# CITY of CLOVIS

AGENDA • CITY COUNCIL MEETING

Council Chamber, 1033 Fifth Street, Clovis, CA 93612 (559) 324-2060
www.cityofclovis.com

December 16, 2024 6:00 PM Council Chamber

In compliance with the Americans with Disabilities Act, if you need special assistance to access the City Council Chamber to participate at this meeting, please contact the City Clerk or General Services Director at (559) 324-2060 (TTY – 711). Notification 48 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to the Council Chamber.

The Clovis City Council meetings are open to the public at the physical address listed above. There are numerous ways to participate in the City Council meetings: you are able to attend in person; you may submit written comments as described below; and you may view the meeting which is webcast and accessed at www.cityofclovis.com/agendas.

**Written Comments**

- Members of the public are encouraged to submit written comments at: www.cityofclovis.com/agendas at least two (2) hours before the meeting (4:00 p.m.). You will be prompted to provide:
  - Council Meeting Date
  - Item Number
  - Name
  - Email
  - Comment
- Please submit a separate form for each item you are commenting on.

SCAN ME

- A copy of your written comment will be provided to the City Council noting the item number. If you wish to make a verbal comment, please see instructions below.
- Please be aware that any written comments received that do not specify a particular agenda item will be marked for the general public comment portion of the agenda.
- If a written comment is received after 4:00 p.m. on the day of the meeting, efforts will be made to provide the comment to the City Council during the meeting. However, staff cannot guarantee that written comments received after 4:00 p.m. will be provided to City Council during the meeting. All written comments received prior to the end of the meeting will be made part of the record of proceedings.

**CAMPAIGN CONTRIBUTION PROHIBITIONS AND MANDATORY DISCLOSURE -** Pursuant to Government Code section 84308, a Councilmember shall not accept, solicit, or direct a campaign contribution of more than $250 from any party or their agent, or from any participant or their agent, while a proceeding involving a license, permit, contract, or other entitlement for use is pending before the City or for 12 months after a final decision is rendered in that proceeding. Any Councilmember who has received a campaign contribution of more than $250 within the preceding 12 months from a party or their agent, or from a participant or their agent, must disclose that fact on the record of the proceeding and shall not make, participate in making, or in any way attempt to use their official position to influence the decision.

Pursuant to Government Code section 84308(e), any party to a covered proceeding before the City Council is required to disclose on the record of the proceeding any campaign contribution, including aggregated contributions, of more than $250 made within the preceding 12 months by the party or their agent to any Councilmember. The disclosure shall be made as required by Government Code Section 84308(e)(1) and 2 CCR Section 18438.8. No party or their agent, and no participant or their agent, shall make a campaign contribution of more than $250 to any Councilmember during the covered proceeding or for 12 months after a final decision is made in that proceeding. The foregoing statements do not constitute legal advice, and parties and participants are urged to consult with their own legal counsel regarding the applicable requirements of the law.

**CALL TO ORDER**

**FLAG SALUTE - Councilmember Pearce**

**ROLL CALL**

**PUBLIC COMMENTS -** This is an opportunity for the members of the public to address the City Council on any matter within the City Council's jurisdiction that is not listed on the Agenda. In order for everyone to be heard, please limit your comments to 3 minutes or less, or 10 minutes per topic. Anyone wishing to be placed on the Agenda for a specific topic should contact the City Manager's office and submit correspondence at least 10 days before the desired date of appearance.

**CONSENT CALENDAR -** Items considered routine in nature are to be placed upon the Consent Calendar. They will all be considered and voted upon in one vote as one item unless a Councilmember requests individual consideration. A Councilmember's vote in favor of the Consent Calendar is considered and recorded as a separate affirmative vote in favor of each action listed. Motions in favor of adoption of the Consent Calendar are deemed to include a motion to waive the reading of any ordinance or resolution on the Consent Calendar. For adoption of ordinances, only those that have received a unanimous vote upon introduction are considered Consent items.

1. Administration - Approval - Minutes from the December 9, 2024, Council Meeting.
2. Finance – Receive and File – Status Report of Community Facilities District 2004-1 Revenues and Expenditures.
3. Finance - Approval – Res. 24-___, Approving the submittal of the 2024-2025 Transportation Funding Claim to the Fresno Council of Governments.
4. Finance - Approval of various actions related to Measure Y, a general 1.0% transactions and use tax ballot measure approved by voters at the November 5, 2024, Municipal Election; (A) Approval - Res. 24-___, A Resolution of the Clovis City Council authorizing the City Manager to execute agreements with the California Department of

Tax and Fee Administration (CDTFA); and (B) Approval - Res. 24-___, A Resolution of the Clovis City Council authorizing designated City representatives to examine confidential tax records for Measure Y Transactions and Use Tax.

5. Planning and Development Services - Approval – Res. 24-___, Annexation of Miscellaneous Properties to the Landscape Maintenance District No. 1.

6. Planning and Development Services – Approval – Bid Award for CIP 24-06, New Bus Stops: B2 to Cervantes Landscape Services, Inc., in the amount of $167,172.00; and authorize the City Manager to execute the contract on behalf of the City.

7. Planning and Development Services – Approval – Res. 24-115A, A Resolution of the Clovis City Council: Amending Resolution 24-115 to include an additional finding necessary to approve the adoption of the City of Clovis Sixth Cycle Housing Element, and authorizing staff to submit the Housing Element to the California Department of Housing and Community Development.

8. Public Utilities – Approval – Waive Formal Bidding Requirements and Authorize the Purchase of Six (6) 2025 Dodge Durango Police Department Patrol Vehicles from National Auto Fleet Group Using the Sourcewell Purchasing Contract in the Total Amount of $383,195.40; and Approval – Res. 24-___, Amending the 2024-2025 Fleet Capital Acquisition Budget to Allocate $190,000 of Funds for the Purchase of Two (2) 2025 Dodge Durango Police Department Patrol Vehicles.

9. Public Utilities – Approval – Waive Formal Bidding Requirements and Authorize the Purchase of One (1) Vactor 2112-18 Sewer Cleaning Truck from Haaker Equipment Company Using the Sourcewell Cooperative Purchasing Contract in the Amount of $702,379.53; and Approval – Res. 24-___, Amending the 2024-2025 Sewer Enterprise Budget to Allocate $210,000 of Additional Funds for the Purchase of a Sewer Cleaning Truck.

10. Public Utilities – Approval – Waive Formal Bidding Requirements and Authorize the Purchase of One (1) 2026 Autocar Frontload Refuse Truck from Affinity Truck Center Using the Sourcewell Cooperative Purchasing Contract in the Amount of $436,737.73.

**PRESENTATIONS/PROCLAMATIONS**

11. Presentation of Proclamation honoring City Manager John Holt upon his retirement and commending him for 25 years of service to the Clovis Community.

**ADMINISTRATIVE ITEMS -** Administrative Items are matters on the regular City Council Agenda other than Public Hearings.

12. Consider Approval – City Manager Employment Agreement with Andrew Haussler, and Appointment of Andrew Haussler as City Manager effective January 1, 2025.

    **Staff:** Amy Hance, General Services Director
    **Recommendation:** Approve

13. Consider Update on the Request from the Building Industry Association of Fresno/Madera Counties, Inc. regarding the City of Clovis Major Water Facilities Fees from the August 5, 2024, Council Meeting to return within 120 days.

    **Staff:** Andrew Haussler, Assistant City Manager
    **Recommendation:** Consider Update and Provide Direction

14. Receive and File - Information from Second Public Hearing in City's Transition to District-Based Elections.

**Staff:** Briana Parra, City Clerk
**Recommendation:** Receive and File

**PUBLIC HEARINGS -** A public hearing is an open consideration within a regular or special meeting of the City Council, for which special notice has been given and may be required. When a public hearing is continued, noticing of the adjourned item is required as per Government Code 54955.1.

15. Consider various items associated with ±37.92 acres of land located at the southeast corner of the N. Peach Avenue alignment and Behymer Avenue. DeYoung Properties and Gary Yamamoto, owners; DeYoung Properties, applicant; Juli Kutka, representative.

a. Consider Approval - Res. 24-__, A resolution of the City Council adopting an environmental finding of a Mitigated Negative Declaration and a Mitigation Monitoring and Reporting Program for Reorganization 311, Prezone 2024-006, Vesting Tentative Tract Map 6482, and Planned Development Permit 2024-002.

b. Consider Introduction - Ord. 24-___, R2024-006, An ordinance of the City Council approving a request to prezone the properties within the annexation area from the Fresno County AE-20 Zone District to the Clovis R-1-PRD Zone District.

c. Consider Approval - Res. 24-___, TM6482, A resolution of the City Council approving a vesting tentative tract map for a 266-lot single-family planned residential development.

d. Consider Approval - Res. 24-___, PDP2024-002, A resolution of the City Council approving a planned development permit for a 266-lot single-family residential development.

e. Consider Approval - Res. 24-___, RO311, A resolution of the City Council approving application for the Annexation of the Territory known as the Peach-Behymer Southeast Reorganization area (±37.92 acres).

**Staff:** Marissa Parker, Assistant Planner
**Recommendation:** Approve

16. Consider various items associated with approximately 201 acres on the east side of N. Minnewawa Avenue, between East Behymer and Shepherd Avenues. Multiple, owners; Lennar Homes, applicant; Yamabe & Horn Engineering Inc., representative.

a. Consider Approval - Res. 24-__, A resolution of the City Council adopting an environmental finding of a mitigated negative declaration and a mitigation monitoring and reporting program for Reorganization 310, Prezone 2024-005, Vesting Tentative Tract Map 6375, and Planned Development Permit 2024-001.

b. Consider Introduction - Ord. 24-__, R2024-005, An ordinance of the City Council approving a request to prezone property within the annexation area from the Fresno County AE20 Zone District to the Clovis C-1, R-1-PRD, O, and P-C-C Zone Districts.

c. Consider Approval - Res. 24-__, TM6375, A resolution of the City Council approving a vesting tentative tract map for a 385-lot single-family planned residential development on approximately 58.9 acres of land.

d. Consider Approval - Res. 24-__, PDP2024-001, A resolution of the City Council approving a planned development permit for a 385-lot single-family residential development.

e. Consider Approval - Res. 24-___, RO310, A resolution of the City Council approving application for the annexation of the territory known as the Shepherd-Minnewawa Northeast Reorganization area (approximately 201 acres).

**Staff**: Liz Salazar, Assistant Planner
**Recommendation**: Approve

17. Consider various items associated with ±14.57 acres of land located on the south side of E. Perrin Avenue, between N. Minnewawa Avenue and west of the N. Clovis Avenue alignment. David Williams, John & Tricia Zimmerer, Merrill Michael, Misha Kay Wight Miller, and Jon Kurisu owners; Bonadelle Homes, applicant; Scott Harbour, representative.

a. Consider Approval - Res. 24-__, A resolution of the City Council adopting an environmental finding of a Mitigated Negative Declaration and a Mitigation Monitoring and Reporting Program for Vesting Tentative Tract Map 6467 and Planned Development Permit 2024-003.

b. Consider Approval - Res. 24-__, TM6467, A resolution of the City Council approving a vesting tentative tract map for a 162-lot single-family planned residential development.

c. Consider Approval - Res. 24-__, PDP2024-003, A resolution of the City Council approving a planned development permit for a 162-lot single-family residential development.

**Staff:** Marissa Parker, Assistant Planner
**Recommendation:** Approve

**CITY MANAGER COMMENTS**

**COUNCIL COMMENTS**

**CLOSED SESSION -** A “closed door” (not public) City Council meeting, allowed by State law, for consideration of pending legal matters and certain matters related to personnel and real estate transactions.

18. Government Code section 54956.9(d)(2)
CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION
Significant exposure to litigation
One potential case

## RECONVENE INTO OPEN SESSION AND REPORT FROM CLOSED SESSION

## ADJOURNMENT

## FUTURE MEETINGS

Regular City Council Meetings are held at 6:00 P.M. in the Council Chamber. The following are future meeting dates:

Jan. 6, 2025 (Mon.)
Jan. 13, 2025 (Mon.)
Jan. 21, 2025 (Tue)
Feb. 4, 2025 (Tue.)

# CLOVIS CITY COUNCIL MEETING

**December 9, 2024** **6:00 P.M.** **Council Chamber**

Meeting called to order by Mayor Ashbeck **at 6:00**
Flag Salute led by Councilmember Bessinger

Roll Call: Present: Councilmembers, Basgall, Bessinger, Mouanoutoua, Pearce
Mayor Ashbeck

## PUBLIC COMMENTS – 6:00

Tammy Anderson, resident, expressed concerns about the harshness of LED streetlights affecting her home and strongly opposed the proposed historic district due to a desire for less government regulation.

Steven Trevino, resident, raised concerns about the lack of lighting and poor sound quality during the recent Christmas Tree Lighting event, suggested the use of extra funds to improve lighting, seating, and sound in public gathering area to enhance safety and accessibility.

Eric Rollins, resident, expressed concerns about the transition to district-based elections, advocating for a rotating mayor position to ensure all councilmembers remain accountable to the entire community, not just their districts.

Josh Babcock, representing Fresno County Supervisor Nathan Magsig's office, introduced himself as the new field representative.

## CONSENT CALENDAR – 6:10

Upon call, there was no public comment.

Motion by Councilmember Bessinger, seconded by Councilmember Mouanoutoua, that the items on the Consent Calendar be approved. Motion carried by unanimous vote.

1. Administration - Approval - Minutes from the December 2, 2024, Council Meeting.
2. Administration – Adopt - **Ord. 24-18**, R2024-004, A request to amend the development standards and preliminary development plan for the Tuscan Village Planned Commercial Center, associated with approximately 33 acres of land located at the northwest corner of Sierra and N. Clovis Avenues. Blanchimont Corner LLC et al., owners; Legacy Realty and Development, applicant; Roger Hurtado, representative. (Vote: 5-0)
3. Police – Approval – Waive the City's formal bidding requirements and authorize the sole-source purchase of a Video Wall Management System for the Real Time Information Center through Wildfire Technology Integration for a total purchase of $700,088.00.

**COUNCIL ITEMS – 6:10**

6:10 ITEM 4 - CONSIDER VARIOUS ACTIONS RELATED TO THE NOVEMBER 5, 2024, CLOVIS GENERAL MUNICIPAL ELECTION FOR CLOVIS CITY COUNCIL AND MEASURE Y (SALES TAX):

Upon call, there was no public comment.

4A - CONSIDER APPROVAL – **RES. 24-137**, DECLARING THE RESULTS OF THE NOVEMBER 5, 2024, CLOVIS GENERAL MUNICIPAL ELECTION FOR CLOVIS CITY COUNCIL AND MEASURE Y.

Motion for approval by Councilmember Basgall, seconded by Councilmember Pearce. Motion carried by unanimous vote.

4B - OATH OF OFFICE: COUNCILMEMBERS ASHBECK AND MOUANOUTOUA.

City Clerk Parra administered the oath of office to Councilmember Ashbeck and Councilmember Mouanoutoua.

6:15 ITEM 5 - CONSIDER VARIOUS ACTIONS RELATED TO THE CITY COUNCIL REORGANIZATION:

Upon call, there was no public comment.

5A - ELECTION OF MAYOR BY CITY COUNCIL – MAYOR ASHBECK

Motion by Councilmember Pearce seconded by Councilmember Bessinger to appoint Mayor Pro Tem Mouanoutoua as Mayor. Motion carried by unanimous vote.

5B - ELECTION OF MAYOR PRO TEM BY CITY COUNCIL – MAYOR

Upon call, there was no public comment.

Motion by Councilmember Ashbeck, seconded by Councilmember Basgall, to appoint Councilmember Bessinger as Mayor Pro Tem.

Councilmember Bessinger respectfully declined the nomination as Mayor Pro Tem, and Councilmember Ashbeck withdrew the motion.

Motion by Councilmember Bessinger, seconded by Mayor Mouanoutoua, to appoint Councilmember Pearce as Mayor Pro Tem. Motion carried by unanimous vote.

5C - PRESENTATION OF GAVEL TO OUTGOING MAYOR ASHBECK – MAYOR

Mayor Mouanoutoua presented the gavel to former Mayor Ashbeck.

5D - COUNCIL COMMENTS / INTRODUCTIONS BY MAYOR AND COUNCILMEMBERS

Mayor Mouanoutoua expressed gratitude for the opportunity to serve as Mayor to the City of Clovis and honored the legacy of past leaders.

**RECESS FOR PHOTOS AND REFRESHMENTS (City Hall Foyer)**

**ADMINISTRATIVE ITEMS – 7:06**

7:06 ITEM 6 - WORKSHOP TO BEGIN DISCUSSION OF HOW CITY GROWTH IMPACTS COUNTY ROADS AND JOINT EFFORTS TO IMPROVE SAFETY.

In attendance: City of Clovis – Councilmember Basgall, Councilmember Bessinger, Councilmember Ashbeck, Mayor Pro Tem Pearce, Mayor Mouanoutoua, City Manager Holt, Assistant City Manager Haussler, and City Engineer Avery. County of Fresno: Chairman Nathan Magsig, Board of Supervisor Steve Brandau, Public Works and Planning Assistant Director Bernard Jimenez, County of Fresno Augustine Ramirez, Senior Plannger Hector Luna, Program Manager Erin Haagenson, and Vice President Ruta Jariwala. Clovis Unified School District: Assistant Superintendent Denver Stairs, Associate Superintendent Michael Johnston and Director of Transportation Steven Mirelez.

Kathy Bailey, Mother of Kaiden Bailey, addressed the tragic circumstances surrounding her son's death, advocating for justice, further investigation, and safety improvements on local roads.

Anna Lazo, Mother of Sandro Lazo, addressed her commitment to pressure the City to prevent similar tragedies from happening to other parents

William Lazo, Father of Sandro Lazo, discussed the unsafe road conditions of Fowler and Perrin, advocated for safety improvements, including a stop sign at the intersection.

Michelle Leung, resident, expressed her concern for safety on county roads and praised the City and council for taking steps toward addressing traffic and safety issues after years of concern.

Jenni Krens, resident, shared her concerns about the high speeds of traffic on the unimproved county road near her home between Locan and DeWolf and highlighted the danger posed to bicyclists and the lack of speed limits on the road.

The discussion focused on the implementation of future traffic signals in areas such as Shepard, Fowler, Behymer, and Perrin, with short-term traffic studies planned for these

intersections. The discussion included immediate safety concerns, including traffic calming measures on Sunnyside Avenue and alternatives to roundabouts, were also addressed. A strong emphasis was placed on the need for collaboration between the City, County, and key stakeholders, including the Clovis School District and utility companies, to improve road safety and traffic management. Additionally, there was a request for a standing agenda item to provide regular updates, either monthly or quarterly, and the possibility of revising the tax-sharing agreement was also discussed.

**RECESS AND RECONVENE AT DAIS - 8:07**

**ADMINISTRATIVE ITEMS – 8:13**

8:13 ITEM 7 - CONSIDER APPROVAL - 2023-24 ANNUAL COMPREHENSIVE FINANCIAL REPORT.

Upon call, there was no public comment

Motion for approval by Councilmember Ashbeck, seconded by Councilmember Pearce. Motion carried by unanimous vote.

**CITY MANAGER COMMENTS – 8:16**
None.

**COUNCIL COMMENTS – 8:16**
There was consensus of the Council to bring back an agenda item regarding safe routes to school, specifically addressing the project on Ashlan across from Reagan Elementary.

**CLOSED** SESSION – 8:21

Upon call, there was no public comment.

ITEM 8 - GOVERNMENT CODE SECTION 54957.6 CONFERENCE WITH LABOR NEGOTIATOR(S) AGENCY DESIGNATED REPRESENTATIVE: CITY ATTORNEY UNREPRESENTED EMPLOYEE: CITY MANAGER

No action taken.

ITEM 9 - GOVERNMENT CODE SECTION 54957 PUBLIC EMPLOYEE APPOINTMENT / EMPLOYMENT TITLE: CITY MANAGER

No action taken.

**RECONVENE INTO OPEN SESSION AND REPORT FROM CLOSED SESSION**

**ADJOURNMENT**

Mayor Mouanoutoua adjourned the meeting of the Council to December 16, 2024.

Meeting adjourned: 9:30 p.m.

_____ _____

Mayor City Clerk

# CITY of CLOVIS

## REPORT TO THE CITY COUNCIL

TO: Mayor and City Council

FROM: Finance Department

DATE: December 16, 2024

SUBJECT: Finance – Receive and File – Status Report of Community Facilities District 2004-1 Revenues and Expenditures.

ATTACHMENTS: None.

**RECOMMENDATION**
That the Council receive and file the report on the status of the Community Facilities District 2004-1 Revenues and Expenditures.

**EXECUTIVE SUMMARY**
In March 2004, the Council approved the formation of Community Facilities District 2004-1 (CFD), which provides funding for public safety operations in new growth areas generally located north of Herndon or east of Locan Avenues. During formation, the Council directed staff to prepare an annual report indicating the amounts received from CFD tax revenues and expenditures applicable to the CFD area.

**BACKGROUND**
Fiscal year 2005-2006 was the first year the City received revenues from the levy of CFD taxes. Any residential parcel located in the CFD with a building permit issued prior to May 1, would be subject to the CFD tax the following fiscal year, payable with their property tax bill.

There were 11,078 parcels assessed in 2023-2024, generating $3,250,000 in special taxes. The per-unit tax for 2023-2024 was $282.32 for single family units and $243.77 for multi-family units. The revenue received is allocated between Police (67%) and Fire (33%) which goes into the Police and Fire department budgets as non-discretionary general fund revenue. The revenue received in 2023-2024 provides funding for approximately 11 Police Officers and 6 Fire Fighters.

Expenditures for public safety services associated with growth in the CFD area for 2023-2024 were $7,371,000. In 2023-2024, CFD tax revenue covered 44% of CFD area expenditures.

| | 2023-2024 | 2022-2023 | 2021-2022 and prior |
|---|---|---|---|
| Expenditures | $7,371,000 | $6,788,000 | $53,285,000 |
| Revenues | $3,250,000 | $2,700,000 | $17,051,000 |

**FISCAL IMPACT**
This report provides a status of the CFD revenue and expenditures attributable to the CFD. The report reflects that the CFD tax revenue is contributing approximately 44% of the total expenditures attributable to the public safety services provided in the CFD.

**REASON FOR RECOMMENDATION**
This annual status report is for information only and no action is required.

**ACTIONS FOLLOWING APPROVAL**
Staff will file the report and copies of the report will be made available to any member of the public who requests a copy.

**CONFLICT OF INTEREST**
None.

Prepared by: Ran Chan, Accountant

Reviewed by: City Manager

# CITY of CLOVIS

REPORT TO THE CITY COUNCIL

TO: Mayor and City Council

FROM: Finance Department

DATE: December 16, 2024

SUBJECT: Finance - Approval – Res. 24-___, Approving the submittal of the 2024-2025 Transportation Funding Claim to the Fresno Council of Governments.

ATTACHMENTS:
1. Res. 24-___, Submission of Transportation Funding Claim Form
2. Transportation Funding Claim for Fiscal Year 2024-2025

**RECOMMENDATION**

That the Council approve a resolution approving the submittal of the 2024-2025 Transportation Funding Claim to the Fresno Council of Governments.

**EXECUTIVE SUMMARY**

Each year the City of Clovis is required to submit an annual transportation claim for the Local Transportation Fund of Fresno County to the Fresno Council of Governments (COG) to receive funds provided through the Transportation Development Act (TDA) of 1971. The claim is prepared in accordance with the City's annual budget. After the TDA claim is adopted by the Resolution of the City Council, the claim is submitted to COG for adoption by Resolution of the COG board. After approval, the City will begin to receive the funds apportioned by COG for the 2024-2025 fiscal year.

**BACKGROUND**

Each year the City files a claim with the Fresno Council of Governments (COG) to receive funds provided through the Transportation Development Act (TDA) of 1971. The claim provides information on the various sources that are used to fund the transit operation and to fund bicycle/pedestrian projects.

The claim is normally based on the current year budget. If circumstances have changed since the budget was prepared, the claim will be based on the best available information.

In order for COG to allocate the TDA funds, the claim needs to be submitted to COG for approval. The claim allocates the available funds based on the final estimated allocation received from COG in May 2024.

**FISCAL IMPACT**
The TDA funds are budgeted in 2024-2025 based upon the final estimated allocation received from COG in May 2024. Approval of the claim by the Council will allow the City to receive the funds.

**REASON FOR RECOMMENDATION**
To allocate the funds in accordance with the 2024-2025 estimates, it is necessary to submit the TDA claim to COG for approval. Approval of the claim by the Council for submittal is required.

**ACTIONS FOLLOWING APPROVAL**
After Council approval, the claim will be filed with COG.

**CONFLICT OF INTEREST**
None.

Prepared by: Jose Cortez, Accounting Supervisor

Reviewed by: City Manager ~~AH~~

**RESOLUTION 24-__**

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS APPROVING SUBMISSION OF THE 2024-2025 TRANSPORTATION FUNDING CLAIM TO THE FRESNO COUNCIL OF GOVERNMENTS**

**WHEREAS,** the City of Clovis is required to submit an annual transportation claim for the Transportation Funding through the Fresno Council of Governments for the fiscal year 2024-2025; and

**WHEREAS**, the Fresno Council of Governments has the authority to review claims and allocate such funds in accordance with the Transportation Development Act of 1971 and Chapter 3 of Title 30 of the California Administrative Code; and

**WHEREAS**, the City of Clovis has approved the 2024-2025 Budget for expenditures for 2024-2025; and

**WHEREAS,** the Transportation Act of 1971 requires certain findings and declarations regarding transit needs and conformance with Article 8, Chapter 1400, Statutes 1971 and applicable rules and regulations.

**NOW, THEREFORE, BE IT RESOLVED**, that the City of Clovis hereby authorizes submittal of its Claim for Local Transportation Funds, as Attachment 2, in the amount of $21,705,860 for purposes allowed under Articles 3, 4, 4.5, and 8 of the Transportation Development Act of 1971.

* * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED:

_____ Mayor

_____ City Clerk

## ATTACHMENT 1

Enter Date: 11/29/2024 Claimant Name: City of Clovis

# TRANSPORTATION FUNDING CLAIM FOR FISCAL YEAR: 2024/25

Instructions: Please note that each page of this claim is a separate worksheet, please click through all tabs and complete. Also note that light yellow fields require an entry if applicable, light grey fields contain formulas that will automatically calculate based on corresponding entries. A date and claimant name field is at the top of the first page, and automatically repeats on following pages, (date should be formatted 00/00/0000)

**When completed, please print, sign and send signed original via mail to:**
**Les Beshears, Director of Finance, Fresno Council of Governments, 2035 Tulare Street, Suite 201, Fresno, CA 93721**

| | |
|---|---|
| From: Applicant: | City of Clovis |
| Address: | 1033 Fifth Street |
| City/State/Zip: | Clovis, CA 93612 |
| Contact Phone/email: | Jay Schengel / 559-324-2113 |

*This applicant is an eligible claimant pursuant to Section 99203 of the Public Utilities Code and certifies that the following transportation funds are available to be claimed:*

**Local Transportation Fund**

| | |
|---|---|
| Apportionment: | $ 7,287,456 |
| Unexpended, Held by Claimant: | $ 12,695,608 |
| County 4.5 Contribution: | $ 17,555 |
| County Contract for Tarpey Roundup: | $ 61,006 |

**State Transit Assistance Fund**

| | |
|---|---|
| Estimate: | $ 1,644,235 |
| Other Agency: | |

**Other**

| | |
|---|---|
| Audit Exception/Impairment (required General Fund Payback): | |
| Other: | |

| | TOTAL |
|---|---|
| Twenty-One Million, Seven Hundred Five Thousand, Eight Hundred Sixty | $ 21,705,860 |

*spell out total amount in above cell*

**for the purposes and respective amounts specified in the attached claim be drawn from the Local Transportation Fund and State Transit Assistance Fund.**

Please print and sign after completing form

| | |
|---|---|
| Authorized Signature: | |
| Name/Title: | John Holt, City Manager |
| Date: | 12/16/2024 |

Fresno Council of Governments
2035 Tulare St., Ste. 201 tel 559-233-4148
Fresno, California 93721 fax 559-233-9645
www.fresnocog.org

**ATTACHMENT 2**

Enter Date: 11/29/2024 Claimant Name: City of Clovis

# TRANSPORTATION FUNDING CLAIM DETAIL FOR FISCAL YEAR: 2024/25

| PURPOSE | | AMOUNT | SUBTOTAL |
|---|---|---|---|
| 1. Bicycle & Pedestrian Facilities: | | | |
| | Article 3: | $ 145,799 | |
| | Article 8a: | | |
| | Audit Exceptions (General Fund Payback); | | |
| | Unexpended Funds, Held by Claimant: | | |
| | | | $ 145,799 |
| 2. Regional Transportation Planning: | | $ 203,608 | $ 203,608 |
| 3. Public Transportation | Article 4: | $6,250,723 | |
| | Article 8c: | | |
| | Tarpey Roundup County Contract: | $ 61,006 | |
| | Other Agency: | | |
| | State Transit Assistance Funds (STA): | $ 1,644,235 | |
| | Audit Exceptions (General Fund Payback): | | |
| | Unexpended Funds, Held by Claimant: | $ 12,695,608 | |
| | | | $20,651,572 |
| 4. Community Transit Service CTSA, Article 4.5: | | $ 372,271 | $ 372,271 |
| 5. To Be Claimed By: | | | |
| | FAX Contract: | $ 332,610 | |
| | | | $ 332,610 |

| | |
|---|---|
| GRAND TOTAL | $ 21,705,860 |
| Claim Total Must Agree With Total on First Page | $ 21,705,860 |
| Minus All Unexpended Funds not used for Transit Claims | $ 12,695,608 |
| GRAND TOTAL PAYABLE TO CLAIMANT | $ 9,010,252 |

*Allocation instructions and payment by the Fresno County Auditor-Controller to the applicant is subject to such monies being available for distribution, and to the provisions that such monies will be used only in accordance with the rules and regulations of the Transportation Development Act.*

Enter Date: 11/29/2024 Claimant Name: City of Clovis

# BICYCLE AND PEDESTRIAN FACILITIES FOR FISCAL YEAR: 2024/25

Two percent (2%) of the claimant's Local Transportation Fund apportionment must be spent on bicycle and pedestrian facilities (PUC 99233.3 and 99234); such claims are to be filed as Article 3. Claims for projects in excess of 2% may be filed as Article 8a (PUC 99400(a)). If other funding is to be used with Local Transportation Funds to implement projects, such funding should be shown on the claim form.

| PROJECT TITLE & BRIEF DESCRIPTION | PROJECT COST |
|---|---|
| **Various Bicycle & Pedestrian Facilities throughout the claimant's jurisdiction:** | $ 145,799.00 |
| *AND/OR:* | |
| **Other - describe briefly if applicable:** | $ - |
| **Other - describe briefly if applicable:** | $ - |
| **Other - describe briefly if applicable:** | $ - |
| **TOTAL PROJECT COSTS** | $ 145,799.00 |

Enter Date: 11/29/2024 Claimant Name: Ci

# PUBLIC AND SPECIALIZED TRANSPORTATION SERVICE CLAIM FOR OPERATING AND CAPITAL EXPENSES FY: 2024/25

## GENERAL TRANSPORTATION SERVICE PROPOSED 2024/25

*(Information needed per PUC 99266, which states no moneys may be allocated in excess of 15% above preceding year unless claim is accompanied by supporting documentation)*

| | PROJECT COSTS | TOTALS |
|---|---|---|
| TOTAL PROJECT COSTS | $ 5,530,781.00 | |
| *Prior Year* | $ 5,471,168.00 | |
| *Percentage Change* | 1% | |
| | *more than prior year* | |

| Revenue Source & Amount | Operating | Capital | Total |
|---|---|---|---|
| LTF Article 4: | $ 1,655,892.00 | | $ 1,655,892.00 |
| LTF Article 4.5 or 8c: | | | $ - |
| STA: | | $ 750,000.00 | $ 750,000.00 |
| Fares: | $ 40,000.00 | *N/A* | $ 40,000.00 |
| Local Support: | $ 889,157.00 | *N/A* | $ 889,157.00 |
| Fed/State Grants: | $ 1,633,000.00 | | $ 1,633,000.00 |
| Measure C: | $ 390,732.00 | $ 135,000.00 | $ 525,732.00 |
| Interest: | $ 37,000.00 | | $ 37,000.00 |
| Unexpended Funds Held By Claimant: | | | $ - |
| Audit Exception - General Payback Fund: | | | $ - |
| SUB-TOTALS | $ 4,645,781.00 | $ 885,000.00 | $ 5,530,781.00 |

## ELDERLY/HANDICAPPED SERVICE PROPOSED 2024/25

*(Information needed per PUC 99266, which states no moneys may be allocated in excess of 15% above preceding year unless claim is accompanied by supporting documentation)*

| | PROJECT COSTS | TOTALS |
|---|---|---|
| TOTAL PROJECT COSTS | $ 5,951,122.00 | |
| *Prior Year* | $ 6,025,881.00 | |
| *Percentage Change* | -1% | |
| | *less than prior year* | |

| Revenue Source & Amount | Operating | Capital | Total |
|---|---|---|---|
| LTF Article 4: | $ 2,950,003.00 | | $ 2,950,003.00 |
| Tarpey Roundup: | $ 61,006.00 | | $ 61,006.00 |
| STA: | | $ 750,000.00 | $ 750,000.00 |
| Fares: | | *N/A* | $ - |
| Local Support: | $ 520,113.00 | *N/A* | $ 520,113.00 |
| Fed/State Grants: | $ 1,633,000.00 | | $ 1,633,000.00 |
| Measure C: | | | $ - |
| Interest: | $ 37,000.00 | | $ 37,000.00 |
| Unexpended Funds Held By Claimant: | | | $ - |
| Audit Exception - General Payback Fund: | | | $ - |
| SUB-TOTALS | $ 5,201,122.00 | $ 750,000.00 | $ 5,951,122.00 |

## CONSOLIDATED TRANSIT SERVICE AGENCY PROPOSED 2024/25

*(Information needed per PUC 99266, which states no moneys may be allocated in excess of 15% above preceding year unless claim is accompanied by supporting documentation)*

| | PROJECT COSTS | TOTALS |
|---|---|---|
| TOTAL PROJECT COSTS | $ 827,269.00 | |
| *Prior Year* | $ 795,260.00 | |
| *Percentage Change* | 4% | |
| | *more than prior year* | |

| Revenue Source & Amount | Operating | Capital | Total |
|---|---|---|---|
| LTF Article 4.5: | $ 372,271.00 | | $ 372,271.00 |
| LTF Article 8c: | | | $ - |
| STA: | | | $ - |
| Fares: | | *N/A* | $ - |
| Local Support: | $ 454,998.00 | *N/A* | $ 454,998.00 |
| Fed/State Grants: | | | $ - |
| Other - describe briefly if applicable: | | | $ - |
| Other - describe briefly if applicable: | | | $ - |
| Unexpended Funds Held By Claimant: | | | $ - |
| Audit Exception - General Payback Fund: | | | $ - |
| SUB-TOTALS | $ 827,269.00 | $ - | $ 827,269.00 |

| GRAND TOTALS: | OPERATING | CAPITAL | TOTAL |
|---|---|---|---|
| | $ 10,674,172.00 | $ 1,635,000.00 | $ 12,309,172.00 |

Enter Date: 11/29/2024 Claimant Name: City of Clovis

# PUBLIC AND SPECIALIZED TRANSPORTATION SERVICE FAREBOX CALCULATION FOR FISCAL YEAR: 2024/25

## REQUIRED OPERATING/FAREBOX CALCULATIONS

**General Transportation Service:**

| | | | Operating Expenses: | |
|---|---|---|---|---|
| 1. Total Operating Expenses Minus Exclusions | Amount Excluded | | | $ 4,645,781.00 |
| 2. Farebox Revenues | | | | $ 4,645,781.00 |
| 3. Other Local Support | | | | $ 40,000.00 |
| 4. Total Local Support (Adds Lines 2 + 3) | | | | $ 889,157.00 |
| 5. Farebox Revenue/Operating Expense Ratio (Line 2 Divided By Line 1) | | | | $ 929,157.00 |
| 6. Required Minimum Ratio Verification: **Enter 1 for Urban, 2 for Rural** | | 1 | | 1% |
| 7. Total Local Support/Operating Expense Ratio (Line 4 Divided By Line 1) | | | | 20% |
| 8. Required Minimum Ratio Criteria: | | | ***Meets Minimum Requirements*** | 20% |
| URBAN 20% | | | | 20% |
| RURAL 10% | | | | |

**Elderly/Handicapped Service:**

| | | | Operating Expenses: | |
|---|---|---|---|---|
| 1. Total Operating Expenses Minus Exclusions | Amount Excluded | | | $ 5,201,122.00 |
| 2. Farebox Revenues | | | | $ 5,201,122.00 |
| 3. Other Local Support | | | | $ - |
| 4. Total Local Support (Adds Lines 2 + 3) | | | | $ 520,113.00 |
| 5. Farebox Revenue/Operating Expense Ratio (Line 2 Divided By Line 1) | | | | $ 520,113.00 |
| 6. Required Minimum Ratio Verification: | | | | 0% |
| 7. Total Local Support/Operating Expense Ratio (Line 4 Divided By Line 1) | | | ***Meets Minimum Requirements*** | 10% |
| 8. Required Minimum Ratio Criteria: | | | | 10% |
| 10% | | | | 10% |

**Consolidated Transportation Service Agency:**

| | | | Operating Expenses: | |
|---|---|---|---|---|
| 1. Total Operating Expenses Minus Exclusions | Amount Excluded | | | $ 827,269.00 |
| 2. Farebox Revenues | | | | $ 827,269.00 |
| 3. Other Local Support | | | | $ - |
| 4. Total Local Support (Adds Lines 2 + 3) | | | | $ 454,998.00 |
| 5. Farebox Revenue/Operating Expense Ratio (Line 2 Divided By Line 1) | | | | $ 454,998.00 |
| 6. Required Minimum Ratio Verification: | | | | 0% |
| 7. Total Local Support/Operating Expense Ratio (Line 4 Divided By Line 1) | | | | 55% |
| 8. Required Minimum Ratio Criteria: | | | ***Meets Minimum Requirements*** | 55% |
| Fares | 10% | | | 55% |
| Other Local Support | 45% | | | |

**SUMMARY TOTALS:**

| | | | |
|---|---|---|---|
| | | | $ 10,674,172.00 |
| | | Total Operating Expenses: | $ 10,674,172.00 |
| 1. Total ***OF ALL*** Operating Expenses ***PLUS*** Exclusions | Total Amount Excluded: | $ - | $ 10,674,172.00 |

| | |
|---|---|
| Must Agree With TOTAL, Project Detail Operator Tab: | $ 1,635,000.00 |
| 2. Total of All Capital Projects: | $ 1,635,000.00 |
| Must Agree With CAPITAL PROJECTS, Project Detail Operator Tab: | $ 12,309,172.00 |
| 3. GRAND TOTAL: | $ 12,309,172.00 |

Enter Date: 11/29/2024 Claimant Name: City of Clovis

## CONTINGENCY PROJECT LISTING FOR FISCAL YEAR: 2024/25

***Should additional Local Transportation Fund or State Transit Assistance Fund monies be made available during the current fiscal year, they are hereby also claimed for the following purposes:***

*CHECK ALL THAT APPLY (Enter "X" in yellow box)*

| BICYCLE AND PEDESTRIAN FACILITIES | PUBLIC TRANSPORTATION |
|---|---|
| [X] *Article 3* | [X] *Article 4* |

## SUPPLEMENTAL INFORMATION REQUIRED OF TRANSIT CLAIMANTS (CCR 6632)

*ATTACHED TO THIS CLAIM ARE SUBMITTED THE FOLLOWING DOCUMENTS:*
*(initial yellow box all that apply)*

- [ ] **Budget or proposed budget for the 2024/25 fiscal year.**
- [ ] **Statement for prior year revenues and expenditures (projections acceptable).**
- [ ] **California Highway Patrol Certification pursuant to PUC 99251 (no claim may be approved unless accompanied by this certification). Date on this certification must be within 13 months of the proposed claim approval date.**

## STANDARD ASSURANCES FOR TRANSIT CLAIMANTS

*CLAIMANT ASSURANCES: (initial yellow box all that apply)*

- [ ] **A.** Claimant certifies that it has submitted a satisfactory, independent fiscal audit, with required certification statement, to the RTPA and to the State Controller, pursuant to PUC 99245 and 21 Cal. Code of Regulations Section 6664 for the prior fiscal year (project year minus two). Claimant assures that this audit requirement will be completed for the current fiscal year (project year minus one).
- [ ] **B.** Claimant certifies that it has submitted a State Controller Report, in conformance with the uniform system of accounts and records, to the RTPA, and to the State Controller, pursuant to PUC 99243, for the prior year (project year minus two). Beginning with the 1979–80 fiscal year, claimant assures that this report will be audited by an independent CPA. Claimant assures that this report will be completed for the current fiscal year (project year minus one)
- [ ] **C.** Claimant certifies in accordance with PUC Section 99314.5(b) that it is not precluded by any contract entered into on or after June 28, 1979, from employing part-time drivers or contracting with common carriers of persons operating under a franchise or license. Claimant further certifies that no person who was a full-time employee on June 28, 1979, shall have his or her employment terminated or his or her regular hours of employment, excluding overtime, reduced by the operator as a result of it employing part-time drivers or contracting with such common carriers.

**D. Claimant filing claim pursuant to PUC Section 99260 certifies that:**
*(check one by entering "X" in yellow cell):*

- [X] **1.** the current cost of its retirement system is fully funded with respect to the officers and employees of its public transportation system (PUC Section 99271a); or
- [ ] **2.** the operator is implementing a plan approved by the transportation planning agency which will fully fund the retirement system for such officers and employees within 40 years (PUC Section 99271a); or
- [ ] **3.** the operator has a private pension plan which sets aside and invests on a current basis funds sufficient to provide for the payment of future pension benefits and which is fully compliant with the requirements stated in PUC Sections 99272 and 99273.

- [ ] **E.** Claimant certifies that it is in compliance with PUC Section 99264 that it does not routinely staff, with two or more persons, a vehicle for public transportation purposes designed to be operated by one person.
- [ ] **F.** Claimant certifies that it is making full use of federal funds available under the Urban Mass Transportation Act of 1964, as amended in accordance with Section 6754(a)(3).
- [ ] **G.** Claimant certifies that this is in compliance with PUC Section 99155 that if it offers reduced fares to seniors, the same reduced rate is offered to disabled persons, handicapped persons, and disabled veterans and it honors the federal Medicare card for identification to receive reduced fares.
- [ ] **H.** Claimant certifies that it is in compliance with PUC Section 99155.5 regarding dial-a-ride and paratransit services being accessible to handicapped persons and that the service is provided to persons without regard to vehicle ownership and place of residence.

**The undersigned hereby certifies that the above statements are true and correct.**
Please print and sign after completing form

Authorized Signature: _____ Name/Title: John Holt, City Manager
Date: 12/16/2024

# CITY of CLOVIS

## REPORT TO THE CITY COUNCIL

TO: Mayor and City Council

FROM: Finance Department

DATE: December 16, 2024

SUBJECT: Finance - Approval of various actions related to Measure Y, a general 1.0% transactions and use tax ballot measure approved by voters at the November 5, 2024, Municipal Election; (A) Approval - Res. 24-___, A Resolution of the Clovis City Council authorizing the City Manager to execute agreements with the California Department of Tax and Fee Administration (CDTFA); and (B) Approval - Res. 24-___, A Resolution of the Clovis City Council authorizing designated City representatives to examine confidential tax records for Measure Y Transactions and Use Tax.

ATTACHMENTS: 1. Res. 24-___, CDTFA Preparatory Agreement
2. Res. 24-___, CDTFA Administrative Agreement

**RECOMMENDATION**

Staff recommends the City Council approve Res. 24-___, A Resolution of the Clovis City Council authorizing the City Manager to execute agreements with the California Department of Tax and Administration (CDTFA) and City Council approve Res. 24-___, A Resolution of the Clovis City Council authorizing designated City representatives to examine confidential tax records for Measure Y Transactions and Use Tax.

**EXECUTIVE SUMMARY**

On November 5, 2024, Clovis voters approved Measure Y, a ballot measure proposing a 1.0% Transactions and Use Tax in the City of Clovis. The tax is a general tax generating additional revenue to be used for any lawful purpose, including but not limited to maintaining public safety services including emergency response times, police protection, neighborhood services, anti-gang and anti-drug programs; maintaining and repairing infrastructure; and providing other City services. The City Council must now adopt two resolutions as required by the CDTFA so that the tax can be fully implemented and administered: one authorizing the City Manager to execute agreements with the CDTFA as required for the CDTFA to fully perform the administrative services for the tax, and one authorizing designated City representatives to examine confidential tax records for the Measure Y Transactions and Use Tax.

**BACKGROUND**

On November 5, 2024, the residents of the City of Clovis approved Measure Y, which established a local Transactions and Use Tax of 1.0%. The tax will be administered and collected by the CDTFA and remitted to the City of Clovis as a general tax, with revenue available to maintain public safety services including emergency response times, police protection, neighborhood services, anti-gang and anti-drug programs; repair infrastructure; and provide other City services.

The CDTFA requires the City to enter into formal agreements for the collection and administration of this tax. Additionally, the CDTFA permits only authorized individuals to examine confidential tax records. The purpose of this item is for Council to approve the necessary agreements between the City and CDTFA and to formally designate authorized individuals permitted to access confidential records.

The agreements with CDTFA outline the terms under which it will administer and collect the Measure Y Transactions and Use Tax on behalf of the City. This is necessary for ensuring the proper collection and distribution of Measure Y funds and is required by California state law (Revenue and Taxation Code section 7251, et seq.).

Access to confidential taxpayer information is essential for the City's Finance Department to verify the accurate collection and allocation of Measure Y funds. The resolution designates specific individuals within the City authorized to examine confidential taxpayer records under the CDTFA's supervision, in compliance with Section 7056 of the Revenue and Taxation Code. In addition, the City's current consultant (HdL) who reviews records for proper assignment of tax would have access as well.

The following individuals are recommended to be authorized to examine relevant records:

- City Manager
- Assistant City Manager
- Finance Director
- Assistant Finance Director
- Deputy Finance Director
- City sales tax audit consultant (Hinderliter, De Llamas and Associates (HdL) and its successors)

These steps are necessary to ensure full transparency, accountability, and legal compliance in managing Measure Y tax revenues. Adopting these resolutions will allow the City to maintain compliance with state requirements for the administration of Measure Y and provide the City with access to essential records for monitoring and auditing purposes.

**FISCAL IMPACT**

Preparatory costs to be paid by the City to CDTFA to administer Measure Y will not exceed $175,000 and will be based on actual costs the CDTFA incurs. The CDTFA charges an administrative fee for its services, deducted from the collected Measure Y revenue. The ongoing administrative fee will be anticipated in the annual budget and will vary based on actual tax revenue and as determined by State law.

**REASON FOR RECOMMENDATION**
The CDTFA requires the City to enter into formal agreements for the collection and administration of Measure Y, a local Transactions and Use Tax of 1.0%. Additionally, the CDTFA permits only authorized individuals to examine confidential tax records. The purpose of this item is for Council to approve the necessary agreements with CDTFA and to formally designate authorized individuals permitted to access and review confidential tax records.

**ACTIONS FOLLOWING APPROVAL**
The agreements will be signed by the City Manager and returned to the CDTFA, and fully executed copies of the agreements will be retained by the City for record retention.

**CONFLICT OF INTEREST**
None.

Prepared by: Jay Schengel, Finance Director

Reviewed by: City Manager

**RESOLUTION 24-__**

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS AUTHORIZING THE CITY MANAGER TO EXECUTE AGREEMENTS WITH THE CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION FOR IMPLEMENTATION OF A LOCAL TRANSACTIONS AND USE TAX**

**WHEREAS,** on November 4, 2024, the City Council approved Ordinance Nos. 24-14 and 24-15 amending the City Municipal Code and providing for a 1.0% local transactions and use tax (Measure Y) subject to voter approval at the November 5, 2024, municipal election; and

**WHEREAS**, on December 9, 2024, with the approval of Resolution 24-137, the City Council declared the results of the November 5, 2024, Clovis municipal election including the voter approval of the transactions and use tax measure (Measure Y), and pursuant to applicable provisions of the Elections Code, including Section 9117, Ordinance Nos. 24-14 and 24-15 are considered adopted upon such City Council declaration of the vote approving Measure Y; and

**WHEREAS**, the California Department of Tax and Fee Administration (Department) administers and collects the transactions and use taxes for all applicable jurisdictions within the state; and

**WHEREAS**, the Department will be responsible to administer and collect the transactions and use tax for the City; and

**WHEREAS**, the Department requires that the City enter into a “Preparatory Agreement” and an “Administration Agreement” prior to implementation of said taxes, and

**WHEREAS,** the Department requires that the City Council authorize the agreements.

**NOW, THEREFORE, BE IT RESOLVED**, by the City Council of the City of Clovis that the “Preparatory Agreement” attached as Attachment A and the “Administrative Agreement” attached as Attachment B are hereby approved and the City Manager is hereby authorized to execute each agreement.

**NOW, THEREFORE, BE IT FURTHER RESOLVED**, by the City Council of the City of Clovis that the City Manager or designee is authorized to prepare, modify, sign, and deliver such documents (including the Preparatory Agreement and Administrative Agreement) and forms and take any other action as may be required of the City by the Department for the proper and timely administration, collection, transmittal, and payment of the transactions and use tax.

* * * * *

## ATTACHMENT 1

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED: December 16, 2024

_____ _____

Mayor City Clerk

# AGREEMENT FOR PREPARATION TO ADMINISTER AND OPERATE CITY'S TRANSACTIONS AND USE TAX ORDINANCE

In order to prepare to administer a transactions and use tax ordinance adopted in accordance with the provision of Part 1.6 (commencing with Section 7251) of Division 2 of the Revenue and Taxation Code, the City of Clovis, CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION, hereinafter called *Department*, do agree as follows:

1. The Department agrees to enter into work to prepare to administer and operate a transactions and use tax in conformity with Part 1.6 of Division 2 of the Revenue and Taxation Code which has been approved by a majority of the electors of the City and whose ordinance has been adopted by the City.

2. City agrees to pay to the Department at the times and in the amounts hereinafter specified all of the Department's costs for preparatory work necessary to administer the City's transactions and use tax ordinance. The Department's costs for preparatory work include costs of developing procedures, programming for data processing, developing and adopting appropriate regulations, designing and printing forms, developing instructions for the Department's staff and for taxpayers, and other appropriate and necessary preparatory costs to administer a transactions and use tax ordinance. These costs shall include both direct and indirect costs as specified in Section 11256 of the Government Code.

3. Preparatory costs may be accounted for in a manner which conforms to the internal accounting and personnel records currently maintained by the Department. The billings for costs may be presented in summary form. Detailed records of preparatory costs will be retained for audit and verification by the City.

4. Any dispute as to the amount of preparatory costs incurred by the Department shall be referred to the State Director of Finance for resolution, and the Director's decision shall be final.

5. Preparatory costs incurred by the Department shall be billed by the Department periodically, with the final billing within a reasonable time after the operative date of the ordinance. City shall pay to the Department the amount of such costs on or before the last day of the next succeeding month following the month when the billing is received.

6. The amount to be paid by City for the Department's preparatory costs shall not exceed one hundred seventy-five thousand dollars ($175,000) (Revenue and Taxation Code Section 7272.)

7. Communications and notices may be sent by first class United States mail or through email at jservices@cdtfa.ca.gov. If and when communications and notices may include confidential information, communications and notices must be sent through encrypted email at jservices@cdtfa.ca.gov or by mail. Communications and notices to be sent to the Department shall be addressed to:

California Department of Tax and Fee Administration
P.O. Box 942879 MIC: 27
Sacramento, California 94279-0027

Attention: Administrator
Local Revenue Branch

Communications and notices to be sent to City shall be addressed to:

City Manager

1033 Fifth St.

Clovis, CA 93612

8. The date of this agreement is the date on which it is approved by the Department of General Services. This agreement shall continue in effect until the preparatory work necessary to administer City's transactions and use tax ordinance has been completed and the Department has received all payments due from City under the terms of this agreement.

CITY OF _____

By _____
(Signature)

John Holt
(Typed Name)

City Manager
(Title)

Date: _____

CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION

By _____
Administrator
Local Revenue Branch

Date: _____

# AGREEMENT FOR STATE ADMINISTRATION OF CITY TRANSACTIONS AND USE TAXES

The City Council of the City of Clovis has adopted, and the voters of the City of Clovis (hereafter called "City" or "District") have approved by the required majority vote, the City of Clovis Transactions and Use Tax Ordinance (hereafter called "Ordinance"), a copy of which is attached hereto. To carry out the provisions of Part 1.6 of Division 2 of the Revenue and Taxation Code and the Ordinance, the California State Department of Tax and Fee Administration, (hereinafter called the "Department") and the City do agree as follows:

## ARTICLE I

DEFINITIONS

Unless the context requires otherwise, wherever the following terms appear in the Agreement, they shall be interpreted to mean the following:

1. "District taxes" shall mean the transactions and use taxes, penalties, and interest imposed under an ordinance specifically authorized by Revenue and Taxation code Section 7285.9, and in compliance with Part 1.6, Division 2 of the Revenue and Taxation Code.

2. "City Ordinance" shall mean the City's Transactions and Use Tax Ordinance referred to above and attached hereto, Ordinance Nos.24-14 and 24-15, as amended from time to time, or as deemed to be amended from time to time pursuant to Revenue and Taxation Code Section 7262.2.

## ARTICLE II

ADMINISTRATION AND COLLECTION OF CITY TAXES

**A**. **Administration.** The Department and City agree that the Department shall perform exclusively all functions incident to the administration and operation of the City Ordinance.

**B. Other Applicable Laws.** City agrees that all provisions of law applicable to the administration and operation of the Department Sales and Use Tax Law which are not inconsistent with Part 1.6 of Division 2 of the Revenue and Taxation Code shall be applicable to the administration and operation of the City Ordinance. City agrees that money collected pursuant to the City Ordinance may be deposited into the State Treasury to the credit of the Retail Sales Tax Fund and may be drawn from that Fund for any authorized purpose, including making refunds, compensating and reimbursing the Department pursuant to Article IV of this Agreement, and transmitting to City the amount to which City is entitled.

**C. Transmittal of money.**

1. For the period during which the tax is in effect, and except as otherwise provided herein, all district taxes collected under the provisions of the City Ordinance shall be transmitted to City periodically as promptly as feasible, but not less often than twice in each calendar quarter.

2. For periods subsequent to the expiration date of the tax whether by City's self-imposed limits or by final judgment of any court of the State of California holding that City's ordinance is invalid or void, all district taxes collected under the provisions of the City Ordinance shall be transmitted to City not less than once in each calendar quarter.

3. Transmittals may be made by mail or electronic funds transfer to an account of the City designated and authorized by the City. A statement shall be furnished at least quarterly indicating the amounts withheld pursuant to Article IV of this Agreement.

**D. Rules.** The Department shall prescribe and adopt such rules and regulations as in its judgment are necessary or desirable for the administration and operation of the City Ordinance and the distribution of the district taxes collected thereunder.

**E. Preference.** Unless the payor instructs otherwise, and except as otherwise provided in this Agreement, the Department shall give no preference in applying money received for state sales and use taxes, state-administered local sales and use taxes, and district transactions and use taxes owed by a taxpayer, but shall apply moneys collected to the satisfaction of the claims of the State, cities, counties, cities and counties, redevelopment agencies, other districts, and City as their interests appear.

**F. Security.** The Department agrees that any security which it hereafter requires to be furnished by taxpayers under the State Sales and Use Tax Law will be upon such terms that it also will be available for the payment of the claims of City for district taxes owing to it as its interest appears. The Department shall not be required to change the terms of any security now held by it, and City shall not participate in any security now held by the Department.

**G. Records of the Department.**

When requested by resolution of the legislative body of the City under section 7056 of the Revenue and Taxation Code, the Department agrees to permit authorized personnel of the City to examine the records of the Department, including the name, address, and account number of each seller holding a seller's permit with a registered business location in the City, pertaining to the ascertainment of transactions and use taxes collected for the City. Information obtained by the City from examination of the Department's records shall be used by the City only for purposes related to the collection of transactions and use taxes by the Department pursuant to this Agreement.

**H. Annexation.** City agrees that the Department shall not be required to give effect to an annexation, for the purpose of collecting, allocating, and distributing District transactions and use taxes, earlier than the first day of the calendar quarter which commences not less than two months after notice to the Department. The notice shall include the name of the county or counties annexed to the extended City boundary. In the event the City shall annex an area, the boundaries of which are not coterminous with a county or counties, the notice shall include a description of the area annexed and two maps of the City showing the area annexed and the location address of the property nearest to the extended City boundary on each side of every street or road crossing the boundary.

## ARTICLE III

ALLOCATION OF TAX

**A. Allocation.** In the administration of the Department's contracts with all districts that impose

**B.** transactions and use taxes imposed under ordinances, which comply with Part 1.6 of Division 2 of the Revenue and Taxation Code:

1. Any payment not identified as being in payment of liability owing to a designated district or districts may be apportioned among the districts as their interest appear, or, in the discretion of the Department, to all districts with which the Department has contracted using ratios reflected by the distribution of district taxes collected from all taxpayers.

2. All district taxes collected as a result of determinations or billings made by the Department, and all amounts refunded or credited may be distributed or charged to the respective districts in the same ratio as the taxpayer's self-declared district taxes for the period for which the determination, billing, refund or credit applies.

**B. Vehicles, Vessels, and Aircraft.** For the purpose of allocating use tax with respect to vehicles, vessels, or aircraft, the address of the registered owner appearing on the application for registration or on the certificate of ownership may be used by the Department in determining the place of use.

## ARTICLE IV

COMPENSATION

The City agrees to pay to the Department as the State's cost of administering the City Ordinance such amount as is provided for by law. Such amounts shall be deducted from the taxes collected by the Department for the City.

## ARTICLE V

MISCELLANEOUS PROVISIONS

**A. Communications.** Communications and notices may be sent by first class United States mail to the addresses listed below, or to such other addresses as the parties may from time to time designate or through email at jservices@cdtfa.ca.gov. If and when communications and notices may include confidential information, communications and notices must be sent through encrypted email at jservices@cdtfa.ca.gov or by mail.

Communications and notices to be sent to the Department shall be addressed to:

California State Department of Tax and Fee Administration
P.O. Box 942879
Sacramento, California 94279-0027

Attention: Administrator
Local Revenue Branch

Communications and notices to be sent to the City shall be addressed to:

City Manager

1033 Fifth St.

Clovis, CA 93612

**Unless otherwise directed, transmittals of payment of District transactions and use taxes will be sent to the address above.**

**B. Term.** The date of this Agreement is the date on which it is approved by the Department of General Services. The Agreement shall take effect on April 1, 2025. This Agreement shall continue until December 31 next following the expiration date of the City Ordinance, and shall thereafter be renewed automatically from year to year until the Department completes all work necessary to the administration of the City Ordinance and has received and disbursed all payments due under that Ordinance.

**C. Notice of Repeal of Ordinance.** City shall give the Department written notice of the repeal of the City Ordinance not less than 110 days prior to the operative date of the repeal.

## ARTICLE VI

ADMINISTRATION OF TAXES IF THE
ORDINANCE IS CHALLENGED AS BEING INVALID

**A. Impoundment of funds**.

1. When a legal action is begun challenging the validity of the imposition of the tax, the City shall deposit in an interest-bearing escrow account, any proceeds transmitted to it under Article II. C., until a court of competent jurisdiction renders a final and non-appealable judgment that the tax is valid.

2. If the tax is determined to be unconstitutional or otherwise invalid, the City shall transmit to the Department the moneys retained in escrow, including any accumulated interest, within ten days of the judgment of the trial court in the litigation awarding costs and fees becoming final and non-appealable.

**B. Costs of administration.** Should a final judgment be entered in any court of the State of California, holding that City's Ordinance is invalid or void, and requiring a rebate or refund to taxpayers of any taxes collected under the terms of this Agreement, the parties mutually agree that:

1. Department may retain all payments made by City to Department to prepare to administer the City Ordinance.

2. City will pay to Department and allow Department to retain Department's cost of administering the City Ordinance in the amounts set forth in Article IV of this Agreement.

3. City will pay to Department or to the State of California the amount of any taxes plus interest and penalties, if any, that Department or the State of California may be required to rebate or refund to taxpayers.

4. City will pay to Department its costs for rebating or refunding such taxes, interest, or penalties. Department's costs shall include its additional cost for developing procedures for processing the rebates or refunds, its costs of actually making these refunds, designing and printing forms, and developing instructions for Department's staff for use in making these rebates or refunds and any other costs incurred by Department which are reasonably appropriate or necessary to make those rebates or refunds. These costs shall include Department's direct and indirect costs as specified by Section 11256 of the Government Code.

5. Costs may be accounted for in a manner, which conforms to the internal accounting, and personnel records currently maintained by the Department. The billings for such costs may be presented in summary form. Detailed records will be retained for audit and verification by City.

6. Any dispute as to the amount of costs incurred by Department in refunding taxes shall be referred to the State Director of Finance for resolution and the Director's decision shall be final.

7. Costs incurred by Department in connection with such refunds shall be billed by Department on or before the 25th day of the second month following the month in which the judgment of a court of the State of California holding City's Ordinance invalid or void becomes final. Thereafter Department shall bill City on or before the 25th of each month for all costs incurred by Department for the preceding calendar month. City shall pay to Department the amount of such costs on or before the last day of the succeeding month and shall pay to Department the total amount of taxes, interest, and penalties refunded or paid to taxpayers, together with Department costs incurred in making those refunds.

CITY OF _____

By _____
(Signature)

John Holt
(Typed Name)

City Manager
(Title)

CALIFORNIA STATE DEPARTMENT OF TAX AND FEE ADMINISTRATION

By _____
Administrator
Local Revenue Branch

Date: _____

(Date)

# RESOLUTION 24-__

## RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS AUTHORIZING EXAMINATION OF SALES OR TRANSACTIONS AND USE TAX RECORDS

**WHEREAS**, pursuant to Ordinance Number 307, the City of Clovis (City) entered into a contract with the California Department of Tax and Fee Administration (Department) to perform all functions incident to the administration and collection of sales and use taxes; and

**WHEREAS**, pursuant to Ordinance Numbers 99-26 and 24-15 and Revenue and Taxation Code section 7270, the City of Clovis (City) entered into a contract with the California Department of Tax and Fee Administration (Department) to perform all functions incident to the administration and collection of transactions and use taxes; and

**WHEREAS**, the City Council of the City of Clovis deems it desirable and necessary for authorized officers, employees, and representatives of the City to examine confidential sales or transactions and use tax records of the Department pertaining to sales or transactions and use taxes collected by the Department for the City pursuant to that contract; and

**WHEREAS**, Section 7056 of the California Revenue and Taxation Code sets forth certain requirements and conditions for the disclosure of Department records, and Section 7056.5 of the California Revenue and Taxation Code establishes criminal penalties for the unlawful disclosure of information contained in, or derived from, the sales or transactions and use tax records of the Department.

**NOW, THEREFORE,** the City of Clovis hereby resolves as follows:

1. The following authorized position titles are hereby appointed, individually and jointly, to represent the City with authority to examine sales or transactions and use tax records of the Department pertaining to sales or transactions and use taxes collected for the City by the Department pursuant to the contract between the City and the Department.

    - City Manager
    - Assistant City Manager
    - Finance Director
    - Assistant Finance Director
    - Deputy Finance Director

    Additionally, the aforementioned authorized position titles are authorized to designate other individuals, or officers or employees of the City, by name and/or position title, in writing to the California Department of Tax and Fee Administration as appointed to represent the City with authority to examine sales or transactions and use tax records of the Department pertaining to sales or transactions and use taxes collected for the City by the Department pursuant to the contract between the City and the Department.

2. The information obtained by examination of Department records shall be used only for purposes related to the collection of City sales or transactions and use taxes by the Department pursuant to that contract and review of records to determine accuracy of tax allocation.

3. Hinderliter, De Llamas and Associates (HdL), the City's contracted tax consultant is hereby designated to examine the sales or transactions and use tax records of the Department pertaining to sales or transactions and use taxes collected for the City by the Department. HdL meets all of the following conditions, which are also included in the contract between the City and the HdL:

   a) has an existing contract with the City to examine those sales or transactions and use tax records;
   b) is required by that contract to disclose information contained in, or derived from, those sales or transactions and use tax records only to the officer or employee authorized under Section 1 of this resolution to examine the information;
   c) is prohibited by that contract from performing consulting services for a retailer during the term of that contract; and
   d) is prohibited by that contract from retaining the information contained in or derived from those sales or transactions and use tax records, after that contract has expired.

4. Any information obtained by examination of Department records shall be used only for purposes related to the collection of City sales or transactions and use taxes by the Department pursuant to the contract between the City and the Department.

5. This resolution supercedes all prior resolutions of the City Council of the City of Clovis adopted pursuant to subdivision (b) of Revenue and Taxation Code section 7056.

* * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED: December 16, 2024

_____ _____
Mayor City Clerk

# CITY of CLOVIS

## REPORT TO THE CITY COUNCIL

TO: Mayor and City Council

FROM: Planning and Development Services Department

DATE: December 16, 2024

SUBJECT: Planning and Development Services - Approval – Res. 24-___, Annexation of Miscellaneous Properties to the Landscape Maintenance District No. 1.

ATTACHMENTS: 1. Res. 24-___

**RECOMMENDATION**

For the City Council to approve Resolution 24-___, approving annexation of miscellaneous properties into City of Clovis Landscape Maintenance District (LMD) No. 1.

**EXECUTIVE SUMMARY**

The developers / property owners of the properties listed in Attachment A of the proposed resolution have submitted executed landscape maintenance covenants, copies of which are on file with the City Clerk, indicating consent to annexation of the subject property into the City of Clovis Landscape Maintenance District No. 1. This action will annex each of these properties into the Landscape Maintenance District so that they can be assessed for maintenance costs within their respective areas.

**BACKGROUND**

Council formed the original district on July 15, 1985, for the purpose of funding the maintenance of landscaped areas and parks. These properties are being brought to Council for annexation to the district as a group rather than separately in an effort to conserve staff resources and Council's time. Under the provisions of the Landscaping and Lighting Act of 1972, if all of the owners of property proposed for annexation provide written consent to annexation, then noticing, hearing, and filing of an Engineer's Report is not required.

Under the provisions of the Landscaping and Lighting Act of 1972, and in accordance with Article XIII C and Article XIII D of Proposition 218, all the owners of property proposed for annexation have provided a written request and consent to annexation and have executed a covenant (petition) indicating acceptance of the annual assessment.

**FISCAL IMPACT**
This project will add any landscaped areas and will incrementally increase maintenance revenue through annual assessments from the annexed properties. Current year to date status of landscape maintenance district facilities is as follows:

| | Various LMD's Under Consideration | Year to Date |
|---|---|---|
| LMD Landscaping added: | 0.000 acres | 1.920 acres |
| Resource needs added: | 0.000 person | 0.192 person |

The resource needs estimate is based on 1 person per 10 acres of landscaped area.

**REASON FOR RECOMMENDATION**
The property owners for the miscellaneous properties have requested or consented to annexation into the City of Clovis LMD No. 1.

**ACTIONS FOLLOWING APPROVAL**
The miscellaneous properties shall become a part of the City of Clovis LMD No. 1 and will be assessed next year for maintenance costs.

**CONFLICT OF INTEREST**
None.

Prepared by: Daniel Negrete, Engineer I

Reviewed by: City Manager AH

**RESOLUTION 24-___**

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS APPROVING ANNEXATION TO LANDSCAPING MAINTENANCE DISTRICT NO. 1 OF THE CITY OF CLOVIS**

**WHEREAS,** City of Clovis Landscape Maintenance District No. 1 ("District") was formed by Resolution No. 85-78, adopted July 15, 1985, pursuant to Part 2 of Division 15 of the Streets and Highways Code (Landscape and Lighting Act of 1972), herein the "Act"; and

**WHEREAS**, all of the owners of property proposed to be annexed to the District consisting of proposed developments as described in Attachment A attached hereto and incorporated herein by reference, have consented to said annexation and such annexation may be ordered without notice and hearing or filing of engineer's report, or both.

**NOW, THEREFORE, BE IT RESOLVED**, by the City of Clovis:

1. That the public interest and convenience require that certain property described in **Attachment A** attached hereto and by reference incorporated herein be annexed into Landscape Maintenance District No. 1 of the City of Clovis for the maintenance and servicing of landscaping facilities.

2. The City Clerk shall receive and file the maps showing the boundaries of the areas annexed as set forth in Attachment A which boundaries shall be used for assessment proceedings until and unless a change of organization is approved pursuant to the Act.

* * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit.

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED:

_____ Mayor

_____ City Clerk

**ATTACHMENT 1**

**Miscellaneous properties to be added to the Landscape Maintenance District No. 1 of the City of Clovis:**

| Project Number | Address | Developer/Owner |
|---|---|---|
| BD-CMBR-24-01168 | 1160 Third St | The Moser Family Trust, U/A |
| BD-CMBR-24-01160 | 935 W Euclid Ave | Palmer D. Cramer |
| BD-CMBR-24-02804 | 1561 Fifth St | Jonathan Gonzalez Cruz, a single man |
| BD-CMBR-24-01325<br>BD-CMBR-24-01324 | 336 N Phillip Ave | MD Legacy Holdings, LLC |
| SPR 2019-018 | 965 Barstow Ave | HK Equities, LLC |
| SPR 2023-008 | 650 W Herndon Ave<br>700 W Herndon Ave | Lakhijit S. Sandhu and Devinder K. Sandhu, husband and wife as Joint Tenants as to an undivided 50% interest and Rohit Sundrani and Vimy Sundrani, |
| BD-CMBR-24-02414 | 848 Third St | Darryl R. DeLuca Revocable Trust |
| BD-CMBR-24-02876 | 687 W Ashcroft Ave | Karl Malotke and Heather Malotke |
| BD-CMBR-24-02198 | 2465 Burl Ave | Justin M. Priddy and Karri R. Priddy |
| BD-CMBR-24-00474 | 763 W Menlo Ave | Chiraporn R. Curnyn |
| BD-CMBR-24-01929 | 1481 Gibson Ave | Claudia Nelson |
| BD-CMBR-24-00723 | 1656 Fourth St | Francisco Aguayo, an unmarried man |
| BD-CMBR-24-01591 | 534 Santa Ana Ave | Carlos A Ortiz Patino and Giezi L Penaloza Arguello, Husband and wife |
| BD-CMBR-24-01518 | 2548 Los Altos | Cheryl L. Wilson, an unmarried woman |
| SPR 2022-014 | 288 W Shaw Ave | Brown and Associates Clovis, LLC |
| SPR 2023-003 | 615 Barstow Ave | Lucido Family Partnership, a California general partnership |
| BD-CMBR-24-01818 | 2836 Purdue Ave | Luis Alfredo Lopez and Aura N. Lopez |
| SPR 1983-021A | 1200 Scott Ave | Clovis Apartment Group, LLC |
| BD-CMBR-24-00554 | 281 Minnewawa Ave | Darell L. Kroeker and Katherine F. Kroeker, Trustees of the 2022 Kroeker Family Revocable Trust |
| BD-CMBR-24-02005 | 603 Music Ave | Fernando Copetti Visciglio and Carla Padgett, husband and wife as community property with right of survivorship |
| BD-CMBR-24-00702 | 134 N Pollasky Ave | Jeff Siebenaler and Dina Siebenaler, husband and wife as joint tenants |
| SPR 1986-049A | 900 W Shaw Ave | Gary Steven Pleau and Vivian Marianne Pleau |
| BD-CMBR-23-04717 | 1615 Fifth St | Tower Rentals, LLC |
| BD-CMBR-23-03898 | 80 N Tammi Ct | Kimberly A. Johnson, a married woman |
| BD-CMBR-23-04493 | 46 N Woodworth Ave | Garett E. Sons, a married man |
| BD-CMBR-23-04792 | 1125 Woodworth Ave | CST Properties LLC. |
| BD-CMBR-24-00517 | 1665 Fourth St | Travis Cluff, a married man as his sole and separate property |
| BD-CMBR-23-03589 | 941 Woodworth Ave | Vincent Darnell and Brittney Darnell, Husband and wife, as joint tenants |
| BD-CMBR-23-03654 | 148 Acacia Ave | Jasmeet S. Khela and Gaganpreet K. Khela, Co-trustees of the Khela Family Trust under declaration of trust dated August 8, 2023 |

**ATTACHMENT A**

# CITY of CLOVIS

## REPORT TO THE CITY COUNCIL

TO: Mayor and City Council

FROM: Planning and Development Services Department

DATE: December 16, 2024

SUBJECT: Planning and Development Services – Approval – Bid Award for CIP 24-06, New Bus Stops: B2 to Cervantes Landscape Services, Inc., in the amount of $167,172.00; and authorize the City Manager to execute the contract on behalf of the City.

ATTACHMENTS: 1. Vicinity Map

**RECOMMENDATION**

1. For the City Council to award a contract for CIP 24-06 New Bus Stops: B2 to Cervantes Landscape Services, Inc., in the amount of $167,172.00; and
2. For the City Council to authorize the City Manager to execute the contract on behalf of the City.

**EXECUTIVE SUMMARY**

Staff is recommending that City Council award the contract to Cervantes Landscape Services, Inc., who was the lowest responsible bidder from a bid opening that took place on November 19, 2024, and authorize the City Manager to execute the project contract on behalf of the City.

The project consists of the constructing of new bus stops in various locations within the city limits and the City of Fresno. The purpose of the project is to provide ADA compliant bus stops as part of the new bus routes. The construction involves the demolition of landscape and sidewalks in the proposed locations and the pouring of new concrete pads and retaining curbs, sidewalks, and restoration of landscape, as necessary.

**BACKGROUND**
The following is a summary of the bids received on November 19, 2024:

| BIDDERS | BASE BID |
|---|---|
| Cervantes Landscape Services, Inc. | $167,172.00 |
| Clean Cut Landscape Incorporated | $178,495.00 |
| Dave Christian Construction Co., Inc. | $196,256.00 |
| Garcia Paving, Inc. | $346,124.86 |
| **ENGINEER'S ESTIMATE** | **$175,700.00** |

All bids were examined after the bid opening. Staff is recommending that immaterial and inconsequential discrepancies in the Cervantes Landscape Services, Inc. (CLS), bid be waived as authorized and the bid submitted by CLS be determined responsive and the project contract be awarded to CLS as the lowest responsive and responsible bidder. Staff has validated the lowest bidder contractor's license status and bond, and all items required of the contractor at the time of contract award.

Clean Cut Landscape, Inc., the second lowest bidder, filed a bid protest on November 25, 2024, contending the lower bid submitted by CLS was not a responsive bid and the contract could not be awarded to CLS. Although Clean Cut's bid protest was not submitted in a timely manner in accordance with the instructions in the bid documents for submitting bid protests, City staff and the City Attorney's office have nevertheless reviewed and considered each of the three points raised in Clean Cut's protest and further addressed in letter submitted by Clean Cut's legal counsel submitted on Friday afternoon, December 6, 2024.

Two of the noted discrepancies in the CLS bid – (1) not including the written words for the amounts of the unit prices and total bid price (although the figures were included and all added up correctly), and (2) the typed-in bid date and date inserted as the date the bid bond was signed by the CLS representative on page one of the bid bond being a different date than the date noted on the bid bond signature notary acknowledgement (page two of the bid bond) - are immaterial and inconsequential discrepancies that do not affect the amount of the bid, do not constitute a material mistake in the CLS bid, and do not give CLS an unfair competitive advantage over other bidders. Accordingly, the City has discretion to waive (or not waive) such discrepancies and determine the CLS bid is responsive. Staff is recommending waiving the immaterial and inconsequential discrepancies and determining the CLS bid as responsive and awarding the contract to CLS.

The third point raised in Clean Cut's bid protest was a purported failure by CLS to provide a certificate by the Clean Air Resources Board (CARB) with its bid. The CARB certificate requirement applies to the use of certain vehicles by a contractor. But the applicable regulation requires the contractor to provide the CARB certificate prior to entering into a contract with the City. There is no requirement to provide the CARB certificate at the time of bid submittal. Staff has received the CARB certificate from CLS for the vehicles to be used for this project. As a

result, CLS has satisfied the requirement to provide the CARB certificate before entering into a contract with the City.

Accordingly, City staff recommends waiving the noted discrepancies with the CLS bid and approving the award of this contract to Cervantes Landscape Services, Inc.

**FISCAL IMPACT**
This project was budgeted in the 2024-2025 Community Investment Program. The project is supported by Low Carbon Transit Operations Program (LCTOP) through the City Community Investment Program.

**REASON FOR RECOMMENDATION**
Cervantes Landscape Services, Inc., is the lowest responsible bidder and submitted a responsive bid. There are sufficient funds available for the anticipated cost of this project.

**ACTIONS FOLLOWING APPROVAL**
1. The contract will be prepared and executed, subject to the Contractor providing performance security that is satisfactory to the City.
2. Construction will begin approximately two (2) weeks after contract execution and be completed in forty (40) working days thereafter.

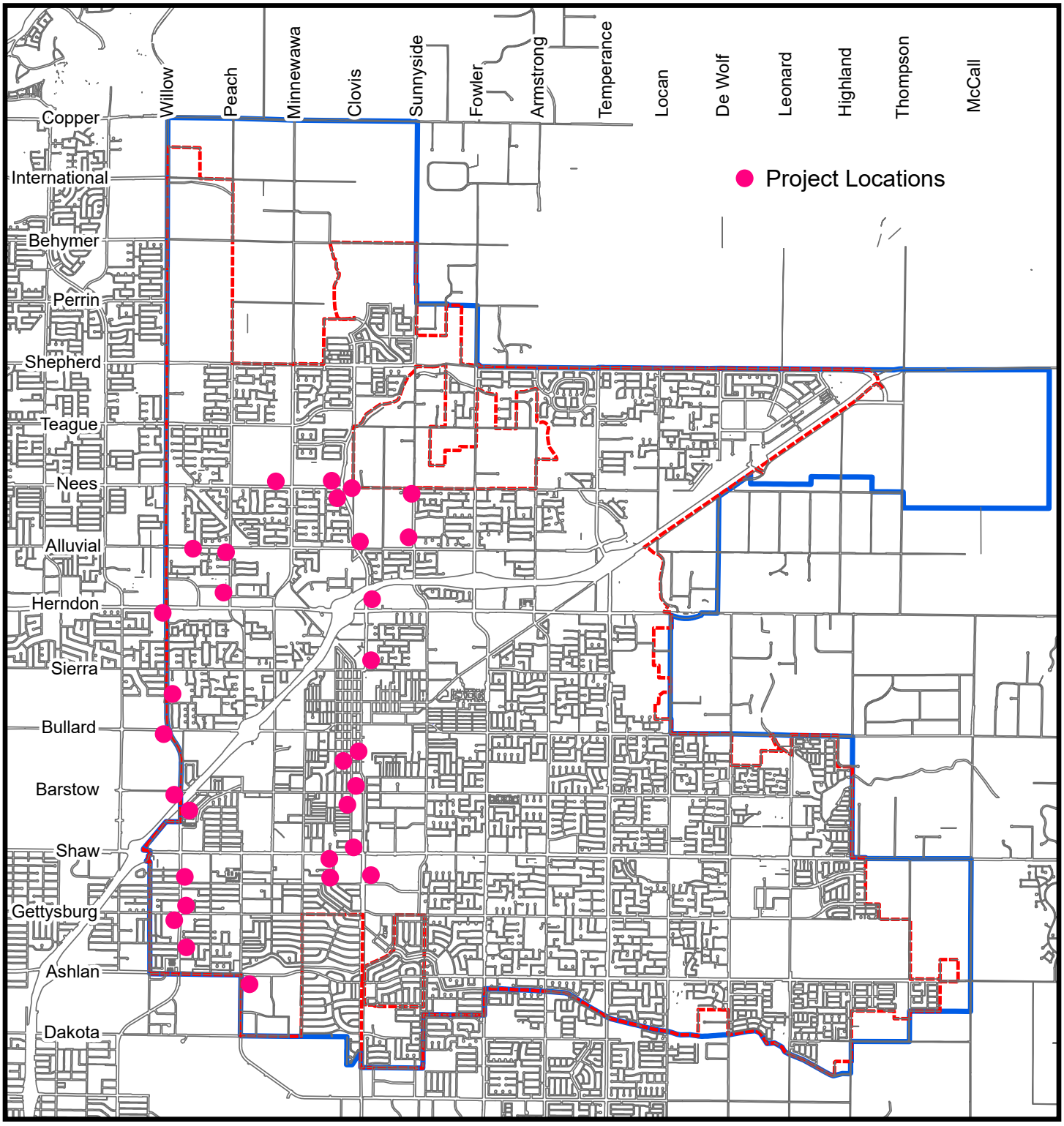
**CONFLICT OF INTEREST**
None.

Prepared by: Benjamin Little, Project Engineer

Reviewed by: City Manager ~~AH~~

# VICINITY MAP

CIP 24-06 New Bus Stops: B2




**Attachment 1**

CITY LIMITS SPHERE OF INFLUENCE

0 0.5 1 2

Miles

N W E S

Print Date: November 20, 2024

Benjamin Little

# CITY of CLOVIS

REPORT TO THE CITY COUNCIL

TO: Mayor and City Council

FROM: Planning and Development Services

DATE: December 16, 2024

SUBJECT: Planning and Development Services – Approval – Res. 24-115A, A Resolution of the Clovis City Council: Amending Resolution 24-115 to include an additional finding necessary to approve the adoption of the City of Clovis Sixth Cycle Housing Element, and authorizing staff to submit the Housing Element to the California Department of Housing and Community Development.

ATTACHMENTS: 1. Res. 24-115A

## RECOMMENDATION

Staff recommends that the City Council take action to approve the updated Res. 24-115A amending Resolution 24-115 to include an additional finding necessary for the adoption of the City's Housing Element.

## EXECUTIVE SUMMARY

At its November 4, 2024, meeting, the City Council approved Resolution 24-115, approving an addendum to the General Plan EIR and adopting the Housing Element. The final Housing Element was submitted to the California Department of Housing and Community Development (HCD) on November 8, 2024. HCD has a 60-day review period to issue a final findings letter, which is due by January 7, 2025. During the review, HCD has identified an omission from Resolution 24-115 approved by the City Council, a required finding related to the City's site inventory. The attached resolution amends Resolution 24-115 to include the necessary finding to address the requisite site inventory finding.

## BACKGROUND

As noted above, the Council adopted Resolution 24-115 on November 4, 2024, approving the City's Housing Element. During the statutory 60-day review period, HCD identified a key finding missing from Resolution 24-115. To address this, a new resolution amending Resolution 24-115 to include specific language pertaining to the sites inventory must be approved. The updated resolution amends Resolution 24-115 to include the following language as a required finding:

"Based on substantial evidence in the record including the location, existing use, development interest, market conditions and recent development trends, and regulatory incentives for

development, the existing uses on the non-vacant sites identified in the site inventory to accommodate the RHNA are likely to be discontinued during the planning period and therefore do not constitute an impediment to planned residential development on the site during the planning period."

Because the November 4, 2024, administrative record already supports this finding, amending Resolution 24-115 does not require an additional public hearing. Once the resolution is approved, staff will submit it to HCD for inclusion in the review process. This correction is among the final steps needed for HCD's certification review. Completing this action within the statutory 60-day review period is essential to provide HCD adequate time to verify the correction and issue certification.

**FISCAL IMPACT**
None.

**REASON FOR RECOMMENDATION**
The City must respond to HCD's comments and corrections during the Housing Element review process. This includes adopting a resolution amending Resolution 24-115 to incorporate specific findings related to the site inventory that were omitted in the initial resolution. This amendment is a critical step toward obtaining Housing Element certification.

**ACTIONS FOLLOWING APPROVAL**
The revised resolution will be submitted to HCD for inclusion in their review process.

**CONFLICT OF INTEREST**
None.

Prepared by: Lily Cha, Senior Planner

Reviewed by: City Manager

# RESOLUTION 24-115A

## RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS AMENDING RESOLUTION 24-115 (ATTACHMENT A) TO INCLUDE AN ADDITIONAL FINDING NECESSARY TO APPROVE THE ADOPTION OF THE CITY OF CLOVIS SIXTH CYCLE HOUSING ELEMENT, AND AUTHORIZING STAFF TO SUBMIT THE HOUSING ELEMENT TO THE CALIFORNIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT

**WHEREAS,** the City of Clovis, 1033 Fifth Street, Clovis CA, 93619, initiated an application for General Plan Amendment 2024-005 for the adoption of the City's Sixth Cycle Housing Element ("Housing Element" or "GPA 2024-005"); and

**WHEREAS**, the City has prepared the Housing Element in conformity with provisions of State Housing Element Law pursuant to California Government Code section 65580, et seq.; and

**WHEREAS**, on July 22, 2024, the California Department of Housing and Community Development ("HCD") issued a letter stating that the City's Draft Housing Element and associated revisions meet the statutory requirements of State Housing Element Law and will comply with State law upon its adoption and submission to HCD pursuant to Government Code section 65585; and

**WHEREAS**, an addendum to the General Plan EIR has been prepared for the proposed Housing Element in accordance with Section 15164 of the California Environmental Quality Act ("CEQA") Guidelines, which specifies that an addendum is appropriate in instances when some changes or additions are necessary but none of the conditions described in Section 15162 of the CEQA Guidelines calling for the preparation of a subsequent EIR have occurred; and

**WHEREAS**, at its October 3, 2024, meeting, the Clovis Planning Commission conducted a duly noticed public hearing and considered the addendum and proposed GPA 2024-005, found that none of the conditions described in Section 15162 of the CEQA Guidelines had occurred, and thereafter voted and adopted a resolution recommending that the City Council approve GPA 2024-005; and

**WHEREAS**, the Planning Commission's recommendation was forwarded to the City Council for the Council's consideration; and

**WHEREAS,** the City published notice of the public hearing for GPA 2024-005 in the Fresno Business Journal on October 21, 2024, more than ten (10) days prior to the City Council

hearing, and otherwise posted notice of the public hearing in accordance with applicable law; and

**WHEREAS,** a duly noticed public hearing was held on November 4, 2024, and the City Council approved Resolution 24-115, which is hereby incorporated by this reference herein, approving the addendum to the General Plan EIR and adopting the City's Sixth Cycle Housing Element; and

**WHEREAS**, on November 8, 2024, the City submitted the final adopted Housing Element to HCD for its final 60-day review period to issue a final finding letter; and

**WHEREAS**, during HCD's review of the City's Housing Element, it notified City staff that Resolution 24-115 was missing a specific finding relating to the City's site inventory of non-vacant sites used to accommodate the Regional Housing Needs Assessment ("RHNA") and requested the City take action to make that necessary finding; and

**WHEREAS**, the City Council had the opportunity to review and consider the entire administrative record relating to the Housing Element at the time Resolution 24-155 was approved, and the administrative record has remained on file with the City of Clovis Department of Planning and Development Services ("Department") since before Resolution 24-155 was approved, and the City Council has reviewed and considered those portions of the administrative record determined to be necessary to make an informed decision, including, but not necessarily limited to, the staff reports, the written materials submitted with the request, and the verbal and written testimony and other evidence presented during the public hearing ("Administrative Record") which supports the missing finding necessary for HCD's certification of the City's Housing Element.

**NOW, THEREFORE, BASED UPON THE ENTIRE RECORD OF THE PROCEEDINGS, THE CITY COUNCIL RESOLVES AND FINDS AS FOLLOWS:**

1. Resolution 24-115 is hereby amended to include the following additional finding:

    a. Based on substantial evidence in the record including the location, existing use, development interest, market conditions and recent development trends, and regulatory incentives for development, the existing uses on the non-vacant sites identified in the site inventory to accommodate the RHNA are likely to be discontinued during the planning period and therefore do not constitute an impediment to planned residential development on the site during the planning period.

2. The basis for this finding is detailed in the November 4, 2024, and December 16, 2024, staff reports, which are hereby incorporated by reference, the entire Administrative

Record, as well as the evidence and comments presented during the November 4, 2024, public hearing.

3. This Resolution amends the original Resolution 24-115 only to the extent necessary to include the additional finding required for adoption of the City's Sixth Cycle Housing Element as referenced above in Section 1, subdivision (a) of this Resolution, and except to the extent specifically amended by this Resolution, the original Resolution 24-115 shall remain in full force and effect.

4. The City Council hereby directs Department staff to submit Resolution 24-115 and this Resolution to HCD for review and certification of the City's Sixth Cycle Housing Element.

* * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED: December 16, 2024

_____ _____

Mayor City Clerk

**RESOLUTION 24-115**

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS APPROVING AN ADDENDUM TO THE CITY'S GENERAL PLAN ENVIRONMENTAL IMPACT REPORT, APPROVING GENERAL PLAN AMENDMENT 2024-005 FOR THE ADOPTION OF THE CITY OF CLOVIS SIXTH CYCLE HOUSING ELEMENT, AND AUTHORIZING STAFF TO SUBMIT THE HOUSING ELEMENT TO THE CALIFORNIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT**

**WHEREAS,** the City of Clovis, 1033 Fifth Street, Clovis CA, 93619, initiated an application for General Plan Amendment 2024-005 for the adoption of the City's Sixth Cycle Housing Element ("Housing Element" or "GPA 2024-005"); and

**WHEREAS**, the City has prepared the Housing Element in conformity with provisions of State Housing Element Law pursuant to California Government Code section 65580, et seq.; and

**WHEREAS**, on July 22, 2024, the California Department of Housing and Community Development ("HCD") issued a letter of conditional approval stating that the City's Draft Housing Element and associated revisions meet the statutory requirements of State Housing Element Law and will comply with State law upon its adoption and submission to HCD pursuant to Government Code section 65585; and

**WHEREAS**, an addendum to the General Plan EIR has been prepared for the proposed Project in accordance with Section 15164 of the California Environmental Quality Act (CEQA) Guidelines, which specifies that an addendum is appropriate in instances when some changes or additions are necessary but none of the conditions described in Section 15162 of the CEQA Guidelines calling for the preparation of a subsequent EIR have occurred; and

**WHEREAS**, at its October 3, 2024, meeting, the Clovis Planning Commission conducted a duly noticed public hearing and considered the addendum and proposed GPA 2024-005, found that none of the conditions described in Section 15162 of the CEQA Guidelines had occurred, and thereafter voted and adopted a resolution recommending that the City Council approve GPA 2024-005; and

**WHEREAS**, the Planning Commission's recommendation was forwarded to the City Council for the Council's consideration; and

**WHEREAS,** the City published notice of the public hearing for GPA 2024-005 in the Fresno Business Journal on October 21, 2024, more than ten (10) days prior to the City Council

hearing, and otherwise posted notice of the public hearing in accordance with applicable law; and

**WHEREAS,** a duly noticed hearing was held on November 4, 2024; and

**WHEREAS**, the City Council has had an opportunity to review and consider the entire administrative record relating to the Housing Element, which is on file with the City of Clovis Department of Planning and Development Services ("Department"), and reviewed and considered those portions of the administrative record determined to be necessary to make an informed decision, including, but not necessarily limited to, the staff report, the written materials submitted with the request, and the verbal and written testimony and other evidence presented during the public hearing ("Administrative Record").

**NOW, THEREFORE, BASED UPON THE ENTIRE RECORD OF THE PROCEEDINGS, THE CITY COUNCIL RESOLVES AND FINDS AS FOLLOWS:**

1. In accordance with Section 15164, subdivision (d) of the CEQA Guidelines, the addendum to the General Plan EIR prepared for the Project and the final General Plan EIR have been considered by the City Council prior to making a decision on the Project. In considering the addendum, the following determinations pursuant to CEQA Guidelines section 15162 were made:

   a. There are no substantial changes proposed in the Project which would require major revisions to the General Plan EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.

   b. No substantial changes would occur with respect to the circumstances under which the Project is undertaken which will require major revisions of the General Plan EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.

   c. There is no new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was adopted, that shows any of the following: (i) The Project will have one or more significant effects not discussed in the General Plan EIR; (ii) Significant effects previously examined will be substantially more severe than shown in the General Plan EIR; (iii) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the Project; and, (iv) Mitigation measures or alternatives which

are considerably different from those analyzed in the General Plan EIR, would substantially reduce one or more significant effects on the environment.

2. The Project satisfies the required findings for approval of a general plan amendment, as follows:

   a. GPA2024-005 is internally consistent with the goals, policies, and actions of the General Plan.

   b. GPA2024-005 would not be detrimental to the public interest, health, safety, convenience, or general welfare of the City.

   c. There is a compelling reason for the amendment, namely that California Law requires the City to update its Housing Element every eight years.

3. GPA2024-005 as outlined in **Attachment A,** is hereby approved.

4. The basis for the findings is detailed in the November 4, 2024, staff report, which is hereby incorporated by reference, the entire Administrative Record, as well as the evidence and comments presented during the public hearing.

* * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on November 4, 2024, by the following vote, to wit:

AYES: Councilmembers Basgall, Bessinger, Mouanoutoua, Pearce, Mayor Ashbeck
NOES: None
ABSENT: None
ABSTAIN: None

DATED: November 4, 2024

Lynne Ashbeck
Mayor

Briana Parra
City Clerk

CITY OF CLOVIS INCORPORATED FEBRUARY 27 1912

# CITY of CLOVIS

## REPORT TO THE CITY COUNCIL

TO: Mayor and City Council

FROM: Public Utilities Department

DATE: December 16, 2024

SUBJECT: Public Utilities – Approval – Waive Formal Bidding Requirements and Authorize the Purchase of Six (6) 2025 Dodge Durango Police Department Patrol Vehicles from National Auto Fleet Group Using the Sourcewell Purchasing Contract in the Total Amount of $383,195.40; and Approval – Res. 24-___, Amending the 2024-2025 Fleet Capital Acquisition Budget to Allocate $190,000 of Funds for the Purchase of Two (2) 2025 Dodge Durango Police Department Patrol Vehicles.

ATTACHMENTS: 1. Resolution and Budget Amendment

**RECOMMENDATION**

1. For the City Council to approve waiving the City's formal bidding requirements and authorize purchasing six (6) 2025 Dodge Durango patrol vehicles for $63,865.90 each for a combined total of $383,195.40, including tax and delivery fees, from National Auto Fleet Group utilizing the Sourcewell Purchasing Contract 091521-NAF; and

2. Approve a resolution amending the 2024-2025 Fleet Capital Acquisition Budget to allocate funds for the purchase of two (2) 2025 Dodge Durango Police Department patrol vehicles to replace vehicles damaged in accidents.

**EXECUTIVE SUMMARY**

There are funds in this fiscal year's Fleet Capital Acquisition Budget to purchase four (4) 2025 Dodge Durango patrol vehicles for the Police Department (PD), and staff are requesting approval of a budget amendment to allocate funds for the purchase and build-out of two (2) additional vehicles to replace existing vehicles damaged in accidents. National Auto Fleet Groups' bid price for the six (6) new patrol vehicles is $383,195.40, or $63,865.90 each, including tax, delivery fees, and Sourcewell pricing discount.

The Sourcewell Purchasing Contract, formerly the National Joint Powers Alliance (NJPA) contract, is a nationwide public procurement service that makes the governmental procurement process more efficient. All contracts available to participating members have been awarded by virtue of a public competitive procurement process compliant with state statutes.

## BACKGROUND

The recommended equipment is available through the Sourcewell Cooperative Purchasing Contract, formerly the NJPA contract. Sourcewell is a cooperative purchasing contract that allows dealerships like National Auto Fleet Group to respond to a Request for Proposals (RFP) that covers a large group of government buyers, and it allows a large group of government buyers with similar interests to leverage their buying power to obtain government-only discounts on products.

The Fleet Fund includes a vehicle and equipment replacement program where the different divisions within City departments budget for and contribute a set amount of money annually for the future scheduled replacement of a vehicle or piece of equipment. This allows each department, and the divisions within each department, to financially plan for the large capital expense of purchasing new vehicles and equipment that need to be replaced due to age, wear and tear, or to meet regulatory requirements. Depending on the condition and need of the vehicle or equipment being replaced, it will be moved from front-line operation and may be kept as a back-up, or it will be auctioned off in the City's vehicle and equipment surplus program.

In addition to the four (4) vehicles included in the Fleet Capital Acquisition Budget and scheduled to be purchased this fiscal year, two police patrol vehicles were damaged in accidents and have been deemed totaled. The replacement of these two vehicles was not included in the 2024-2025 Fleet Capital Acquisition Budget; therefore, staff are requesting approval of a budget amendment to allocate funds for the purchase of the replacement vehicles. The Central San Joaquin Valley Risk Management Authority (CSJVRMA) is expected to reimburse the City for a portion of the cost to replace the vehicles.

## FISCAL IMPACT

Funds were included in the 2024-2025 Fleet Capital Acquisition Budget, often referred to as the Fleet Renewal or Fleet Replacement Budget, to purchase and build out four (4) new patrol vehicles. The Police Department has accumulated the necessary funds for this purchase.

Staff are requesting approval of a budget amendment to allocate funds ($190,000) for the purchase and build-out of two (2) additional vehicles to replace existing vehicles damaged in accidents. It is estimated that the Central San Joaquin Valley Risk Management Authority (CSJVRMA) will reimburse the City $140,000 for the totaled vehicles. The remaining $50,000 will be paid for by accumulated PD fleet renewal funds from the Fleet Fund.

## REASON FOR RECOMMENDATION

The Police Department has hired additional patrol officers, requiring the purchase of four (4) additional vehicles, and two (2) vehicles are needed to replace vehicles that were in accidents and have been deemed totaled. Staff have evaluated the available vehicles and have determined that they meet the needs of the Police Department. The proposed method of purchasing the vehicles is cost-effective and funds are available.

## ACTIONS FOLLOWING APPROVAL

1. Purchase orders will be prepared for the City Manager's approval and sent to the vendor.
2. Funds will be appropriated in the City of Clovis 2024-2025 Fleet Capital Acquisition Budget for PD as specified in the attached budget amendment.

**CONFLICT OF INTEREST**
None.

Prepared by: Jim Stringfield, Fleet Manager

Reviewed by: City Manager

**RESOLUTION 24-___**

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS APPROVING AN AMENDMENT TO THE ANNUAL BUDGET FOR FISCAL YEAR 2024-2025**

**WHEREAS,** the City Council adopted the 2024-2025 Budget on June 10, 2024; and

**WHEREAS**, the City Council is amending the 2024-2025 Budget to include additional expenditures in the Fleet Acquisition Budget to fund the purchase of two (2) Police Department Dodge Durango patrol vehicles to replace vehicles damaged in accidents; and

**WHEREAS,** the Police patrol vehicles damaged in accidents have been deemed totaled, and it is estimated that the Central San Joaquin Valley Risk Management Authority (CSJVRMA) will reimburse the City $140,000; and

**WHEREAS**, the revenues and expenditures were not included in the 2024-2025 Budget.

**NOW, THEREFORE, BE IT RESOLVED,** by the City of Clovis to approve the budget amendment as shown in the "Summary of Expenditures by Department," "Summary of Expenditures by Fund," "Summary of Revenues by Department," and "Summary of Revenues by Fund," attached as **Attachment A**.

* * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit.

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED:

_____ Mayor

_____ City Clerk

**ATTACHMENT 1**

**SUMMARY OF EXPENDITURES BY DEPARTMENT**

| Department | |
|---|---|
| Public Utilities Department | $190,000.00 |
| Fleet Capital Acquisition (75100-68705) | |
| **Total** | **$190,000.00** |

**SUMMARY OF EXPENDITURES BY FUND**

| Fund | |
|---|---|
| Fleet Fund | $190,000.00 |
| **Total** | **$190,000.00** |

**SUMMARY OF REVENUES BY DEPARTMENT**

| Department | |
|---|---|
| Public Utilities Department | $140,000.00 |
| Fleet Capital Acquisition – (75100-47821)<br>Restitution-Damage Reimbursement | |
| **Total** | **$140,000.00** |

**SUMMARY OF REVENUES BY FUND**

| Fund | |
|---|---|
| Fleet Fund | $140,000.00 |
| **Total** | **$140,000.00** |

**ATTACHMENT A**

# CITY of CLOVIS

## REPORT TO THE CITY COUNCIL

TO: Mayor and City Council

FROM: Public Utilities Department

DATE: December 16, 2024

SUBJECT: Public Utilities – Approval – Waive Formal Bidding Requirements and Authorize the Purchase of One (1) Vactor 2112-18 Sewer Cleaning Truck from Haaker Equipment Company Using the Sourcewell Cooperative Purchasing Contract in the Amount of $702,379.53; and Approval – Res. 24-___, Amending the 2024-2025 Sewer Enterprise Budget to Allocate $210,000 of Additional Funds for the Purchase of a Sewer Cleaning Truck.

ATTACHMENTS: 1. Resolution and Budget Amendment

**RECOMMENDATION**

1. For the City Council to waive formal bidding requirements and authorize the purchase of one (1) Vactor 2112-18 sewer cleaning truck from Haaker Equipment Company in the amount of $702,379.53, including tax and freight.

2. Approve a resolution amending the 2024-2025 Sewer Enterprise Budget to allocate funds for the purchase of a sewer cleaning truck.

**EXECUTIVE SUMMARY**

The existing sewer cleaning equipment has been in service for 10 years and is scheduled to be replaced due to its age. The competitively bid contract price of $702,379.53 is from Haaker Equipment Company, using the Sourcewell Cooperative Purchasing Contract. In recent years, staff have seen a significant increase in the cost of specialty equipment. $500,000 was allocated in this fiscal year's Fleet Renewal Budget for the purchase of this equipment. Staff are requesting Council to approve a resolution to amend the 2024-2025 Sewer Enterprise Budget to allocate the remaining funds needed for the purchase of this equipment.

The Sourcewell Cooperative Purchasing Contract, formerly the National Joint Powers Alliance (NJPA) contract, is a nationwide public procurement service that makes the governmental procurement process more efficient. All contracts available to participating members have been awarded by virtue of a public competitive procurement process compliant with state statutes.

**BACKGROUND**
The recommended equipment is available through the Sourcewell Cooperative Purchasing Contract, formerly the NJPA contract. Sourcewell is a cooperative purchasing contract that allows a manufacturer like Vactor to respond to a Request for Proposals (RFP) that covers a large group of government buyers, and it allows a large group of government buyers with similar interests to leverage their buying power to obtain government-only discounts on products.

The Fleet Fund includes a vehicle and equipment replacement program where the different divisions within City departments budget for and contribute a set amount of money annually for the future scheduled replacement of a vehicle or piece of equipment. This allows each department, and the divisions within each department, to financially plan for the large capital expense of purchasing new vehicles and equipment that need to be replaced due to age, wear and tear, or to meet regulatory requirements. Depending on the condition and need of the vehicle or equipment being replaced, it will be moved from front-line operation and may be kept as a back-up, or it will be auctioned off in the City's vehicle and equipment surplus program.

**FISCAL IMPACT**
Funds were included in the 2024-2025 Fleet Capital Acquisition Budget, often referred to as the Fleet Renewal or Fleet Replacement Budget. Staff are requesting Council to approve a resolution to amend the Sewer Enterprise Budget to allocate the remaining funds not collected in the Fleet Replacement Budget (a total of $210,000) to purchase the vehicle. The Sewer Enterprise Fund has the necessary funds for the purchase of the equipment.

**REASON FOR RECOMMENDATION**
The existing sewer cleaning truck has been in service for over 10 years and is scheduled for replacement. Sufficient funds are available for the replacement of the equipment. Staff have evaluated the available equipment and have determined that it meets the needs of the Public Utilities Department Wastewater Division.

**ACTIONS FOLLOWING APPROVAL**
1. Purchase orders will be prepared for the City Manager's approval and sent to the vendor.

2. Funds will be appropriated in the City of Clovis 2024-2025 Sewer Enterprise Budget as specified in the attached budget amendment.

**CONFLICT OF INTEREST**
None.

Prepared by: Jim Stringfield, Fleet Manager

Reviewed by: City Manager

**RESOLUTION 24-___**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS APPROVING AN AMENDMENT TO THE ANNUAL BUDGET FOR FISCAL YEAR 2024-2025**

**WHEREAS,** the City Council adopted the 2024-2025 Budget on June 10, 2024; and

**WHEREAS**, the City Council is amending the 2024-2025 Budget to include additional expenditures in the Sewer Enterprise Budget to fund the purchase of a Sewer Cleaning Truck; and

**WHEREAS**, the expenditures were not included in the 2024-2025 Budget.

**NOW, THEREFORE, BE IT RESOLVED,** that the City Council of the City of Clovis approves the budget amendment as shown in the "Summary of Expenditures by Department" and "Summary of Expenditures by Fund," attached as **Attachment A**.

* * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit.

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED:

_____ Mayor

_____ City Clerk

**ATTACHMENT 1**

**SUMMARY OF EXPENDITURES BY DEPARTMENT**

| Department | |
|---|---|
| Public Utilities Department | $210,000.00 |
| Sewer Enterprise (76500-68525) | |
| **Total** | **$210,000.00** |

**SUMMARY OF EXPENDITURES BY FUND**

| Fund | |
|---|---|
| Sewer Enterprise Fund | $210,000.00 |
| **Total** | **$210,000.00** |

---

**NET GENERAL FUND SUPPORT**

| | |
|---|---|
| **Total** | **$0** |

## ATTACHMENT A

# CITY of CLOVIS

## REPORT TO THE CITY COUNCIL

TO: Mayor and City Council

FROM: Public Utilities Department

DATE: December 16, 2024

SUBJECT: Public Utilities – Approval – Waive Formal Bidding Requirements and Authorize the Purchase of One (1) 2026 Autocar Frontload Refuse Truck from Affinity Truck Center Using the Sourcewell Cooperative Purchasing Contract in the Amount of $436,737.73.

ATTACHMENTS: None.

**RECOMMENDATION**

For the City Council to waive formal bidding requirements and authorize the purchase of one (1) 2026 Autocar frontload refuse truck from Affinity Truck Center in the amount of $436,737.73, including tax and freight.

**EXECUTIVE SUMMARY**

There are funds in this fiscal year's Fleet Renewal Budget to purchase a 2026 Autocar frontload refuse truck for the Public Utilities Department Solid Waste Division. The existing equipment is scheduled to be replaced due to its age. The competitively bid contract price of $436,737.73 is from Affinity Truck Center using the Sourcewell Cooperative Purchasing Contract. The new vehicle will meet all emissions requirements.

The Sourcewell Cooperative Purchasing Contract, formerly the National Joint Powers Alliance (NJPA) contract, is a nationwide public procurement service that makes the governmental procurement process more efficient. All contracts available to participating members have been awarded by virtue of a public competitive procurement process compliant with state statutes.

**BACKGROUND**

The recommended equipment is available through the Sourcewell Cooperative Purchasing Contract, formerly the NJPA contract. Sourcewell is a cooperative purchasing contract that allows a manufacturer like Autocar to respond to a Request for Proposals (RFP) that covers a large group of government buyers, and it allows a large group of government buyers with similar interests to leverage their buying power to obtain government-only discounts on products.

The Fleet Fund includes a vehicle and equipment replacement program where the different divisions within City departments budget for and contribute a set amount of money annually for

the future scheduled replacement of a vehicle or piece of equipment. This allows each department, and the divisions within each department, to financially plan for the large capital expense of purchasing new vehicles and equipment that need to be replaced due to age, wear and tear, or to meet regulatory requirements. Depending on the condition and need of the vehicle or equipment being replaced, it will be moved from front-line operation and may be kept as a back-up, or it will be auctioned off in the City's vehicle and equipment surplus program.

**FISCAL IMPACT**
Funds were included in the 2024-2025 Fleet Capital Acquisition Budget, often referred to as the Fleet Renewal or Fleet Replacement Budget. The Solid Waste Division has provided the necessary funds for purchase of the equipment.

**REASON FOR RECOMMENDATION**
The existing frontload refuse truck has been in service for 8 years and is scheduled for replacement. Sufficient funds have been collected for replacement of the equipment. Staff have evaluated the available equipment and have determined that it meets the needs of the Public Utilities Department Solid Waste Division. The proposed method of purchasing the equipment is cost-effective and funds are available

**ACTIONS FOLLOWING APPROVAL**
Purchase orders will be prepared for the City Manager's approval and sent to the vendor.

**CONFLICT OF INTEREST**
None.

Prepared by: Jim Stringfield, Fleet Manager

Reviewed by: City Manager *AH*

CITY of CLOVIS

# Proclamation

## Honoring John Holt for 25 Years of Service to the City of Clovis

***WHEREAS,*** *Mr. John Holt has dedicated 25 years of exemplary service to the City of Clovis, demonstrating an unwavering commitment to excellence and public service in multiple roles, including City Clerk, Management Analyst, and Assistant City Manager; and*

***WHEREAS,*** *prior to joining the City of Clovis in 2000, Mr. Holt served as Financial Services Manager for the City of Visalia, bringing with him a wealth of experience and expertise in municipal administration; and*

***WHEREAS,*** *Mr. Holt is a proud veteran and retired Navy Captain, having served five years on active duty and 25 years in the reserves, including global assignments and a distinguished tour as a Commanding Officer in Baghdad, Iraq, from 2008 to 2009, exemplifying courage and leadership in service to his country; and*

***WHEREAS,*** *during his tenure with the City of Clovis, Mr. Holt has been a steadfast resident of the community for 30 years, fostering deep connections and a profound understanding of the needs and aspirations of Clovis residents; and*

***WHEREAS,*** *in 2021, Mr. Holt was appointed as City Manager by the Clovis City Council, a role in which he has continued to lead with integrity, vision, and a tireless dedication to the betterment of the City; and*

***WHEREAS,*** *Mr. Holt was instrumental in several major projects including the new Clovis Senior Activity Center, a Smittcamp Family Legacy, the William "Harry" Armstrong Transit Center, Fire Station 6 and the Village Green in the Loma Vista community of Clovis, the reconstruction of Fire station 2 and the Gould Canal trail in the Helm Ranch community of Clovis, and the passage of Measure Y, an ongoing revenue source to protect the Clovis way of life; and*

***WHEREAS,*** *John will enjoy his retirement with his wife Jackie, his 6 children and 14 grandchildren spending time with them travelling and doting on them; and*

***WHEREAS,*** *Mr. Holt's career is a testament to his unwavering commitment to public service, his extraordinary leadership, and his profound impact on the City of Clovis and beyond.*

***NOW, THEREFORE, BE IT RESOLVED,*** *that the Clovis City Council, on behalf of the citizens of Clovis, does recognize and honor*

# John Holt

*for his outstanding service, leadership, and dedication to our community and our country, and extends heartfelt gratitude for his contributions to the betterment of our City and the enrichment of its residents' lives.*

***IN WITNESS THEREFORE,*** *I hereunto set my hand and cause the official seal of the City of Clovis to be affixed the 16th day of December, 2024*

***Mayor*** ***Mayor Pro Tem*** ***Councilmember***

***Councilmember*** ***Councilmember***

# CITY of CLOVIS

REPORT TO THE CITY COUNCIL

TO: Mayor and City Council

FROM: General Services Department

DATE: December 16, 2024

SUBJECT: Consider Approval – City Manager Employment Agreement with Andrew Haussler, and Appointment of Andrew Haussler as City Manager effective January 1, 2025.

**Staff:** Amy Hance, General Services Director
**Recommendation:** Approve

ATTACHMENTS: 1. City Manager Employment Agreement

## RECOMMENDATION

For City Council to approve the City Manager Employment Agreement (Attachment 1), which sets forth the terms and conditions of the appointment of Andrew Haussler as City Manager effective January 1, 2025, for a period of three years.

## EXECUTIVE SUMMARY

Following a recruitment and selection process, the City Council has selected Andrew Haussler as City Manager. An employment agreement specifying the terms and conditions of employment is attached for the Council's approval.

## BACKGROUND

The City's current City Manager is retiring effective December 30, 2024. Following a nationwide recruitment process, the City Council has selected Assistant City Manager Andrew Haussler to be the new City Manager beginning January 1, 2025. The attached employment agreement sets forth the terms and conditions of Mr. Haussler's employment as City Manager.

The primary terms of compensation and benefits include the following: a beginning monthly salary at Step 1 of the current City Manager classification on the City's approved salary schedule ($21,341 monthly); the same health and welfare benefits and other benefits and allowances as approved by the City Council and available to executive management employees of the City; the same vacation leave, sick leave, and compensatory time off accrual and use benefit as approved by the City Council and available to executive management employees of the City; and six (6)

months' severance compensation if the employment agreement is terminated by the City Council without cause.

**FISCAL IMPACT**
There are sufficient funds available in the Administration budget to accommodate the salary and benefit package recommended in the City Manager Employment Agreement.

**REASON FOR RECOMMENDATION**
The City Council has selected Mr. Haussler as the City Manager. City Manager Employment Agreements require the approval of the City Council in open session.

**ACTIONS FOLLOWING APPROVAL**
The agreement will be executed by all parties and a personnel action form will be prepared consistent with the terms of the agreement.

**CONFLICT OF INTEREST**
None.

Prepared by: Amy Hance, General Services Director

Reviewed by: City Manager

# EMPLOYMENT AGREEMENT
# CITY MANAGER, CITY OF CLOVIS

This Employment Agreement (Agreement") is entered into on December 16, 2024, by and between the City of Clovis ("City") and Andrew Haussler ("Haussler"), with respect to the following Recitals, which are a substantive part of this Agreement:

## RECITALS

A. City's current City Manager, John Holt ("Holt") is retiring effective December 30, 2024.

B. City has completed the process for selecting a new City Manager to replace Holt upon his retirement.

C. Haussler is currently serving as the Assistant City Manager and has been selected by the City Council to serve as the new City Manager upon Holt's retirement.

D. Haussler desires to become the new City Manager upon Holt's retirement and City desires to appoint Haussler as the City Manager effective upon Holt's retirement, subject to the terms of this Agreement.

NOW, THEREFORE, City and Haussler agree as follows:

1. Employment. City employs Haussler as the City Manager effective beginning on January 1, 2025. Haussler will be an at-will employee serving at the pleasure of the City Council subject to the terms and conditions set forth below. Haussler's employment with the City as City Manager is at the mutual consent of both Haussler and the City. There are no express or implied agreements contrary to the foregoing.

2. Term. This Agreement shall be in effect for a period of three (3) years beginning on January 1, 2025, unless terminated in accordance with Section 6 below or otherwise amended by mutual written agreement signed by both parties. In the event of termination pursuant to Section 6, Haussler shall not be entitled to any additional compensation except as provided in Section 6.

3. Salary. Haussler shall be placed on Step 1 of the City Manager's salary schedule in effect on January 1, 2025. Haussler shall not be entitled to receive any step increases but will be entitled to cost of living adjustments made applicable to all executive management employees. Following Haussler's December performance evaluation as addressed in Section 5 herein, City and Haussler may mutually agree to an amendment implementing a salary step increase or other amendment to this Agreement.

4. Duties and Professional Conduct. Haussler shall have the powers and shall perform the duties prescribed in the Clovis Municipal Code for the City Manager. Haussler shall also perform such additional responsibilities as may be assigned by the City Council.

a. Haussler shall adhere to the professional standards of conduct as prescribed by the International City/County Management Association.

b. Consistent with the provisions of Clovis Municipal Code section 2.2.105, the City Council and its members shall deal with the administrative services of the City only through the City Manager, except for the purposes of inquiry, and neither the City Council nor any member thereof shall give orders or instructions to any subordinates of the City Manager on matters of administrative services. The City Manager shall take orders and instructions from City Council on matters of policy and administrative services only when sitting in a duly convened meeting of City Council, and no individual Councilmember shall give any orders or instructions to the City Manager on matters of policy or administrative services.

5. Evaluation. During the first year of the Term of this Agreement, Haussler and the City Council shall meet in March to review and discuss performance expectations and an evaluation process. Thereafter, Haussler shall receive a performance evaluation in June and December of each year during the Term of this Agreement, or more often as may be requested by the City Council. It shall be the responsibility of Haussler to schedule those evaluations. A facilitator may be utilized during any evaluation if agreed upon by the City Council and Haussler. Failure to evaluate shall have no effect on the rights, duties, and obligations of the parties herein.

6. Termination and Severance.

a. Termination Defined. Termination shall mean removal from office by a majority vote of the entire City Council at a duly held City Council meeting or a request by a majority of the entire City Council at a duly held City Council meeting that the City Manager resign. Termination shall not mean a reduction of benefits generally applicable to all management employees or a voluntary resignation by Haussler.

b. Termination Without Cause. Subject to Clovis Municipal Code section 2.2.109, the majority of the entire City Council may terminate this Agreement at any time without cause by providing at least thirty (30) days written notice to Haussler.

c. Severance. In the event of termination without cause, Haussler shall be entitled to severance compensation equal to Haussler's salary for six (6) months and continuation of all existing medical, dental, and optical insurance benefits (health benefits) for six (6) months for Haussler and his dependents. If Haussler finds other employment that provides health benefits and Haussler qualifies to begin receiving those health benefits before the six-month severance period expires, then the health benefits provided by the City shall terminate. Severance for salary shall be paid in one lump sum and in the same manner as the customary payout of earned benefits.

In addition to the severance payment above, upon termination without cause Haussler shall also receive payment for the cash value of the following upon the date of termination: (i) accrued and unused vacation leave, (ii) accrued and unused administrative leave, and (iii) earned and unused floating holidays.

d. Termination for Cause. City may terminate this Agreement immediately for cause notwithstanding Clovis Municipal Code section 2.2.109. If Haussler is terminated for cause, Haussler shall not be entitled to the severance compensation under this Section but shall receive payment for the cash value of the following upon the date of termination: (i)

accrued and unused vacation leave, (ii) accrued and unused administrative leave, and (iii) earned and unused floating holidays.

e. For Cause Defined. Cause shall be defined to include, but shall not be limited to, any of the following: (a) willful and insubordinate refusal to follow or carry out a lawful directive of the City Council given at a City Council meeting; (b) repeated unexcused absences from the City Manager's office and duties; (c) material violation of City Council adopted policy; (d) conviction of a felony or a misdemeanor crime involving acts of moral turpitude under California law; (e) use or possession of illegal drugs; (f) breach of this Agreement.

f. Communications Upon Separation. In the event the City terminates Haussler for Cause or Without Cause, the City and Haussler agree that no member of the City Council, the City Executive Management staff, nor Haussler, shall make written, oral, or electronic statements at any public meeting or to any member of the public or the press concerning the termination except in the form of a joint press release or statement, the content of which is mutually agreeable to the City and Haussler. The joint press release or statement shall not contain any text or information that is disparaging to either party. Either party may verbally repeat the substance of the joint press release or statement in response to any inquiry.

g. Release and Waiver for Severance. In exchange for the severance compensation Haussler hereby expressly releases the City and waives any and all rights he may have under any applicable law, City policy, or otherwise to bring a claim or file a complaint relating to his termination or an alleged breach of this Agreement, or otherwise appeal or grieve his termination and the terms of this Agreement.

h. Abuse of Office. In the event that Haussler is convicted of a crime involving an abuse of his office or position, as defined in California Government Code section 53243.4, Haussler shall be required to fully reimburse the City in accordance with California Government Code sections 53243, 53243.1, 53243.2 and/or 53243.3.

7. Notice of Voluntary Resignation. Haussler shall provide City written notice of his intent to voluntarily resign or retire as the City Manager at least sixty (60) days prior to his intended final date of employment by the City. If Haussler resigns or retires voluntarily (without a request from City Council to resign), Haussler shall not be entitled to severance compensation and benefits under Section 6 herein.

8. Benefits and Allowances. During the Term of this Agreement, Haussler shall continue to receive all of City's best miscellaneous executive management benefits for PERS retirement, annuities, deferred compensation, life and other insurance, expense and reimbursement allowances, medical, dental and vision plans, automobile allowances, sick leave, vacation, compensatory time off, credit union, worker's compensation and similar subsequent or replacement benefits, all in accordance with the terms and conditions thereof as adopted or approved by the City Council.

9. Professional Meetings. Haussler is expected to attend appropriate professional meetings at local and state levels and meetings necessary to maintain professional certifications and shall be reimbursed for the expense of attending those meetings.

10. Expense Reimbursement. City shall reimburse Haussler for actual and necessary expenses incurred within the scope of employment in accordance with City's reimbursement schedules and policies.

11. Notices. Any notices required or permitted by this Agreement shall be in writing and shall be personally served or shall be sufficiently given and deemed served upon the other party if sent by United State Postal Service, first class postage prepaid, and addressed as follows:

TO CITY: City Council
c/o City Attorney City of
Clovis 1033 Fifth Street
Clovis, CA 93612

TO EMPLOYEE: Andrew Haussler
City Manager City of
Clovis
1033 Fifth Street
Clovis, CA 93612

Notices shall be deemed given as of the date of personal service or upon the date of deposit in the course of transmission with the US Postal Service.

12. Indemnification. In accordance with Government Code section 825, et seq., City shall defend, hold harmless, and indemnify Haussler against any claim or action against him arising out of an alleged act or omission occurring in the scope of his employment with the City, and Haussler shall reasonably cooperate in good faith in the defense. This provision is not intended to, and shall not operate to, expand the protections afforded to Haussler or the City's obligations as provided in Government Code 825 et seq., except that this Section shall operate as Haussler's standing written request to the City for defense and indemnity as required by Government Code section 825 for any and all claims or actions against him arising out of an alleged act or omission occurring in the scope of his employment with the City whether such claim is submitted or action commenced during or after his employment with the City.

13. General Provisions.

a. Governing Law and Venue. This Agreement and the rights and obligations of the parties shall be governed by and construed in accordance with the laws of the State of California. The parties also agree that, in the event of litigation, venue shall be the state or federal courts located in Fresno County, California.

b. Entire Agreement. This Agreement contains the entire agreement and understanding between Haussler and City with respect Haussler's employment as City Manager. There are no oral understandings, terms, or conditions, and neither party has relied upon any representation, express or implied, not contained in this Agreement.

c. No Assignment. Haussler may not assign or transfer any rights granted or obligations assumed under this Agreement.

d. Modification. This Agreement cannot be changed or supplemented orally. It may be modified or superseded only by a written instrument executed by both of the parties.

e. Severability. If any provision of this Agreement is held to be invalid or unenforceable by a court of competent jurisdiction, the remaining provisions of the Agreement shall continue in full force and effect.

CITY

By: _____
Vong Mouanoutoua, Mayor

CITY MANAGER

By: _____
Andrew Haussler

APPROVED AS TO FORM

_____
Scott G. Cross, City Attorney

4900-3493-0693 v.1.doc

# CITY of CLOVIS

## REPORT TO THE CITY COUNCIL

TO: Mayor and City Council

FROM: Administration Department

DATE: December 16, 2024

SUBJECT: Consider Update on the Request from the Building Industry Association of Fresno/Madera Counties, Inc. regarding the City of Clovis Major Water Facilities Fees from the August 5, 2024, Council Meeting to return within 120 days.

**Staff:** Andrew Haussler, Assistant City Manager
**Recommendation:** Consider Update and Provide Direction

ATTACHMENTS: None.

Assistant City Manager Andrew Haussler will provide a verbal presentation on this item.

Please direct questions to the City Manager's office at 559-324-2060.

# CITY of CLOVIS

## REPORT TO THE CITY COUNCIL

TO: Mayor and City Council

FROM: Administration

DATE: December 16, 2024

SUBJECT: Receive and File - Information from Second Public Hearing in City's Transition to District-Based Elections.

**Staff:** Briana Parra, City Clerk
**Recommendation:** Receive and File

ATTACHMENTS:
1. Demand Letter
2. Public Hearing Notice

**RECOMMENDATION**

For the City Council to receive and file information from the public hearing and City's demographer related to the City's transition from at-large to district-based elections. For Council to provide direction on whether the City's demographer should create draft maps for a five-member Council, a four-member Council with an elected Mayor, or both.

**EXECUTIVE SUMMARY**

On August 26, 2024, the City of Clovis received a demand letter (Attachment 1) claiming racially polarized voting exists in the City's elections in violation of the California Voting Rights Act ("CVRA"). Despite the lack of evidence of polarized voting in the City's elections, to avoid lengthy and costly litigation, on October 7, 2024, the Council adopted Resolution 24-110, to initiate the transition to district-based elections beginning with the November 2026 City Council Election. As part of the process of transitioning to district-based elections, the City is required to hold at least five public hearings to allow the public and Council the opportunity to provide input on the transition process and possible district maps.

The first public hearing was held on November 16, 2024. Tonight is the second of these five hearings, during which the City's demographer will present information to the Council and public about the process of the City's transition to district-based elections and the criteria for creating election districts. This hearing is strictly informational for the public and Council. No district maps have yet been created and no action is being requested from Council.

Staff is also requesting direction from Council on whether the City's demographer should create draft maps for a five-member Council with a two-year rotating Mayor, a four-member Council with an at-large, elected Mayor (4+1), or maps for both.

**BACKGROUND**

On August 26, 2024, the City of Clovis received a demand letter from the Southwest Voter Registration Education Project ("SVREP") claiming that racially polarized voting exists in the City's elections in violation of the California Voting Rights Act ("CVRA"). This letter further advised that the City had the choice to voluntarily convert from its current at-large election system to district-based elections - where Council members are elected by only the voters residing within the election district in which the candidate resides or face a legal challenge to its current at-large election system. Despite the lack of evidence of racially polarized voting or vote dilution in the City's elections, on October 7, 2024, the Council passed Resolution 24-110, declaring its intent to transition from an at-large election system to a district-based election system. This decision was primarily made to avoid what would likely be a prohibitively costly and unfavorable legal challenge to the City's at-large elections by SVREP.

Since the adoption of Resolution 24-110, the City has engaged an expert demographic firm, National Demographics Corporation ("NDC"), to assist the City with the process of converting to district-based elections. The City has also started public outreach related to the election transition process by creating a dedicated webpage, which will serve as a public resource for related information and communications.

The City's transition to election districts is mostly governed by Elections Code section 10010, pursuant to which, the City Council is required to hold at least five public hearings prior to approving a final election district map and adopting an ordinance to implement district-based elections. The first two hearings, known as "pre-map" hearings, occur prior to the City's development of any draft maps and are for the purpose of gathering public and Council input on the process and potential election districts. Thereafter, the next two hearings are for the public and Council to consider and provide input on any draft district maps. The last hearing is for the Council to adopt a final map setting forth the boundaries of the City's election districts. The City's demographer will assist the City throughout this process and will work with the City and Council to create draft maps for Council's consideration. Members of the public will also have the ability to submit maps for consideration, if they so choose.

Tonight's hearing is the second of the five hearings. During the hearing, the demographer will present information to the public and Council about the process of the City's transition to district-based elections and the criteria for creating election districts.

As a "pre-map" hearing, tonight's hearing is strictly informational. No draft maps have yet been created or will be considered, and no action is being requested from Council. However, Staff is requesting direction from Council on whether the City's demographer should crate draft maps for a five-member Council with a two-year rotating Mayor, a four-member Council with an at-large, elected Mayor (4+1), or maps for both.

**FISCAL IMPACT**

None.

**REASON FOR RECOMMENDATION**

Tonight's hearing is a continuation of the City's process of converting to district-based elections in accordance with Resolution 24-110.

**ACTIONS FOLLOWING APPROVAL**
Receive and file information provided in tonight's public hearing.

**CONFLICT OF INTEREST**
None.

Prepared by: Briana Parra, City Clerk

Reviewed by: City Manager

SHENKMAN & HUGHES, PC
Attorneys Malibu, California

28905 Wight Road
Malibu, California 90265
(310) 457-0970
kishenkman@shenkmanhughes.com

Received
AUG 26 2024
ADMN/CITYMGR

VIA CERTIFIED MAIL

August 23, 2024

Briana Parra - City Clerk
City of Clovis
1033 Fifth Street
Clovis, CA 93612

*Re: Violation of California Voting Rights Act*

I write on behalf of Southwest Voter Registration Education Project, its members residing within the City of Clovis ("Clovis" or "City"). Clovis relies upon an at-large election system for electing candidates to its governing board. Moreover, voting within the City is racially polarized, resulting in minority vote dilution, and, therefore, the City's at-large elections violate the California Voting Rights Act of 2001 ("CVRA").

The CVRA disfavors the use of so-called "at-large" voting – an election method that permits voters of an entire jurisdiction to elect candidates to each open seat. *See generally Sanchez v. City of Modesto* (2006) 145 Cal.App.4th 660, 667 ("*Sanchez*"). For example, if the U.S. Congress were elected through a nationwide at-large election, rather than through typical single-member districts, each voter could cast up to 435 votes and vote for any candidate in the country, not just the candidates in the voter's district, and the 435 candidates receiving the most nationwide votes would be elected. At-large elections thus allow a bare majority of voters to control *every* seat, not just the seats in a particular district or a proportional majority of seats.

Voting rights advocates have targeted "at-large" election schemes for decades, because they often result in "vote dilution," or the impairment of minority groups' ability to elect their preferred candidates or influence the outcome of elections, which occurs when the electorate votes in a racially polarized manner. *See Thornburg v. Gingles,* 478 U.S. 30, 46 (1986) ("*Gingles*"). The U.S. Supreme Court "has long recognized that multi-member districts and at-large voting schemes may operate to minimize or cancel out the voting strength" of minorities. *Id.* at 47; *see also id.* at 48, fn. 14 (at-large elections may also cause elected officials to "ignore [minority] interests without fear of political consequences"), citing *Rogers v. Lodge*, 458 U.S. 613, 623 (1982); *White v. Register*, 412 U.S. 755, 769 (1973).

"[T]he majority, by virtue of its numerical superiority, will regularly defeat the choices of minority voters." *Gingles*, at 47. When racially polarized voting occurs, dividing the political unit into single-member districts, or some other appropriate remedy, may facilitate a minority group's ability to elect its preferred representatives. *Rogers*, at 616.

Section 2 of the federal Voting Rights Act ("FVRA"), 42 U.S.C. § 1973, which Congress enacted in 1965 and amended in 1982, targets, among other things, at-large election schemes. *Gingles* at 37; *see also* Boyd & Markman, *The 1982 Amendments to the Voting Rights Act: A Legislative History* (1983) 40 Wash. & Lee L. Rev. 1347, 1402. Although enforcement of the FVRA was successful in many states, California was an exception. By enacting the CVRA, "[t]he Legislature intended to expand protections against vote dilution over those provided by the federal Voting Rights Act of 1965." *Jauregui v. City of Palmdale* (2014) 226 Cal. App. 4th 781, 808. Thus, while the CVRA is similar to the FVRA in several respects, it is also different in several key respects, as the Legislature sought to remedy what it considered "restrictive interpretations given to the federal act." Assem. Com. on Judiciary, Analysis of Sen. Bill No. 976 (2001-2002 Reg. Sess.) as amended Apr. 9, 2002, p. 2.

The California Legislature dispensed with the requirement in *Gingles* that a minority group demonstrate that it is sufficiently large and geographically compact to constitute a "majority-minority district." *Sanchez,* at 669. In *Pico Neighborhood Association v. City of Santa Monica* (August 24, 2023) 15 Cal.5th 292, the California Supreme Court recently confirmed this commonsense reading of the CVRA. *Also see* Assem. Com. on Judiciary, Analysis of Sen. Bill No. 976 (2001–2002 Reg. Sess.) as amended Apr. 9, 2002, p. 3 ("Thus, this bill puts the voting rights horse (the discrimination issue) back where it sensibly belongs in front of the cart (what type of remedy is appropriate once racially polarized voting has been shown).")

To establish a violation of the CVRA, a plaintiff must generally show that "racially polarized voting occurs in elections for members of the governing body of the political subdivision or in elections incorporating other electoral choices by the voters of the political subdivision." Elec. Code § 14028(a). The CVRA specifies the elections that are most probative: "elections in which at least one candidate is a member of a protected class or elections involving ballot measures, or other electoral choices that affect the rights and privileges of members of a protected class." Elec. Code § 14028(a). The CVRA also makes clear that "[e]lections conducted prior to the filing of an action … are more probative to establish the existence of racially polarized voting than elections conducted after the filing of the action." *Id.*

Factors other than "racially polarized voting" that are required to make out a claim under the FVRA – under the "totality of the circumstances" test – "are probative, but not necessary factors to establish a violation of" the CVRA. Elec. Code § 14028(e). These "other factors"

include "the history of discrimination, the use of electoral devices or other voting practices or procedures that may enhance the dilutive effects of at-large elections, denial of access to those processes determining which groups of candidates will receive financial or other support in a given election, the extent to which members of a protected class bear the effects of past discrimination in areas such as education, employment, and health, which hinder their ability to participate effectively in the political process, and the use of overt or subtle racial appeals in political campaigns." *Id.*

As of the most recent data released by the United States Census Department, Latinos comprise 30.5%, of the City's population of 120,124. Yet, Latino representation on the City's governing board has been sparse to non-existent.

The City's at-large system dilutes the ability of Latinos (a "protected class") – to elect candidates of their choice or otherwise influence the outcome of the City's elections. The City's election history is illustrative. In the 2022 election, for example, Martin Salas lost his bid for a seat on the Council despite significant support from Latino voters, due to a lack of support from non-Latino voters. Similarly, in the 2017 election Paulo Soares was supported by Latino voters but lost due to a lack of support from non-Hispanic white voters. This is not a phenomenon limited to the city council elections in Clovis; exogenous elections involving Latino candidates or choices that impact the rights and privileges of Latino voters, such as the 2022 elections for U.S. Senate and Insurance Commissioner, the 2018 elections for Secretary of State, Attorney General and Insurance Commissioner, and Propositions 227 (1998), 209 (1996) and 187 (1994) likewise reveal racially polarized voting in Clovis. These elections all evidence vote dilution which is directly attributable to the City's unlawful at-large election system.

At-large elections are well known to cause elected officials to "ignore [minority] interests without fear of political consequences." (*Gingles* 478 U.S. at 48, n. 14). What the Court of Appeal described in its recent decision in *Martinez v. City of Clovis* (2023) 90 Cal.App.5th 193 –finding that "as a matter of law the City violated its duty to 'administer its programs and activities relating to housing and community development in a manner to affirmatively further fair housing'" is one example of this effect. As the plaintiffs in *Martinez v. City of Clovis* explained in their Complaint, Clovis' failure to accommodate housing for low-income residents has had a discriminatory impact on Latinos and other persons of color.

As you may be aware, in 2012, we sued the City of Palmdale for violating the CVRA. After an eight-day trial, we prevailed. After spending millions of dollars, a district-based remedy was ultimately imposed upon the Palmdale city council, with districts that combine all incumbents into one of the four districts.

We likewise brought Clovis Unified School District's violation of the CVRA to its attention in June 2023. The Clovis Unified School District wisely scrapped its unlawful at-large

election system, avoiding the need for litigation. Yet, the City of Clovis did nothing to investigate its own compliance with the CVRA.

Given the racially polarized elections for the city council in Clovis, we urge the City to voluntarily change its at-large system of electing its City Council. Otherwise, on behalf of residents within the jurisdiction, we will be forced to seek judicial relief. Please advise us no later than October 14, 2024 as to whether you would like to discuss a voluntary change to your current at-large system.

We look forward to your response.

Very truly yours,

Kevin I. Shenkman

**City of Clovis**
1033 Fifth Street
Clovis, CA 93612

****PLEASE POST****
**NOTICE OF PUBLIC HEARING**

*The City of Clovis will hold a public hearing on December 16, 2024, to gather public input regarding the potential composition of City Council election district boundaries.*

The City Council of the City of Clovis is currently elected under an "at-large" election system, where Council members are elected by voters of the entire City. On October 7, 2024, the Council approved beginning the process to establish district-based elections beginning in 2026 in response to a threat of litigation related to the City's current at-large election system. In a district-based election system, each Council member must reside within the designated election district boundary and is elected only by the voters in that district.

On December 16, 2024, the City Council will hold a second public hearing to gather input on composition of potential election districts in accordance with Elections Code section 10010.

The public hearing is scheduled as follows:

| **DATE** | **TIME** | **LOCATION** |
|---|---|---|
| Monday,<br>December 16, 2024 | 6:00 p.m. or as soon thereafter as possible | City of Clovis City Council's Council Chamber<br>1033 Fifth Street<br>Clovis, CA 93612 |

The public is invited to participate and make comments during the public hearing. If you have any questions regarding this public hearing, please contact Briana Parra, City Clerk at 559-324-2060 or CityClerk@clovisca.gov.

**Attachment 2**

# CITY of CLOVIS

## REPORT TO THE CITY COUNCIL

TO: Mayor and City Council

FROM: Planning and Development Services

DATE: December 16, 2024

SUBJECT: Consider various items associated with ±37.92 acres of land located at the southeast corner of the N. Peach Avenue alignment and Behymer Avenue. DeYoung Properties and Gary Yamamoto, owners; DeYoung Properties, applicant; Juli Kutka, representative.

a. Consider Approval - Res. 24-__, A resolution of the City Council adopting an environmental finding of a Mitigated Negative Declaration and a Mitigation Monitoring and Reporting Program for Reorganization 311, Prezone 2024-006, Vesting Tentative Tract Map 6482, and Planned Development Permit 2024-002.

b. Consider Introduction - Ord. 24-___, R2024-006, An ordinance of the City Council approving a request to prezone the properties within the annexation area from the Fresno County AE-20 Zone District to the Clovis R-1-PRD Zone District.

c. Consider Approval - Res. 24-___, TM6482, A resolution of the City Council approving a vesting tentative tract map for a 266-lot single-family planned residential development.

d. Consider Approval - Res. 24-___, PDP2024-002, A resolution of the City Council approving a planned development permit for a 266-lot single-family residential development.

e. Consider Approval - Res. 24-___, RO311, A resolution of the City Council approving application for the Annexation of the Territory known as the Peach-Behymer Southeast Reorganization area (±37.92 acres).

**Staff:** Marissa Parker, Assistant Planner
**Recommendation:** Approve

ATTACHMENTS:
1. Draft Resolution CEQA
2. Draft Ordinance R2024-006
3. Draft Resolution TM6482
4. Draft Resolution PDP2024-002
5. Draft Resolution RO311
6. Proposed Development Standards for PDP2024-002
7. Proposed Park Amenity for PDP2024-002
8. Elevation and Floor Plans
9. Correspondence from Commenting Agencies
10. Initial Study Mitigated Negative Declaration and MMRP
11. Site Specific Service Plan

**RECOMMENDATION**

Staff and the Planning Commission recommends that the City Council approve each component of the Project as identified in the title.

**EXECUTIVE SUMMARY**

DeYoung Properties ("Applicant") proposes to annex ("RO311") and prezone ("R2024-006") the subject properties from Fresno County's AE-20 (Exclusive Agricultural, 20-acre minimum parcel size) Zone District to the Clovis R-1-PRD (Single-Family Planned Residential Development) Zone District. The annexation boundary consists of ±37.92 acres and is located on the south side of E. Behymer Avenue, between N. Minnewawa Avenue and the N. Peach Avenue alignment in the County of Fresno ("Property"). The Project includes ±36.92 acres of the proposed annexation area for the development of a 266-lot single-family subdivision, Tract Map 6482 ("TM6482"). A Planned Development Permit ("PDP2024-002") is required for the establishment of the proposed planned residential development to ensure a comprehensive development of high quality. The aforementioned entitlements are hereinafter collectively referred to as the "Project". The Project will include site improvements, including landscaping, sidewalks, public streets, and utility infrastructure. Approval of this Project would allow City staff to proceed with the annexation process with the Fresno Local Agency Formation Commission (LAFCo) and would allow the developer to continue processing a residential site plan review ("RSPR") entitlement and development drawings.

**BACKGROUND**

- General Plan Designation: Medium High Density Residential (7.1-20.0 DU/Ac.)
- Master Plan Designation: Heritage Grove Master Plan
- Existing Zoning: Fresno County AE-20 (Exclusive Agricultural)
- Proposed Zoning: R-1-PRD (Single-Family Planned Residential Development)
- Annexation Area: ±37.92 acres
- Project Size: ±36.92 acres
- Current Land Use: Single-Family Residence, Orchards, Partially Vacant
- Adjacent Land Uses:
  - North: Single-Family Residence, Orchards
  - South: Single-Family Residence, Orchards
  - East: Orchards

  - West: Single-Family Residence, Vacant
- Previous Entitlements: N/A

The Project site is in the City's Heritage Grove growth area and is currently within the County of Fresno's jurisdiction. The Project area has been planned in the City's general plan as a future Medium High Density Residential development, which allows for the development of single-family residences at a density of 7.1 to 20.0 dwelling units per acre. The Property is currently zoned Fresno County AE-20 (Exclusive Agricultural) and consists of two (2) single-family residences with about one-third (1/3) of the site consisting of almond orchards and the remainder of the site is vacant. Surrounding properties contain orchards, single-family residences, and vacant/ undeveloped land.

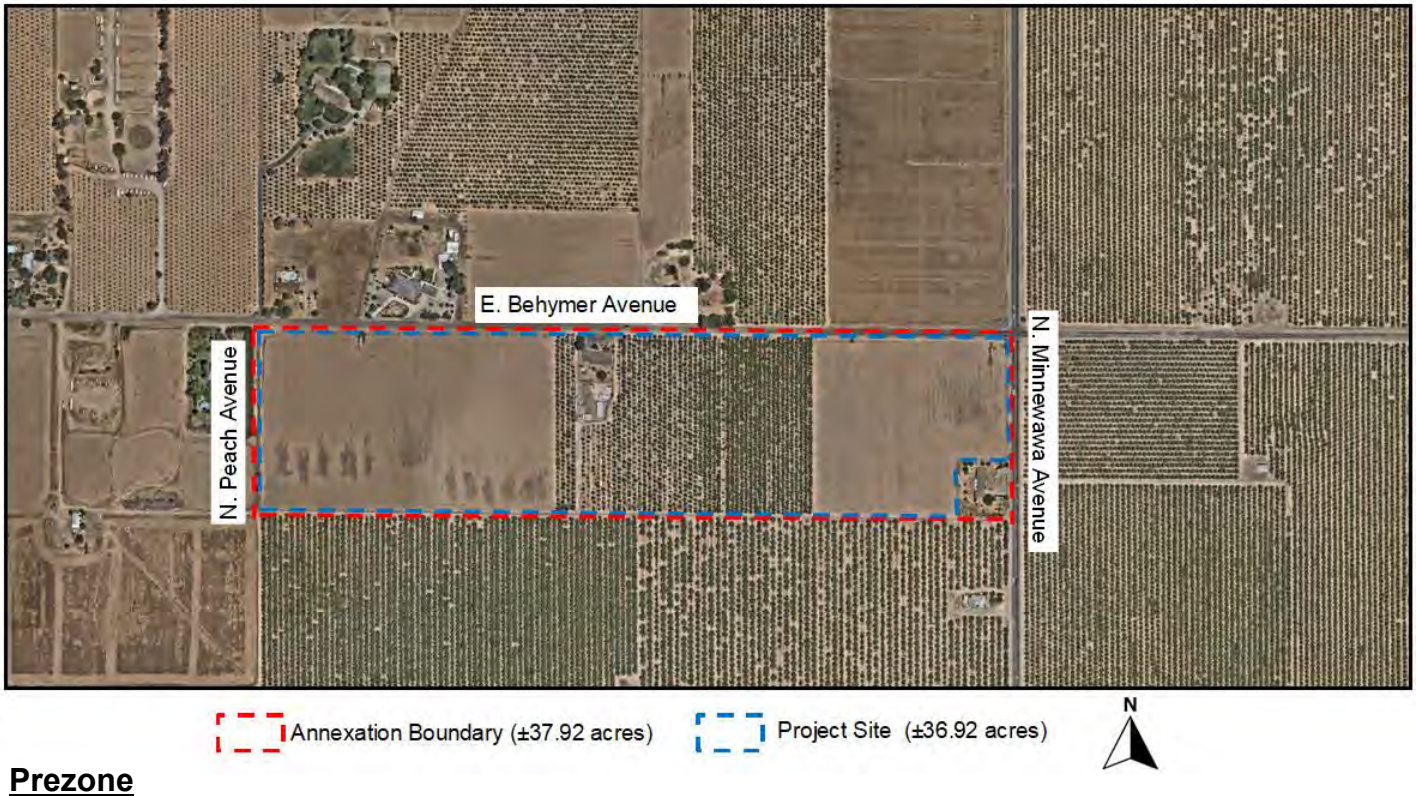
**PROPOSAL AND ANALYSIS**

As shown in **Figure 1** below, the proposed ±37.92-acre annexation boundary is situated on the south side of E. Behymer Avenue, between N. Minnewawa Avenue and the N. Peach Avenue alignment. The proposed development will occupy the entire parcel with Accessor's Parcel Numbers (APNs) 556-010-28 and 29. The remaining 1-acre parcel (APN 556-010-12) will not be incorporated as part of the proposed residential development but will be annexed into the City based on the need for a logical boundary per Fresno County and LAFCo annexation requirements. The area of annexation is contiguous with the City's current limits on the west side of the N. Peach Avenue alignment.

In addition to the annexation, the Project includes several planning entitlements, including a prezone, vesting tentative tract map, and planned development permit ("PDP"). The prezone will assign a City zoning district consistent with the City's General Plan land use designation. The tentative tract map is required to subdivide the property per the Subdivision Map Act and City standards. Additionally, the PDP is necessary to evaluate the unique development standards proposed and enhanced development features, such as architecture, landscaping, and amenities. If the Project is approved, a residential site plan review ("RSPR") is required to memorialize the design and layout of the homes. The RSPR will be reviewed at the staff level.

As mentioned above, the Project is within the City's Heritage Grove planned growth area. Heritage Grove encompasses ±2,560 acres of land bounded by Willow Avenue to the west, Sunnyside Avenue to the east, Copper Avenue to the north, and Shepherd Avenue to the south. The 2014 Clovis General Plan designates the Project site for residential use at Medium High density. The Project annexation area is planned to be converted to non-agricultural land pursuant to the 2014 General Plan.

**Figure 1 – Project Location**




## Prezone

As previously mentioned, the Project requires a prezone. The proposed prezone (R2024-006) will designate a City zone district of R-1-PRD (Single-Family Planned Residential Development) to the Project site. The R-1-PRD Zone District is appropriate for single-family small lot uses, including attached and detached single-family structures, and is applicable to the ±36.92 acre, 266-lot development. Additionally, the prezone encompasses the 1-acre property located adjacent to N. Minnewawa Avenue, which will also be prezoned to the Clovis R-1-PRD (Single Family Planned Residential Development) Zone District. The R-1-PRD Zone District is consistent with the General Plan Medium High Density land use designation.

*Prezone Required Findings and Analysis*

The subsequent findings are necessary to approve an application for prezone.

1. The proposed amendment is consistent with the goals, policies, and actions of the General Plan.

   *The proposed Prezone (R2024-006) conforms to the existing general plan designation of Medium High Density Residential for the parcels within the annexation area of 37.92 acres. As a general plan amendment is not proposed with this project, the proposed Prezone to R-1-PRD is consistent with the goals, policies, and actions of the General Plan.*

2. The proposed amendment would not be detrimental to the public interest, health, safety, convenience, or general welfare of the City.

*The Project is located within the City's designated growth area and has undergone comprehensive evaluation by multiple City departments and external agencies for feedback. Importantly, no significant concerns were raised by these stakeholders. Additionally, the Project's environmental impacts have been assessed through the accompanying Initial Study and Mitigated Negative Declaration included as* ***Attachment 10.***

3. The parcel is physically suitable (including absence of physical constraints, access, compatibility with adjoining land uses, and provision of utilities) for the requested zoning designations and anticipated land uses/ projects.

   *The proposed Project has undergone scrutiny through the City's preliminary application process (Development Review Committee), confirming the site's physical suitability for accommodating the proposed Project. A thorough review and routing of the applications determined that the Project will occupy and operate within an existing site that is physically suitable in size and compatible with planned surrounding uses. The Project will install the infrastructure required and necessary to support it. The Project will be required to comply with all conditions from Public Utilities and Engineering, which will further ensure the Project site is suitable for the proposed use. Site-specific details will be evaluated through the RSPR process.*

**Planned Development Permits**

The proposed R-1-PRD Zone District related to the development requires the associated PDP. As previously mentioned, PDPs are required for all planned residential developments (CMC § 9.10.010, subd. (B)(6).). The PDP process allows design flexibility and encourages innovative and superior site planning, culminating in a comprehensive development of high quality. Further details regarding the PDP are outlined below.

Development Standards

The PDP provides the flexibility to adjust or modify development standards, such as building coverage, height, setbacks, fence and wall heights, landscaping, open space, and street layout, where necessary and justifiable. **Table 1** below outlines the proposed development standards for each product type. While the applicant has provided models for each of their products, the proposed home models will be assessed against the established development standards and formalized through the RSPR process, which has been included as a condition of approval for the TM and PDP.

## Table 1 – Planned Development Permit Development Standards

| Standard | Housing Products | | Typical City Standards R-1-MD (Medium High Density) |
|---|---|---|---|
| | Discover/Compass (177 lots) | Freedom (89 lots) | |
| Minimum Lot Size (Square Feet) | 2,223 | 2,090 | 4,500 |
| Minimum Parcel Width | 39 feet | 36 feet | 50 feet |
| Minimum Curved Parcel Width | 25 feet | 20 feet | 50 feet |
| Minimum Corner Parcel Width | 25 feet | 20 feet | 50 feet |
| Minimum Parcel Depth | 57 feet | 53 feet | 90 feet |
| Maximum Lot Coverage | 65 % | 65% | 45% |
| Maximum Height | 2-stories not to exceed 35 feet | | |
| Front (Garage) Setback | 18 feet | 18 feet | 20 feet |
| Front (Living) Setback | 5 feet | 5 feet | 15 feet |
| Setback to Projections and/or Porch/ Patio | 4 feet | 4 feet | 15 feet |
| Garage Side Setback | 5 feet | 5 feet | 5 feet |
| Corner Street Side Setbacks | 3 feet | 3 feet | 10 feet |
| Reversed Corner Street Side Setback | 8 feet | 8 feet | 15 feet |
| Corner Street Side Fence Setback | 3 feet | 3 feet | 15 feet |
| Interior Side Yard Setback (opposite from garage) | 3 feet | 3 feet | 5 feet |
| Rear Setback | 5 feet | 5 feet | 15 feet |
| Garages | • 20'x20' interior dimension (2-car)<br>• 10'x20' interior dimension (1-car) | • 20'x20' interior dimension (2-car)<br>• 10'x20' interior dimension (1-car) | 20'x22' interior dimension (2-car) |

**Table 1** above delineates alterations to the customary development criteria associated with the Medium Density Zone District (R-1-MD). Although the R-1-MD Zone District isn't consistent with the Medium High Density land use designation, it represents the smallest lot sizes accommodated by traditional single-family residential zone districts and therefore was utilized for comparison. The utilization of Planned Residential Developments approved through the PDP process is required to achieve single-family development in the Medium High Density land use designation as identified in Table LU-3 of the City's General Plan. The table above categorically presents various development standards, including the applicant's proposed standards for each of their proposed development types (Discover, Compass, and Freedom). For comparison, the last column of the table provides standards for the R-1-MD Zone District. The information listed above demonstrates that the development standards requested primarily consist of reductions in listed standards, such as lot size, parcel configuration, setbacks, garage sizes, and an increase in the maximum lot coverage. Furthermore, the Compass and Freedom products will include a total of two (2) home models featuring a single-car garage, whereas it is typical for a single-family home to provide a 2-car garage. In this instance, single-car garage layouts would make up 32 of the 266 lots within the subdivision.

It's important to emphasize that, to ensure adequate side yard access and proper storage for trash toters, the Project proposes a minimum setback of five (5') feet for all garage-side setbacks. Additionally, the Project is conditioned to provide an all-weather surface for the placement and

storage of trash receptacles, extending from the 5-foot side yard (garage side) to the front of the property. These proposed development standards are in line with recent projects approved under the PDP process. As indicated above, the existing Medium High Density general plan designation requires a minimum of seven (7) dwelling units per acre and adjustments to development standards are necessary to stay within the required density range and provide open space and walkability within the Project.

Proposed Amenities

Chapter 9.66 of the CMC (Planned Development Permits) offers a framework for flexibility in development standards to accommodate various development types that may not conform to standard regulations. Within this context, planned residential developments are mandated to provide a program of public amenities commiserate to the deviations being requested. Amenities may include but are not limited to features such as open space and improvements to the existing public facilities such as parks and trails. It's important to note that PDP amenities are assessed on a project-by-project basis, as each development is unique in terms of its scale, location, and context.

In exchange for requested concessions, such as reduced lot sizes, setbacks, increased lot coverage, and non-standard garages, the applicant proposes a range of project amenities aimed at benefiting both homeowners and the wider community. These amenities include a large ±32,947 square foot neighborhood park featuring a spacious turf area, a ±289 square foot shade structure, ADA-compliant picnic tables, multiple Adirondack chairs, two (2) playground areas for children ages 2-5 and 5-12, concrete seat walls, and two (2) ping pong tables (see **Figure 2** below). The park consists of multiple tree types, including Crape Myrtle, Chinese Pistache, and Oak trees. The neighborhood park is complete with a concrete sidewalk surrounding it and providing access to and from the park.

The park will be accessible to both the public and subdivision residents. It also includes public streets and sidewalks that will provide future connectivity to potential developments to the south, enhancing the park's accessibility to surrounding areas. Given the park's design and its intended usability, it has been determined that no additional offsetting requirements, such as contributions to offsite amenities, are necessary. If approved, the park will be annexed into the City's Landscape Maintenance District and maintained by the City. City staff from Planning, Engineering, and Public Utilities have met and no concerns were raised based on the design of the proposed park. The specific details of the park will be evaluated through the civil review process for compliance with the CMC and water efficient landscape ordinance ("WELO").

**Figure 2 – Conceptual Park Design**




In addition to the requirement for proportional amenities, approval of a planned development permit necessitates the demonstration of superior development quality compared to what could be achieved through conventional development practices on the site. This might entail enhancements such as upgraded entry points, embellished block walls along street frontages, and superior exterior elevation design. These features are typically integrated into the proposed planned development projects by the applicant, subject to review and approval during the civil plan review process and residential site plan evaluation for individual lots.

*Planned Development Permit Required Findings and Analysis*
The required findings for the approval of a PDP application and staff's response to each of those findings are listed below. (CMC § 9.66.060.)

1. The PDP would:

   a. Be allowed within the subject base zoning district

      *The proposed Planned Development Permit (PDP2024-002) is permissible within the R-1-PRD Zone District, which is proposed concurrently with the prezoning of the Project development site.*

   b. Be consistent with the purpose, intent, goals, policies, actions, and land use designations of the General Plan and any applicable specific plan.

      *The Project proposes a single-family residential development consistent with the established land use of the General Plan. Policy 3.6 of the Land Use*

*Element of the general plan encourages a mix of housing types, unit sizes, and densities. The Project would comply with Policy 3.6 by providing a housing product that adds to the variety of housing stock within the City.*

c. Be generally in compliance with all of the applicable provisions of this Development Code relating to both on- and off-site improvements that are necessary to accommodate flexibility in site planning and property development and to carry out the purpose, intent, and requirements of this chapter and the subject base zoning district, including prescribed development standards and applicable design guidelines.

*The Project incorporates measures to construct both on-site and off-site improvements in accordance with the City's adopted infrastructure master plans and the standards outlined in the 2014 General Plan. The design of these improvements aligns with the proposed Project development standards and land use changes as outlined in the staff report.*

d. Ensure compatibility of property uses within the zoning district and general neighborhood of the proposed development.

*As mentioned previously, the existing site consists of two (2) single-family residences with about one-third (1/3) of the Project site consisting of almond orchards and the remainder of the site is vacant. The Project site is surrounded by primarily agricultural uses designated for future residential development at varying densities. The Project is located within the Heritage Grove planned growth area. Although the Project is proposing to convert agricultural land to residential uses, this conversion is consistent with the 2014 General Plan. Upon completion, the Project will not be consistent with the existing rural residential properties and orchards that currently exist in the surrounding area. However, the Project will be consistent with future single-family development at Medium High Density, per the General Plan land use designation.*

2. The proposed Project would produce a comprehensive development of superior quality (e.g., appropriate variety of structure placement and orientation opportunities, an appropriate mix of structure sizes, high-quality architectural design, increased amounts of landscaping and open space, improved solutions to the design and placement of parking facilities, incorporation of a program of enhanced amenities, etc.) than which might otherwise occur from more traditional development applications.

*The Project integrates design elements that elevate its quality beyond traditional developments. Notably, it includes amenities like a ±0.75-acre neighborhood park and community corner paseos at the corners of N. Peach and E. Behymer Avenues and N. Minnewawa and E. Behymer Avenues. The architectural design of the model*

*homes will undergo thorough evaluation during the residential site plan review process to ensure high quality.*

3. Proper standards and conditions have been imposed to ensure the protection of the public health, safety, and welfare.

   *The proposed PDP (PDP2024-002) will comply with the CMC, all Fire Department standards, and Building Code regulations to ensure adherence to public health and safety requirements.*

4. Proper on-site traffic circulation and control is designed into the development to ensure protection for fire suppression and police surveillance equal to or better than what would normally be created by compliance with the minimum setback and parcel width standards identified in Division 2 of this title (Zoning Districts, Allowable Land Uses, and Zone-Specific Standards).

   *The proposed PDP2024-002 will adhere to the standards set by the Fire Department and the requirements of the City Engineer concerning fire suppression measures and enhancements to traffic flow related to TM6482.*

5. The subject parcel is adequate in terms of size, shape, topography, and circumstances to accommodate the proposed development.

   *The proposed Project has undergone scrutiny through the City's preliminary application process (Development Review Committee), confirming the Project site's physical suitability for accommodating the proposed Project. Additionally, the Project site is physically suitable in size and compatible with surrounding uses. The Project will be required to install the infrastructure required and necessary to support it. The Project will be required to comply with all conditions from the Public Utilities and Engineering Departments, which will further ensure the Project site is suitable for the proposed use. Site-specific details will be evaluated through the RSPR process.*

6. The design, location, operating characteristics, and size of the proposed development would be compatible with the existing and future land uses in the vicinity, in terms of aesthetic values, character, scale, and view protection.

   *As indicated above, the proposed PDP2024-002 is compatible with the planned adjacent land uses. In regard to view protection, the PDP proposes a maximum height for the homes that is consistent with that prescribed under the comparable single-family residential Zone Districts. The proposed development will process an RSPR application, where aesthetics and design will be evaluated in compliance with the Development Code.*

**Vesting Tract Map**

The Project encompasses a ±36.92-acre development site and is associated with TM6482, provided as **Attachment 3B**. TM6482 consists of 266 residential lots and three (3) outlots, which are allocated for amenities and open space. Further specifics regarding the vesting tentative tract map are detailed below.

Lot Details

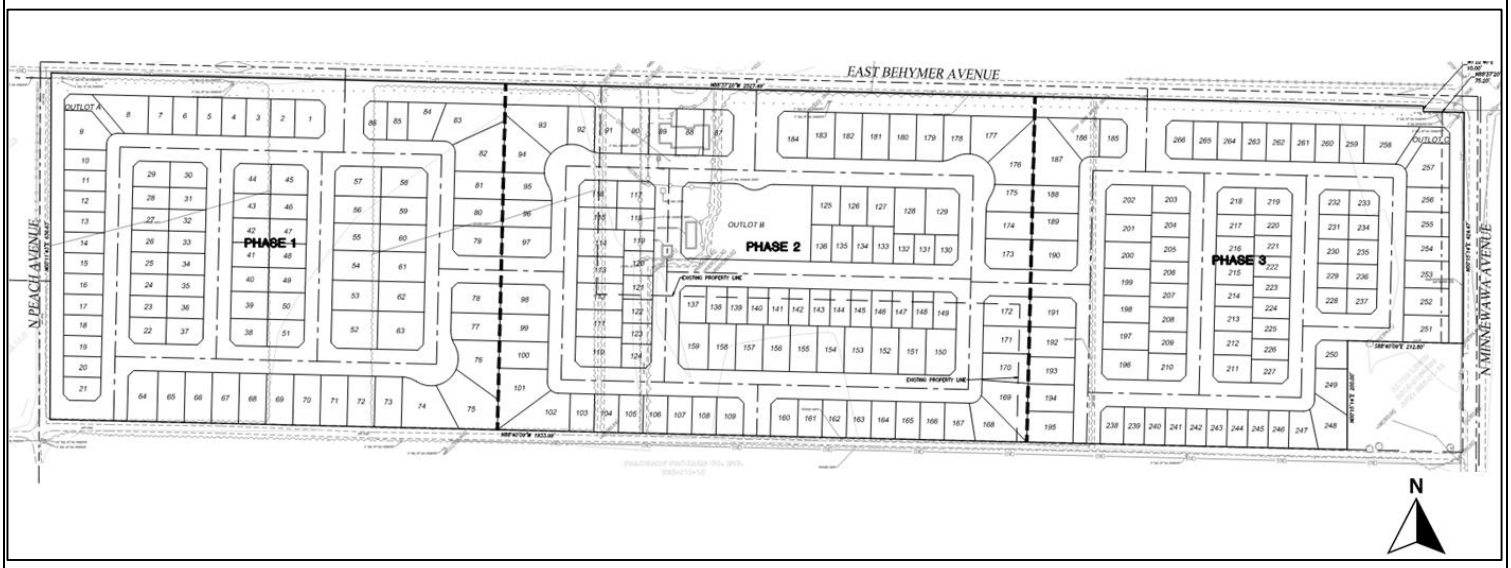
The Project is proposing 266 lots, ranging from ±2,090 square feet to ±8,434 square feet, with an average size of ±3,682 square feet. The tract map is organized in three (3) phases. The Project proposes three different products, the Discover, Compass, and Freedom products. This Project includes a mixture of all three product types in each of the three phases. The Discover and Compass product lines include 177 lots and offer the same development standards and lot sizes. The minimum lot size for the Discover and Compass lots is ±2,223 square feet and the largest lot is ±7,933 square feet. The Freedom product line contributes to 89 of the 266 lots with a minimum lot size of ±2,090 square feet and a maximum of ±8,434 square feet. It is important to note that each of the 266 lots provides a minimum 18-foot setback to the garage. This setback is consistent with the CMC standards for driveways on public streets.

These specific product types present distinctive lot sizes that differ from the standard single-family zone districts outlined in the Municipal Code. The PRD designation permits these unique lot sizes, along with specific development standards, as detailed in the PRD section of the report. While the lot sizes are unique, this type of development is similar to other planned residential developments within the City of Clovis.

Circulation

As shown in **Figure 3** below, the Project aims to improve general circulation in the area by upgrading existing streets and constructing new ones, including local streets within the proposed development. The Project will enhance the sections of E. Behymer Avenue and N. Minnewawa Avenue that bound the property to meet city standards. Furthermore, the Project will be constructing the N. Peach Avenue alignment in accordance with the CMC and Heritage Grove Design Guidelines. The Project would be accessed via three (3) ingress/egress access points to the proposed development from E. Behymer Avenue and one (1) ingress/egress access point from the N. Peach Avenue alignment. Furthermore, the Project will provide internal 50-foot-wide public streets with sidewalks throughout the subdivision, designed to accommodate parking on both sides. Moreover, the project has been designed to provide future street connectivity to the potential development to the south as well as the remainder 1-acre area included as part of the annexation for this Project.

**Figure 3 – Proposed TM6482**




Sewer and Water Impact

The Project's impacts to water and sewer facilities were analyzed during the California Environmental Quality Act (CEQA) review. Provost and Pritchard, the City's water system consultant, provided a summary of water system impacts and concluded that the City has capacity to serve and that infrastructure can accommodate the Project upon completion of the recommended connections. The City Engineer completed a sewer analysis and concluded that the City has the capacity to accommodate the Project. The Project lies within the Fresno Irrigation District (FID) boundary and therefore, is eligible to utilize entitled surface water from the Kings River.

Heritage Grove Thematic Elements

The City's 2014 General Plan directed the preparation and adoption of a comprehensive design document for the Heritage Grove area. As a result, the Heritage Grove Design Guidelines were developed and adopted on December 5, 2016. The document is intended to build upon the merits of the distinctive area that contains a unique and valuable agricultural and cultural heritage and to provide a vision and guidance for its future development and sustainability. The design document establishes an overall agricultural theme and quality for Heritage Grove. It illustrates and directs the intended architectural, landscape, and site elements to reinforce the theme and quality. Criteria and examples of design and treatments are provided throughout the document.

The proposed development is required through the Heritage Grove Design Guidelines to install two (2) community corner paseos at the southeast corner of E. Behymer and N. Peach Avenues and the southwest corner of E. Behymer and N. Minnewawa Avenues. The previously approved TM6343, located at the southwest area of Behymer Avenue and the Sunnyside Avenue alignment, will likely be the first development to design and install this type of the corner gateway feature. The final design as established with TM6343 will be carried out with this development.

Vesting Tentative Tract Map Required Findings and Analysis

The following are findings required to approve a vesting tentative tract map. (CMC §§ 9.102.060, subd. (A), and 9.102.110, subd. (C).)

1. The proposed map, subdivision design, and improvements are consistent with the General Plan and any applicable specific plan.

   *The proposed map (TM6482) design maintains consistency with both the General Plan and the proposed PDP. The Project meets various goals and polices of the General Plan as stated in the Consistency with General Plan Goals and Policies section of this report. All improvements will adhere to the conditions of approvals and City standards. The specifics of these improvements will undergo scrutiny during the City's civil plan review process to ensure compliance with standards.*

2. The site is physically suitable for the type and proposed density of development.

   *Refer to number 5 of the Findings for Planned Development Permit section.*

3. The design of the subdivision and the proposed improvements are not likely to cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat.

   *As described in the Initial Study/Mitigated Negative Declaration prepared for the Project (**Attachment 10**), environmental impacts were determined to be less than significant with the implementation of mitigation measures. Consequently, the Project is not anticipated to inflict substantial environmental harm or endanger fish and wildlife.*

4. The design of the subdivision or type of improvements is not likely to cause serious public health or safety problems.

   *The design of the Project will comply with the Development Code, Fire Department standards and Building Code regulations to ensure adherence to public health and safety requirements. Furthermore, during the review of the Project, agencies and City departments had the opportunity to review the Project to ensure consistency with City codes and regulations and no serious public health or safety concerns were identified. Therefore, the Project was determined not to be detrimental to the public interest, health, safety, or general welfare of the City.*

5. The design of the subdivision or the type of improvements will not conflict with easements acquired by the public at large for access through or use of property within the proposed subdivision. This finding may also be made if the review authority finds that alternate easements for access or use will be provided, and that they will be substantially equivalent to ones previously acquired by the public. This finding shall apply only to easements of record, or to easements established by the judgment of a court of competent jurisdiction, and no authority is hereby granted to

the review authority to determine that the public at large has acquired easements of access through or use of property within the proposed subdivision.

*During the final map review process conducted by the City's Engineering Division, all easements will be identified. Additionally, during the final map review, the City Engineer and other outside agencies will ensure that no conflicts with easements would occur as a result of the Project. As needed, alternate easements will be found that will be substantially equivalent to those previously required in TM6482.*

6. The discharge of sewage from the proposed subdivision into the community sewer system will not result in violation of existing requirements prescribed by the California Regional Water Quality Control Board.

   *The City Engineer has determined that the City has the capacity to accommodate the proposed Project. Installation of sewer lines within the proposed subdivision and beyond its borders will adhere to the regulations set forth by the California Regional Water Quality Control Board.*

7. The design of the subdivision provides, to the extent feasible, passive or natural heating and cooling opportunities.

   *The proposed subdivision will comply with the CMC and California Building Code requirements, as it relates to heating and cooling opportunities within TM6482.*

8. The proposed subdivision, its design, density, and type of development and improvements conform to the regulations of this Development Code and the regulations of any public agency having jurisdiction by law.

   *The proposed subdivision is comprised of single-family housing, consistent with the prescribed land use outlined in the General Plan. The proposed R-1-PRD Zone District allows for the proposed use and PDP development standards. The proposed development will process an RSPR application, where aesthetics and design will be evaluated in compliance with the Development Code and established PDP development standards.*

**Annexation**

While the Project site encompasses ±36.92 acres, a slightly larger 37.92-acre annexation area is proposed after consultation with LAFCo staff to establish a logical boundary for incorporation. The proposed annexation is titled RO311, Peach-Behymer Southeast Reorganization Area. The proposed annexation boundary includes three (3) properties planned for future residential development. If approved by the City Council, the annexation will proceed to LAFCo for processing and final consideration. Development of the Project cannot occur without the completion of the annexation process.

*Annexation Details:*

| | |
|---|---|
| Property owners: | 3 |
| Owners Consenting to Annexation: | 2 |
| Registered Voters: | 5 |
| Acreage: | ±37.92 |

*Standard Conditions of Annexation:*

The City established standard baseline conditions for annexation projects that are incorporated into the resolution for the proposed annexation (**Attachment 5**). These conditions encapsulate the mutually agreed upon tax-sharing arrangements between the City and Fresno County and the scheduling of public services for the annexation sites. A site-specific service plan has been prepared demonstrating the City's capacity to effectively serve the properties within the proposed annexation territory. The plan requires approval from the City Council and will be provided to Fresno LAFCo. The plan is provided in **Attachment 11** of this report.

**Consistency with General Plan Goals and Policies**

Staff has evaluated the Project in light of the goals and policies of the General Plan. The following goals and policies reflect Clovis' desire to maintain Clovis' tradition of responsible planning and well-managed growth to preserve the quality of life in existing neighborhoods and ensure the development of new neighborhoods with an equal quality of life. These goals and policies seek to foster more compact development patterns that can reduce the number, length, and duration of auto trips.

**Goal 3:** Orderly and sustainable outward growth into three Urban Centers with neighborhoods that provide a balanced mix of land uses and development types to support a community lifestyle and small-town character.

Policy 3.5 **Fiscal sustainability.** The City shall require the establishment of community facility districts, lighting and landscaping maintenance districts, special districts, and other special funding or financing tools in conjunction with or as a condition of development, building or permit approval, or annexation or sphere of influence amendments when necessary to ensure that new development is fiscally neutral or beneficial.

Policy 3.6 **Mix of housing types and sizes.** Development is encouraged to provide a mix of housing types, unit sizes, and densities at the block level.

**Goal 5:** A city with housing, employment, and lifestyle opportunities for all ages and incomes of residents.

Policy 5.1: **Housing variety in developments.** The Clovis General Plan has been planned to provide a variety of housing product types suitable to each stage of a person's life. Each development should contribute to a diversity of housing sizes and types within the standards appropriate to the land use designation. This policy does not apply to projects smaller than five acres.

**Planning Commission Hearing – November 21, 2024**

On Thursday, November 21, 2024, the Planning Commission considered the Project, with staff presenting the Project alongside its recommendations and detailed information as described in the staff report. One individual spoke in support of the project based on the design of the tract and features such as the park. Staff did not receive opposing comments from any of the surrounding property owners and no one spoke in opposition of the project during the hearing. After discussion, the Planning Commission voted to recommend that the Council approve the entitlements associated with the Project. All the items were approved with a vote of 4-0-1, with Chair Antuna absent.

**Public Comments**

The City published a notice of this public hearing in The Business Journal on Wednesday, December 2, 2024. A public hearing notice was sent to area residents within 1,500 feet of the Property boundaries for the December 16, 2024, City Council hearing. As of the completion of this staff report, staff has not received any comments from the public.

**Review and Comments from Agencies**

The Project was distributed to all City divisions as well as outside agencies, including Caltrans, Clovis Unified School District, Fresno Irrigation District, Fresno Metropolitan Flood Control District, AT&T, PG&E, San Joaquin Valley Air Pollution Control District, State Department of Fish and Wildlife, and the County of Fresno.

Comments received are attached (**Attachment 9**) only if the agency has provided concerns, conditions, or mitigation measures. Routine responses and comment letters are placed in the administrative record and provided to the Applicant for their records.

**Community Facilities District**

The fiscal analysis of the Heritage Grove Master Plan identified possible long-term funding shortfalls in the Clovis Citywide operating and maintenance costs. To address this issue the City of Clovis implemented a Community Facilities District. Community Facilities Districts (CFDs) are a means of providing additional funding for the provision of public facilities and services for public safety in newly developing areas of the community where the city would not otherwise be able to afford to continue to provide an adequate level of service as the City continues to grow. The use of CFDs is fairly common among cities in California experiencing high rates of growth, such as Clovis, due to significant losses of local revenue from tax shifts authorized by the State of California and the need to continue to provide an adequate level of service as growth occurs. A condition of approval has been added to this tentative map requiring participation in this vesting tentative map in the CFD.

**California Environmental Quality Act (CEQA)**

The City of Clovis has completed an Initial Study (see **Attachment 10**) assessing the Project's impact on natural and manmade environments, as required by the State of California. Staff is recommending approval of a mitigated negative declaration ("MND"). An MND is a written statement announcing that this project will not have a significant effect on the environment with the implementation of mitigation measures. The complete Initial Study/Mitigated Negative

Declaration is provided as **Attachment 10** and may also be found on the City's website at: https://cityofclovis.com/planning-and-development/planning/ceqa/.

In summary, environmental impacts were determined to be less than significant with the implementation of mitigation measures for greenhouse gas emissions, biological resources, cultural resources, transportation, vehicle miles traveled, and tribal cultural resources (See the Mitigation and Monitoring Program attached hereto as **Attachment 10**). The Notice of Intent to adopt an MND was posted to the City's website at the web address listed above (Cal. Code Regs., Tit.14, § 15072, subd. (b)(2).). The proposed MND was made available for public comment and review at the City's Planning and Development Services Department on October 31, 2024, and will conclude on November 30, 2024. (Cal. Code Regs., Tit. 14, § 15073, subd. (a).)

**FISCAL IMPACT**
None.

**REASON FOR RECOMMENDATION**
The proposed Project will provide diversity in housing types, contribute a quality residential product, and further advance growth within the Heritage Grove growth area as envisioned by the General Plan. The Project does not substantially impact sewer, water, or other public services and will contribute to its proportionate share of infrastructure and open space. The Project is consistent with the goals and policies of the General Plan and Development Code. Each component of the Project meets the findings that must be considered when making a decision on such a project, as outlined in the sections above. Staff, therefore, recommends that the City Council adopt an MND and mitigation monitoring and reporting program in accordance with CEQA, and approve RO311, R2024-006, TM6482, and PDP2024-002, subject to the conditions of approval provided in **Attachments 1A, 3A, 4A, and 5A.**

**ACTIONS FOLLOWING APPROVAL**
The annexation application will be prepared and submitted to LAFCo after all materials have been submitted by the applicant, sufficient to meet the conditions of the application.

**CONFLICT OF INTEREST**
None.

Prepared by: Marissa Parker, Assistant Planner

Reviewed by: City Manager

**RESOLUTION 24-___**

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS ADOPTING A MITIGATED NEGATIVE DECLARATION FOR REORGANIZATION 311, PREZONE 2024-006, VESTING TENTATIVE TRACT MAP 6482, AND PLANNED DEVELOPMENT PERMIT 2024-002, PURSUANT TO THE CALIFORNIA ENVIRONMENTAL QUALITY ACT GUIDELINES**

**WHEREAS,** DeYoung Properties, 677 W. Palmdon Drive, Suite 208, Fresno, CA 93704 ("Applicant"), has submitted various applications including for: a Reorganization ("RO311"), a Prezone ("R2024-006"), a Vesting Tentative Tract Map ("TM6482"), and a Planned Development Permit ("PDP2024-002") (hereinafter collectively referred to as the "Project") for a property located south of E. Behymer, between N. Minnewawa and N. Peach Avenues ("Property"); and

**WHEREAS**, the City of Clovis ("City") caused to be prepared an initial study (hereinafter incorporated by reference) to evaluate potential environmental impacts from the Project, and on the basis of that study, it was determined that no significant environmental impacts would result from this Project with the adoption of mitigation measures; and

**WHEREAS**, the City adopted a Supplemental Environmental Impact Report (SEIR) for the 2014 General Plan Circulation Element Update on October 17, 2022. The SEIR evaluated potential land uses consistent with the General Plan and their associated VMT impacts. The SEIR finds that implementation of the 2014 General Plan may result in VMT metrics that are greater than the applicable thresholds. Mitigation measures include policies to reduce VMT. Because the City cannot demonstrate that the implementation of these policies would achieve VMT reductions to meet the VMT thresholds, the impacts would remain significant and unavoidable. Therefore, following approval of the SEIR, individual land use development projects that are consistent with the 2014 General Plan have the opportunity to tier their environmental review from the General Plan SEIR. The SEIR has disclosed the VMT impacts of land use development consistent with the General Plan. Therefore, significant and unavoidable VMT impacts associated with the General Plan have already been disclosed. Because the proposed Project is consistent with the 2014 General Plan, the Project's significant transportation impact does not require a project specific EIR. Overall, the Project, as determined to be consistent with the 2014 General Plan, would result in a Significant and Unavoidable impact; and

**WHEREAS**, on the basis of this initial study, a proposed mitigated negative declaration has been prepared, circulated, and made available for public comment pursuant to the California Environmental Quality Act ("CEQA"), Public Resources Code, section 21000, et seq., and Guidelines for implementation of CEQA, 14 California Code of Regulations, sections 15000, et seq.; and

**WHEREAS**, the Planning Commission considered the Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program on November 21, 2024, recommending approval of said MND and MMRP; and

**WHEREAS**, the notice of intent to adopt a mitigated negative declaration was posted to City's website in accordance with CEQA Guidelines section 15072, subdivision (b)(2), and notice of the public hearing for this item was published with the *Fresno Business Journal* on December 2, 2024; and

**WHEREAS**, the City Council has independently reviewed, evaluated, and considered the CEQA analysis outlined in the staff report, initial study, mitigated negative declaration, mitigation monitoring and reporting program, and all comments, written and oral, received from persons who reviewed the mitigated negative declaration, or otherwise commented on the Project (Administrative Record).

**NOW, THEREFORE, BASED UPON THE ENTIRE RECORD OF THE PROCEEDINGS, THE CITY COUNCIL RESOLVES AND FINDS AS FOLLOWS:**

1. The foregoing recitals as true and correct.

2. The initial study and mitigated negative declaration for the Project are adequate, reflect the City's independent judgment and analysis, and have been completed in compliance with CEQA and the CEQA Guidelines.

3. The initial study and mitigated negative declaration were presented to the City Council and the City Council has independently reviewed, evaluated, and considered the initial study, mitigated negative declaration, mitigation monitoring and reporting program, and all comments, written and oral, received from persons who reviewed the initial study and mitigated negative declaration, or otherwise commented on the Project in the Administrative Record prior to approving the Project.

4. On the basis of the whole record, that there is no substantial evidence that the Project will have a significant effect on the environment with the adoption of the mitigation measures identified in **Attachment A**.

5. The mitigated negative declaration and the mitigation monitoring program set forth in **Attachment A**, including the mitigation measures identified therein and as described in the mitigated negative declaration itself are hereby adopted.

6. Directs that the record of these proceedings shall be contained in the Department of Planning and Development Services located at 1033 Fifth Street, Clovis, California 93612, and the custodian of the record shall be the City Planner or other person designated by the Planning and Development Services Director.

7. The Planning and Development Services Director, or his/her designee, is authorized to file a notice of determination for the Project in accordance with CEQA and to pay any fees required for such filing.

8. The basis for the findings is detailed in the December 16, 2024, staff report, which is hereby incorporated by reference in its entirety, the entire Administrative Record, as well as evidence and comments presented in connection with the mitigated negative declaration.

* * * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED: December 16, 2024

_____ _____

Mayor City Clerk

**ATTACHMENT A:**
**Mitigation Monitoring Program – TM6482**

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| ***Agriculture and Forestry Resources*** | | | | |
| AGR-1 | The Project applicant shall prepare or fund an agricultural resource evaluation prior to project approval. The resource evaluation shall use generally accepted methodologies (such as the Land Evaluation and Site Assessment Model) to identify the potentially significant impact of the loss of agricultural land. If the loss of agricultural land is determined to be a potentially significant impact, the resource evaluation shall consider the economic viability of future agricultural use of the property. If the agricultural resource is considered significant and future agricultural use is considered economically viable, the conversion will be deemed significant. The City shall require mitigation by one of the following methods:<br>• Mitigation at a 1:1 ration of converted to preserved acreage through a regional conservation easement, or payment of its valuation equivalent if a fee mitigation program is established. If 1:1 mitigation is determined to be economically infeasible, based upon all of the evidence, the ratio may be reduced to an economically feasible ratio or no further mitigation shall be required. This determination shall be made by the City's Director of Planning and | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | Development Services based upon substantial evidence in the record; or<br><br>• Other potential mitigation which achieves the same mitigating effect as the measures identified above, consistent with the CEQA Statutes and Guidelines. This determination shall be made by the City's Director of Planning and Development Services based upon substantial evidence in the record. | | | |
| AGR-2 | Pursuant to Clovis Municipal Code Section 9.40.170 and the California Civil Code Section 3482.5, prior to approval of building occupancy permits the Project developer shall provide residents of the Project site Right-To-Farm notifications. The Right-To-Farm notification would advise future occupants of the Project site that they are residing adjacent to agricultural land that has been active for three or more years and that they should expect continued activities associated with agricultural production. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| ***Air Quality*** | | | | |
| AIR-1 | Consistent with San Joaquin Valley Air Pollution Control District (SJVAPCD) Regulation VIII (Fugitive PM10 Prohibitions), the following controls are required to be included as specifications for the proposed project and implemented at the construction site: | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | • All disturbed areas, including storage piles, which are not being actively utilized for construction purposes, shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant or covered with a tarp or other suitable cover or vegetative ground cover.<br><br>• All on-site unpaved roads and off-site unpaved access roads shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant.<br><br>• All land clearing, grubbing, scraping, excavation, land leveling, grading, cut and fill, and demolition activities shall be effectively controlled of fugitive dust emissions utilizing application of water or by presoaking.<br><br>• When materials are transported off site, all material shall be covered, or effectively wetted to limit visible dust emissions, and at least 6 inches of freeboard space from the top of the container shall be maintained.<br><br>• All operations shall limit or expeditiously remove the accumulation of mud or dirt from adjacent public streets at the end of each workday. (The use of dry rotary brushes is expressly prohibited except where preceded or accompanied by sufficient wetting to limit the visible dust | | | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | emissions. Use of blower devices is expressly forbidden).<br><br>• Following the addition of materials to, or the removal of materials from, the surface of outdoor storage piles, said piles shall be effectively stabilized of fugitive dust emissions utilizing sufficient water or chemical stabilizer/suppressant. | | | |
| ***Biological Resources*** | | | | |
| BIO-1 | **Pre-Activity Surveys for Swainson's Hawk Nests.** If Project activities must occur during the nesting season (February 15 to August 31), pre-activity surveys shall be conducted for Swainson's hawk nests within 14 days prior to the start of construction. The surveys would be conducted within the Project site plus a 0.5-mile buffer. The survey shall be conducted in accordance with the methodology outlined in existing protocols. Note that Sawinson's hawks may establish a nest at any time from February through June; multiple Swainson's hawks nest surveys may be necessary in one season at the direction of a qualified biologist, depending on the timing of Project construction. If no Swainson's hawk nests are found, no further action is required. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-2 | **Swainson's Hawk Nest Avoidance.** If an active Swainson's hawk nest is discovered at any time within 0.5 mile of active construction, a qualified biologist shall complete an | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | assessment of the potential for current construction activities to impact the nest. The assessment shall consider the type of construction activities to impact the nest. The assessment shall consider the type of construction activities, the location of construction relative to the nest, the visibility of construction activities from the nest location, and other existing disturbances in the area that are not related to construction activities of this Project. Based on this assessment, the biologist shall determine if construction activities can proceed and if nest monitoring will be required. At a minimum, construction activities shall not occur within 100 feet of an active nest and shall require monitoring if within 500 feet of an active nest. These buffers may need to increase depending on the sensitivity of the nest location. | | | |
| BIO-3 | **Pre-Activity Nesting Bird Surveys.** If Project activities must occur during the nesting season (February 15 to August 31), pre-activity nesting bird surveys shall be conducted no more than 7 days prior to the start of construction at the construction site plus a 250-foot buffer for songbirds and a 500-foot buffer for raptors (other than Swainson's hawk). If no active nests are found, no further action is required; however, note that nests may become active at any time throughout the summer, including when construction activities are occurring. If active | | | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | nests are found during the survey or at any time during Project construction, an avoidance buffer ranging from 50 feet to 350 feet shall be required, as determined by a qualified biologist. The avoidance buffer shall remain in place until the biologist has determined that the young are no longer reliant on the nest. Work may occur within the avoidance buffer under the approval and guidance of the biologist. The biologist shall have the ability to stop construction if nesting adults show signs of distress. | | | |
| ***Cultural Resources*** | | | | |
| CULT-1 | If archaeological or tribal resources or materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.<br><br>If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | additional studies may include avoidance, testing, and evaluation or data recovery excavation.<br><br>If a potentially-eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met. | | | |
| CULT-2 | If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code and Project shall follow the procedures and protocols set for un CEQA Guidelines Section 15064.4(e)(1). If human remains are identified to be those of Native American, California Health and Safety Code 7050.5 requires the County coroner notify the NAHC within 24 hours of discovery. All reports, correspondence, and determinations regarding the discovery of human remains on the project site shall be submitted to the Lead Agency. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| ***Geological Resources*** | | | | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| GEO-1 | If prehistoric or historic-era cultural materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist and/or paleontologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.<br><br>If the qualified professional determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.<br><br>If a potentially-eligible resource is encountered, then the qualified professional archaeologist and/or paleontologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| ***Tribal Cultural Resources*** | | | | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| TCR-1 | If archaeological or tribal resources or materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.<br><br>If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.<br><br>If a potentially-eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| TCR-2 | If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | Health and Safety Code and Project shall follow the procedures and protocols set for un CEQA Guidelines Section 15064.4(e)(1). If human remains are identified to be those of Native American, California Health and Safety Code 7050.5 requires the County coroner notify the NAHC within 24 hours of discovery. All reports, correspondence, and determinations regarding the discovery of human remains on the project site shall be submitted to the Lead Agency. | | | |

**ORDINANCE 24-__**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CLOVIS CHANGING THE OFFICIAL ZONE MAP OF THE CITY OF CLOVIS IN ACCORDANCE WITH SECTION 9.080.020 OF THE CLOVIS MUNICIPAL CODE TO PREZONE APPROXIMATELY 37.92 ACRES FROM THE FRESNO COUNTY AE-20 ZONE DISTRICT TO THE CLOVIS R-1-PRD ZONE DISTRICT FOR PROPERTIES LOCATED SOUTH OF E. BEHYMER, BETWEEN N. MINNEWAWA AND N. PEACH AVENUES**

**WHEREAS,** DeYoung Properties, 677 W. Palmdon Drive Suite 208, Fresno, CA 93704 ("Applicant"), has applied for a Prezone ("R2024-006"); and

**WHEREAS,** the Applicant's request is to Prezone approximately 36.92 acres from the Fresno County AE-20 Zone District to the Clovis R-1-PRD Zone District in conjunction with its proposal to annex the subject property and develop the TM6482 project ("Project"), which would subdivide the subject property into approximately 266 residential lots; and

**WHEREAS**, after consultation with the Fresno Local Agency Formation Commission ("LAFCo") regarding the Applicant's proposal, the annexation boundary was expanded to encompass approximately 37.92 acres to create a logical boundary, creating the need to expand the rezoning application to include the full annexation boundary, including prezoning a property to the R-1-PRD Zone District ("Prezone"); and

**WHEREAS,** the Planning Commission held a duly noticed public hearing on November 21, 2024, to consider the Project approval, at which time interested persons were given opportunity to comment on the Project; and

**WHEREAS,** the Planning Commission voted and adopted a resolution recommending that the City Council approve R2024-006; and

**WHEREAS,** the Planning Commission's recommendations were forwarded to the City Council for consideration; and

**WHEREAS,** the City published a notice of public hearing in *The Business Journal* on December 2, 2024, and a public notice was sent out to area residents within 1,500 feet of said property boundaries twenty-one (10) days prior to said hearing; and

**WHEREAS,** the City Council held a duly noticed public hearing on December 16, 2024, to consider approval of R2024-006; and

**WHEREAS,** the City Council considered the California Environmental Quality Act ("CEQA") analysis outlined in the staff report, which is incorporated by this reference herein, and elsewhere in the Administrative Record which determines that the Project meets the requirements pursuant to CEQA Guidelines and recommends that the City Council adopt the mitigated negative declaration and mitigation monitoring and reporting program; and

**WHEREAS,** the City Council has had an opportunity to review and consider the entire Administrative Record relating to the Project, which is on file with the Department, and reviewed and considered those portions of the Administrative Record determined to be necessary to make an informed decision, including, but not necessarily limited to, the staff report and staff presentation, the written materials submitted with the request, and the verbal and written testimony and other evidence presented during the public hearing.

**NOW, THEREFORE, BASED UPON THE ENTIRE RECORD OF THE PROCEEDINGS, THE CITY COUNCIL FINDS AS FOLLOWS:**

1. The proposed prezone is consistent with the goals, policies, and actions of the adopted General Plan.

2. The proposed prezone would not be detrimental to the public interest, health, safety, convenience, or general welfare of the City.

3. The Property is physically suitable (including absence of physical constraints, access, compatibility with adjoining land uses, and provision of utilities) for the requested zoning designation and development of the Project.

4. The City Council finds on the basis of the initial study completed for the Project, a mitigated negative declaration has been prepared, circulated, and made available for public comment pursuant to the California Environmental Quality Act ("CEQA"), Public Resources Code, section 21000, et seq., and Guidelines for implementation of CEQA, 14 California Code of Regulations, sections 15000, et seq.

5. The basis and evidence for the findings are detailed in the December 16, 2024, staff report, which is hereby incorporated by reference, the entire Administrative Record, as well as the evidence and comments presented during the public hearing.

The City Council of the City of Clovis does ordain as follows:

Section 1 The official map of the city is amended in accordance with Section 9.08.020 and Chapter 9.86 of the Clovis Municipal Code by rezoning certain land in the City of Clovis, County of Fresno, State of California, to wit:

LEGAL DESCRIPTION:

See the attached **Attachment A**.

From the Fresno County AE-20 Zone District to the Clovis R-1-PRD (Single-Family Planned Residential Development) Zone District;

Section 2 This Ordinance shall go into effect and be in full force from and after thirty (30) days after its final passage and adoption.

APPROVED: December 16, 2024

_____ _____

Mayor City Clerk

* * * * * * * * * *

The foregoing Ordinance was introduced and read at a regular meeting of the City Council held on December 16, 2024, and was adopted at a regular meeting of said Council held on Date Adopted, by the following vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED: Date Adopted

_____

City Clerk

## Attachment A – Legal Description

THE LAND REFERRED TO IS SITUATED IN THE UNINCORPORATED AREA OF THE COUNTY OF FRESNO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

LOTS 5 AND 12 OF GARFIELD COLONY AS RECORDED IN VOLUME 2 OF RECORD OF SURVEYS AT PAGE 46 OF FRESNO COUNTY RECORDS, IN THE COUNTY OF FRESNO, STATE OF CALIFORNIA.

EXCEPTING THEREFROM THAT PORTION OF LOT 12 DESCRIBED AS FOLLOWS:
BEGINNING AT THE SOUTHEAST CORNER OF SAID LOT, THENCE WESTERLY ALONG THE SOUTH LINE OF SAID LOT, 217.8 FEET; THENCE NORTHERLY, PARALLEL WITH THE EASTERLY LINE OF SAID LOT, 200.00 FEET; THENCE EASTERLY PARALLEL WITH THE SOUTH LINE OF SAID LOT, 217.8 FEET; THENCE SOUTHERLY, ALONG THE EASTERLY LINE OF SAID LOT, 200.00 FEET TO THE POINT OF BEGINNING.

NOTE: FOR THE PURPOSES OF THIS DESCRIPTION, THE NORTH LINE OF LOTS 5 AND 12 IS ASSUMED TO BE PARALLEL WITH AND 20 FEET SOUTH OF THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 19, TOWNSHIP 12 SOUTH, RANGE 21 EAST, M.D.B&M. THE WEST LINE OF LOT 5 IS ASSUMED TO BE PARALLEL WITH AND 20 FEET EAST OF THE WEST LINE OF THE NORTHEAST QUARTER OF SECTION 19, TOWNSHIP 12 SOUTH, RANGE 21 EAST, M.D.B&M. THE EAST LINE OF LOT 12 IS ASSUMED TO BE PARALLEL WITH AND 20 FEET WEST OF THE EAST LINE OF THE NORTHEAST QUARTER OF SECTION 19, TOWNSHIP 12 SOUTH, RANGE 21 EAST, M.D.B&M.

**RESOLUTION 24-__**

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS APPROVING VESTING TENTATIVE TRACT MAP 6482 FOR A 266-LOT SINGLE-FAMILY SUBDIVISION ON APPROXIMATELY 36.92 ACRES OF PROPERTY LOCATED SOUTH OF E. BEHYMER, BETWEEN N. MINNEWAWA AND N. PEACH AVENUES**

**WHEREAS,** DeYoung Properties ("Applicant"), 677 W. Palmdon Drive Suite 208, Fresno, CA 93704, submitted the application for Vesting Tentative Tract Map 6482 ("TM6482") ("Project") for property located south of E. Behymer, between N. Minnewawa and N. Peach Avenues ("Property"); and

**WHEREAS,** the Planning Commission considered TM6482 on November 21, 2024 recommending approval of said map; and

**WHEREAS,** the Planning Commission's recommendations were forwarded to the City Council for consideration; and

**WHEREAS,** the City of Clovis published notice of the public hearing in the Fresno Business Journal on December 2, 2024 mailed public notices to property owners within 1,500 feet of the Property, twenty-one (21) days prior to said Planning Commission hearing, and otherwise posted notice of the Public Hearing in accordance with applicable law; and

**WHEREAS,** the proposed TM6482 was presented to the City Council for approval in accordance with the Subdivision Map Act and Chapter 102 of Title 9 of the Clovis Municipal Code (Development Code); and

**WHEREAS,** a duly noticed hearing was held on December 16, 2024, at which time the City Council considered TM6482; and

**WHEREAS,** the City Council has given careful consideration to this map on December 16, 2024, and considered the CEQA analysis outlined in the staff report and elsewhere in the Administrative Record which determines that said map meets the requirements pursuant to CEQA Guidelines and does adopt the mitigated negative declaration and the mitigation monitoring program for the Project; and

**WHEREAS**, the City Council has had an opportunity to review and consider the entire Administrative Record relating to TM6482, which is on file with the City of Clovis Department of Planning and Development Services, and reviewed and considered those portions of the Administrative Record determined to be necessary to make an informed decision, including, but not limited to, the staff report, the written materials submitted with the request, and the verbal and written testimony and other evidence presented during the public hearing, and the conditions of approval attached as **Attachment A** to this Resolution, which are incorporated herein by this reference ("Administrative Record").

**NOW, THEREFORE, BASED UPON THE ENTIRE RECORD OF THE PROCEEDINGS, THE CITY COUNCIL RESOLVES AND FINDS AS FOLLOWS:**

1. The City Council hereby approves TM6482 as shown in **Attachment B,** subject to the conditions of approval set forth in **Attachment A** to this Resolution.

2. TM6482 satisfies the required findings for approval of a Vesting Tentative Tract Map, as follows:

    a. The proposed map, subdivision design, and improvements are consistent with the General Plan and any applicable specific plan.

    b. The Project site is physically suitable for the type and proposed density of development.

    c. The design of the subdivision and the proposed improvements are not likely to cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat.

    d. The design of the subdivision or type of improvements is not likely to cause serious public health or safety problems.

    e. The design of the subdivision or the type of improvements will not conflict with easements acquired by the public at large for access through or use of property within the proposed subdivision.

    f. The discharge of sewage from the proposed subdivision into the community sewer system will not result in violation of existing requirements prescribed by the California Regional Water Quality Control Board.

    g. The design of the subdivision provides, to the extent feasible, passive or natural heating and cooling opportunities.

    h. The proposed subdivision, its design, density, and type of development and improvements conform to the regulations of the Development Code and the regulations of any public agency having jurisdiction by law.

3. Without the conditions of approval (**Attachment A** of this resolution), the City Council could not make the findings necessary for approval of TM6482 (attached and labeled **Attachment A**).

4. The basis for the findings is detailed in the December 16, 2024, staff report, which is hereby incorporated by reference, the entire Administrative Record, as well as the evidence and comments presented during the public hearing.

* * * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED: December 16, 2024

_____ _____

Mayor City Clerk

**Attachment A**
**Conditions of Approval – TM6482**
**Planning Division Comments**
(Marissa Jensen, Assistant Planner – 559-324-2338)

1. The developer shall comply with all mitigation measures identified in the Mitigation Monitoring and Reporting Program prepared for the Project, included as **Attachment 10** to the staff report.

2. TM6482 is approved per **Attachment B**.

3. This Project is subject to the development standards of the Heritage Grove Master Plan.

4. The proposed project shall produce a comprehensive development of superior quality than which might otherwise occur from more traditional development on the site which will be reviewed and approved through the civil plan review process and residential site plan review (RSPR).

5. The developer shall obtain City approval in advance of temporary and permanent subdivision signs through separate sign review, consistent with the development criteria of the Development Code Sign Ordinance.

6. No more than two of the same unit type (floor layout and exterior materials package) shall be repeated side by side. When two of the same units are repeated side by side, they shall be different colors. These identical provisions may be waived by the City Planner on a specific lot basis within the project when the size or configuration of a lot would otherwise prevent compliance with the above requirements of any other siting or setback/yard requirements established under this application. If such a waiver is requested, the developer and City Planner shall work together to ensure that any sitings of units not in compliance with the above requirements shall be of different materials and elevations in order to minimize any adverse visual impacts that may result.

7. TM6482 is subject to the development standards of Planned Development Permit (PDP) 2024-002 and any amendments thereafter**.** Any development standards not expressed within PDP2024-002 and TM6482 shall be subject to the underlying Zone District R-1-PRD Standards and Guidelines, and the Development Code.

8. A RSPR is required to memorialize building plans and elevations for the different product types of TM6482. Specific color and materials of the models, walls, amenities, landscaping, and fencing will be evaluated through the civil plans.

9. Setbacks shall be measured to the exterior face of the framing of the structure. Exceptions to the setbacks are identified in §9.24.100, of the Development Code.

10. Development standards for the lots of TM6482 shall be as follows:

| Standard | Housing Products | |
|---|---|---|
| | **Discover/Compass (177 lots)** | **Freedom (89 lots)** |
| Minimum Lot Size (Square Feet) | 2,223 | 1,836 |
| Minimum Parcel Width | 39 feet | 36 feet |
| Minimum Curved Parcel Width | 25 feet | 20 feet |
| Minimum Corner Parcel Width | 25 feet | 20 feet |
| Minimum Parcel Depth | 57 feet | 53 feet |
| Maximum Lot Coverage | 65 % | 65% |
| Maximum Height | 2-stories / 35 feet | 2-stories / 35 feet |
| Front (Garage) Setback | 18 feet | 18 feet |
| Front (Living) Setback | 5 feet | 5 feet |
| Setback to Projections and/or Porch/ Patio | 4 feet | 4 feet |
| Garage Side Setback | 5 feet | 5 feet |
| Corner Street Side Setbacks | 3 feet | 3 feet |
| Reversed Corner Street Side Setback | 8 feet | 8 feet |
| Corner Street Side Fence Setback | 3 feet | 3 feet |
| Interior Side Yard Setback (opposite from garage) | 3 feet | 3 feet |
| Rear Setback | 5 feet | 5 feet |
| Garages | 20’x20’ interior dimension (2-car)<br><br>10’x20’ interior dimension (1-car) | 20’x20’ interior dimension (2-car)<br><br>10’x20’ interior dimension (1-car) |

11. N. Peach Avenue is designated as a Neighborhood Boulevard and shall have a 20-foot landscape/pedestrian setback, with a 10-foot landscape, 6-foot walk, and 4-foot landscape buffer setback.

12. E. Behymer Avenue is designated as a Community Boulevard and shall have a 20-foot parkway, with a 10-foot landscape buffer adjacent to the right-of-way, 6-foot walk, and 4-foot landscape buffer setback.

13. N. Minnewawa Avenue is designated as a Thematic Street and shall have a 46-foot parkway, with a 8-foot landscape buffer adjacent to the right-of-way, 12-foot bike path, 6-foot landscape buffer, 12-foot trail, and 8-foot landscape buffer setback.

14. All internal local streets shall be a minimum of 50 feet in width as identified in **Attachment 3B**.

15. The developer shall construct a minimum six-foot high solid split face masonry wall along the north, west, and east perimeters of TM6482.

16. The developer shall utilize streetlights along local and private streets within the development area that are of the same design and luminosity as surrounding developments within Heritage Grove.

17. All lighting shall be screened from direct view from the public right-of-way and adjacent residential properties.

18. All landscaping (open space and private yards) shall conform to the City of Clovis Water Efficient Landscape Ordinance.

19. Landscape plans shall be reviewed and approved separately by the landscape review committee with the civil set for tree and landscape type and location.

20. All lots shall provide an all-weather surface and path for the placement and storage of trash toters. The paved path shall lead from the street to the fenced noncovered patio areas within the 5-foot side yard to the street.

21. Landscape features and forms within amenity areas shall be consistent with Heritage Grove Design Guidelines. Details shall be provided in the construction plan.

22. The applicant must provide a 0.75-acre pocket park with a spacious turf area, a 289 square foot shade structure, ADA compliant picnic tables, Adirondack chairs, two (2) playground areas for children ages 2-5 and 5-12 respectfully, concrete seat walls, and two (2) ping pong tables.

23. The developer shall design and install the Community Gateway (Community Corner Paseo) at the southeast corner of E. Behymer and N. Peach Avenues and the southwest corner of E. Behymer and N. Minnewawa Avenues. The Corner Paseo shall be designed to meet the intent outlined in the Heritage Grove Guidelines.

24. The developer shall record a Covenant regarding a “right to farm,” for adjacent property owners. Such agreement shall be disclosed to all future home buyers.

25. The applicant shall record a Notice of Nonconformance dealing with any structure used for model homes where the garage is converted for the use as a sales office.

26. Upon final recordation of this vesting tentative tract map, it shall be the applicant's responsibility to furnish to the Planning Department an electronic (PDF) copy of the original map obtained from the Fresno County Recorder's Office.

27. The applicant shall relay all conditions of approval for TM6482 to all subsequent purchasers of individual lots, if applicable, and/or to subsequent purchasers of this entire tract map development.

## Fire Department Conditions

(Rick Fultz, Fire Department Representative – 559-324-2224)

### Roads / Access

28. Two Points of Access: Any development to this parcel will require a minimum of two (2) points of access to be reviewed and approved by the Clovis Fire Department. All required access drives shall remain accessible during all phases of construction which includes paving, concrete work, underground work, landscaping, perimeter walls.

29. Street Width: Fire apparatus access width shall be determined by measuring from "base of curb" to "base of curb" for roadways that have curbs. When roadways do not have curbs, the measurements shall be from the edge of the roadway surface (approved all weather surface). Clovis Fire Standard #1.1

30. Street Width for Single Family Residences: Shall comply with Clovis Fire Standard #1.1

31. Minimum Access Road Width of 36 feet for Single Family Residences. Roads 36 feet or wider allow for Parking on both sides of street. Access roads near fire department access gates shall be a minimum of 20' in width and marked as fire lanes.

32. Turning Radius: All access way roads constructed shall be designed with a minimum outside turning radius of forty-five feet (45') Clovis Fire Standard #1.1

33. Temporary Street Signs: The applicant shall install temporary street signs that meet City Temporary Street Sign Standard #1.9 prior to issuance of building permits within a subdivision.

34. All Weather Access &Water Supply: The applicant shall provide all weather access to the site during all phases of construction to the satisfaction of the approved Clovis Fire Department Standard #1.2 or #1.3.

### Water Systems

35. Residential Fire Hydrant: The applicant shall install 18 4 ½" x 2 ½" approved Residential Type fire hydrant(s) and "Blue Dot" hydrant locators, paint fire hydrant(s) yellow with blue top and caps, and paint the curb red as specified by the adopted Clovis Fire Department Standard #1.4. Plans shall be submitted to the Clovis Fire

Department for review and approval prior to installation. The hydrant(s) shall be charged and in operation prior to any framing or combustible material being brought onto the site. Clovis Fire Standard #1.4. The locations shown on the current tract meet Clovis Fire Department Standard #1.4.

36. Looped Water Main: The applicant shall install approved looped water main capable of the necessary flow of water for adequate fire protection and approved by the Clovis Fire Department.

**Engineering / Utilities / Solid Waste Division Conditions**

(Sean Smith, Engineering Division Representative – 559-324-2363)
(Paul Armendariz, Department Representative – 559-324-2649)

**Maps and Plans**

37. The applicant shall have a final tract map prepared, in the form prescribed by the Subdivision Map Act and City of Clovis Municipal Code. The final tract map shall be submitted to the City of Clovis Engineering Division, and should include, but not be limited to, final tract map, the current filing fee, closure calculations, current preliminary title report, legal descriptions and drawings of required dedications.

38. The applicant shall submit separately to the City of Clovis Engineering Division, a set of construction plans on 24" x 36" sheets with City standard title block for all required improvements and a current preliminary title report. These plans shall be prepared by a registered civil engineer, and shall include a grading plan, landscape plan, a site plan showing trash enclosure locations and an overall site utility plan showing locations and sizes of sewer, water, storm drain, and irrigation mains, laterals, manholes, meters, valves, hydrants, fire sprinkler services, other facilities, etc. Plan check and inspection fees per City of Clovis Resolution No. 23-34 shall be paid with the first submittal of said plans. All plans shall be submitted at or before the time the building plans are submitted to the Building Division and shall be approved by the City and all other involved agencies prior to the release of any development permits.

39. Prior to the initial submittal of the improvement plans, the applicant shall contact Sean Smith at (559) 324-2363 to setup a coordination meeting (Pre-submittal Meeting).

40. Upon approval of improvement plans, the applicant shall provide the City with the appropriate number of copies. After all improvements have been constructed and accepted by the City, the applicant shall submit to the City of Clovis Engineering Division (1) digital copy to the City in PDF format of the approved set of construction plans revised to accurately reflect all field conditions and revisions and marked "AS-BUILT" for review and approval. Upon approval of the AS-BUILTs by the City, and prior to granting of final occupancy or final acceptance, the applicant shall provide to the City (1) digital copy in PDF format and two (2) bond copies.

41. The applicant shall comply with reporting requirements in accordance with Government Code 65940.1, which requires the City to, “request from a development proponent, upon issuance of a certificate of occupancy or the final inspection, whichever occurs last, the total amount of fees and exactions associated with the project for which the certificate was issued. The City shall post this information on its internet website, and update it at least twice per year.”

**General Provisions**

42. The applicant shall pay all applicable development fees at the rate in effect at the time of payment and prior to final map approval by Council or have the fees payable directly to the City through a separate escrow account at the time of recordation of the map.

43. The applicant is advised that, pursuant to California Government Code, Section 66020, any party may protest the imposition of fees, dedications, reservations, or other exactions imposed on a development project by a local agency. Protests shall be filed in accordance with the provisions of the California Government Code and shall be filed within 90 days after conditional approval of this application is granted. The 90 day protest period for this project shall begin on the “date of approval” as indicated on the “Acknowledgment of Acceptance of Conditions” form.

44. All reimbursement requests shall be prepared and submitted in accordance with the requirements of the current version of the “Developer Reimbursement Procedures” a copy of which may be obtained at the City Engineer’s Office.

45. The applicant shall install all improvements within public right-of-way and easements in accordance with the City of Clovis standards, specifications, master plans, and record drawings in effect at the time of improvement plan approval.

46. The applicant shall address all conditions, and be responsible for obtaining encroachment permits from the City of Clovis for all work performed within the City's right-of-way and easements.

47. The applicant shall submit a soils report or a waiver of soils report to the City of Clovis Engineering Division for approval by the City Engineer.

48. The applicant shall provide and pay for all geotechnical services per City policy.

49. The applicant shall comply with the requirements of the local utility, telephone, and cable companies. It shall be the responsibility of the applicant to notify the local utility, telephone, and cable companies for the removal or relocation of utility poles where necessary. The City shall not accept first submittals without proof that the applicant has provided the improvement plans and documents showing all proposed work to the utility, telephone, and cable companies. All utility vaults in which lids cannot be sloped to match proposed finished grading, local utilities have 5% max slope, shall be located in sidewalk areas with pedestrian lids so the lid slope matches sidewalk cross slope.

50. All existing overhead and new utility facilities located on-site, within alleys, or within the street right-of-way along the streets adjacent to this tract shall be undergrounded unless otherwise approved by the City Engineer.

51. The applicant shall contact and address all requirements of the United States Postal Service Clovis Office for the location and type of mailboxes to be installed. The location of the facilities shall be approved by the City Engineer prior to approval of improvement plans or any construction.

52. The applicant shall contact and address Caltrans requirements, and be responsible for obtaining encroachment permits from Caltrans for all work performed within the State right-of-way. The applicant shall be required to mitigate impacts to State Highway facilities as determined by the City Engineer.

**Dedications and Street Improvements**

53. The applicant shall provide right-of-way acquisition or dedicate free and clear of all encumbrances and/or improve the following streets to City standards. The street improvements shall be in accordance with the City's specific plans and shall match existing improvements. The applicant's engineer shall be responsible for verifying the type, location, and grades of existing improvements.

    a. Behymer Avenue – Along frontage between Minnewawa Ave and Peach Ave, dedicate to provide right-of-way acquisition for 58' (exist 20' south) south of section line and 27' (exist 20') north of section line, and improve with curb, gutter, sidewalk, drive approaches, curb return ramps, street lights, fiber optic conduit, median island, median island landscaping and irrigation, landscape strip, 39' (28' South of centerline + 11' North of centerline) permanent paving, permanent paving and overlay as necessary to match the existing permanent pavement, 3' paved swale, and transitional paving as needed.

    b. Minnewawa Avenue – Along frontage, dedicate to provide right-of-way acquisition for 70.5' (exist 30') west of section line and 24.5' (exist 30') east of section line, and improve with curb, gutter, sidewalk, drive approaches, curb return ramps, street lights, fiber optic conduit, median island, median island landscaping and irrigation, landscape strip, 29' (22.5' West of centerline +16.5' East of centerline) permanent paving, permanent paving and overlay as necessary to match the existing permanent pavement, 3' paved swale, and transitional paving as needed.

    c. Peach Avenue – Along frontage, dedicate to provide right-of-way acquisition for 56.5' (exist 30') east of section line and 24.5' (exist 30') west of section line, and improve with curb, gutter, sidewalk, drive approaches, curb return ramps, street lights, fiber optic conduit, median island, median

island landscaping and irrigation, landscape strip, 39' (22.5’ East of centerline +16.5’ West of centerline) permanent paving, permanent paving and overlay as necessary to match the existing permanent pavement, 3' paved swale, and transitional paving as needed.

d. Interior Streets – Dedicate to provide for 50’ or 54’ of right-of-way in conformance with the City policy on street widths, and improve with curb, gutter, 5’ sidewalk adjacent to the curb, drive approaches, curb return ramps, streetlights, permanent paving, and all transitional paving as needed.

e. Entry feature streets with median islands shall have a minimum of 22’ wide travel lanes in each direction with parking or without parking.

f. Temporary Turnabouts – Dedicate to provide for a 48' radius and install 45' of permanent/temporary paving plus 3' paved swale.

g. Install a traffic signal at Behymer and Minnewawa Avenues and provide the necessary right-of-way for the signal in its ultimate location.

h. Install all-way stop signs at Behymer and Peach Avenues.

i. Provide for the design of a traffic signal at Minnewawa and Perrrin Avenues.

j. The applicant shall relinquish all access to Peach, Behymer, and Minnewawa Avenues.

54. The applicant shall provide a dedication for a 10' public utility easement, where applicable, along all public frontages. The applicant shall be responsible for obtaining approval by the utilities companies where alternate widths are provided. The applicant shall provide to the City copies of all final easements prior to final map acceptance.

55. For new onsite ADA paths of travel that connect to the City sidewalk, the applicant shall replace enough sidewalk to provide a compliant landing with appropriate transitions to existing sidewalk grades.

56. The applicant shall remove and repair all damaged or broken concrete improvements, such as but not limited to the following list. The City Engineer may require the repair of additional improvements if they are damaged prior to occupancy.

57. The applicant shall not install any fences, temporary or permanent in public right-of-way.

58. The applicant's engineer of record shall provide traffic geometric studies to determine exact limits of dedication(s) on Behymer Avenue and Minnewawa Avenue, and

lengths and configuration of left turn, right turn pockets and bus bays. Additional dedication and improvements may be required depending on the traffic study.

59. The applicant shall provide preliminary title report, legal description and drawings for all dedications required which are not on the site. All contact with owners, appraisers, etc. of the adjacent properties where dedication is needed shall be made only by the City. The City will prepare an estimate of acquisition costs including but not limited to appraised value, appraisal costs, negotiation costs, and administrative costs. The applicant shall pay such estimated costs as soon as they are determined by the City.

60. The sideyard side of all corner lots shall have full width sidewalk except where planter strips or meandering sidewalk is proposed.

61. The applicant shall obtain "R Value" tests in quantity sufficient to represent all street areas, and have street structural sections designed by a registered civil engineer based on these "R Value" tests.

62. The applicant shall, at the ends of any permanent pavement abutting undeveloped property, install 2" x 6" redwood header boards that shall be placed prior to the street surfacing.

63. Standard barricades with reflectors shall be installed at ends of streets abutting undeveloped property and any other locations to be specified by the City Engineer.

**Sewer**

64. The applicant shall identify and abandon all septic systems to City standards.

65. The applicant shall install sanitary sewer mains of the size and in the locations indicated below, prior to occupancy. The sewer improvements shall be in accordance with the City's master plans and shall match existing improvements. The applicant's engineer shall be responsible for verifying the size, location, and elevations of existing improvements. Any alternative routing of the mains shall require approval of the City Engineer and shall be supported by appropriate calculations.
    a. Behymer Avenue – install 15" main along frontage between Minnewawa Avenue and Peach Avenue.
    b. Behymer Avenue – install 18" main between Peach Avenue and Willow Avenue.
    c. Interior Streets – install 8" mains.

66. The applicant shall install one (1) 4" sewer service house branch to each lot within the tentative tract.

67. All existing sewer services that will not be used with this development shall be abandoned by cutting and capping the service at the right-of-way line.

68. The applicant shall notify all property owners annexed to the City and along streets where a new sewer main will be constructed to determine if they wish to be connected to City sewer. Property owners shall work directly with the applicant regarding costs and location. The applicant shall notify property owners that sewer connection fees are required if they choose to connect.

69. The City cannot guarantee at this time that sewer capacity will be available for this development when site construction occurs. The applicant, therefore, waives any claim or demand against the City for any delay in availability of sewer capacity for this subdivision.

70. Applicant acknowledges that sewage collection and treatment capacity for the area within which the proposed subdivision is located is extremely limited, and that capacity may not be available to provide service for the proposed subdivision at such time as applicant is ready to seek approval of a final map. Applicant acknowledges, understands, and agrees that if such sewage collection and treatment capacity is not available to serve the proposed subdivision, as determined in the sole and absolute discretion of the City of Clovis, the final map may not be approved. Notwithstanding the foregoing, applicant has freely and voluntarily chosen to proceed with the submittal and processing of the tentative map, intends to expend money, time and effort in connection therewith, and accepts the risks that the final map approval may be delayed until sufficient capacity is available as determined in the sole and absolute discretion of the City of Clovis. Applicant agrees to hold harmless and indemnify the City of Clovis from any and all claims, costs, expenses, and damages incurred or suffered by applicant, its principals, officers, employees, agents, or contractors, caused by, in connection with, or arising out of the unavailability of sewage collection or treatment capacity to serve the proposed subdivision, or the City's refusal or failure to approve a final map for the proposed subdivision because of the unavailability of sewage collection or treatment.

**Water**

71. The applicant shall identify and abandon all water wells to City standards.

72. The applicant shall install water mains of the sizes and in the locations indicated below, and provide an adequately looped water system prior to occupancy. The water improvements shall be in accordance with the City's master plans, in accordance with the Technical Memorandum prepared for the project (Provost & Pritchard, TBD 2024) and shall match existing improvements. The applicant's engineer shall be responsible for verifying the size, location, and elevations of existing improvements. Any alternative routing of the mains shall require approval of the City Engineer and shall be supported by appropriate calculations.
    a. Behymer Avenue – install 16" main along frontage between Peach and Minnewawa Avenues.
    b. Behymer Avenue – install 16" main between Minnewawa and Clovis Avenues.

c. Behymer Avenue – install 12" main between Willow and Peach Avenues.
d. Behymer Avenue – install 24" main between Clovis and Baron Avenues.
e. Perrin Avenue – install 12” main between Willow and Chapel Hill Avenues.
f. Chapel Hill Avenue – install 12” main between Perrin and Pallisade Avenues.
g. Pallisade Avenue – install 12” main between Chapel Hill and Peach Avenues
h. Peach Avenue – install 12” main between Pallisade and Behymer Avenues
i. Interior Streets – install 8" mains.
j. Install water storage tank T-6 per the Water Master Plan. The City Engineer shall determine the timing for the installation of T-6 by a future City CIP project.

73. The applicant shall install a City standard water service to each lot of the proposed subdivision. Water services shall be grouped at property lines to accommodate automatic meter reading system, including installation of connecting conduit. The water meter shall be placed in the sidewalk and not in planters or driveways.

74. All existing water services that will not be used with this development shall be abandoned by closing the service’s corporation stop and creating a physical separation between the corporation stop and the service.

75. The applicant shall notify all property owners’ annexed to the City and along streets where a new water main will be constructed to determine if they wish to be connected to City water. Property owners shall work directly with the applicant regarding costs and location. The applicant shall notify property owners that water connection fees are required if they choose to connect.

76. Prior to recording a final map of any phase, the applicant shall demonstrate to the satisfaction of the City Fire Chief and City Engineer that there is adequate water pressure to serve the units to be constructed. The applicant shall work with the City Engineer to determine the adequacy of water supply/pressure for the proposed development.

77. Applicant acknowledges that water distribution and treatment capacity for the area within which the proposed subdivision is located is extremely limited, and that distribution may not be available to provide service for the proposed subdivision at such time as applicant is ready to seek approval of a final map. Applicant acknowledges, understands, and agrees that if such water distribution and treatment capacity is not available to serve the proposed subdivision, as determined in the sole and absolute discretion of the City of Clovis, the final map may not be approved. Notwithstanding the foregoing, applicant has freely and voluntarily chosen to proceed with the submittal and processing of the tentative map, intends to expend money, time and effort in connection therewith, and accepts the risks that the final map approval may be delayed until sufficient distribution is available as determined in the sole and absolute discretion of the City of Clovis. Applicant agrees to hold

harmless and indemnify the City of Clovis from any and all claims, costs, expenses, and damages incurred or suffered by applicant, its principals, officers, employees, agents, or contractors, caused by, in connection with, or arising out of the unavailability of water distribution or treatment capacity to serve the proposed subdivision, or the City's refusal or failure to approve a final map for the proposed subdivision because of the unavailability of water distribution or treatment capacity.

**Recycled Water**

78. The applicant shall install recycled water mains of the sizes and in the locations indicated below. The recycled water improvements shall be in accordance with the City's master plans and shall match existing improvements. All areas utilizing recycle water for irrigation shall be clearly marked on the improvement plans. The applicant's engineer shall be responsible for verifying the size, location, and elevations of existing improvements. Any alternative routing of the mains shall require approval of the City Engineer and may require appropriate calculations.
    a. Paseos, Trails, and Neighborhood Parks – install mains as necessary to serve the paseos, trails, and the neighborhood parks.

**Grading and Drainage**

79. The applicant shall contact the Fresno Metropolitan Flood Control District (FMFCD) and address all requirements, pay all applicable fees required, obtain any required NPDES permit, and implement Best Available Technology Economically Achievable and Best Conventional Pollutant Control Technology to reduce or eliminate storm water pollution. Plans for these requirements shall be included in the previously required set of construction plans, and shall be submitted to and approved by FMFCD prior to the release of any development permits.

80. In the event permanent storm drainage facilities are not available, the applicant shall provide temporary on-site retention basins for storm water disposal and provide a cash deposit for each basin to offset the City's cost of maintaining the basins. The size and design shall be in accordance with the requirements of the City Engineer and may change based on design calculations and access requirements for maintenance. The temporary pond maintenance deposit shall be based on size, depth, expected maintenance schedule, etc. However, the property owner shall be responsible for periodic cleaning of toxic material. The temporary basin is solely for the convenience of the subdivision.

81. The owner of the property on which the temporary basin(s) are located shall backfilled said basin(s) within ninety (90) days after notice is given by the City that the basin(s) are no longer needed. In the event the owner fails to backfill said basin(s) within said 90 days, the City may cause the basin to be backfilled. A lien to cover the cost of the work will be placed on the property, including the costs to prepare and enforce the lien. A covenant shall be prepared and recorded on the lot on which the basin(s) is/are located.

82. Grade differentials between lots and adjacent properties shall be adequately shown on the grading plan and shall be treated in a manner in conformance with City of Clovis Standard Drawing No. M-4 as modified by the City Council. Any retaining walls required on-site or in public right of way shall be masonry construction. All retaining walls shall be designed by a registered civil engineer.

**Irrigation and Landscaping Facilities**

83. The applicant, as a portion of the required tract improvements, shall provide landscaping and irrigation as required herein. The landscaping and irrigation shall be installed in public right-of-way and the area reserved for landscaping. The irrigation and landscape improvements shall be in accordance with the City's master plans and shall match existing improvements. The applicant's engineer shall be responsible for verifying the size, location, and elevations of existing improvements. Plans for the required landscaping and irrigation systems shall be prepared by an appropriately registered professional at the applicant's expense and shall be approved by the City of Clovis Planning and Development Services Department and Public Utilities Department prior to the beginning of construction or the recording of the final tract map, whichever occurs first. Landscape and irrigation facilities that the City Landscape Maintenance District shall maintain: the park, paseos, paseo lights, interior street lights, entry features, landscape strips along Behymer, Peach, and Minnewawa Avenues, and the median islands in Behymer and Peach Avenues.

84. The owner shall request annexation to and provide a covenant for the Landscape Maintenance District. The property owner acknowledges and agrees that such request serves as a petition pursuant to California State Proposition 218 and no further election shall be required for the establishment of the initial assessment. The assessment for each lot shall be obtained from the City for the tax year following the recordation of the final map. The estimated annual assessment per average sized lot is $540.26, which is subject to change prior to issuance of building permit or final tract map approval and is subject to an annual change in the range of the assessment in the amount of the Consumer Price Index, U.S. City Average, All Urban Consumers (CPI Index), plus two percent (2%). The additional landscaping enhancements that exceed the City norms and are specific benefit to the property, such as the entry feature, columns, monuments, interior median islands, round-a-bouts, special street lights, etc, if determined to be maintained by the Landscape Maintenance District, shall be maintained by an additional landscape maintenance assessment. The applicant shall provide construction costs and deposit with the City an amount equal to 50% of the value of the enhanced landscaping hardscape features, or an alternate amount approved by the City Engineer, such as columns, monuments, and special street lights, that exceeds the City norms. The applicant shall provide the City with an estimate of the annual maintenance for the special lighting and landscaping enhancements that exceeds the City norms. The owner/developer shall notify all potential lot buyers before they actually purchase a lot that this tract is a part of a Landscape Maintenance District and shall inform potential buyers of the assessment

amount. Said notification shall be in a manner approved by the City. The owner/developer shall supply all pertinent materials for the Landscape Maintenance District.

85. The applicant shall comply with the City of Clovis Water Efficient Landscape Requirements Ordinance.

86. The applicant shall contact and address all requirements of the Fresno Irrigation District (FID). This may include dedicating easements, piping or relocating any existing FID canals and ditches, replacing any existing irrigation piping, concrete lining or improving any existing canals, construction or reconstruction of any canals, culverts, and bridge crossings. Plans for these requirements and improvements shall be included as in the previously required set of construction plans, and shall be submitted to and approved by FID prior to the release of any development permits or recording of the final tract map. If a FID or private irrigation line is to be abandoned, the applicant shall provide waivers from all downstream users.

87. The applicant shall indicate on construction drawings the depth, location and type of material of any existing Fresno Irrigation District's irrigation line along the proposed or existing street rights-of-way or onsite. Any existing canals shall be piped. The material of the existing pipe shall be upgraded to the proper class of rubber gasket pipe at all locations unless otherwise approved by the City Engineer.

88. The applicant shall apply to the Fresno Irrigation District (FID) for transfer of irrigation water rights to the City of Clovis, if the property has not already been removed from FID and transferred to the City. The applicant shall execute a “Request for Change of Relative Value” that can be obtained and processed through FID. The applicant shall provide a copy of the completed form to the City.

89. All existing agricultural irrigation systems either on-site or in public right of way, whether FID or privately owned, shall be identified prior to any construction activity on the site. Service to all downstream users of irrigation water shall be maintained at all times through preservation of existing facilities or, if the existing facilities are required to be relocated, the relocation and replacement of the existing facilities. It is the intent that downstream users not bear any burden as a result of development of the site. Therefore, the applicant shall pay all costs related to modification, relocation, or repair of any existing irrigation facilities resulting from or necessitated by the development of the site. The applicant shall identify on site plans and construction plans, all existing irrigation systems and their disposition (abandonment, repair, relocation, and/or piping). The applicant shall consult with the Fresno Irrigation District for any additional requirements for lines to be abandoned, relocated, or piped. The applicant shall provide waivers from all users in order to abandon or modify any irrigation pipelines or for any service interruptions resulting from development activities.

90. The applicant shall provide a landscape and irrigation perpetual maintenance covenant recorded for landscaping installed in the public right-of-way behind the curb

including easements that will not be maintained by the Clovis Landscape Maintenance District. A recordable covenant shall be submitted to and approved by the City of Clovis City Engineer prior to final map approval.

91. The applicant shall provide a perimeter wall perpetual maintenance covenant on all properties that have a perimeter wall that is installed on private property. A recordable covenant shall be submitted to and approved by the City of Clovis City Engineer prior to final map approval.

**Miscellaneous**

92. The applicant shall install Sixty-Five (65) street lights per the attached street light exhibit. Street lights along the major streets shall be installed on metal poles to local utility provider's standards at the locations designated by the City Engineer. Street light locations shall be shown on the utility plans submitted with the final map for approval. Street lights at future traffic signal locations shall be installed on approved traffic signal poles, including all conduits and pull boxes. Street lights along the major streets shall be owned and maintained by local utility providers. Proof of local utility provider's approval shall be provided. The applicant may install thematic lighting, as approved by the City Engineer. If the applicant chooses to install thematic lighting, the applicant shall provide a conceptual lighting plan identifying adjacent properties that may be incorporated with thematic lights to create a neighborhood effect. Thematic lighting owned by the City shall be maintained by an additional landscape maintenance assessment.

93. The applicant shall install all major street monumentation and section corner monumentation within the limits of the project work in accordance with City Standard ST-32 prior to final acceptance of the project. Monumentation shall include all section corners, all street centerline intersection points, angle points and beginning and end of curves (E.C.'s & B.C.'s). The applicant/contractor shall furnish brass caps. Any existing section corner or property corner monuments damaged by this development shall be reset to the satisfaction of the City Engineer. A licensed land surveyor or civil engineer licensed to perform land surveying shall certify the placement of all required monumentation prior to final acceptance. Brass caps required for installation of new monuments or replacement of existing monuments shall be provided by the contractor/the applicant and approved by City prior to installation. Within five days after the final setting of all monuments has been completed, the engineer or surveyor shall give written notice to the City Engineer that the final monuments have been set. Upon payment to the engineer or surveyor for setting the final monuments, the applicant shall present to the City Engineer evidence of the payment and receipt thereof by the engineer or surveyor.

94. A deferment, modification, or waiver of any engineering conditions shall require the express written approval of the City Engineer.

95. The conditions given herein are for the entire development. Additional requirements for individual phases may be necessary pending review by the City Engineer.

**Fresno Metropolitan Flood Control District (FMFCD) Comments**
(Amjad M. Qader, FMFCD Representative – 559-456-3292)

96. The applicant shall refer to the attached FMFCD correspondence. If the list is not attached, please contact the FMFCD for the requirements.

**Fresno Irrigation District (FID) Comments**
(Jeremy Landrith, Department Representative – 559-233-7161 ext. 7407)

97. The applicant shall refer to the attached FID correspondence. If the list is not attached, please contact the FID for the list of requirements.

**County of Fresno Health Department Comments**
(Kevin Tsuda, County of Fresno Health Department Representative – 559-600-3271)

98. The applicant shall refer to the attached Fresno County Health Department correspondence. If the list is not attached, please contact the Health Department for the list of requirements.

**California Department of Transportation**
(Christopher Xiong, Caltrans Representative – 559-908-7064)

99. The applicant shall refer to the attached Caltrans correspondence. If the list is not attached, please contact the Caltrans for the list of requirements.

**County of Fresno Dept. of Public Works and Planning**
(David Randall, Department Representative – 559-600-4052)

100. The applicant shall refer to the attached County of Fresno correspondence. If the list is not attached, please contact the County of Fresno for the list of requirements.

**San Joaquin Valley Air Pollution Control District (SJVAPCD)**
(Ryan Grossman, District Representative – 559-230-6569)

101. The applicant shall refer to the attached SJVAPCD correspondence. If the list is not attached, please contact the SJVSPCD for the list of requirements.

**Department of Toxic Substances Control**
(Tamara Purvis, District Representative – Tamara.Purvis@dtsc.ca.gov)

102. The applicant shall refer to the attached DTSC correspondence. If the list is not attached, please contact the DTSC for the list of requirements.

## Administration Department Conditions

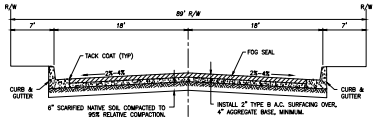
(John Holt, Department Representative – 324-2060)

103. Prior to approval, recordation or filing of an annexation, final map, or site plan, the property covered by the Project shall be included within or annexed to a Community Facilities District (CFD), established by the City for the provision of public facilities and services, for which proceedings have been consummated, and shall be subject to the special tax approved with the formation or annexation to the CFD. The CFD applies only to residential projects.

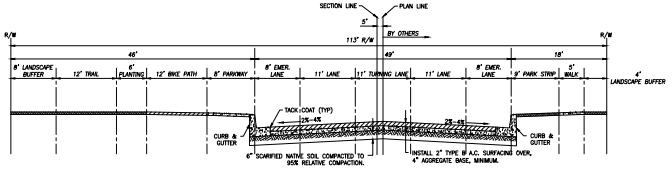
# VESTING TENTATIVE SUBDIVISION MAP TRACT NO. 6482

IN THE CITY OF CLOVIS, COUNTY OF FRESNO, STATE OF CALIFORNIA
CONSISTING OF THREE SHEETS

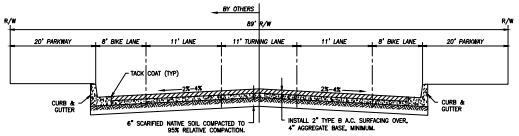
APRIL 2024



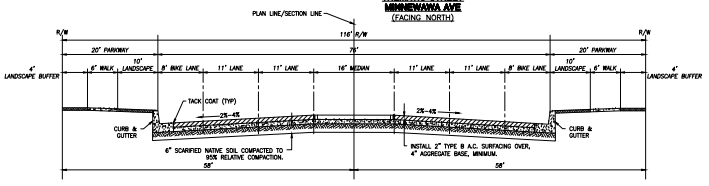

**LOCAL ROAD**



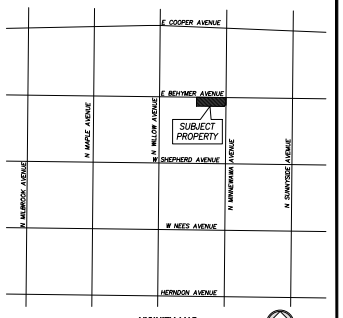

**THOMATIC STREET**
**MINNEWAWA AVE**
(FACING NORTH)



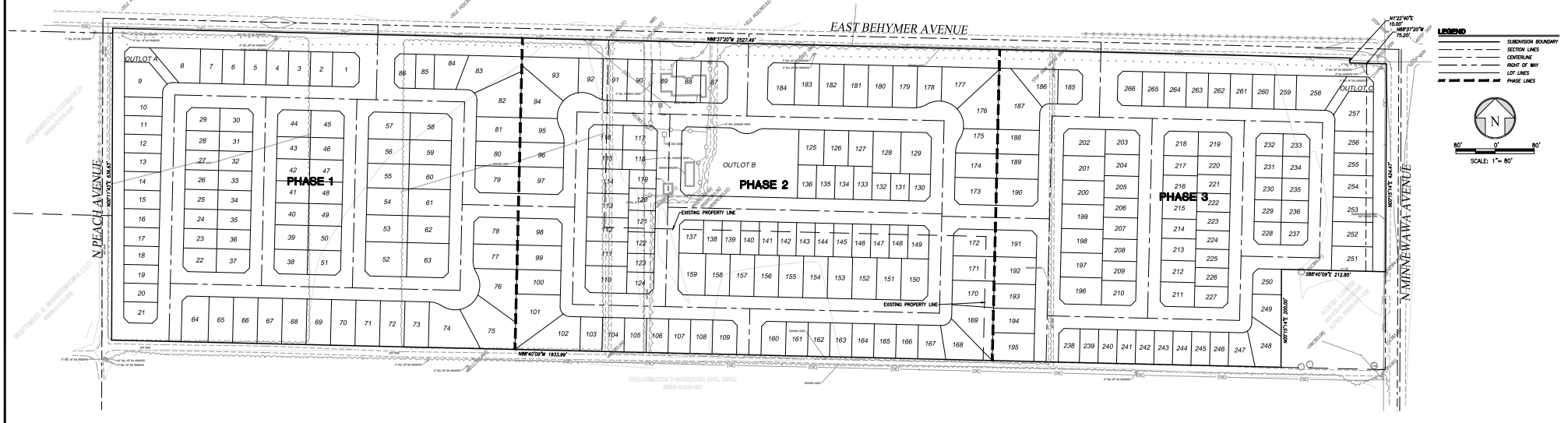

**NEIGHBORHOOD BLVD**
**PEACH AVE**
(FACING NORTH)




**COMMUNITY BLVD**
**BEHYMER AVE**
(FACING EAST)




**VICINITY MAP**
NOT TO SCALE




**LEGEND**

- SUBDIVISION BOUNDARY
- SECTION LINES
- CENTERLINE
- RIGHT OF WAY
- LOT LINES
- PHASE LINES

SCALE: 1" = 80'

**LEGAL DESCRIPTION:**

THE LAND REFERRED TO IN THIS REPORT IS SITUATED IN THE UNINCORPORATED AREA OF THE COUNTY OF FRESNO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

PARCEL ONE:
THOSE PORTIONS OF LOTS 5 AND 12 OF GARFIELD COLONY, AS RECORDED IN VOLUME 2 OF RECORD OF SURVEYS, AT PAGE 46 OF FRESNO COUNTY RECORDS, IN THE COUNTY OF FRESNO, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:
BEGINNING AT THE NORTHWEST CORNER OF SAID LOT 5, THENCE SOUTH 89° 59' 37" EAST, ALONG THE NORTH LINE OF SAID LOT 1013.53 FEET; THENCE SOUTH 00° 00' 23" WEST, 382.16 FEET; THENCE SOUTH 89° 59' 37" EAST, 780.00 FEET; THENCE SOUTH 00° 00' 23" WEST, 252.87 FEET TO THE SOUTH LINE OF LOT 12; THENCE SOUTH 89° 57' 37" WEST ALONG THE SOUTH LINE OF SAID LOTS 5 AND 12, A DISTANCE OF 1780.41 FEET TO THE SOUTHWEST CORNER OF SAID LOT 5; THENCE NORTH 01° 10' 30" WEST ALONG THE WEST LINE OF SAID LOT 5, A DISTANCE OF 636.64 FEET TO THE NORTHWEST CORNER OF SAID LOT 5 AND THE POINT OF BEGINNING.
NOTE: FOR THE PURPOSES OF THIS DESCRIPTION, THE NORTH LINE OF LOTS 5 AND 12 IS ASSUMED TO BE PARALLEL WITH AND 20 FEET SOUTH OF THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 19, TOWNSHIP 12 SOUTH, RANGE 21 EAST, M.D.B&M. THE WEST LINE OF LOT 5 IS ASSUMED TO BE PARALLEL WITH AND 20 FEET EAST OF THE WEST LINE OF THE NORTHEAST QUARTER OF SECTION 19, TOWNSHIP 12 SOUTH, RANGE 21 EAST, M.D.B&M. THE EAST LINE OF LOT 12 IS ASSUMED TO BE PARALLEL WITH AND 20 FEET WEST OF THE EAST LINE OF THE NORTHEAST QUARTER OF SECTION 19, TOWNSHIP 12 SOUTH, RANGE 21 EAST, M.D.B&M.
APN: 556-010-29

PARCEL TWO:
AN EXCLUSIVE EASEMENT FOR PUBLIC UTILITIES AND PEDESTRIAN INGRESS AND EGRESS DESCRIBED AS FOLLOWS:
THOSE PORTIONS OF LOTS 5 AND 12 OF GARFIELD COLONY, AS RECORDED IN VOLUME 2 OF RECORD OF SURVEYS, AT PAGE 46 OF FRESNO COUNTY RECORDS, IN THE COUNTY OF FRESNO, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:
COMMENCING AT THE NORTHWEST CORNER OF SAID LOT 5, THENCE SOUTH 89° 59' 37" EAST, ALONG THE NORTH LINE OF SAID LOT, 1013.53 FEET; THENCE SOUTH 00° 00' 23" WEST, 332.16 FEET TO THE TRUE POINT OF BEGINNING; THENCE SOUTH 89° 59' 37" EAST, 780.00 FEET; THENCE SOUTH 00° 00' 23" WEST, 50.00 FEET; THENCE NORTH 89° 59' 37" WEST, 780.00 FEET; THENCE NORTH 00° 00' 23" EAST, 50.00 FEET TO THE TRUE POINT OF BEGINNING.
NOTE: FOR THE PURPOSES OF THIS DESCRIPTION, THE NORTH LINE OF LOTS 5 AND 12 IS ASSUMED TO BE PARALLEL WITH AND 20 FEET SOUTH OF THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 19, TOWNSHIP 12 SOUTH, RANGE 21 EAST, M.D.B&M. THE WEST LINE OF LOT 5 IS ASSUMED TO BE PARALLEL WITH AND 20 FEET EAST OF THE WEST LINE OF THE NORTHEAST QUARTER OF SECTION 19, TOWNSHIP 12 SOUTH, RANGE 21 EAST, M.D.B&M. THE EAST LINE OF LOT 12 IS ASSUMED TO BE PARALLEL WITH AND 20 FEET WEST OF THE EAST LINE OF THE NORTHEAST QUARTER OF SECTION 19, TOWNSHIP 12 SOUTH, RANGE 21 EAST, M.D.B&M.

**INTENT TO FILE MULTIPLE FINAL MAPS:**

PURSUANT TO 66456.1 OF THE GOVERNMENT CODE, THE APPLICANT INTENDS TO FILE MULTIPLE FINAL MAPS ON THIS VESTING TENTATIVE MAP. THE APPROXIMATE PHASE LINES ARE SHOWN HEREON.

**NOTES:**

1. EXISTING ZONING: AE20 (AGRICULTURE)
2. PROPOSED ZONING: R-1 (SINGLE FAMILY RESIDENTIAL)
3. PROPOSED LAND USE: MEDIUM DENSITY RESIDENTIAL (7.58 DU/AC)
4. SITE AREA: 36.52 ACRES (GROSS)
5. SITE ADDRESS: 3731 E BEHYMER AVENUE, CLOVIS, CA 93619
6. NUMBER OF LOTS: 269
7. DENSITY: 7.2 UNITS PER GROSS ACRE
8. ASSESSOR'S PARCEL NO.: 556-010-28 & 556-010-29
9. ANY GRADE DIFFERENTIALS ACROSS EXISTING AND PROPOSED PROPERTY LINES WILL BE MITIGATED PER CITY OF CLOVIS REQUIREMENTS.
10. PROPOSED SEWER, WATER, CONCRETE CURBS, GUTTERS, SIDEWALKS, STREETLIGHTS, AND STREET PAVEMENT TO BE INSTALLED PER CITY OF CLOVIS STANDARD DRAWINGS AND SPECIFICATIONS SPECIFICATIONS.
11. ALL STREETS WITHIN THIS SUBDIVISION TO BE OFFERED FOR DEDICATION FOR PUBLIC STREET PURPOSES.
12. ALL EXISTING STRUCTURES TO BE REMOVED. WELLS AND SEPTIC SYSTEMS ARE TO BE ABANDONED PER CITY AND COUNTY STANDARDS.
13. THERE ARE NO KNOWN UNDERGROUND FEATURES SUCH AS WELLS OR CESSPOOLS WITHIN THE PROPOSED SUBDIVISION OTHER THAN WHAT IS SHOWN ON THE MAP.
14. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO DUMP SITES ON THIS PROPERTY.
15. WATER SUPPLY AND SEWER SERVICES ARE FROM THE CITY OF CLOVIS.
16. THIS AREA IS NOT SUBJECT TO FLOOD INUNDATION.

**RECORD OWNERSHIP:**

APN: 556-010-28 & 556-010-29

DE YOUNG PEACH/BEHYMER L.P., A CALIFORNIA LIMITED PARTNERSHIP

**SUBDIVIDER:**

DE YOUNG PROPERTIES
677 W. PALMDON DRIVE, SUITE 208
FRESNO, CA 93704

**UTILITY INFORMATION:**

SEWER AND WATER:
CITY OF CLOVIS
1033 FIFTH STREET
CLOVIS, CA 93611
PHONE: (559)324-2000

GAS AND ELECTRIC:
PACIFIC GAS AND ELECTRIC COMPANY
650 'O' STREET
FRESNO, CA 93760-0001
PHONE: (559)263-5636

CABLE TELEVISION:
COMCAST
2441 NORTH GROVE INDUSTRIAL DRIVE
FRESNO, CA 93727
PHONE: (559)252-8210 EXT. 4222

TELEPHONE:
AT&T CALIFORNIA
5555 EAST OLIVE AVENUE, RM. E-100-UE
FRESNO, CA 93762
PHONE: (559)454-3778

STORM DRAIN:
FRESNO METROPOLITAN FLOOD CONTROL DISTRICT
5469 EAST OLIVE AVENUE
FRESNO, CA 93725
PHONE: (559)456-3292

**Attachment 3B**

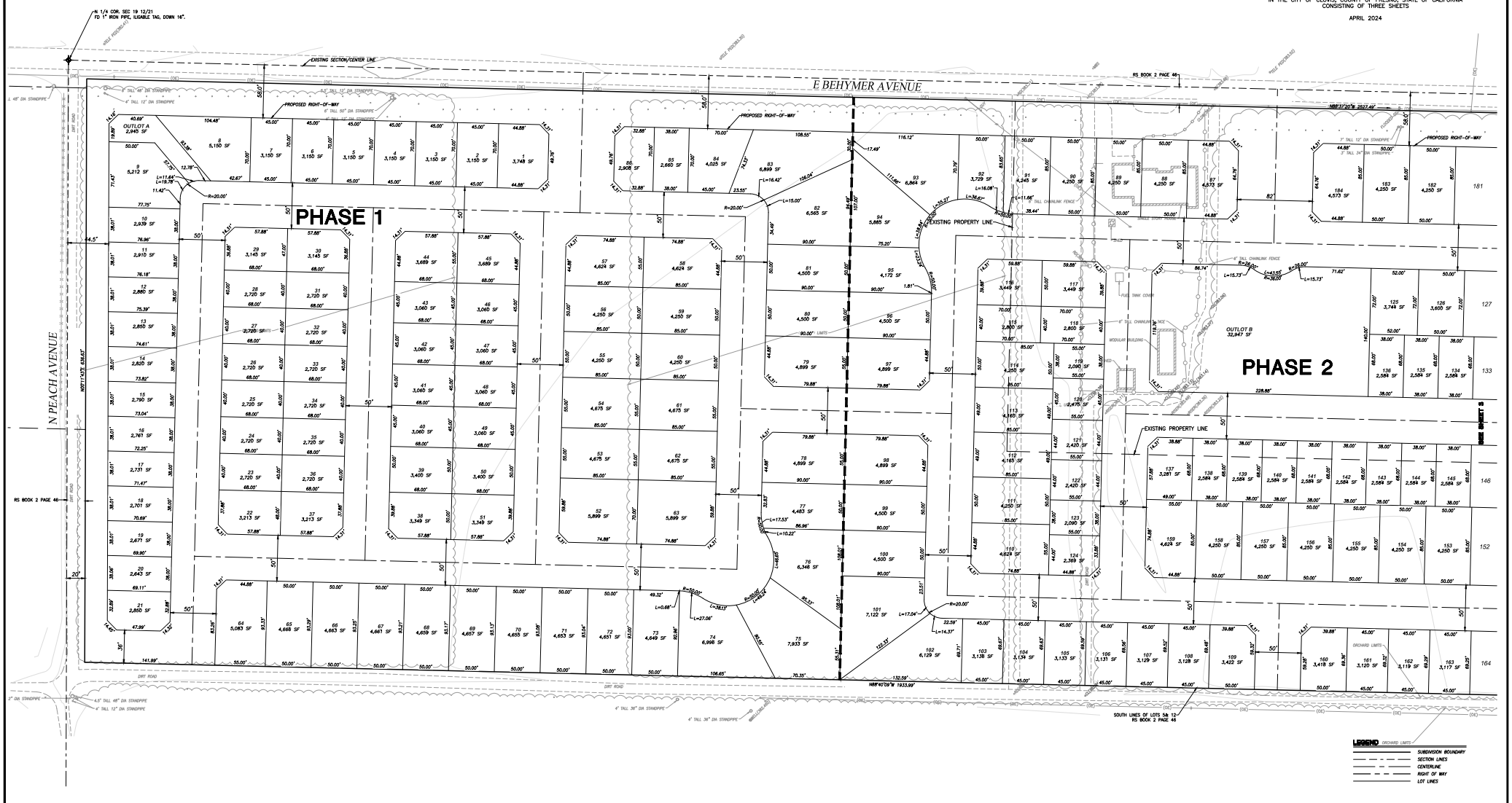


PROPERTIES, IDEAS, MAPPING, WATER, PERSONALLY VISUALIZED
COPYRIGHT BY BLAS PARK, INC. UNAUTHORIZED USE PROHIBITED

# VESTING TENTATIVE SUBDIVISION MAP TRACT NO. 6482

IN THE CITY OF CLOVIS, COUNTY OF FRESNO, STATE OF CALIFORNIA
CONSISTING OF THREE SHEETS

APRIL 2024



# VESTING TENTATIVE SUBDIVISION MAP TRACT NO. 6482

IN THE CITY OF CLOVIS, COUNTY OF FRESNO, STATE OF CALIFORNIA
CONSISTING OF THREE SHEETS

APRIL 2024



**RESOLUTION 24-__**

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS APPROVING PLANNED DEVELOPMENT PERMIT 2024-002 FOR VESTING TENTATIVE TRACT MAP 6482 LOCATED SOUTH OF E. BEHYMER AVENUES, BETWEEN N. MINNEWAWA AVENUE AND N. PEACH AVENUE**

**WHEREAS,** DeYoung Properties, 677 W. Palmdon Drive Suite 208, Fresno, CA 93704, has submitted various applications including for: an application for Planned Development Permit ("PDP2024-002") to deviate from the R-1 Zone District development standards associated with Vesting Tentative Tract Map 6482 ("TM6482") for a 266-lot single-family subdivision ("Project") on approximately 36.92 acres of property located on the located south of E. Behymer Avenues, between N. Minnewawa Avenue and the N. Peach Avenue Alignment; ("Property"); and

**WHEREAS,** the proposed PDP2024-002 is in keeping with the intent and purpose of Chapter 66 of Title 9 of the Clovis Municipal Code (Development Code); and

**WHEREAS,** the Planning Commission considered PDP2024-002 on November 21, 2024, recommending approval of said PDP; and

**WHEREAS,** the City published notice of the public hearing in the Fresno Business Journal on December 2, 2024 mailed public notices to property owners within 1,500 feet of the Property twenty-one (21) days prior to said City Council hearing, and otherwise posted notice of the Public Hearing according to applicable law; and

**WHEREAS,** a duly noticed public hearing was held on December 16, 2024; and

**WHEREAS,** the City Council has given careful consideration to this PDP on December 16, 2024, and considered the CEQA analysis outlined in the staff report and elsewhere in the Administrative Record which determines that the PDP meets the requirements pursuant to CEQA Guidelines and does adopt the mitigated negative declaration and the mitigation monitoring program for the Project; and

**WHEREAS,** the City Council has reviewed and considered the entire Administrative Record relating to the Project, which is on file with the Department, and reviewed and considered those portions of the Administrative Record determined to be necessary to make an informed decision, including, but not necessarily limited to, the staff report, the written materials submitted with the request, and the verbal and written testimony and other evidence presented during the public hearing, and the conditions of approval attached as **Attachment A** to this Resolution, which are incorporated herein by this reference.

**NOW, THEREFORE, BASED UPON THE ENTIRE RECORD OF THE PROCEEDINGS, THE CITY COUNCIL RESOLVES AND FINDS AS FOLLOWS:**

1. The City Council hereby approves PDP2024-002, subject to the conditions of approval set forth in **Attachment A** of this Resolution.

2. The Project satisfies the required findings for approval of a PDP, as follows:

   a. The Project is allowed within the subject base zoning district;

   b. The Project is consistent with the purpose, intent, goals, policies, actions, and land use designations of the General Plan and any applicable specific plan;

   c. The Project is generally in compliance with all of the applicable provisions of this Development Code relating to both on- and off-site improvements that are necessary to accommodate flexibility in site planning and property development and to carry out the purpose, intent, and requirements of this chapter and the subject base zoning district, including prescribed development standards and applicable design guidelines;

   d. The Project ensures compatibility of property uses within the zoning district and general neighborhood of the proposed development;

   e. The Project would produce a comprehensive development of superior quality (e.g., appropriate variety of structure placement and orientation opportunities, appropriate mix of structure sizes, high quality architectural design, increased amounts of landscaping and open space, improved solutions to the design and placement of parking facilities, incorporation of a program of enhanced amenities, etc.) than which might otherwise occur from more traditional development applications;

   f. Proper standards and conditions have been imposed to ensure the protection of the public health, safety, and welfare;

   g. Proper on-site traffic circulation and control is designed into the development to ensure protection for fire suppression and police surveillance equal to or better than what would normally be created by compliance with the minimum setback and parcel width standards identified in Division 2 of Title 9 of the Clovis Municipal Code (Zoning Districts, Allowable Land Uses, and Zone-Specific Standards);

   h. The subject Property is adequate in terms of size, shape, topography, and circumstances to accommodate the proposed development; and

   i. The design, location, operating characteristics, and size of the Project would be compatible with the existing and future land uses in the vicinity, in terms of aesthetic values, character, scale, and view protection.

3. Without the conditions of approval (**Attachment A** of this resolution), the City Council could not make the findings necessary for approval of PDP2024-002.

4. The basis for the findings is detailed in the December 16, 2024, staff report, which is hereby incorporated by reference, the entire Administrative Record, as well as the evidence and comments presented during the public hearing.

* * * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED: December 16, 2024

_____ _____

Mayor City Clerk

**Attachment A**
**Conditions of Approval – PDP2024-002**
**Planning Division Comments**
(Marissa Jensen, Assistant Planner – 559-324-2338)

1. The Project must produce a comprehensive development of superior quality than which might otherwise occur from more traditional development on the site. This will be reviewed and approved through the civil plan review process and residential site plan review.

2. The applicant must provide a 0.75-acre pocket park with a spacious turf area, a 289 square foot shade structure, ADA compliant picnic tables, Adirondack chairs, two (2) playground areas for children ages 2-5 and 5-12 respectfully, concrete seat walls, and two (2) ping pong tables.

3. The Applicant shall construct a minimum six-foot high solid split face masonry wall along the north, east, and west boundaries of TM6482.

4. The developer shall design and install the Community Gateway (Community Corner Paseo) at the corners of N. Peach and E. Behymer Avenues and N. Minnewawa and E. Behymer Avenues. The Corner Paseo shall be designed to meet the intent outlined in the Heritage Grove Guidelines.

5. The developer shall screen all ground mounted mechanical equipment from public view from abutting public streets and rights-of-way and open space uses. Screening material shall be constructed of materials consistent with the superior quality of the PDP and Heritage Grove Design Guidelines.

6. Landscape features and forms within amenity areas shall be consistent with Heritage Grove Design Guidelines. Details shall be provided in the construction plan.

7. No more than two (2) of the same unit type (floor layout and exterior materials package) shall be repeated side by side. When two (2) of the same units are repeated side by side, they shall be different colors. These identical provisions may be waived by the City Planner on a specific lot basis within the project when the size or configuration of a lot would otherwise prevent compliance with the above requirements of any other siting or setback/yard requirements established under this application. If such a waiver is requested, the developer and City Planner shall work together to ensure that any sitings of units not in compliance with the above requirements shall be of different materials and elevations in order to minimize any adverse visual impacts that may result.

8. Setbacks shall be measured to the exterior face of the framing of the structure. Exceptions to the setbacks are identified in § 9.24.100, of the Clovis Municipal Code.

9. Development standards for the lots of TM6482 shall be as follows:

| Standard | Housing Products | |
|---|---|---|
| | **Discover/Compass (177 lots)** | **Freedom (89 lots)** |
| Minimum Lot Size (Square Feet) | 2,223 | 1,836 |
| Minimum Parcel Width | 39 feet | 36 feet |
| Minimum Curved Parcel Width | 25 feet | 20 feet |
| Minimum Corner Parcel Width | 25 feet | 20 feet |
| Minimum Parcel Depth | 57 feet | 53 feet |
| Maximum Lot Coverage | 65 % | 65% |
| Maximum Height | 2 stories / 35 feet | 2 stories / 35 feet |
| Front (Garage) Setback | 18 feet | 18 feet |
| Front (Living) Setback | 5 feet | 5 feet |
| Setback to Projections and/or Porch/ Patio | 4 feet | 4 feet |
| Garage Side Setback | 5 feet | 5 feet |
| Corner Street Side Setbacks | 3 feet | 3 feet |
| Reversed Corner Street Side Setback | 8 feet | 8 feet |
| Corner Street Side Fence Setback | 3 feet | 3 feet |
| Interior Side Yard Setback (opposite from garage) | 3 feet | 3 feet |
| Rear Setback | 5 feet | 5 feet |
| Garages | • 20’x20’ interior dimension (2-car)<br>• 10’x20’ interior dimension (1-car) | • 20’x20’ interior dimension (2-car)<br>• 10’x20’ interior dimension (1-car) |

10. All lighting shall be screened from direct view from the public right-of-way and adjacent residential properties.

11. The developer shall utilize streetlights along local streets within the development area that are of the same design and luminosity as surrounding developments within Heritage Grove.

12. A residential site plan review is required to memorialize building plans and elevations for the different product types of TM6482. Specific color and materials of the models, walls, amenities, landscaping, and fencing will be evaluated through the civil plans.

**RESOLUTION 24-__**

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS MAKING APPLICATION TO THE FRESNO LOCAL AGENCY FORMATION COMMISSION AND REQUESTING THE COMMISSION TO TAKE PROCEEDINGS FOR THE PEACH-BEHYMER SOUTHEAST REORGANIZATION**

**WHEREAS,** the City of Clovis desires to initiate proceedings pursuant to the Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000, Division 3, commencing with Section 56000 of the California Government Code, for the reorganization; and

**WHEREAS**, the specific changes of organization requested are annexation to the City of Clovis and detachment from the Fresno County Fire Protection District; and

**WHEREAS,** the territory proposed to be reorganized is inhabited, and on this day contains 5 voters, according to information received from the County Election Officer; and

**WHEREAS,** a description of the boundaries of the territory is set forth in **Attachment A** attached hereto and by this reference incorporated herein; and

**WHEREAS,** the proposal complies with the terms and standards of the tax sharing agreement between the City of Clovis and the County of Fresno; and

**WHEREAS**, on December 16, 2024, the City Council approved the Initial Study completed for the project; and adopted a Mitigation Monitoring and Reporting Program for the annexation and development project of the property, which is the subject of Peach-Behymer Southeast Reorganization; and

**WHEREAS,** it is desired to provide that the proposed Peach-Behymer Southeast Reorganization be subject to the following terms and conditions:

1. The regular assessment roll shall be utilized.

2. Each new development will be required to demonstrate adequate water availability and, if necessary, will be required to drill and test a well, and to connect it to the city water system.

3. Each new development will be required to obtain sewage capacity from the trunk sewer specified by the City Engineer.

4. The provisions of Article II, Annexation by City, as agreed between the City of Clovis and the County of Fresno pursuant to the June 6, 2017, Memorandum of Understanding, as amended from time to time, regarding tax sharing shall apply.

5. The applicants shall reimburse the City for any expense associated with the transition agreement for fire services with the Fresno County Fire Protection District that would apply to this proposal.

6. A "Right-to-Farm" covenant shall be recorded for each tract map or made a condition of each tract map.

7. Pursuant to Government Code Section 56663, the City shall consent to the annexation and waive its rights to a hearing.

8. Prior to approval, recordation or filing of an annexation, tentative map, final map, parcel map, or site plan (Project), the property covered by the Project shall be included within or annexed to a Community Facilities District (CFD), established by the City for the provision of public facilities and services, for which proceedings have been consummated, and shall be subject to the special tax approved with the formation or annexation to the CFD.

   The applicant and the property owner acknowledge and agree that if the Project was not part of a CFD, the City might lack the financial resources to operate facilities and provide public services, such as police protection, fire protection, emergency medical services, parks and recreation services, street maintenance, and public transit. Absent the requirement for inclusion of the Project within a CFD, the City might not be able to make the finding that the Project is consistent with the General Plan and relevant specific plans, and might not be able to make the findings supporting approval of the Project as required by the Subdivision Map Act and the California Environmental Quality Act, and the City might be required to deny the application for the Project.

   The owner/developer shall notify all potential lot buyers prior to sale that this Project is a part of a Community Facilities District and shall inform potential buyers of the special tax amount. Said notification shall be in a manner approved by the City.

   This requirement may be waived in the discretion of the City Council if, at the time of the approval, recordation, or filing of the Project, the City Council has determined that it is not necessary that the Project be included in the CFD; and

**WHEREAS,** the terms and conditions above are the sole responsibility of the City of Clovis to monitor and enforce. The Fresno Local Agency Formation Commission will not be required to enforce the aforesaid terms and conditions as a responsible agency; and

**WHEREAS,** the reason for this proposed reorganization is to provide municipal services, local controls, and logical growth to the unincorporated area of the County that is remote from County services and undergoing urban development; and

**WHEREAS,** this annexation proposal is consistent with the proposed City of Clovis' general plan land use diagram designations; and

**WHEREAS,** the City Council has reviewed and approved the master service plan for the subject change of organization.

**NOW, THEREFORE, THE CITY COUNCIL RESOLVES AND FINDS AS FOLLOWS:**

1. The annexation of property within the boundaries set forth in **Attachment A** is in compliance with the Standards of Annexation as identified in the Memorandum of Understanding between the City of Clovis and the County of Fresno, which is commonly referred to as the Tax Sharing Agreement.

2. This Resolution of Application is hereby adopted and approved by the City Council of the City of Clovis, and the Fresno Local Agency Formation Commission is hereby requested to take proceedings for the reorganization of the territory as described in **Attachment A**, according to the terms and conditions stated above and in the manner provided by the Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000.

* * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED: December 16, 2024

_____ Mayor

_____ City Clerk

## Attachment A

## CITY OF CLOVIS ANNEXATION
## AREA TO BE ANNEXED INTO THE CITY OF CLOVIS GEOGRAPHIC DESCRIPTION

THE LAND REFERRED TO IS SITUATED IN THE UNINCORPORATED AREA OF THE COUNTY OF FRESNO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

LOTS 5 AND 12 OF GARFIELD COLONY AS RECORDED IN VOLUME 2 OF RECORD OF SURVEYS AT PAGE 46 OF FRESNO COUNTY RECORDS, IN THE COUNTY OF FRESNO, STATE OF CALIFORNIA.

EXCEPTING THEREFROM THAT PORTION OF LOT 12 DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHEAST CORNER OF SAID LOT, THENCE WESTERLY ALONG THE SOUTH LINE OF SAID LOT, 217.8 FEET; THENCE NORTHERLY, PARALLEL WITH THE EASTERLY LINE OF SAID LOT, 200.00 FEET; THENCE EASTERLY PARALLEL WITH THE SOUTH LINE OF SAID LOT, 217.8 FEET; THENCE SOUTHERLY, ALONG THE EASTERLY LINE OF SAID LOT, 200.00 FEET TO THE POINT OF BEGINNING.

NOTE: FOR THE PURPOSES OF THIS DESCRIPTION, THE NORTH LINE OF LOTS 5 AND 12 IS ASSUMED TO BE PARALLEL WITH AND 20 FEET SOUTH OF THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 19, TOWNSHIP 12 SOUTH, RANGE 21 EAST, M.D.B&M. THE WEST LINE OF LOT 5 IS ASSUMED TO BE PARALLEL WITH AND 20 FEET EAST OF THE WEST LINE OF THE NORTHEAST QUARTER OF SECTION 19, TOWNSHIP 12 SOUTH, RANGE 21 EAST, M.D.B&M. THE EAST LINE OF LOT 12 IS ASSUMED TO BE PARALLEL WITH AND 20 FEET WEST OF THE EAST LINE OF THE NORTHEAST QUARTER OF SECTION 19, TOWNSHIP 12 SOUTH, RANGE 21 EAST, M.D.B&M.

CONTAINS 37.92 ACRES, MORE OR LESS.

# TRACT 6482- GRAND OAK TRAILS- Residential Land Use Development Standards

AGENDA ITEM NO. 15.

| LAND USE | DEVELOPMENT STANDARDS | |
|---|---|---|
| SINGLE FAMILY RESIDENTIAL | | |
| **Designation** | **Standard** | **Notes** |
| Zone District | R-1-PRD | |
| GP Density Range | 7.1 - 15.0 du/ac | Medium-High Density Residential |
| Dwelling Units | 177 | Lots @ 39 x 57 min. |

| **Building Intensity** | **Standard** | **Notes** |
|---|---|---|
| Minimum Lot Area | 2223 sqft | |
| Minimum Lot Width | 39' | |
| Minimum Lot Depth | 57' | |
| Maximum Lot Coverage | 65% | Allows for future patio add-on and car ports for the single car garages. |
| Maximum Height | 35' | |
| Curved, Cul-de-sac or Corner Lot | 25' min | For street frontage |
| Corner/ Lot width Reversed Corner | 42' | Lot width |

| **Building Setbacks** | **Standard** | **Notes** |
|---|---|---|
| Front Yard | 18' min.5 ' min. | To garage/To living area, projections and/or porch/patio |
| Side Yard | 5' min3 ' min | 5' min garage side3 ' min opposite side |
| CornerReverse Corner | 3' min8 ' min | To side yard fence/To living area |
| Rear Yard | 5' min | |

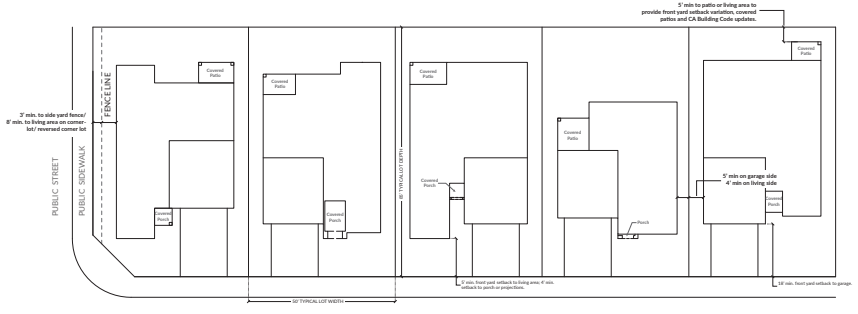
| **Garages/Streets/Parking** | **Standard** | **Notes** |
|---|---|---|
| Garages | 1- car | 10' x 20' min. |
| | 2-car | 20' x 20' min. |
| Streets (Public) | 50' wide | |
| On-Street Parking | Yes | |

| **Accessory Uses** | | **General list of requirements and restrictions.** |
|---|---|---|
| Walls/Fences | 6' min - 8' height max | |
| Trellises | 12' height max | |
| Pools and Spas | 5' min | Water portion to rear and side PLs. Pool and spa may not be located in front yard. |
| Equipment | Pool, spa and fountain equipment allowed in side yard easement. | |

| **Covered Structures** | | |
|---|---|---|
| Accessory Buildings | 12' height max | Covered structures and building additions are allowed subject to review by the City of Clovis, provided that lot coverage standards are not exceeded and that a rear yard encroachment permit is obtained if encroachment into rear yard occurs. |

DISCOVER SERIES

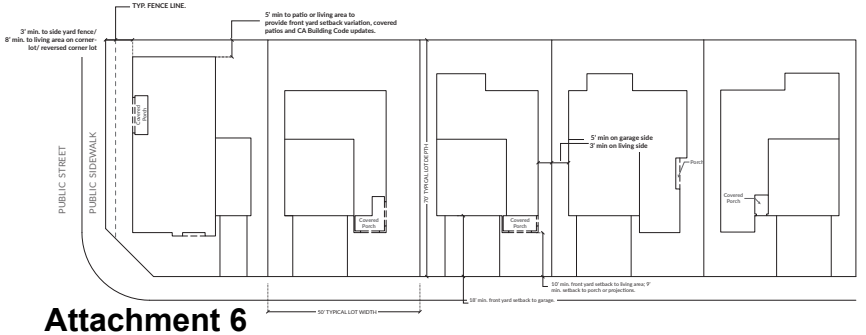





NOT TO SCALE

COMPASS SERIES






NOT TO SCALE

The imagery conveys samples of the architectural character intended for these neighborhoods.

Attachment 6

# TRACT 6482- GRAND OAK TRAILS- Residential Land Use Development Standards

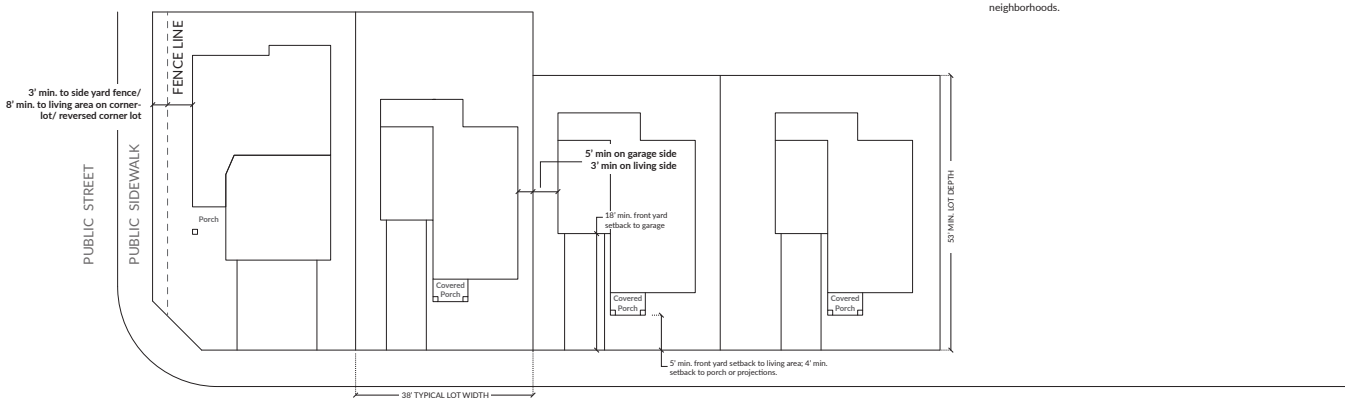
AGENDA ITEM NO. 15.

| LAND USE | DEVELOPMENT STANDARDS | |
|---|---|---|
| SINGLE FAMILY RESIDENTIAL | | |
| **DESIGNATION** | **Standard** | **Notes** |
| Zone District | R-1-PRD | |
| GP Density Range | 7.1 - 15.0 du/ac | Medium-High Density Residential |
| Dwelling Units | 89 | Lots @ 37 x 55 min. |
| **Building Intensity** | **Standard** | **Notes** |
| Minimum Lot Area | 1836 sqft | |
| Minimum Lot Width | 36' | |
| Minimum Lot Depth | 53' | |
| Maximum Lot Coverage | 65% | Allows for future patio add-on and car ports for the single car garages. |
| Maximum Height | 35' | |
| Curved, Cul-de-sac or Corner Lot | 20' min | For street frontage |
| Corner/ Lot width Reversed Corner | 39' min | Lot width |
| **Building Setbacks** | **Standard** | **Notes** |
| Front Yard | 18' min.5' min.4' min. | To garage/To living area/To projections and/or porch/patio |
| Side Yard | 5' min3' min | 5' min garage side3' min opposite side |
| CornerReverse Corner | 3' min8' min | To side yard fence/To living area |
| Rear Yard | 5' min | |
| **Garages/Streets/Parking** | **Standard** | **Notes** |
| Garages | 1- car | 10' x 20' min. |
| | 2-car | 20' x 20' min. |
| Streets (Public) | 50' wide | |
| On-Street Parking | Yes | |
| **Accessory Uses** | | **General list of requirements and restrictions.** |
| Walls/Fences | 6' min - 8' height max | |
| Trellises | 12' height max | |
| Pools and Spas | 5' min | Water portion to rear and side PLs. Pool and spa may not be located in front yard. |
| Equipment | Pool, spa and fountain equipment allowed in side yard easement. | |
| **Covered Structures** | | |
| Accessory Buildings | 12' height max | Covered structures and building additions are allowed subject to review by the City of Clovis, provided that lot coverage standards are not exceeded and that a rear yard encroachment permit is obtained if encroachment into rear yard occurs. |

FREEDOM SERIES



The imagery conveys samples of the architectural character intended for these neighborhoods.




**NOT TO SCALE**

NOTE: Construction of more than two of the same plan type in a row or more than three 2-car garage models in a row (excepting tandem garage units) shall be addressed through the Residential Site Plan Review process.




NOTES

- PLAYGROUND EQUIPMENT WILL REQUIRE CERTIFICA-
- TABLES SHALL BE SECURED TO GROUND USING AN-CHORS INTO THE CONCRETE, CHAINS AND LOCK NOT
- PLANTING AREA SHALL NOT INCLUDE ROSE BUSHES
- CELEBRATION HYBRID BERMUDA FOR GRASS AREAS

NORTH

10 SCALE

BROUSSARD
ASSOCIATES
landscape architects
389 Clovis Ave.
Suite 200 Clovis, CA 93612
T 559.325.7284
F 559.325.7286

**DeYoung Heritage Grove | Peach and Behymer Park Concept**

**Attachment 7**



Shade Structure from Poligon



Playground Age 2-5 from Gametime (Coghill)



Playground Age 5-12 from Gametime (Double Decker)



P.I.P. Conrete Seat Walls



Ping Pong 3 from QCP, Color: TBS



Alfresco Table 72 Dining Set from Loll Designs



Adirondacks with Satellite Bundle from Loll Designs

# DeYoung Heritage Grove | Peach and Behymer Park Vision

BROUSSARD
ASSOCIATES
landscape architects
389 Clovis Ave.
Suite 200 Clovis, CA 93612
T 559.325.7284
F 559.325.7286

# RESIDENCE 140

INCLUDED



MODERN SPANISH

PERSONAL SELECTION



MODERN FARMHOUSE

PERSONAL SELECTION



CONTEMPO

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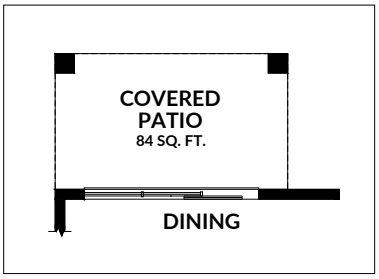
# RESIDENCE 140

## FEATURES
3 Bedrooms
2 Baths
Dining Room
2-Car Garage

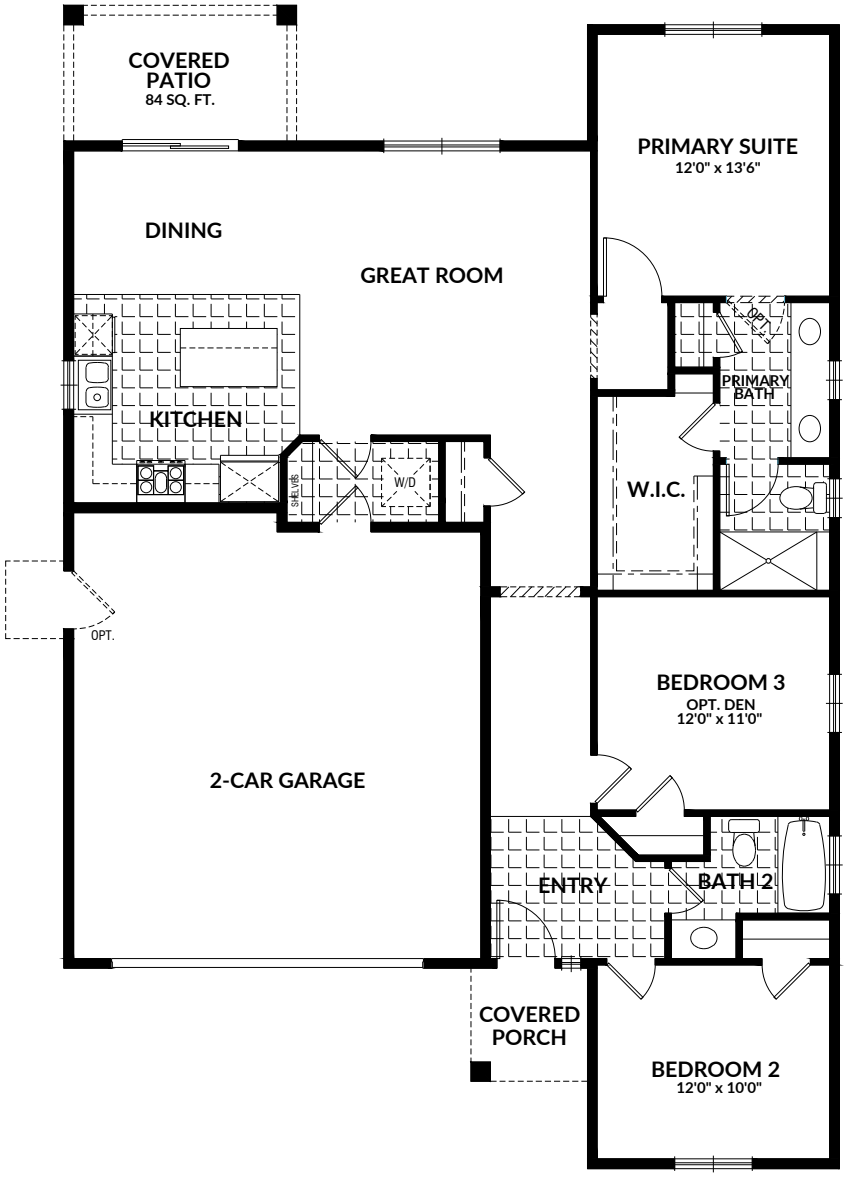
## FLOORPLAN
1,401 SQ. FT.

## OUTDOOR LIVING SPACE
119 SQ. FT.

To view all De Young Properties floorplans, visit:
www.deyoungproperties.com/new-homes/floorplans/




OPT. 9' SLIDING GLASS DOOR




Elevation • Modern Spanish
9' Ceiling

559.656.0550
www.deyoungproperties.com

BROKER CO-OP WELCOME

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# RESIDENCE 150

**PRELIMINARY**
**UNDER REVIEW**
Changes may occur.
Square footage is approximate.



INCLUDED



ALL ELEVATIONS TO FEATURE TIMBERLINE HDZ® REFLECTOR SERIES SHINGLES (NOT SHOWN)

MODERN SPANISH

PERSONAL SELECTION



ALL ELEVATIONS TO FEATURE TIMBERLINE HDZ® REFLECTOR SERIES SHINGLES (NOT SHOWN)

CONTEMPO

PERSONAL SELECTION



ALL ELEVATIONS TO FEATURE TIMBERLINE HDZ® REFLECTOR SERIES SHINGLES (SHOWN ABOVE)

TUSCAN

PERSONAL SELECTION



ALL ELEVATIONS TO FEATURE TIMBERLINE HDZ® REFLECTOR SERIES SHINGLES (NOT SHOWN)

MODERN FARMH

de young properties

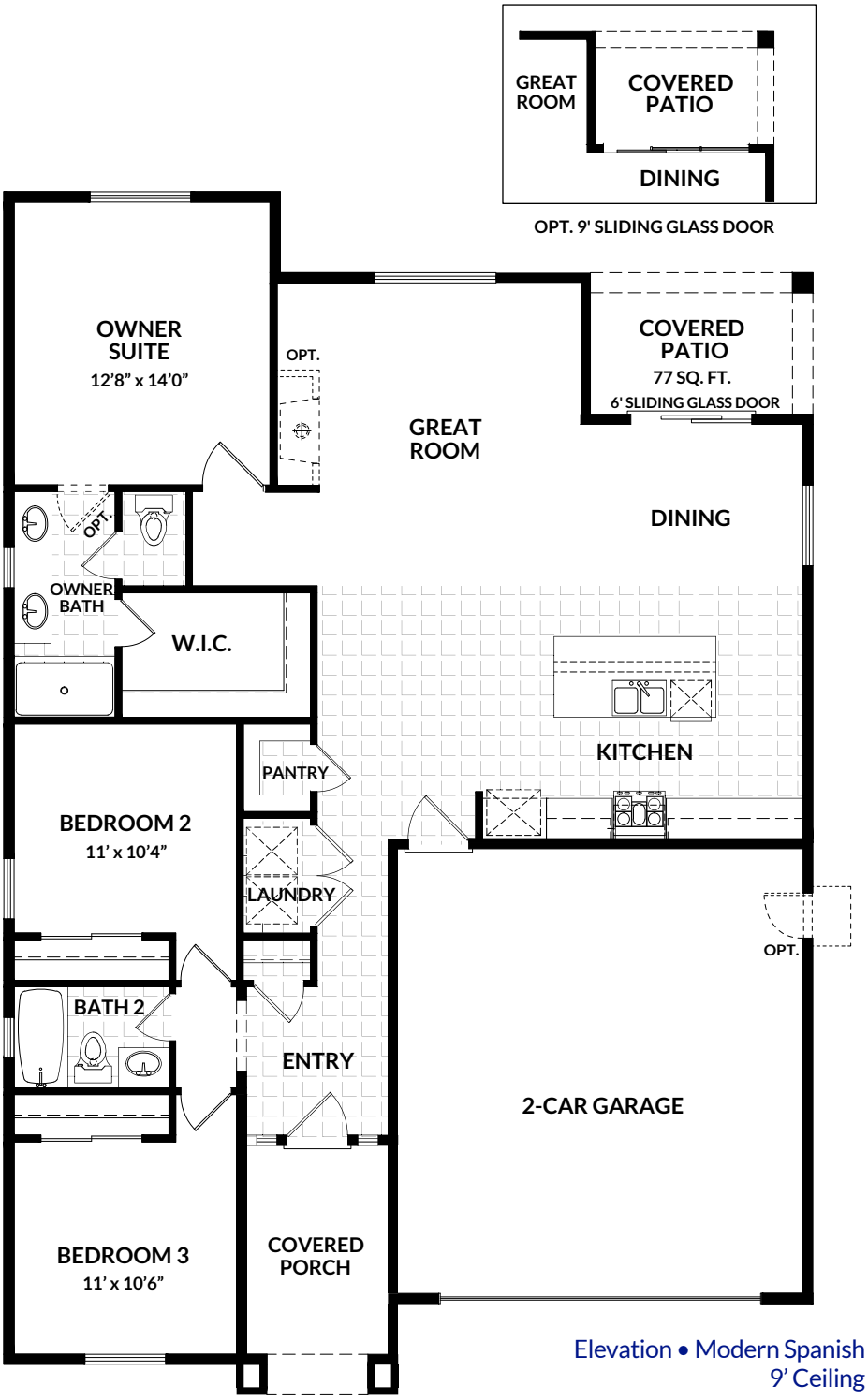
# RESIDENCE 150

## FEATURES
3 Bedrooms
2 Baths
Dining Room
2-Car Garage

## FLOORPLAN
1,515 SQ. FT.

## OUTDOOR LIVING SPACE
166 SQ. FT.

To view all De Young Properties floorplans, visit:
www.deyoungproperties.com/new-homes/floorplans/




Elevation • Modern Spanish
9' Ceiling

**PRELIMINARY UNDER REVIEW**
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Square footage is approximate.

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# RESIDENCE 160



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PERSONAL SELECTION



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ITALIANATE

PERSONAL SELECTION



ALL ELEVATIONS TO FEATURE TIMBERLINE HDZ® REFLECTOR SERIES SHINGLES (NOT SHOWN)

CONTEMPO

PERSONAL SELECTION



ALL ELEVATIONS TO FEATURE TIMBERLINE HDZ® REFLECTOR SERIES SHINGLES (SHOWN ABOVE)

MODERN FARMH

**PRELIMINARY UNDER REVIEW**

Changes may occur.
Square footage is approximate.

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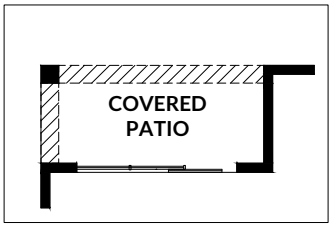
# RESIDENCE 160

## FEATURES
3 Bedrooms
2 Baths
Dining Room
2-Car Garage

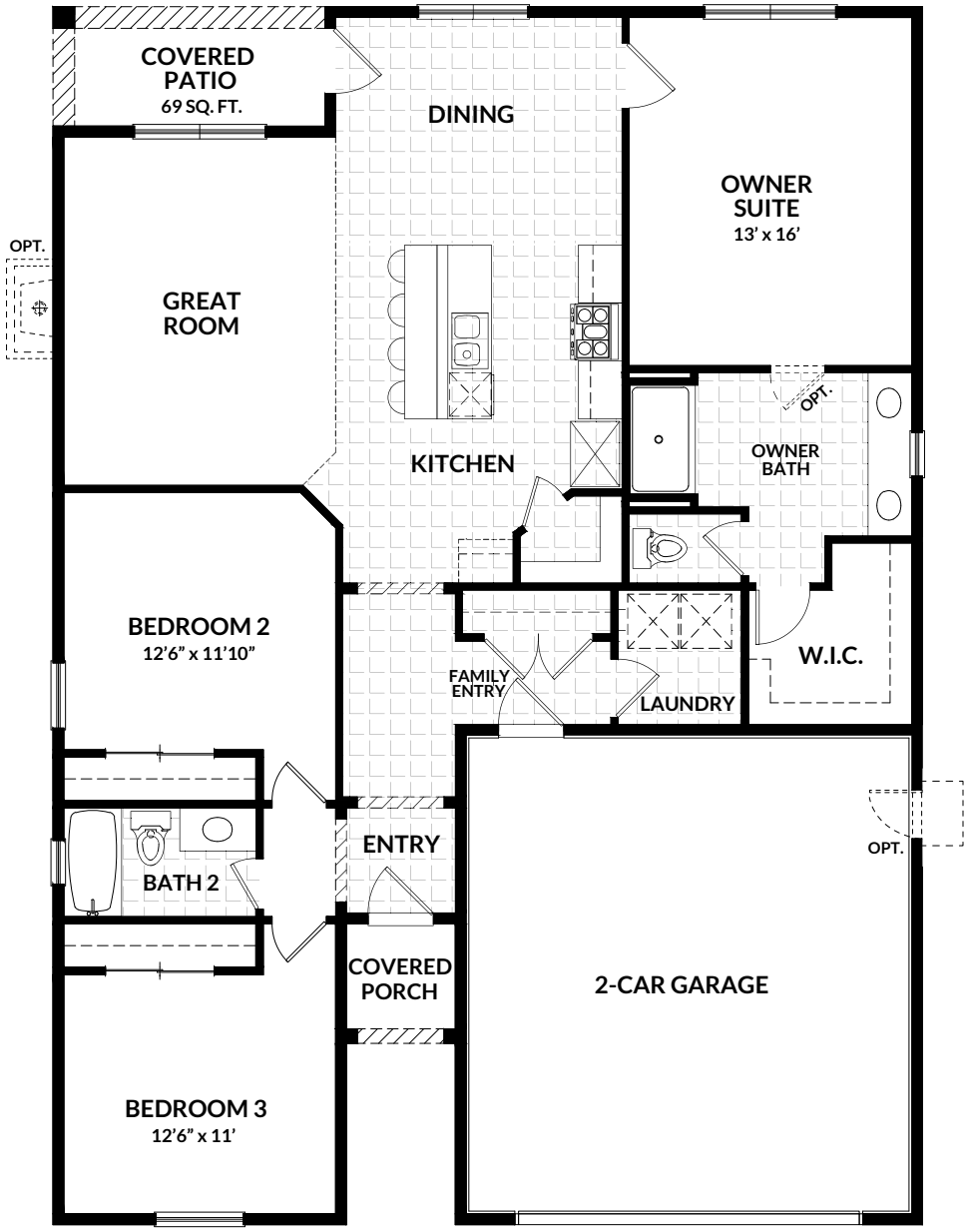
## FLOORPLAN
1,608 SQ. FT.

## OUTDOOR LIVING SPACE
97 – 216 SQ. FT.

To view all De Young Properties floorplans, visit:
**www.deyoungproperties.com/new-homes/floorplans/**




OPT. 9' SLIDING GLASS DOOR




Elevation • Modern Spanish
9' Ceiling

**PRELIMINARY UNDER REVIEW**
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Square footage is approximate.

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# RESIDENCE 180













**PRELIMINARY**
**UNDER REVIEW**
Changes may occur.
Square footage is approximate.

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# RESIDENCE 180

## FEATURES
3 Bedrooms
2.5 Baths
2-Car Garage

## FLOORPLAN
1,826 - 1,871 SQ. FT.

## OUTDOOR LIVING SPACE
140 - 158 SQ. FT.

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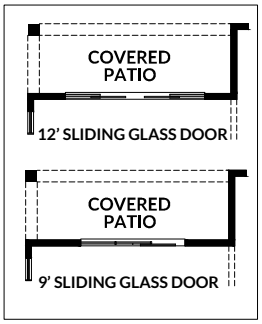
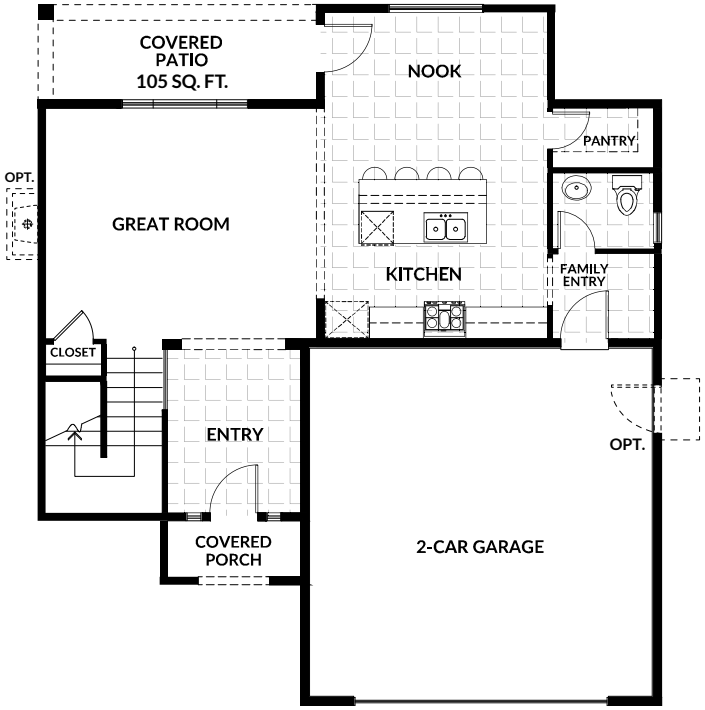



OPT. SLIDING GLASS DOORS




Elevation • Modern Spanish
9' Ceiling




Second Floor • 9' Ceiling

**PRELIMINARY UNDER REVIEW**
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Square footage is approximate.

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# RESIDENCE 220















**PRELIMINARY UNDER REVIEW**

Changes may occur.
Square footage is approximate.

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# RESIDENCE 220

## FEATURES
4 Bedrooms
3 Baths
2-Car Garage

## FLEX YOUR FLOORPLAN
Flex Loft

## FLOORPLAN
2,303 - 2,626 SQ. FT.

## OUTDOOR LIVING SPACE
113 – 130 SQ. FT.

To view all De Young Properties floorplans, visit:
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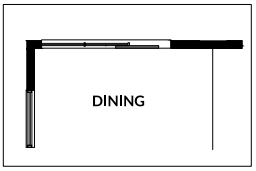
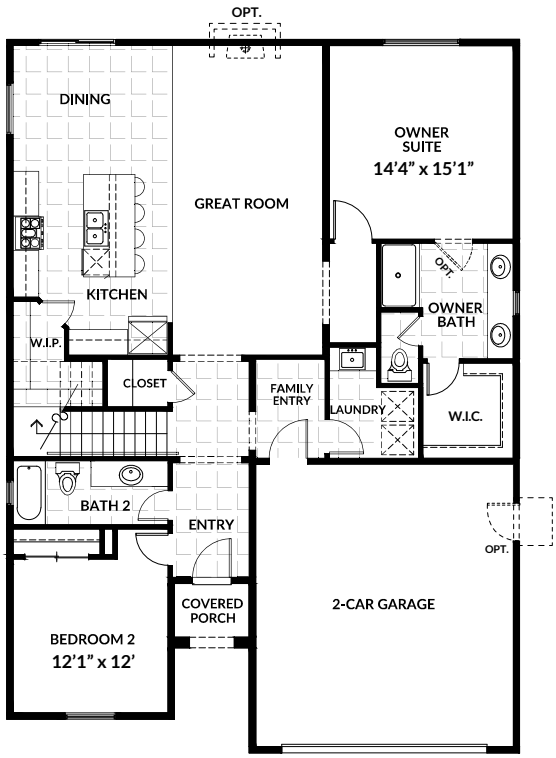
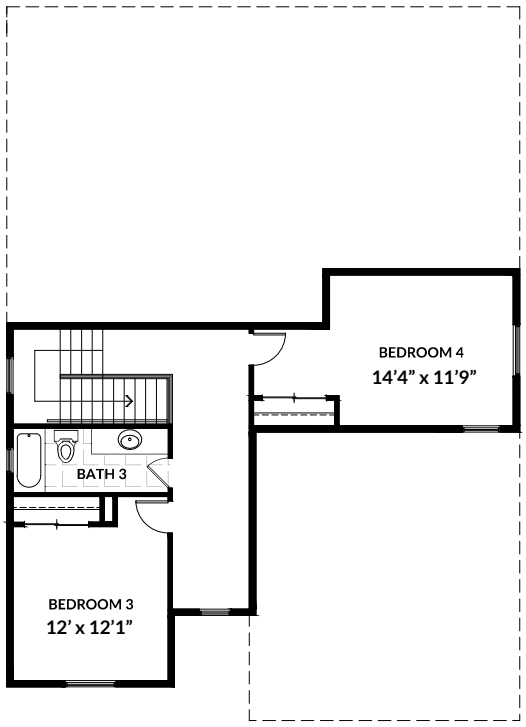


OPT. 9' SLIDING GLASS DOOR

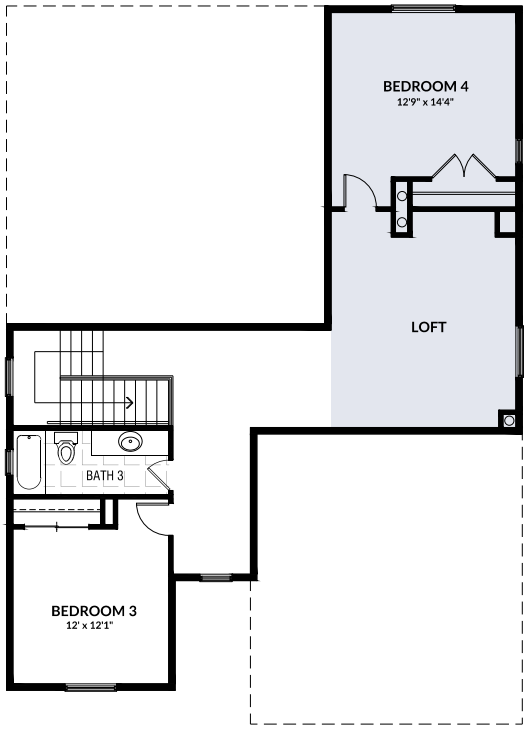


Elevation • Modern Spanish
9' Ceiling

## FLEX LOFT



Second Floor • 9' Ceiling



Second Floor • 9' Ceiling

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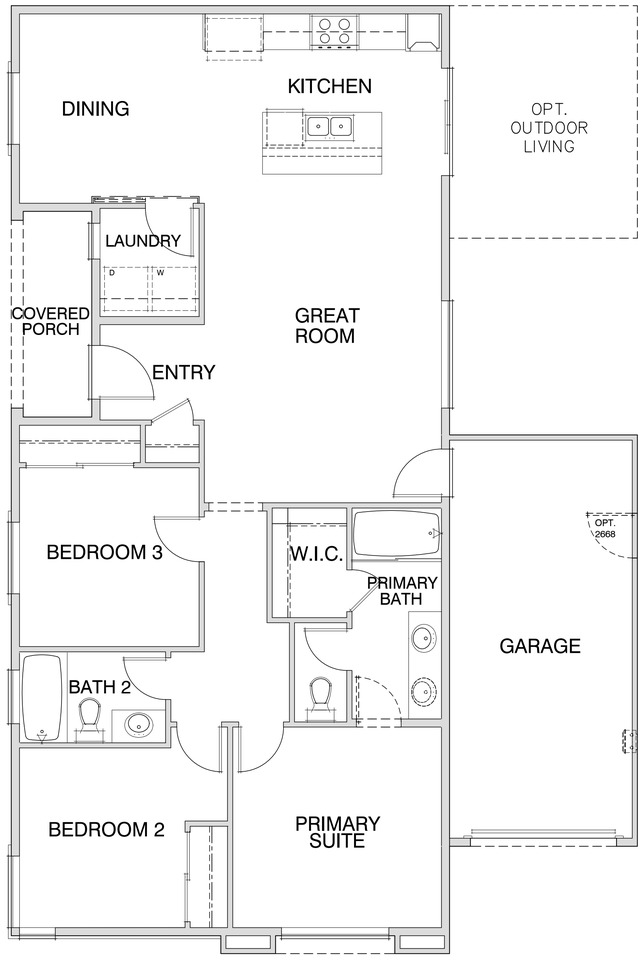
# PLAN 1




## PLAN 1 SQUARE FOOTAGE

| | |
|---|---|
| FLOOR PLAN | 1222 |
| GARAGE | 242 |
| PORCH | 52 |
| OPT. OUTDOOR LIVING | 136 |

NOTE: FINISHED SQUARE FOOTAGE CALCULATIONS FOR THIS HOUSE WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQUARE FOOTAGE OF THE HOUSE AS BUILT.

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RYAN DE YOUNG
677 W. PALMDON DR. SUITE 208
FRESNO, CA. 93704 (559) 435-0900

REVISIONS

| DATE | DESCRIPTION | INT. |
|---|---|---|

Ryan De Young
President
677 W. PALMDON DR. SUITE 208
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PLAN
1
CITY OF CLOVIS

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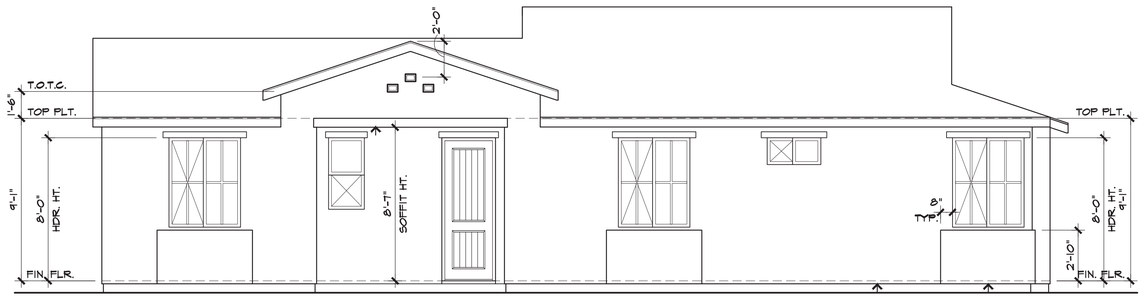
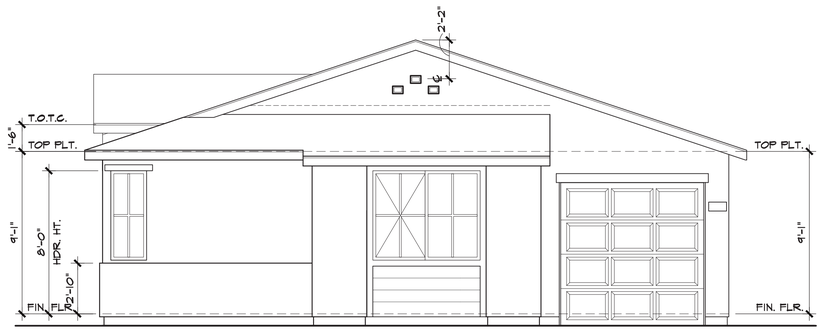
DATE: 05/30/24
SCALE:

SHEET
A1

## MODERN SPANISH

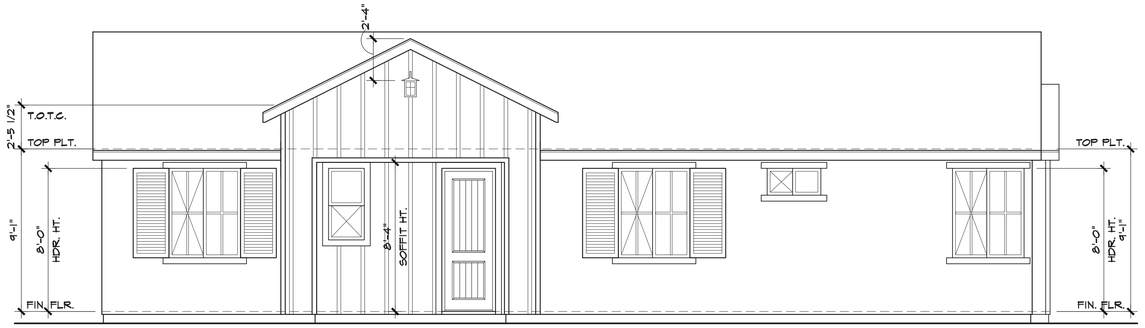



STREET SIDE ELEVATION

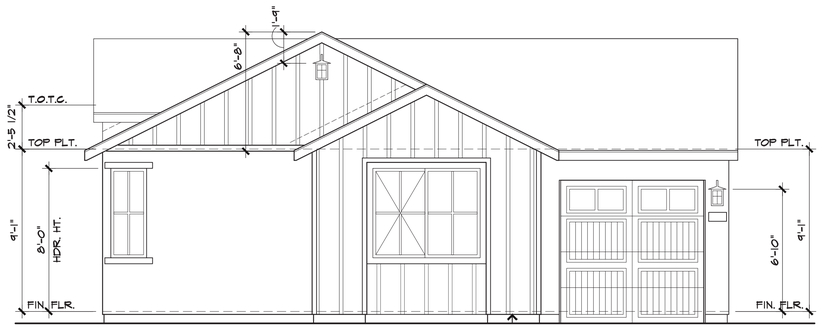



FRONT ELEVATION

## MODERN FARMHOUSE

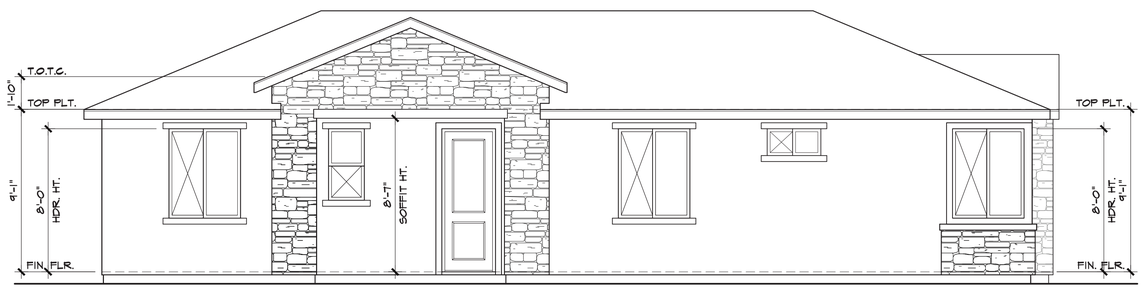



STREET SIDE

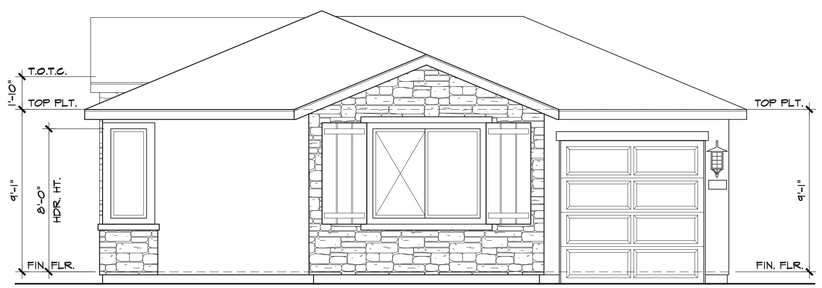



FRONT ELEVATION

## CONTEMPORARY TUSCAN




STREET SIDE ELEVATION




FRONT ELEVATION

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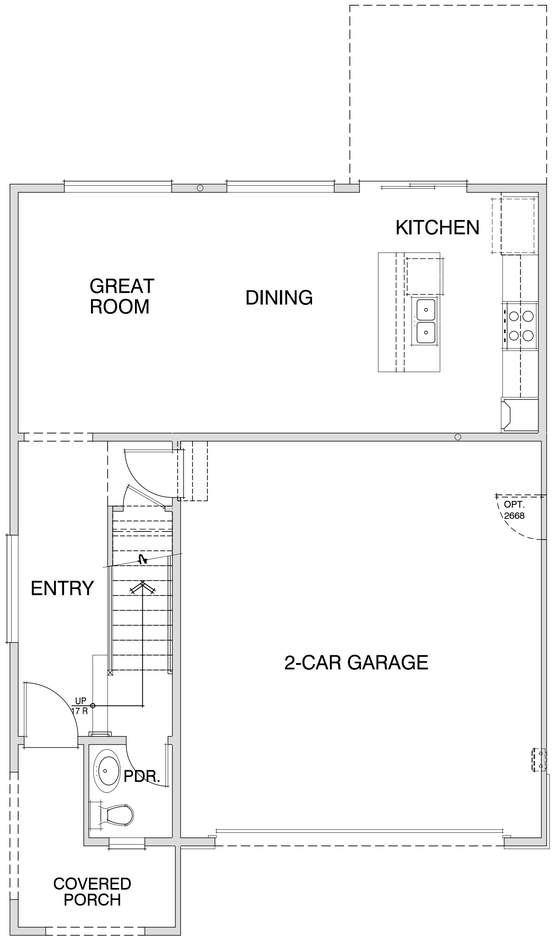
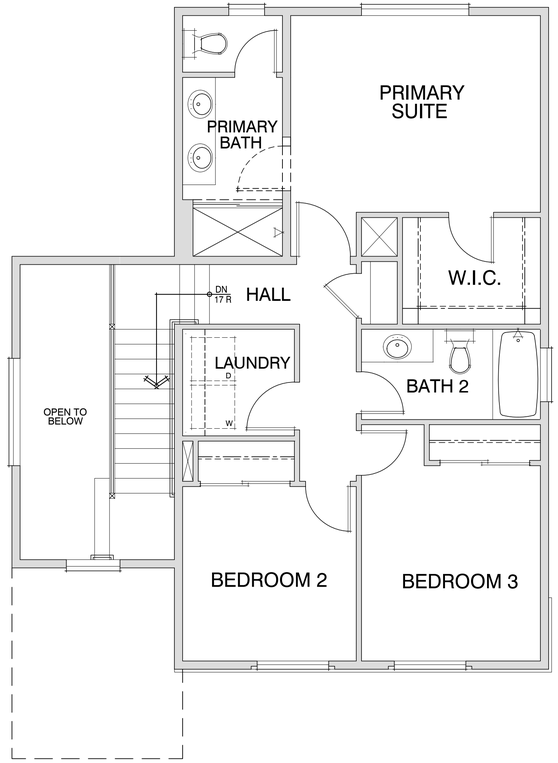
A1-2

# PLAN 2




FIRST FLOOR PLAN A

SCALE: 1/4"=1'-0"




SECOND FLOOR PLAN A

SCALE: 1/4"=1'-0"

## PLAN 2 SQUARE FOOTAGE

| | |
|---|---|
| FIRST FLOOR | 624 |
| SECOND FLOOR | 768 |
| TOTAL | 1,392 |
| GARAGE | 463 |
| PORCH | 71 |
| OPT. OUTDOOR LIVING | 110 |

NOTE: FINISHED SQUARE FOOTAGE CALCULATIONS FOR THIS HOUSE WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQUARE FOOTAGE OF THE HOUSE AS BUILT.

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PLAN
2
CITY OF CLOVIS

DRAWN BY: DE YOUNG PROPERTIES
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SCALE:

SHEET
A1

## MODERN SPANISH



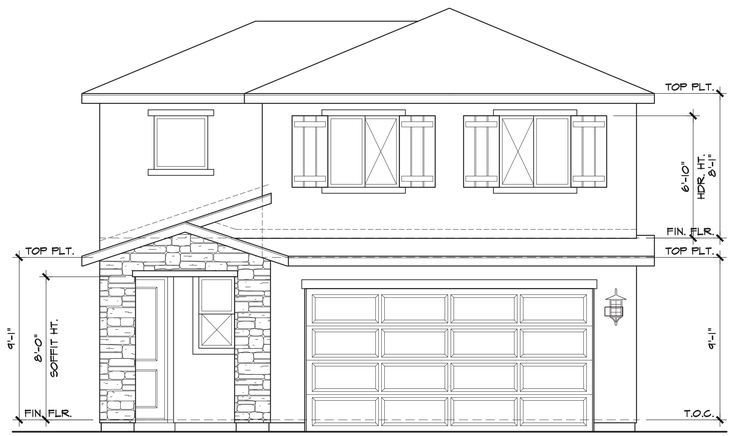

FRONT ELEVATION

## MODERN FARMHOUSE




FRONT ELEVATION

## CONTEMPORARY TUSCAN




FRONT ELEVATION

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PLAN
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CITY OF CLOVIS

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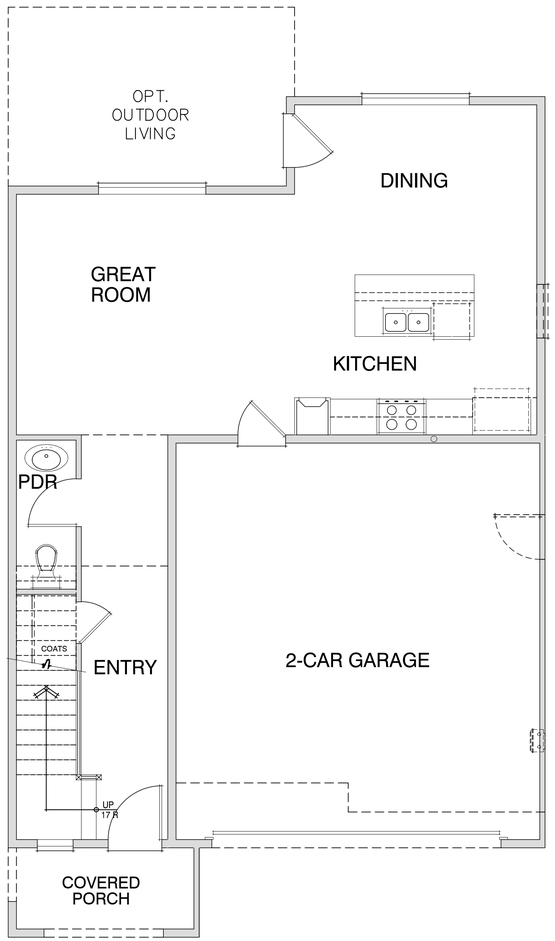
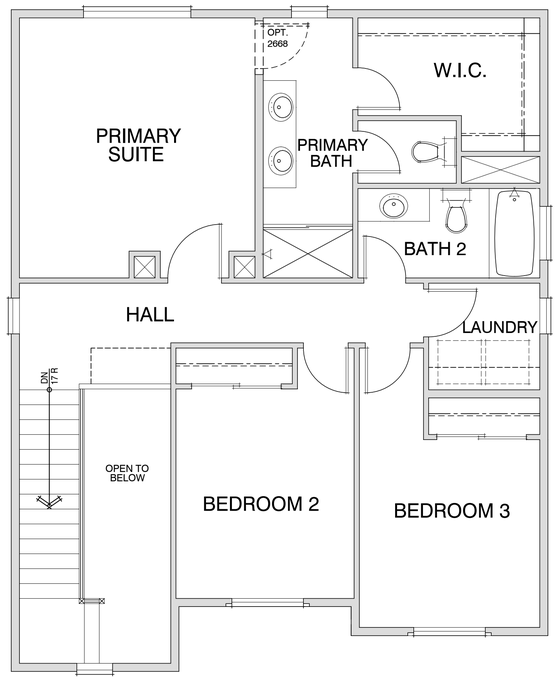
# PLAN 3




FIRST FLOOR PLAN A

SCALE: 1/4" = 1'-0"




SECOND FLOOR PLAN A

SCALE: 1/4" = 1'-0"

## PLAN 3 SQUARE FOOTAGE

| | |
|---|---|
| FIRST FLOOR | 716 |
| SECOND FLOOR | 911 |
| TOTAL | 1,627 |
| GARAGE | 467 |
| PORCH | 53 |
| OPT. OUTDOOR LIVING | 155 |

NOTE: FINISHED SQUARE FOOTAGE CALCULATIONS FOR THIS HOUSE WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQUARE FOOTAGE OF THE HOUSE AS BUILT.

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PLAN
3
CITY OF CLOVIS

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SCALE:

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A1

## MODERN SPANISH




FRONT ELEVATION

## MODERN FARMHOUSE




FRONT ELEVATION

## CONTEMPORARY TUSCAN




FRONT ELEVATION

REVISIONS

| DESCRIPTION | DATE | INT. |
|---|---|---|

**Ryan De Young**
**President**
677 W. PALMDON DR. SUITE 208
FRESNO, CALIFORNIA 93704
PH: (559) 435-0900
Fax: (559) 435-4474
de young properties

PLAN
3
CITY OF CLOVIS

DRAWN BY: DE YOUNG PROPERTIES
DATE: 05/30/24
SCALE:

SHEET
A3-2

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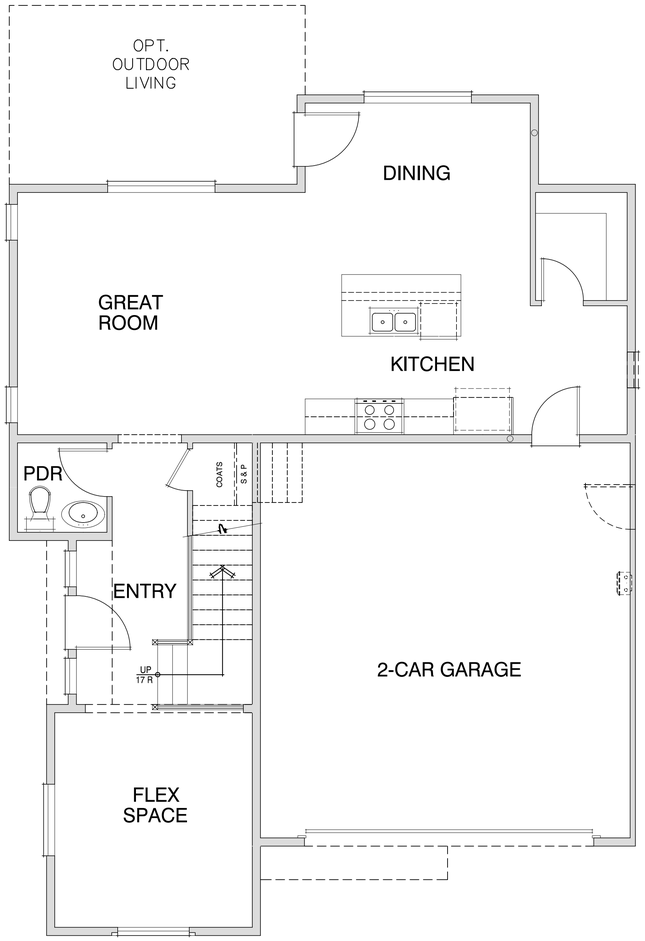
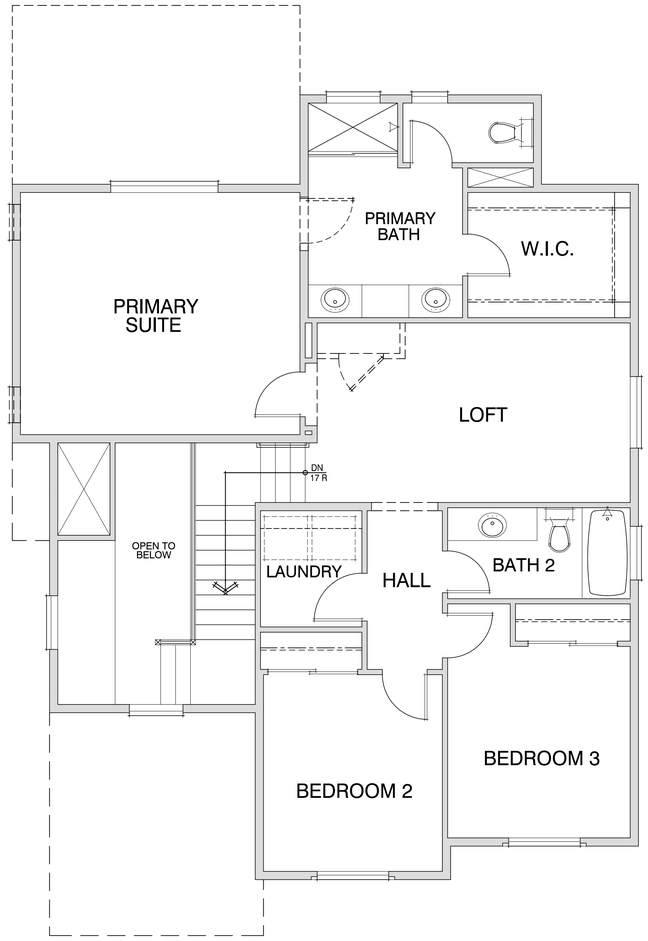
PERSON RESPONSIBLE FOR PLANS :
RYAN DE YOUNG
677 W. PALMDON DR. SUITE 208
FRESNO, CA. 93704 (559) 435-0900

# PLAN 4




FIRST FLOOR PLAN A

SCALE: 1/4"= 1'-0"




SECOND FLOOR PLAN A

SCALE: 1/4"= 1'-0"

## PLAN 4 SQUARE FOOTAGE

| | |
|---|---|
| FIRST FLOOR | 903 |
| SECOND FLOOR | 1077 |
| TOTAL | 1,980 |
| GARAGE | 472 |
| PORCH | 50 |
| OPT. OUTDOOR LIVING | 163 |

NOTE: FINISHED SQUARE FOOTAGE CALCULATIONS FOR THIS HOUSE WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQUARE FOOTAGE OF THE HOUSE AS BUILT.

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FRESNO, CA. 93704 (559) 435-0900

REVISIONS

| INT. | DESCRIPTION | DATE |
|---|---|---|
| | | |

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President
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PLAN
4
CITY OF CLOVIS

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DATE: 05/30/24
SCALE:

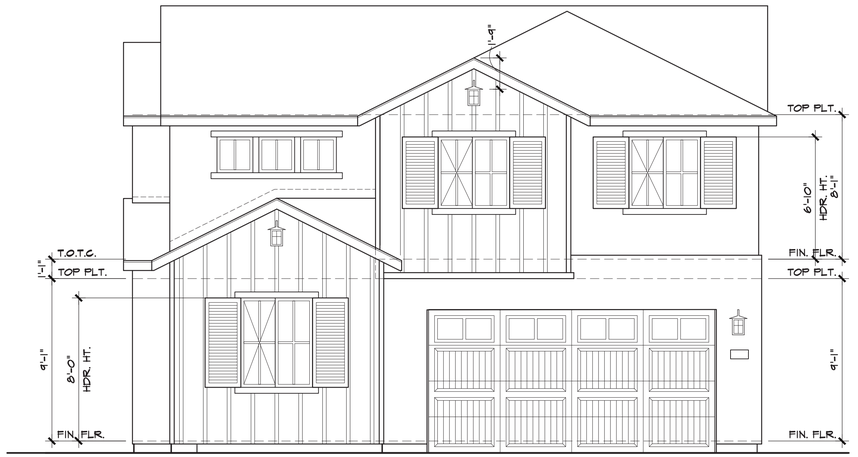
SHEET
A1

## MODERN SPANISH




FRONT ELEVATION

## MODERN FARMHOUSE




FRONT ELEVATION

## CONTEMPORARY TUSCAN




FRONT ELEVATION

| REVISIONS | | |
|---|---|---|
| DATE | DESCRIPTION | INT. |

**Ryan De Young**
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PLAN
4
CITY OF CLOVIS

DRAWN BY: DE YOUNG PROPERTIES
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PERSON RESPONSIBLE FOR PLANS :
RYAN DE YOUNG
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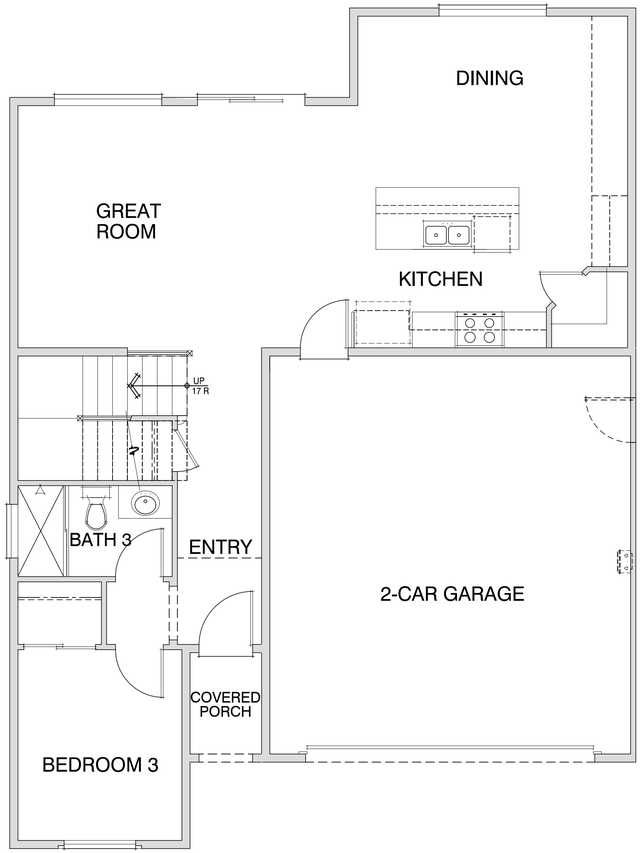
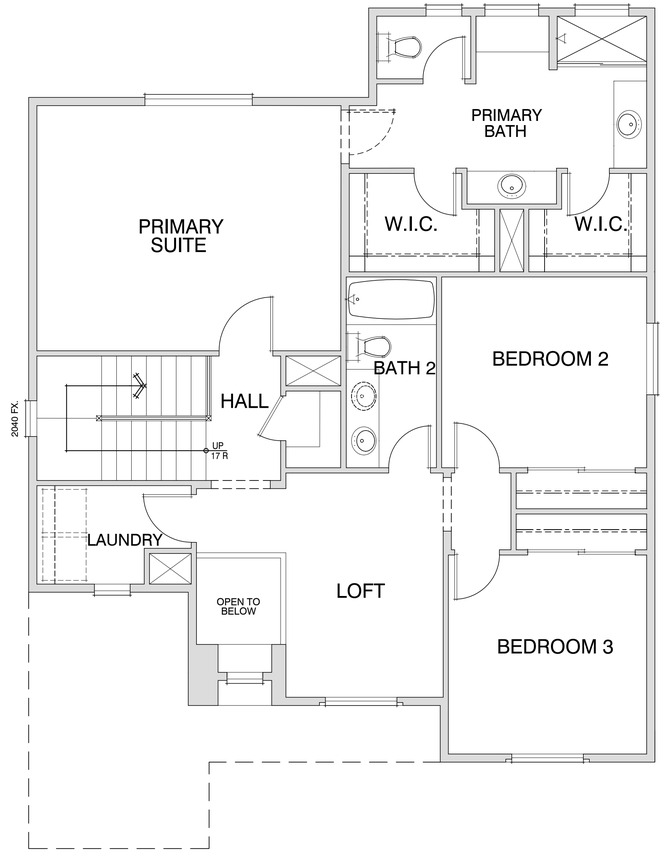
FRESNO, CA. 93704 (559) 435-0900

# PLAN 5




FIRST FLOOR PLAN A

SCALE: 1/4"=1'-0"




SECOND FLOOR PLAN A

SCALE: 1/4"=1'-0"

## PLAN 5 SQUARE FOOTAGE

| | |
|---|---|
| FIRST FLOOR | 938 |
| SECOND FLOOR | 1141 |
| TOTAL | 2,079 |
| GARAGE | 464 |
| PORCH | 27 |
| OPT. OUTDOOR LIVING | 190 |

NOTE: FINISHED SQUARE FOOTAGE CALCULATIONS FOR THIS HOUSE WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQUARE FOOTAGE OF THE HOUSE AS BUILT.

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PERSON RESPONSIBLE FOR PLANS :
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REVISIONS

| DATE | DESCRIPTION | INT. |
|---|---|---|

Ryan De Young
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fax: (559) 455-4474
de young properties

PLAN
5
CITY OF CLOVIS

DRAWN BY: DE YOUNG PROPERTIES
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SCALE:

SHEET
A1

## MODERN SPANISH



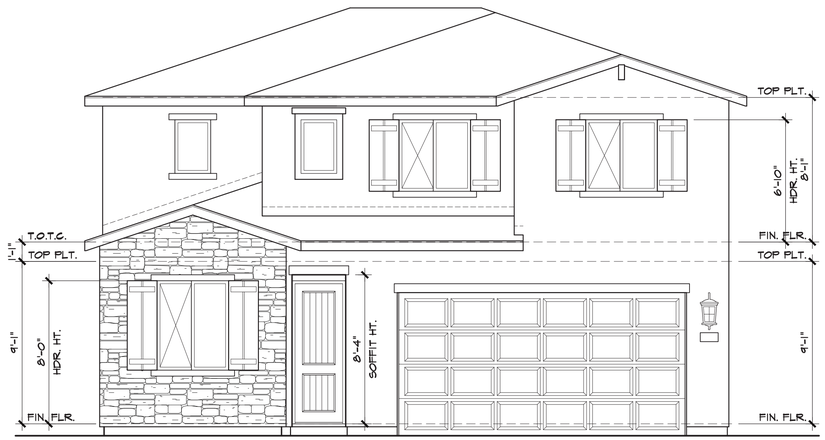

FRONT ELEVATION

## MODERN FARMHOUSE




FRONT ELEVATION

## CONTEMPORARY TUSCAN




FRONT ELEVATION

REVISIONS

| DATE | DESCRIPTION | INT. |
|---|---|---|

**Ryan De Young**
**President**
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de young properties

PLAN
5
CITY OF CLOVIS

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PERSON RESPONSIBLE FOR PLANS :
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FRESNO, CA. 93704 (559) 435-0900

# DeYoung Properties

## Proposed 1200,1400,1600,1900 Elevations

3-22-2024

Phase 1

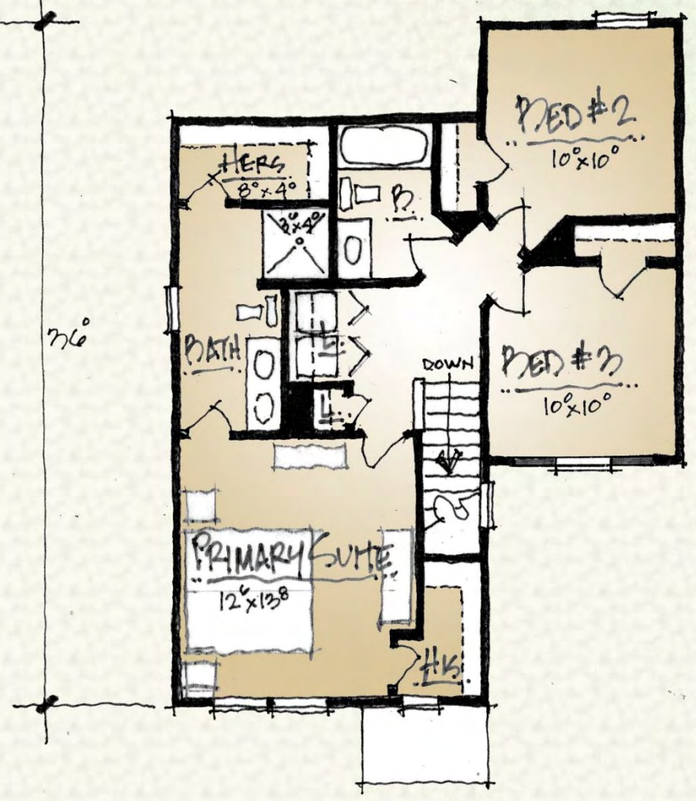
VERSION I

Phase 2 approximate 60 days once approved

TK DESIGN

CREATIVE·COLLABORATIVE




FIRST FLOOR PLAN

550 sf.

SECOND FLOOR PLAN

725 sf.

1275 sf.




PROPOSED 1275 MODERN SPANISH ELEVATION



Proposed 1275 Modern Prairie Elevation



PROPOSED 1275 MODERN ELEVATION




FIRST FLOOR PLAN
650 sf

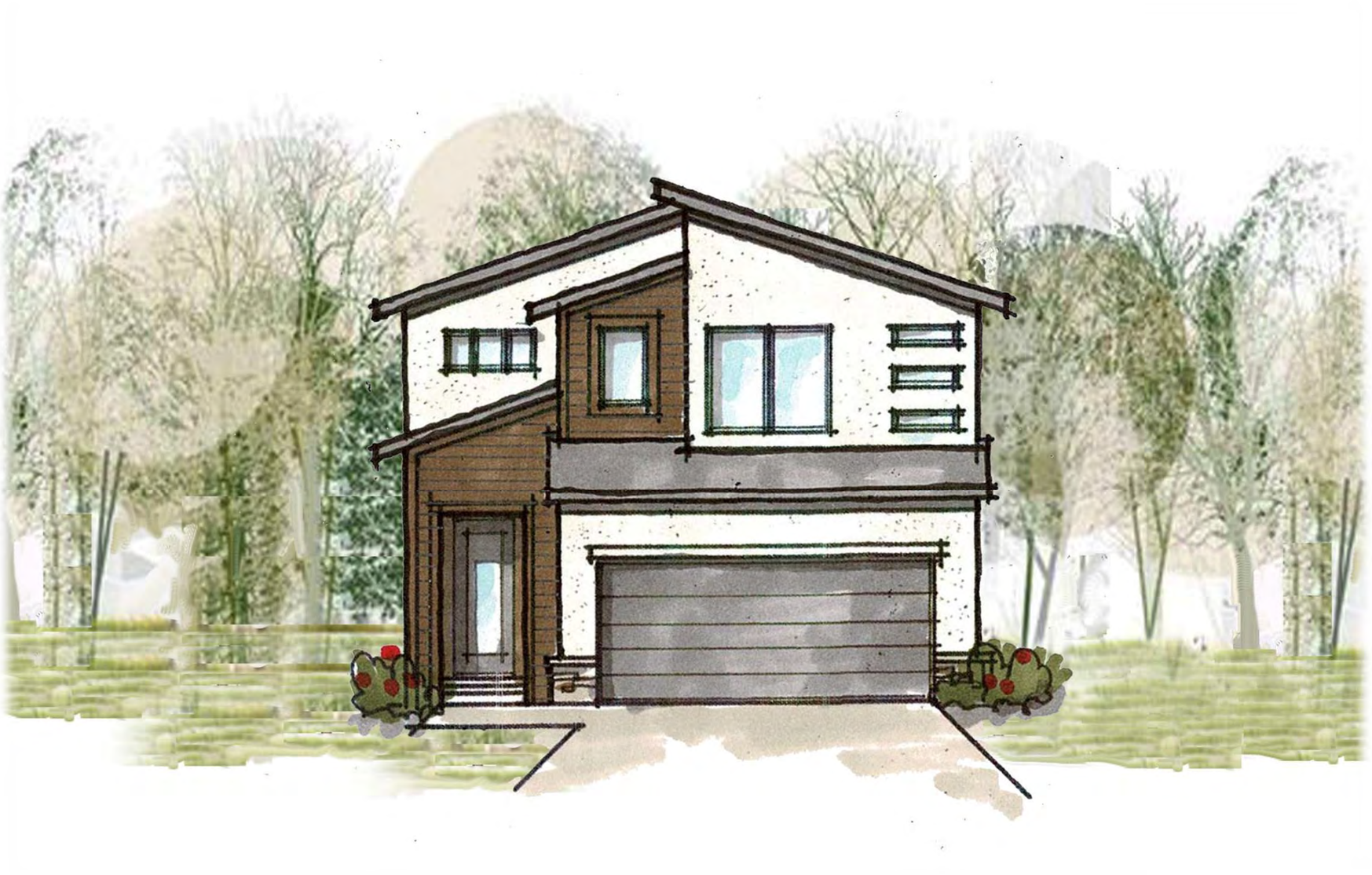
SECOND FLOOR PLAN
775 sf.




PROPOSED 1425 MODERN SPANISH ELEVATION



Proposed 1425 Modern Prairie Elevation



Proposed 1425 Modern Elevation




PROPOSED 1645 MODERN SPANISH ELEVATION



PROPOSED 1645 MODERN PRAIRIE ELEVATION



Proposed 1645 Modern Elevation

# County of Fresno

DEPARTMENT OF PUBLIC WORKS AND PLANNING
**STEVEN E. WHITE, DIRECTOR**

September 27, 2024

Marissa Jensen, MA
Assistant Planner, Planning Division
City of Clovis
1033 Fifth Street
Clovis, CA 93612

**SUBJECT: City of Clovis TM 6482 , R2024-006, PDP2024-002, and RO311- 266-lot single-family planned residential subdivision**

Dear Ms. Jensen:

The County of Fresno appreciates the opportunity to review and comment on the subject project being reviewed by the City of Clovis. The proposed 266-lot single-family residential subdivision is located on the south side of E. Behymer Avenue, between N. Peach and N. Minnewawa Avenues.

The documents received for this review were circulated to our various Fresno County Public Works and Planning divisions. See comments below.

**Fresno County Transportation Division:**

This project will impact County facilities and should require a TIS, please include the County in all future routings best point of contact is hluna@fresnocountyca.gov. Using ITE trip Generation Manual (11th Edition) trips are calculated to be over the County's threshold.

A Vehicle Miles Traveled (VMT) analysis should also be prepared for the proposed development.

The County would Like to request the following intersections be included in the traffic impact study:

- The intersection of Behymer Avenue and Minnewawa Avenue
- Behymer Avenue, from Peach Avenue to Minnewawa Avenue
- The newly constructed segment of Peach Avenue adjacent to the subject site
- The segment of Minnewawa Avenue adjacent to the subject site

Sincerely,

*Alexander Pretzer*
Alexander Pretzer, Planner Development Services and Capital Projects Division

DR:AP:G:\4360Devs&Pln\PROJSEC\PROJDOCS\Environmental\OAR\City of Clovis\TM 6482, R2024-006, PDP 2024-002, and RO311\TM 6482, R2024-006, PDP2024-002, and RO311 City of Clovis- RESPONSE LETTER.docx

**Attachment 9**

**County of Fresno**
DEPARTMENT OF PUBLIC HEALTH
Environmental Health Division

September 24, 2024

LU0022411
2604

Marissa Jensen, Assistant Planner
City of Clovis
Planning and Development Services Department
1033 Fifth Street
Clovis, CA 93612

Dear Ms. Jensen:

PROJECT NUMBER: **TM6482, R2024-006, PDP2024-002, RO311**

**TM6482**; A request to approve a tentative tract map for a 266-lot single-family planned residential development on approximately 36.92 acres. **R2024-006**; A request to prezone approximately 37.92 acres from Fresno County AE-20 to the Clovis R-1-PRD Zone District. **PDP2024-002**; A planned development permit required for a 266-lot single-family planned residential development for land located on the south side of E. Behymer Avenue, between N. Peach and N. Minnewawa Avenues.

**APN: 556-010-12, -28, -29** **ZONING: AE-20 to R-1-PRD**
**ADDRESS: SEC N. Peach & E. Behymer Avenues**

Recommended Conditions of Approval:

- Construction permits for development should be subject to assurance of sewer capacity of the Regional Wastewater Treatment Facility. Concurrence should be obtained from the California Regional Water Quality Control Board (RWQCB). For more information, contact staff at (559) 445-5116.

- Construction permits for the development should be subject to assurance that the City of Clovis community water system has the capacity and quality to serve this project. Concurrence should be obtained from the State Water Resources Control Board, Division of Drinking Water-Southern Branch. For more information call (559) 447-3300.

- The proposed project has the potential to expose nearby residents to elevated noise levels. Consideration should be given to the Fresno County Ordinance Code the City's municipal code.

- As a measure to protect ground water, all water wells and/or septic systems that exist or have been abandoned within the project area should be properly destroyed by an appropriately licensed contractor.

- Should any underground storage tank(s) be found during the project, the applicant shall apply for and secure an Underground Storage Tank Removal Permit from the Fresno County Department of Public Health, Environmental Health Division. Contact the Fresno County Hazmat Compliance Program at (559) 600-3271 for more information.

The following comments pertain to the demolition of any existing structure(s):

- Should the structure(s) have an active rodent or insect infestation, the infestation should be abated prior to demolition of the structure(s) in order to prevent the spread of vectors to adjacent properties.

- In the process of demolishing the existing structure(s), the contractor may encounter asbestos containing construction materials and materials coated with lead-based paints.

- If asbestos containing materials are encountered, contact the San Joaquin Valley Air Pollution Control District at (559) 230-6000 for more information.

- If the structure(s) were constructed prior to 1979 or if lead-based paint is suspected to have been used in these structures, then prior to demolition work the contractor should contact the following agencies for current regulations and requirements:

  - California Department of Public Health, Childhood Lead Poisoning Prevention Branch, at (510) 620-5600.

  - United States Environmental Protection Agency, Region 9, at (415) 947-8000.

  - State of California, Industrial Relations Department, Division of Occupational Safety and Health, Consultation Service (CAL-OSHA) at (559) 454-5302.

REVIEWED BY:



Kevin Tsuda, R.E.H.S.
Environmental Health Specialist II (559) 600-33271

KT

cc: Deep Sidhu- Environmental Health Division (CT. 55.25)
Brandon De Young- Applicant (cbd@deyoungproperties.com)

## Joyce Roach

**From:** Schreihans, Kaylie@DOT <Kaylie.Schreihans@dot.ca.gov>
**Sent:** Thursday, October 10, 2024 11:23 AM
**To:** Marissa Jensen
**Cc:** Joyce Roach; Padilla, Dave@DOT
**Subject:** [External] Comments TM6482, R2024-006, PDP2024-002, and RO311 TIA

Good afternoon,

Thank you for the opportunity to review TM6482, R2024-006, PDP2024-002, and RO311 and the associated TIA. We concur with the estimated trip generation and VMT analysis. Due to the trip distribution provided in the TIA and the distance of the project to the nearby State Routes, it is projected that the proposed project will have a minimal impact on the State Highway System.

Future expansion phases of the project should be sent to Caltrans for review.

Thank you,

***Kaylie Schreihans***
Transportation Planner
California Department of Transportation
Office of Regional and Community Planning,
Local Development Review
Caltrans District 6
Phone: (559) 383-5944
1352 W. Olive Avenue
Fresno, CA 93778-2616

2907 S. Maple Avenue
Fresno, California 93725-2208
Telephone: (559) 233-7161
Fax: (559) 233-8227

CONVEYANCE. COMMITMENT. CUSTOMER SERVICE.

October 2, 2024

Marissa Jensen
City of Clovis
Department of Planning and Development Services
1033 Fifth Street
Clovis, CA 93612

RE: Tentative Tract Map 6482
S/W Behymer and Minnewawa avenues

Dear Ms. Jensen:

The Fresno Irrigation District (FID) has reviewed Tentative Tract Map 6482 for which the applicant request to approval a tentative tract map to subdivide an existing parcel into 266 lot single family residential development parcels, APN: 556-010-28 and 29. This request is being processed concurrently with R2024-006, PDP2024-002, and RO311 FID has the following comments:

1. FID previously reviewed and commented on the subject property on November 8, 2023, as Site Plan Review 2023-045. Those comments and conditions still apply, and a copy has been attached for your reference.

**Additional Comments**

1. FID does not approve of the proposed tentative map until its requirements/conditions are met per requirements placed on Development Review Committee Application DRC2023-045. The tract map shall be revised to reference/show all FID acceptable proposed easements and pipeline alignments.

Thank you for submitting this for our review. We appreciate the opportunity to review and comment on the subject documents for the proposed project. If you have any questions, please feel free to contact Jeremy Landrith at (559) 233-7161 extension 7407 or jlandrith@fresnoirrigation.com.

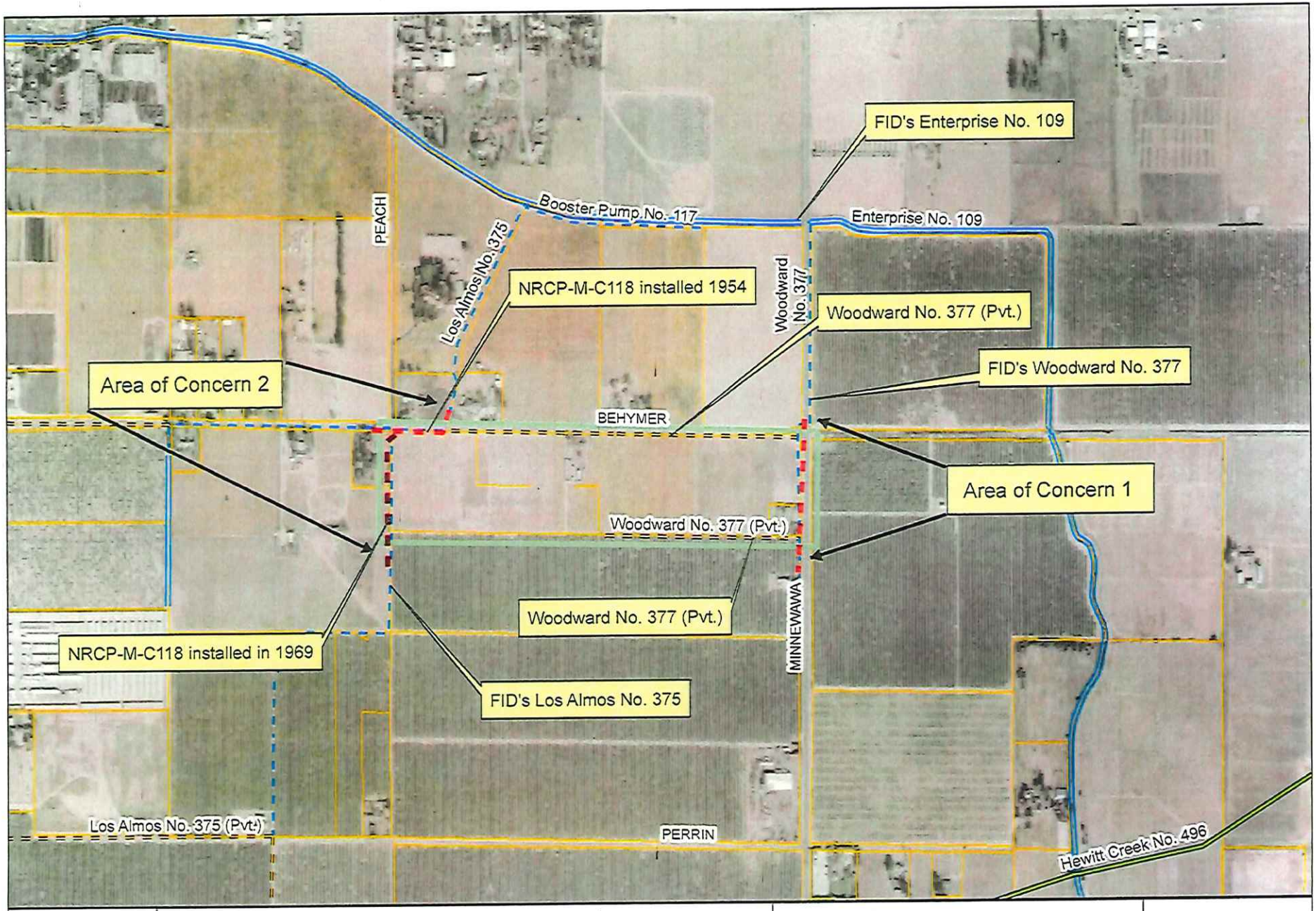
Sincerely,

Laurence Kimura, P.E.
Chief Engineer

Attachment

G:\Agencies\Clovis\Tract Map\TM6482\TM6482 - FID Comment.doc

BOARD OF DIRECTORS President RYAN JACOBSEN Vice-President JERRY PRIETO, JR. CHRISTOPHER WOO
GEORGE PORTER GREGORY BEBERIAN General Manager BILL STRETCH




FRESNO IRRIGATION DISTRICT

Legend

FID Canal
Private Canal
Abandoned Canal
FID Pipeline
Private Pipeline
Abandoned Pipeline
Stream Group
Other-Creek\River
Other-Pipeline
FID Boundary
Railroad
Streets & Hwys
Parcel
FMFCD Acquired Basins
FMFCD Proposed Basins

This map was produced by the Fresno Irrigation District and is provided for reference and informational purposes only and is not intended to show map scale accuracy or all inclusive map features, nor for legal purposes. FID makes no statements regarding the accuracy of this map as the features shown are in their approximate location. Please contact the FID Engineering Dept. at (559) 233-7161 for further information on FID facilities.

Path: G:\Fidgis\20230727 FID Master.mxd
Spatial Reference
Name: NAD 1983 StatePlane California IV FIPS 0404

0 400 800
Feet
1 inch = 799.76 feet

2907 S. Maple Avenue
Fresno, California 93725-2208
Telephone: (559) 233-7161
Fax: (559) 233-8227

CONVEYANCE. COMMITMENT. CUSTOMER SERVICE.

November 8, 2023

Lily Cha-Haydostian
City of Clovis
Planning Division
1033 Fifth Street
Clovis, CA 93612

RE: Development Review Committee Application No. DRC2023-045
S/W Behymer and Minnewawa avenues

Dear Ms. Cha-Haydostian:

The Fresno Irrigation District (FID) has reviewed Development Review Committee Application No. DRC2023-045 for which the applicant proposes pre-zoning the property to R-1 PRD and submitting a Tentative Tract Map for 257-unit single-family residential development, APNs: 556-010-28 and 29. FID has the following comments and conditions are as follows:

**Summary of Requirements:**

- FID Board Approval.
- Execute Pipeline Replacement Agreement.
- Replace existing 20" and 21" NRCP-M-C118 pipeline with 24" ASTM C-361 RGRCP (with MacWrap).
- Existing Encroachments removed and/or relocated, if any
- Review and Approval of all Plans
- Execute additional Agreement(s), if necessary
- Project Fees
- No Encroachments (i.e. trees, monuments, fences, PUE, etc.)

**Area of Concern 1**

1. FID's Woodward No. 377 Pipeline runs southwesterly, crosses Minnewawa Avenue approximately 60 feet northeast of the subject property, crosses Behymer Avenue approximately 30 feet north of the subject property, and traverses the east side of the subject property, as shown on the attached FID exhibit map, in a and will be impacted by the future development. Records indicate FID owns a 15 feet wide easement Recorded October 5, 1954, as Document No. 62198, in Book 3503, on Page 546, Official Records of Fresno County, and modified by Agreement Recorded October 19, 1954, as Document No. 64876, in Book 3508, on Page 506, Official Records of Fresno County. Should this project include any street and or utility improvements along Minnewawa Avenue, Behymer Avenue, or in the vicinity of the canal, FID requires it review and approve all plans.



BOARD OF DIRECTORS President RYAN JACOBSEN Vice-President JERRY PRIETO, JR. CHRISTOPHER WOOLF
GEORGE PORTER GREGORY BEBERIAN General Manager BILL STRETCH

2. The attached plans for the Woodward indicate the pipeline was installed in 1954 (47 years old) as 21-inch inside diameter Non-Reinforced Concrete Pipe with Mortar Joints (NRCP-M-C118). NRCP-M-C118 is a non-reinforced pipe that is easily damaged, extremely prone to leakage, and does not meet FID's minimum standards for developed (residential, industrial, commercial) parcels or urban areas.

3. FID requires the applicant replace pipe across the subject property and roadways, with a 24-inch inside diameter ASTM C-361 Rubber Gasket Reinforced Concrete Pipe (RGRCP) in accordance with FID standards and that the Developer enter into an agreement with FID for that purpose.

4. The applicant shall grant FID an exclusive pipeline easement. The width of the easement depends on several factors including pipe size, alignment, depth, etc. The applicant can expect the easement to be a minimum of 20 feet wide.

5. In recent years, the most significant issue with pipelines has been caused by tree root intrusion into pipe joints. The roots enter through the rubber gasketed joint, thus creating a non-water tight joint causing leaks. If the roots continue to grow, the roots will eventually clog the pipe and reduce the flow capacity of the pipeline. This problem causes disruption to FID's customers and increases the risk of flooding in upstream open channel sections. Subsequent pipeline repairs can be very disruptive to public infrastructure, as well as to FID's operations. The leaking pipelines and pipeline repairs also increase the liability of all parties involved. FID may require external wrap be installed at all pipeline joints within the subject property or any areas where root intrusion may be a future concern based on the proposed improvement at the time of review. This method involves using mastic material that can be externally applied to pipe joints to provide a permanent seal against root intrusion. The product that has been approved is known as MacWrap from Mar Mac. FID is open to other products, but they would need to be reviewed and approved by FID.

6. FID does not allow FID owned property, pipelines, and/or easements to be in backyards, in common use with public utility and/or utility easements, and road right-of-ways, but will in certain instances allow for its property to be in common use with landscape easements if the City of Clovis enters into the appropriate agreement.

7. FID requires all exposed facilities (standpipes, air vents, covers, etc.) within the subject property or directly adjacent to the subject property must be adapted with additional features in order to transition from a rural setting to an urban setting, to mitigate for the effects of new development and increased population, and provide for public safety within FID's property/easement and the development.

**Area of Concern 2**

1. FID's Los Almos No. 375 Pipeline runs southwesterly, crosses Behymer Avenue approximately 30 feet north of the subject property, bifurcates at Peach Avenue alignment, and continues southerly and westerly, as shown on the attached FID exhibit map, and will be impacted by the future development. FID records indicate a 30 feet wide easement Recorded November 6, 1969, as Document No. 77400, in Book 5735, on Page 463, Official Records of Fresno County. Should this project include any street and

or utility improvements along Behymer Avenue, Peach Avenue, or in the vicinity of the pipeline, FID requires it review and approve all plans.

2. The attached plans for the Los Almos indicate the pipeline was installed in 1954 (69 years old) as 20-inch inside diameter Non-Reinforced Concrete Pipe with Mortar Joints (NRCP-M-C118) and a portion was installed in 1969 (54 years old) as 20-inch inside diameter Non-Reinforced Concrete Pipe with Mortar Joints (NRCP-M-C118), see the exhibit map for limits. NRCP-M-C118 is a non-reinforced pipe that is easily damaged, extremely prone to leakage, and does not meet FID's minimum standards for developed (residential, industrial, commercial) parcels or urban areas.

3. FID requires the applicant replace pipe across the subject property and roadways, with a 24-inch inside diameter ASTM C-361 Rubber Gasket Reinforced Concrete Pipe (RGRCP) in accordance with FID standards and that the Developer enter into an agreement with FID for that purpose.

4. The applicant shall grant FID an exclusive pipeline easement. The width of the easement depends on several factors including pipe size, alignment, depth, etc. The applicant can expect the easement to be a minimum of 20 feet wide.

5. In recent years, the most significant issue with pipelines has been caused by tree root intrusion into pipe joints. The roots enter through the rubber gasketed joint, thus creating a non-water tight joint causing leaks. If the roots continue to grow, the roots will eventually clog the pipe and reduce the flow capacity of the pipeline. This problem causes disruption to FID's customers and increases the risk of flooding in upstream open channel sections. Subsequent pipeline repairs can be very disruptive to public infrastructure, as well as to FID's operations. The leaking pipelines and pipeline repairs also increase the liability of all parties involved. FID may require external wrap be installed at all pipeline joints within the subject property or any areas where root intrusion may be a future concern based on the proposed improvement at the time of review. This method involves using mastic material that can be externally applied to pipe joints to provide a permanent seal against root intrusion. The product that has been approved is known as MacWrap from Mar Mac. FID is open to other products, but they would need to be reviewed and approved by FID.

6. FID does not allow FID owned property, pipelines, and/or easements to be in backyards, in common use with public utility and/or utility easements, and road right-of-ways, but will in certain instances allow for its property to be in common use with landscape easements if the City of Clovis enters into the appropriate agreement.

7. FID requires all exposed facilities (standpipes, air vents, covers, etc.) within the subject property or directly adjacent to the subject property must be adapted with additional features in order to transition from a rural setting to an urban setting, to mitigate for the effects of new development and increased population, and provide for public safety within FID's property/easement and the development.

**General Comments**

1. FID requires the applicant and or the applicant's engineer contact FID at their earliest convenience to discuss specific requirements.

2. FID requires its easements be shown on all maps/plans with proper recording information, and that FID be made a party to signing the final map.

3. FID does not allow FID owned property or easements to be in common use with public utility easements but will in certain instances allow for its property to be in common use with landscape easements and trails if the City of Clovis enters into the appropriate agreement.

4. FID requires the applicant to submit for FID's approval a grading and drainage plan which shows that the proposed development will not endanger the structural integrity of the Canal, or result in drainage patterns that could adversely affect FID.

5. FID requires its review and approval of all improvement plans which affect its property/easements and canal/pipeline facilities including but not limited to Sewer, Water, Fresno Metropolitan Flood Control District (FMFCD), Street, Landscaping, Dry Utilities, and all other utilities.

6. Footings of retaining walls shall not encroach onto FID property/easement areas.

7. FID requires its review and approval of all Private and Public facilities that encroach into FID's property/easement. If FID allows the encroachment, the Public or Private party will be required to enter into the appropriate agreement which will be determined by FID.

8. For informational purposes, FID's Enterprise No. 109 runs southerly along the northwesterly, crosses Behymer approximately 1,600 feet east of the subject property, and crosses Minnewawa Avenue approximately 1,300 feet northeast of the subject property, as shown on the attached FID exhibit map. Should this project include any street and/or utility improvements along Minnewawa Avenue, Behymer Avenue, or in the vicinity of this Canal, FID requires it review and approve all plans.

9. For informational purposes, a privately owned facility known as Woodward No. 377 traverses the northern and southern portions of the subject property, as shown on the attached FID exhibit map. FID does not own, operate or maintain this private facility. FID's records indicate this is an active pipeline and will need to be treated as such.

10. FID is concerned that the proposed development may negatively impact local groundwater supplies. The area was historically agricultural land, and a significant portion of its water supply was imported surface water, supplemented by groundwater pumping. Under current circumstances, the project area is experiencing a modest but continuing groundwater overdraft. Should the proposed development result in a conversion from imported surface water to groundwater, this deficit will increase. FID recommends the City of Clovis require the proposed development to balance anticipated groundwater use with sufficient recharge of imported surface water in order to preclude increasing the area's existing groundwater overdraft problem.

11. California enacted landmark legislation in 2014 known as the Sustainable Groundwater Management Act (SGMA). The act requires the formation of local groundwater sustainability agencies (GSAs) that must assess conditions in their local water basins and adopt locally based management plans. FID and the City of Clovis are members of the North Kings Groundwater Sustainability Agency which will manage the groundwater basin within the FID service area. This area is completely reliant on groundwater pumping and SGMA will impact all users of groundwater and those who rely on it. The City of Clovis should consider the impacts of the development on the City's ability to comply with requirements of SGMA.

12. As with most developer projects, there will be considerable time and effort required of FID's staff to plan, coordinate, engineer, review plans, prepare agreements, and inspect the project. FID's cost for the associated plan review will vary and will be determined at the time of the plan review.

13. The above comments are not to be construed as the only requests FID will have regarding this project. FID will make additional comments and requests as necessary as the project progresses.

Thank you for submitting this for our review. We appreciate the opportunity to review and comment on the subject documents for the proposed project. If you have any questions, please feel free to contact Jeremy Landrith at (559) 233-7161 extension 7407 or jlandrith@fresnoirrigation.com.

Sincerely,

Laurence Kimura, P.E.
Chief Engineer

Attachment

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

October 11, 2024

Marissa Jensen
City of Clovis
Planning and Development Services
1033 Fifth St
Clovis, CA 93612

**Project: TM6482, R2024-006, PDP2024-002, RO311 – De Young Properties**

**District CEQA Reference No: 20241042**

Dear Ms. Jensen,

The San Joaquin Valley Air Pollution Control District (District) has reviewed the Planning Application Request (PA) from the City of Clovis (City) for the projects mentioned above. Per the PA, the project consists of a 266-lot single-family residential development (Project). The Project is located on the SEC of N. Peach and E. Behymer Avenue, in Clovis, CA.

The District offers the following comments at this time regarding the Project:

## 1) Project Related Emissions

At the federal level under the National Ambient Air Quality Standards (NAAQS), the District is designated as extreme nonattainment for the 8-hour ozone standards and serious nonattainment for the particulate matter less than 2.5 microns in size (PM2.5) standards. At the state level under California Ambient Air Quality Standards (CAAQS), the District is designated as nonattainment for the 8-hour ozone, PM10, and PM2.5 standards.

The District's initial review of the Project concludes that emissions resulting from construction and/or operation of the Project may exceed any of the following significance thresholds as identified in the District's Guidance for Assessing and Mitigating Air Quality Impacts: https://ww2.valleyair.org/media/g4nl3p0g/gamaqi.pdf. The District recommends that a more detailed preliminary review of the Project be conducted for the Project's construction and operational emissions.

Samir Sheikh
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
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Bakersfield, CA 93308-9725
Tel: (661) 392-5500 FAX: (661) 392-5585

www.valleyair.org www.healthyairliving.com



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### 1a) Construction Emissions

The District recommends, to reduce impacts from construction-related diesel exhaust emissions, the Project should utilize the cleanest available off-road construction equipment.

### 1b) Operational Emissions

Operational (ongoing) air emissions from mobile sources and stationary sources should be analyzed separately. For reference, the District's significance thresholds are identified in the District's Guidance for Assessing and Mitigating Air Quality Impacts: https://ww2.valleyair.org/media/g4nl3p0g/gamaqi.pdf.

*Recommended Mitigation Measure*: At a minimum, project related impacts on air quality should be reduced to levels below the District's significance thresholds through incorporation of design elements such as the use of cleaner Heavy Heavy-Duty (HHD) trucks and vehicles, measures that reduce Vehicle Miles Traveled (VMTs), and measures that increase energy efficiency. More information on transportation mitigation measures can be found at: https://ww2.valleyair.org/media/ob0pweru/clean-air-measures.pdf

## 2) Health Risk Screening/Assessment

The City should evaluate the risk associated with the Project for sensitive receptors (residences, businesses, hospitals, day-care facilities, health care facilities, etc.) in the area and mitigate any potentially significant risk to help limit exposure of sensitive receptors to emissions.

To determine potential health impacts on surrounding receptors (residences, businesses, hospitals, day-care facilities, health care facilities, etc.) a Prioritization and/or a Health Risk Assessment (HRA) should be performed for the Project. These health risk determinations should quantify and characterize potential Toxic Air Contaminants (TACs) identified by the Office of Environmental Health Hazard Assessment/California Air Resources Board (OEHHA/CARB) that pose a present or potential hazard to human health.

Health risk analyses should include all potential air emissions from the project, which include emissions from construction of the project, including multi-year construction, as well as ongoing operational activities of the project. Note, two common sources of TACs can be attributed to diesel exhaust emitted from heavy-duty off-road earth moving equipment during construction, and from ongoing operation of heavy-duty on-road trucks.

Prioritization (Screening Health Risk Assessment):
A "Prioritization" is the recommended method for a conservative screening-level health risk assessment. The Prioritization should be performed using the California Air Pollution Control Officers Association's (CAPCOA) methodology. Please contact the District for assistance with performing a Prioritization analysis.

The District recommends that a more refined analysis, in the form of an HRA, be performed for any project resulting in a Prioritization score of 10 or greater. This is because the prioritization results are a conservative health risk representation, while the detailed HRA provides a more accurate health risk evaluation.

Health Risk Assessment:
Prior to performing an HRA, it is strongly recommended that land use agencies/ project proponents develop and submit for District review a health risk modeling protocol that outlines the sources and methodologies that will be used to perform the HRA.

A development project would be considered to have a potentially significant health risk if the HRA demonstrates that the health impacts would exceed the District's established risk thresholds, which can be found here: https://ww2.valleyair.org/permitting/ceqa/.

A project with a significant health risk would trigger all feasible mitigation measures. The District strongly recommends that development projects that result in a significant health risk not be approved by the land use agency.

The District is available to review HRA protocols and analyses. For HRA submittals please provide the following information electronically to the District for review:

- HRA (AERMOD) modeling files
- HARP2 files
- Summary of emissions source locations, emissions rates, and emission factor calculations and methodologies.

For assistance, please contact the District's Technical Services Department by:

- E-Mailing inquiries to: hramodeler@valleyair.org
- Calling (559) 230-5900

*Recommended Measure*: Development projects resulting in TAC emissions should be located an adequate distance from residential areas and other sensitive receptors to prevent the creation of a significant health risk in accordance to CARB's Air Quality and Land Use Handbook: A Community Health Perspective located at https://ww2.arb.ca.gov/our-work/programs/resource-center/strategy-development/land-use-resources.

## 3) Ambient Air Quality Analysis

An Ambient Air Quality Analysis (AAQA) uses air dispersion modeling to determine if emissions increases from a project will cause or contribute to a violation of State or National Ambient Air Quality Standards. The District recommends an AAQA be performed for the Project if emissions exceed 100 pounds per day of any pollutant.

An AAQA uses air dispersion modeling to determine if emission increase from a project will cause or contribute to a violation of State or National Ambien Air Quality Standards. An acceptable analysis would include emissions from both project-specific permitted and non-permitted equipment and activities. The District recommends consultation with District staff to determine the appropriate model and input data to use in the analysis.

Specific information for assessing significance, including screening tools and modeling guidance, is available online at the District's website: https://ww2.valleyair.org/permitting/ceqa/.

## 4) Voluntary Emission Reduction Agreement

Criteria pollutant emissions may result in emissions exceeding the District's significance thresholds, potentially resulting in a significant impact on air quality. When a project is expected to have a significant impact, the District recommends the environmental review also include a discussion on the feasibility of implementing a Voluntary Emission Reduction Agreement (VERA) for this Project.

A VERA is a mitigation measure by which the project proponent provides pound-for-pound mitigation of emissions increases through a process that develops, funds, and implements emission reduction projects, with the District serving a role of administrator of the emissions reduction projects and verifier of the successful mitigation effort. To implement a VERA, the project proponent and the District enter into a contractual agreement in which the project proponent agrees to mitigate project specific emissions by providing funds for the District's incentives programs. The funds are disbursed by the District in the form of grants for projects that achieve emission reductions. Thus, project-related impacts on air quality can be mitigated. Types of emission reduction projects that have been funded in the past include electrification of stationary internal combustion engines (such as agricultural irrigation pumps), replacing old heavy-duty trucks with new, cleaner, more efficient heavy-duty trucks, and replacement of agricultural equipment with the latest generation technologies.

In implementing a VERA, the District verifies the actual emission reductions that have been achieved as a result of completed grant contracts, monitors the emission reduction projects, and ensures the enforceability of achieved reductions. After the project is mitigated, the District certifies to the Lead Agency that the mitigation is

completed, providing the Lead Agency with an enforceable mitigation measure demonstrating that project-related emissions have been mitigated. To assist the Lead Agency and project proponent in ensuring that the environmental document is compliant with CEQA, the District recommends the environmental document includes an assessment of the feasibility of implementing a VERA.

**5) Vegetative Barriers and Urban Greening**

There are residential units located near the Project. The District suggests the City consider the feasibility of incorporating vegetative barriers and urban greening as a measure to further reduce air pollution exposure on sensitive receptors (e.g., residential units).

While various emission control techniques and programs exist to reduce air quality emissions from mobile and stationary sources, vegetative barriers have been shown to be an additional measure to potentially reduce a population's exposure to air pollution through the interception of airborne particles and the update of gaseous pollutants. Examples of vegetative barriers include, but are not limited to the following: trees, bushes, shrubs, or a mix of these. Generally, a higher and thicker vegetative barrier with full coverage will result in greater reductions in downwind pollutant concentrations. In the same manner, urban greening is also a way to help improve air quality and public health in addition to enhancing the overall beautification of a community with drought tolerant, low-maintenance greenery.

**6) Clean Lawn and Garden Equipment in the Community**

Since the Project consists of residential development, gas-powered residential lawn and garden equipment have the potential to result in an increase of NOx and PM2.5 emissions. Utilizing electric lawn care equipment can provide residents with immediate economic, environmental, and health benefits. The District recommends the Project proponent consider the District's Clean Green Yard Machines (CGYM) program which provides incentive funding for replacement of existing gas powered lawn and garden equipment. More information on the District CGYM program and funding can be found at: https://ww2.valleyair.org/grants/clean-green-yard-machines-residential/

**7) On-Site Solar Deployment**

It is the policy of the State of California that renewable energy resources and zero-carbon resources supply 100% of retail sales of electricity to California end-use customers by December 31, 2045. While various emission control techniques and programs exist to reduce air quality emissions from mobile and stationary sources, the production of solar energy is contributing to improving air quality and public health. The District suggests that the City consider incorporating solar power systems as an emission reduction strategy for the Project.

## 8) District Rules and Regulations

The District issues permits for many types of air pollution sources, and regulates some activities that do not require permits. A project subject to District rules and regulations would reduce its impacts on air quality through compliance with the District's regulatory framework. In general, a regulation is a collection of individual rules, each of which deals with a specific topic. As an example, Regulation II (Permits) includes District Rule 2010 (Permits Required), Rule 2201 (New and Modified Stationary Source Review), Rule 2520 (Federally Mandated Operating Permits), and several other rules pertaining to District permitting requirements and processes.

The list of rules below is neither exhaustive nor exclusive. Current District rules can be found online at: https://ww2.valleyair.org/rules-and-planning/current-district-rules-and-regulations. To identify other District rules or regulations that apply to future projects, or to obtain information about District permit requirements, the project proponents are strongly encouraged to contact the District's Small Business Assistance (SBA) Office at (559) 230-5888.

### 8a) District Rules 2010 and 2201 - Air Quality Permitting for Stationary Sources

Stationary Source emissions include any building, structure, facility, or installation which emits or may emit any affected pollutant directly or as a fugitive emission. District Rule 2010 (Permits Required) requires operators of emission sources to obtain an Authority to Construct (ATC) and Permit to Operate (PTO) from the District. District Rule 2201 (New and Modified Stationary Source Review) requires that new and modified stationary sources of emissions mitigate their emissions using Best Available Control Technology (BACT).

This Project may be subject to District Rule 2010 (Permits Required) and Rule 2201 (New and Modified Stationary Source Review) and may require District permits. Prior to construction, the Project proponent should submit to the District an application for an ATC. For further information or assistance, the project proponent may contact the District's SBA Office at (559) 230-5888.

### 8b) District Rule 9510 - Indirect Source Review (ISR)

The Project is subject to District Rule 9510 because it will receive a project-level discretionary approval from a public agency and will equal or exceed 50 residential units.

The purpose of District Rule 9510 is to reduce the growth in both NOx and PM emissions associated with development and transportation projects from mobile

and area sources; specifically, the emissions associated with the construction and subsequent operation of development projects. The ISR Rule requires developers to mitigate their NOx and PM emissions by incorporating clean air design elements into their projects. Should the proposed development project clean air design elements be insufficient to meet the required emission reductions, developers must pay a fee that ultimately funds incentive projects to achieve off-site emissions reductions.

Per Section 5.0 of the ISR Rule, an Air Impact Assessment (AIA) application is required to be submitted no later than applying for project-level approval from a public agency. As of the date of this letter, the District has not received an AIA application for this Project. Please inform the project proponent to immediately submit an AIA application to the District to comply with District Rule 9510 so that proper mitigation and clean air design under ISR can be incorporated into the Project's design. One AIA application should be submitted for the entire Project.

Information about how to comply with District Rule 9510 can be found online at: https://ww2.valleyair.org/permitting/indirect-source-review-rule-overview

The AIA application form can be found online at: https://ww2.valleyair.org/permitting/indirect-source-review-rule-overview/forms-and-applications/

District staff is available to provide assistance and can be reached by phone at (559) 230-5900 or by email at ISR@valleyair.org.

**8c) District Rule 4002 (National Emissions Standards for Hazardous Air Pollutants)**

In the event an existing building will be renovated, partially demolished or removed, the Project may be subject to District Rule 4002. This rule requires a thorough inspection for asbestos to be conducted before any regulated facility is demolished or renovated. Information on how to comply with District Rule 4002 can be found online at: https://ww2.valleyair.org/compliance/demolition-renovation/

**8d) District Rule 4601 (Architectural Coatings)**

The Project may be subject to District Rule 4601 since it is expected to utilize architectural coatings. Architectural coatings are paints, varnishes, sealers, or stains that are applied to structures, portable buildings, pavements or curbs. The purpose of this rule is to limit VOC emissions from architectural coatings. In addition, this rule specifies architectural coatings storage, cleanup and labeling requirements. Additional information on how to comply with District

Rule 4601 requirements can be found online at:
https://ww2.valleyair.org/media/tkgjeusd/rule-4601.pdf

**8e) District Regulation VIII (Fugitive PM10 Prohibitions)**

The project proponent may be required to submit a Construction Notification Form or submit and receive approval of a Dust Control Plan prior to commencing any earthmoving activities as described in Regulation VIII, specifically Rule 8021 – *Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities.*

Should the project result in at least 1-acre in size, the project proponent shall provide written notification to the District at least 48 hours prior to the project proponents intent to commence any earthmoving activities pursuant to District Rule 8021 (Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities). Also, should the project result in the disturbance of 5-acres or more, or will include moving, depositing, or relocating more than 2,500 cubic yards per day of bulk materials, the project proponent shall submit to the District a Dust Control Plan pursuant to District Rule 8021 (Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities). For additional information regarding the written notification or Dust Control Plan requirements, please contact District Compliance staff at (559) 230-5950.

The application for both the Construction Notification and Dust Control Plan can be found online at: https://ww2.valleyair.org/media/fm3jrbsq/dcp-form.docx

Information about District Regulation VIII can be found online at:
https://ww2.valleyair.org/dustcontrol

**8f) District Rule 4901 - Wood Burning Fireplaces and Heaters**

The purpose of this rule is to limit emissions of carbon monoxide and particulate matter from wood burning fireplaces, wood burning heaters, and outdoor wood burning devices. This rule establishes limitations on the installation of new wood burning fireplaces and wood burning heaters. Specifically, at elevations below 3,000 feet in areas with natural gas service, no person shall install a wood burning fireplace, low mass fireplace, masonry heater, or wood burning heater.

Information about District Rule 4901 can be found online at:
https://ww2.valleyair.org/compliance/residential-wood-smoke-reduction-program/

### 8g) Other District Rules and Regulations

The Project may also be subject to the following District rules: Rule 4102 (Nuisance) and Rule 4641 (Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations).

## 9) District Comment Letter

The District recommends that a copy of the District's comments be provided to the Project proponent.

If you have any questions or require further information, please contact Ryan Grossman by e-mail at Ryan.grossman@valleyair.org or by phone at (559) 230-6569.

Sincerely,

Tom Jordan
Director of Policy and Government Affairs



For: Mark Montelongo
Program Manager

Department of Toxic Substances Control

Yana Garcia
Secretary for
Environmental Protection

Katherine M. Butler, MPH, Director
8800 Cal Center Drive
Sacramento, California 95826-3200
dtsc.ca.gov

Gavin Newsom
Governor

**SENT VIA ELECTRONIC MAIL**

November 13, 2024

Marissa Jensen
Assistant Planner
City of Clovis
1033 Fifth Street
Clovis, CA 93612
marissaj@cityofclovis.com

RE: MITIGATED NEGATIVE DECLARATION FOR THE RO311, R2024-006, PDP2024-002, AND TM6482 DATED NOVEMBER 1, 2024, STATE CLEARINGHOUSE NUMBER 2024110044

Dear Marissa Jensen,

The Department of Toxic Substances Control (DTSC) reviewed the Mitigated Negative Declaration (MND) for the RO311, R2024-006, PDP2024-002, and TM6482 project (project). The proposed project site is approximately a 37.92-acre property designated for Medium High-Density Residential development in the City of Clovis General Plan. The applicant is proposing to zone the project site to allow for the development of a planned single-family residential development with unique development standards. The project proposes 266 single-family residences with a ±0.75-acre park, associated landscaping, and utility and pedestrian infrastructure. DTSC recommends and requests consideration of the following comments:

1. When agricultural crops and/or land uses are proposed or rezoned for residential use, a number of contaminants of concern (COCs) can be present. The Lead Agency shall identify the amounts of Pesticides and Organochlorine Pesticides (OCPs) historically used on the property. If present, OCPs

requiring further analysis are dichloro-diphenyl-trichloroethane, toxaphene, and dieldrin. Additionally, any level of arsenic present would require further analysis and sampling and must meet HHRA NOTE NUMBER 3, DTSC-SLs approved thresholds. If they are not, remedial action must take place to mitigate them below those thresholds.

Additional COCs may be found in mixing/loading/storage areas, drainage ditches, farmhouses, or any other outbuildings and should be sampled and analyzed. If smudge pots had been routinely utilized, additional sampling for Polycyclic Aromatic Hydrocarbons and/or Total Petroleum Hydrocarbons may be required.

2. DTSC recommends that all imported soil and fill material should be tested to assess any contaminants of concern meet screening levels as outlined in DTSC's Preliminary Endangerment Assessment (PEA) Guidance Manual. Additionally, DTSC advises referencing the DTSC Information Advisory Clean Imported Fill Material Fact Sheet if importing fill is necessary. To minimize the possibility of introducing contaminated soil and fill material there should be documentation of the origins of the soil or fill material and, if applicable, sampling be conducted to ensure that the imported soil and fill material are suitable for the intended land use. The soil sampling should include analysis based on the source of the fill and knowledge of the prior land use. Additional information can be found by visiting DTSC's Human and Ecological Risk Office (HERO) webpage.

DTSC appreciates the opportunity to comment on the MND for the RO311, R2024-006, PDP2024-002, and TM6482 project. Thank you for your assistance in protecting California's people and environment from the harmful effects of toxic substances. If you have any questions or would like clarification on DTSC's comments, please respond to this letter or via email for additional guidance.

Sincerely,



Tamara Purvis
Associate Environmental Planner
HWMP - Permitting Division – CEQA Unit
Department of Toxic Substances Control
Tamara.Purvis@dtsc.ca.gov

cc: (via email)

Governor's Office of Land Use and Climate Innovation
State Clearinghouse
State.Clearinghouse@opr.ca.gov

Dave Kereazis
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# DeYoung Properties
# RO311, R2024-006, PDP2024-002, and TM6482

Initial Study and Mitigated Negative Declaration

**October 2024**

**PREPARED BY:**

Marissa Jensen, MA
Assistant Planner
Planning & Development Services
(559) 324-2338
marissaj@clovisca.gov

**Attachment 10**

## INITIAL STUDY

This Initial Study was prepared pursuant to the California Environmental Quality Act (CEQA) Public Resources Code Sections 21000 *et seq.*, CEQA Guidelines Title 14, Section 15000 et seq. of the California Code of Regulations.

| | |
|---|---|
| **PROJECT TITLE:** | RO311, R2024-006, PDP2024-002, and TM6482 |
| **LEAD AGENCY NAME AND ADDRESS:** | City of Clovis<br>Planning & Development Services<br>1033 Fifth Street<br>Clovis, CA 93612 |
| **CONTACT PERSON AND PHONE NUMBER:** | Marissa Jensen, Assistant Planner<br>(559) 324-2338<br>marissaj@clovisca.gov |
| **PROJECT LOCATION:** | South of E. Behymer Avenue between N. Minnewawa Avenue and the N. Peach Avenue alignment in Clovis, CA |
| **PROJECT SPONSOR'S NAME AND ADDRESS:** | DeYoung Properties<br>677 W. Palmdon Drive Suite 208<br>Fresno, CA 93704 |
| **LAND USE DESIGNATION:** | Existing – MH (Medium High Density) |
| **ZONING DESIGNATION:** | Existing – AE-20 (Fresno County, Exclusive Agricultural)<br>Proposed – R-1-PRD (Single-Family Planned Residential Development) |
| **PROJECT DESCRIPTION** | See page 7 of this Initial Study |
| **SURROUNDING LAND USES AND SETTING:** | See pages 6 and 7 of this Initial Study |
| **REQUIRED APPROVALS:** | See page 9 of this Initial Study |
| **HAVE CALIFORNIA NATIVE AMERICAN TRIBES REQUESTED CONSULTATION? IF SO, HAS CONSULTATION BEGUN?** | Tribes did not request consultation. |

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## A. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, as indicated by the checklist and corresponding discussion in this Initial Study.

| | | |
|---|---|---|
| ☐ Aesthetics | ☒ Agriculture & Forestry Resources | ☐ Air Quality |
| ☒ Biological Resources | ☒ Cultural Resources | ☐ Energy |
| ☒ Geology & Soils | ☒ Greenhouse Gas Emissions | ☐ Hazards & Hazardous Materials |
| ☐ Hydrology & Water Quality | ☐ Land Use/Planning | ☐ Mineral Resources |
| ☒ Noise | ☐ Population/Housing | ☐ Public Services |
| ☐ Recreation | ☒ Transportation | ☒ Tribal Cultural Resources |
| ☐ Utilities & Service Systems | ☐ Wildfire | ☐ Mandatory Findings of Significance |

### Determination

On the basis of this initial evaluation:

☐ I find that the proposed Project COULD NOT have a significant effect on the environment and a NEGATIVE DECLARATION will be prepared.

☒ I find that, although the proposed Project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponents. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed Project MAY have a significant effect on the environmental, and an ENVIRONMENTAL IMPACT REPORT (EIR) will be prepared.

☐ I find that the proposed Project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environmental, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An EIR is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed Project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately analyzed in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed Project, nothing further is required.

Prepared By:

Marissa Jensen, MA, Assistant Planner
Planning & Development Services
City of Clovis

10/30/2024
Date

Approved By:

2024.10.31 08:03:33-07'00'

Renee Mathis, Director
Planning & Development Services
City of Clovis

Date

## B. PROJECT OVERVIEW

Juli Kutka of DeYoung Properties (applicant) proposes to annex (RO311) and Prezone (R2024-006) the subject property from Fresno County's AE-20 (Exclusive Agricultural, 20-acre minimum parcel size) zone district to the R-1-PRD (Single-Family Planned Residential Development) and the R-1 (Single-Family Residential) zone districts. The annexation boundary consists of ±37.92 acres, the project site is ±36.92 acres and is located south of E. Behymer Avenue, between N. Minnewawa Avenue and the N. Peach Avenue alignment in the County of Fresno, California. The Project is situated adjacent to agricultural uses designated for future residential development at varying densities. The aforementioned applications will facilitate the development of a 266-lot single-family subdivision, Tract Map 6482 (TM6482), inclusive of a Planned Development Permit (PDP2024-002) for enhanced development. The project will include site improvements (i.e., landscaping, parking, sidewalks, and utility infrastructure). The project shall be referred to throughout the document as "proposed Project" and/or "Project." Details regarding the Project and operations are described more throughout the Initial Study, beginning under Section E.

## C. PROJECT LOCATION

As shown in Figure 1, the proposed ±37.92-acre annexation boundary is situated south of E. Behymer Avenue between N. Minnewawa Avenue and the N. Peach Avenue alignment. The ±36.92-acre area proposed for development herein referred to as "Project site" encompasses the majority of the annexation area with the exception of a small ±1 acre parcel situated at the southeast corner of the boundary. The proposed development will occupy the entire parcels with Accessor's Parcel Numbers (APNs) 556-010-28 and 29. APN 556-010-12 will not be incorporated as part of the proposed development but will be annexed into the City based on the need for a logical boundary per Fresno County and LAFCo's annexation requirements.

The Project is within the City's Heritage Grove planned growth area. Heritage Grove encompasses ±2,560 acres of land bounded by Willow Avenue to the west, Sunnyside Avenue to the east, Copper Avenue to the north and the Shepherd Avenue to the south. This area has been examined programmatically in the City's current General Plan EIR. This document evaluates potential environmental impacts in detail.

## D. EXISTING SETTING

This section describes the existing conditions, surrounding conditions, as well as the General Plan land use and zoning designations.

### 1. EXISTING CONDITIONS

As shown in Figure 1 below, the Project site is primarily undeveloped with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities

### 2. SURROUNDING CONDITIONS

As referenced below in Table 1, and shown on Figure 1, the Project site situated adjacent to agricultural uses designated for future residential development at varying densities.

**Table 1: Surrounding Land Uses**

| | Land Use Designation | Existing Zoning* | Existing Land Use |
|---|---|---|---|
| **North** | Medium High Density Residential | AE-20 | Rural Residential Properties, Orchards, Undeveloped |
| **East** | Neighborhood Commercial | AE-20 | Orchards |
| **South** | Medium + Medium High Density Residential | AE-20 | Orchards |
| **West** | High Density Residential | R-3 | Rural Residential Property, Undeveloped |

*AE-20 (Exclusive Agricultural, 20-acre parcel minimum), R-3 (Multifamily High Density)

### 3. LAND USE DESIGNATION

As shown in Figure 2, the Project site has an existing General Plan Land Use designation of Medium High Density Residential. The Medium High Density Residential designation allows for single-family residential development at a density of 7.1-20.0 dwelling units per acre.

### 4. ZONING DESIGNATION

As shown in Figure 3, the Project site is currently zoned AE-20 (Exclusive Agricultural, 20-acre minimum parcel size) in the County of Fresno, however, proposes a Prezone to the Clovis R-1-PRD (Single-Family Planned Residential Development) for ±36.92 acres of the annexation area and R-1 (Single-Family Residential) Zone Districts for the remaining ±1-acre portion of the Project site. The R-1-PRD and R-1 Zone Districts are consistent with the existing Medium High Density land use designation.

## E. PROJECT DESCRIPTION

The Project site is a ±37.92-acre property designated for Medium High-Density Residential development in the City of Clovis General Plan. The applicant is proposing to Prezone the project site to allow for the development of a planned single-family residential development with unique development standards. The Project proposes 266 single-family residences with a ±0.75-acre park, associated landscaping, and utility and pedestrian infrastructure. This section describes the components of the proposed Project in more detail, including site preparations, proposed structures, and on- and off-site improvements.

### 1. PROJECT ENTITLEMENTS

The Project would include several planning entitlements, including a prezone, vesting tentative tract map, planned development permit, and residential site plan review. The prezone is to bring the zoning into consistency with the proposed general plan land use designation, the tentative tract map is required to subdivide the property in accordance with the Subdivision Map Act and City standards, the planned development permit is to evaluate the unique development standards and enhanced development features such as architecture, landscaping, parking and additional amenities, and the residential site plan review is required to memorialize the design and layout of the homes.

### 2. PROJECT CONSTRUCTION AND PHASING

The Project is anticipated to begin construction in the winter of 2025 with full buildout by winter of 2029. This schedule is an estimation only and is contingent upon entitlements, and the market, among other factors.

### 3. SITE PREPARATION

Site preparation would include the demolition of the existing home, acessory structures, and orchards. Typical grading activities would occur to ensure an adequately graded site for drainage purposes. Part of the preparation would include the removal of any other vegetation, crops, and trees necessary to accommodate the Project. Other site preparation activities would include minor excavation for the installation of utility infrastructure, for conveyance of water, sewer, stormwater, and irrigation.

### 4. PROJECT COMPONENTS

This section describes the overall components of the Project, such as the proposed buildings, landscape, vehicle and pedestrian circulation, and utilities.

**DEMOLITION**

The existing residence, fruit orchards, and accessory structures will be demolished to accommodate the development of the Project.

**SITE LAYOUT AND CIRCULATION**

The Project is proposing 266 lots, ranging from ±2,090 square feet to ±8,434 square feet, with an average of ±3,682 square feet, and a 0.75-acre neighborhood park. The Project is bound by E. Behymer Avenue to the north, N. Minnewawa Avenue to the east, and the N. Peach Avenue alignment to the west. The applicant will be required to install N. Peach Avenue and upgrade N. Minnewawa and E. Behymer Avenues to City standards. Along with improvements to the surrounding streets, the applicant is also proposing a network of internal public streets. The Project would be accessed via three (3) points of ingress/egress from E. Behymer Avenue and one (1) point of shared ingress/egress from N. Peach Avenue. The installation of pedestrian paths of travel from the N. Peach, E. Behymer, and N. Minnewawa frontages would be required as part of the Project. Per the Heritage Grove Master Plan, community corner paseos are required at the corners of N. Peach and E. Behymer Avenues and N. Minnewawa and E. Behymer Avenues.

**PARKING**

The CMC requires that residential planned residential developments provide a minimum of two (2) covered spaces plus one (1) covered or uncovered guest space for each dwelling unit. Each garage would be required to have an interior dimension of 20 feet by 20 feet for two car garages and 10 feet by 20 feet for single-car garages. The applicant is requesting a deviation from the typical parking requirement, by only proposing one (1) covered space and one (1) uncovered space for a portion of the homes. The Planned Development Permit may adjust or modify, where necessary and justifiable, all applicable development standards. The proposed parking deviation will be reviewed thoroughly as part of the Residential Site Plan Review (RSPR) process for compliance.

**LANDSCAPE**

The Project would include landscape throughout the site. Landscaped areas would generally be located along the frontage of major streets, as well as in the front yard areas of each parcel, consistent with the CMC. Landscape plans are typically provided during the City's residential RSPR process at which time the proposed landscape would be reviewed for compliance with the City's water efficient landscape regulations and guidelines. As an amenity to the Project, the applicant is providing a neighborhood park (see Figure 5 for the conceptual design).

**UTILITIES**

Utilities for the site would consist of water, sewer, electric, cable, gas, and stormwater infrastructure. Trenching and digging activities would be required for the installation of necessary pipelines typical of development. All utility plans would be required to be reviewed and approved by the appropriate agency, and/or department to ensure that installation occurs to pertinent codes and regulations. Other infrastructure would include new fire hydrants as required by the City of Clovis Fire Department.

Utilities are provided by and managed from a combination of agencies, including the Fresno Irrigation District (FID), which provides the City's water supply which is then supplied to customers by the City of Clovis, Fresno Metropolitan Flood Control District (FMFCD) which has responsibility for storm water management, and the City's public utilities department which provides for solid waste collection, and sewer collection services. Pacific Gas & Electric (PG&E) provides electricity and natural gas within the City of Clovis.

## F. REQUIRED PROJECT APPROVALS

The City of Clovis requires the following review, permits, and/or approvals for the proposed Project; however, other approvals not listed below may be required as identified throughout the entitlement process:

- Annexation
- Rezone (Prezone)
- Tentative Tract Map
- Planned Development Permit
- Residential Site Plan Review
- Grading Permit
- Building Permit
- San Joaquin Air Pollution Control District
- Fresno Metropolitan Flood Control District

## G. TECHNICAL STUDIES

The analysis of the Project throughout this Initial Study relied in part on the technical studies listed below prepared for the Project, as well as other sources, including, but not limited to, the 2014 Clovis General Plan EIR, departmental staff, California Department of Conservation, and the California Department of Toxic Control Substances.

- **Appendix A:** Air Quality and Greenhouse Gas Analysis Memorandum dated August 2024
- **Appendix B:** Biological Resources Evaluation dated June 2024
- **Appendix C:** Cultural Resource Assessment dated June 24, 2024
- **Appendix D:** Water Infrastructure Investigation dated May 28, 2024
- **Appendix E:** Transportation Impact Analysis dated October 2024
- **Appendix F:** Noise and Vibration Impact Analysis dated August 2024
- **Appendix G:** California Agricultural LESA Worksheets dated May 15, 2024

**Figure 1: Project Location and Existing Conditions**

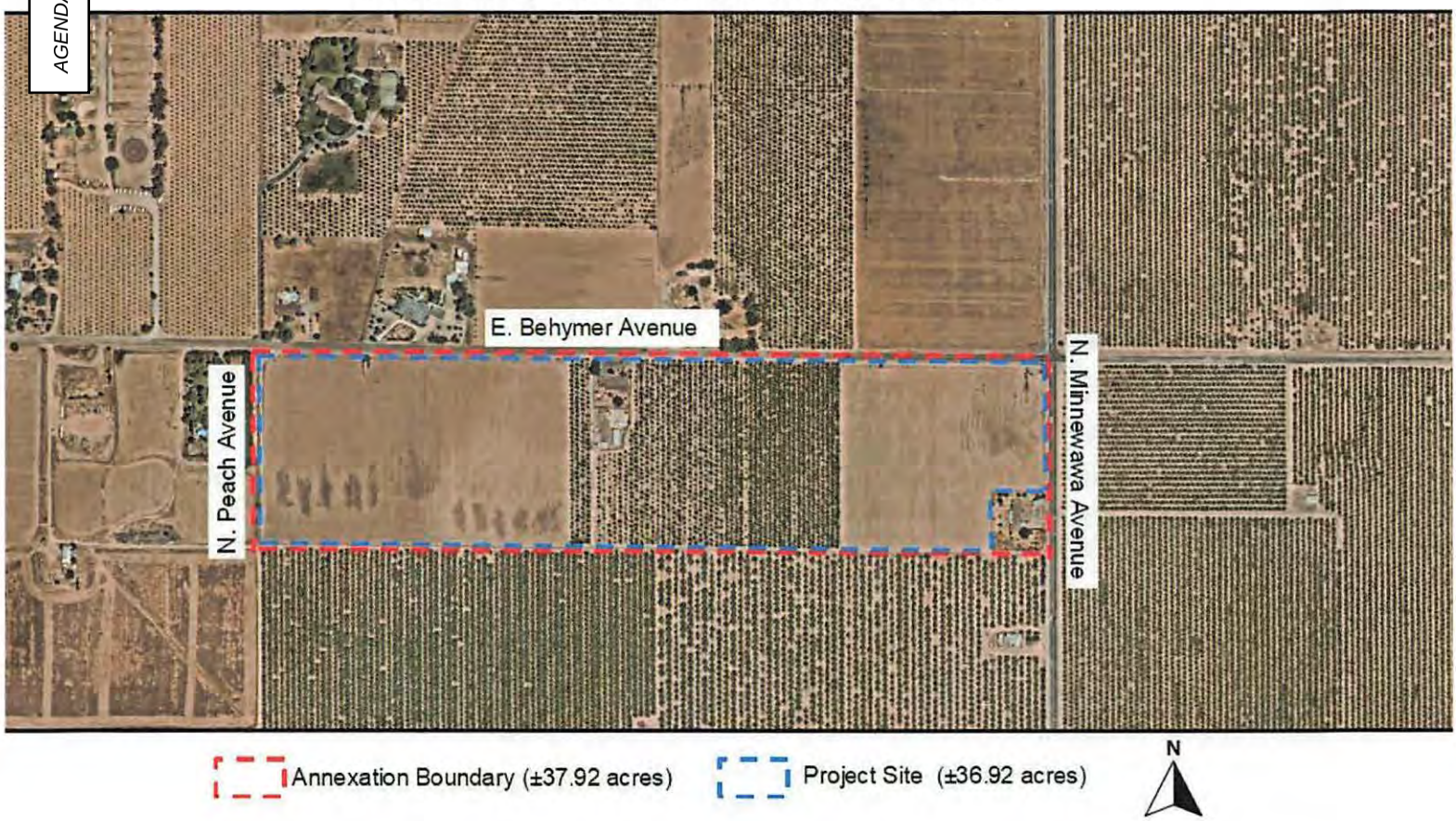
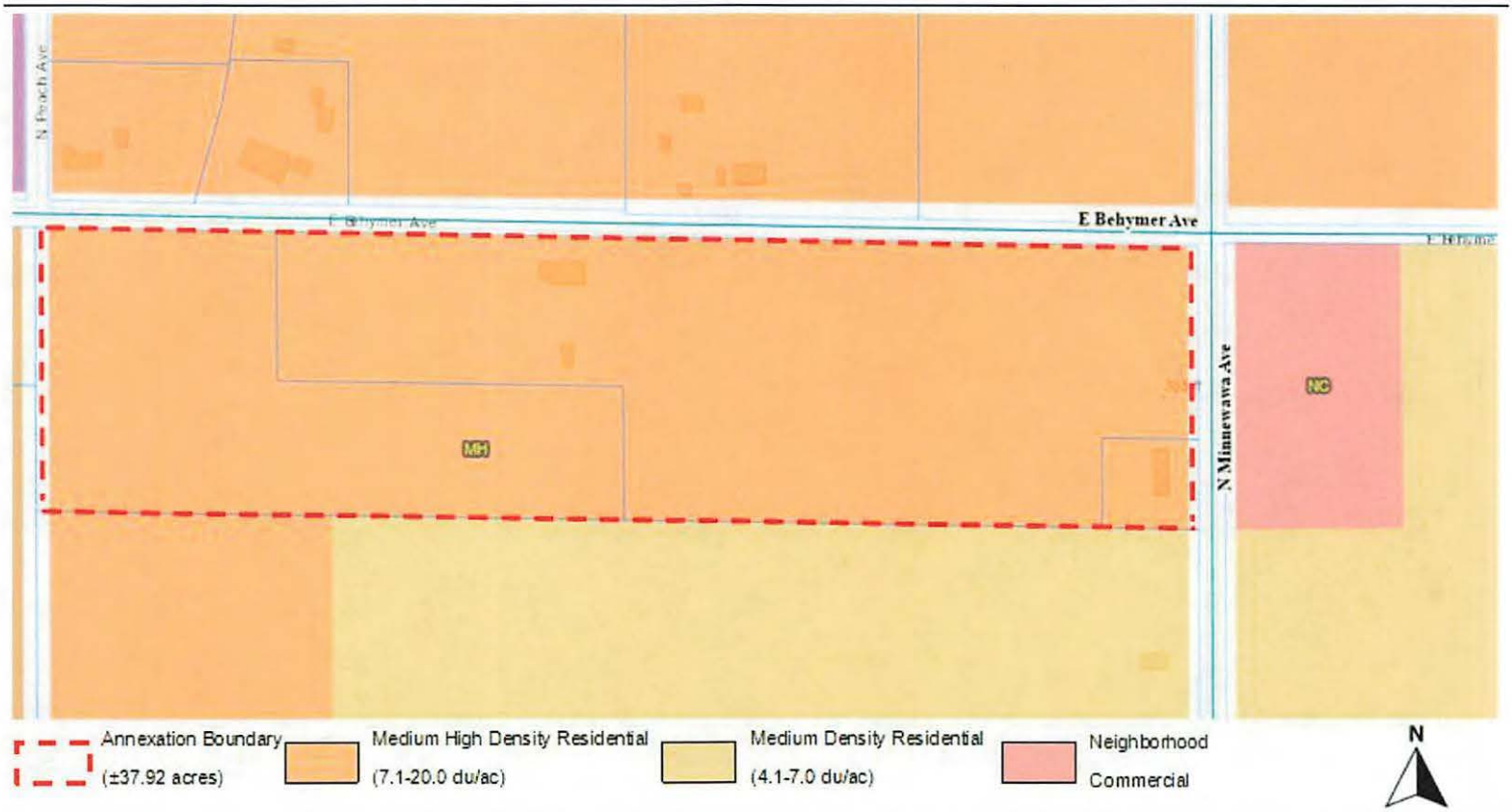


**Figure 2: General Plan Land Use Designations**



## Figure 3: Current Zoning

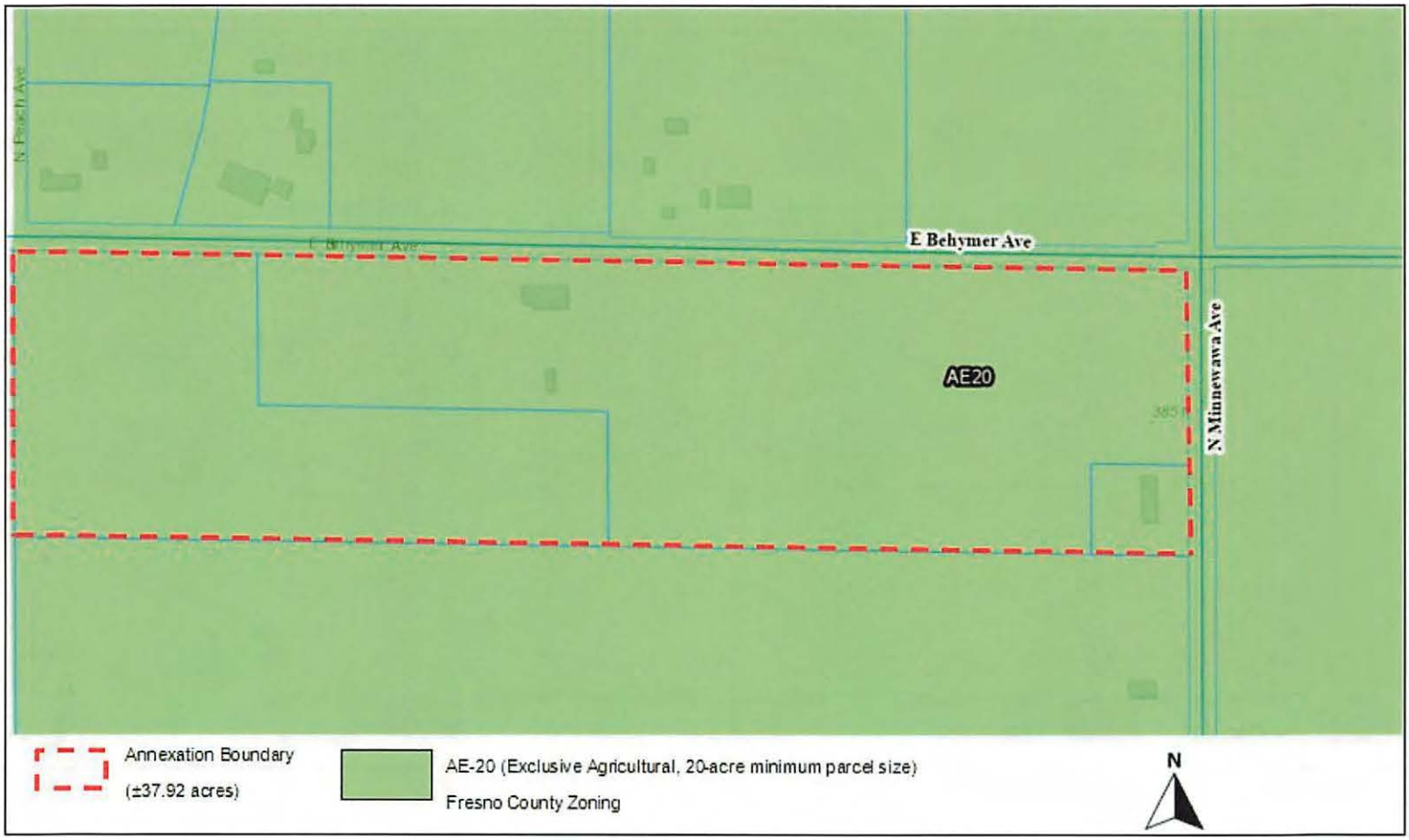


**Figure 4: Conceptual Tract Map**

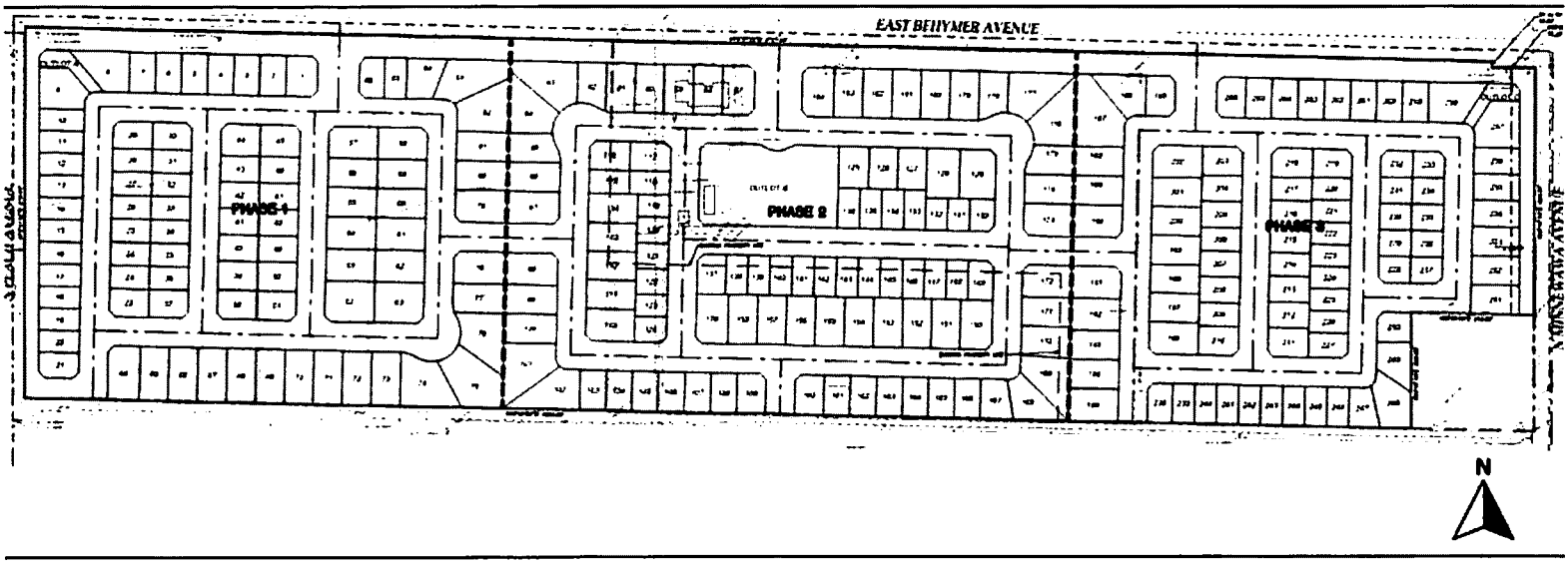


**Figure 5: Conceptual Park Layout**

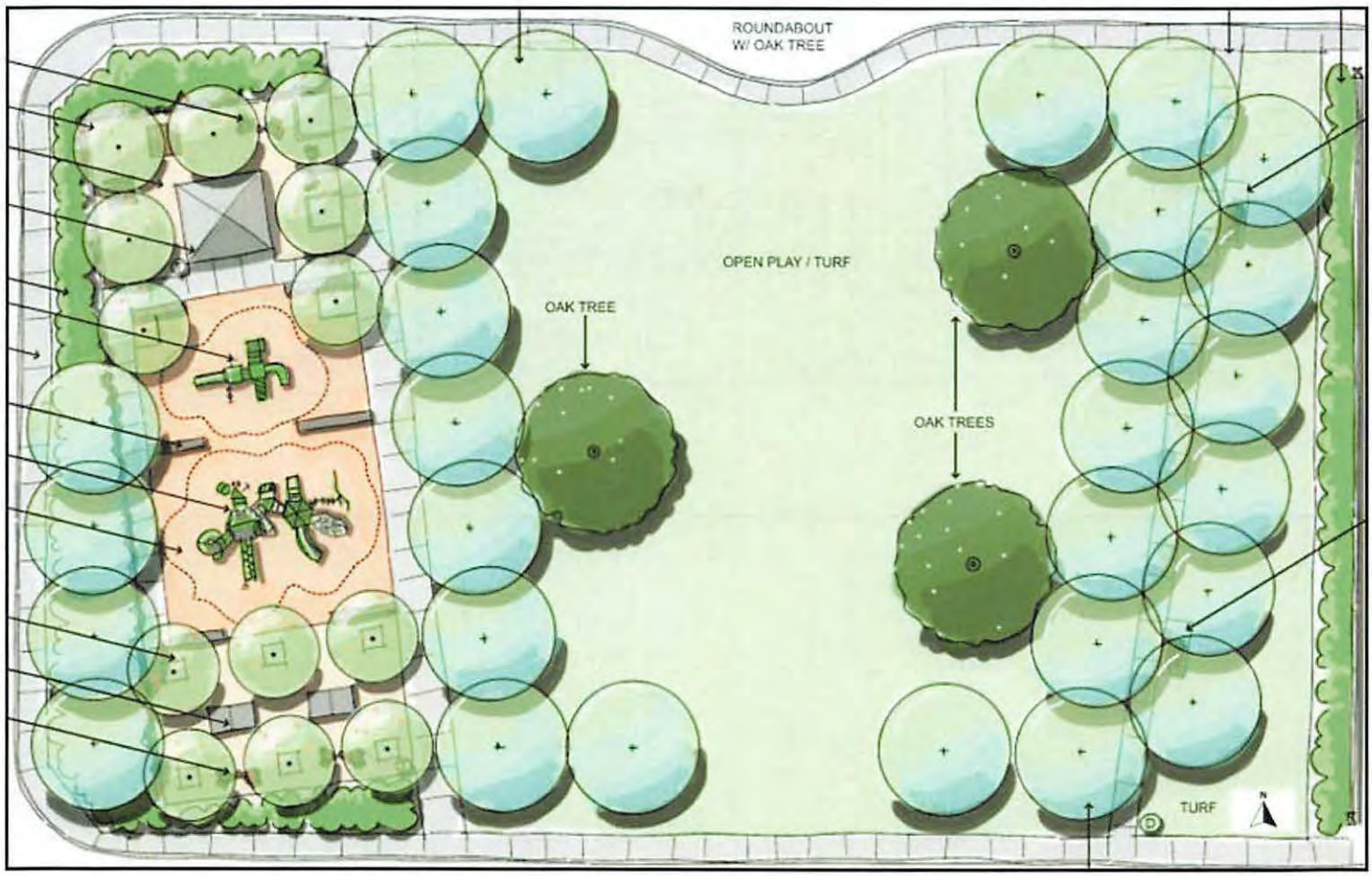


**Figure 6: Conceptual Elevations**



## H. ENVIRONMENTAL CHECKLIST

This section provides an evaluation of the potential environmental impacts of the proposed project and are based on CEQA Guidelines Appendix G. For each issue area, one of four conclusions is made:

- **No Impact**: No project-related impact to the environment would occur with project development.
- **Less Than Significant Impact:** The proposed project would not result in a substantial and adverse change in the environment. This impact level does not require mitigation measures.
- **Less Than Significant with Mitigation Incorporated:** The proposed project would result in an environmental impact or effect that is potentially significant, but the incorporation of mitigation measure(s) would reduce the project-related impact to a less than significant level.
- **Potentially Significant Impact**: The proposed project would result in an environmental impact or effect that is potentially significant, and no mitigation can be identified that would reduce the impact to a less than significant level.

### 1. AESTHETICS

| Except as provided in Public Resources Code Section 21099, would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Have a substantial effect on a scenic vista? | | | | X |
| b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway? | | | | X |
| c. Substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality? | | | X | |
| d. Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area? | | | X | |

**ENVIRONMENTAL SETTING**

The City of Clovis is located within the San Joaquin Valley. Thus, much of the City and its surrounding areas are predominately flat. As a result, on clear days, the Sierra Nevada Mountains are visible to the east depending on your location. Aside from Sierra Nevada, there are no officially designated focal points or viewsheds within the City. However, Policy 2.3, Visual Resources, of the Open Space Element of the 2014 Clovis General Plan, requires maintaining public views of open spaces, parks, and natural features and to preserve Clovis' viewshed of the surrounding foothills.

As mentioned above in the Project Description, the site is located south of E. Behymer Avenue between N. Minnewawa Avenue and the N. Peach Avenue alignment. In general, the Project site will be in the fringes of Clovis following annexation and is situated on a primarily undeveloped site with some orchards, a single-

family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities.

**DISCUSSION**

a) *Would the project have a substantial effect on a scenic vista?*

**No Impact.** As mentioned above, there are no officially designated scenic vistas or focal points in the City of Clovis. While the Sierra Nevada Mountains can be viewed on clear days the Project would allow structures to be constructed at a maximum height of 35 feet. The units will be constructed at a typical maximum height for standard single family residential zone districts. Additionally, there are no officially designated scenic vistas in the area, therefore **no impact** would occur with regards to the project having a substantial effect on a scenic vista. As a result, no mitigation measures are required.

b) *Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway?*

**No Impact.** As stated in the 2014 Clovis General Plan EIR, there are no Caltrans-designated scenic highways within the City of Clovis.[1] Further, there are no existing historical structures or rock outcroppings located on or within the immediate vicinity of the site, therefore, the Project would result in **no impact** with regards to substantially damaging scenic resources within a State scenic highway.

c) *Would the project substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?*

**Less-Than-Significant Impact.** As mentioned previously, the existing site is primarily undeveloped with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities. The Project is located within the Heritage Grove planned growth area. Although the project is proposing to convert agricultural land to residential uses, this conversion is pursuant to the 2014 General Plan. Upon completion, the project will not be consistent with the existing rural residential properties and orchards that currently exist in the surrounding area; however it will be consistent with future single-family development at Medium and Medium High Densities, per the General Plan designations.

Further, the Project would undergo the RSPR process which would ensure that the overall design and character is consistent and/or complements the surrounding areas. The RSPR process will ensure the Project complies with relevant design policies, such as in the Heritage Grove Master Plan, the CMC, and the General Plan. During the review, the height, color and materials are reviewed for consistency with these plans and guidelines. Consequently, a **less-than-significant** impact would occur with regards to substantially degrading the existing visual character of the site and its surroundings, and no mitigation measures are required.

d) *Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?*

**Less-Than-Significant Impact.** The Project consists of 266 single-family homes. As a result of the existing site being primarily agricultural, the Project would result in new sources of light and glare. Light and glare from

1 2014 Clovis General Plan EIR, June 2014, Page 5.1-1.

the Project would be typical of residential development, including but not limited to, sources such as exterior lighting for safety, light, and glare from vehicles or from light reflecting off surfaces such as windshields. Other sources of light would be the interior lighting of the units at night. These sources of light and glare are not typically associated with causing significant effects on the environment. Further, the site is surrounded by agricultural uses planned for single-family residences that will eventually result in similar sources and intensities of light and glare. Sources of future light and glare are comprised of streetlights, and light and glare from vehicles going to and from home.

Although the Project would introduce new sources of light and glare, the RSPR process would ensure that the design and placement of lighting is appropriate to minimize potential light and glare impacts to surrounding properties. Further, the Project would be required to comply with Section 9.22.050, Exterior Light and Glare, of the CMC, which requires light sources to be shielded and that lighting does not spillover to adjacent properties.

Overall, through the City's design review process and compliance with Section 9.22.050 of the CMC, the Project would result in a **less-than-significant Impact** with regard to lighting adversely affecting day or nighttime views in the area. No mitigation measures are required.

## 2. AGRICULTURE AND FORESTRY RESOURCES

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use. | | X | | |
| b. Conflict with existing zoning for agricultural use, or a Williamson Act contract? | | | | X |
| c. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220 (g)) or timberland (as defined in Public Resources Code section 4526)? | | | | X |
| d. Result in the loss of forest land or conversion of forest land to non-forest use? | | | | X |
| e. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use? | | X | | |

**ENVIRONMENTAL SETTING**

The site is located south of E. Behymer Avenue between N. Minnewawa Avenue and the N. Peach Avenue alignment. In general, the Project site will be in the fringes of Clovis following annexation and is situated on a

primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities.

**DISCUSSION**

a) *Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?*

**Less Than Significant Impact with Mitigation.** According to the California Important Farmland finder interactive map from the California Department of Conservation,[2] the Project site is considered Prime Farmland (2020 data), which is defined by the Department of Conservation as farmland with the best combination of physical and chemical features able to sustain long term agricultural production. This land has the soil quality, growing season, and moisture supply needed to produce sustained high yields. The Project would develop ±36.92 acres with 266 single-family homes. Therefore, development of the proposed Project would result in the conversion of Prime Farmland to a non-agricultural use.

The City of Clovis 2014 General Plan identifies that the 2035 buildout of the General Plan would result in significant unavoidable impacts related to conversion of Prime Farmland, Unique Farmland, and Farmland of Statewide importance. Thus, the potential impacts associated with the conversion of farmlands as described above were evaluated in conjunction with the General Plan EIR. This initial study relies on the General Plan EIR through the tiering concept (Section 15152 of the CEQA Guidelines) with regard to the analysis of potential farmland conversion impacts associated with the Project. As stated in the General Plan EIR, City policies seek to preserve the agricultural legacy of Clovis by facilitating thoughtful conversion of farmland and supporting "right to farm" and regional conservation efforts. Therefore, with the inclusion of the following Mitigation Measure, impacts in this category will be reduced to a **less than significant impact with mitigation**.

> Mitigation Measure AGR-1: The Project applicant shall prepare or fund an agricultural resource evaluation prior to project approval. The resource evaluation shall use generally accepted methodologies (such as the Land Evaluation and Site Assessment Model) to identify the potentially significant impact of the loss of agricultural land. If the loss of agricultural land is determined to be a potentially significant impact, the resource evaluation shall consider the economic viability of future agricultural use of the property. If the agricultural resource is considered significant and future agricultural use is considered economically viable, the conversion will be deemed significant. The City shall require mitigation by one of the following methods:
>
> - Mitigation at a 1:1 ration of converted to preserved acreage through a regional conservation easement, or payment of its valuation equivalent if a fee mitigation program is established. If 1:1 mitigation is determined to be economically infeasible, based upon all of the evidence, the ratio may be reduced to an economically feasible ratio or no further mitigation shall be required. This determination shall be made by the City's Director of Planning and Development Services based upon substantial evidence in the record; or
>
> - Other potential mitigation which achieves the same mitigating effect as the measures identified above, consistent with the CEQA Statutes and Guidelines. This determination shall be made by

2 Farmland Mapping, California Department of Conservation, Interactive mapping tool (https://maps.conservation.ca.gov/DLRP/CIFF/).

the City's Director of Planning and Development Services based upon substantial evidence in the record.

The Project site is not designated for farming-related activities under the 2014 General Plan as such would be consistent with the planned growth of the Heritage Grove area and as identified in the General Plan EIR the conversion of farmlands of importance cannot be mitigated. Consequently, because the Project would not result in unplanned impacts to important farmland, a **less than significant impact with mitigation** would occur.

b) *Would the project conflict with existing zoning for agricultural use, or a Williamson Act Contract?*

**No Impact.** As shown in Figure 5.2-2 of the Agricultural Resources Chapter of the 2014 Clovis General Plan EIR, the Project site is not under a Williamson Act Contract. Further, the site is not currently zoned or designated for agricultural use. As a result, the Project would have **no impact** with regards to conflicting with existing zoning for agricultural use or a Williamson Act Contract.

c) *Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220 (g)) or timberland (as defined in Public Resources Code section 4526)?*

**No Impact.** The Project site does not contain forest land. Further, the site is not zoned for forestry or other forestry related uses. As a result, **no impact** would occur with regards to conflicts with existing zoning for, or cause rezoning of, forest land.

d) *Would the project result in the loss of forest land or conversion of forest land to non-forest use?*

**No Impact.** See discussion under Section 2c.

e) *Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?*

**Less Than Significant Impact with Mitigation.** Although the Project site for development of 266-single family homes contains Prime Farmland according to the Department of Conservation, the site is not designated for agricultural uses, see discussion in Section 2a. The 2014 Clovis General Plan designates the Project site for residential uses. The Project annexation area is located within the Heritage Grove area which is planned to be converted to non-agricultural land pursuant to the 2014 General Plan. However, given that the development within the annexation area would be phased over time, some adjacent agricultural uses would continue to operate until other projects are proposed to be constructed. The City's General Plan contains policies to aid in the preservation of agricultural land, including Policies 2.4 and 2.5 of the General Plan's Open Space and Conservation Element. As such Mitigation Measure AG-2 would be implemented to ensure notification of Right-To Farm to future residents of the Project site, such that residents would be prepared to accept inconveniences and discomfort associated with normal farm activities on parcels adjacent to the Project site. Issuance of Right-to-Farm notifications would prevent agricultural operations from being the subject of nuisance complaints and being forced to cease or curtail operations. The Project site is not designated for forest or timberland. With implementation of Mitigation Measure AG-2, the proposed Project would not result in conversion of farmland to non-agricultural use, and the impact would be **less-than-significant impact with mitigation**.

Mitigation Measure AGR-2: Pursuant to Clovis Municipal Code Section 9.40.170 and the California Civil Code Section 3482.5, prior to approval of building occupancy permits the Project developer shall

provide residents of the Project site Right-To-Farm notifications. The Right-To-Farm notification would advise future occupants of the Project site that they are residing adjacent to agricultural land that has been active for three or more years and that they should expect continued activities associated with agricultural production.

## 3. AIR QUALITY

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Conflict with or obstruct implementation of the applicable air quality plan? | | X | | |
| b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard? | | | X | |
| c. Expose sensitive receptors to substantial pollutant concentrations? | | | X | |
| d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people? | | | X | |

**ENVIRONMENTAL SETTING**

An Air Quality and Greenhouse Gas Analysis Memorandum (AQ/GHG Memo) was prepared by LSA Associates Inc. (LSA) in August of 2024 (see Appendix A). Information in this AQ/GHG Memo is used for the analysis included in both the Air Quality and Greenhouse Gas Emissions section of this Initial Study.

***San Joaquin Valley Air Basin***

The City of Clovis (City) is in the central portion of the San Joaquin Valley Air Basin (SJVAB). SJVAB consists of eight counties: Fresno, Kern (western and central), Kings, Tulare, Madera, Merced, San Joaquin, and Stanislaus. The SJVAB is approximately 25,000 square miles. It is bordered by the Sierra Nevada in the east, the Coast Ranges in the west, and the Tehachapi mountains in the south. The valley is topographically flat with a slight downward gradient to the northwest. The valley opens to the sea at the Carquinez Straits where the San Joaquin-Sacramento Delta empties into San Francisco Bay.

***Topography***

The topography of a region is important for air quality because mountains can block airflow that would help disperse pollutants and can channel air from upwind areas that transports pollutants to downwind areas. The San Joaquin Valley Air Pollution Control District (SJVAPCD) covers the entirety of the SJVAB. The SJVAB is generally shaped like a bowl. It is open in the north and is surrounded by mountain ranges on all other sides. The Sierra Nevada mountains are along the eastern boundary (8,000 to 14,000 feet in elevation), the Coast Ranges are along the western boundary (3,000 feet in elevation), and the Tehachapi Mountains are along the southern boundary (6,000 to 8,000 feet in elevation).

***Climate***

The SJVAB is in a Mediterranean climate zone and is influenced by a subtropical high-pressure cell most of the year. Mediterranean climates are characterized by sparse rainfall, which occurs mainly in winter. Summers are hot and dry. Summertime maximum temperatures often exceed 100°F in the valley.

The subtropical high-pressure cell is strongest during spring, summer, and fall and produces subsiding air, which can result in temperature inversions in the valley. A temperature inversion can act like a lid, inhibiting vertical mixing of the air mass at the surface.

Any emissions of pollutants can be trapped below the inversion. Most of the surrounding mountains are above the normal height of summer inversions (1,500–3,000 feet).

Winter-time high pressure events can often last many weeks, with surface temperatures often lowering into the 30°F. During these events, fog can be present, and inversions are extremely strong. These wintertime inversions can inhibit vertical mixing of pollutants to a few hundred feet.

***Ambient Air Quality Standards***

The Clean Air Act (CAA) was passed in 1963 by the US Congress and has been amended several times. The 1970 CAA amendments strengthened previous legislation and laid the foundation for the regulatory scheme of the 1970s and 1980s. In 1977, Congress again added several provisions, including nonattainment requirements for areas not meeting National Air Quality Standards (AAQS) and the Prevention of Significant Deterioration program. The 1990 amendments represent the latest in a series of federal efforts to regulate the protection of air quality in the United States. The CAA allows states to adopt more stringent standards or to include other pollution species. The California Clean Air Act, signed into law in 1988, requires all areas of the state to achieve and maintain the California AAQS by the earliest practical date. The California AAQS tend to be more restrictive than the National AAQS, based on even greater health and welfare concerns.

These National and California AAQS are the levels of air quality considered to provide a margin of safety in the protection of the public health and welfare. They are designed to protect "sensitive receptors," those most susceptible to further respiratory distress, such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and persons engaged in strenuous work or exercise. Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed.

Both California and the federal government have established health based AAQS for six air pollutants. As shown in Table 3, Ambient Air Quality Standards for Criteria Pollutants, these pollutants are carbon monoxide (CO), ozone ($O_3$), nitrogen dioxide ($NO_2$), sulfur dioxide ($SO_2$), lead (Pb), and suspended particulate matter ($PM_{2.5}$ and $PM_{10}$). In addition, the state has set standards for sulfates and hydrogen sulfide. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety.

In addition to the criteria pollutants, toxic air contaminants (TACs) are another group of pollutants of concern. TACs are injurious in small quantities and are regulated despite the absence of criteria documents. The identification, regulation and monitoring of TACs is relatively recent compared to that for criteria pollutants. Unlike criteria pollutants, TACs are regulated based on risk rather than specification of safe levels of contamination.

***Attainment Status***

The air quality management plans prepared by SJVAPCD provide the framework for SJVAB to achieve attainment of the state and federal AAQS through the State Implementation Plan. Areas are classified as attainment or nonattainment areas for pollutants, depending on whether they meet the ambient air quality standards. Nonattainment areas are imposed with additional restrictions as required by the United States Environmental Protection Agency. There are different classifications for attainment and the severity classifications for ozone nonattainment range in magnitude from marginal, moderate, and serious to severe and extreme. These classifications are used as a foundation to create air quality management strategies to improve air quality and comply with the National AAQS.

**Table 2: Air Quality Attainment Status for Fresno County**

| Pollutant | State | Federal |
|---|---|---|
| Ozone (1-hour) | Sever/Nonattainment | Not Applicable |
| Ozone (8-hour) | Nonattainment | Extreme Nonattainment |
| $PM_{10}$ | Nonattainment | Attainment (Maintenance) |
| $PM_{2.5}$ | Nonattainment | Nonattainment |
| Carbon Monoxide | Attainment | Attainment (Maintenance) |
| Nitrogen Dioxide | Attainment | Unclassified/Attainment |
| Lead | Attainment | Unclassified/Attainment |
| Sulfur Dioxide | Attainment | Unclassified |
| Sulfates | Attainment | No Federal Regulation |
| Hydrogen Sulfide | Unclassified | No Federal Regulation |

**DISCUSSION**

a) *Would the project conflict with or obstruct implementation of the applicable air quality plan?*

**Less-Than-Significant Impact With Mitigation.** In general, regional air quality impacts and attainment of standards are the result of the cumulative impacts of all emission sources within the air basin. Thus, individual projects are generally not large enough to contribute measurably to an existing violation or air quality standards alone. Although the CEQA Guidelines indicate that a significant impact would occur if the Project were to conflict with or obstruct implementation of the applicable air quality plan, the SJVAPCDs 2015 Guide for Assessing and Mitigating Air Quality Impacts (GAMAQI) does not provide specific guidance on analyzing conformity with the plan. Thus, for purposes of analyzing this potential impact, the AQ/GHG Report considered impacts based on: (1) Conflict with or obstruct implementation of the applicable air quality plan; (2) Result in a cumulatively considerable net increase if any criteria pollutant for which the project region nonattainment under an applicable federal or state ambient air quality standard: (3) Expose sensitive receptors to substantial pollutant concentrations; and (4) Result in other emissions such as those lead to odors adversely affecting a substantial number of people.[3]

The San Joaquin Valley Air Board (SJVAB) is designated as non-attainment for $O_3$ and $PM_{2.5}$ for federal standards and non-attainment for $O_3$, $PM_{10}$, and $PM_{2.5}$ for State standards. Construction of the proposed project would not result in the generation of criteria air pollutants that would exceed SJVAPCD thresholds of significance. In addition to the construction period thresholds of significance, the SJVAPCD has implemented Regulation VIII measures for dust control during construction. These control measures are intended to reduce the amount of $PM_{10}$ emissions during the construction period.

Mitigation Measure AIR-1: Consistent with San Joaquin Valley Air Pollution Control District (SJVAPCD) Regulation VIII (Fugitive $PM_{10}$ Prohibitions), the following controls are required to be included as specifications for the proposed project and implemented at the construction site:

- All disturbed areas, including storage piles, which are not being actively utilized for construction purposes, shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant or covered with a tarp or other suitable cover or vegetative ground cover.
- All on-site unpaved roads and off-site unpaved access roads shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant.

3. Air Quality and Greenhouse Gas Analysis Report by LSA Associates Inc. (LSA) in August of 2024

- All land clearing, grubbing, scraping, excavation, land leveling, grading, cut and fill, and demolition activities shall be effectively controlled of fugitive dust emissions utilizing application of water or by presoaking.

- When materials are transported off site, all material shall be covered, or effectively wetted to limit visible dust emissions, and at least 6 inches of freeboard space from the top of the container shall be maintained.

- All operations shall limit or expeditiously remove the accumulation of mud or dirt from adjacent public streets at the end of each workday. (The use of dry rotary brushes is expressly prohibited except where preceded or accompanied by sufficient wetting to limit the visible dust emissions. Use of blower devices is expressly forbidden).

- Following the addition of materials to, or the removal of materials from, the surface of outdoor storage piles, said piles shall be effectively stabilized of fugitive dust emissions utilizing sufficient water or chemical stabilizer/suppressant.

Construction emissions associated with the proposed project have a **less-than-significant impact with mitigation** implemented.

b) *Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?*

**Less-Than-Significant Impact.** See discussion under Section 3a above.

c) *Would the project expose sensitive receptors to substantial pollutant concentrations?*

**Less-Than-Significant Impact.** Sensitive receptors are generally considered to include children, the elderly, and persons with pre-existing respiratory and cardiovascular illness. The SJVAPCD considers a sensitive receptor a location that houses or attracts children, the elderly, or people with illnesses. Examples of these receptors are considered to be hospitals, residences, schools and school facilities, daycare facilities, and convalescent facilities. The nearest sensitive receptors to the Project site would be the residences located approximately 75 feet west and 100 feet north of the project site.

Based the AQ/GHG Report, an evaluation of nearby land uses shows the maximum cancer risk for the residential receptor would be 9.92 in one million, which would not exceed the SJVAPCD cancer risk threshold of 20 in one million. The worker receptor risk would be lower at 6.02 in one million and the school receptor risk would be 0.24 in one million, which would also not exceed the SJVAPCD cancer risk thresholds. The total chronic hazard index would be 0.010 for the residential receptor MEI and worker receptor MEI and less than 0.001 for the school receptor MEI, which are all below the threshold of 1.0. In addition, the total acute hazard index would be nominal (0.000), which would also not exceed the threshold of 1.0. Therefore, construction of the proposed project would not exceed SJVAPCD thresholds and would not expose nearby sensitive receptors to substantial pollutant concentrations. No significant health risk would occur from project construction emissions. Additionally, compliance with SJVAPCD rules would further limit doses and exposures, reducing potential health risk related to vehicle and equipment emissions to a level that is not significant. Once the proposed project is constructed, it would not be a source of substantial emissions. Therefore, a **less-than-significant** impact would occur with no mitigation measures.

d) *Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?*

**Less-Than-Significant Impact.** Generally, sources considered to emit odors are associated with wastewater treatment facilities, sanitary landfills, petroleum refineries, chemical manufacturing, and other industrial/manufacturing related uses. During project construction, some odors may be present due to diesel exhaust. However, these odors would be temporary and limited to the construction period. The proposed uses are not anticipated to emit any objectionable odors. Any odors in general would be confined mainly to the project site and would readily dissipate. Therefore, the proposed project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. Thus, a **less-than-significant** impact would occur with no mitigation measures.

## 4. BIOLOGICAL RESOURCES

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service? | | X | | |
| b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Game or US Fish and Wildlife Service? | | | | X |
| c. Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means? | | | | X |
| d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites? | | | | X |
| e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? | | | | X |
| f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural community Conservation Plan, or other approved local, regional, or state habitat conservation plan? | | | | X |

**ENVIRONMENTAL SETTING**

A Biological Resources Evaluation (BRE) was prepared by LSA in June 2024 (see Appendix B). This BRE included a literature review, records search, and field survey on May 1, 2024, to identify the existence and potential for occurrence of sensitive or special-status plant and animal species in the project vicinity. The Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and

accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities

**DISCUSSION**

a) *Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?*

**Less-Than-Significant Impact With Mitigation.** As described in the BRE, is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site comprises of an existing single-family residence and no natural plant communities occur in the area of the Project site.[4] No special-status wildlife species or diagnostic signs of special-status wildlife species were present on the Project site, however, may be marginally suitable for isolated habitat for several regionally occurring special-status species (Swainson's hawk). Mature trees on the site could provide suitable nesting habitat for tree-nesting species. During the May 1, 2024 survey of the site, there were no signs indicating occupation by these species.

Implementation of mitigation measures BIO-1, BIO-2, and BIO-3 would ensure that a **less-than-significant impact with mitigation** occurs.

Mitigation Measure BIO-1: **Pre-Activity Surveys for Swainson's Hawk Nests.** If Project activities must occur during the nesting season (February 15 to August 31), pre-activity surveys shall be conducted for Swainson's hawk nests within 14 days prior to the start of construction. The surveys would be conducted within the Project site plus a 0.5-mile buffer. The survey shall be conducted in accordance with the methodology outlined in existing protocols. Note that Sawinson's hawks may establish a nest at any time from February through June; multiple Swainson's hawks nest surveys may be necessary in one season at the direction of a qualified biologist, depending on the timing of Project construction. If no Swainson's hawk nests are found, no further action is required.

Mitigation Measure BIO-2: **Swainson's Hawk Nest Avoidance.** If an active Swainson's hawk nest is discovered at any time within 0.5 mile of active construction, a qualified biologist shall complete an assessment of the potential for current construction activities to impact the nest. The assessment shall consider the type of construction activities to impact the nest. The assessment shall consider the type of construction activities, the location of construction relative to the nest, the visibility of construction activities from the nest location, and other existing disturbances in the area that are not related to construction activities of this Project. Based on this assessment, the biologist shall determine if construction activities can proceed and if nest monitoring will be required. At a minimum, construction activities shall not occur within 100 feet of an active nest and shall require monitoring if within 500 feet of an active nest. These buffers may need to increase depending on the sensitivity of the nest location.

Mitigation Measure BIO-3: **Pre-Activity Nesting Bird Surveys.** If Project activities must occur during the nesting season (February 15 to August 31), pre-activity nesting bird surveys shall be conducted no more than 7 days prior to the start of construction at the construction site plus a 250-foot buffer for songbirds and a 500-foot buffer for raptors (other than Swainson's hawk). If no active nests are found, no further action is required; however, note that nests may become active at any time throughout the summer, including when construction activities are occurring. If active nests are found during the

4 Biological Resources Evaluation prepared by LSA, June 2024.

survey or at any time during Project construction, an avoidance buffer ranging from 50 feet to 350 feet shall be required, as determined by a qualified biologist. The avoidance buffer shall remain in place until the biologist has determined that the young are no longer reliant on the nest. Work may occur within the avoidance buffer under the approval and guidance of the biologist. The biologist shall have the ability to stop construction if nesting adults show signs of distress.

Project impacts to special-status species will be reduced to a **less-than-significant impact with mitigation** implemented.

b) *Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?*

**No Impact.** There are no sensitive natural communities present. Therefore, the Project would have **no impacts** to sensitive natural communities and no measures are required.

c) *Would the project have a substantial adverse effect on state or federally protected wetlands as (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?*

**No Impact.** No jurisdictional aquatic resources are present on the Project site. **No impacts to** jurisdictional resources would occur with construction of the Project and no measures are required.

d) *Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?*

**No Impact.** The BRE did not identify the site as a regional or local wildlife movement corridors,[5] thus, **no impact** would occur.

e) *Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?*

**No Impact.** The Project is not located within the boundaries of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved habitat conservation plan. Development of the Project would not conflict with any habitat conservation plan; therefore, **no impact** would occur and no mitigation measures are required.

f) *Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural community Conservation Plan, or other approved local, regional, or state habitat conservation plan?*

**No Impact.** The City and Fresno County currently do not have a regional Natural Community Conservation Plan or a Habitat Conservation Plan. The Project site is subject to relevant biological resource policies of the 2014 General Plan. Therefore, there are no impacts to conservation plans. Overall, **no impact** would occur.

## 5. CULTURAL RESOURCES

| Would the project: | Potentially Significant | Less Than Significant With Mitigation | Less Than Significant | No Impact |
|---|---|---|---|---|

5 Biological Resources Evaluation prepared by LSA, June 2024, page 3.

| | Impact | Incorporated | Impact | |
|---|---|---|---|---|
| a. Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5? | | X | | |
| b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5? | | X | | |
| c. Disturb any human remains, including those interred outside of formal cemeteries? | | X | | |

**ENVIRONMENTAL SETTING**

The Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities.

A Cultural Resource Assessment (Cultural Study) was prepared by Peak & Associates, Inc. dated June 24, 2024 (see Appendix C). This cultural assessment included a records search at the California Historical Resources Information System (CHRIS) Southern San Joaquin Valley Information Center (SSJVIC), Native American Heritage Commission's (NAHC) Sacred Lands File, desktop archival research, as well as a pedestrian survey of the Project site.

In addition to the Cultural Study, City staff conducted Native American Consultation in compliance with Assembly Bill 52 (AB52). In compliance with AB52, invitations for consultation were mailed on July 11, 2024 which affords Native tribes thirty (30) days to respond and to request consultation. During this timeframe, no requests for consultations were received.

**DISCUSSION**

a) *Would the project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?*

**Less-Than-Significant Impact With Mitigation.** As previously mentioned, the Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities. A cultural resource records search was conducted for the Area of Potential Effects (APE) and a 0.25-mile radius at the SSJVIC on May 13, 2024. The search indicated that no prehistoric sites were found during the survey, there is a slight possibility that a site may exist and be totally obscured by vegetation, fill or other historic activities, leaving no surface evidence. Should artifacts or unusual amounts of stone, bone, or shell be uncovered during construction activities, an archeologist should be consulted for on-the spot evaluation of the finding.[6] Further, compliance with Policy 2.9 of the General Plan, which calls for the preservation of historical sites and buildings of state or national significance, would ensure that if there were historical resources present, they would be protected. Because there is the slight possibility for the accidental or inadvertent uncovering of archaeological resources during construction, Mitigation Measure CULT-1 would serve to reduce those potential impacts by requiring any work to stop until any found artifacts can be properly removed and inventoried by a qualified archaeologist. Therefore, regarding the Project causing a substantial adverse

6 Cultural Resource Assessment by Peak & Associates, June 24, 2024, pages 11-12.

change in the significance of a historical resource the Project would result in a **less-than-significant impact with mitigation.**

> Mitigation Measure CULT-1: If prehistoric or historic-era cultural or archaeological materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, meeting the Secretary of the Interior's Professional Qualification Standards for prehistoric and historic archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.
>
> If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.
>
> If a potentially eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met.

b) *Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?*

**Less-Than-Significant Impact With Mitigation.** The Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities. The site's ground has been previously disturbed as a result of the agriculture, single-family residence and other ground disturbing activities throughout the years. Nevertheless, the potential remains that archeological resources could be inadvertently or accidentally uncovered during ground-disturbing activities such as trenching, digging, and the installation of utilities and other infrastructure.

Because there is the slight possibility for the accidental or inadvertent uncovering of archaeological resources during construction, Mitigation Measure CULT-1 would serve to reduce those potential impacts by requiring any work to stop until any found artifacts can be properly removed and inventoried by a qualified archaeologist. Therefore, the Project would result in a **less-than-significant impact with mitigation**.

c) *Would the project disturb any human remains, including those interred outside of formal cemeteries?*

**Less-Than-Significant Impact With Mitigation.** The Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities The site's ground has been previously disturbed as a result of the agriculture, and residential uses and other ground disturbing activities throughout the years. Nevertheless, the potential remains that human remains could be inadvertently or accidentally uncovered during ground-disturbing activities such as trenching, digging, and the installation of utilities and other infrastructure.

Because there is the slight possibility for the accidental or inadvertent uncovering of human remains during construction, Mitigation Measure CULT-2 would serve to reduce those potential impacts by requiring any work

to stop until any found human remains can be properly removed by the County coroner and/or tribes. Therefore, the Project would result in a **less-than-significant impact with mitigation.**

Mitigation Measure CULT-2: If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code. The specific protocol, guidelines, and channels of communication outlined by the Native American Heritage Commission, in accordance with Section 7050.5 of the Health and Safety Code, Section 5097.98 of the Public Resources Code (Chapter 1492, Statutes of 1982, Senate Bill 297), and Senate Bill 447 (Chapter 44, Statutes of 1987), shall be followed. Section 7050.5(c) shall guide the potential Native American involvement, in the event of discovery of human remains, at the direction of the County coroner. All reports, correspondence, and determinations regarding the discovery of human remains on the project site shall be submitted to the Lead Agency.

## 6. ENERGY

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation? | | | X | |
| b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency? | | | X | |

**ENVIRONMENTAL SETTING**

The Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities.

**DISCUSSION**

a) *Would the project result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?*

**Less-Than-Significant Impact.** The Project proposes the construction of 266 single-family homes on ±36.92 acres, along with associated landscape, hardscape, and infrastructure (i.e., drive aisles, utilities, etc.). The Project would include construction activities typical of residential development, thus, is not generally considered the type of use or intensity that would result in the unnecessary consumption of energy. The units themselves would comply with Title 24 Green Building Standards for energy efficiency, as well as be required to comply with the latest water efficient landscape policy regulations, and California Building Code. Further, the Project would be required to comply with Clovis 2014 General Plan Policy 3.4, and 3.7 of the Open Space and Conservation, which call for the use of water conserving and drought tolerant landscape, as well as energy efficient buildings. Consequently, compliance with these measures would ensure that the Project does not result in a significant impact due to the unnecessary consumption of energy and **less-than-significant** impact would occur with no mitigation measures.

b) *Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?*

**Less-Than-Significant Impact.** See discussion under Section 6a above.

## 7. GEOLOGY AND SOILS

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: | | | | |
| i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? | | | X | |
| ii. Strong seismic ground shaking? | | | X | |
| iii. Seismic-related ground failure, including liquefaction? | | | X | |
| iv. Landslides? | | | X | |
| b. Result in substantial soil erosion or the loss of topsoil? | | | X | |
| c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse? | | | X | |
| d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property? | | | | X |
| e. Have soils incapable of adequately supporting the use of septic tanks or alternative waste disposal systems where sewers are not available for the disposal of wastewater? | | | | X |
| f. Directly or indirectly destroy a unique paleontological resource or unique geologic feature? | | X | | |

**ENVIRONMENTAL SETTING**

The 2014 Clovis General Plan EIR identified no geologic hazards or unstable soil conditions known to exist on the Project site.

**DISCUSSION**

a) *Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?; ii) Strong seismic ground shaking?; iii) Seismic-related ground failure, including liquefaction?; iv) Landslides?*

**Less-Than-Significant Impact.** Although the Project site does not have any known faults on the site, the potential remains that seismic ground-shaking could occur from the fault located east of the Project. However, adherence to the most current California Building Codes would ensure that the structures are constructed safely and in compliance with the appropriate building codes. With regards to liquefaction, the 2014 General Plan EIR states that the soil types in the area are not considered conducive to liquefaction due to their high clay content or from being too coarse.[7] Further, the site is generally flat and therefore landslides would not occur at the Project site. Overall, due to the location away from a known fault, adherence to the most recent California Building Codes, and the flat topography, a **less-than-significant impact** would occur with regards to potential impacts from seismic activity.

b) *Would the project result in substantial soil erosion or the loss of topsoil?*

**Less-Than-Significant Impact.** Although the site is relatively flat, grading activities would be required to ensure a flat and graded surface prior to construction, which may result in the soil erosion and loss of topsoil. However, as part of the Project, grading plans are required to be submitted and approved by the Engineering Division to ensure appropriate grading of the site. Thus, this review and approval process would ensure that a **less-than-significant** impact occur and no mitigation measures are required.

c) *Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?*

**Less-Than-Significant Impact.** See discussion under Section 7a.

d) *Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating direct or indirect substantial risks to life or property?*

**No Impact.** According to the 2014 Clovis General Plan EIR, expansive soils are mostly present in areas along the northern edge of the non-Sphere of Influence (SOI) and the easternmost part of the Clovis non-SOI plan area. Because the Project is not within the vicinity of these areas, there would be no potential for creating direct or indirect substantial risks to life or property with regards to expansive soils. As a result, **no impact** would occur.

e) *Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste disposal systems where sewers are not available for the disposal of wastewater?*

**No Impact.** The Project does not propose the use of septic tanks; therefore, **no impact** would occur.

7 2014 Clovis General Plan EIR, Chapter 5: Geology and Soils, page 5.6-3.

f) *Would the project directly or indirectly destroy a unique paleontological resource or unique geologic feature?*

**Less-Than-Significant Impact With Mitigation.** The Project site has been previously disturbed, as well as the immediately surrounding areas with no known occurrences of the discovery of paleontological resources. In addition, the BRE concluded that the potential for uncovering of subsurface deposits is unlikely. Nevertheless, the possibility remains that the inadvertent or accidental discovery could occur during ground disturbing construction activities. However, Mitigation Measure GEO-1, below, would serve to protect the accidental discovery of paleontological resources. As such, a **less-than-significant with mitigation** impact would occur.

Mitigation Measure GEO-1: If prehistoric or historic-era cultural materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist and/or paleontologist, meeting the Secretary of the Interior's Professional Qualification Standards for prehistoric and historic archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.

If the qualified professional determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.

If a potentially eligible resource is encountered, then the qualified professional archaeologist and/or paleontologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met.

## 8. GREENHOUSE GAS EMISSIONS

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? | X | | | |
| b. Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases? | X | | | |

**ENVIRONMENTAL SETTING**

Gases that trap heat in the atmosphere are referred to as greenhouse gases (GHGs) because they capture heat radiated from the sun as it is reflected into the atmosphere. The accumulation of GHG's has been implicated as a driving force for global climate change. Definitions of climate change vary between and across regulatory authorities and the scientific community, but in general can be described as the changing of the

earth's climate caused by natural fluctuations and anthropogenic activities which alter the composition of the global atmosphere.

Individual projects contribute to the cumulative effects of climate change by emitting GHGs during construction and operational phases. The principal GHGs are carbon dioxide, methane, nitrous oxide, ozone, and water vapor. While the presence of the primary GHGs in the atmosphere are naturally occurring, carbon dioxide ($CO_2$), methane ($CH_4$), and nitrous oxide ($N_2O$) are largely emitted from human activities, accelerating the rate at which these compounds occur within earth's atmosphere. Carbon dioxide is the "reference gas" for climate change, meaning that emissions of GHGs are typically reported in "carbon dioxide-equivalent" measures. Emissions of carbon dioxide are largely by-products of fossil fuel combustion, whereas methane results from off-gassing associated with agricultural practices and landfills. Other GHGs, with much greater heat-absorption potential than carbon dioxide, include hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride, and are generated in certain industrial processes.

There is international scientific consensus that human-caused increases in GHGs have and will continue to contribute to global warming, although there is uncertainty concerning the magnitude and rate of the warming. Potential global warming impacts in California may include, but are not limited to, loss in snowpack, sea level rise, more extreme heat days per year, more high ozone days, more large forest fires, and more drought years. Secondary effects are likely to include a global rise in sea level, impacts to agriculture, changes in disease vectors, and changes in habitat and biodiversity.

In 2005, in recognition of California's vulnerability to the effects of climate change, Executive Order S-3-05 was signed. The order sets forth a series of target dates by which statewide emission of GHGs would be progressively reduced, as follows: by 2010, reduce GHG emissions to 2000 levels; by 2020, reduce GHG emissions to 1990 levels; and by 2050, reduce GHG emissions to 80 percent below 1990 levels. In 2006, California passed the California Global Warming Solutions Act of 2006 (Assembly Bill 32), which requires the California Air Resources Board to design and implement emission limits, regulations, and other measures, such that feasible and cost-effective statewide GHG emissions are reduced to 1990 levels by 2020.

In December 2009, the SJVAPCD adopted guidance for addressing GHG impacts in its *Guidance for Valley Land Use Agencies in Addressing GHG Emission Impacts for New Projects under* CEQA. The guidance relies on performance-based standards, otherwise known as Best Performance Standards (BPS), to assess significance of project-specific GHG emissions on global climate change during the environmental review process. Projects can reduce their GHG emission impacts to a less than significant level by implementing BPS. Projects can also demonstrate compliance with the requirements of AB 32 by demonstrating that their emissions achieve a 29% reduction below "business as usual" (BAU) levels. BAU is a projected GHG emissions inventory assuming no change in existing business practices and without considering implementation of any GHG emission reduction measures.

***Significance Criteria***

The SJVAPCDs *Guidance for Valley Land Use Agencies in Addressing GHG Impacts for New Projects Under CEQA* provides initial screening criteria for climate change analyses, as well as draft guidance for the determination of significance.

The effects of project specific GHG emissions are cumulative, and therefore climate change impacts are addressed as a cumulative, rather than a direct, impact. The guidance for determining significance of impacts has been developed from the requirements of Assembly Bill 32. The guideline addresses the potential cumulative impacts that a project's GHG emissions could have on climate change.

Since climate change is a global phenomenon, no direct impact would be identified for an individual land development project. The following criteria are used to evaluate whether a project would result in a significant impact for climate change impacts:

- Does the project comply with an adopted statewide, regional, or local plan for reduction or mitigation of GHG emissions?
- Does the project achieve 29% GHG reductions by using approved Best Performance Standards?
- Does the project achieve Assembly Bill 32 targeted 29% GHG emission reductions compared with BAU?

Projects that meet one of these guidelines would have less-than-significant impact on the global climate. The goal of 29% below BAU for emissions of GHG has been used as a threshold of significance for this analysis.

In December 2022 the 2022 Scoping Plan was approved by the CARB which assesses progress toward achieving carbon neutrality by 2045. Because neither the City of Clovis or the SJVAPCD have developed or adopted numerical GHG significance threshold, the proposed Project was analyzed for consistency with the 2022 Scoping Plan consistent with statewide climate goals. The 2022 Scoping Plan includes key project attributes that reduce operational GHG emissions.

**DISCUSSION**

a) *Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?*

**Significant and Unavoidable Impact.** The Project would include the construction and operation of 266 single-family homes and associated infrastructure (i.e., sewer and water infrastructure, roadways, sidewalks, etc.). As such, short-term GHG emissions would be produced through the construction phase of the Project. Using CalEEMod, it is estimated that the annual emissions associated with construction of the proposed project would be approximately 1,545.0 metric tons of $CO_2$ e per year. Additionally, long-term GHG emissions are typically generated from mobile sources (e.g., vehicle and truck trips), area sources (e.g., maintenance activities and landscaping), indirect emissions from sources associated with energy consumption, waste sources (land filling and waste disposal), and water sources (water supply and conveyance, treatment, and distribution). As part of the AQ/GHG Report,[8] the proposed Project would result in emissions of approximately 2,650.4 MT $CO_2$ e per year. With this information, the Project was analyzed for consistency with the 2022 Scoping Plan. The 2022 Scoping Plan includes key project attributes that reduce operational GHG emission in Appendix D, Local Actions, of the 2022 Scoping Plan.

The first approach the State recommends for determining whether a proposed residential or mixed-use residential development would align with the State's climate goals is to examine whether the project includes key project attributes that reduce operational GHG emissions. As demonstrated in Table K of the AQ/GHG Report,[9] the Project would not be consistent with the 2022 Scoping Plan key residential and mixed-use project attributes related to VMT reduction. As discussed in Table K and in the project's TIA, the proposed project would result in a significant and unavoidable VMT impact. As previously noted, the project is consistent with the City's General Plan. During preparation of the General Plan, an EIR was prepared, along with a Statement of Overriding Consideration, that discussed the potential environmental impacts and required mitigation

8 Air Quality and Greenhouse Gas Analysis Report, LSA, August 2024.

9 Air Quality and Greenhouse Gas Analysis Report, LSA, August 2024.

measures to be implemented/followed by all future projects that are consistent with the General Plan. The proposed project would be conditioned to implement and follow these measures. Therefore, though proposed project would have a significant and unavoidable transportation impact under CEQA, no further mitigation measure would be required for the project related to VMT.

As discussed above, the proposed project would generally comply with existing State regulations adopted to achieve the overall GHG emissions reduction goals identified in the 2022 RTP. However, as described above, the proposed project would not be consistent with the 2022 Scoping Plan key residential and mixed-use project attributes related to VMT reduction. As such, the proposed project would not contribute to its "fair share" of emission reductions required to support achieving long-term State GHG reduction goals due to project's significant and unavoidable VMT impact. Therefore, the proposed project would conflict with the plans and policies adopted for the purpose of reducing the emissions of greenhouse gases, including the CARB 2022 Scoping Plan, Executive Order B-30-15, SB 32, and AB 1279. As such, although the proposed project would have a **significant and unavoidable impact** under CEQA, no further mitigation measures would be required for the project related to GHG.

b) *Would the project conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?*

**Significant and Unavoidable Impact.** Based on the AQ/GHG Report,[10] the overall GHG emissions reduction goals were identified in the 2022 RTP. However, as described above, the proposed project would not be consistent with the 2022 Scoping Plan key residential and mixed-use project attributes related to VMT reduction. As such, the proposed project would not contribute to its "fair share" of emission reductions required to support achieving long-term State GHG reduction goals due to project's significant and unavoidable VMT impact. Therefore, the proposed project would conflict with the plans and policies adopted for the purpose of reducing the emissions of greenhouse gases, including the CARB 2022 Scoping Plan, Executive Order B-30-15, SB 32, and AB 1279.Consequently, the AQ/GHG Report found this potential impact to be a **significant and unavoidable impact**, however, as discussed above no additional mitigation measures required based on the Project's consistency with the General Plan designation of Medium High Density and the Heritage Grove Growth planned growth area.

## 9. HAZARDS AND HAZARDOUS MATERIALS

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials? | | | X | |
| b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? | | | X | |
| c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter | | | | X |

10 Air Quality and Greenhouse Gas Analysis Report, LSA, August 2024.

| | | | | |
|---|---|---|---|---|
| mile of an existing or proposed school? | | | | |
| d. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? | | | | X |
| e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area? | | | | X |
| f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? | | | X | |
| g. Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires? | | | X | |

**ENVIRONMENTAL SETTING**

For purposes of this chapter, the term "hazardous materials" refers to both hazardous substances and hazardous wastes. A "hazardous material" is defined in the Code of Federal Regulations (CFR) as "substance or material that is capable of posing an unreasonable risk to health, safety, and property when transported in commerce" (49 CFR 171.8). California Health and Safety Code Section 25501 defines a hazardous material as "any material that, because of its quantity, concentration, or physical, or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment." Hazardous materials include, but are not limited to, hazardous substances, hazardous waste, and any material which a handler or the administering agency has a reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment.

"Hazardous wastes" are defined in California Health and Safety Code Section 25141(b) as wastes that "...because of their quantity, concentration, or physical, chemical, or infectious characteristics, [may either] cause or significantly contribute to an increase in mortality or an increase in serious illness, or pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of, or otherwise managed."

The nearest school to the Project site is Riverview Elementary School, located approximately one and a half (1.5) mile west of the site at its closest point.

**DISCUSSION**

a) *Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?*

**Less-Than-Significant Impact.** The Project consists of the construction of 266 single-family homes on ±36.92 acres. The type of hazardous materials that would be associated with the Project are those typical of residential uses, such as the use of household cleaners, landscape maintenance products, soaps, and

potential pesticides (for pest control). These materials, when used and applied properly, would not necessarily create a significant hazard to the public or the environment. Further, these materials are not anticipated to be stored in large quantities that could pose a threat. Overall, the Project would not routinely transport, use, or dispose of hazardous materials other than those typical of residential development, which are not generally considered of the type or quantity that would pose a significant hazard to the public when used as directed. During construction, typical equipment and materials would be used that are associated with residential construction; however, any chemicals or materials would be handled, stored, disposed of, and/or transported according to applicable laws. Consequently, because the Project is not of the type of use that would routinely transport, use, or dispose of hazardous materials a **less-than-significant** impact would occur with no mitigation measures.

b) *Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?*

**Less-Than-Significant Impact.** See discussion above under Section 9a.

c) *Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?*

**No Impact.** As mentioned above, the Project site is located approximately one and a half (1.5) mile from the nearest school. Further, the Project is not of the type of use typically associated with emitting hazardous emissions or handling the type or quantity of hazardous materials such that it would pose a risk or threat to the school, or surrounding area. Therefore, **no impact** would occur.

d) *Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?*

**No Impact.** According to the California Department of Toxic Substance Control EnviroStor Database, the Project site is not located on or within the immediate vicinity of a hazardous materials site.[11] Therefore, **no impact** would occur.

e) *For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?*

**No Impact.** The Project is located approximately seven (7) miles northeast of the Fresno Yosemite International Airport and is not within the Airport Influence Area, safety zones, noise, or airspace and overflight areas. Therefore, **no impact** would occur.

f) *Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?*

**Less-Than-Significant Impact.** The Project will connect in the internal street network to N. Peach, E. Behymer, and N. Minnewawa Avenues. Although the Project could result in temporary traffic detouring or closures during buildout, these delays would be temporary and would be coordinated with the City Planning

11 California Department of Toxic Substance Control, EnviroStor Database, https://www.envirostor.dtsc.ca.gov/public/map/?global_id=71003467, accessed on September 30, 2024.

and Development Services Department and other departments to ensure safe access to and from the area is maintained. Further, the site itself would be reviewed by City departments to ensure adequate site access and circulation is provided in the event of an emergency. Overall, a **less-than-significant** impact would occur with no mitigation measures.

g) *Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?*

**Less-Than-Significant Impact.** The Project site it is not located in an area typically associated with wildfires. Although urban fires could occur, the Project would be constructed to the latest fire code standards, which would include fire sprinklers in each unit, as well as the installation of several fire hydrants throughout the site as required by the Clovis Fire Department. Further, other life safety features would be required such as smoke detectors, which would be reviewed and checked by the Fire Department to ensure proper operation prior to occupancy. Ultimately, a **less-than-significant** impact would occur with no mitigation measures.

## 10. HYDROLOGY AND WATER QUALITY

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Signlficant Impact | No Impact |
|---|---|---|---|---|
| a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality? | | | X | |
| b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin? | | | X | |
| c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: (i) result in substantial erosion or siltation on- or off-site; (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; (iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or (iv) impede or redirect flood flows? | | | X | |
| i. Result in substantial erosion or siltation on- or off-site? | | | X | |
| ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite? | | | X | |
| iii. Create or contribute runoff water which | | | X | |

| | | | | |
|---|---|---|---|---|
| would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff? | | | | |
| iv. Impede or redirect flood flows? | | | X | |
| d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation? | | | X | |
| e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? | | | X | |

**ENVIRONMENTAL SETTING**

The City is within the drainages of three streams: Dry Creek, Dog Creek, and Redbank Slough. On the north, Dry Creek discharges into the Herndon Canal in the City of Fresno west of Clovis. South of Dry Creek, Dog Creek is a tributary of Redbank Slough, which discharges into Mill Ditch south of Clovis (USGS 2012). A network of storm drains in the City discharge into 31 retention basins, most of which provide drainage for a one- to two-square-mile area. Most of the Plan Area east and northeast of the City is not in drainage areas served by retention basins.

The Project is located within the FMFCD boundary, and subject to its standards and regulations. Detention and retention basins in the FMFCD's flood control system are sized to accommodate stormwater from each basin's drainage area in built out condition. The current capacity standard for FMFCD basins is to contain runoff from six inches of rainfall during a 10-day period and to infiltrate about 75 to 80 percent of annual rainfall into the groundwater basin (Rourke 2014). Basins are highly effective at reducing average concentrations of a broad range of contaminants, including several polyaromatic hydrocarbons, total suspended solids, and most metals (FMFCD 2013). Pollutants are removed by filtration through soil, and thus do not reach the groundwater aquifer (FMFCD 2014). Basins are built to design criteria exceeding statewide Standard Urban Stormwater Mitigation Plan (SUSMP) standards (FMFCD 2013). The urban flood control system provides treatment for all types of development—not just the specific categories of development defined in a SUSMP—thus providing greater water quality protection for surface water and groundwater than does a SUSMP.

In addition to their flood control and water quality functions, many FMFCD basins are used for groundwater recharge with imported surface water during the dry season through contracts with the FID and the cities of Fresno and Clovis (FMFCD 2013).

The pipeline collection system in the urban flood control system is designed to convey the peak flow rate from a two-year storm.

Most drainage areas in the urban flood control system do not discharge to other water bodies and drain mostly through infiltration into groundwater. When necessary, FMFCD can move water from a basin in one such drainage area to a second such basin by pumping water into a street and letting water flow in curb and gutter to a storm drain inlet in an adjoining drainage area (Rourke 2014). Two FMFCD drainage areas discharge directly to the San Joaquin River, and three to an irrigation canal, without storage in a basin. Six drainage areas containing basins discharge to the San Joaquin River, and another 39 basins discharge to canals (FMFCD 2013).

A proposed development that would construct more impervious area on its project site than the affected detention/retention basin is sized to accommodate is required to infiltrate some stormwater onsite, such as through an onsite detention basin or drainage swales (Rourke 2014).

The Big Dry Creek Reservoir has a total storage capacity of about 30 thousand acre-feet (taf) and controls up to 230-year flood flows. Fancher Creek Dam and Reservoir hold up to 9.7 taf and controls up to 200-year flood flows. Redbank Creek Dam and Reservoir hold up to 1 taf and controls up to 200-year flood flows.

***Groundwater***

Clovis is underlain by the Kings Groundwater Basin that spans 1,530 square miles of central Fresno County and small areas of northern Kings and Tulare counties. Figure 5.9-4, Kings Groundwater Basin, shows that the basin is bounded on the north by the San Joaquin River, on the west by the Delta-Mendota and Westside Subbasins, the south by the Kings River South Fork and the Empire West Side Irrigation District, and on the east by the Sierra Nevada foothills. Depth to groundwater in 2016 ranged from 196.5 feet at the northwest City boundary to 69.5 feet at the southeast City boundary (Clovis 2016), 25 feet at the southeast SOI boundary, and about 20 feet at the eastern Plan Area boundary (FID 2013). The Kings Subbasin has been identified as critically overdrafted (Provost & Pritchard 2011).

In the Plan Area, groundwater levels are monitored by the City of Clovis and FID. The overall area has not experienced land subsidence due to groundwater pumping since the early 1900s (FID 2006). Subsidence occurs when underground water or natural resources (e.g., oil) are pumped to the extent that the ground elevation lowers. No significant land subsidence is known to have occurred in the last 50 years as a result of land development, water resources development, groundwater pumping, or oil drilling (FID 2006). The City has identified a localized area of subsidence of 0.6 feet in the vicinity of Minnewawa and Herndon Avenues within the last 14 years (Clovis 2016). Regional ground subsidence in the Plan Area was mapped as less than one foot by the US Geological Survey in 1999 (Galloway and Riley 1999). Groundwater levels in the San Joaquin Valley are forecast to hit an all-time low in 2014 (UCCHM 2014).

New development in accordance with the General Plan Update would increase the amount of impervious surface in the Plan Area, potentially affecting the amount of surface water that filters into the groundwater supply. Groundwater levels are monitored in the Plan Area by the FID and the City of Clovis. As described in the 2015 City of Clovis Urban Water Management Plan (UWMP), groundwater recharge occurs both naturally and artificially throughout the City. The Kings Groundwater Basin area is recharged through a joint effort between the Cities of Clovis and Fresno and the FID (CDWR 2006). Approximately 8,400 acre-feet per year (afy) of water are intentionally recharged into the Kings Groundwater Basin by the City of Clovis, and approximately 7,700 afy of water naturally flow into groundwater in the City's boundaries (Clovis 2011).

The FMFCD urban stormwater drainage system would provide groundwater infiltration for runoff from developed land uses in detention basins in the drainage system service area.

Projects pursuant to the proposed General Plan Update and developed outside of the FMFCD urban stormwater drainage system would be required to meet the requirements of NPDES regulations, including the implementation of BMPs to improve water retention and vegetation on project sites.

**DISCUSSION**

a) *Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?*

**Less-Than-Significant Impact.** The Project is located on a site that was previously anticipated for residential use. As with any development, existing policies and standards are required to be complied with, which are

assessed during review of the entitlements. As such, the Engineering Division, as well as outside agencies such as the FMFCD review all plans to ensure that none of the water quality standards are violated and that waste discharge requirements are adhered to during construction and operation of the Project. Consequently, this process of Project review and approval would ensure that a **less-than-significant** impact occur with no mitigation measures.

b) *Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?*

**Less-Than-Significant Impact.** The Project would not deplete groundwater supplies or interfere with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level due to the Project. The 2014 General Plan EIR identified a net decrease in ground water aquifer throughout the region, however, because the City's domestic water system is primarily served through surface water via existing water entitlements, the loss of aquifer is less than significant. The City has developed a surface water treatment plant (opened in June 2004) that reduces the need for pumped groundwater, and has also expanded the municipal groundwater recharge facility. The Projects impacts to groundwater are **less than significant** with no mitigation measures required.

c) *Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would: (i) result in substantial erosion or siltation on- or off-site; (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; (iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or (iv) impede or redirect flood flows?*

**Less-Than-Significant Impact.** There are no streams or rivers on the site that would be altered as a result of the Project. The site is mostly pervious since it is currently undeveloped, and as a result, the Project would increase the number of impervious surfaces by installing paving for roadways and sidewalks. However, the drainage pattern would be constructed per existing policies and regulations through review of the plans by the City Engineering Division and the FMFCD to ensure the site is properly and adequately drained such that the storm drain system is maintained and so that no flooding occurs. Consequently, this review and approval by City engineers and FMFCD would mean that the Project result in a **less-than-significant** impact would occur with no mitigation measures.

d) *Would the project, in flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?*

**Less-Than-Significant Impact.** Due to the Central Valley's location away from the ocean, an impact from a tsunami is unlikely. The majority of the site is located within the 1% annual flood (100-year flood) area as mapped by Federal Emergency Management Agency (FEMA); however, the CMC Section 8.12, Floodplain Management lists standards and requirements for new construction within special flood zones; therefore, the Project would implement flood hazard management as required by the CMC. As a result of adhering to required flood hazard management, the Project would not risk the release of pollutants due to inundation and consequently, the Project would result in a **less-than-significant** impact would occur with no mitigation measures.

e) *Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?*

**Less-Than-Significant Impact.** The City of Clovis is within the North Kings County Groundwater Sustainability Agency (GSA). Pursuant to the Sustainable Groundwater Management Act of 2014 (SGMA), certain regions in California are required to develop and implement a groundwater management plan that sustainably manages groundwater resources. The proposed Project would comply with the 2020 City of Clovis UWMP which promotes programs and policies to manage water supplies. Nevertheless, the Project would derive the majority of its water from surface water sources and does not propose or include plans for groundwater use. With regards to water quality control, the Project would be required to adhere to appropriate storm drain conveyance and the protection of water resources which would include the installation of backflow preventers. Consequently, the Project would result in a **less-than-significant** impact with no mitigation measures.

## 11. LAND USE AND PLANNING

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Physically divide an existing community? | | | X | |
| b. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect? | | | X | |

**ENVIRONMENTAL SETTING**

As described above in the Project Description, the Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities.

**DISCUSSION**

a) *Would the project physically divide an existing community?*

**Less-Than-Significant Impact.** Although the site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings, the general area surrounding the property is designated for future residential development of varying densities. Typically, physically dividing existing communities is associated with the construction of a new road intersecting an established area or introducing uses that are not necessarily in line with the existing uses and planned land uses of the area. However, the Project site has been previously designated in the 2014 Clovis General Plan and zoned for residential use.

Consequently, because the proposed Project is the type of use previously planned for this site and the general areas, it would not physically divide an existing community. Rather, it seeks to add new housing stock to the City with installation of a new public sidewalk and roadway infrastructure. Therefore, a **less-than-significant** impact would occur, and no mitigation measures are required.

b) *Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?*

**Less-Than-Significant Impact.** As mentioned in the Existing Setting Section above, the Project site is currently within the County of Fresno jurisdiction and zoned AE-20 (Exclusive Agricultural). However, the Project site will be rezoned to the R-1-PRD (Single-Family Planned Residential Development) Zone District

though this entitlement application (Rezone 2024-006). According to Section 9.10.010(B)(5) of the CMC, the R-1-PRD Zone District identifies areas appropriate for single-family small lot uses, including attached and detached single-family structures on small lots. If approved, the Project will be required to go through the RSPR entitlement process for review for compliance with relevant design policies, such as in the Heritage Grove Master Plan, the CMC, and the General Plan. During the review, the height, color, and materials are reviewed for consistency with these plans and guidelines. As a result of the Project in complying with the land use and zoning designation upon approval, as well as the review process ensuring General Plan and other applicable policies are adhered to, the Project would result in a **less-than-significant** impact with regards to conflicting with a land use plan. No mitigation measures are required.

### 12. MINERAL RESOURCES

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? | | | | X |
| b. Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? | | | | X |

**ENVIRONMENTAL SETTING**

The City of Clovis 2014 General Plan EIR defines minerals as any naturally occurring chemical elements or compounds formed from inorganic processes and organic substances.[12] The 2014 General Plan EIR indicates that there are no active mines or inactive mines within the Plan Area of the City of Clovis.

**DISCUSSION**

a) *Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?*

**No Impact.** As stated above, the City of Clovis does not have any active mines or inactive mines. Further, the Project site is not zoned, designated, or otherwise mapped for mineral resource extraction, or for having mineral resources of value to the region present on or below the surface of the site. Therefore, **no impact** would occur.

b) *Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?*

**No Impact.** Please refer to the discussion under Section 12a.

### 13. NOISE

| Would the project: | Potentially Significant | Less Than Significant With | Less Than Significant | No Impact |
|---|---|---|---|---|

12 2014 Clovis General Plan EIR, Chapter 5: Mineral Resources, page 5.11-1.

| | Impact | Mitigation Incorporated | Impact | |
|---|---|---|---|---|
| a. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? | | | X | |
| b. Generation of excessive groundborne vibration or groundborne noise levels? | | | X | |
| c. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? | | | | X |

**ENVIRONMENTAL SETTING**

The Project site located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. As such, existing ambient noise levels are typical of those associated with rural residential development, such as the sound of vehicles passing by, the sound of talking, and recreation could be expected within the Project vicinity. As a result of construction existing ambient noise levels may be slightly elevated as a result of the use of construction equipment, such as large trucks, tractors, and other construction tools associated with residential development. These increases would be temporary, however, and would cease upon completion of the neighborhood.

An acoustical analysis was prepared for the Project by LSA in August of 2024 and the analysis below is based in part on the study. As part of the acoustical analysis, noise exposure from traffic on E. Behymer and N. Minnewawa Avenues was calculated for future conditions using the Federal Highway Administration (FHWA) Highway Traffic Noise Prediction Model. The acoustical analysis can be found in Appendix F of this Initial Study.

**DISCUSSION**

a) *Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?*

**Less-Than-Significant Impact.** The Project would include development of 266 single-family homes on an undeveloped site. Thus, the Project would result in a temporary and permanent increase in ambient noise levels as a result of construction and operation. However, as mentioned above, the Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities. The Project would introduce new ambient noise from the construction and operation of the homes, these noises would represent the typical type of noise levels that is expected for a planned residential land use. While increases in ambient noise would occur due to the construction of the Project, this increase would be temporary and would be required to adhere to local regulations limiting the hours of construction.

Section 9.22.080 of the Clovis Municipal Code. Table 3-1: Maximum Exterior Noise Standards sets the maximum permissible sound levels, categorized by land use, as summarized in Table D. The sound level

limits set forth in the table shall not be exceeded by noise emanating from either the same land use category or a different land use category. Because of the residences near the project site, the applicable operational noise level standard for this project is 55 dBA Leq. Section 5.27.604 states that construction activities are only permitted between the hours of 7:00 a.m. and 7:00 p.m., Monday through Friday, and between 9:00 a.m. and 5:00 p.m. on Saturday and Sunday. From June 1 through September 15, permitted construction activity may commence after 6:00 a.m., Monday through Friday.

The acoustical analysis indicated that the increase in project-related traffic noise would be no greater than 0.9 dBA on currently constructed roads. Noise level increases less than 3 dBA are not perceptible to the human ear in an outdoor environment. While there is an increase of 26.9 dBA CNEL on the segment of Peach Avenue south of Behymer Avenue, the overall noise level of 47.5 dBA CNEL would be well below the City's exterior noise level standard of 65 dBA CNEL for residential uses. Therefore, traffic noise impacts from project-related traffic on off-site sensitive receptors would a **less-than-significant impact**, and no mitigation measures are required.

b) *Would the project result in generation of excessive groundborne vibration or groundborne noise levels?*

**Less-Than-Significant Impact.** The Project includes development of 266 single-family homes and associated infrastructure (i.e., sidewalks, roadways, curb, gutter, stormdrains, etc.). The proposed project would not generate vibration levels related to on-site operations. In addition, vibration levels generated from project-related traffic on the adjacent roadways are unusual for on-road vehicles because the rubber tires and suspension systems of on-road vehicles provide vibration isolation. Based on a reference vibration level of 0.076 in/sec PPV, structures greater than 20 ft from the roadways that contain project trips would experience vibration levels below the standard of 0.2 in/sec PPV; therefore, vibration levels generated from project-related traffic on the adjacent roadways would have a **less-than-significant impact**, and no mitigation measures are required.

c) *For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?*

**No Impact.** The Project is located approximately seven (7) miles northeast of the Fresno Yosemite International Airport and is not within the Airport Influence Area, safety zones, noise, or airspace and overflight areas. Therefore, **no impact** would occur.

### 14. POPULATION AND HOUSING

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example through extension of roads or other infrastructure)? | | | X | |
| b. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? | | | X | |

**ENVIRONMENTAL SETTING**

The Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site's topography is generally flat and characterized somewhat with fruit orchards.

**DISCUSSION**

a) *Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example through extension of roads or other infrastructure)?*

**Less-Than-Significant Impact.** The Project would result in 266 single-family homes. The Project site has an existing General Plan Land Use designation of Medium High Density Residential which allows for a density range of 7.1 – 20.0 du/ac. Calculated with gross acres; the Project site would require a range of 262 to 738 dwelling units. The proposed density is 7.2 units per gross acre. Further, the Project includes residential use on a site that is planned for the type of use being proposed. Unplanned population growth is typically associated with providing new services in remote areas of the City or other infrastructure that was not previously identified in the General Plan. Although the Project would result in new housing units and population to the site, this growth was previously planned and anticipated under the 2014 General Plan. Thus, a **less-than-significant** impact would occur, and no mitigation measures are required.

b) *Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?*

**Less-Than-Significant Impact.** The Project site is developed with one single family residence that is currently occupied. While there is an existing occupied home on the site, the Project is not displacing a substantial number of people. Therefore, the Project would not result in the substantial displacement of existing people or housing and a **less-than-significant** impact would occur.

**15. PUBLIC SERVICES**

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the Project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: | | | | |
| a. Fire protection? | | | X | |
| b. Police protection? | | | X | |
| c. Schools? | | | X | |
| d. Parks? | | | X | |
| e. Other public facilities? | | | X | |

**ENVIRONMENTAL SETTING**

The Project would be served by the Clovis Fire Department, Clovis Police Department, with mutual aid from the City of Fresno, when needed. The Project site would also be within the Clovis Unified School District.

The nearest fire station is Fire Station #3, located approximately three (3) miles south of the site. The other closest fire station is Fire Station #5, located approximately six (6) miles to southeast of the site.

**DISCUSSION**

a) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for fire protection services?*

**Less-Than-Significant Impact.** Although the Project would result in 266 new residential units, the site is located adjacent to an area of the City that is already served by the Clovis Fire Department. Also, the site itself is in close proximity to Fire Station's #3 and #5, which would mean that response times should be able to be maintained during calls for service. As part of the entitlement process for the Project, the Clovis Fire Department will review the design and site layout to ensure adequate fire safety measures and site circulation are achieved. This would include placement of new fire hydrants in certain locations throughout the site, adequate drive widths for fire truck and emergency vehicle access, and the appropriate application of fire codes, such as installation of sprinkler systems, fire alarms, and smoke detectors. Overall, with the site's close proximity to numerous fire stations, construction that would meet the latest fire code standards, and review by the Clovis Fire Department, impacts related to effects on the performance of the Fire Department would be **less-than-significant** and no mitigation measures are required.

b) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for police protection services?*

**Less-Than-Significant Impact.** Although the Project would result in 266 new residential units, the site is located adjacent to an area of the City already served by the Clovis Police Department. The Clovis Police Department headquarters are located at 1233 Fifth Street, which is approximately five (5) miles from the site. As part of the entitlement process for the Project, the Clovis Police Department will review the design and site layout to ensure adequate safety measures are achieved. Consequently, a **less-than-significant** impact would occur and no mitigation measures are required.

c) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for schools?*

**Less-Than Significant Impact.** As part of the review process, Clovis Unified School District (CUSD) is provided the opportunity to comment and work closely with the City as development is proposed. As mentioned previously, the Project site was previously planned for residential development, as indicated in the 2014 Clovis General Plan. As such, the CUSD has been aware of the potential for this type of development at this location. As part of the process, the Project would be required to pay school fees which typically go towards the improvement and/or construction of new schools or expanding existing schools if and when needed, as determined by the CUSD. Therefore, because the Project is consistent with what was previously

planned for at this site in addition to payment of appropriate school fees set by the CUSD, a **less-than-significant** impact would occur and no mitigation measures are required.

d) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for parks?*

**Less-Than-Significant Impact.** Although the Project proposes one (1) ±33,000 square foot neighborhood park, this park would not cause significant environmental impacts in order to maintain acceptable service ratios, response times or other performance objectives for parks. Furthermore, the Project is required to request annexation to and provide a covenant for the Landscape Maintenance District. Consequently, a **less-than-significant** impact would occur and no mitigation measures are required.

e) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for other public facilities?*

**Less-Than-Significant Impact.** Although the Project would result in 266 new residential units, residential uses have been previously planned for in the 2014 Clovis General Plan in this area. Also, through the entitlement process, the Project would undergo review by several departments and agencies for compliance with appropriate regulations and policies. This could result in various impact fees that are intended to maintain and enhance public facilities as appropriate to be able to accommodate the Project. As such, payment of the typical development fees, as well as project review by the different department and agencies, would result in the Project having a **less-than-significant** impact to public facilities. No mitigation measures are required.

## 16. RECREATION

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? | | | X | |
| b. Does the project include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment? | | | X | |

**ENVIRONMENTAL SETTING**

The nearest existing recreational site is Dry Creek Trailhead, located at the corner of Shepherd and Sunnyside Avenues. A future community park is planned approximately 530 feet southeast of the Project site.

**DISCUSSION**

a) *Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?*

**Less-Than-Significant Impact.** As mentioned in the Population and Housing section of this Initial Study, the Project is of the type previously planned and accounted for in the 2014 Clovis General Plan. Although 266 new residential units would be constructed, therefore, adding new population to the area that may utilize parks within the surrounding area, this growth was planned for with regards to park usage throughout the city. Further, the Project itself would include landscaped and open space areas on-site for its residents, as well as a pocket park space within the neighborhood, thereby, providing areas of recreation within the site itself. The Project would also be required to comply with 2014 General Plan Policy 2.2 of the Open Space and Conservation Element which encourages the incorporation of on-site natural resources.

b) *Does the project include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?*

**Less-Than-Significant Impact.** The Project site itself would construct an on-site neighborhood park. The Project itself would not require the construction or expansion of new recreational facilities elsewhere that would have an adverse physical effect on the environment. The Project would also be required to contribute a proportionate share towards the acquisition and development of future parks in order for the City to maintain its adopted ratio of providing four (4) acres of parkland per 1,000 residents, as stated in Policy 1.1 in the Open Space and Conservation Element of the 2014 General Plan, and Section 3.4.03 of the CMC. As such, a **less-than-significant** impact would occur and no mitigation measures are required.

## 17. TRANSPORTATION

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities? | | | X | |
| b. Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)? | X | | | |
| c. Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? | | | X | |
| d. Result in inadequate emergency access? | | | X | |

**ENVIRONMENTAL SETTING**

The project is bound by N. Peach Avenue to the west, E. Behymer Avenue to the north, and N. Minnewawa Avenue to the east. The circulation network serving the site including internal site circulation will be constructed as part of the project.

According to the 2014 Clovis General Plan Circulation Diagram in the Circulation Element (Figure C-1 of the Circulation Element), North Peach Avenue is classified as a "Collector" street. Collectors generally intended to

provide for relatively short distance travel between and within neighborhoods and that serve longer through trips. East Behymer and North Minnewawa are classified as "Arterial" roads. An arterial road is a high-capacity road that connects different areas of the city and is a crucial part of the national transportation system. Arterial roads are designed to carry large amounts of traffic efficiently and minimize delays.

A Transportation Impact Analysis (TIA) was prepared by LSA in October of 2024 (included as Appendix E of this Initial Study). The information and analysis in the following sections is based in part on the results of the TIA.

**DISCUSSION**

a) *Would the project conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?*

**Less-Than-Significant Impact.** As mentioned above, the site is on land that was previously planned for residential use in the 2014 Clovis General Plan. As described in the Population and Housing section above, the Project will be consistent with the planned density. The 2024 Clovis General Plan considers level of service (LOS) D as the LOS standard vehicle traffic operations, except for roadway segments that are adopted in the City's General Plan EIR to operate at LOS E or F. At study intersections under the jurisdiction of the City of Clovis, a significant impact would occur at a signalized intersection when LOS falls below the target LOS of D with the addition of project traffic or when project increases the average delay at an intersection already operating at an unacceptable LOS.

The TIA studied six (6) intersections 1) Willow and Behymer Avenues, 2) Willow and Perrin Avenues, 3) Peach and Behymer Avenues, 4) Minnewawa and Behymer Avenues, 5) Minnewawa and Perrin Avenues, and 6) Minnewawa and Shepherd Avenues for existing conditions, existing-plus-project conditions, near term with project conditions, and cumulative conditions to the year 2046. Each scenario is based on the Projects a.m. and p.m. peak hour trips as determined in the TIA. According to the TIA, the Project would result in 186 trips in the a.m. peak hours of between 7:00 a.m. and 9:00 a.m. and 250 trips in the p.m. peak hours between 4:00 p.m. and 6:00 p.m., as well as a total of 2,508 daily vehicle trips. Per the TIA, with incorporation of improvements recommended for each scenario, all study intersections will operate at satisfactory LOS levels thus, the Project, will not conflict with the Circulation Element of the 2014 General Plan. Consequently, a **less-than-significant** impact would occur. No mitigation measures are required.

b) *Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?*

**Significant and Unavoidable Impact.** Senate Bill 743 (SB 743) requires that relevant CEQA analysis of transportation impacts be conducted using a metric known as vehicle miles traveled (VMT) instead of level of service (LOS). VMT measures how much actual auto travel (additional miles driven) a proposed project would create on California roads. If the proposed project adds excessive car travel onto our roads, the proposed project may cause a significant transportation impact. Per CEQA Guidelines Section 15064.3(b)(4) a lead agency has discretion to choose the most appropriate methodology to evaluate a project's VMT, including whether to express the change in absolute terms, per capita, per household or in any other measure. A lead agency may use models to estimate a project's VMT and may revise those estimates to reflect professional judgment based on substantial evidence. Any assumptions used to estimate VMT and any revisions to model outputs should be documented and explained in the environmental document prepared for the project.

On October 17, 2022, the City of Clovis adopted the Transportation Impact Analysis Guidelines (Guidelines), dated September 15, 2022. Consistent with CEQA Guidelines Section 15064.3, the City of Clovis has adopted thresholds of significance to determine when a project will have a significant transportation impact based on VMT. The City has developed screening criteria to streamline the analysis for projects that meet certain

criteria. A project will require a detailed VMT analysis unless it meets at least one of the City's five screening criteria[13]:

- Small Projects that generate less than 500 vehicle trips per day (i.e., Single-Family Residential developments with less than 53 dwelling units).
- Provision of affordable housing
- Local-serving retail projects with areas of 100,000 square feet and below
- Projects located in a High-Quality Transit Area (HQTA) as defined on page 8 of the City's Transportation Impact Analysis Guidelines
- Project located in low VMT area

The Project does not qualify for the screening criteria; therefore, shall be evaluated per Guidelines thresholds. The significance thresholds and specific VMT metrics are described on page 10 of the City's Transportation Impact Analysis Guidelines. Per the City's Transportation Impact Analysis Guidelines, the residential land use impact threshold is 14.1 VMT per capita. The Project will generate 14.9 VMT per capita which is greater than the threshold of 14.1 VMT per capita; therefore, the Project would create a significant transportation impact. Feasible mitigation measures must be identified to avoid or substantially reduce a significant impact under CEQA. Mitigation of VMT impacts typically requires changes in habits and behaviors of residents. Project design features that encourage mode shift from automobiles to transit or nonmotorized modes can potentially reduce project specific VMT. The potential VMT reduction was estimated using the California Air Pollution Control Officers Association's (CAPCOA) *"Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity – Designed for Local Governments, Communities, and Project Developers"* dated December 2021.

Although the Project would create a significant transportation impact, the project is consistent with the City's General Plan. During preparation of the 2014 General Plan Circulation Element Update, a Supplemental Environmental Impact Report was prepared, along with a statement of Overriding consideration, that discussed the potential environmental impacts and required mitigation measures to be implemented/followed by all future projects that are consistent with the General Plan. The project will be conditioned to implement and follow these measures.

The City adopted a Supplemental Environmental Impact Report (SEIR) for the 2014 General Plan Circulation Element Update on October 17, 2022. The SEIR evaluated potential land uses consistent with the General Plan and their associated VMT impacts. The SEIR finds that implementation of the 2014 General Plan may result in VMT metrics that are greater than the applicable thresholds. Mitigation measures include policies to reduce VMT. Because the City cannot demonstrate that the implementation of these policies would achieve VMT reductions to meet the VMT thresholds, the impacts would remain significant and unavoidable. Therefore, following approval of the SEIR, individual land use development projects that are consistent with the 2014 General Plan have the opportunity to tier their environmental review from the General Plan SEIR pursuant to section 15152 of the CEQA Guidelines. The SEIR has disclosed the VMT impacts of land use development consistent with the General Plan. Therefore, significant, and unavoidable VMT impacts associated with the General Plan have already been disclosed. Because the proposed Project is consistent with the 2014 General Plan, the Project's significant transportation impact does not require the preparation of a project specific EIR. Although the Project, has been determined to be consistent with the 2014 General Plan and is tiering from the SEIR, it would remain a **significant and unavoidable** impact.

13 Transportation Impact Analysis, LSA, October 2024, page 4.

c) *Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?*

**Less-Than-Significant Impact.** The Project would result in a significant impact if it would include features that would create a hazard such as a sharp curve in a new roadway or create a blind corner or result in sight distance issues from entryways. Through the entitlement process, the Project would undergo review by multiple City divisions, such as Planning and Engineering, to ensure that the site layout conforms to existing regulations, such as the CMC, and other applicable codes, such as the fire code and building code. During this review, the Project would need to make the necessary corrections to ensure that no hazardous design features would result from the Project. Further, the main roadway network (N. Peach, E. Behymer and N. Minnewawa Avenues) will be constructed to City roadway standards. Therefore, because the Project would undergo site plan and design review to ensure consistency and adherence to applicable design and site layout guidelines, a **less-than-significant** impact would occur, and no mitigation measures are required

d) *Would the project result in inadequate emergency access?*

**Less-Than-Significant Impact.** The Project would include three (3) ingress/egress access points to the proposed development from E. Behymer Avenue and one (1) ingress/egress access point from the N. Peach alignment. As part of the Project review, the Clovis Fire Department would review all plans to ensure adequate emergency access is provided. This review includes review for adequate roadway widths, turning radii, as well as adequate access to units and accessibility to water. Consequently, because the Project plans would be required by the CMC to be reviewed and approved by Clovis Fire Department and Police Department prior to construction, this impact would be **less-than-significant,** and no mitigation measures are required.

## 18. TRIBAL CULTURAL RESOURCES

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)? | | | | X |
| b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Section 5024.1 for the purposes of this paragraph, the lead agency shall consider the significance of the resource to a California Native American Tribe? | | X | | |

**ENVIRONMENTAL SETTING**

On September 25, 2014, Governor Jerry Brown signed Assembly Bill (AB52), which intends to protect a new class of recourse under CEQA. This new class is Tribal Cultural Resources and provides an avenue to identify Tribal Cultural resources through a consultation process. AB52 applies to all projects where a Notice of

Determination is filed. Furthermore, the consultation process is required to be complete prior to filing a Notice of Intent.

City staff conducted Native American Consultation in compliance with AB52. In compliance with AB52, invitations for consultation were mailed on July 1, 2024, which affords Native tribes thirty (30) days to respond and to request consultation. During this timeframe, no requests for consultations were received. Additionally, the Cultural Study prepared by Peak & Associates Inc. dated August 2024, included a records search from the CHRIS SSJVIC, which did not identify any tribal resources.

**DISCUSSION**

a) *Would the project cause a substantial adverse change to a listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?*

**No Impact.** See discussion under Section 5a.

b) *Would the project cause a substantial adverse change to a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Section 5024.1 for the purposes of this paragraph, the lead agency shall consider the significance of the resource to a California Native American Tribe?*

**Less-Than-Significant Impact With Mitigation.** As mentioned above, the City invited three (3) Native American tribes to consult on the Project under AB 52, and no tribes requested consultation within the 30-day period. The Project site is primarily undeveloped and would require trenching and ground-disturbing activities during construction for the installation of utility infrastructure needed to serve the Project. Although no cultural resources were identified at the site, the potential remains that cultural resources could be inadvertently discovered during ground-disturbing activities. However, implementation of Mitigation Measures TCR-1 and TCR-2 below would reduce potential significant impacts and ensure protection in the event of accidental discovery of any cultural resources. With Mitigation Measure TCR-1 and TCR-2, impacts would be **less-than-significant with mitigation**.

Mitigation Measure TCR-1: If cultural or archaeological materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, meeting the Secretary of the Interior's Professional Qualification Standards for prehistoric and historic archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.

If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.

If a potentially eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met.

Mitigation Measure TCR-2: If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code. The specific protocol, guidelines, and channels of communication outlined by the Native American Heritage Commission, in accordance with Section 7050.5 of the Health and Safety Code, Section 5097.98 of the Public Resources Code (Chapter 1492, Statutes of 1982, Senate Bill 297), and Senate Bill 447 (Chapter 44, Statutes of 1987), shall be followed. Section 7050.5(c) shall guide the potential Native American involvement, in the event of discovery of human remains, at the direction of the County coroner. All reports, correspondence, and determinations regarding the discovery of human remains on the project site shall be submitted to the Lead Agency.

## 19. UTILITIES AND SERVICE SYSTEMS

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects? | | | X | |
| b. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years? | | | X | |
| c. Result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments? | | | X | |
| d. Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals? | | | X | |
| e. Comply with federal, state, and local management reduction statutes and regulations related to solid waste? | | | X | |

**ENVIRONMENTAL SETTING**

The electricity and natural gas services in the City of Clovis are provided by PG&E. AT&T/SBC provides telephone service to the City.

The City's water supply sources include groundwater drawn from the Kings Sub-basin of the San Joaquin Valley Groundwater Basin and surface water from the FID. Surface water is treated at the City of Clovis Surface Water Treatment Facility.

The City of Clovis provides sewer collection service to its residents and businesses. Treatment of wastewater occurs at the Fresno-Clovis Regional Wastewater Treatment Plant (RWTP). The Fresno-Clovis RWTP is

operated and maintained by the City of Fresno and operates under a waste discharge requirement issued by the Central Valley Regional Water Quality Control Board. Additionally, the City has completed a 2.8 mgd wastewater treatment/water reuse facility, which will service the City's new growth areas.

The FMFCD has the responsibility for storm water management within the Fresno-Clovis metropolitan area of the Project site. Stormwater runoff that is generated by land development is controlled through a system of pipelines and storm drainage detention basins.

**DISCUSSION**

a) *Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?*

**Less-Than-Significant Impact.** The Project includes construction of 266 residential units. As mentioned above, the site is a use previously accounted for in the 2014 Clovis General Plan. Further, as part of the review process for the Project, the wastewater impacts will be evaluated by the City Engineer to ensure compliance with the City's Waste Water Master Plan, as well as FMFCD, so that the Project would not exceed wastewater treatment requirements such that a new facility would be required nor would the existing treatment facility need to be expanded. While the Project would introduce new units at this site, the type of development would be consistent with the land use designation and Zone District. Upon review and approval by the City Engineer, the Project would result in a **less-than-significant** impact. No mitigation measures are required.

b) *Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?*

**Less-Than-Significant Impact.** The Project is of the type of development previously accounted for the in 2014 Clovis General Plan. The Project will be primarily served through surface water and will be required to purchase water allocation rights through Fresno Irrigation District. Therefore, the Project is anticipated to be adequately served by City water. Further, the Project would comply with current Green Building Codes, as well as the water efficient landscape policies with regards to water conserving features. Lastly, the Project would be required to comply several water conserving policies, such as Policy 3.4 and 3.5 of the Open Space and Conservation Element. Overall, a **less-than-significant** impact would occur with no mitigation measures

c) *Would the project result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?*

**Less-Than-Significant Impact.** Because the Project is of the type previously planned and accounted for in the 2014 Clovis General Plan, it is not likely that the Project would result in a demand that would exceed the capacity of the wastewater treatment facility. Further, the Project is reviewed by the appropriate departments and agencies to ensure compliance and adequate capacity with regard to infrastructure, such as the ability to provide adequate wastewater treatment. Consequently, the impact would be **less than significant**. No mitigation measures are required.

d) *Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?*

**Less-Than-Significant Impact.** The Project would introduce new solid waste throughout construction and operation of the Project. However, the Project would be required to comply with Chapter 6.3.1, Recycling and Diversion of Construction and Demolition Debris, of the CMC during construction. This section of the CMC

requires that a minimum of fifty percent (50%) of waste tonnage from a project be diverted from disposal, and that all new residential (and commercial) construction within the City shall submit and obtain approval for a waste management plan prior to construction activities. Compliance with these measures would ensure that the Project does not result in a significant impact during the construction phase of the Project. Further, compliance with policies in the General Plan for the reduction and recycling of solid waste would serve to reduce impacts of solid waste by promoting and encouraging the recycling of materials. Lastly, according to the California Department of Resources Recycling and Recovery (CalRecycle), the City of Clovis has exceeded their target per resident disposal rate of 4.7 pounds per day per resident, meaning that Clovis residents are actually producing less solid waste than the target set by the State.[14] Consequently, a **less-than-significant** impact would occur. No mitigation measures are required.

e) *Would the project comply with federal, state, and local management reduction statutes and regulations related to solid waste?*

**Less-Than-Significant.** See discussion 19d above.

**20. WILDFIRE**

| **If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:** | **Potentially Significant Impact** | **Less Than Significant With Mitigation Incorporated** | **Less Than Significant Impact** | **No Impact** |
|---|---|---|---|---|
| a. Substantially impair an adopted emergency response plan or emergency evacuation plan? | | | X | |
| b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire? | | | X | |
| c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment? | | | X | |
| d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes? | | | X | |

**ENVIRONMENTAL SETTING**

The Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site's topography is generally flat and characterized somewhat with fruit orchards.

14 Calrecycle, City of Clovis, https://www2.calrecycle.ca.gov/LGCentral/DiversionProgram/JurisdictionDiversionPost2006, accessed September 30, 2024.

**DISCUSSION**

a) *Would the project substantially impair an adopted emergency response plan or emergency evacuation plan?*

**Less-Than-Significant Impact.** The Project is located at a site that is surrounded by primarily agricultural uses designated for future residential development at varying densities. Although the Project could result in temporary traffic detouring or closures during buildout, these delays would be temporary and would be coordinated with the City Engineering Division and other departments to ensure safe access to and from the area is maintained. Further, the site itself would be reviewed by City departments to ensure adequate site access and circulation is provided in the event of an emergency. Overall, a **less-than-significant** impact would occur with no mitigation measures.

b) *Would the project, due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?*

**Less-Than-Significant Impact.** The general vicinity of the site is flat, therefore, is not of the type of topography nor in a location likely to exacerbate wildfire risks. Additionally, the Project site is located in an area mapped by CAL FIRE as "unzoned" per the Fire Hazard Severity Zone Viewer, indicating the area is not located in an area within State Responsibility Areas into Fire Hazard Severity Zones. Further, the Project would be required to comply with the latest fire codes and would be required to include sprinklers on the interior of the homes and require installation of several hydrants throughout the site. Lastly, the site plans would undergo review by the Clovis Fire Department to ensure that all fire safety regulations are met. Therefore, a **less-than-significant** impact would occur with no mitigation measures.

c) *Would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?*

**Less-Than-Significant Impact.** As a new development, installation of a private roadway network, water lines, and power lines would be required; however, these utilities and infrastructure are typical of residential development and would be constructed to standards of the respective agencies and departments which oversee them, as well as be required to comply all necessary plan review and permitting requirements of such departments and agencies. As such, a **less-than-significant** impact would occur. No mitigation measures are required.

d) *Would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?*

**Less-Than-Significant Impact.** The City of Clovis has generally flat topography, and the site itself is in an area that is not in close proximity to hillsides that would expose people or structures to significant risks associates with downstream flooding or landslides as a result of runoff or post-fire slope instability. As such, a **less-than-significant** impact would occur.

## 21. MANDATORY FINDINGS OF SIGNIFICANCE

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Does the project have the potential to | | | X | |

| | | | | |
|---|---|---|---|---|
| substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory? | | | | |
| b. Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)? | | | X | |
| c. Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly? | | | X | |

**ENVIRONMENTAL SETTING**

The Project site is located within the City of Clovis' sphere of influence on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site's topography is generally flat and characterized somewhat with fruit orchards.

**DISCUSSION**

a) *Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?*

**Less-Than-Significant Impact.** As discussed throughout the Initial Study, the Project would result in a significant and unavoidable VMT impact. However, during preparation of the General Plan, an EIR was prepared, along with a Statement of Overriding Consideration, that discussed the potential environmental impacts and required mitigation measures to be implemented/followed by all future projects that are consistent with the General Plan. The proposed project would be conditioned to implement and follow these measures. Therefore, though the proposed project would have a significant and unavoidable transportation impact under CEQA, no further mitigation measure would be required for the project related to VMT. Outside of transportation, the project will not have any impacts on fish, wildlife, plants, or animal communities. Therefore, the Project would have a **less-than-significant** impact as it would not substantially degrade the quality of the environment.

b) *Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?*

**Less-Than-Significant Impact.** The Project includes mitigation measures in certain topic areas identified throughout this Initial Study, which would reduce potential impacts to a less-than-significant level. None of these impacts would be cumulatively considerable since most are either temporary impacts from construction or site specific. With the exception of air quality that is generally considered measurable cumulatively, the Project was found to have a significant and unavoidable impact as discussed in the GHG section of this Initial Study. As such, this Project would be required to comply with those same regulations, ensuring adequate mitigation as development occurs. Lastly, while the Project would introduce 266 new residential units to an existing vacant site, the type of use was previously accounted for in the 2014 Clovis General Plan buildout. Thus, a **less-than-significant** impact would occur with no mitigation measures.

c) *Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?*

**Less-Than-Significant Impact.** As discussed throughout the document, although the Project would result in an increased VMT impact, the integration of mitigation measures as prescribed for all projects consistent with the General Plan will be required. Thus ensuring the Project will not affect human beings either directly or indirectly that would result in an impact that could not be mitigated to a less-than-significant level. Therefore, a **less-than-significant** impact would occur. No migration measures are required.

## I. Report Preparation

**LEAD AGENCY**

***Marissa Jensen, MA***
Assistant Planner
City of Clovis
Planning & Development Services

**TECHNICAL STUDIES**

***Air Quality and Greenhouse Gas Analysis Memorandum***
Peach and Behymer Residential Project
LSA Associates, Inc.

***Biological Resources Assessment***
Peach and Behymer Residential Project
LSA Associates, Inc.

***Noise and Vibration Impact Analysis***
De Young Peach and Behymer Residential Project
LSA Associates, Inc.

***Cultural Resource Assessment***
DeYoung Development, City of Clovis
Melinda A. Peak
Peak & Associates, Inc.

***Transportation Impact Analysis***
De Young Properties Peach and Behymer Project
LSA Associates, Inc.

***California Agricultural LESA Worksheets***
De Young Properties Peach and Behymer Project
LSA Associates, Inc.

**MITIGATION MONITORING AND REPORTING PROGRAM**
**TM6482**

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| ***Agriculture and Forestry Resources*** | | | | |
| AGR-1 | The Project applicant shall prepare or fund an agricultural resource evaluation prior to project approval. The resource evaluation shall use generally accepted methodologies (such as the Land Evaluation and Site Assessment Model) to identify the potentially significant impact of the loss of agricultural land. If the loss of agricultural land is determined to be a potentially significant impact, the resource evaluation shall consider the economic viability of future agricultural use of the property. If the agricultural resource is considered significant and future agricultural use is considered economically viable, the conversion will be deemed significant. The City shall require mitigation by one of the following methods:<br>• Mitigation at a 1:1 ration of converted to preserved acreage through a regional conservation easement, or payment of its valuation equivalent if a fee mitigation program is established. If 1:1 mitigation is determined to be economically infeasible, based upon all of the evidence, the ratio may be reduced to an economically feasible ratio or no further mitigation shall be required. This determination shall be made by the City's Director of Planning and Development | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | Services based upon substantial evidence in the record; or<br><br>• Other potential mitigation which achieves the same mitigating effect as the measures identified above, consistent with the CEQA Statutes and Guidelines. This determination shall be made by the City's Director of Planning and Development Services based upon substantial evidence in the record. | | | |
| AGR-2 | Pursuant to Clovis Municipal Code Section 9.40.170 and the California Civil Code Section 3482.5, prior to approval of building occupancy permits the Project developer shall provide residents of the Project site Right-To-Farm notifications. The Right-To-Farm notification would advise future occupants of the Project site that they are residing adjacent to agricultural land that has been active for three or more years and that they should expect continued activities associated with agricultural production. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| ***Air Quality*** | | | | |
| AIR-1 | Consistent with San Joaquin Valley Air Pollution Control District (SJVAPCD) Regulation VIII (Fugitive PM10 Prohibitions), the following controls are required to be included as specifications for the proposed project and implemented at the construction site: | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | • All disturbed areas, including storage piles, which are not being actively utilized for construction purposes, shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant or covered with a tarp or other suitable cover or vegetative ground cover.<br><br>• All on-site unpaved roads and off-site unpaved access roads shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant.<br><br>• All land clearing, grubbing, scraping, excavation, land leveling, grading, cut and fill, and demolition activities shall be effectively controlled of fugitive dust emissions utilizing application of water or by presoaking.<br><br>• When materials are transported off site, all material shall be covered, or effectively wetted to limit visible dust emissions, and at least 6 inches of freeboard space from the top of the container shall be maintained.<br><br>• All operations shall limit or expeditiously remove the accumulation of mud or dirt from adjacent public streets at the end of each workday. (The use of dry rotary brushes is expressly prohibited except where preceded or accompanied by sufficient wetting to limit | | | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | the visible dust emissions. Use of blower devices is expressly forbidden).<br><br>• Following the addition of materials to, or the removal of materials from, the surface of outdoor storage piles, said piles shall be effectively stabilized of fugitive dust emissions utilizing sufficient water or chemical stabilizer/suppressant. | | | |
| ***Biological Resources*** | | | | |
| BIO-1 | **Pre-Activity Surveys for Swainson's Hawk Nests.** If Project activities must occur during the nesting season (February 15 to August 31), pre-activity surveys shall be conducted for Swainson's hawk nests within 14 days prior to the start of construction. The surveys would be conducted within the Project site plus a 0.5-mile buffer. The survey shall be conducted in accordance with the methodology outlined in existing protocols. Note that Sawinson's hawks may establish a nest at any time from February through June; multiple Swainson's hawks nest surveys may be necessary in one season at the direction of a qualified biologist, depending on the timing of Project construction. If no Swainson's hawk nests are found, no further action is required. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-2 | **Swainson's Hawk Nest Avoidance.** If an active Swainson's hawk nest is discovered at any time within 0.5 mile of active construction, a qualified | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and initials) |
|---|---|---|---|---|
| | biologist shall complete an assessment of the potential for current construction activities to impact the nest. The assessment shall consider the type of construction activities to impact the nest. The assessment shall consider the type of construction activities, the location of construction relative to the nest, the visibility of construction activities from the nest location, and other existing disturbances in the area that are not related to construction activities of this Project. Based on this assessment, the biologist shall determine if construction activities can proceed and if nest monitoring will be required. At a minimum, construction activities shall not occur within 100 feet of an active nest and shall require monitoring if within 500 feet of an active nest. These buffers may need to increase depending on the sensitivity of the nest location. | | | |
| BIO-3 | **Pre-Activity Nesting Bird Surveys.** If Project activities must occur during the nesting season (February 15 to August 31), pre-activity nesting bird surveys shall be conducted no more than 7 days prior to the start of construction at the construction site plus a 250-foot buffer for songbirds and a 500-foot buffer for raptors (other than Swainson's hawk). If no active nests are found, no further action is required; however, note that nests may become active at any time throughout the summer, including when construction activities are occurring. If active nests are found during the survey or at any time during | | | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | Project construction, an avoidance buffer ranging from 50 feet to 350 feet shall be required, as determined by a qualified biologist. The avoidance buffer shall remain in place until the biologist has determined that the young are no longer reliant on the nest. Work may occur within the avoidance buffer under the approval and guidance of the biologist. The biologist shall have the ability to stop construction if nesting adults show signs of distress. | | | |
| ***Cultural Resources*** | | | | |
| CULT-1 | If archaeological or tribal resources or materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.<br><br>If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation. | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | If a potentially-eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met. | | | |
| CULT-2 | If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code and Project shall follow the procedures and protocols set for un CEQA Guidelines Section 15064.4(e)(1). If human remains are identified to be those of Native American, California Health and Safety Code 7050.5 requires the County coroner notify the NAHC within 24 hours of discovery. All reports, correspondence, and determinations regarding the discovery of human remains on the project site shall be submitted to the Lead Agency. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| ***Geological Resources*** | | | | |
| GEO-1 | If prehistoric or historic-era cultural materials are encountered during construction activities, all work | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | in the immediate vicinity of the find shall halt until a qualified professional archaeologist and/or paleontologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.<br><br>If the qualified professional determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.<br><br>If a potentially-eligible resource is encountered, then the qualified professional archaeologist and/or paleontologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met. | | | |
| ***Tribal Cultural Resources*** | | | | |
| TCR-1 | If archaeological or tribal resources or materials are encountered during construction activities, all work | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | in the immediate vicinity of the find shall halt until a qualified professional archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.<br><br>If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.<br><br>If a potentially-eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met. | | | |
| TCR-2 | If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | and Safety Code and Project shall follow the procedures and protocols set for un CEQA Guldelines Section 15064.4(e)(1). If human remains are identified to be those of Native American, California Health and Safety Code 7050.5 requires the County coroner notify the NAHC within 24 hours of discovery. All reports, correspondence, and determinations regarding the discovery of human remains on the project site shall be submitted to the Lead Agency. | | | |

# AIR QUALITY AND GREENHOUSE GAS IMPACT ANALYSIS

## PEACH AND BEHYMER RESIDENTIAL PROJECT

## CITY OF CLOVIS, CALIFORNIA

LSA

October 2024

# AIR QUALITY AND GREENHOUSE GAS IMPACT ANALYSIS

## PEACH AND BEHYMER RESIDENTIAL PROJECT

## CITY OF CLOVIS, CALIFORNIA

Submitted to:

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October 2024

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# LIST OF ABBREVIATIONS AND ACRONYMS

| | |
|---|---|
| °C | degrees Celsius |
| °F | degrees Fahrenheit |
| µg/m3 | micrograms per cubic meter |
| AAQS | ambient air quality standards |
| AB | Assembly Bill |
| APN | Assessor's Parcel Number |
| APS | Alternative Planning Strategy |
| AQMP | Air Quality Management Plan |
| BPS | best performance standard |
| CAA | Federal Clean Air Act |
| CAAQS | California Ambient Air Quality Standards |
| CalEEMod | California Emissions Estimator Model |
| CALGreen Code | California Green Building Standards Code |
| CAP | Climate Action Plan |
| CAPCOA | California Air Pollution Control Officers Association |
| CARB | California Air Resources Board |
| CARB Handbook | California Air Resources Board's Air Quality and Land Use Handbook |
| CCAA | California Clean Air Act |
| CCAP | Climate Change Action Plan |
| CEQA | California Environmental Quality Act |
| $CH_4$ | methane |
| City | City of Clovis |

| | |
|---|---|
| CO | carbon monoxide |
| $CO_2$ | carbon dioxide |
| $CO_2e$ | CO2 equivalents |
| DPM | diesel particulate matter |
| EO | Executive Order |
| EV | electric vehicles |
| Fresno COG | Fresno Council of Governments |
| GAMAQI | Guidance for Assessing and Mitigating Air Quality Impacts |
| GHG | greenhouse gas |
| GHGRx | Greenhouse Gas Reduction Exchange |
| GWP | Global Warming Potential |
| HFC | hydrofluorocarbon |
| HI | Hazard Index |
| HRA | Health Risk Assessment |
| HVAC | heating, ventilation, and air conditioning |
| IPCC | Intergovernmental Panel on Climate Change |
| ISR | Indirect Source Review |
| LED | light-emitting diode |
| LESA | Land Evaluation and Site Assessment |
| MEI | maximum exposed individual |
| MERV | minimum efficiency reporting value |
| MMT | million metric tons |
| MPO | Metropolitan Planning Organization |
| MT | metric tons |

| | |
|---|---|
| $N_2O$ | nitrous oxide |
| NAAQS | National Ambient Air Quality Standards |
| $NO_2$ | nitrogen dioxide |
| NOA | naturally occurring asbestos |
| $NO_X$ | nitrogen oxides |
| $O_3$ | ozone |
| OEHHA | California Office of Environmental Health Hazard Assessment |
| Pb | lead |
| PFC | perfluorocarbon |
| PM | particulate matter |
| $PM_{10}$ | particulate matter that is 10 microns or less in diameter |
| $PM_{2.5}$ | particulate matter that is 2.5 microns or less in diameter |
| project | Peach and Behymer Residential Project |
| RCM | Regulatory Compliance Measure |
| ROC | reactive organic compound |
| ROG | reactive organic gas |
| RPS | Renewables Portfolio Standard |
| RTP | Regional Transportation Plan |
| SCS | Sustainable Communities Strategy |
| $SF_6$ | sulfur hexafluoride |
| SJVAPCD | San Joaquin Valley Air Pollution Control District |
| $SO_2$ | sulfur dioxide |
| TAC | toxic air contaminant |
| TIA | Transportation Impact Analysis |

| | |
|---|---|
| UNFCCC | United Nations Framework Convention on Climate Change |
| USEPA | United States Environmental Protection Agency |
| VMT | vehicle miles traveled |
| VOC | volatile organic compound |

# INTRODUCTION

This Air Quality and Greenhouse Gas (GHG) Impact Analysis has been prepared to evaluate the potential air quality and GHG emissions impacts associated with the Peach and Behymer Residential Project (project) in unincorporated Fresno County, California and proposed to be annexed into the City of Clovis. This analysis was prepared using methods and assumptions recommended in the San Joaquin Valley Air Pollution Control District's (SJVAPCD) *Guidance for Assessing and Mitigating Air Quality Impacts* (GAMAQI).[1] This analysis includes a description of the existing regulatory framework, an assessment of project construction and operation period emissions, and an assessment of GHG emissions and energy impacts resulting from the proposed project.

## PROJECT LOCATION AND DESCRIPTION

The approximately 37-acre project site is located southeast of the intersection of East Behymer Avenue and North Peach Avenue Assessor's Parcel Numbers (APNs) 556-010-28 and 556-01-029, in unincorporated Fresno County. The project site is currently primarily planted with orchards and contains two existing residential units that would be demolished as part of the project. Figure 1 shows the project location, and Figure 2 shows the project's site plan.

The proposed project is located within City's sphere of influence (SOI) and within the northwest urban center growth area. The proposed project would be annexed into the City of Clovis and would include the construction of a 266-unit single-family residential development. The proposed project would include approximately 0.84 acre of park space. The project is consistent with the City's General Plan. Based on the project's Transportation Impact Analysis (TIA), the proposed project is estimated to generate 2,508 average daily trips.[2] The proposed project would comply with the 2022 California Green Building Standards Code (CALGreen Code) building measures. In addition, based on information provided by the Project Applicant, the proposed project would be all-electric and is anticipated to include the following sustainable features[3]:

- Installation of ENERGY STAR dishwashers, bathroom exhaust fans, water heaters, and windows;
- Installation of high-efficiency heating, ventilation, and air conditioning (HVAC) systems and programmable thermostats;
- Installation of solar on each residence per CALGreen Code requirements;
- Installation of a breaker and wiring for electric vehicles (EV) at each residence;
- Installation of cool roof tiles and high-performance, formaldehyde-free insulation;

1 San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. *Guidance for Assessing and Mitigating Air Quality Impacts*. March 19. Website: www.valleyair.org/transportation/ceqa_idx.htm (accessed June 2024).
2 LSA. 2024. *De Young Properties Peach and Behymer Project Transportation Impact Analysis.* August.
3 De Young Properties, 2024. *De Young EnergySmart Home Features.* Website: https://deyoungproperties.com/smart-home/#green-smart (accessed June 2024).

- Installation of minimum efficiency reporting value (MERV)-8 filters;
- Installation of 100 percent light-emitting diode (LED) lighting;
- Use of drip irrigation;
- Installation of low-flow water fixtures;
- Use of low volatile organic compound (VOC) paints;
- Recycle up to 90 percent of construction waste; and
- Independent inspections at random for energy-efficiency verification.

Construction activities for the project would include demolition, site preparation, grading, building construction, paving, and architectural coating. Construction of the proposed project is anticipated to begin in 2024. The proposed project would not require the import or export of soil but would include the demolition of approximately 6,500 square feet of existing buildings. Grading, site preparation, and building activities would involve the use of standard earthmoving equipment such as large excavators, cranes, and other related equipment.

## EXISTING LAND USES IN THE PROJECT AREA

For the purposes of this analysis, sensitive receptors are areas of the population that have an increased sensitivity to air pollution or environmental contaminants. Sensitive receptor locations include residences, schools, daycare centers, hospitals, parks, and similar uses that are sensitive to air quality. Impacts on sensitive receptors are of particular concern because those receptors are the population most vulnerable to the effects of air pollution.

The project site is surrounded primarily by agricultural uses with some residential and commercial uses. The areas adjacent to the project site include the following uses:

- **North:** Existing agricultural uses and a few single-family residences opposite East Behymer Avenue;
- **East:** Existing agricultural uses and a single-family residence at the southeast corner of the project site;
- **South:** Existing agricultural uses and a single-family residence at the southeast corner of the project site; and
- **West:** Existing agricultural uses, vacant land, and a few single-family residences.

The closest sensitive receptors to the project site include single-family residences located approximately 75 feet west of the project site and 100 feet north of the project site.

**Figure 1: Regional Project Location**

**Figure 2: Project Site**

# BACKGROUND

This section provides current background information on air pollutants and their health effects. It also provides current regulatory background information, including information from the California Air Resources Board's (CARB) Air Quality and Land Use Handbook[4] (CARB Handbook), a description of the general health risks of toxics, and the significance criteria for project evaluation.

## AIR POLLUTANTS AND HEALTH EFFECTS

Both State and federal governments have established health-based ambient air quality standards (California Ambient Air Quality Standards [CAAQS] and National Ambient Air Quality Standards [NAAQS], respectively) for six criteria air pollutants:[5] carbon monoxide (CO), ozone ($O_3$), nitrogen dioxide ($NO_2$), sulfur dioxide ($SO_2$), lead (Pb), and suspended particulate matter (PM). In addition, the State has set standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety. Long-term exposure to elevated levels of criteria pollutants may result in adverse health effects. However, emission thresholds established by an air district are used to manage total regional emissions within an air basin based on the air basin's attainment status for criteria pollutants. These emission thresholds were established for individual projects that would contribute to regional emissions and pollutant concentrations and could adversely affect or delay the projected attainment target year for certain criteria pollutants.

Because of the conservative nature of the thresholds and the basin-wide context of individual project emissions, there is no known direct correlation between a single project and localized air quality-related health effects. One individual project that generates emissions exceeding a threshold does not necessarily result in adverse health effects for residents in the project vicinity. This condition is especially true when the criteria pollutants exceeding thresholds are those with regional effects, such as ozone precursors like nitrogen oxides ($NO_X$) and VOCs.

Occupants of facilities such as schools, daycare centers, parks and playgrounds, hospitals, and nursing and convalescent homes are considered to be more sensitive than the general public to air pollutants because these population groups have increased susceptibility to respiratory disease. Persons engaged in strenuous outdoor work or exercise also have increased sensitivity to poor air quality. Residential areas are considered more sensitive to air quality conditions, compared to commercial and industrial areas, because people generally spend longer periods of time at their residences, with greater associated exposure to ambient air quality conditions. Recreational uses are also considered sensitive compared to commercial and industrial uses due to greater exposure to ambient air quality conditions associated with exercise.

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4 California Air Resources Board (CARB). 2005. *Air Quality and Land Use Handbook: A Community Health Perspective.* April.

5 Criteria pollutants are defined as those pollutants for which the federal and State governments have established ambient air quality standards, or criteria, for outdoor concentrations in order to protect public health.

### Ozone

Rather than being directly emitted, $O_3$ (smog) is formed by photochemical reactions between $NO_X$ and VOCs. $O_3$ is a pungent, colorless gas. Elevated ozone concentrations result in reduced lung function, particularly during vigorous physical activity. This health problem is particularly acute in sensitive receptors such as the sick, elderly, and young children. $O_3$ levels peak during the summer and early fall months.

### Carbon Monoxide

CO is formed by the incomplete combustion of fossil fuels, almost entirely from automobiles. It is a colorless, odorless gas that can cause dizziness, fatigue, and impairments to central nervous system functions. CO passes through the lungs into the bloodstream, where it interferes with the transfer of oxygen to body tissues.

### Particulate Matter

PM is the term used for a mixture of solid particles and liquid droplets found in the air. Coarse particles are those that are 10 microns or less in diameter ($PM_{10}$). Fine, suspended particulate matter with an aerodynamic diameter of 2.5 microns or less ($PM_{2.5}$), is not readily filtered out by the lungs. Nitrates, sulfates, dust, and combustion particulates are major components of $PM_{10}$ and $PM_{2.5}$. These small particles can be directly emitted into the atmosphere as byproducts of fuel combustion; through abrasion, such as tire or brake lining wear; or through fugitive dust (wind or mechanical erosion of soil). They can also be formed in the atmosphere through chemical reactions. Particulates may transport carcinogens and other toxic compounds that adhere to the particle surfaces and can enter the human body through the lungs.

### Nitrogen Dioxide

$NO_2$ is a reddish-brown gas that is a byproduct of combustion processes. Automobiles and industrial operations are the main sources of $NO_2$. Aside from its contribution to ozone formation, $NO_2$ also contributes to other pollution problems, including a high concentration of fine particulate matter, poor visibility, and acid deposition. $NO_2$ may be visible as a coloring component on high pollution days, especially in conjunction with high ozone levels. $NO_2$ decreases lung function and may reduce resistance to infection.

### Sulfur Dioxide

$SO_2$ is a colorless, irritating gas formed primarily from incomplete combustion of fuels containing sulfur. Industrial facilities also contribute to gaseous $SO_2$ levels in the region. $SO_2$ irritates the respiratory tract, can injure lung tissue when combined with fine particulate matter, and reduces visibility and the level of sunlight.

### Lead

Leaded gasoline (phased out in the United States beginning in 1973), paint (on older houses and cars), smelters (metal refineries), and the manufacture of lead storage batteries have been the primary sources of lead released into the atmosphere. Lead has multiple adverse neurotoxic health effects, and children are at special risk. Some lead-containing chemicals cause cancer in animals.

Lead levels in the air have decreased substantially since leaded gasoline was eliminated. Ambient lead concentrations are only monitored on an as-warranted, site-specific basis in California. On October 15, 2008, the United States Environmental Protection Agency (USEPA) strengthened the NAAQS for lead by lowering it from 1.5 to 0.15 micrograms per cubic meter ($\mu g/m^3$). The USEPA revised the monitoring requirements for lead in December 2010. These requirements focus on airports and large urban areas, resulting in an increase in 76 monitors nationally.

### Volatile Organic Compounds

VOCs (also known as reactive organic gases [ROGs] and reactive organic compounds [ROCs]) are formed from the combustion of fuels and the evaporation of organic solvents. VOCs are not defined as criteria pollutants, however, because VOCs accumulate in the atmosphere more quickly during the winter, when sunlight is limited and photochemical reactions are slower, they are a prime component of the photochemical smog reaction. There are no attainment designations for VOCs.

### Toxic Air Contaminants

In addition to the criteria pollutants discussed above, toxic air contaminants (TACs) are another group of pollutants of concern. TACs are injurious in small quantities and are regulated by the USEPA and the CARB. Some examples of TACs include benzene, butadiene, formaldehyde, and hydrogen sulfide. The identification, regulation, and monitoring of TACs is relatively recent compared to that for criteria pollutants.

TACs do not have ambient air quality standards (AAQS), but are regulated by the USEPA, the CARB, and the SJVAPCD. In 1998, the CARB identified particulate matter from diesel-fueled engines as a TAC. The CARB has completed a risk management process that identified potential cancer risks for a range of activities using diesel-fueled engines.[6] High-volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic (e.g., distribution centers and truck stops) were identified as posing the highest risk to adjacent receptors. Other facilities associated with increased risk include warehouse distribution centers, large retail or industrial facilities, high-volume transit centers, and schools with a high volume of bus traffic. Health risks from TACs are a function of both concentration and duration of exposure.

Unlike TACs emitted from industrial and other stationary sources noted above, most diesel particulate matter (DPM) is emitted from mobile sources—primarily "off-road" sources such as construction and mining equipment, agricultural equipment, and truck-mounted refrigeration units, as well as "on-road" sources such as trucks and buses traveling on freeways and local roadways.

Although not specifically monitored, recent studies indicate that exposure to DPM may contribute significantly to a cancer risk (a risk of approximately 500 to 700 in 1,000,000) that is greater than all other measured TACs combined.[7] The technology for reducing DPM emissions from heavy-duty trucks is well established, and both State and federal agencies are moving aggressively to regulate engines and emission control systems to reduce and remediate diesel emissions. The CARB anticipated that by

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6 CARB. 2000. Stationary Source Division and Mobile Source Control Division. *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles.* October.

7 Ibid.

2020, average statewide DPM concentrations will decrease by 85 percent from levels in 2000 with full implementation of the CARB's Diesel Risk Reduction Plan,[8] meaning that the statewide health risk from DPM is expected to decrease from 540 cancer cases in 1,000,000 to 21.5 cancer cases in 1,000,000. The CARB 2000 Diesel Risk Reduction Plan is still the most recent version and has not been updated.

Table A summarizes the sources and health effects of air pollutants discussed in this section. Table B presents a summary of CAAQS and NAAQS.

## Table A: Sources and Health Effects of Air Pollutants

| Pollutants | Sources | Primary Effects |
|---|---|---|
| Carbon Monoxide (CO) | • Incomplete combustion of fuels and other carbon-containing substances, such as motor exhaust<br>• Natural events, such as decomposition of organic matter | • Reduced tolerance for exercise<br>• Impairment of mental function<br>• Impairment of fetal development<br>• Death at high levels of exposure<br>• Aggravation of some heart diseases (angina) |
| Nitrogen Dioxide ($NO_2$) | • Motor vehicle exhaust<br>• High temperature stationary combustion<br>• Atmospheric reactions | • Aggravation of respiratory illness<br>• Reduced visibility<br>• Reduced plant growth<br>• Formation of acid rain |
| Ozone ($O_3$) | • Atmospheric reaction of organic gases with nitrogen oxides in sunlight | • Aggravation of respiratory and cardiovascular diseases<br>• Irritation of eyes<br>• Impairment of cardiopulmonary function<br>• Plant leaf injury |
| Lead (Pb) | • Contaminated soil | • Impairment of blood functions and nerve construction<br>• Behavioral and hearing problems in children |
| Suspended Particulate Matter ($PM_{2.5}$ and $PM_{10}$) | • Stationary combustion of solid fuels<br>• Construction activities<br>• Industrial processes<br>• Atmospheric chemical reactions | • Reduced lung function<br>• Aggravation of the effects of gaseous pollutants<br>• Aggravation of respiratory and cardiorespiratory diseases<br>• Increased cough and chest discomfort<br>• Soiling<br>• Reduced visibility |
| Sulfur Dioxide ($SO_2$) | • Combustion of sulfur-containing fossil fuels<br>• Smelting of sulfur-bearing metal ores Industrial processes | • Aggravation of respiratory diseases (asthma, emphysema)<br>• Reduced lung function<br>• Irritation of eyes<br>• Reduced visibility<br>• Plant injury<br>• Deterioration of metals, textiles, leather, finishes, coatings, etc. |

Source: California Air Resources Board (2015).

[8] CARB. 2000. Stationary Source Division and Mobile Source Control Division. *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles.* October.

## Table B: Federal and State Ambient Air Quality Standards

| Pollutant | Averaging Time | California Standards[1] | | Federal Standards[2] | | |
|---|---|---|---|---|---|---|
| | | Concentration[3] | Method[4] | Primary[3,5] | Secondary[3,6] | Method[7] |
| Ozone ($O_3$)[8] | 1-Hour | 0.09 ppm (180 µg/m³) | Ultraviolet Photometry | – | Same as Primary Standard | Ultraviolet Photometry |
| | 8-Hour | 0.07 ppm (137 µg/m³) | | 0.070 ppm (137 µg/m³) | | |
| Respirable Particulate Matter ($PM_{10}$)[9] | 24-Hour | 50 µg/m³ | Gravimetric or Beta Attenuation | 150 µg/m³ | Same as Primary Standard | Inertial Separation and Gravimetric Analysis |
| | Annual Arithmetic Mean | 20 µg/m³ | | – | | |
| Fine Particulate Matter ($PM_{2.5}$)[9] | 24-Hour | - | | 35 µg/m³ | Same as Primary Standard | Inertial Separation and Gravimetric Analysis |
| | Annual Arithmetic Mean | 12 µg/m³ | Gravimetric or Beta Attenuation | 9.0 µg/m³ [15] | | |
| Carbon Monoxide (CO) | 8-Hour | 9.0 ppm (10 mg/m³) | Non-Dispersive Infrared Photometry (NDIR) | 9 ppm (10 mg/m³) | – | Non-Dispersive Infrared Photometry (NDIR) |
| | 1-Hour | 20 ppm (23 mg/m³) | | 35 ppm (40 mg/m³) | | |
| | 8-Hour (Lake Tahoe) | 6 ppm (7 mg/m³) | | – | – | |
| Nitrogen Dioxide ($NO_2$)[10] | Annual Arithmetic Mean | 0.03 ppm (57 µg/m³) | Gas Phase Chemi-luminescence | 53 ppb (100 µg/m³) | Same as Primary Standard | Gas Phase Chemi-luminescence |
| | 1-Hour | 0.18 ppm (339 µg/m³) | | 100 ppb (188 µg/m³) | - | |
| Lead (Pb)[12,13] | 30-Day Average | 1.5 µg/m³ | Atomic Absorption | – | – | High-Volume Sampler and Atomic Absorption |
| | Calendar Quarter | – | | 1.5 µg/m³ (for certain areas)[12] | Same as Primary Standard | |
| | Rolling 3-Month Average[9] | – | | 0.15 µg/m³ | | |
| Sulfur Dioxide ($SO_2$)[11] | 24-Hour | 0.04 ppm (105 µg/m3) | Ultraviolet Fluorescence | 0.14 ppm (for certain areas) | – | Ultraviolet Fluorescence; Spectro-photometry (Pararosaniline Method) |
| | 3-Hour | – | | – | 0.5 ppm (1300 µg/m³) | |
| | 1-Hour | 0.25 ppm (655 µg/m³) | | 75 ppb (196 µg/m³)[11] | – | |
| | Annual Arithmetic Mean | – | | 0.030 ppm (for certain areas)[11] | – | |
| Visibility-Reducing Particles[12] | 8-Hour | See footnote 14 | Beta Attenuation and Transmittance through Filter Tape. | No Federal Standards | | |
| Sulfates | 24-Hour | 25 µg/m³ | Ion Chromatography | | | |
| Hydrogen Sulfide | 1-Hour | 0.03 ppm (42 µg/m³) | Ultraviolet Fluorescence | | | |
| Vinyl Chloride[10] | 24-Hour | 0.01 ppm (26 µg/m³) | Gas Chromatography | | | |

Source: California Air Resources Board (2016) (Website: https://www.arb.ca.gov/research/aaqs/aaqs2.pdf).

*Table notes are provided on the following page.*

[1] California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, and particulate matter ($PM_{10}$, $PM_{2.5}$, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California Ambient Air Quality Standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[2] National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For $PM_{10}$, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than one. For $PM_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over 3 years, are equal to or less than the standard. Contact USEPA for further clarification and current national policies.

[3] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[4] Any equivalent measurement method which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.

[5] National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

[6] National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[7] Reference method as described by the USEPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the USEPA.

[8] On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

[9] On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/m³ to 12.0 µg/m³. The existing national 24- hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour $PM_{10}$ standards (primary and secondary) of 150 µg/m³ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

[10] To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

[11] On June 2, 2010, a new 1-hour $SO_2$ standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 $SO_2$ national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

[12] The CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[13] The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

[14] In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

[15] On February 7, 2024, the federal annual $PM_{2.5}$ standard was revised from 12.0 µg/m³ to 9.0 µg/m³.

°C = degrees Celsius
µg/m³ = micrograms per cubic meter
CARB = California Air Resources Board
mg/m³ = milligrams per cubic meter
$PM_{10}$ = particulate matter less than 10 microns in size
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
ppb = parts per billion
ppm = parts per million
USEPA = United States Environmental Protection Agency

## GREENHOUSE GASES

Global climate change is the observed increase in the average temperature of the Earth's atmosphere and oceans in recent decades. The Earth's average near-surface atmospheric temperature rose 0.6 ± 0.2 degrees Celsius (°C) or 1.1 ± 0.4 degrees Fahrenheit (°F) in the 20th century. The prevailing scientific opinion on climate change is that most of the warming observed over the last 50 years is attributable to human activities. The increased amounts of carbon dioxide ($CO_2$) and other GHGs are the primary causes of the human-induced component of warming. GHGs are released by the burning of fossil fuels, land clearing, agriculture, and other activities, and lead to an increase in the greenhouse effect.[9]

GHGs are present in the atmosphere naturally, are released by natural sources, or are formed from secondary reactions taking place in the atmosphere. The gases that are widely seen as the principal contributors to human-induced global climate change are:

- $CO_2$
- Methane ($CH_4$)
- Nitrous oxide ($N_2O$)
- Hydrofluorocarbons (HFCs)
- Perfluorocarbons (PFCs)
- Sulfur hexafluoride ($SF_6$)

Over the last 200 years, humans have caused substantial quantities of GHGs to be released into the atmosphere. These extra emissions are increasing GHG concentrations in the atmosphere, and enhancing the natural greenhouse effect, which is believed to be causing global warming. While manmade GHGs include naturally-occurring GHGs such as $CO_2$, methane, and $N_2O$, some gases, like HFCs, PFCs, and $SF_6$ are completely new to the atmosphere.

Certain gases, such as water vapor, are short-lived in the atmosphere. Others remain in the atmosphere for significant periods of time, contributing to climate change in the long term. Water vapor is excluded from the list of GHGs above because it is short-lived in the atmosphere and its atmospheric concentrations are largely determined by natural processes, such as oceanic evaporation. For the purposes of this air quality analysis, the term "GHGs" will refer collectively to the six gases listed above.

These gases vary considerably in terms of Global Warming Potential (GWP), which is a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The global warming potential is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation and length of time that the gas remains in the atmosphere

[9] The temperature on Earth is regulated by a system commonly known as the "greenhouse effect." Just as the glass in a greenhouse lets heat from sunlight in and reduces the heat escaping, greenhouse gases like carbon dioxide, methane, and nitrous oxide in the atmosphere keep the Earth at a relatively even temperature. Without the greenhouse effect, the Earth would be a frozen globe; thus, although an excess of greenhouse gas results in global warming, the naturally occurring greenhouse effect is necessary to keep our planet at a comfortable temperature.

("atmospheric lifetime"). The GWP of each gas is measured relative to carbon dioxide, the most abundant GHG; the definition of GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to the ratio of heat trapped by one unit mass of $CO_2$ over a specified time period. GHG emissions are typically measured in terms of pounds or tons of $CO_2$ equivalents ($CO_2e$). Table C shows the GWP for each type of GHG. For example, $SF_6$ is 23,500 times more potent at contributing to global warming than $CO_2$.

### Table C: Global Warming Potential of Greenhouse Gases

| Gas | Atmospheric Lifetime (Years) | Global Warming Potential (100-Year Time Horizon) |
|---|---|---|
| Carbon Dioxide | 50-200 | 1 |
| Methane | 12 | 28 |
| Nitrous Oxide | 114 | 265 |
| HFC-23 | 270 | 12,400 |
| HFC-134a | 14 | 1,300 |
| HFC-152a | 1.4 | 138 |
| PFC: Tetrafluoromethane ($CF_4$) | 50,000 | 6,630 |
| PFC: Hexafluoromethane ($C_2F_6$) | 10,000 | 11,100 |
| Sulfur Hexafluoride ($SF_6$) | 3,200 | 23,500 |

Source: *Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report (AR5)* (IPCC 2014).
CARB = California Air Resources Board
HFC = hydrofluorocarbons
PFC = perfluorocarbons

The following discussion summarizes the characteristics of the six GHGs and black carbon.

## Carbon Dioxide

In the atmosphere, carbon generally exists in its oxidized form, as $CO_2$. Natural sources of $CO_2$ include the respiration (breathing) of humans, animals, and plants, volcanic out gassing, decomposition of organic matter and evaporation from the oceans. Human caused sources of $CO_2$ include the combustion of fossil fuels and wood, waste incineration, mineral production, and deforestation. Natural sources release approximately 150 billion tons of $CO_2$ each year, far outweighing the 7 billion tons of manmade emissions of $CO_2$ each year. Nevertheless, natural removal processes, such as photosynthesis by land- and ocean-dwelling plant species, cannot keep pace with this extra input of manmade $CO_2$, and consequently, the gas is building up in the atmosphere.

In 2021, total annual $CO_2$ accounted for approximately 81.2 percent of California's overall GHG emissions.[10] Transportation is the single largest source of $CO_2$ in California, which is primarily comprised of on-road travel. Electricity production, industrial and residential sources also make important contributions to $CO_2$ emissions in California.

[10] CARB. 2022b. *GHGs Descriptions & Sources in California*. Website: ww2.arb.ca.gov/ghg-descriptions-sources (accessed June 2024).

### Methane

$CH_4$ is produced when organic matter decomposes in environments lacking sufficient oxygen. Natural sources include wetlands, termites, and oceans. Decomposition occurring in landfills accounts for the majority of human-generated $CH_4$ emissions in California and in the United States as a whole. Agricultural processes such as intestinal fermentation, manure management, and rice cultivation are also significant sources of $CH_4$ in California. Total annual emissions of $CH_4$ accounted for approximately 9.8 percent of GHG emissions in California in 2021.[11]

### Nitrous Oxide

$N_2O$ is produced naturally by a wide variety of biological sources, particularly microbial action in soils and water. Tropical soils and oceans account for the majority of natural source emissions. Nitrous oxide is a product of the reaction that occurs between nitrogen and oxygen during fuel combustion. Both mobile and stationary combustion emit $N_2O$, and the quantity emitted varies according to the type of fuel, technology, and pollution control device used, as well as maintenance and operating practices. Agricultural soil management and fossil fuel combustion are the primary sources of human-generated $N_2O$ emissions in California. Nitrous oxide emissions accounted for approximately 3.4 percent of GHG emissions in California in 2021.[12]

### Hydrofluorocarbons, Perfluorocarbons, and Sulfur Hexafluoride

HFCs are primarily used as substitutes for ozone-depleting substances regulated under the Montreal Protocol.[13] PFCs and $SF_6$ are emitted from various industrial processes, including aluminum smelting, semiconductor manufacturing, electric power transmission and distribution, and magnesium casting. There is no aluminum or magnesium production in California; however, the rapid growth in the semiconductor industry leads to greater use of PFCs. HFCs, PFCs, and $SF_6$ accounted for about 5.6 percent of GHG emissions in California in 2021.[14]

### Black Carbon

Black carbon is the most strongly light-absorbing component of PM formed by burning fossil fuels such as coal, diesel, and biomass. Black carbon is emitted directly into the atmosphere in the form of $PM_{2.5}$ and is the most effective form of PM, by mass, at absorbing solar energy. Per unit of mass in the atmosphere, black carbon can absorb one million times more energy than $CO_2$.[15] Black carbon contributes to climate change both directly, such as absorbing sunlight, and indirectly, such as

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11 CARB. 2022b. *GHGs Descriptions & Sources in California*. Website: ww2.arb.ca.gov/ghg-descriptions-sources (accessed June 2024).

12 Ibid.

13 The Montreal Protocol is an international treaty that was approved on January 1, 1989, and was designated to protect the ozone layer by phasing out the production of several groups of halogenated hydrocarbons believed to be responsible for ozone depletion.

14 CARB. 2022. op. cit.

15 United States Environmental Protection Agency (USEPA). 2015. Black Carbon, Basic Information. February 14, 2017. Website: 19january2017snapshot.epa.gov/www3/airquality/blackcarbon/basic.html (accessed June 2024).

affecting cloud formation. However, because black carbon is short-lived in the atmosphere, it can be difficult to quantify its effect on global warming.

Most U.S. emissions of black carbon come from mobile sources (52 percent), particularly from diesel-fueled vehicles. The other major source of black carbon is open biomass burning, including wildfires, although residential heating and industry also contribute. The CARB estimates that the annual black carbon emissions in California will be reduced approximately 50 percent below 2013 levels by 2030.[16]

16 CARB. 2017b. *Short-Lived Climate Pollutant Reduction Strategy.* March. Website: https://ww2.arb.ca.gov/sites/default/files/2020-07/final_SLCP_strategy.pdf (accessed June 2024).

# REGULATORY SETTING

## AIR QUALITY REGULATIONS

The USEPA and the CARB regulate direct emissions from motor vehicles. The SJVAPCD is the regional agency primarily responsible for regulating air pollution emissions from stationary sources (e.g., factories) and indirect sources (e.g., traffic associated with new development), as well as monitoring ambient pollutant concentrations.

### Federal Regulations

#### *Federal Clean Air Act*

The 1970 federal Clean Air Act (CAA) authorized the establishment of national health-based air quality standards and also set deadlines for their attainment. The Federal Clean Air Act Amendments of 1990 changed deadlines for attaining national standards as well as the remedial actions required of areas of the nation that exceed the standards. Under the Clean Air Act, State and local agencies in areas that exceed the national standards are required to develop State Implementation Plans to demonstrate how they will achieve the national standards by specified dates.

### State Regulations

#### *California Clean Air Act*

In 1988, the California Clean Air Act (CCAA) required that all air districts in the State endeavor to achieve and maintain CAAQS for CO, $O_3$, $SO_2$, and $NO_2$ by the earliest practical date. The CCAA provides districts with authority to regulate indirect sources and mandates that air quality districts focus particular attention on reducing emissions from transportation and area-wide emission sources. Each nonattainment district is required to adopt a plan to achieve a 5 percent annual reduction, averaged over consecutive 3-year periods, in district-wide emissions of each nonattainment pollutant or its precursors. A Clean Air Plan shows how a district would reduce emissions to achieve air quality standards. Generally, the State standards for these pollutants are more stringent than the national standards.

#### *California Air Resources Board*

The CARB is the State's "clean air agency." The CARB's goals are to attain and maintain healthy air quality, protect the public from exposure to toxic air contaminants, and oversee compliance with air pollution rules and regulations.

**Assembly Bill 2588 Air Toxics "Hot Spots" Information and Assessment Act.** Under Assembly Bill (AB) 2588, stationary sources of air pollutants are required to report the types and quantities of certain substances their facilities routinely released into the air. The goals of the Air Toxics "Hot Spots" Act are to collect emission data, identify facilities having localized impacts, determine health risks, and notify nearby residents of significant risks.

**The California Air Resources Board Handbook.** The CARB has developed an Air Quality and Land Use Handbook[17] which is intended to serve as a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process. According to the CARB Handbook, air pollution studies have shown an association between respiratory and other non-cancer health effects and proximity to high traffic roadways. Other studies have shown that diesel exhaust and other cancer-causing chemicals emitted from cars and trucks are responsible for much of the overall cancer risk from airborne toxics in California. The CARB Handbook recommends that county and city planning agencies strongly consider proximity to these sources when finding new locations for "sensitive" land uses such as homes, medical facilities, daycare centers, schools, and playgrounds.

Land uses that can produce air pollution sources of concern include freeways, rail yards, ports, refineries, distribution centers, chrome plating facilities, dry cleaners, and large gasoline service stations. Key recommendations in the CARB Handbook include taking steps to avoid siting new, sensitive land uses:

- Within 500 feet of a freeway, urban roads with 100,000 vehicles/day or rural roads with 50,000 vehicles/day;
- Within 1,000 feet of a major service and maintenance rail yard;
- Immediately downwind of ports (in the most heavily impacted zones) and petroleum refineries;
- Within 300 feet of any dry cleaning operation (for operations with two or more machines, provide 500 feet); and
- Within 300 feet of a large gas station (defined as a facility with a throughput of 3.6 million gallons per year or greater).

The CARB Handbook specifically states that its recommendations are advisory and acknowledges land use agencies have to balance other considerations, including housing and transportation needs, economic development priorities, and other quality of life issues.

The recommendations are generalized and do not consider site-specific meteorology, freeway truck percentages, or other factors that influence risk for a particular project site. The purpose of this guidance is to help land use agencies determine when to further examine project sites for actual health risk associated with the location of new sensitive land uses.

## Regional Regulations

### *San Joaquin Valley Air Pollution Control District*

The SJVAPCD is responsible for controlling emissions primarily from stationary sources. The SJVAPCD maintains air quality monitoring stations throughout the basin. The SJVAPCD, in coordination with the eight county transportation agencies, is also responsible for developing, updating, and

[17] CARB. 2005. *Air Quality and Land Use Handbook: A Community Health Perspective.* April.

implementing air quality attainment plans for the San Joaquin Valley Air Basin (SJVAB). The SJVAPCD also has roles under the California Environmental Quality Act (CEQA).

**Guidance for Assessing and Mitigating Air Quality Impacts.** The SJVAPCD prepared the GAMAQI to assist lead agencies and project applicants in evaluating the potential air quality impacts of projects in the SJVAB. The GAMAQI provides SJVAPCD-recommended procedures for evaluating potential air quality impacts during the CEQA environmental review process. The GAMAQI provides guidance on evaluating short-term (construction) and long-term (operational) air emissions. The most recent version of the GAMAQI, adopted on March 19, 2015, was used in this evaluation. It contains guidance on the following:

- Criteria and thresholds for determining whether a project may have a significant adverse air quality impact
- Specific procedures and modeling protocols for quantifying and analyzing air quality impacts
- Methods to mitigate air quality impacts
- Information for use in air quality assessments and environmental documents, including air quality, regulatory setting, climate, and topography data

**Current Air Quality Plans.** The SJVAPCD is responsible for formulating and implementing the Air Quality Management Plan (AQMP) for the SJVAB. The main purpose of an AQMP is to bring the area into compliance with federal and State air quality standards. The SJVAPCD does not have one single AQMP for criteria pollutants, rather the SJVAPCD address each criteria pollutant with its own Plan. The SJVAPCD has the following AQMPs:

- 2022 Plan for the 2015 8-Hour Ozone Standard
- 2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards
- 2016 Moderate Area Plan for the 2012 $PM_{2.5}$ Standard
- 2016 Plan for the 2008 8-Hour Ozone Standard
- 2013 Plan for the Revoked 1-Hour Ozone Standard
- 2007 $PM_{10}$ Maintenance Plan
- 2004 Revision to the California State Implementation Plan for Carbon Monoxide

The SJVAPCD's AQMPs incorporate the latest scientific and technological information and planning assumptions, including updated emission inventory methodologies for various source categories. The SJVAPCD's AQMPs included the integrated strategies and measures needed to meet the national ambient air quality standards (NAAQS), implementation of new technology measures, and

demonstrations of attainment of the 1-hour and 8-hour ozone NAAQS as well as the latest 24-hour and annual $PM_{2.5}$ standards.

The SJVAPCD's current air quality plans are discussed below.

***Ozone Plans.*** The SJVAPCD's Governing Board approved the 2022 Plan for the 2015 8-hour ozone standard on December 15, 2022. The comprehensive strategy in this plan will reduce $NO_x$ emissions by 72 percent by 2037 and will bring the San Joaquin Valley into attainment of USEPA's 2015 8-hour ozone standard as expeditiously as practicable by the 2037 attainment deadline.

***Particulate Matter Plans.*** The SJVAPCD adopted the 2007 $PM_{10}$ Maintenance Plan in September 2007 to assure the SJVAB's continued attainment of the USEPA's $PM_{10}$ standard. The USEPA designated the valley as an attainment/maintenance area for $PM_{10}$.

The 2008 $PM_{2.5}$ Plan builds upon the comprehensive strategy adopted in the 2007 Ozone Plan to bring the SJVAB into attainment of the 1997 national standards for $PM_{2.5}$. The USEPA has identified $NO_x$ and $SO_2$ as precursors that must be addressed in air quality plans for the 1997 $PM_{2.5}$ standards. The 2008 $PM_{2.5}$ Plan is a continuation of the SJVACPD's strategy to improve the air quality in the SJVAB.

The SJVAPCD prepared the 2012 $PM_{2.5}$ Plan to bring the San Joaquin Valley into attainment of the USEPA's most recent 24-hour $PM_{2.5}$ standard of 35 $\mu g/m^3$. The CARB approved the SJVAPCD's 2012 $PM_{2.5}$ Plan at a public hearing on January 24, 2013. The plan, approved by the SJVAPCD Governing Board on December 20, 2012, will bring the San Joaquin Valley into attainment of USEPA's 1997 $PM_{2.5}$ standard as expeditiously as practicable, but no later than, December 31, 2020.

The SJVAPCD adopted the 2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ federal standards on November 15, 2018. This plan addresses the USEPA federal 1997 annual $PM_{2.5}$ standard of 15 $\mu g/m^3$ and 24-hour $PM_{2.5}$ standard of 65 $\mu g/m^3$, the 2006 24-hour $PM_{2.5}$ standard of 35 $\mu g/m^3$, and the 2012 annual $PM_{2.5}$ standard of 12 $\mu g/m^3$. This plan demonstrates attainment of the federal $PM_{2.5}$ standards as expeditiously as practicable.

**Rules and Regulations.** The SJVAPCD rules and regulations that may apply to the proposed project include, but are not limited to, the following:

- **Rule 8011—General Requirements: Fugitive Dust Emission Sources.** Fugitive dust regulations are applicable to outdoor fugitive dust sources. Operations, including construction operations, must control fugitive dust emissions in accordance with SJVAPCD Regulation VIII. According to Rule 8011, the SJVAPCD requires the implementation of control measures for fugitive dust emission sources.

- **Regulation VIII—Fugitive $PM_{10}$ Prohibitions.** Rules 8011–8081 are designed to reduce $PM_{10}$ emissions (predominantly dust/dirt) generated by human activity, including construction and demolition activities, road construction, bulk materials storage, paved and unpaved roads, and

carryout and track out. All development projects that involve soil disturbance are subject to at least one provision of the Regulation VIII series of rules.

- **Rule 2201—New and Modified Stationary Source Review Rule.** This rule provides the review of new and modified stationary sources of air pollution to operate without interfering with the attainment or maintenance of ambient air quality standards and results in no net increase in emissions above specified thresholds.

- **Rule 4102—Nuisance.** The purpose of this rule is to protect the health and safety of the public, and applies to any source operation that emits or may emit air contaminants or other materials.

- **Rule 4601—Architectural Coatings.** The purpose of this rule is to limit VOC emissions from architectural coatings. Emissions are reduced by limits on VOC content and providing requirements on coatings storage, cleanup, and labeling.

- **Rule 4901—Wood Burning Fireplaces and Wood Burning Heaters.** The purpose of this rule is to limit emissions of carbon monoxide and particulate matter from wood burning fireplaces, wood burning heaters, and outdoor wood burning devices.

- **Rule 9510—Indirect Source Review.** This rule reduces the impact of $NO_x$ and $PM_{10}$ emissions from new development projects. The rule places application and emission reduction requirements on development projects meeting applicability criteria in order to reduce emissions through on-site mitigation, off-site SJVAPCD-administered projects, or a combination of the two. Compliance with SJVAPCD Rule 9510 reduces emissions impacts through incorporation of on-site measures as well as payment of an off-site fee that funds emission reduction projects in the SJVAB. The emissions analysis for Rule 9510 is detailed and is dependent on the exact project design that is expected to be constructed or installed. Compliance with Rule 9510 is separate from the CEQA process, though the control measures used to comply with Rule 9510 may be used to mitigate significant air quality impacts.

### *Fresno County Association of Governments*

Fresno Council of Governments (Fresno COG) is responsible for regional transportation planning in Fresno County and participates in developing mobile source emission inventories used in air quality attainment plans. Regional Transportation Plans (RTPs) are State-mandated plans that identify long-term transportation needs for a region's transportation network. Fresno COG's 2022 RTP charts the long-range vision of regional transportation in Fresno county through the year 2042. The RTP identifies existing and future transportation related needs, while considering all modes of travel, analyzing alternative solutions, and identifying priorities for the anticipated available funding for the 1,100 projects and multiple programs included within it. Senate Bill (SB) 375, which went into effect in 2009, added statutes to the California Government Code to encourage planning practices that create sustainable communities. It calls for each metropolitan planning organization to prepare a Sustainable Communities Strategy (SCS) as an integrated element of the RTP that is to be updated every four years. The SCS is intended to show how integrated land use and transportation planning can lead to lower GHG emissions from autos and light trucks. Fresno COG has included the SCS in its 2022 RTP.

### Local Regulations

#### *City of Clovis General Plan*

The City of Clovis (City) addresses air quality in the Air Quality Element of the General Plan. The Air Quality Element provides goals, policies, and action items that work to meet or exceed all State and federal air quality standards. Applicable air quality policies and action items from the Air Quality Element are listed below.

- **Policy 1.1: Land use and transportation.** Reduce greenhouse gas and other local pollutant emissions through mixed use and transit-oriented development and well-designed transit, pedestrian, and bicycle systems.
- **Policy 1.3: Construction activities.** Encourage the use of best management practices during construction activities to reduce emissions of criteria pollutants as outlined by the SJVAPCD.
- **Policy 1.6: Alternative fuel infrastructure.** Encourage public and private activity and employment centers to incorporate electric charging and alternative fuel stations.
- **Policy 1.8: Trees.** Maintain or plant trees where appropriate to provide shade, absorb carbon, improve oxygenation, slow stormwater runoff, and reduce the heat island effect.
- **Policy 2.1: Regional coordination.** Support regional efforts to reduce air pollution (criteria air pollutants and greenhouse gas emissions) and collaborate with other agencies to improve air quality at the emission source and reduce vehicle miles traveled.
- **Policy 2.6: Innovative mitigation.** Encourage innovative mitigation measures to reduce air quality impacts by coordinating with the SJVAPCD, project applicants, and other interested parties.

## GREENHOUSE GAS REGULATORY SETTING

This section describes regulations related to GHGs at the federal, State, and local level.

### Federal Regulations

The United States has historically had a voluntary approach to reducing GHG emissions. However, on April 2, 2007, the United States Supreme Court ruled that the USEPA has the authority to regulate $CO_2$ emissions under the CAA.

While there currently are no adopted federal regulations for the control or reduction of GHG emissions, the USEPA commenced several actions in 2009 to implement a regulatory approach to global climate change, including the 2009 USEPA final rule for mandatory reporting of GHGs from large GHG emission sources in the United States. Additionally, the USEPA Administrator signed an endangerment finding action in 2009 under the CAA, finding that seven GHGs ($CO_2$, $CH_4$, $N_2O$, HFCs, $NF_3$, PFCs, and $SF_6$) constitute a threat to public health and welfare, and that the combined emissions from motor vehicles cause and contribute to global climate change, leading to national GHG emission standards.

## State Regulations

The CARB is the lead agency for implementing climate change regulations in the State. Since its formation, the CARB has worked with the public, the business sector, and local governments to find solutions to California's air pollution problems. Key efforts by the State are described below.

### *Assembly Bill 32 (2006), California Global Warming Solutions Act*

California's major initiative for reducing GHG emissions is AB 32, passed by the State legislature on August 31, 2006. This effort aims at reducing GHG emissions to 1990 levels by 2020. The CARB has established the level of GHG emissions in 1990 at 427 million metric tons (MMT) of $CO_2e$. The emissions target of 427 MMT requires the reduction of 169 MMT from the State's projected business-as-usual 2020 emissions of 596 MMT. AB 32 requires the CARB to prepare a Scoping Plan that outlines the main State strategies for meeting the 2020 deadline and to reduce GHGs that contribute to global climate change. The Scoping Plan was approved by the CARB on December 11, 2008, and contains the main strategies California will implement to achieve the reduction of approximately 169 MMT $CO_2e$, or approximately 30 percent, from the State's projected 2020 emissions level of 596 MMT $CO_2e$ under a business-as-usual scenario (this is a reduction of 42 MMT $CO_2e$, or almost 10 percent from 2002–2004 average emissions). The Scoping Plan also includes CARB-recommended GHG reductions for each emissions sector of the State's GHG inventory. The Scoping Plan calls for the largest reductions in GHG emissions to be achieved by implementing the following measures and standards:

- Improved emissions standards for light-duty vehicles (estimated reductions of 31.7 MMT $CO_2e$);
- The Low-Carbon Fuel Standard (15.0 MMT $CO_2e$);
- Energy efficiency measures in buildings and appliances and the widespread development of combined heat and power systems (26.3 MMT $CO_2e$); and
- A renewable portfolio standard for electricity production (21.3 MMT $CO_2e$).

The CARB approved the First Update to the Climate Change Scoping Plan on May 22, 2014. The First Update identifies opportunities to leverage existing and new funds to further drive GHG emission reductions through strategic planning and targeted low carbon investments. The First Update defines CARB climate change priorities until 2020, and also sets the groundwork to reach long-term goals set forth in EOs S-3-05 and B-16-2012. The Update highlights California's progress toward meeting the "near-term" 2020 GHG emission reduction goals as defined in the initial Scoping Plan. It also evaluates how to align the State's "longer-term" GHG reduction strategies with other State policy priorities for water, waste, natural resources, clean energy, transportation, and land use. CARB released a second update to the Scoping Plan, the 2017 Scoping Plan,[18] to reflect the 2030 target set by EO B-30-15 and codified by SB 32.

[18] CARB. 2017a. *California's 2017 Climate Change Scoping Plan*. November.

Most recently, the 2022 Scoping Plan[19] was approved in December 2022 and assesses progress towards achieving the SB 32 2030 target and lay out a path to achieve carbon neutrality no later than 2045. The 2022 Scoping Plan focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others, and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

### *Senate Bill 375 (2008)*

Signed into law on October 1, 2008, SB 375 supplements GHG reductions from new vehicle technology and fuel standards with reductions from more efficient land use patterns and improved transportation. Under the law, the CARB approved GHG reduction targets in February 2011 for California's 18 federally designated regional planning bodies, known as Metropolitan Planning Organizations (MPOs). The CARB may update the targets every 4 years and must update them every 8 years. MPOs, in turn, must demonstrate how their plans, policies, and transportation investments meet the targets set by the CARB through SCSs. The SCSs are included with the Regional Transportation Plan, a report required by State law. However, if an MPO finds that its SCS will not meet the GHG reduction target, it may prepare an Alternative Planning Strategy (APS). The APS identifies the impediments to achieving the targets.

### *Executive Order B-30-15 (2015)*

Governor Jerry Brown signed Executive Order (EO) B-30-15 on April 29, 2015, which added the immediate target of:

- GHG emissions should be reduced to 40 percent below 1990 levels by 2030.

All State agencies with jurisdiction over sources of GHG emissions were directed to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 targets. CARB was directed to update the AB 32 Scoping Plan to reflect the 2030 target, and therefore, is moving forward with the update process. The mid-term target is critical to help frame the suite of policy measures, regulations, planning efforts, and investments in clean technologies and infrastructure needed to continue reducing emissions.

### *Senate Bill 350 (2015) Clean Energy and Pollution Reduction Act*

SB 350, signed by Governor Jerry Brown on October 7, 2015, updates and enhances AB 32 by introducing the following set of objectives in clean energy, clean air, and pollution reduction for 2030:

- Raise California's renewable portfolio standard from 33 percent to 50 percent; and
- Increasing energy efficiency in buildings by 50 percent by the year 2030.

The 50 percent renewable energy standard will be implemented by the CPUC for the private utilities and by the CEC for municipal utilities. Each utility must submit a procurement plan showing it will

[19] CARB. 2021. *2022 Scoping Plan Update*. May 10. Website: https://ww2.arb.ca.gov/sites/default/files/2022-12/2022-sp.pdf (accessed June 2024).

purchase clean energy to displace other non-renewable resources. The 50 percent increase in energy efficiency in buildings must be achieved through the use of existing energy efficiency retrofit funding and regulatory tools already available to state energy agencies under existing law. The addition made by this legislation requires State energy agencies to plan for and implement those programs in a manner that achieves the energy efficiency target.

### *Senate Bill 32, California Global Warming Solutions Act of 2016, and Assembly Bill 197*

In summer 2016 the Legislature passed, and the Governor signed, SB 32, and AB 197. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in Governor Brown's April 2015 EO B-30-15. SB 32 builds on AB 32 and keeps us on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels, consistent with an Intergovernmental Panel on Climate Change (IPCC) analysis of the emissions trajectory that would stabilize atmospheric GHG concentrations at 450 parts per million $CO_2e$ and reduce the likelihood of catastrophic impacts from climate change.

The companion bill to SB 32, AB 197, provides additional direction to CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 meant to provide easier public access to air emissions data that are collected by CARB was posted in December 2016.

### *Senate Bill 100*

On September 10, 2018, Governor Brown signed SB 100, which raises California's Renewables Portfolio Standard (RPS) requirements to 60 percent by 2030, with interim targets, and 100 percent by 2045. The bill also establishes a State policy that eligible renewable energy resources and zero-carbon resources supply 100 percent of all retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all State agencies by December 31, 2045. Under the bill, the State cannot increase carbon emissions elsewhere in the western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

### *Executive Order B-55-18*

EO B-55-18, signed September 10, 2018, sets a goal "to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter." EO B-55-18 directs CARB to work with relevant State agencies to ensure future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal. The goal of carbon neutrality by 2045 is in addition to other statewide goals, meaning not only should emissions be reduced to 80 percent below 1990 levels by 2050, but that, by no later than 2045, the remaining emissions be offset by equivalent net removals of $CO_2e$ from the atmosphere, including through sequestration in forests, soils, and other natural landscapes.

### *Assembly Bill 1279*

AB 1279 was signed in September of 2022, and codifies the State goals of achieving net carbon neutrality by 2045 and maintaining net negative GHG emissions thereafter. This bill also requires California to reduce statewide GHG emissions by 85 percent compared to 1990 levels by 2045 and directs CARB to work with relevant state agencies to achieve these goals.

### *Executive Order N-79-20*

EO N-79-20, which was signed by the Governor on September 23, 2020, sets the following goals for the State: 100 percent of in-state sales of new passenger cars and trucks shall be zero-emission by 2035; 100 percent of medium- and heavy-duty vehicles in the State shall be zero-emission by 2045 for all operations where feasible and by 2035 for drayage trucks; and 100 percent of off-road vehicles and equipment in the State shall be zero-emission by 2035, where feasible.

## Regional Regulations

### *San Joaquin Valley Air Pollution Control District*

Tulare County is located within the SJVAB, which is under the jurisdiction of the SJVAPCD. The SJVAPCD has regulatory authority over certain stationary and industrial GHG emission sources and provides voluntary technical guidance on addressing GHGs for other emission sources in a CEQA context. SJVAPCD initiatives related to GHGs are described below:

**Climate Change Action Plan.** The San Joaquin Valley Air Pollution Control District Climate Change Action Plan (CCAP) was adopted on August 21, 2008. The CCAP includes suggested best performance standards (BPS) for proposed development projects. However, the SJVAPCD's CCAP was adopted in 2009 and was prepared based on the State's 2020 GHG targets, which are now superseded by State policies (i.e., the 2022 CALGreen Code) and the 2030 GHG targets, established in SB 32.

**San Joaquin Valley Carbon Exchange and Rule 2301.** The SJVAPCD initiated work on the San Joaquin Valley Carbon Exchange in November 2008. The Exchange was implemented with the adoption of Amendments to Rule 2301 Emission Reduction Credit Banking on January 19, 2012. The purpose of the carbon exchange is to quantify, verify, and track voluntary GHG emissions reductions generated within the San Joaquin Valley.

The SJVAPCD incorporated a method to register voluntary GHG emission reductions with amendments to Rule 2301. The purposes of the amendments to the rule include the following:

- Provide an administrative mechanism for sources to bank voluntary GHG emission reductions for later use
- Provide an administrative mechanism for sources to transfer banked GHG emission reductions to others for any use
- Define eligibility standards, quantitative procedures, and administrative practices to ensure that banked GHG emission reductions are real, permanent, quantifiable, surplus, and enforceable

The SJVAPCD is participating in a new program developed by the California Air Pollution Control Officers Association (CAPCOA) to encourage banking and use of GHG reduction credits referred to as the CAPCOA Greenhouse Gas Reduction Exchange (GHGRx). The GHGRx provides information on GHG credit projects within participating air districts. The SJVAPCD is one of the first districts to have offsets available for trading on the GHGRx.

## Local Regulations

### *City of Clovis*

The City of Clovis General Plan provides goals, policies, and action items that work to meet or exceed all current and future state-mandated targets for reducing emissions of greenhouse gases. The following policies and action items from the General Plan, listed below, would be applicable to the proposed project.

- **Policy 1.1: Land use and transportation.** Reduce greenhouse gas and other local pollutant emissions through mixed use and transit-oriented development and well-designed transit, pedestrian, and bicycle systems.
- **Policy 1.6: Alternative fuel infrastructure.** Encourage public and private activity and employment centers to incorporate electric charging and alternative fuel stations.
- **Policy 2.1: Regional coordination.** Support regional efforts to reduce air pollution (criteria air pollutants and greenhouse gas emissions) and collaborate with other agencies to improve air quality at the emission source and reduce vehicle miles traveled.
- **Policy 2.2: Cross-jurisdictional issues.** Collaborate with regional agencies and surrounding jurisdictions to address cross-jurisdictional transportation and air quality issues.
- **Policy 2.3: Valleywide programs.** Establish parallel air quality programs and implementation measures with other communities across the San Joaquin Valley.
- **Policy 2.4: Public participation.** Encourage participation of local citizens, the business community, and interested groups and individuals in air quality planning and implementation.
- **Policy 2.6: Innovative mitigation.** Encourage innovative mitigation measures to reduce air quality impacts by coordinating with the SJVAPCD, project applicants, and other interested parties.

# SETTING

This section provides the current SJVAPCD attainment status, climate and air quality, ambient air quality monitoring results, and GHG emissions inventory.

## ATTAINMENT STATUS

The CARB is required to designate areas of the state as attainment, nonattainment, or unclassified for all State standards. An *attainment* designation for an area signifies that pollutant concentrations did not violate the standard for that pollutant in that area. A *nonattainment* designation indicates that a pollutant concentration violated the standard at least once, excluding those occasions when a violation was caused by an exceptional event, as defined in the criteria. An *unclassified* designation signifies that data do not support either an attainment or nonattainment status. The CCAA divides districts into moderate, serious, and severe air pollution categories, with increasingly stringent control requirements mandated for each category.

The USEPA designates areas for $O_3$, CO, and $NO_2$ as either does not meet the primary standards, or cannot be classified, or better than national standards. For $SO_2$, areas are designated as does not meet the primary standards, does not meet the secondary standards, cannot be classified, or better than national standards.

Table D provides a summary of the attainment status for the SJVAB with respect to NAAQS and CAAQS.

### Table D: San Joaquin Valley Air Basin Air Quality Attainment Status

| Pollutant | State | Federal |
|---|---|---|
| Ozone (1-hour) | Severe/Nonattainment | Not Applicable |
| Ozone (8-hour) | Nonattainment | Extreme Nonattainment |
| $PM_{10}$ | Nonattainment | Attainment (Maintenance) |
| $PM_{2.5}$ | Nonattainment | Nonattainment |
| Carbon Monoxide | Attainment | Attainment (Maintenance) |
| Nitrogen Dioxide | Attainment | Unclassified/Attainment |
| Lead | Attainment | Unclassified/Attainment |
| Sulfur Dioxide | Attainment | Unclassified |
| Sulfates | Attainment | No Federal Standard |
| Hydrogen Sulfide | Unclassified | No Federal Standard |

Source: California Air Resources Board and USEPA (2023).
$PM_{10}$ = particulate matter less than 10 microns in size
$PM_{2.5}$ = particulate matter less than 2.5 microns in size

## EXISTING CLIMATE AND AIR QUALITY

Air quality is a function of both local climate and local sources of air pollution. The amount of a given pollutant in the atmosphere is determined by the amount of the pollutant released and the atmosphere's ability to transport and dilute the pollutant. The major determinants of transport and dilution are wind, atmospheric stability, terrain, and for photochemical pollutants, sunshine.

The project site is located within the SJVAB and is under the jurisdiction of the SJVAPCD. A region's topographic features have a direct correlation with air pollution flow and therefore are used to determine the boundary of air basins. The SJVAB is comprised of approximately 25,000 square miles and covers of eight counties including Fresno, Kings, Madera, Merced, San Joaquin, Stanislaus and Tulare, and the western portion of Kern. The SJVAB is defined by the Sierra Nevada mountains in the east (8,000 to 14,000 feet in elevation), the Coast Ranges in the west (averaging 3,000 feet in elevation), and the Tehachapi mountains in the south (6,000 to 8,000 feet in elevation). The valley is basically flat with a slight downward gradient to the northwest. The valley opens to the sea at the Carquinez Straits where the San Joaquin-Sacramento Delta empties into San Francisco Bay.

An aerial view of the SJVAB would simulate a "bowl" opening only to the north. These topographic features restrict air movement through and out of the basin.

Although marine air generally flows into the basin from the San Joaquin River Delta, the Coast Range hinders wind access into the SJVAB from the west, the Tehachapi Mountains prevent southerly passage of air flow, and the high Sierra Nevada range is a significant barrier to the east. These topographic features result in weak air flow which becomes blocked vertically by high barometric pressure over the SJVAB. As a result, the SJVAB is highly susceptible to pollutant accumulation over time. Most of the surrounding mountains are above the normal height of summer inversion layers (1,500 to 3,000 feet).

Local climatological effects, including wind speed and direction, temperature, inversion layers, precipitation and fog, can exacerbate the air quality in the SJVAB. Wind speed and direction play an important role in dispersion and transport of air pollutants. Wind at the surface and aloft can disperse pollution by mixing vertically and by transporting it to other locations. For example, in the summer, wind usually originates at the north end of the SJVAB and flows in a south-southeasterly direction through the SJVAB, through Tehachapi pass, into the Southeast Desert Air Basin. In the winter, wind direction is reversed and flows in a north-northwesterly direction. In addition to the seasonal wind flow, a sea breeze flows into SJVAB during the day and a land breeze flowing out of the SJVAB at night. The diversified wind flow enhances the pollutant transport capability within SJVAB.

The annual average temperature varies throughout the SJVAB, ranging from the low 40s to high 90s, measured in degrees Fahrenheit (°F). With a more pronounced valley influence, inland areas show more variability in annual minimum and maximum temperatures than coastal areas. The climatological station closest to the site is the Fresno Yosemite International Airport Station (043257). The monthly average maximum temperature recorded at this station from January 1948 to June 2016 ranged from 54.6°F in January to 98.3°F in July, with an annual average maximum of 76.5°F. The monthly average minimum temperature recorded at this station ranged from 35.3°F in December to 65.7°F in July, with an annual average minimum of 50.4°F.[20] These levels are still

[20] Western Regional Climate Center. n.d. Fresno Yosemite International Airport (043257), Period of Record Monthly Climate Summary. Website: https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca3257 (accessed January 2023).

representative of the project area. January and December are typically the coldest months and July is typically the warmest month in this area of the SJVAB.

The majority of annual rainfall in the SJVAB occurs between November and March. Summer rainfall is minimal and is generally limited to scattered thundershowers in desert regions and slightly heavier showers near the lower portion of the SJVAB and along the Sierra Nevada mountains to the east. Average monthly rainfall during that period varied from 0.01 inches in July and August to 2.09 inches in January, with an annual total of 10.89 inches.[21] Patterns in monthly and yearly rainfall totals are predictable due to the recognizable differences in seasons within the valley.

The vertical dispersion of air pollutants in the SJVAB is limited by the presence of persistent temperature inversions. Because of cooling of the atmosphere, air temperature usually decreases with altitude. A reversal of this atmospheric state, where the air temperature increases with height, is termed an inversion. Inversions can exist at the surface, or at any height above the ground. The height of the base of the inversion is known as the "mixing height." This is the level within which pollutants can mix vertically. Air above and below the inversion base does not mix because of the differences in air density. Semi-permanent systems of high barometric pressure fronts frequently establish themselves over the SJVAB, preventing low pressure systems that might otherwise bring rain and winds that clean the air.

Inversion layers are significant in determining ozone formation, and CO and $PM_{10}$ concentrations. Ozone and its precursors will mix and react to produce higher ozone concentrations under an inversion. The inversion will also simultaneously trap and hold directly emitted pollutants such as carbon monoxide. $PM_{10}$ is both directly emitted and created in the atmosphere as a chemical reaction. Concentration levels of pollutants are directly related to inversion layers due to the limitation of mixing space.

Surface or radiation inversions are formed when the ground surface becomes cooler than the air above it during the night. The earth's surface goes through a radiative process on clear nights, where heat energy is transferred from the ground to a cooler night sky. As the earth's surface cools during the evening hours, the air directly above it also cools, while air higher up remains relatively warm. The inversion is destroyed when heat from the sun warms the ground, which in turn heats the lower layers of air; this heating stimulates the ground level air to float up through the inversion layer.

The combination of stagnant wind conditions and low inversions produces the greatest pollutant concentrations. On days of no inversion or high wind speeds, ambient air pollutant concentrations are lowest. Periods of low inversions and low wind speeds are conditions favorable to high concentrations of CO and $PM_{10}$. In the winter, the greatest pollution problems are CO and $NO_x$ because of extremely low inversions and air stagnation during the night and early morning hours. In

[21] Western Regional Climate Center. n.d. Fresno Yosemite International Airport (043257), Period of Record Monthly Climate Summary. Website: https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca3257 (accessed January 2023).

the summer, the longer daylight hours and the brighter sunshine combine to cause a reaction between hydrocarbons and oxides of nitrogen to form photochemical smog.

## AIR QUALITY MONITORING RESULTS

Air quality monitoring stations are located throughout the nation and are maintained by the local air pollution control district and State air quality regulating agencies. The SJVAPCD, together with the CARB, maintains ambient air quality monitoring stations in the SJVAB. The air quality monitoring stations closest to the project area are located at 908 North Villa Avenue in Clovis and 3727 North First Street in Fresno, California.

Pollutant monitoring results for years 2021 to 2023 at the nearby ambient air quality monitoring stations, shown in Table E, indicate that air quality in the area has generally been moderate. As indicated in the monitoring results, the State $PM_{10}$ standard was exceeded 111 times in 2021, 73 times in 2022 and an unknown number of times in 2023. In addition, the federal $PM_{10}$ standard was exceeded an unknown number of times in 2021 but not exceeded in 2022 or 2023. The federal $PM_{2.5}$ standard had 22 exceedances in 2021, four exceedances in 2022, and no exceedances in 2023. The State 1-hour ozone standard was exceeded six times in 2021, no times in 2022, and an unknown number of times in 2023. The State 8-hour ozone standard was exceeded 37 times in 2021, 26 times in 2022, and 21 times in 2023. The federal 8-hour standard was exceeded 34 times in 2021, 23 times in 2022, and 21 times in 2023. The CO, $NO_2$, and $SO_2$ standards were not exceeded in this area during the 3-year period.

## GREENHOUSE GAS EMISSIONS INVENTORY

An emissions inventory that identifies and quantifies the primary human-generated sources and sinks of GHGs is a well-recognized and useful tool for addressing climate change. This section summarizes the latest information on global, United States, and California GHG emission inventories.

### Global Emissions

Worldwide emissions of GHGs in 2020 totaled 22.9 billion metric tons (MT) of $CO_2e$. Global estimates are based on country inventories developed as part of the programs of the United Nations Framework Convention on Climate Change.[22]

### United States Emissions

In 2022, the year for which the most recent data are available, the United States emitted about 6,343.2 MMT $CO_2e$. Overall, net emissions increased by 1.3 percent from 2021 to 2022 and decreased by 16.7 percent from 2005 levels. The increase in total GHG emissions was driven by an increase in $CO_2$ emissions from fossil fuel combustion.

[22] United Nations Framework Convention on Climate Change (UNFCCC). 2021. GHG Data from UNFCCC. Website: unfccc.int/process-and-meetings/transparency-and-reporting/greenhouse-gas-data/ghg-data-unfccc/ghg-data-from-unfccc (accessed April 2024).

## Table E: Ambient Air Quality at Nearby Monitoring Stations

| Pollutant | Standard | 2021 | 2022 | 2023 |
|---|---|---|---|---|
| **Carbon Monoxide (CO)** | | | | |
| Maximum 1-hour concentration (ppm) | | 1.3 | 1.3 | 1.5 |
| Number of days exceeded: | State: > 20 ppm | 0 | 0 | 0 |
| | Federal: > 35 ppm | 0 | 0 | 0 |
| Maximum 8-hour concentration (ppm) | | 1.2 | 1.1 | 1.3 |
| Number of days exceeded: | State: > 9 ppm | 0 | 0 | 0 |
| | Federal: > 9 ppm | 0 | 0 | 0 |
| **Ozone ($O_3$)** | | | | |
| Maximum 1-hour concentration (ppm) | | 0.123 | 0.109 | 0.102 |
| Number of days exceeded: | State: > 0.09 ppm | 6 | 0 | ND |
| Maximum 8-hour concentration (ppm) | | 0.100 | 0.084 | 0.083 |
| Number of days exceeded: | State: > 0.07 ppm | 37 | 26 | 21 |
| | Federal: > 0.07 ppm | 34 | 23 | 21 |
| **Coarse Particulates ($PM_{10}$)** | | | | |
| Maximum 24-hour concentration (µg/m³) | | 208.8 | 127.0 | 104.0 |
| Number of days exceeded: | State: > 50 µg/m³ | 111 | 73 | ND |
| | Federal: > 150 µg/m³ | ND | 0 | 0 |
| Annual arithmetic average concentration (µg/m³) | | 43.2 | 36.2 | ND |
| Exceeded for the year: | State: > 20 µg/m³ | Yes | Yes | ND |
| | Federal: > 50 µg/m³ | No | No | ND |
| **Fine Particulates ($PM_{2.5}$)** | | | | |
| Maximum 24-hour concentration (µg/m³) | | 104.6 | 41.9 | 34.7 |
| Number of days exceeded: | Federal: > 35 µg/m³ | 22 | 4 | 0 |
| Annual arithmetic average concentration (µg/m³) | | 15.1 | 10.5 | 8.6 |
| Exceeded for the year: | State: > 12 µg/m³ | Yes | No | No |
| | Federal[1] > 12 µg/m³[a] | Yes | No | No |
| **Nitrogen Dioxide ($NO_2$)** | | | | |
| Maximum 1-hour concentration (ppm) | | 0.049 | 0.051 | 0.048 |
| Number of days exceeded: | State: > 0.250 ppm | 0 | 0 | 0 |
| Annual arithmetic average concentration (ppm) | | 0.008 | 0.009 | 0.008 |
| Exceeded for the year: | Federal: > 0.053 ppm | No | No | No |
| **Sulfur Dioxide ($SO_2$)[2]** | | | | |
| Maximum 1-hour concentration (ppm) | | 0.008 | 0.003 | 0.005 |
| Number of days exceeded: | State: > 0.25 ppm | 0 | 0 | 0 |
| Maximum 24-hour concentration (ppm) | | 0 | 0 | 0 |
| Number of days exceeded: | State: > 0.04 ppm | 0.003 | 0.001 | 0.002 |
| | Federal: > 0.14 ppm | 0 | 0 | 0 |
| Annual arithmetic average concentration (ppm) | | 0.0004 | 0.0003 | 0.0004 |
| Exceeded for the year: | Federal: > 0.030 ppm | No | No | No |

Sources: CARB (2023) and USEPA (2023).

[1] On February 7, 2024, the federal annual $PM_{2.5}$ standard was revised from 12.0 µg/m³ to 9.0 µg/m³. However, since the data presented in Table E is through 2022, it uses the 12.0 µg/m³ standard that was in effect through 2022.

[2] Data for $SO_2$ was taken from 3727 North First Street, Fresno monitoring station. All other data was taken from 908 North Villa Avenue, Clovis Monitoring Station.

µg/m³ = micrograms per cubic meter
CARB = California Air Resources Board
ND = No data. There were insufficient (or no) data to determine the value.
ppm = parts per million
USEPA = United States Environmental Protection Agency

In 2022, $CO_2$ emissions from fossil fuel combustion increased by 1 percent relative to the previous year. This increase in fossil fuel consumption emissions was due primarily to economic activity rebounding after the height of the COVID-19 pandemic. Of the five major sectors (e.g., residential and commercial, agricultural, industry, transportation, and electricity generation), transportation accounted for the highest amount of GHG emissions in 2022 (approximately 28 percent), with electricity generation second at 25 percent and emissions from industry third at 23 percent.[23]

### State of California Emissions

The State emitted approximately 381.3 MMT $CO_2e$ emissions in 2021, which was 12.1 MMT $CO_2e$ higher than 2020 levels and 49.7 MMT $CO_2e$ below the 2020 GHG limit of 431 MMT $CO_2e$.[24] CARB estimates that transportation was the source of approximately 38 percent of the State's GHG emissions in 2021. The next largest sources included industrial sources at approximately 19 percent and electricity generation at 16 percent. The remaining sources of GHG emissions were commercial and residential activities at 10 percent, agriculture at 8 percent, high GWP at 6 percent, and waste at 2 percent.[25]

[23] USEPA. 2024. Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2022. Website: https://www.epa.gov/system/files/documents/2024-04/us-ghg-inventory-2024-main-text_04-18-2024.pdf (accessed June 2024).

[24] CARB. 2023. *California Greenhouse Gas Emissions for 2000 to 2021, Trends of Emissions and Other Indicators Report*. Website: https://ww2.arb.ca.gov/sites/default/files/2023-12/2000_2021_ghg_inventory_trends.pdf (accessed June 2024).

[25] Ibid.

# METHODOLOGY

The methodology used to estimate air quality and GHG impacts is described below.

## CONSTRUCTION EMISSIONS

Construction activities can generate a substantial amount of air pollution. Construction activities are considered temporary; however, short-term impacts can contribute to exceedances of air quality standards. Construction activities include site preparation, earthmoving, and general construction. The emissions generated from these common construction activities include fugitive dust from soil disturbance, fuel combustion from mobile heavy-duty diesel- and gasoline-powered equipment, portable auxiliary equipment, and worker commute trips.

The California Emissions Estimator Model (CalEEMod) Version 2022.1 computer program was used to calculate emissions from on-site construction equipment and emissions from worker and vehicle trips to the site. Construction of the proposed project is anticipated to begin in 2024, which was included in CalEEMod. The construction duration of the proposed project is not yet known; therefore, this analysis utilizes a CalEEMod default construction schedule, which assumes construction would begin December 2024 and end October 2028. The proposed project would not require the import or export of soil but would require the demolition of approximately 6,500 square feet of existing buildings, which was also included in CalEEMod. This analysis also assumes the use of Tier 2 construction equipment and that the proposed project would comply with SJVAPCD Regulation VIII for fugitive dust control. Other detailed construction information is currently unavailable; therefore, this analysis utilizes CalEEMod default assumptions.

## CONSTRUCTION HEALTH RISK ASSESSMENT

A construction Health Risk Assessment (HRA), which evaluates construction-period health risk to off-site receptors, was performed for the proposed project, and the analysis is presented below. To estimate the potential cancer risk associated with construction of the proposed project from equipment exhaust (including DPM), a dispersion model was used to translate an emission rate from the source location to a concentration at the receptor location of interest (i.e., a nearby residence and worksites). Dispersion modeling varies from a simpler, more conservative screening-level analysis to a more complex and refined detailed analysis. This refined assessment was conducted using the CARB exposure methodology with the air dispersion modeling performed using the USEPA dispersion model AERMOD. The model provides a detailed estimate of exhaust concentrations based on site and source geometry, source emissions strength, distance from the source to the receptor, and meteorological data.

## OPERATIONAL EMISSIONS

The air quality analysis includes estimating emissions associated with long-term operation of the proposed project. Consistent with the SJVAPCD guidance for estimating emissions associated with land use development projects, the CalEEMod computer program was used to calculate the long-term operational emissions associated with the project.

As discussed in the Project Description section, the proposed project would include the construction of 266 single-family residential units and approximately 0.84 acre of park space. The proposed project analysis was conducted using land use codes *Single Family Housing* and *City Park*. Trip generation rates used in CalEEMod for the project were based on the project's TIA, which identifies that the proposed project would generate approximately 2,508 average daily trips. In addition, the following project features were included in CalEEMod:

- Installation of ENERGY STAR dishwashers;
- Installation of LED lighting;
- Use of drip irrigation;
- Installation of low-flow water fixtures;
- Use of low VOC paints;
- Recycling of up to 90 percent of construction waste; and
- Independent inspections at random for energy-efficiency verification.

In addition, consistent with SJVAPCD Rule 4901, this analysis assumes that the proposed project would not include any wood burning (or natural gas) fireplaces. Where project-specific data were not available, default assumptions (e.g., energy usage, water usage, and solid waste generation) from CalEEMod were used to estimate project emissions. CalEEMod output sheets are included in Attachment B.

## GREENHOUSE GAS ANALYSIS

GHG emissions associated with the project would occur over the short term from construction activities, consisting primarily of emissions from equipment exhaust. There would also be long-term GHG emissions associated with project-related area sources, energy consumption, water conveyance and treatment, and waste generation.

# THRESHOLDS OF SIGNIFICANCE

## AIR QUALITY

The *State CEQA Guidelines* indicate that a project would normally have a significant adverse air quality impact if project-generated pollutant emissions would do any of the following:

- Conflict with or obstruct implementation of the applicable air quality plan;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project is nonattainment under applicable federal or State ambient air quality standards;
- Expose sensitive receptors to substantial pollutant concentrations; or
- Result in other emissions (such as those leading to odors) affecting a substantial number of people.

### Regional Emissions Thresholds

The SJVAPCD defines emissions thresholds in the GAMAQI, established based on the attainment status of the air basin in regard to air quality standards for specific criteria pollutants. Because the concentration standards were set at a level that protects public health with an adequate margin of safety, these emission thresholds are regarded as conservative and would overstate an individual project's contribution to health risks. The related impacts are discussed further in the Project Impacts section. The SJVAPCD regional emission thresholds for construction and operation are shown in Table F.

### Table F: Regional Thresholds for Construction and Operational Emissions

| Emissions Source | Pollutant Emissions Threshold (tons per year) | | | | | |
|---|---|---|---|---|---|---|
| | CO | $NO_X$ | ROG | $SO_X$ | $PM_{10}$ | $PM_{2.5}$ |
| Construction | 100 | 10 | 10 | 27 | 15 | 15 |
| Operations | 100 | 10 | 10 | 27 | 15 | 15 |

Source: *Guidance for Assessing and Mitigating Air Quality Impacts* (SJVAPCD 2015).
CO = carbon monoxide
$NO_X$ = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
$PM_{10}$ = particulate matter less than 10 microns in size
ROG = reactive organic gas
SJVAPCD = San Joaquin Valley Air Pollution Control District
$SO_X$ = sulfur oxides

### Local Microscale Concentration Standards

The significance of localized project impacts under CEQA depends on whether ambient CO levels in the vicinity of the project are above or below State and federal CO standards. Because ambient CO levels are below the standards throughout the SJVAB, a project would be considered to have a significant CO impact if project emissions result in an exceedance of one or more of the 1-hour or 8-hour standards. The following are applicable local emission concentration standards for CO:

- California State 1-hour CO standard of 20 ppm
- California State 8-hour CO standard of 9 ppm

### Health Risk Thresholds

Both the State and federal governments have established health-based AAQS for seven air pollutants. For other air pollutants without defined significance standards, the definition of substantial pollutant concentrations varies. For TACs, "substantial" is taken to mean that the individual health risk exceeds a threshold considered to be a prudent risk management level.

The following limits for maximum individual cancer risk (MICR) and noncancer acute and chronic Hazard Index (HI) from project emissions of TACs are considered appropriate for use in determining the health risk for projects in the SJVAB:

- **MICR:** MICR is the estimated probability of a maximum exposed individual (MEI) contracting cancer as a result of exposure to TACs over a period of 30 years for adults and 9 years for children in residential locations, 350 days per year. The SJVAPCD's *Update to the District's Risk Management Policy to Address the California Office of Environmental Health Hazard Assessment (OEHHA) Revised Risk Assessment Guidance Document* states that emissions of TACs are considered significant if an HRA shows an increased risk of greater than 20 in 1 million.

- **Chronic HI:** Chronic HI is the ratio of the estimated long-term level of exposure to a TAC for a potential MEI to its chronic reference exposure level. The chronic HI calculations include multi-pathway consideration when applicable. The project would be considered significant if the cumulative increase in total chronic HI for any target organ system would exceed 1.0 at any receptor location.

- **Acute HI:** Acute HI is the ratio of the estimated maximum 1-hour concentration of a TAC for a potential MEI to its acute reference exposure level. The project would be considered significant if the cumulative increase in total acute HI for any target organ system would exceed 1.0 at any receptor location.

## GREENHOUSE GAS THRESHOLDS

The *State CEQA Guidelines* indicate that a project would normally have a significant adverse GHG emission impact if the project would:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or

- Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

Neither the City nor the SJVAPCD has developed or adopted numeric GHG significance thresholds. Therefore, this analysis evaluates the GHG emissions based on the project's consistency with applicable State GHG reduction goals.

# IMPACTS ANALYSIS

This section identifies the air quality and GHG emissions impacts associated with implementation of the proposed project.

## AIR QUALITY IMPACTS

Air pollutant emissions associated with the project would occur over the short term from construction activities and over the long term from operational activities associated with the proposed project.

### Consistency with Applicable Air Quality Plans

An air quality plan describes air pollution control strategies to be implemented by a city, county, or region classified as a nonattainment area. . As discussed above, the SJVAB is designated as non-attainment for $O_3$ and $PM_{2.5}$ for federal standards and non-attainment for $O_3$, $PM_{10}$, and $PM_{2.5}$ for State standards. The main purpose of the air quality plan is to bring the area into compliance with the requirements of the federal and State air quality standards. To bring the San Joaquin Valley into attainment, the SJVAPCD adopted the *2022 Plan for the 2015 8-Hour Ozone Standard* in December 2022 to satisfy Clean Air Act requirements and ensure attainment of the 75 parts per billion (ppb) 8-hour ozone standard.[26]

To ensure the SJVAB's continued attainment of the USEPA $PM_{10}$ standard, the SJVAPCD adopted the 2007 $PM_{10}$ Maintenance Plan in September 2007.[27] The SJVAPCD adopted the *2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards* in November 2018, to address the USEPA 1997 annual $PM_{2.5}$ standard of 15 µg/m$^3$ and 24-hour $PM_{2.5}$ standard of 65 µg/m$^3$, the 2006 24-hour $PM_{2.5}$ standard of 35 µg/m$^3$, and the 2012 annual $PM_{2.5}$ standard of 12 µg/m$^3$.[28]

For a project to be consistent with SJVAPCD air quality plans, the pollutants emitted from a project should not exceed the SJVAPCD emission thresholds or cause a significant impact on air quality. In addition, emission reductions achieved through implementation of offset requirements are a major component of the SJVAPCD air quality plans. As discussed below, construction of the proposed project would not result in the generation of criteria air pollutants that would exceed SJVAPCD thresholds of significance. In addition to the construction period thresholds of significance, the SJVAPCD has implemented Regulation VIII measures for dust control during construction. These control measures are intended to reduce the amount of $PM_{10}$ emissions during the construction period. Implementation of the fugitive dust control measures outlined in Regulatory Compliance Measure (RCM) AIR-1, would ensure that the proposed project complies with Regulation VIII, further reduces the short-term construction period air quality impacts, and ensures compliance with air

[26] SJVAPCD. 2016. *2016 Plan for the 2008 8-Hour Ozone Standard*. June 16. Website: www.valleyair.org/Air_Quality_Plans/Ozone-Plan-2016.htm (accessed June 2024).

[27] SJVAPCD. 2007. *2007 $PM_{10}$ Maintenance Plan and Request for Redesignation*. Website: www.valleyair.org/Air_Quality_Plans/docs/Maintenance%20Plan10-25-07.pdf (accessed June 2024).

[28] SJVAPCD. 2018. *2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards*. November 15. Website: http://valleyair.org/pmplans/documents/2018/pm-plan-adopted/2018-Plan-for-the-1997-2006-and-2012-PM2.5-Standards.pdf (accessed June 2024).

quality plans. In addition, as discussed below and shown in Table H, long-term operational emissions associated with the proposed project, including area, energy, and mobile source emissions, would also not exceed SJVAPCD established significance thresholds. Therefore, the proposed project would not conflict with or obstruct implementation of SJVAPCD air quality plans.

## Criteria Pollutant Analysis

The SJVAB is currently designated as nonattainment for the federal and State standards for $O_3$ and $PM_{2.5}$. In addition, the SJVAB is in nonattainment for the $PM_{10}$ standard. The SJVAB's nonattainment status is attributed to the region's development history. Past, present, and future development projects contribute to the region's adverse air quality impacts on a cumulative basis. By its very nature, air pollution is largely a cumulative impact. No single project is sufficient in size to, by itself, result in nonattainment of an ambient air quality standard. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality would be considered significant.

In developing thresholds of significance for air pollutants, the SJVAPCD considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions. The following analysis assesses the potential construction- and operation-related air quality impacts.

### *Construction Emissions*

During construction, short-term degradation of air quality may occur due to the release of particulate emissions generated by demolition, grading, paving, building, and other activities. Emissions from construction equipment are also anticipated and would include CO, $NO_x$, ROG, directly-emitted particulate matter ($PM_{2.5}$ and $PM_{10}$), and TACs such as diesel exhaust particulate matter.

Construction activities associated with the proposed project would include demolition, site preparation, grading, paving, and building activities. Construction-related effects on air quality from the proposed project would be greatest during the site preparation phase due to the disturbance of soils. If not properly controlled, these activities would temporarily generate particulate emissions. Sources of fugitive dust would include disturbed soils at the construction site. Unless properly controlled, vehicles leaving the site would deposit dirt and mud on local streets, which could be an additional source of airborne dust after it dries. $PM_{10}$ emissions would vary from day to day, depending on the nature and magnitude of construction activity and local weather conditions. $PM_{10}$ emissions would depend on soil moisture, silt content of soil, wind speed, and the amount of operating equipment. Larger dust particles would settle near the source, while fine particles would be dispersed over greater distances from the construction site.

Water or other soil stabilizers can be used to control dust, resulting in emission reductions of 50 percent or more. The SJVAPCD has implemented Regulation VIII measures for reducing fugitive dust emissions ($PM_{10}$). With the implementation of Regulation VIII measures, fugitive dust emissions from construction activities would not result in adverse air quality impacts.

In addition to dust-related $PM_{10}$ emissions, heavy trucks and construction equipment powered by gasoline and diesel engines would generate CO, $SO_2$, $NO_x$, ROG, and some soot particulate ($PM_{2.5}$ and $PM_{10}$) in exhaust emissions. If construction activities were to increase traffic congestion in the area, CO and other emissions from traffic would increase slightly while those vehicles idle in traffic. These emissions would be temporary in nature and limited to the immediate area surrounding the construction site.

Construction emissions were estimated for the project using CalEEMod and are summarized in Table G. Appendix A provides CalEEMod output sheets.

## Table G: Short-Term Regional Construction Emissions

| Construction Year | Pollutant Emissions (Tons per Year) | | | | | |
|---|---|---|---|---|---|---|
| | ROG | $NO_x$ | CO | $SO_x$ | $PM_{10}$ | $PM_{2.5}$ |
| 2024 | <0.1 | 0.3 | 0.2 | <0.1 | <0.1 | <0.1 |
| 2025 | 0.1 | 4.0 | 3.1 | <0.1 | 0.4 | 0.2 |
| 2026 | 0.1 | 2.6 | 2.3 | <0.1 | 0.2 | 0.1 |
| 2027 | 0.1 | 1.6 | 2.2 | <0.1 | 0.2 | 0.1 |
| 2028 | 1.7 | 1.3 | 1.1 | <0.1 | 0.1 | 0.1 |
| **Maximum Emissions** | **1.7** | **4.0** | **3.1** | **<0.1** | **0.2** | **0.2** |
| **SJVAPCD Threshold** | **10.0** | **10.0** | **100.0** | **27.0** | **15.0** | **15.0** |
| **Significant?** | **No** | **No** | **No** | **No** | **No** | **No** |

Source: Compiled by LSA (June 2024).
CO = carbon monoxide
$NO_x$ = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
$PM_{10}$ = particulate matter less than 10 microns in size
ROG = reactive organic gas
SJVAPCD = San Joaquin Valley Air Pollution Control District
$SO_x$ = sulfur oxides

As shown in Table G, construction emissions associated with the proposed project would not exceed the SJVAPCD's thresholds for ROG, $NO_x$, CO, $SO_x$, $PM_{10}$, and $PM_{2.5}$ emissions. In addition to the construction period thresholds of significance, the SJVAPCD has implemented Regulation VIII measures for dust control during construction. Implementation of Regulatory Compliance Measure (RCM) AIR-1 would ensure that the proposed project complies with Regulation VIII.

**RCM AIR-1** Consistent with San Joaquin Valley Air Pollution Control District (SJVAPCD) Regulation VIII (Fugitive $PM_{10}$ Prohibitions), the following controls are required to be included as specifications for the proposed project and implemented at the construction site:

- All disturbed areas, including storage piles, which are not being actively utilized for construction purposes, shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant or covered with a tarp or other suitable cover or vegetative ground cover.
- All on-site unpaved roads and off-site unpaved access roads shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant.

- All land clearing, grubbing, scraping, excavation, land leveling, grading, cut and fill, and demolition activities shall be effectively controlled of fugitive dust emissions utilizing application of water or by presoaking.
- When materials are transported off site, all material shall be covered, or effectively wetted to limit visible dust emissions, and at least 6 inches of freeboard space from the top of the container shall be maintained.
- All operations shall limit or expeditiously remove the accumulation of mud or dirt from adjacent public streets at the end of each workday. (The use of dry rotary brushes is expressly prohibited except where preceded or accompanied by sufficient wetting to limit the visible dust emissions. Use of blower devices is expressly forbidden.)
- Following the addition of materials to, or the removal of materials from, the surface of outdoor storage piles, said piles shall be effectively stabilized of fugitive dust emissions utilizing sufficient water or chemical stabilizer/ suppressant.

Construction emissions associated with the proposed project would be less than significant with implementation of RCM AIR-1. Therefore, construction of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State ambient air quality standard.

### *Operational Air Quality Impacts*

Long-term air pollutant emission impacts associated with the proposed project are those related to mobile sources (e.g., vehicle trips), energy sources (e.g., natural gas), and area sources (e.g., architectural coatings and the use of landscape maintenance equipment).

Mobile source emissions include ROG and $NO_X$ emissions that contribute to the formation of ozone. Additionally, $PM_{10}$ emissions result from running exhaust, tire and brake wear, and the entrainment of dust into the atmosphere from vehicles traveling on paved roadways.

Energy source emissions result from activities in buildings for which natural gas is used. The quantity of emissions is the product of usage intensity (i.e., the amount of natural gas) and the emission factor of the fuel source. However, the proposed project would not include natural gas and no natural gas demand is anticipated during operation of the proposed project.

Typically, area source emissions consist of direct sources of air emissions located at the project site, including architectural coatings and the use of landscape maintenance equipment. Area source emissions associated with the project would include emissions from the use of landscaping equipment and the use of consumer products.

Long-term operational emissions associated with the proposed project were calculated using CalEEMod. Table H provides the proposed project's estimated operational emissions. Appendix A provides CalEEMod output sheets.

## Table H: Project Operational Emissions

| Emission Type | Pollutant Emissions (Tons per Year) | | | | | |
|---|---|---|---|---|---|---|
| | ROG | $NO_X$ | CO | $SO_X$ | $PM_{10}$ | $PM_{2.5}$ |
| Mobile Sources | 1.4 | 1.3 | 9.1 | <0.1 | 2.2 | 0.6 |
| Area Sources | 2.3 | <0.1 | 1.4 | <0.1 | <0.1 | <0.1 |
| Energy Sources | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Total Project Emissions** | **3.7** | **1.3** | **10.5** | **<0.1** | **2.2** | **0.6** |
| SJVAPCD Threshold | 10.0 | 10.0 | 100.0 | 27.0 | 15.0 | 15.0 |
| **Exceeds Threshold?** | **No** | **No** | **No** | **No** | **No** | **No** |

Source: Compiled by LSA (June 2024).
Note: Some values may not appear to add correctly due to rounding.
CO = carbon monoxide
$NO_x$ = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
$PM_{10}$ = particulate matter less than 10 microns in size
ROG = reactive organic gas
SJVAPCD = San Joaquin Valley Air Pollution Control District
$SO_X$ = sulfur oxides

The results shown in Table H indicate the proposed project would not exceed the significance criteria for daily ROG, $NO_X$, CO, $SO_X$, $PM_{10}$, or $PM_{2.5}$ emissions. Therefore, operation of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or State AAQS.

### *Long-Term Microscale (CO Hot Spot) Analysis*

Vehicular trips associated with the proposed project would contribute to congestion at intersections and along roadway segments in the vicinity of the proposed project site. Localized air quality impacts would occur when emissions from vehicular traffic increase as a result of the proposed project. The primary mobile-source pollutant of local concern is CO, a direct function of vehicle idling time and, thus, of traffic flow conditions. CO transport is extremely limited; under normal meteorological conditions, it disperses rapidly with distance from the source. However, under certain extreme meteorological conditions, CO concentrations near a congested roadway or intersection may reach unhealthful levels, affecting local sensitive receptors (e.g., residents, schoolchildren, the elderly, and hospital patients).

Typically, high CO concentrations are associated with roadways or intersections operating at unacceptable levels of service or with extremely high traffic volumes. In areas with high ambient background CO concentrations, modeling is recommended to determine a project's effect on local CO levels.

An assessment of project-related impacts on localized ambient air quality requires that future ambient air quality levels be projected. Ambient CO levels monitored at the Clovis air quality monitoring stations, the closest stations to the project site, showed a highest recorded 1-hour concentration of 1.5 ppm (the State standard is 20 ppm) and a highest 8-hour concentration of 1.3 ppm (the State standard is 9 ppm) during the past 3 years (Table E). The highest CO concentrations would normally occur during peak traffic hours; hence, CO impacts calculated under peak traffic conditions represent a worst-case analysis.

Based on the project's TIA, the proposed project would result in 186 a.m. and 250 p.m. peak-hour trips. With implementation of the recommended improvements outlined in the TIA, the proposed project would not result in any operational deficiencies to the surrounding roadway system. The evaluation of the study area intersections shows that the addition of traffic associated with the proposed project is not expected to create a significant level of service changes. Therefore, given the extremely low level of CO concentrations in the project area and the lack of traffic impacts at any intersections, project-related vehicles are not expected to result in CO concentrations exceeding the State or federal CO standards. No CO hot spots would occur, and the project would not result in any project-related impacts on CO concentrations.

### Health Risk on Nearby Sensitive Receptors

Sensitive receptors are defined as residential uses, schools, daycare centers, nursing homes, and medical centers. Individuals particularly vulnerable to diesel particulate matter are children, whose lung tissue is still developing, and the elderly, who may have serious health problems that can be aggravated by exposure to diesel particulate matter. The project site is surrounded primarily by agricultural uses with some residential and commercial uses. The closest sensitive receptors to the project site include single-family residences located approximately 75 feet west of the project site and 100 feet north of the project site.

A construction HRA, which evaluates construction-period health risk to off-site receptors, was performed for the proposed project. Table I, below, identifies the results of the analysis assuming the use of Tier 2 construction equipment as proposed by the project. Model snapshots of the sources are shown in Appendix B.

**Table I: Health Risks from Project Construction to Off-Site Receptors**

| Location | Carcinogenic Inhalation Health Risk in One Million | Chronic Inhalation Hazard Index | Acute Inhalation Hazard Index |
|---|---|---|---|
| Residential Receptor Risk | 9.92 | 0.010 | 0.000 |
| Worker Receptor Risk | 6.02 | 0.010 | 0.000 |
| School Receptor | 0.24 | <0.001 | 0.000 |
| **SJVAPCD Significance Threshold** | **20.0 in one million** | **1.0** | **1.0** |
| **Significant?** | **No** | **No** | **No** |

Source: LSA (June 2024).
SJVAPCD = San Joaquin Valley Air Pollution Control District

As shown in Table I, the maximum cancer risk for the residential receptor MEI would be 9.92 in one million, which would not exceed the SJVAPCD cancer risk threshold of 20 in one million. The worker receptor risk would be lower at 6.02 in one million and the school receptor risk would be 0.24 in one million, which would also not exceed the SJVAPCD cancer risk thresholds. The total chronic hazard index would be 0.010 for the residential receptor MEI and worker receptor MEI and less than 0.001 for the school receptor MEI, which are all below the threshold of 1.0. In addition, the total acute hazard index would be nominal (0.000), which would also not exceed the threshold of 1.0. Therefore, construction of the proposed project would not exceed SJVAPCD thresholds and would

not expose nearby sensitive receptors to substantial pollutant concentrations. No significant health risk would occur from project construction emissions.

The proposed project would include the construction of a 266-unit single-family residential development. As identified in Table H, project operational emissions of criteria pollutants would be below SJVAPCD significance thresholds; thus, they are not likely to have a significant impact on sensitive receptors. In addition, the proposed project would be required to implement District Rule 9510, Indirect Source Review (ISR). Implementation of Rule 9510 would reduce operational emissions of $NO_X$ and $PM_{10}$ by 33.3 percent and 50 percent, respectively. Compliance with SJVAPCD rules would further limit doses and exposures, reducing potential health risk related to vehicle and equipment emissions to a level that is not significant. Once the proposed project is constructed, the proposed project would not be a source of substantial emissions. Therefore, implementation of the proposed project would not result in new sources of TACs. Therefore, the project would not expose sensitive receptors to substantial levels of TACs.

### Odors

The SJVAPCD addresses odor criteria within the GAMAQI. The district has not established a rule or standard regarding odor emissions, rather, the district has a nuisance rule: "Any project with the potential to frequently expose members of the public to objectionable odors should be deemed to have a significant impact."

During project construction, some odors may be present due to diesel exhaust. However, these odors would be temporary and limited to the construction period. The proposed uses are not anticipated to emit any objectionable odors. Any odors in general would be confined mainly to the project site and would readily dissipate. Therefore, the proposed project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

### Naturally Occurring Asbestos

The project is in Fresno County, which is among the counties found to have serpentine and ultramafic rock in their soils.[29] However, according to the California Geological Survey, no such rock has been identified in the project vicinity. In addition, the proposed project would require demolition of the existing residential uses. As such, demolition activities may expose asbestos used in building materials; however, the proposed project would be required to comply with the SJVAPCD's rules related to demolition, including SJVAPCD Rule 3050: Asbestos Removal Fees and Rule 4002: National Emission Standards for Hazardous Air Pollutants, which would help reduce asbestos exposure. Therefore, with compliance of SJVAPCD Rules 3050 and 4002, the potential risk for naturally occurring asbestos (NOA) during project construction is small and would not be significant.

[29] California Department of Conservation (DOC). n.d. California Geological Survey. Asbestos. Website: https://www.conservation.ca.gov/cgs/minerals/mineral-hazards (accessed June 2024).

### Valley Fever

The closest sensitive receptors to the project site include single-family residences located approximately 75 feet west of the project site and 100 feet north of the project site. Except under high wind conditions, this distance is sufficient that particulate matter would settle prior to reaching the nearest sensitive receptor. In addition, crosswinds influenced by the adjacent roadways would help dissipate any particulate matter associated with the construction phase of the project. Therefore, any Valley fever spores suspended with the dust would not be anticipated to reach the sensitive receptors. However, during project construction, it is possible that workers could be exposed to Valley fever through fugitive dust. Dust control measures, consistent with SJVAPCD Regulation VIII, would reduce the exposure to the workers and sensitive receptors. Therefore, dust from the construction of the project is not anticipated to significantly add to the existing exposure of people to Valley fever.

## GREENHOUSE GAS IMPACTS

This section describes the potential GHG impacts associated with implementation the proposed project.

### Generation of Greenhouse Gas Emissions

This section describes the proposed project's construction- and operational-related GHG emissions and contribution to global climate change.

#### *Short-Term Greenhouse Gas Emissions*

Construction activities associated with the construction of residential and nonresidential development capacity would cause short-term GHG emissions. Construction activities with the proposed project would produce combustion emissions from various sources. During construction, GHGs would be emitted through the operation of construction equipment and from worker and builder supply vendor vehicles, each of which typically use fossil-based fuels to operate. The combustion of fossil-based fuels creates GHGs such as $CO_2$, $CH_4$, and $N_2O$. Furthermore, $CH_4$ is emitted during the fueling of heavy equipment. Exhaust emissions from on-site construction activities would vary daily as construction activity levels change.

The SJVAPCD does not have an adopted threshold of significance for construction-related GHG emissions. However, lead agencies are encouraged to quantify and disclose GHG emissions that would occur during construction. Using CalEEMod, it is estimated that the annual emissions associated with construction of the proposed project would be approximately 1,545.0 metric tons of $CO_2e$ per year. Construction GHG emissions were amortized over the life of the project (assumed to be 30 years) and added to the operational emissions. When annualized over the life of the project, amortized construction emissions would be approximately 51.5 MT $CO_2e$ per year.

#### *Long-Term Greenhouse Gas Emissions*

Long-term GHG emissions are typically generated from mobile sources (e.g., vehicle and truck trips), area sources (e.g., maintenance activities and landscaping), indirect emissions from sources associated with energy consumption, waste sources (land filling and waste disposal), and water sources (water supply and conveyance, treatment, and distribution). Mobile-source GHG emissions

would include project-generated vehicle trips to and from the project. Area-source emissions would be associated with activities such as landscaping and maintenance on the project site. Energy source emissions would be generated at off-site utility providers as a result of increased electricity demand generated by the project. Waste source emissions generated by the proposed project include energy generated by land filling and other methods of disposal related to transporting and managing project generated waste. In addition, water source emissions associated with the proposed project are generated by water supply and conveyance, water treatment, water distribution, and wastewater treatment.

Following guidance from the SJVAPCD, GHG emissions for operation of the project were calculated using CalEEMod. Based on the analysis results, summarized in Table J, the proposed project would result in emissions of approximately 2,650.4 MT $CO_2e$ per year. These estimated emissions are provided for informational purposes, and the significance of the proposed project is further analyzed below. CalEEMod output sheets are provided in Attachment B.

### Table J: Project Greenhouse Gas Emissions

| Emission Type | Operational Emissions (Metric Tons per Year) | | | |
|---|---|---|---|---|
| | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$ |
| Mobile Sources | 2,225.3 | 0.1 | 0.1 | 2,266.2 |
| Area Sources | 6.6 | <0.1 | <0.1 | 6.7 |
| Energy Sources | 229.7 | <0.1 | <0.1 | 231.9 |
| Water Sources | 12.3 | 0.3 | <0.1 | 21.3 |
| Waste Sources | 21.1 | 2.1 | 0.0 | 72.8 |
| Amortized Construction Emissions | | | | 51.5 |
| **Total Operational Emissions** | | | | **2,650.4** |

Source: Compiled by LSA (June 2024).
$CH_4$ = methane
$CO_2$ = carbon dioxide
$CO_2e$ = carbon dioxide equivalent
$N_2O$ = nitrous oxide

As discussed, the SJVAPCD has not established a numeric threshold for GHG emissions. The significance of GHG emissions may be evaluated based on locally adopted quantitative thresholds or consistency with a regional GHG reduction plan (such as a Climate Action Plan [CAP]). Neither the City nor the SJVAPCD has developed or adopted numeric GHG significance thresholds. Therefore, the proposed project was analyzed for consistency with the 2022 Scoping Plan.

The 2022 Scoping Plan includes key project attributes that reduce operational GHG emissions in Appendix D, Local Actions,[30] of the 2022 Scoping Plan. As discussed in Appendix D of the 2022 Scoping Plan, absent consistency with an adequate, geographically specific GHG reduction plan such as a CEQA-qualified CAP, the first approach the State recommends for determining whether a proposed residential or mixed-use residential development would align with the State's climate goals is to examine whether the project includes key project attributes that reduce operational GHG emissions.

30 CARB. 2022a. *2022 Scoping Plan Appendix D Local Actions.* November. Website: https://ww2.arb.ca.gov/sites/default/files/2022-11/2022-sp-appendix-d-local-actions.pdf (accessed June 2024).

The project's consistency with key project attributes from the 2022 Scoping Plan that would be applicable to residential and mixed-use development is shown in Table K.

**Table K: Project Consistency with the 2022 Scoping Plan Key Residential and Mixed-Use Project Attributes that Reduce GHGs**

| Priority Areas | Key Project Attribute | Project Consistency |
|---|---|---|
| **Transportation Electrification** | Provides EV charging infrastructure that, at minimum, meets the most ambitious voluntary standard in the CALGreen Code at the time of project approval | ***Consistent.*** CALGreen Code requires provision of infrastructure to accommodate EV chargers. The proposed project would install a breaker and wiring for EV at each residence, consistent with CALGreen requirements. Therefore, the proposed project would be consistent with this key project attribute. |
| **VMT Reduction** | Is located on infill sites that are surrounded by existing urban uses and reuses or redevelops previously undeveloped or underutilized land that is presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer) | ***Not consistent***. The project site is surrounded primarily by agricultural uses with some residential and commercial uses. The surrounding residential uses are presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer). However, as described in the TIA, the project's vehicle miles traveled (VMT) was calculated to be 14.9 VMT per capita, 5.5 percent higher than the City's VMT per capita threshold. As further discussed in the TIA, the project is consistent with the City's General Plan. While preparation of the General Plan, an Environmental Impact Report was prepared, along with a statement of Overriding consideration, that discussed the potential environmental impacts and required mitigation measures to be implemented/followed by all future projects that are consistent with the General Plan. The project will be conditioned to implement and follow these measures. Therefore, the though project will have a significant and unavoidable transportation impact under CEQA, no further mitigation measure would be required for the project. However, because the proposed project would result in a significant and unavoidable VMT impact, the proposed project would not be consistent with this key project attribute. |
| | Does not result in the loss or conversion of natural and working lands | ***Not consistent.*** The project site is currently being used for residential and agricultural uses including an active orchard. The project site is zoned Exclusive Agricultural with a minimum 20-acre lot size. Based on California DOC FMMP information, the project site is designated as Prime Farmland and Farmland of Statewide Importance. According to the County of Fresno Assessor's Map, no portion of the project site is under an active Williamson Act contract. A site-specific LESA model was prepared for the project, which found that the conversion of the agricultural land (Prime Farmland, Farmland of Statewide Importance, and Farmland of Local Importance) on the project site to a non-agricultural use would constitute a significant impact. Therefore, the proposed project |

## Table K: Project Consistency with the 2022 Scoping Plan Key Residential and Mixed-Use Project Attributes that Reduce GHGs

| Priority Areas | Key Project Attribute | Project Consistency |
|---|---|---|
| | | would not be consistent with this key project attribute. |
| | Consists of transit-supportive densities (minimum of 20 residential dwelling units per acre) or is in proximity to existing transit stops (within a half mile) or satisfies more detailed and stringent criteria specified in the region's SCS | ***Not consistent.*** The proposed project would include the construction of 266 single-family units on a 37-acre project site. Therefore, the proposed project would result in less than 20 residential dwelling units per acre. In addition, the project site is not located within 0.5 mile of a transit stop. As such, the proposed project would not be consistent with this key project attribute. |
| | Reduces parking requirements by eliminating parking requirements or including maximum allowable parking ratios (i.e., the ratio of parking spaces to residential units or square feet); or providing residential parking supply at a ratio of less than one parking space per dwelling unit; or for multifamily residential development, requiring parking costs to be unbundled from costs to rent or own a residential unit | ***Consistent.*** The proposed project would consist of 266 single-family units and would be consistent with the City's parking requirements for single homes. The proposed project would not provide additional on-site street parking space. Thus, the project would be consistent with the intent of this key project attribute. |
| | At least 20 percent of units included are affordable to lower-income residents | ***Consistent.*** The proposed project would not include affordable residential units. Although the proposed project would not include affordable housing, the proposed project would provide needed single-family housing. Therefore, the proposed project would be consistent with this key project attribute. |
| | Results in no net loss of existing affordable units | ***Consistent.*** The proposed project would demolish two existing residential uses; however, the proposed project would not result in the removal of any existing affordable units. As such, the proposed project would be consistent with this key project attribute. |
| **Building Decarbonization** | Uses all-electric appliances without any natural gas connections and does not use propane or other fossil fuels for space heating, water heating, or indoor cooking | ***Consistent.*** The proposed project would be all-electric, which is consistent with this key project attribute. |

Source: Compiled by LSA (June 2024).
CALGreen Code = California Green Building Standards Code
DOC = California Department of Conservation
EV = electric vehicle
FMMP = Farmland Mapping and Monitoring Program
GHG = greenhouse gas
GPA = General Plan Amendment
LESA = Land Evaluation and Site Assessment
SCS = Sustainable Communities Strategy
VMT = vehicle miles traveled.

Residential and mixed-use projects that have all of the key project attributes as outlined in Table K would be considered to accommodate growth in a manner consistent with State GHG reduction and equity prioritization goals as outlined in the 2022 Scoping Plan. As demonstrated in Table K, the proposed project would not be consistent with the 2022 Scoping Plan key residential and mixed-use project attributes related to VMT reduction.

As discussed in Table K and in the project's TIA, the proposed project would result in a significant and unavoidable VMT impact. As previously noted, the project is consistent with the City's General Plan. During preparation of the General Plan, an EIR was prepared, along with a Statement of Overriding Consideration, that discussed the potential environmental impacts and required mitigation measures to be implemented/followed by all future projects that are consistent with the General Plan. The proposed project would be conditioned to implement and follow these measures. Therefore, though proposed project would have a significant and unavoidable transportation impact under CEQA, no further mitigation measure would be required for the project related to VMT.

The proposed project would implement required VMT mitigation measures as identified in the City's General Plan EIR. However, they would not reduce the impact to a less than significant level. Additionally, the proposed project would result in less than 20 residential dwelling units per acre and is not located within 0.5 mile of a transit stop. Further, as determined by the site-specific Land Evaluation and Site Assessment (LESA), conversion of the agricultural land (Prime Farmland, Farmland of Statewide Importance, and Farmland of Local Importance) on the project site to a non-agricultural use would constitute a significant impact. There are no additional feasible mitigation measures that would reduce this impact. As such, the proposed project would not be consistent with all project attributes in the 2022 Scoping Plan GHG emission thresholds. As such, the proposed project would result in the generation of GHG emissions would have a significant and unavoidable impact on the environment.

## Consistency with Greenhouse Gas Emissions Reduction Plans

An evaluation of the proposed project's consistency with the 2022 Scoping Plan and the 2024–2050 RTP/SCS is provided below.

### *2022 Scoping Plan*

The following discussion evaluates the proposed project according to the goals of the 2022 Scoping Plan, EO B-30-15, AB 1279, SB 32, and AB 197.

EO B-30-15 added the immediate target of reducing GHG emissions to 40 percent below 1990 levels by 2030. CARB released a second update to the Scoping Plan, the 2017 Scoping Plan, to reflect the 2030 target set by EO B-30-15 and codified by SB 32. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in EO B-30-15. SB 32 builds on AB 32 and keeps us on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels. The companion bill to SB 32, AB 197, provides additional direction to the CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 intended to provide easier public access to air emissions data that are collected by CARB was posted in December 2016. AB 1279 establishes State policy to achieve net zero GHG emissions no later than 2045 and for

Statewide anthropogenic GHG emissions to be reduced to at least 85 percent below 1990 levels by 2045.

In addition, the 2022 Scoping Plan assesses progress toward the statutory 2030 target, while laying out a path to achieving carbon neutrality no later than 2045. The 2022 Scoping Plan focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others, and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

The 2022 Scoping Plan focuses on building clean energy production and distribution infrastructure for a carbon-neutral future, including transitioning existing energy production and transmission infrastructure to produce zero-carbon electricity and hydrogen, and utilizing biogas resulting from wildfire management or landfill and dairy operations, among other substitutes. The 2022 Scoping Plan states that in almost all sectors, electrification will play an important role. The 2022 Scoping Plan evaluates clean energy and technology options and the transition away from fossil fuels, including adding four times the solar and wind capacity by 2045 and about 1,700 times the amount of current hydrogen supply. As discussed in the 2022 Scoping Plan, EO N-79-20 requires that all new passenger vehicles sold in California will be zero-emission by 2035, and all other fleets will have transitioned to zero-emission as fully possible by 2045, which will reduce the percentage of fossil fuel combustion vehicles.

Energy efficient measures are intended to maximize energy efficiency building and appliance standards, pursue additional efficiency efforts including new technologies and new policy and implementation mechanisms, and pursue comparable investment in energy efficiency from all retail providers of electricity in California. In addition, these measures are designed to expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings. As identified above, buildout of the proposed project would be required to comply with the latest Title 24 and CALGreen Code standards regarding water efficiency and energy conservation requirements. Additionally, the proposed project would be all-electric. The elimination of natural gas in new development would help projects implement their "fair share" of achieving long-term 2045 carbon neutrality consistent with State goals. As such, if a project does not utilize natural gas, a lead agency can conclude that it would be consistent with achieving the 2045 neutrality goal and will not have a cumulative considerable impact on climate change.[31] In addition, the proposed project would include the following sustainable features: installation of ENERGY STAR dishwashers, bathroom exhaust fans, water heaters, and windows; installation of high-efficiency HVAC systems and programmable thermostats; installation of solar on each residence per CALGreen Code requirements; installation of cool roof tiles and high-performance, formaldehyde-free insulation; installation of MERV-8 filters; installation of LED lighting; and independent inspections at random for

[31] Bay Area Air Quality Management District (BAAQMD). 2022. *Justification Report: CEQA Thresholds for Evaluating the Significance of Climate Impacts From Land Use Projects and Plans.* April. Website: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/appendix-b-thresholds-for-evaluating-significance-of-climate-impacts_final-pdf (accessed June 2024).

energy-efficiency verification. Therefore, the proposed project would comply with applicable energy measures.

Water conservation and efficiency measures are intended to continue efficiency programs and use cleaner energy sources to move and treat water. Increasing the efficiency of water transport and reducing water use would reduce GHG emissions. As noted above, buildout associated with the proposed project would be required to comply with the latest Title 24 and CALGreen Code standards, which include a variety of different measures, including reduction of wastewater and water use. In addition, the proposed project would use drip irrigation and install low-flow water fixtures. Therefore, the proposed project would not conflict with any of the water conservation and efficiency measures.

The goal of transportation and motor vehicle measures is to develop regional GHG emissions reduction targets for passenger vehicles. Specific regional emission targets for transportation emissions would not directly apply to the proposed project. The Pavley II (LEV III) Advanced Clean Cars Program will reduce GHG emissions from new cars by 34 percent from 2016 levels by 2025, resulting in a 3 percent decrease in average vehicle emissions for all vehicles by 2020. Vehicles traveling to the project site would comply with the Pavley II (LEV III) Advanced Clean Cars Program. Therefore, the proposed project would not conflict with the identified transportation and motor vehicle measures.

### *Fresno COG 2022 RTP/SCS*

The Fresno COG RTP/SCS reflects transportation planning for Fresno County through 2046. The vision, goals, and policies in the 2022 RTP are intended to serve as the foundation for both short and long-term planning and guide implementation activities. The core vision in the 2022 RTP is to create a region of diverse, safe, resilient, and accessible transportation options that improve the quality of life for all residents by fostering sustainability, equity, a vibrant economy, clean air, and healthy communities. The 2022 RTP contains transportation projects to help more efficiently distribute population, housing, and employment growth, as well as forecast development that is generally consistent with regional-level general plan data. The actions in the 2022 RTP address all transportation modes (e.g., highways, local streets and roads, mass transportation, rail, bicycle, and aviation facilities and services) and consists of short and long-term activities that address regional transportation needs. While the actions are organized by the five key policy areas, many of them support multiple goals and policies. Some actions are intended to support the SCS and reduce GHG emissions directly, while others are focused on the RTP's broader goals. The 2022 RTP does not require that local General Plans, Specific Plans, or zoning be consistent with the 2022 RTP, but provides incentives for consistency for governments and developers.

The proposed project would not interfere with the Fresno COG's ability to achieve the region's GHG reductions. Furthermore, the proposed project is not regionally significant per *State CEQA Guidelines* Section 15206, and it would not conflict with the 2022 RTP targets because those targets were established and are applicable on a regional level. The proposed project would include the construction of 266 single-family residential units. As such, the proposed project land uses would be consistent with the growth assumptions used in the 2022 RTP. Therefore, it is anticipated that

implementation of the proposed project would not interfere with Fresno COG's ability to implement the regional strategies outlined in the 2022 RTP.

### *Summary*

As described above, the proposed project would generally comply with existing State regulations adopted to achieve the overall GHG emissions reduction goals identified in the 2022 RTP. However, as described above, the proposed project would not be consistent with the 2022 Scoping Plan key residential and mixed-use project attributes related to VMT reduction. As such, the proposed project would not contribute to its "fair share" of emission reductions required to support achieving long-term State GHG reduction goals due to project's significant and unavoidable VMT impact. Therefore, the proposed project would conflict with the plans and policies adopted for the purpose of reducing the emissions of greenhouse gases, including the CARB 2022 Scoping Plan, Executive Order B-30-15, SB 32, and AB 1279.

## CONCLUSION

Based on the analysis presented above, construction and operation of the proposed project would not result in the generation of criteria air pollutants that would exceed SJVAPCD thresholds of significance. In addition, the proposed project is not expected to produce significant emissions that would affect nearby sensitive receptors. The project would also not result in other emissions (such as those leading to odors) affecting a substantial number of people. Operation of the proposed project would generate GHG emissions that would have a significant and unavoidable impact on the environment. In addition, the proposed project would be consistent with the growth assumptions used in the Fresno COG 2022 RTP/SCS, but would not be consistent with the goals of the 2022 Scoping Plan.

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# APPENDIX A

# CALEEMOD OUTPUT SHEETS

# De Young Properties Peach & Behymer Project Custom Report

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. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

3.2. Demolition (2024) - Mitigated

3.3. Demolition (2025) - Unmitigated

3.4. Demolition (2025) - Mitigated

3.5. Site Preparation (2025) - Unmitigated

3.6. Site Preparation (2025) - Mitigated

3.7. Grading (2025) - Unmitigated

3.8. Grading (2025) - Mitigated

3.9. Building Construction (2025) - Unmitigated

3.10. Building Construction (2025) - Mitigated

3.11. Building Construction (2026) - Unmitigated

3.12. Building Construction (2026) - Mitigated

3.13. Building Construction (2027) - Unmitigated

3.14. Building Construction (2027) - Mitigated

3.15. Building Construction (2028) - Unmitigated

3.16. Building Construction (2028) - Mitigated

3.17. Paving (2028) - Unmitigated

3.18. Paving (2028) - Mitigated

3.19. Architectural Coating (2028) - Unmitigated

3.20. Architectural Coating (2028) - Mitigated

. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mltigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmltigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

. User Changes to Default Data

# . Basic Project Information

## .1. Basic Project Information

| Data Field | Value |
|---|---|
| Project Name | De Young Properties Peach & Behymer Project |
| Construction Start Date | 12/2/2024 |
| Operational Year | 2028 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.70 |
| Precipitation (days) | 21.2 |
| Location | 36.88062613315833, -119.71577194386307 |
| County | Fresno |
| City | Unincorporated |
| Air District | San Joaquin Valley APCD |
| Air Basin | San Joaquin Valley |
| TAZ | 2569 |
| EDFZ | 5 |
| Electric Utility | Pacific Gas & Electric Company |
| Gas Utility | Pacific Gas & Electric |
| App Version | 2022.1.1.24 |

## .2. Land Use Types

| Land Use Subtype | Size | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Single Family Housing | 266 | Dwelling Unit | 36.2 | 518,700 | 3,115,620 | — | 851 | — |
| City Park | 0.84 | Acre | 0.84 | 0.00 | 36,590 | 36,590 | — | — |

### .3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector | # | Measure Title |
|---|---|---|
| Construction | C-6 | Use Diesel Particulate Filters |
| Energy | E-2 | Require Energy Efficient Appliances |
| Energy | E-7* | Require Higher Efficacy Public Street and Area Lighting |
| Energy | E-22* | Obtain Third-party HVAC Commissioning and Veri cation of Energy Savings |
| Water | W-4 | Require Low-Flow Water Fixtures |
| Water | W-5 | Design Water-Efficient Landscapes |
| Waste | S-4* | Recycle Demolished Construction Material |

Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit. | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 59.1 | 48.9 | 36.1 | 0.06 | 1.36 | 3.70 | 5.06 | 1.23 | 1.45 | 2.68 | — | 6,720 | 6,720 | 0.27 | 0.10 | 6,745 |
| Mit. | 59.1 | 48.9 | 36.1 | 0.06 | 0.20 | 3.70 | 3.90 | 0.18 | 1.45 | 1.64 | — | 6,720 | 6,720 | 0.27 | 0.10 | 6,745 |
| % Reduced | — | — | — | — | 85% | — | 23% | 85% | — | 39% | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 59.1 | 48.9 | 36.0 | 0.06 | 1.36 | 7.76 | 8.88 | 1.23 | 3.96 | 4.98 | — | 6,706 | 6,706 | 0.27 | 0.10 | 6,731 |
| Mit. | 59.1 | 48.9 | 36.0 | 0.06 | 0.20 | 7.76 | 7.93 | 0.18 | 3.96 | 4.11 | — | 6,706 | 6,706 | 0.27 | 0.10 | 6,731 |
| % Reduced | — | — | — | — | 85% | — | 11% | 85% | — | 17% | — | — | — | — | — | — |
| Average Daily Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 9.23 | 22.1 | 17.3 | 0.03 | 0.67 | 1.62 | 2.29 | 0.62 | 0.68 | 1.29 | — | 3,244 | 3,244 | 0.13 | 0.07 | 3,264 |
| Mit. | 9.23 | 22.1 | 17.3 | 0.03 | 0.10 | 1.62 | 1.72 | 0.09 | 0.68 | 0.77 | — | 3,244 | 3,244 | 0.13 | 0.07 | 3,264 |
| % Reduced | — | — | — | — | 85% | — | 25% | 85% | — | 40% | — | — | — | — | — | — |
| Annual Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 1.69 | 4.03 | 3.15 | 0.01 | 0.12 | 0.30 | 0.42 | 0.11 | 0.12 | 0.24 | — | 537 | 537 | 0.02 | 0.01 | 540 |
| Mit. | 1.69 | 4.03 | 3.15 | 0.01 | 0.02 | 0.30 | 0.31 | 0.02 | 0.12 | 0.14 | — | 537 | 537 | 0.02 | 0.01 | 540 |
| % Reduced | — | — | — | — | 85% | — | 25% | 85% | — | 40% | — | — | — | — | — | — |

## 2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 1.42 | 48.9 | 36.1 | 0.06 | 1.36 | 3.70 | 5.06 | 1.23 | 1.45 | 2.68 | — | 6,720 | 6,720 | 0.27 | 0.10 | 6,745 |
| 2026 | 1.02 | 19.7 | 17.8 | 0.03 | 0.69 | 0.62 | 1.31 | 0.65 | 0.15 | 0.80 | — | 3,333 | 3,333 | 0.12 | 0.10 | 3,368 |
| 2027 | 1.00 | 19.6 | 17.6 | 0.03 | 0.69 | 0.62 | 1.31 | 0.65 | 0.15 | 0.80 | — | 3,313 | 3,313 | 0.12 | 0.09 | 3,347 |
| 2028 | 59.1 | 19.6 | 17.4 | 0.03 | 0.69 | 0.62 | 1.31 | 0.65 | 0.15 | 0.80 | — | 3,294 | 3,294 | 0.12 | 0.09 | 3,327 |

| Daily - Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2024 | 0.78 | 25.1 | 18.7 | 0.03 | 0.79 | 0.19 | 0.98 | 0.71 | 0.04 | 0.75 | — | 3,615 | 3,615 | 0.15 | 0.05 | 3,633 |
| 2025 | 1.41 | 48.9 | 36.0 | 0.06 | 1.36 | 7.76 | 8.88 | 1.23 | 3.96 | 4.98 | — | 6,706 | 6,706 | 0.27 | 0.10 | 6,731 |
| 2026 | 0.98 | 19.7 | 17.2 | 0.03 | 0.69 | 0.62 | 1.31 | 0.65 | 0.15 | 0.80 | — | 3,270 | 3,270 | 0.13 | 0.10 | 3,302 |
| 2027 | 0.94 | 19.7 | 17.0 | 0.03 | 0.69 | 0.62 | 1.31 | 0.65 | 0.15 | 0.80 | — | 3,251 | 3,251 | 0.13 | 0.10 | 3,283 |
| 2028 | 59.1 | 19.7 | 16.8 | 0.03 | 0.69 | 0.62 | 1.31 | 0.65 | 0.15 | 0.80 | — | 3,233 | 3,233 | 0.13 | 0.10 | 3,265 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.05 | 1.47 | 1.10 | < 0.005 | 0.05 | 0.01 | 0.06 | 0.04 | < 0.005 | 0.04 | — | 212 | 212 | 0.01 | < 0.005 | 213 |
| 2025 | 0.79 | 22.1 | 17.3 | 0.03 | 0.67 | 1.62 | 2.29 | 0.62 | 0.68 | 1.29 | — | 3,244 | 3,244 | 0.13 | 0.05 | 3,264 |
| 2026 | 0.70 | 14.1 | 12.3 | 0.02 | 0.50 | 0.43 | 0.93 | 0.46 | 0.10 | 0.57 | — | 2,348 | 2,348 | 0.09 | 0.07 | 2,372 |
| 2027 | 0.69 | 14.0 | 12.2 | 0.02 | 0.50 | 0.43 | 0.93 | 0.46 | 0.10 | 0.57 | — | 2,335 | 2,335 | 0.09 | 0.07 | 2,358 |
| 2028 | 9.23 | 7.25 | 6.23 | 0.01 | 0.28 | 0.18 | 0.46 | 0.26 | 0.04 | 0.30 | — | 1,114 | 1,114 | 0.04 | 0.03 | 1,124 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.01 | 0.27 | 0.20 | < 0.005 | 0.01 | < 0.005 | 0.01 | 0.01 | < 0.005 | 0.01 | — | 35.2 | 35.2 | < 0.005 | < 0.005 | 35.3 |
| 2025 | 0.14 | 4.03 | 3.15 | 0.01 | 0.12 | 0.30 | 0.42 | 0.11 | 0.12 | 0.24 | — | 537 | 537 | 0.02 | 0.01 | 540 |
| 2026 | 0.13 | 2.57 | 2.25 | < 0.005 | 0.09 | 0.08 | 0.17 | 0.08 | 0.02 | 0.10 | — | 389 | 389 | 0.01 | 0.01 | 393 |
| 2027 | 0.13 | 2.56 | 2.22 | < 0.005 | 0.09 | 0.08 | 0.17 | 0.08 | 0.02 | 0.10 | — | 387 | 387 | 0.01 | 0.01 | 390 |
| 2028 | 1.69 | 1.32 | 1.14 | < 0.005 | 0.05 | 0.03 | 0.08 | 0.05 | 0.01 | 0.06 | — | 185 | 185 | 0.01 | < 0.005 | 186 |

## 3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 1.42 | 48.9 | 36.1 | 0.06 | 0.20 | 3.70 | 3.90 | 0.18 | 1.45 | 1.64 | — | 6,720 | 6,720 | 0.27 | 0.10 | 6,745 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2026 | 1.02 | 19.7 | 17.8 | 0.03 | 0.11 | 0.62 | 0.72 | 0.10 | 0.15 | 0.25 | — | 3,333 | 3,333 | 0.12 | 0.10 | 3,368 |
| 2027 | 1.00 | 19.6 | 17.6 | 0.03 | 0.11 | 0.62 | 0.72 | 0.10 | 0.15 | 0.25 | — | 3,313 | 3,313 | 0.12 | 0.09 | 3,347 |
| 2028 | 59.1 | 19.6 | 17.4 | 0.03 | 0.11 | 0.62 | 0.72 | 0.10 | 0.15 | 0.25 | — | 3,294 | 3,294 | 0.12 | 0.09 | 3,327 |
| Daily - Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.78 | 25.1 | 18.7 | 0.03 | 0.12 | 0.19 | 0.31 | 0.11 | 0.04 | 0.15 | — | 3,615 | 3,615 | 0.15 | 0.05 | 3,633 |
| 2025 | 1.41 | 48.9 | 36.0 | 0.06 | 0.20 | 7.76 | 7.93 | 0.18 | 3.96 | 4.11 | — | 6,706 | 6,706 | 0.27 | 0.10 | 6,731 |
| 2026 | 0.98 | 19.7 | 17.2 | 0.03 | 0.11 | 0.62 | 0.72 | 0.10 | 0.15 | 0.25 | — | 3,270 | 3,270 | 0.13 | 0.10 | 3,302 |
| 2027 | 0.94 | 19.7 | 17.0 | 0.03 | 0.11 | 0.62 | 0.72 | 0.10 | 0.15 | 0.25 | — | 3,251 | 3,251 | 0.13 | 0.10 | 3,283 |
| 2028 | 59.1 | 19.7 | 16.8 | 0.03 | 0.11 | 0.62 | 0.72 | 0.10 | 0.15 | 0.25 | — | 3,233 | 3,233 | 0.13 | 0.10 | 3,265 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.05 | 1.47 | 1.10 | < 0.005 | 0.01 | 0.01 | 0.02 | 0.01 | < 0.005 | 0.01 | — | 212 | 212 | 0.01 | < 0.005 | 213 |
| 2025 | 0.79 | 22.1 | 17.3 | 0.03 | 0.10 | 1.62 | 1.72 | 0.09 | 0.68 | 0.77 | — | 3,244 | 3,244 | 0.13 | 0.05 | 3,264 |
| 2026 | 0.70 | 14.1 | 12.3 | 0.02 | 0.08 | 0.43 | 0.51 | 0.07 | 0.10 | 0.18 | — | 2,348 | 2,348 | 0.09 | 0.07 | 2,372 |
| 2027 | 0.69 | 14.0 | 12.2 | 0.02 | 0.08 | 0.43 | 0.51 | 0.07 | 0.10 | 0.18 | — | 2,335 | 2,335 | 0.09 | 0.07 | 2,358 |
| 2028 | 9.23 | 7.25 | 6.23 | 0.01 | 0.04 | 0.18 | 0.23 | 0.04 | 0.04 | 0.08 | — | 1,114 | 1,114 | 0.04 | 0.03 | 1,124 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.01 | 0.27 | 0.20 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 35.2 | 35.2 | < 0.005 | < 0.005 | 35.3 |
| 2025 | 0.14 | 4.03 | 3.15 | 0.01 | 0.02 | 0.30 | 0.31 | 0.02 | 0.12 | 0.14 | — | 537 | 537 | 0.02 | 0.01 | 540 |
| 2026 | 0.13 | 2.57 | 2.25 | < 0.005 | 0.01 | 0.08 | 0.09 | 0.01 | 0.02 | 0.03 | — | 389 | 389 | 0.01 | 0.01 | 393 |
| 2027 | 0.13 | 2.56 | 2.22 | < 0.005 | 0.01 | 0.08 | 0.09 | 0.01 | 0.02 | 0.03 | — | 387 | 387 | 0.01 | 0.01 | 390 |
| 2028 | 1.69 | 1.32 | 1.14 | < 0.005 | 0.01 | 0.03 | 0.04 | 0.01 | 0.01 | 0.02 | — | 185 | 185 | 0.01 | < 0.005 | 186 |

## 4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit. | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 21.8 | 6.82 | 72.2 | 0.14 | 0.11 | 11.9 | 12.0 | 0.10 | 3.02 | 3.12 | 148 | 15,907 | 16,055 | 15.7 | 0.78 | 16,723 |
| Mit. | 21.8 | 6.82 | 72.2 | 0.14 | 0.11 | 11.9 | 12.0 | 0.10 | 3.02 | 3.12 | 144 | 15,867 | 16,010 | 15.2 | 0.77 | 16,664 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | 3% | < 0.5% | < 0.5% | 3% | 1% | < 0.5% |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 19.5 | 7.60 | 50.2 | 0.13 | 0.10 | 11.9 | 12.0 | 0.10 | 3.02 | 3.11 | 148 | 14,687 | 14,835 | 15.8 | 0.83 | 15,480 |
| Mit. | 19.5 | 7.60 | 50.2 | 0.13 | 0.10 | 11.9 | 12.0 | 0.10 | 3.02 | 3.11 | 144 | 14,647 | 14,791 | 15.3 | 0.82 | 15,422 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | 3% | < 0.5% | < 0.5% | 3% | 1% | < 0.5% |
| Average Daily Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 20.3 | 7.23 | 57.3 | 0.13 | 0.11 | 11.7 | 11.8 | 0.10 | 2.97 | 3.07 | 148 | 14,966 | 15,114 | 15.7 | 0.80 | 15,766 |
| Mit. | 20.3 | 7.23 | 57.3 | 0.13 | 0.11 | 11.7 | 11.8 | 0.10 | 2.97 | 3.07 | 144 | 14,926 | 15,069 | 15.3 | 0.79 | 15,707 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | 3% | < 0.5% | < 0.5% | 3% | 1% | < 0.5% |
| Annual Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 3.70 | 1.32 | 10.5 | 0.02 | 0.02 | 2.14 | 2.16 | 0.02 | 0.54 | 0.56 | 24.5 | 2,478 | 2,502 | 2.60 | 0.13 | 2,610 |
| Mit. | 3.70 | 1.32 | 10.5 | 0.02 | 0.02 | 2.14 | 2.16 | 0.02 | 0.54 | 0.56 | 23.8 | 2,471 | 2,495 | 2.53 | 0.13 | 2,601 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | 3% | < 0.5% | < 0.5% | 3% | 1% | < 0.5% |

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Sector | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 8.44 | 6.68 | 57.1 | 0.14 | 0.10 | 11.9 | 12.0 | 0.10 | 3.02 | 3.11 | — | 14,292 | 14,292 | 0.57 | 0.70 | 14,554 |
| Area | 13.3 | 0.14 | 15.1 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 0.00 | 130 | 130 | 0.02 | < 0.005 | 131 |
| Energy | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 1,389 | 1,389 | 0.22 | 0.03 | 1,403 |
| Water | — | — | — | — | — | — | — | — | — | — | 20.5 | 95.8 | 116 | 2.12 | 0.05 | 185 |
| Waste | — | — | — | — | — | — | — | — | — | — | 127 | 0.00 | 127 | 12.7 | 0.00 | 446 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.71 |
| Total | 21.8 | 6.82 | 72.2 | 0.14 | 0.11 | 11.9 | 12.0 | 0.10 | 3.02 | 3.12 | 148 | 15,907 | 16,055 | 15.7 | 0.78 | 16,723 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 7.50 | 7.60 | 50.2 | 0.13 | 0.10 | 11.9 | 12.0 | 0.10 | 3.02 | 3.11 | — | 13,112 | 13,112 | 0.67 | 0.75 | 13,352 |
| Area | 12.0 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 89.6 | 89.6 | 0.01 | < 0.005 | 90.5 |
| Energy | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 1,389 | 1,389 | 0.22 | 0.03 | 1,403 |
| Water | — | — | — | — | — | — | — | — | — | — | 20.5 | 95.8 | 116 | 2.12 | 0.05 | 185 |
| Waste | — | — | — | — | — | — | — | — | — | — | 127 | 0.00 | 127 | 12.7 | 0.00 | 446 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.71 |
| Total | 19.5 | 7.60 | 50.2 | 0.13 | 0.10 | 11.9 | 12.0 | 0.10 | 3.02 | 3.11 | 148 | 14,687 | 14,835 | 15.8 | 0.83 | 15,480 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 7.62 | 7.16 | 49.8 | 0.13 | 0.10 | 11.7 | 11.8 | 0.10 | 2.97 | 3.07 | — | 13,441 | 13,441 | 0.62 | 0.72 | 13,688 |
| Area | 12.7 | 0.07 | 7.46 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.00 | 40.0 | 40.0 | < 0.005 | < 0.005 | 40.3 |
| Energy | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 1,389 | 1,389 | 0.22 | 0.03 | 1,403 |
| Water | — | — | — | — | — | — | — | — | — | — | 20.5 | 95.8 | 116 | 2.12 | 0.05 | 185 |
| Waste | — | — | — | — | — | — | — | — | — | — | 127 | 0.00 | 127 | 12.7 | 0.00 | 446 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.71 |
| Total | 20.3 | 7.23 | 57.3 | 0.13 | 0.11 | 11.7 | 11.8 | 0.10 | 2.97 | 3.07 | 148 | 14,966 | 15,114 | 15.7 | 0.80 | 15,766 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 1.39 | 1.31 | 9.09 | 0.02 | 0.02 | 2.14 | 2.16 | 0.02 | 0.54 | 0.56 | — | 2,225 | 2,225 | 0.10 | 0.12 | 2,266 |
| Area | 2.31 | 0.01 | 1.36 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.00 | 6.63 | 6.63 | < 0.005 | < 0.005 | 6.67 |
| Energy | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 230 | 230 | 0.04 | < 0.005 | 232 |
| Water | — | — | — | — | — | — | — | — | — | — | 3.40 | 15.9 | 19.3 | 0.35 | 0.01 | 30.6 |
| Waste | — | — | — | — | — | — | — | — | — | — | 21.1 | 0.00 | 21.1 | 2.11 | 0.00 | 73.8 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.62 |
| Total | 3.70 | 1.32 | 10.5 | 0.02 | 0.02 | 2.14 | 2.16 | 0.02 | 0.54 | 0.56 | 24.5 | 2,478 | 2,502 | 2.60 | 0.13 | 2,610 |

## 1.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Sector | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 8.44 | 6.68 | 57.1 | 0.14 | 0.10 | 11.9 | 12.0 | 0.10 | 3.02 | 3.11 | — | 14,292 | 14,292 | 0.57 | 0.70 | 14,554 |
| Area | 13.3 | 0.14 | 15.1 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 0.00 | 130 | 130 | 0.02 | < 0.005 | 131 |
| Energy | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 1,387 | 1,387 | 0.22 | 0.03 | 1,401 |
| Water | — | — | — | — | — | — | — | — | — | — | 16.5 | 57.7 | 74.1 | 1.70 | 0.04 | 129 |
| Waste | — | — | — | — | — | — | — | — | — | — | 127 | 0.00 | 127 | 12.7 | 0.00 | 446 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.71 |
| Total | 21.8 | 6.82 | 72.2 | 0.14 | 0.11 | 11.9 | 12.0 | 0.10 | 3.02 | 3.12 | 144 | 15,867 | 16,010 | 15.2 | 0.77 | 16,664 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 7.50 | 7.60 | 50.2 | 0.13 | 0.10 | 11.9 | 12.0 | 0.10 | 3.02 | 3.11 | — | 13,112 | 13,112 | 0.67 | 0.75 | 13,352 |
| Area | 12.0 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 89.6 | 89.6 | 0.01 | < 0.005 | 90.5 |
| Energy | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 1,387 | 1,387 | 0.22 | 0.03 | 1,401 |
| Water | — | — | — | — | — | — | — | — | — | — | 16.5 | 57.7 | 74.1 | 1.70 | 0.04 | 129 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Waste | — | — | — | — | — | — | — | — | — | — | 127 | 0.00 | 127 | 12.7 | 0.00 | 446 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.71 |
| Total | 19.5 | 7.60 | 50.2 | 0.13 | 0.10 | 11.9 | 12.0 | 0.10 | 3.02 | 3.11 | 144 | 14,647 | 14,791 | 15.3 | 0.82 | 15,422 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 7.62 | 7.16 | 49.8 | 0.13 | 0.10 | 11.7 | 11.8 | 0.10 | 2.97 | 3.07 | — | 13,441 | 13,441 | 0.62 | 0.72 | 13,688 |
| Area | 12.7 | 0.07 | 7.46 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.00 | 40.0 | 40.0 | < 0.005 | < 0.005 | 40.3 |
| Energy | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 1,387 | 1,387 | 0.22 | 0.03 | 1,401 |
| Water | — | — | — | — | — | — | — | — | — | — | 16.5 | 57.7 | 74.1 | 1.70 | 0.04 | 129 |
| Waste | — | — | — | — | — | — | — | — | — | — | 127 | 0.00 | 127 | 12.7 | 0.00 | 446 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.71 |
| Total | 20.3 | 7.23 | 57.3 | 0.13 | 0.11 | 11.7 | 11.8 | 0.10 | 2.97 | 3.07 | 144 | 14,926 | 15,069 | 15.3 | 0.79 | 15,707 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 1.39 | 1.31 | 9.09 | 0.02 | 0.02 | 2.14 | 2.16 | 0.02 | 0.54 | 0.56 | — | 2,225 | 2,225 | 0.10 | 0.12 | 2,266 |
| Area | 2.31 | 0.01 | 1.36 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.00 | 6.63 | 6.63 | < 0.005 | < 0.005 | 6.67 |
| Energy | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 230 | 230 | 0.04 | < 0.005 | 232 |
| Water | — | — | — | — | — | — | — | — | — | — | 2.72 | 9.55 | 12.3 | 0.28 | 0.01 | 21.3 |
| Waste | — | — | — | — | — | — | — | — | — | — | 21.1 | 0.00 | 21.1 | 2.11 | 0.00 | 73.8 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.62 |
| Total | 3.70 | 1.32 | 10.5 | 0.02 | 0.02 | 2.14 | 2.16 | 0.02 | 0.54 | 0.56 | 23.8 | 2,471 | 2,495 | 2.53 | 0.13 | 2,601 |

## 3. Construction Emissions Details

### 3.1. Demolition (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.72 | 24.9 | 18.2 | 0.03 | 0.79 | — | 0.79 | 0.71 | — | 0.71 | — | 3,425 | 3,425 | 0.14 | 0.03 | 3,437 |
| Demolition | — | — | — | — | — | 0.08 | 0.08 | — | 0.01 | 0.01 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 1.46 | 1.07 | < 0.005 | 0.05 | — | 0.05 | 0.04 | — | 0.04 | — | 201 | 201 | 0.01 | < 0.005 | 202 |
| Demolition | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.27 | 0.19 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 33.3 | 33.3 | < 0.005 | < 0.005 | 33.4 |
| Demolition | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.05 | 0.49 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 82.4 | 82.4 | < 0.005 | < 0.005 | 83.7 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | < 0.005 | 0.14 | 0.03 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 107 | 107 | < 0.005 | 0.02 | 112 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 5.01 | 5.01 | < 0.005 | < 0.005 | 5.10 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 6.28 | 6.28 | < 0.005 | < 0.005 | 6.59 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.83 | 0.83 | < 0.005 | < 0.005 | 0.84 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.04 | 1.04 | < 0.005 | < 0.005 | 1.09 |

## 3.2. Demolition (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.72 | 24.9 | 18.2 | 0.03 | 0.12 | — | 0.12 | 0.11 | — | 0.11 | — | 3,425 | 3,425 | 0.14 | 0.03 | 3,437 |
| Demolition | — | — | — | — | — | 0.08 | 0.08 | — | 0.01 | 0.01 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 1.46 | 1.07 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 201 | 201 | 0.01 | < 0.005 | 202 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Demolition | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.27 | 0.19 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 33.3 | 33.3 | < 0.005 | < 0.005 | 33.4 |
| Demolition | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.05 | 0.49 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 82.4 | 82.4 | < 0.005 | < 0.005 | 83.7 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | 0.14 | 0.03 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 107 | 107 | < 0.005 | 0.02 | 112 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 5.01 | 5.01 | < 0.005 | < 0.005 | 5.10 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 6.28 | 6.28 | < 0.005 | < 0.005 | 6.59 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.83 | 0.83 | < 0.005 | < 0.005 | 0.84 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.04 | 1.04 | < 0.005 | < 0.005 | 1.09 |

## :.3. Demolition (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.72 | 24.9 | 18.2 | 0.03 | 0.79 | — | 0.79 | 0.71 | — | 0.71 | — | 3,425 | 3,425 | 0.14 | 0.03 | 3,437 |
| Demolition | — | — | — | — | — | 0.08 | 0.08 | — | 0.01 | 0.01 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.06 | 2.00 | 1.46 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 275 | 275 | 0.01 | < 0.005 | 276 |
| Demolition | — | — | — | — | — | 0.01 | 0.01 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.37 | 0.27 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 45.5 | 45.5 | < 0.005 | < 0.005 | 45.7 |
| Demolition | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.04 | 0.45 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 80.7 | 80.7 | < 0.005 | < 0.005 | 82.0 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | 0.13 | 0.03 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 105 | 105 | < 0.005 | 0.02 | 110 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.04 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 6.71 | 6.71 | < 0.005 | < 0.005 | 6.82 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 8.42 | 8.42 | < 0.005 | < 0.005 | 8.82 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.11 | 1.11 | < 0.005 | < 0.005 | 1.13 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.39 | 1.39 | < 0.005 | < 0.005 | 1.46 |

## .4. Demolition (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.72 | 24.9 | 18.2 | 0.03 | 0.12 | — | 0.12 | 0.11 | — | 0.11 | — | 3,425 | 3,425 | 0.14 | 0.03 | 3,437 |
| Demolition | — | — | — | — | — | 0.08 | 0.08 | — | 0.01 | 0.01 | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.06 | 2.00 | 1.46 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 275 | 275 | 0.01 | < 0.005 | 276 |
| Demolition | — | — | — | — | — | 0.01 | 0.01 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.37 | 0.27 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 45.5 | 45.5 | < 0.005 | < 0.005 | 45.7 |
| Demolition | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.04 | 0.45 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 80.7 | 80.7 | < 0.005 | < 0.005 | 82.0 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | 0.13 | 0.03 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 105 | 105 | < 0.005 | 0.02 | 110 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.04 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 6.71 | 6.71 | < 0.005 | < 0.005 | 6.82 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 8.42 | 8.42 | < 0.005 | < 0.005 | 8.82 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.11 | 1.11 | < 0.005 | < 0.005 | 1.13 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.39 | 1.39 | < 0.005 | < 0.005 | 1.46 |

## .5. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.07 | 39.9 | 28.3 | 0.05 | 1.12 | — | 1.12 | 1.02 | — | 1.02 | — | 5,295 | 5,295 | 0.21 | 0.04 | 5,314 |
| Dust From Material Movement | — | — | — | — | — | 7.67 | 7.67 | — | 3.94 | 3.94 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.09 | 3.28 | 2.33 | < 0.005 | 0.09 | — | 0.09 | 0.08 | — | 0.08 | — | 435 | 435 | 0.02 | < 0.005 | 437 |
| Dust From Material Movement | — | — | — | — | — | 0.63 | 0.63 | — | 0.32 | 0.32 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.60 | 0.42 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 72.1 | 72.1 | < 0.005 | < 0.005 | 72.3 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dust From Material Movement | — | — | — | — | — | 0.11 | 0.11 | — | 0.06 | 0.06 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.05 | 0.53 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 94.2 | 94.2 | < 0.005 | < 0.005 | 95.6 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | < 0.005 | 0.04 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 8.02 | 8.02 | < 0.005 | < 0.005 | 8.15 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.33 | 1.33 | < 0.005 | < 0.005 | 1.35 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.6. Site Preparation (2025) - Mitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.07 | 39.9 | 28.3 | 0.05 | 0.17 | — | 0.17 | 0.15 | — | 0.15 | — | 5,295 | 5,295 | 0.21 | 0.04 | 5,314 |
| Dust From Material Movement | — | — | — | — | — | 7.67 | 7.67 | — | 3.94 | 3.94 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.09 | 3.28 | 2.33 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 435 | 435 | 0.02 | < 0.005 | 437 |
| Dust From Material Movement | — | — | — | — | — | 0.63 | 0.63 | — | 0.32 | 0.32 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.60 | 0.42 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 72.1 | 72.1 | < 0.005 | < 0.005 | 72.3 |
| Dust From Material Movement | — | — | — | — | — | 0.11 | 0.11 | — | 0.06 | 0.06 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.05 | 0.53 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 94.2 | 94.2 | < 0.005 | < 0.005 | 95.6 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | < 0.005 | 0.04 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 8.02 | 8.02 | < 0.005 | < 0.005 | 8.15 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.33 | 1.33 | < 0.005 | < 0.005 | 1.35 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## .7. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.33 | 48.8 | 35.3 | 0.06 | 1.36 | — | 1.36 | 1.23 | — | 1.23 | — | 6,599 | 6,599 | 0.27 | 0.05 | 6,622 |
| Dust From Material Movement | — | — | — | — | — | 3.59 | 3.59 | — | 1.42 | 1.42 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.33 | 48.8 | 35.3 | 0.06 | 1.36 | — | 1.36 | 1.23 | — | 1.23 | — | 6,599 | 6,599 | 0.27 | 0.05 | 6,622 |
| Dust From Material Movement | — | — | — | — | — | 3.59 | 3.59 | — | 1.42 | 1.42 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.27 | 10.0 | 7.26 | 0.01 | 0.28 | — | 0.28 | 0.25 | — | 0.25 | — | 1,356 | 1,356 | 0.06 | 0.01 | 1,361 |
| Dust From Material Movement | — | — | — | — | — | 0.74 | 0.74 | — | 0.29 | 0.29 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 1.83 | 1.33 | < 0.005 | 0.05 | — | 0.05 | 0.05 | — | 0.05 | — | 224 | 224 | 0.01 | < 0.005 | 225 |
| Dust From Material Movement | — | — | — | — | — | 0.13 | 0.13 | — | 0.05 | 0.05 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.05 | 0.74 | 0.00 | 0.00 | 0.11 | 0.11 | 0.00 | 0.03 | 0.03 | — | 121 | 121 | < 0.005 | 0.01 | 123 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.08 | 0.05 | 0.60 | 0.00 | 0.00 | 0.11 | 0.11 | 0.00 | 0.03 | 0.03 | — | 108 | 108 | < 0.005 | 0.01 | 109 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.01 | 0.13 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | — | 22.9 | 22.9 | < 0.005 | < 0.005 | 23.3 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.79 | 3.79 | < 0.005 | < 0.005 | 3.85 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## .8. Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.33 | 48.8 | 35.3 | 0.06 | 0.20 | — | 0.20 | 0.18 | — | 0.18 | — | 6,599 | 6,599 | 0.27 | 0.05 | 6,622 |
| Dust From Material Movement | — | — | — | — | — | 3.59 | 3.59 | — | 1.42 | 1.42 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.33 | 48.8 | 35.3 | 0.06 | 0.20 | — | 0.20 | 0.18 | — | 0.18 | — | 6,599 | 6,599 | 0.27 | 0.05 | 6,622 |
| Dust From Material Movement | — | — | — | — | — | 3.59 | 3.59 | — | 1.42 | 1.42 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.27 | 10.0 | 7.26 | 0.01 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 1,356 | 1,356 | 0.06 | 0.01 | 1,361 |
| Dust From Material Movement | — | — | — | — | — | 0.74 | 0.74 | — | 0.29 | 0.29 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 1.83 | 1.33 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 224 | 224 | 0.01 | < 0.005 | 225 |
| Dust From Material Movement | — | — | — | — | — | 0.13 | 0.13 | — | 0.05 | 0.05 | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.05 | 0.74 | 0.00 | 0.00 | 0.11 | 0.11 | 0.00 | 0.03 | 0.03 | — | 121 | 121 | < 0.005 | 0.01 | 123 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.08 | 0.05 | 0.60 | 0.00 | 0.00 | 0.11 | 0.11 | 0.00 | 0.03 | 0.03 | — | 108 | 108 | < 0.005 | 0.01 | 109 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.01 | 0.13 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | — | 22.9 | 22.9 | < 0.005 | < 0.005 | 23.3 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.79 | 3.79 | < 0.005 | < 0.005 | 3.85 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## .9. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.62 | 18.9 | 14.3 | 0.02 | 0.69 | — | 0.69 | 0.64 | — | 0.64 | — | 2,398 | 2,398 | 0.10 | 0.02 | 2,406 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.62 | 18.9 | 14.3 | 0.02 | 0.69 | — | 0.69 | 0.64 | — | 0.64 | — | 2,398 | 2,398 | 0.10 | 0.02 | 2,406 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.21 | 6.46 | 4.90 | 0.01 | 0.24 | — | 0.24 | 0.22 | — | 0.22 | — | 821 | 821 | 0.03 | 0.01 | 824 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 1.18 | 0.89 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 136 | 136 | 0.01 | < 0.005 | 136 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.41 | 0.22 | 3.56 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.12 | 0.12 | — | 581 | 581 | 0.02 | 0.02 | 591 |
| Vendor | 0.02 | 0.60 | 0.27 | < 0.005 | 0.01 | 0.10 | 0.10 | 0.01 | 0.03 | 0.03 | — | 374 | 374 | 0.01 | 0.08 | 392 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.36 | 0.26 | 2.89 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.12 | 0.12 | — | 515 | 515 | 0.02 | 0.02 | 523 |
| Vendor | 0.02 | 0.64 | 0.28 | < 0.005 | 0.01 | 0.10 | 0.10 | 0.01 | 0.03 | 0.03 | — | 375 | 375 | 0.01 | 0.06 | 391 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.13 | 0.08 | 1.01 | 0.00 | 0.00 | 0.18 | 0.18 | 0.00 | 0.04 | 0.04 | — | 183 | 183 | 0.01 | 0.01 | 186 |
| Vendor | 0.01 | 0.21 | 0.09 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 128 | 128 | < 0.005 | 0.02 | 134 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.01 | 0.18 | 0.00 | 0.00 | 0.03 | 0.03 | 0.00 | 0.01 | 0.01 | — | 30.3 | 30.3 | < 0.005 | < 0.005 | 30.8 |
| Vendor | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 21.2 | 21.2 | < 0.005 | < 0.005 | 22.2 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.10. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.62 | 18.9 | 14.3 | 0.02 | 0.10 | — | 0.10 | 0.10 | — | 0.10 | — | 2,398 | 2,398 | 0.10 | 0.02 | 2,406 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.62 | 18.9 | 14.3 | 0.02 | 0.10 | — | 0.10 | 0.10 | — | 0.10 | — | 2,398 | 2,398 | 0.10 | 0.02 | 2,406 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.21 | 6.46 | 4.90 | 0.01 | 0.04 | — | 0.04 | 0.03 | — | 0.03 | — | 821 | 821 | 0.03 | 0.01 | 824 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.04 | 1.18 | 0.89 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 136 | 136 | 0.01 | < 0.005 | 136 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.41 | 0.22 | 3.56 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.12 | 0.12 | — | 581 | 581 | 0.02 | 0.02 | 591 |
| Vendor | 0.02 | 0.60 | 0.27 | < 0.005 | 0.01 | 0.10 | 0.10 | 0.01 | 0.03 | 0.03 | — | 374 | 374 | 0.01 | 0.06 | 392 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.36 | 0.26 | 2.89 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.12 | 0.12 | — | 515 | 515 | 0.02 | 0.02 | 523 |
| Vendor | 0.02 | 0.64 | 0.28 | < 0.005 | 0.01 | 0.10 | 0.10 | 0.01 | 0.03 | 0.03 | — | 375 | 375 | 0.01 | 0.06 | 391 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.13 | 0.08 | 1.01 | 0.00 | 0.00 | 0.18 | 0.18 | 0.00 | 0.04 | 0.04 | — | 183 | 183 | 0.01 | 0.01 | 186 |
| Vendor | 0.01 | 0.21 | 0.09 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 128 | 128 | < 0.005 | 0.02 | 134 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.01 | 0.18 | 0.00 | 0.00 | 0.03 | 0.03 | 0.00 | 0.01 | 0.01 | — | 30.3 | 30.3 | < 0.005 | < 0.005 | 30.8 |
| Vendor | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 21.2 | 21.2 | < 0.005 | < 0.005 | 22.2 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.11. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.62 | 18.9 | 14.3 | 0.02 | 0.69 | — | 0.69 | 0.84 | — | 0.64 | — | 2,397 | 2,397 | 0.10 | 0.02 | 2,405 |
| Onsite ruck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.62 | 18.9 | 14.3 | 0.02 | 0.69 | — | 0.69 | 0.64 | — | 0.64 | — | 2,397 | 2,397 | 0.10 | 0.02 | 2,405 |
| Onsite ruck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.44 | 13.5 | 10.2 | 0.02 | 0.49 | — | 0.49 | 0.46 | — | 0.46 | — | 1,712 | 1,712 | 0.07 | 0.01 | 1,718 |
| Onsite ruck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.08 | 2.46 | 1.88 | < 0.005 | 0.09 | — | 0.09 | 0.08 | — | 0.08 | — | 283 | 283 | 0.01 | < 0.005 | 284 |
| Onsite ruck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.38 | 0.20 | 3.28 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.12 | 0.12 | — | 568 | 568 | 0.02 | 0.02 | 578 |
| Vendor | 0.02 | 0.58 | 0.26 | < 0.005 | 0.01 | 0.10 | 0.10 | 0.01 | 0.03 | 0.03 | — | 367 | 367 | 0.01 | 0.06 | 385 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.34 | 0.24 | 2.65 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.12 | 0.12 | — | 505 | 505 | 0.02 | 0.02 | 513 |
| Vendor | 0.02 | 0.62 | 0.27 | < 0.005 | 0.01 | 0.10 | 0.10 | 0.01 | 0.03 | 0.03 | — | 368 | 368 | 0.01 | 0.06 | 384 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.25 | 0.16 | 1.93 | 0.00 | 0.00 | 0.37 | 0.37 | 0.00 | 0.09 | 0.09 | — | 373 | 373 | 0.01 | 0.02 | 380 |
| Vendor | 0.01 | 0.43 | 0.19 | < 0.005 | < 0.005 | 0.07 | 0.07 | < 0.005 | 0.02 | 0.02 | — | 262 | 262 | 0.01 | 0.04 | 275 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 61.8 | 61.8 | < 0.005 | < 0.005 | 62.8 |
| Vendor | < 0.005 | 0.08 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 43.4 | 43.4 | < 0.005 | 0.01 | 45.4 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

### .12. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.62 | 18.9 | 14.3 | 0.02 | 0.10 | — | 0.10 | 0.10 | — | 0.10 | — | 2,397 | 2,397 | 0.10 | 0.02 | 2,405 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.62 | 18.9 | 14.3 | 0.02 | 0.10 | — | 0.10 | 0.10 | — | 0.10 | — | 2,397 | 2,397 | 0.10 | 0.02 | 2,405 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.44 | 13.5 | 10.2 | 0.02 | 0.07 | — | 0.07 | 0.07 | — | 0.07 | — | 1,712 | 1,712 | 0.07 | 0.01 | 1,718 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.08 | 2.46 | 1.86 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 283 | 283 | 0.01 | < 0.005 | 284 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.38 | 0.20 | 3.28 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.12 | 0.12 | — | 568 | 568 | 0.02 | 0.02 | 578 |
| Vendor | 0.02 | 0.58 | 0.26 | < 0.005 | 0.01 | 0.10 | 0.10 | 0.01 | 0.03 | 0.03 | — | 387 | 387 | 0.01 | 0.06 | 385 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.34 | 0.24 | 2.65 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.12 | 0.12 | — | 505 | 505 | 0.02 | 0.02 | 513 |
| Vendor | 0.02 | 0.62 | 0.27 | < 0.005 | 0.01 | 0.10 | 0.10 | 0.01 | 0.03 | 0.03 | — | 368 | 368 | 0.01 | 0.06 | 384 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.25 | 0.16 | 1.93 | 0.00 | 0.00 | 0.37 | 0.37 | 0.00 | 0.09 | 0.09 | — | 373 | 373 | 0.01 | 0.02 | 380 |
| Vendor | 0.01 | 0.43 | 0.19 | < 0.005 | < 0.005 | 0.07 | 0.07 | < 0.005 | 0.02 | 0.02 | — | 262 | 262 | 0.01 | 0.04 | 275 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.03 | 0.35 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 61.8 | 61.8 | < 0.005 | < 0.005 | 62.8 |
| Vendor | < 0.005 | 0.08 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 43.4 | 43.4 | < 0.005 | 0.01 | 45.4 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.13. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.62 | 18.9 | 14.3 | 0.02 | 0.69 | — | 0.69 | 0.64 | — | 0.64 | — | 2,397 | 2,397 | 0.10 | 0.02 | 2,405 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.62 | 18.9 | 14.3 | 0.02 | 0.69 | — | 0.69 | 0.64 | — | 0.64 | — | 2,397 | 2,397 | 0.10 | 0.02 | 2,405 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.44 | 13.5 | 10.2 | 0.02 | 0.49 | — | 0.49 | 0.46 | — | 0.46 | — | 1,712 | 1,712 | 0.07 | 0.01 | 1,718 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.08 | 2.46 | 1.86 | < 0.005 | 0.09 | — | 0.09 | 0.08 | — | 0.08 | — | 283 | 283 | 0.01 | < 0.005 | 284 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.36 | 0.18 | 3.03 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.12 | 0.12 | — | 557 | 557 | 0.01 | 0.02 | 566 |
| Vendor | 0.02 | 0.56 | 0.25 | < 0.005 | 0.01 | 0.10 | 0.10 | 0.01 | 0.03 | 0.03 | — | 359 | 359 | 0.01 | 0.05 | 376 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.30 | 0.22 | 2.46 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.12 | 0.12 | — | 494 | 494 | 0.02 | 0.02 | 502 |
| Vendor | 0.02 | 0.60 | 0.26 | < 0.005 | 0.01 | 0.10 | 0.10 | 0.01 | 0.03 | 0.03 | — | 360 | 360 | 0.01 | 0.05 | 376 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.23 | 0.14 | 1.78 | 0.00 | 0.00 | 0.37 | 0.37 | 0.00 | 0.09 | 0.09 | — | 366 | 366 | 0.01 | 0.02 | 372 |
| Vendor | 0.01 | 0.42 | 0.18 | < 0.005 | < 0.005 | 0.07 | 0.07 | < 0.005 | 0.02 | 0.02 | — | 257 | 257 | 0.01 | 0.04 | 268 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.03 | 0.32 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 60.5 | 60.5 | < 0.005 | < 0.005 | 61.6 |
| Vendor | < 0.005 | 0.08 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 42.5 | 42.5 | < 0.005 | 0.01 | 44.4 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## .14. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.62 | 18.9 | 14.3 | 0.02 | 0.10 | — | 0.10 | 0.10 | — | 0.10 | — | 2,397 | 2,397 | 0.10 | 0.02 | 2,405 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.62 | 18.9 | 14.3 | 0.02 | 0.10 | — | 0.10 | 0.10 | — | 0.10 | — | 2,397 | 2,397 | 0.10 | 0.02 | 2,405 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.44 | 13.5 | 10.2 | 0.02 | 0.07 | — | 0.07 | 0.07 | — | 0.07 | — | 1,712 | 1,712 | 0.07 | 0.01 | 1,718 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.08 | 2.46 | 1.86 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 283 | 283 | 0.01 | < 0.005 | 284 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.36 | 0.18 | 3.03 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.12 | 0.12 | — | 557 | 557 | 0.01 | 0.02 | 566 |
| Vendor | 0.02 | 0.56 | 0.25 | < 0.005 | 0.01 | 0.10 | 0.10 | 0.01 | 0.03 | 0.03 | — | 359 | 359 | 0.01 | 0.05 | 376 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.30 | 0.22 | 2.46 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.12 | 0.12 | — | 494 | 494 | 0.02 | 0.02 | 502 |
| Vendor | 0.02 | 0.60 | 0.26 | < 0.005 | 0.01 | 0.10 | 0.10 | 0.01 | 0.03 | 0.03 | — | 360 | 360 | 0.01 | 0.05 | 376 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.23 | 0.14 | 1.78 | 0.00 | 0.00 | 0.37 | 0.37 | 0.00 | 0.09 | 0.09 | — | 366 | 366 | 0.01 | 0.02 | 372 |
| Vendor | 0.01 | 0.42 | 0.18 | < 0.005 | < 0.005 | 0.07 | 0.07 | < 0.005 | 0.02 | 0.02 | — | 257 | 257 | 0.01 | 0.04 | 268 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.03 | 0.32 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 60.5 | 60.5 | < 0.005 | < 0.005 | 61.6 |
| Vendor | < 0.005 | 0.08 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 42.5 | 42.5 | < 0.005 | 0.01 | 44.4 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.15. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.62 | 18.9 | 14.3 | 0.02 | 0.69 | — | 0.69 | 0.64 | — | 0.64 | — | 2,397 | 2,397 | 0.10 | 0.02 | 2,406 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.62 | 18.9 | 14.3 | 0.02 | 0.69 | — | 0.69 | 0.64 | — | 0.64 | — | 2,397 | 2,397 | 0.10 | 0.02 | 2,406 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.16 | 4.87 | 3.69 | 0.01 | 0.18 | — | 0.18 | 0.17 | — | 0.17 | — | 619 | 619 | 0.03 | 0.01 | 621 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.89 | 0.67 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 103 | 103 | < 0.005 | < 0.005 | 103 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.33 | 0.16 | 2.82 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.12 | 0.12 | — | 546 | 546 | 0.01 | 0.02 | 555 |
| Vendor | 0.02 | 0.55 | 0.25 | < 0.005 | 0.01 | 0.10 | 0.10 | 0.01 | 0.03 | 0.03 | — | 350 | 350 | 0.01 | 0.05 | 367 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.29 | 0.20 | 2.28 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.12 | 0.12 | — | 485 | 485 | 0.02 | 0.02 | 493 |
| Vendor | 0.02 | 0.58 | 0.26 | < 0.005 | 0.01 | 0.10 | 0.10 | 0.01 | 0.03 | 0.03 | — | 351 | 351 | 0.01 | 0.05 | 367 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.08 | 0.05 | 0.60 | 0.00 | 0.00 | 0.13 | 0.13 | 0.00 | 0.03 | 0.03 | — | 130 | 130 | < 0.005 | 0.01 | 132 |
| Vendor | < 0.005 | 0.15 | 0.06 | < 0.005 | < 0.005 | 0.02 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 90.6 | 90.6 | < 0.005 | 0.01 | 94.8 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.11 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | — | 21.5 | 21.5 | < 0.005 | < 0.005 | 21.8 |
| Vendor | < 0.005 | 0.03 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 15.0 | 15.0 | < 0.005 | < 0.005 | 15.7 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.16. Building Construction (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.62 | 18.9 | 14.3 | 0.02 | 0.10 | — | 0.10 | 0.10 | — | 0.10 | — | 2,397 | 2,397 | 0.10 | 0.02 | 2,406 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.62 | 18.9 | 14.3 | 0.02 | 0.10 | — | 0.10 | 0.10 | — | 0.10 | — | 2,397 | 2,397 | 0.10 | 0.02 | 2,406 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.16 | 4.87 | 3.69 | 0.01 | 0.03 | — | 0.03 | 0.02 | — | 0.02 | — | 619 | 619 | 0.03 | 0.01 | 621 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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| Off-Road Equipment | 0.03 | 0.89 | 0.67 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 103 | 103 | < 0.005 | < 0.005 | 103 |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.33 | 0.16 | 2.82 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.12 | 0.12 | — | 546 | 546 | 0.01 | 0.02 | 555 |
| Vendor | 0.02 | 0.55 | 0.25 | < 0.005 | 0.01 | 0.10 | 0.10 | 0.01 | 0.03 | 0.03 | — | 350 | 350 | 0.01 | 0.05 | 367 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.29 | 0.20 | 2.28 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.12 | 0.12 | — | 485 | 485 | 0.02 | 0.02 | 493 |
| Vendor | 0.02 | 0.58 | 0.26 | < 0.005 | 0.01 | 0.10 | 0.10 | 0.01 | 0.03 | 0.03 | — | 351 | 351 | 0.01 | 0.05 | 367 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.08 | 0.05 | 0.60 | 0.00 | 0.00 | 0.13 | 0.13 | 0.00 | 0.03 | 0.03 | — | 130 | 130 | < 0.005 | 0.01 | 132 |
| Vendor | < 0.005 | 0.15 | 0.06 | < 0.005 | < 0.005 | 0.02 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 90.6 | 90.6 | < 0.005 | 0.01 | 94.8 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.11 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | — | 21.5 | 21.5 | < 0.005 | < 0.005 | 21.8 |
| Vendor | < 0.005 | 0.03 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 15.0 | 15.0 | < 0.005 | < 0.005 | 15.7 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

### .17. Paving (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.50 | 13.3 | 10.6 | 0.01 | 0.58 | — | 0.58 | 0.54 | — | 0.54 | — | 1,511 | 1,511 | 0.06 | 0.01 | 1,516 |
| Paving | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite ruck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.08 | 2.00 | 1.60 | < 0.005 | 0.09 | — | 0.09 | 0.08 | — | 0.08 | — | 228 | 228 | 0.01 | < 0.005 | 228 |
| Paving | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite ruck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.37 | 0.29 | < 0.005 | 0.02 | — | 0.02 | 0.01 | — | 0.01 | — | 37.7 | 37.7 | < 0.005 | < 0.005 | 37.8 |
| Paving | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite ruck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.05 | 0.02 | 0.44 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 85.5 | 85.5 | < 0.005 | < 0.005 | 86.9 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | < 0.005 | 0.05 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 11.9 | 11.9 | < 0.005 | < 0.005 | 12.0 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.96 | 1.96 | < 0.005 | < 0.005 | 1.99 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## .18. Paving (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.50 | 13.3 | 10.6 | 0.01 | 0.09 | — | 0.09 | 0.08 | — | 0.08 | — | 1,511 | 1,511 | 0.06 | 0.01 | 1,516 |
| Paving | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.08 | 2.00 | 1.60 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 228 | 228 | 0.01 | < 0.005 | 228 |
| Paving | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.37 | 0.29 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 37.7 | 37.7 | < 0.005 | < 0.005 | 37.8 |
| Paving | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.05 | 0.02 | 0.44 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 85.5 | 85.5 | < 0.005 | < 0.005 | 86.9 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | < 0.005 | 0.05 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 11.9 | 11.9 | < 0.005 | < 0.005 | 12.0 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.96 | 1.96 | < 0.005 | < 0.005 | 1.99 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## .19. Architectural Coating (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 1.09 | 0.96 | < 0.005 | 0.07 | — | 0.07 | 0.06 | — | 0.06 | — | 134 | 134 | 0.01 | < 0.005 | 134 |
| Architectural Coatings | 59.0 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 1.09 | 0.96 | < 0.005 | 0.07 | — | 0.07 | 0.06 | — | 0.06 | — | 134 | 134 | 0.01 | < 0.005 | 134 |
| Architectural Coatings | 59.0 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.16 | 0.15 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 20.1 | 20.1 | < 0.005 | < 0.005 | 20.2 |
| Architectural Coatings | 8.89 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 3.33 | 3.33 | < 0.005 | < 0.005 | 3.34 |
| Architectural Coatings | 1.62 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.03 | 0.56 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 109 | 109 | < 0.005 | < 0.005 | 111 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.04 | 0.46 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 97.0 | 97.0 | < 0.005 | < 0.005 | 98.5 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | — | 15.1 | 15.1 | < 0.005 | < 0.005 | 15.4 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.51 | 2.51 | < 0.005 | < 0.005 | 2.54 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## .20. Architectural Coating (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 1.09 | 0.96 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 134 | 134 | 0.01 | < 0.005 | 134 |
| Architectural Coatings | 59.0 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 1.09 | 0.96 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 134 | 134 | 0.01 | < 0.005 | 134 |
| Architectural Coatings | 59.0 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.16 | 0.15 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 20.1 | 20.1 | < 0.005 | < 0.005 | 20.2 |
| Architectural Coatings | 8.89 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 3.33 | 3.33 | < 0.005 | < 0.005 | 3.34 |
| Architectural Coatings | 1.62 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite Truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.03 | 0.56 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 109 | 109 | < 0.005 | < 0.005 | 111 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.04 | 0.46 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 97.0 | 97.0 | < 0.005 | < 0.005 | 98.5 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | — | 15.1 | 15.1 | < 0.005 | < 0.005 | 15.4 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.51 | 2.51 | < 0.005 | < 0.005 | 2.54 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

# I. Operations Emissions Details

## .1. Mobile Emissions by Land Use

### .1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 8.43 | 6.67 | 57.0 | 0.14 | 0.10 | 11.9 | 12.0 | 0.10 | 3.01 | 3.11 | — | 14,281 | 14,281 | 0.57 | 0.70 | 14,544 |
| City Park | 0.01 | < 0.005 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 10.5 | 10.5 | < 0.005 | < 0.005 | 10.7 |
| Total | 8.44 | 6.68 | 57.1 | 0.14 | 0.10 | 11.9 | 12.0 | 0.10 | 3.02 | 3.11 | — | 14,292 | 14,292 | 0.57 | 0.70 | 14,554 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 7.50 | 7.59 | 50.1 | 0.13 | 0.10 | 11.9 | 12.0 | 0.10 | 3.01 | 3.11 | — | 13,103 | 13,103 | 0.67 | 0.75 | 13,343 |
| City Park | 0.01 | 0.01 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 9.68 | 9.68 | < 0.005 | < 0.005 | 9.85 |
| Total | 7.50 | 7.60 | 50.2 | 0.13 | 0.10 | 11.9 | 12.0 | 0.10 | 3.02 | 3.11 | — | 13,112 | 13,112 | 0.67 | 0.75 | 13,352 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 1.39 | 1.31 | 9.09 | 0.02 | 0.02 | 2.14 | 2.16 | 0.02 | 0.54 | 0.56 | — | 2,224 | 2,224 | 0.10 | 0.12 | 2,265 |
| City Park | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.86 | 0.86 | < 0.005 | < 0.005 | 0.88 |
| Total | 1.39 | 1.31 | 9.09 | 0.02 | 0.02 | 2.14 | 2.16 | 0.02 | 0.54 | 0.56 | — | 2,225 | 2,225 | 0.10 | 0.12 | 2,266 |

### .1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 8.43 | 6.67 | 57.0 | 0.14 | 0.10 | 11.9 | 12.0 | 0.10 | 3.01 | 3.11 | — | 14,281 | 14,281 | 0.57 | 0.70 | 14,544 |
| City Park | 0.01 | < 0.005 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 10.5 | 10.5 | < 0.005 | < 0.005 | 10.7 |
| Total | 8.44 | 6.68 | 57.1 | 0.14 | 0.10 | 11.9 | 12.0 | 0.10 | 3.02 | 3.11 | — | 14,292 | 14,292 | 0.57 | 0.70 | 14,554 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 7.50 | 7.59 | 50.1 | 0.13 | 0.10 | 11.9 | 12.0 | 0.10 | 3.01 | 3.11 | — | 13,103 | 13,103 | 0.67 | 0.75 | 13,343 |
| City Park | 0.01 | 0.01 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 9.68 | 9.68 | < 0.005 | < 0.005 | 9.85 |
| Total | 7.50 | 7.60 | 50.2 | 0.13 | 0.10 | 11.9 | 12.0 | 0.10 | 3.02 | 3.11 | — | 13,112 | 13,112 | 0.67 | 0.75 | 13,352 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 1.39 | 1.31 | 9.09 | 0.02 | 0.02 | 2.14 | 2.16 | 0.02 | 0.54 | 0.56 | — | 2,224 | 2,224 | 0.10 | 0.12 | 2,265 |
| City Park | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.86 | 0.86 | < 0.005 | < 0.005 | 0.88 |
| Total | 1.39 | 1.31 | 9.09 | 0.02 | 0.02 | 2.14 | 2.16 | 0.02 | 0.54 | 0.56 | — | 2,225 | 2,225 | 0.10 | 0.12 | 2,266 |

## .2. Energy

### .2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 1,389 | 1,389 | 0.22 | 0.03 | 1,403 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 1,389 | 1,389 | 0.22 | 0.03 | 1,403 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 1,389 | 1,389 | 0.22 | 0.03 | 1,403 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 1,389 | 1,389 | 0.22 | 0.03 | 1,403 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 230 | 230 | 0.04 | < 0.005 | 232 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 230 | 230 | 0.04 | < 0.005 | 232 |

### .2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 1,387 | 1,387 | 0.22 | 0.03 | 1,401 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 1,387 | 1,387 | 0.22 | 0.03 | 1,401 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 1,387 | 1,387 | 0.22 | 0.03 | 1,401 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 1,387 | 1,387 | 0.22 | 0.03 | 1,401 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 230 | 230 | 0.04 | < 0.005 | 232 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 230 | 230 | 0.04 | < 0.005 | 232 |

### .2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single Family Housing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

### .2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single Family Housing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## .3. Area Emissions by Source

### .3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Source | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 89.6 | 89.6 | 0.01 | < 0.005 | 90.5 |
| Consumer Products | 11.1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.89 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipmen | 1.32 | 0.14 | 15.1 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 40.3 | 40.3 | < 0.005 | < 0.005 | 40.5 |
| Total | 13.3 | 0.14 | 15.1 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 0.00 | 130 | 130 | 0.02 | < 0.005 | 131 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 89.6 | 89.6 | 0.01 | < 0.005 | 90.5 |
| Consumer Products | 11.1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Architectural Coatings | 0.89 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 12.0 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 89.6 | 89.6 | 0.01 | < 0.005 | 90.5 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 3.33 | 3.33 | < 0.005 | < 0.005 | 3.37 |
| Consumer Products | 2.03 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.16 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipmen | 0.12 | 0.01 | 1.36 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 3.29 | 3.29 | < 0.005 | < 0.005 | 3.31 |
| Total | 2.31 | 0.01 | 1.36 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.00 | 6.63 | 6.63 | < 0.005 | < 0.005 | 6.67 |

### .3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Source | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 89.6 | 89.6 | 0.01 | < 0.005 | 90.5 |
| Consumer Products | 11.1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.89 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipmen | 1.32 | 0.14 | 15.1 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 40.3 | 40.3 | < 0.005 | < 0.005 | 40.5 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 13.3 | 0.14 | 15.1 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 0.00 | 130 | 130 | 0.02 | < 0.005 | 131 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 89.6 | 89.6 | 0.01 | < 0.005 | 90.5 |
| Consumer Products | 11.1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.89 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 12.0 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 89.6 | 89.6 | 0.01 | < 0.005 | 90.5 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 3.33 | 3.33 | < 0.005 | < 0.005 | 3.37 |
| Consumer Products | 2.03 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.16 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipmen | 0.12 | 0.01 | 1.36 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 3.29 | 3.29 | < 0.005 | < 0.005 | 3.31 |
| Total | 2.31 | 0.01 | 1.36 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.00 | 6.63 | 6.63 | < 0.005 | < 0.005 | 6.67 |

## .4. Water Emissions by Land Use

### .4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | 20.5 | 94.3 | 115 | 2.12 | 0.05 | 183 |
| City Park | — | — | — | — | — | — | — | — | — | — | 0.00 | 1.51 | 1.51 | < 0.005 | < 0.005 | 1.52 |
| Total | — | — | — | — | — | — | — | — | — | — | 20.5 | 95.8 | 116 | 2.12 | 0.05 | 185 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | 20.5 | 94.3 | 115 | 2.12 | 0.05 | 183 |
| City Park | — | — | — | — | — | — | — | — | — | — | 0.00 | 1.51 | 1.51 | < 0.005 | < 0.005 | 1.52 |
| Total | — | — | — | — | — | — | — | — | — | — | 20.5 | 95.8 | 116 | 2.12 | 0.05 | 185 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | 3.40 | 15.6 | 19.0 | 0.35 | 0.01 | 30.4 |
| City Park | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.25 | 0.25 | < 0.005 | < 0.005 | 0.25 |
| Total | — | — | — | — | — | — | — | — | — | — | 3.40 | 15.9 | 19.3 | 0.35 | 0.01 | 30.6 |

### .4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | 16.5 | 58.0 | 74.5 | 1.70 | 0.04 | 129 |
| City Park | — | — | — | — | — | — | — | — | — | — | 0.00 | -0.36 | -0.36 | > -0.005 | > -0.005 | -0.37 |
| Total | — | — | — | — | — | — | — | — | — | — | 16.5 | 57.7 | 74.1 | 1.70 | 0.04 | 129 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | 16.5 | 58.0 | 74.5 | 1.70 | 0.04 | 129 |
| City Park | — | — | — | — | — | — | — | — | — | — | 0.00 | -0.36 | -0.36 | > -0.005 | > -0.005 | -0.37 |
| Total | — | — | — | — | — | — | — | — | — | — | 16.5 | 57.7 | 74.1 | 1.70 | 0.04 | 129 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | 2.72 | 9.61 | 12.3 | 0.28 | 0.01 | 21.4 |
| City Park | — | — | — | — | — | — | — | — | — | — | 0.00 | -0.06 | -0.06 | > -0.005 | > -0.005 | -0.06 |
| Total | — | — | — | — | — | — | — | — | — | — | 2.72 | 9.55 | 12.3 | 0.28 | 0.01 | 21.3 |

## .5. Waste Emissions by Land Use

### .5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | 127 | 0.00 | 127 | 12.7 | 0.00 | 445 |
| City Park | — | — | — | — | — | — | — | — | — | — | 0.04 | 0.00 | 0.04 | < 0.005 | 0.00 | 0.14 |
| Total | — | — | — | — | — | — | — | — | — | — | 127 | 0.00 | 127 | 12.7 | 0.00 | 446 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | 127 | 0.00 | 127 | 12.7 | 0.00 | 445 |
| City Park | — | — | — | — | — | — | — | — | — | — | 0.04 | 0.00 | 0.04 | < 0.005 | 0.00 | 0.14 |
| Total | — | — | — | — | — | — | — | — | — | — | 127 | 0.00 | 127 | 12.7 | 0.00 | 446 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | 21.1 | 0.00 | 21.1 | 2.11 | 0.00 | 73.7 |
| City Park | — | — | — | — | — | — | — | — | — | — | 0.01 | 0.00 | 0.01 | < 0.005 | 0.00 | 0.02 |
| Total | — | — | — | — | — | — | — | — | — | — | 21.1 | 0.00 | 21.1 | 2.11 | 0.00 | 73.8 |

### .5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | 127 | 0.00 | 127 | 12.7 | 0.00 | 445 |
| City Park | — | — | — | — | — | — | — | — | — | — | 0.04 | 0.00 | 0.04 | < 0.005 | 0.00 | 0.14 |
| Total | — | — | — | — | — | — | — | — | — | — | 127 | 0.00 | 127 | 12.7 | 0.00 | 446 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | 127 | 0.00 | 127 | 12.7 | 0.00 | 445 |
| City Park | — | — | — | — | — | — | — | — | — | — | 0.04 | 0.00 | 0.04 | < 0.005 | 0.00 | 0.14 |
| Total | — | — | — | — | — | — | — | — | — | — | 127 | 0.00 | 127 | 12.7 | 0.00 | 446 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | 21.1 | 0.00 | 21.1 | 2.11 | 0.00 | 73.7 |
| City Park | — | — | — | — | — | — | — | — | — | — | 0.01 | 0.00 | 0.01 | < 0.005 | 0.00 | 0.02 |
| Total | — | — | — | — | — | — | — | — | — | — | 21.1 | 0.00 | 21.1 | 2.11 | 0.00 | 73.8 |

## .6. Refrigerant Emissions by Land Use

### .6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.71 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.71 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.71 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.71 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.62 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.62 |

### .6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.71 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.71 |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.71 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.71 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.62 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.62 |

## .7. Offroad Emissions By Equipment Type

### .7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## .8. Stationary Emissions By Equipment Type

### .8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### .8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## .9. User Defined Emissions By Equipment Type

### .9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### .9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## .10. Soil Carbon Accumulation By Vegetation Type

### .10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### .10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| – | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| – | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| – | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequester ed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequester ed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

# 5. Activity Data

## 5.1. Construction Schedule

| Phase Name | Phase Type | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|---|---|---|---|---|---|---|
| Demolition | Demolition | 12/2/2024 | 2/10/2025 | 5.00 | 50.0 | — |
| Site Preparation | Site Preparation | 2/11/2025 | 3/25/2025 | 5.00 | 30.0 | — |
| Grading | Grading | 3/26/2025 | 7/9/2025 | 5.00 | 75.0 | — |
| Building Construction | Building Construction | 7/10/2025 | 5/11/2028 | 5.00 | 740 | — |
| Paving | Paving | 5/12/2028 | 7/28/2028 | 5.00 | 55.0 | — |
| Architectural Coating | Architectural Coating | 7/29/2028 | 10/14/2028 | 5.00 | 55.0 | — |

## .2. Off-Road Equipment

### .2.1. Unmitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|---|
| Demolition | Rubber Tired Dozers | Diesel | Tier 2 | 2.00 | 8.00 | 367 | 0.40 |
| Demolition | Excavators | Diesel | Tier 2 | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Concrete/Industrial Saws | Diesel | Tier 2 | 1.00 | 8.00 | 33.0 | 0.73 |
| Site Preparation | Rubber Tired Dozers | Diesel | Tier 2 | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Tier 2 | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Graders | Diesel | Tier 2 | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Excavators | Diesel | Tier 2 | 2.00 | 8.00 | 36.0 | 0.38 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Tier 2 | 2.00 | 8.00 | 84.0 | 0.37 |
| Grading | Scrapers | Diesel | Tier 2 | 2.00 | 8.00 | 423 | 0.48 |
| Grading | Rubber Tired Dozers | Diesel | Tier 2 | 1.00 | 8.00 | 367 | 0.40 |
| Building Construction | Forklifts | Diesel | Tier 2 | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Tier 2 | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Cranes | Diesel | Tier 2 | 1.00 | 7.00 | 367 | 0.29 |
| Building Construction | Welders | Diesel | Tier 2 | 1.00 | 8.00 | 46.0 | 0.45 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Tier 2 | 3.00 | 7.00 | 84.0 | 0.37 |
| Paving | Pavers | Diesel | Tier 2 | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Tier 2 | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Tier 2 | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Tier 2 | 1.00 | 6.00 | 37.0 | 0.48 |

.2.2. Mitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|---|
| Demolition | Rubber Tired Dozers | Diesel | Tier 2 | 2.00 | 8.00 | 367 | 0.40 |
| Demolition | Excavators | Diesel | Tier 2 | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Concrete/Industrial Saws | Diesel | Tier 2 | 1.00 | 8.00 | 33.0 | 0.73 |
| Site Preparation | Rubber Tired Dozers | Diesel | Tier 2 | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Tier 2 | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Graders | Diesel | Tier 2 | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Excavators | Diesel | Tier 2 | 2.00 | 8.00 | 36.0 | 0.38 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Tier 2 | 2.00 | 8.00 | 84.0 | 0.37 |
| Grading | Scrapers | Diesel | Tier 2 | 2.00 | 8.00 | 423 | 0.48 |
| Grading | Rubber Tired Dozers | Diesel | Tier 2 | 1.00 | 8.00 | 367 | 0.40 |
| Building Construction | Forklifts | Diesel | Tier 2 | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Tier 2 | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Cranes | Diesel | Tier 2 | 1.00 | 7.00 | 367 | 0.29 |
| Building Construction | Welders | Diesel | Tier 2 | 1.00 | 8.00 | 46.0 | 0.45 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Tier 2 | 3.00 | 7.00 | 84.0 | 0.37 |
| Paving | Pavers | Diesel | Tier 2 | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Tier 2 | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Tier 2 | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Tier 2 | 1.00 | 6.00 | 37.0 | 0.48 |

.3. Construction Vehicles

.3.1. Unmitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|---|---|---|---|---|
| Demolition | — | — | — | — |
| Demolition | Worker | 15.0 | 7.70 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 4.00 | HHDT,MHDT |
| Demolition | Hauling | 1.50 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 17.5 | 7.70 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 4.00 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 20.0 | 7.70 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 4.00 | HHDT,MHDT |
| Grading | Hauling | 0.00 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Building Construction | — | — | — | — |
| Building Construction | Worker | 95.8 | 7.70 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 28.4 | 4.00 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 15.0 | 7.70 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 4.00 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |

| | | | | |
|---|---|---|---|---|
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 19.2 | 7.70 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 4.00 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | — | — | HHDT |

### .3.2. Mitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|---|---|---|---|---|
| Demolition | — | — | — | — |
| Demolition | Worker | 15.0 | 7.70 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 4.00 | HHDT,MHDT |
| Demolition | Hauling | 1.50 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 17.5 | 7.70 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 4.00 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 20.0 | 7.70 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 4.00 | HHDT,MHDT |
| Grading | Hauling | 0.00 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Building Construction | — | — | — | — |
| Building Construction | Worker | 95.8 | 7.70 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 28.4 | 4.00 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |

| | | | | |
|---|---|---|---|---|
| Building Construction | Onsite truck | — | — | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 15.0 | 7.70 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 4.00 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 19.2 | 7.70 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 4.00 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | — | — | HHDT |

## 3.4. Vehicles

### 3.4.1. Construction Vehicle Control Strategies

| Control Strategies Applied | PM10 Reduction | PM2.5 Reduction |
|---|---|---|
| Water unpaved roads twice daily | 55% | 55% |
| Limit vehicle speeds on unpaved roads to 25 mph | 44% | 44% |
| Sweep paved roads once per month | 9% | 9% |

## 3.5. Architectural Coatings

| Phase Name | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|---|---|---|---|---|---|
| Architectural Coating | 1,050,368 | 350,123 | 0.00 | 0.00 | — |

## 3.6. Dust Mitigation

### .6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (Building Square Footage) | Acres Paved (acres) |
|---|---|---|---|---|---|
| Demolition | 0.00 | 0.00 | 0.00 | 6,500 | — |
| Site Preparation | — | — | 45.0 | 0.00 | — |
| Grading | — | — | 225 | 0.00 | — |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 2.93 |

### .6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|---|---|---|---|
| Water Exposed Area | 2 | 61% | 61% |
| Water Demolished Area | 2 | 36% | 36% |

### .7. Construction Paving

| Land Use | Area Paved (acres) | % Asphalt |
|---|---|---|
| Single Family Housing | 2.93 | 0% |
| City Park | 0.00 | 0% |

### .8. Construction Electricity Consumption and Emissions Factors

Wh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4 | N2O |
|---|---|---|---|---|
| 2024 | 0.00 | 204 | 0.03 | < 0.005 |
| 2025 | 0.00 | 204 | 0.03 | < 0.005 |
| 2026 | 0.00 | 204 | 0.03 | < 0.005 |
| 2027 | 0.00 | 204 | 0.03 | < 0.005 |
| 2028 | 0.00 | 204 | 0.03 | < 0.005 |

## .9. Operational Mobile Sources

### .9.1. Unmitigated

| Land Use Type | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year |
|---|---|---|---|---|---|---|---|---|
| Single Family Housing | 2,508 | 2,508 | 2,508 | 915,559 | 16,810 | 16,810 | 16,810 | 6,135,600 |
| City Park | 0.66 | 1.65 | 1.84 | 353 | 4.42 | 11.1 | 12.4 | 2,380 |

### .9.2. Mitigated

| Land Use Type | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year |
|---|---|---|---|---|---|---|---|---|
| Single Family Housing | 2,508 | 2,508 | 2,508 | 915,559 | 16,810 | 16,810 | 16,810 | 6,135,600 |
| City Park | 0.66 | 1.65 | 1.84 | 353 | 4.42 | 11.1 | 12.4 | 2,380 |

## .10. Operational Area Sources

### .10.1. Hearths

#### .10.1.1. Unmitigated

| Hearth Type | Unmitigated (number) |
|---|---|
| Single Family Housing | — |
| Wood Fireplaces | 0 |
| Gas Fireplaces | 0 |
| Propane Fireplaces | 0 |
| Electric Fireplaces | 133 |
| No Fireplaces | 133 |
| Conventional Wood Stoves | 0 |
| Catalytic Wood Stoves | 0 |
| | 79 / 85 |

| | |
|---|---|
| Non-Catalytic Wood Stoves | 0 |
| Pellet Wood Stoves | 0 |

### .10.1.2. Mitigated

| Hearth Type | Unmitigated (number) |
|---|---|
| Single Family Housing | — |
| Wood Fireplaces | 0 |
| Gas Fireplaces | 0 |
| Propane Fireplaces | 0 |
| Electric Fireplaces | 133 |
| No Fireplaces | 133 |
| Conventional Wood Stoves | 0 |
| Catalytic Wood Stoves | 0 |
| Non-Catalytic Wood Stoves | 0 |
| Pellet Wood Stoves | 0 |

### .10.2. Architectural Coatings

| Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|---|---|---|---|---|
| 1050367.5 | 350,123 | 0.00 | 0.00 | — |

### .10.3. Landscape Equipment

| Season | Unit | Value |
|---|---|---|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 180 |

### .10.4. Landscape Equipment - Mitigated

| Season | Unit | Value |
|---|---|---|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 180 |

## .11. Operational Energy Consumption

### .11.1. Unmitigated

lectricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

| Land Use | Electricity (kWh/yr) | CO2 | CH4 | N2O | Natural Gas (kBTU/yr) |
|---|---|---|---|---|---|
| Single Family Housing | 2,486,191 | 204 | 0.0330 | 0.0040 | 0.00 |
| City Park | 0.00 | 204 | 0.0330 | 0.0040 | 0.00 |

### .11.2. Mitigated

lectricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

| Land Use | Electricity (kWh/yr) | CO2 | CH4 | N2O | Natural Gas (kBTU/yr) |
|---|---|---|---|---|---|
| Single Family Housing | 2,482,041 | 204 | 0.0330 | 0.0040 | 0.00 |
| City Park | 0.00 | 204 | 0.0330 | 0.0040 | 0.00 |

## .12. Operational Water and Wastewater Consumption

### .12.1. Unmitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|---|---|---|
| Single Family Housing | 10,718,736 | 52,272,945 |
| City Park | 0.00 | 1,116,187 |

| | | | | | |
|---|---|---|---|---|---|
| 1451 | 259382.8 | 4084275 | 9.76E-04 | 1.49E-04 | 8.04E-05 |
| 1452 | 259392.6 | 4084297 | 9.66E-04 | 1.47E-04 | 7.96E-05 |
| 1453 | 259402.4 | 4084319 | 9.53E-04 | 1.45E-04 | 7.86E-05 |
| 1454 | 259412.3 | 4084341 | 9.39E-04 | 1.43E-04 | 7.74E-05 |
| 1455 | 259422.1 | 4084362 | 9.22E-04 | 1.41E-04 | 7.60E-05 |
| 1456 | 259431.9 | 4084384 | 9.05E-04 | 1.38E-04 | 7.46E-05 |
| 1457 | 259441.8 | 4084406 | 8.90E-04 | 1.36E-04 | 7.34E-05 |
| 1458 | 259451.6 | 4084428 | 8.72E-04 | 1.33E-04 | 7.18E-05 |
| 1459 | 259461.4 | 4084449 | 8.53E-04 | 1.30E-04 | 7.03E-05 |
| 1460 | 259471.3 | 4084471 | 8.34E-04 | 1.27E-04 | 6.87E-05 |
| 1461 | 259481.1 | 4084493 | 8.14E-04 | 1.24E-04 | 6.71E-05 |
| 1462 | 259490.9 | 4084515 | 7.95E-04 | 1.21E-04 | 6.55E-05 |
| 1463 | 259500.8 | 4084536 | 7.74E-04 | 1.18E-04 | 6.38E-05 |
| 1464 | 259510.6 | 4084558 | 7.53E-04 | 1.15E-04 | 6.21E-05 |
| 1465 | 259520.4 | 4084580 | 7.31E-04 | 1.11E-04 | 6.02E-05 |
| 1466 | 259530.3 | 4084602 | 7.07E-04 | 1.08E-04 | 5.83E-05 |
| 1467 | 259540.1 | 4084623 | 6.82E-04 | 1.04E-04 | 5.62E-05 |
| 1468 | 259549.9 | 4084645 | 6.57E-04 | 1.00E-04 | 5.41E-05 |
| 1469 | 259559.8 | 4084667 | 6.32E-04 | 9.62E-05 | 5.21E-05 |
| 1470 | 259569.6 | 4084688 | 6.07E-04 | 9.25E-05 | 5.01E-05 |
| 1471 | 259579.5 | 4084710 | 5.84E-04 | 8.90E-05 | 4.82E-05 |
| 1472 | 259589.3 | 4084732 | 5.63E-04 | 8.58E-05 | 4.64E-05 |
| 1473 | 259599.1 | 4084754 | 5.44E-04 | 8.29E-05 | 4.49E-05 |
| 1474 | 259609 | 4084775 | 5.26E-04 | 8.02E-05 | 4.34E-05 |
| 1475 | 259618.8 | 4084797 | 5.10E-04 | 7.77E-05 | 4.20E-05 |
| 1476 | 259628.6 | 4084819 | 4.94E-04 | 7.52E-05 | 4.07E-05 |
| 1477 | 259638.5 | 4084841 | 4.78E-04 | 7.28E-05 | 3.94E-05 |
| 1478 | 259648.3 | 4084862 | 4.62E-04 | 7.03E-05 | 3.80E-05 |
| 1479 | 258305.3 | 4083623 | 1.82E-04 | 2.78E-05 | 1.50E-05 |
| 1480 | 258281 | 4083624 | 1.78E-04 | 2.71E-05 | 1.47E-05 |
| 1481 | 258256.6 | 4083625 | 1.74E-04 | 2.65E-05 | 1.43E-05 |
| 1482 | 258232.3 | 4083626 | 1.70E-04 | 2.59E-05 | 1.40E-05 |
| 1483 | 258208 | 4083627 | 1.66E-04 | 2.53E-05 | 1.37E-05 |
| 1484 | 258183.6 | 4083628 | 1.62E-04 | 2.47E-05 | 1.34E-05 |
| 1485 | 258159.3 | 4083629 | 1.58E-04 | 2.41E-05 | 1.30E-05 |
| 1486 | 258135 | 4083630 | 1.54E-04 | 2.35E-05 | 1.27E-05 |
| 1487 | 258110.6 | 4083631 | 1.51E-04 | 2.29E-05 | 1.24E-05 |
| 1488 | 258086.3 | 4083632 | 1.47E-04 | 2.24E-05 | 1.21E-05 |
| 1489 | 258062 | 4083633 | 1.43E-04 | 2.18E-05 | 1.18E-05 |
| 1490 | 258037.6 | 4083634 | 1.40E-04 | 2.13E-05 | 1.15E-05 |
| 1491 | 258013.3 | 4083635 | 1.36E-04 | 2.07E-05 | 1.12E-05 |
| 1492 | 257989 | 4083636 | 1.33E-04 | 2.02E-05 | 1.10E-05 |
| 1493 | 257964.6 | 4083637 | 1.30E-04 | 1.98E-05 | 1.07E-05 |
| 1494 | 257940.3 | 4083638 | 1.27E-04 | 1.93E-05 | 1.04E-05 |
| 1495 | 257916 | 4083639 | 1.24E-04 | 1.89E-05 | 1.02E-05 |
| 1496 | 257891.6 | 4083640 | 1.21E-04 | 1.84E-05 | 9.97E-06 |
| 1497 | 257867.3 | 4083641 | 1.18E-04 | 1.80E-05 | 9.76E-06 |

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| 1404 | 258484.3 | 4083689 | 2.54E-04 | 3.87E-05 | 2.09E-05 |
| 1405 | 258506.7 | 4083698 | 2.66E-04 | 4.05E-05 | 2.19E-05 |
| 1406 | 258529 | 4083706 | 2.79E-04 | 4.25E-05 | 2.30E-05 |
| 1407 | 258551.4 | 4083714 | 2.93E-04 | 4.47E-05 | 2.42E-05 |
| 1408 | 258573.8 | 4083723 | 3.08E-04 | 4.69E-05 | 2.54E-05 |
| 1409 | 258596.2 | 4083731 | 3.24E-04 | 4.93E-05 | 2.67E-05 |
| 1410 | 258618.5 | 4083739 | 3.40E-04 | 5.18E-05 | 2.80E-05 |
| 1411 | 258640.9 | 4083747 | 3.57E-04 | 5.45E-05 | 2.95E-05 |
| 1412 | 258663.3 | 4083756 | 3.75E-04 | 5.72E-05 | 3.09E-05 |
| 1413 | 258685.7 | 4083764 | 3.94E-04 | 6.00E-05 | 3.25E-05 |
| 1414 | 258708 | 4083772 | 4.14E-04 | 6.30E-05 | 3.41E-05 |
| 1415 | 258730.4 | 4083781 | 4.34E-04 | 6.61E-05 | 3.57E-05 |
| 1416 | 258752.8 | 4083789 | 4.54E-04 | 6.92E-05 | 3.75E-05 |
| 1417 | 258775.2 | 4083797 | 4.75E-04 | 7.24E-05 | 3.92E-05 |
| 1418 | 258797.6 | 4083805 | 4.97E-04 | 7.57E-05 | 4.10E-05 |
| 1419 | 258819.9 | 4083814 | 5.19E-04 | 7.91E-05 | 4.28E-05 |
| 1420 | 258842.3 | 4083822 | 5.41E-04 | 8.25E-05 | 4.46E-05 |
| 1421 | 258864.7 | 4083830 | 5.64E-04 | 8.59E-05 | 4.65E-05 |
| 1422 | 258887.1 | 4083839 | 5.86E-04 | 8.93E-05 | 4.83E-05 |
| 1423 | 258909.4 | 4083847 | 6.09E-04 | 9.27E-05 | 5.02E-05 |
| 1424 | 258931.8 | 4083855 | 6.31E-04 | 9.61E-05 | 5.20E-05 |
| 1425 | 258954.2 | 4083863 | 6.53E-04 | 9.95E-05 | 5.38E-05 |
| 1426 | 258976.6 | 4083872 | 6.75E-04 | 1.03E-04 | 5.56E-05 |
| 1427 | 258998.9 | 4083880 | 6.96E-04 | 1.06E-04 | 5.74E-05 |
| 1428 | 259021.3 | 4083888 | 7.16E-04 | 1.09E-04 | 5.91E-05 |
| 1429 | 259043.7 | 4083897 | 7.36E-04 | 1.12E-04 | 6.07E-05 |
| 1430 | 259066.1 | 4083905 | 7.54E-04 | 1.15E-04 | 6.22E-05 |
| 1431 | 259088.4 | 4083913 | 7.72E-04 | 1.18E-04 | 6.36E-05 |
| 1432 | 259110.8 | 4083921 | 7.87E-04 | 1.20E-04 | 6.49E-05 |
| 1433 | 259133.2 | 4083930 | 8.02E-04 | 1.22E-04 | 6.61E-05 |
| 1434 | 259155.6 | 4083938 | 8.15E-04 | 1.24E-04 | 6.72E-05 |
| 1435 | 259177.9 | 4083946 | 8.25E-04 | 1.26E-04 | 6.80E-05 |
| 1436 | 259200.3 | 4083955 | 8.35E-04 | 1.27E-04 | 6.88E-05 |
| 1437 | 259222.7 | 4083963 | 8.43E-04 | 1.28E-04 | 6.95E-05 |
| 1438 | 259254.9 | 4083993 | 8.71E-04 | 1.33E-04 | 7.18E-05 |
| 1439 | 259264.7 | 4084015 | 8.93E-04 | 1.36E-04 | 7.36E-05 |
| 1440 | 259274.6 | 4084036 | 9.13E-04 | 1.39E-04 | 7.52E-05 |
| 1441 | 259284.4 | 4084058 | 9.31E-04 | 1.42E-04 | 7.67E-05 |
| 1442 | 259294.2 | 4084080 | 9.47E-04 | 1.44E-04 | 7.81E-05 |
| 1443 | 259304.1 | 4084102 | 9.61E-04 | 1.46E-04 | 7.92E-05 |
| 1444 | 259313.9 | 4084123 | 9.72E-04 | 1.48E-04 | 8.02E-05 |
| 1445 | 259323.7 | 4084145 | 9.81E-04 | 1.49E-04 | 8.09E-05 |
| 1446 | 259333.6 | 4084167 | 9.87E-04 | 1.50E-04 | 8.14E-05 |
| 1447 | 259343.4 | 4084188 | 9.91E-04 | 1.51E-04 | 8.17E-05 |
| 1448 | 259353.3 | 4084210 | 9.91E-04 | 1.51E-04 | 8.17E-05 |
| 1449 | 259363.1 | 4084232 | 9.89E-04 | 1.51E-04 | 8.15E-05 |
| 1450 | 259372.9 | 4084254 | 9.84E-04 | 1.50E-04 | 8.11E-05 |

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| 1357 | 259398.3 | 4084758 | 7.31E-04 | 1.11E-04 | 6.03E-05 |
| 1358 | 259408.3 | 4084780 | 7.00E-04 | 1.07E-04 | 5.77E-05 |
| 1359 | 259418.3 | 4084802 | 6.72E-04 | 1.02E-04 | 5.54E-05 |
| 1360 | 259428.3 | 4084824 | 6.45E-04 | 9.82E-05 | 5.32E-05 |
| 1361 | 259438.2 | 4084846 | 6.19E-04 | 9.43E-05 | 5.10E-05 |
| 1362 | 259448.2 | 4084868 | 5.94E-04 | 9.05E-05 | 4.90E-05 |
| 1363 | 258313.5 | 4083823 | 2.66E-04 | 4.06E-05 | 2.20E-05 |
| 1364 | 258289.2 | 4083824 | 2.59E-04 | 3.94E-05 | 2.13E-05 |
| 1365 | 258264.8 | 4083825 | 2.51E-04 | 3.82E-05 | 2.07E-05 |
| 1366 | 258240.5 | 4083826 | 2.44E-04 | 3.71E-05 | 2.01E-05 |
| 1367 | 258216.2 | 4083827 | 2.37E-04 | 3.61E-05 | 1.95E-05 |
| 1368 | 258191.8 | 4083828 | 2.30E-04 | 3.50E-05 | 1.89E-05 |
| 1369 | 258167.5 | 4083829 | 2.23E-04 | 3.39E-05 | 1.84E-05 |
| 1370 | 258143.2 | 4083830 | 2.16E-04 | 3.29E-05 | 1.78E-05 |
| 1371 | 258118.8 | 4083831 | 2.09E-04 | 3.19E-05 | 1.72E-05 |
| 1372 | 258094.5 | 4083832 | 2.03E-04 | 3.09E-05 | 1.67E-05 |
| 1373 | 258070.2 | 4083833 | 1.96E-04 | 2.99E-05 | 1.62E-05 |
| 1374 | 258045.9 | 4083834 | 1.90E-04 | 2.90E-05 | 1.57E-05 |
| 1375 | 258021.5 | 4083835 | 1.84E-04 | 2.81E-05 | 1.52E-05 |
| 1376 | 257997.2 | 4083836 | 1.79E-04 | 2.72E-05 | 1.47E-05 |
| 1377 | 257972.9 | 4083837 | 1.73E-04 | 2.64E-05 | 1.43E-05 |
| 1378 | 257948.5 | 4083838 | 1.68E-04 | 2.56E-05 | 1.39E-05 |
| 1379 | 257924.2 | 4083839 | 1.63E-04 | 2.49E-05 | 1.35E-05 |
| 1380 | 257899.9 | 4083840 | 1.59E-04 | 2.42E-05 | 1.31E-05 |
| 1381 | 257875.5 | 4083841 | 1.55E-04 | 2.36E-05 | 1.28E-05 |
| 1382 | 257851.2 | 4083842 | 1.51E-04 | 2.30E-05 | 1.25E-05 |
| 1383 | 257826.9 | 4083843 | 1.48E-04 | 2.25E-05 | 1.22E-05 |
| 1384 | 257802.5 | 4083844 | 1.45E-04 | 2.21E-05 | 1.19E-05 |
| 1385 | 257778.2 | 4083845 | 1.42E-04 | 2.16E-05 | 1.17E-05 |
| 1386 | 257753.9 | 4083846 | 1.39E-04 | 2.12E-05 | 1.15E-05 |
| 1387 | 257729.5 | 4083847 | 1.37E-04 | 2.09E-05 | 1.13E-05 |
| 1388 | 257705.2 | 4083848 | 1.35E-04 | 2.05E-05 | 1.11E-05 |
| 1389 | 257680.9 | 4083849 | 1.33E-04 | 2.02E-05 | 1.10E-05 |
| 1390 | 257656.5 | 4083850 | 1.31E-04 | 2.00E-05 | 1.08E-05 |
| 1391 | 257632.2 | 4083851 | 1.29E-04 | 1.97E-05 | 1.07E-05 |
| 1392 | 257607.9 | 4083852 | 1.28E-04 | 1.94E-05 | 1.05E-05 |
| 1393 | 257583.5 | 4083853 | 1.26E-04 | 1.92E-05 | 1.04E-05 |
| 1394 | 257559.2 | 4083854 | 1.24E-04 | 1.89E-05 | 1.02E-05 |
| 1395 | 257534.9 | 4083855 | 1.23E-04 | 1.87E-05 | 1.01E-05 |
| 1396 | 257510.6 | 4083856 | 1.21E-04 | 1.84E-05 | 9.97E-06 |
| 1397 | 258327.7 | 4083631 | 1.89E-04 | 2.89E-05 | 1.56E-05 |
| 1398 | 258350 | 4083640 | 1.97E-04 | 3.00E-05 | 1.62E-05 |
| 1399 | 258372.4 | 4083648 | 2.05E-04 | 3.12E-05 | 1.69E-05 |
| 1400 | 258394.8 | 4083656 | 2.13E-04 | 3.25E-05 | 1.76E-05 |
| 1401 | 258417.2 | 4083665 | 2.22E-04 | 3.39E-05 | 1.83E-05 |
| 1402 | 258439.5 | 4083673 | 2.32E-04 | 3.54E-05 | 1.91E-05 |
| 1403 | 258461.9 | 4083681 | 2.43E-04 | 3.70E-05 | 2.00E-05 |

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| 1310 | 258677 | 4083958 | 6.31E-04 | 9.61E-05 | 5.20E-05 |
| 1311 | 258699.7 | 4083966 | 6.62E-04 | 1.01E-04 | 5.46E-05 |
| 1312 | 258722.5 | 4083974 | 6.94E-04 | 1.06E-04 | 5.72E-05 |
| 1313 | 258745.2 | 4083983 | 7.26E-04 | 1.11E-04 | 5.99E-05 |
| 1314 | 258767.9 | 4083991 | 7.58E-04 | 1.16E-04 | 6.25E-05 |
| 1315 | 258790.6 | 4084000 | 7.90E-04 | 1.20E-04 | 6.51E-05 |
| 1316 | 258813.3 | 4084008 | 8.22E-04 | 1.25E-04 | 6.77E-05 |
| 1317 | 258836.1 | 4084016 | 8.53E-04 | 1.30E-04 | 7.03E-05 |
| 1318 | 258858.8 | 4084025 | 8.83E-04 | 1.34E-04 | 7.28E-05 |
| 1319 | 258881.5 | 4084033 | 9.12E-04 | 1.39E-04 | 7.52E-05 |
| 1320 | 258904.2 | 4084042 | 9.40E-04 | 1.43E-04 | 7.75E-05 |
| 1321 | 258926.9 | 4084050 | 9.66E-04 | 1.47E-04 | 7.96E-05 |
| 1322 | 258949.7 | 4084059 | 9.88E-04 | 1.51E-04 | 8.15E-05 |
| 1323 | 258972.4 | 4084067 | 1.01E-03 | 1.54E-04 | 8.33E-05 |
| 1324 | 258995.1 | 4084075 | 1.03E-03 | 1.57E-04 | 8.49E-05 |
| 1325 | 259017.8 | 4084084 | 1.05E-03 | 1.60E-04 | 8.64E-05 |
| 1326 | 259040.5 | 4084092 | 1.06E-03 | 1.62E-04 | 8.77E-05 |
| 1327 | 259063.3 | 4084101 | 1.08E-03 | 1.64E-04 | 8.87E-05 |
| 1328 | 259086 | 4084109 | 1.09E-03 | 1.65E-04 | 8.95E-05 |
| 1329 | 259118.7 | 4084139 | 1.12E-03 | 1.71E-04 | 9.26E-05 |
| 1330 | 259128.7 | 4084162 | 1.15E-03 | 1.76E-04 | 9.51E-05 |
| 1331 | 259138.7 | 4084184 | 1.18E-03 | 1.80E-04 | 9.72E-05 |
| 1332 | 259148.6 | 4084206 | 1.20E-03 | 1.83E-04 | 9.91E-05 |
| 1333 | 259158.6 | 4084228 | 1.22E-03 | 1.86E-04 | 1.01E-04 |
| 1334 | 259168.6 | 4084250 | 1.24E-03 | 1.88E-04 | 1.02E-04 |
| 1335 | 259178.6 | 4084272 | 1.25E-03 | 1.90E-04 | 1.03E-04 |
| 1336 | 259188.6 | 4084294 | 1.25E-03 | 1.91E-04 | 1.03E-04 |
| 1337 | 259198.6 | 4084316 | 1.26E-03 | 1.91E-04 | 1.03E-04 |
| 1338 | 259208.6 | 4084338 | 1.25E-03 | 1.91E-04 | 1.03E-04 |
| 1339 | 259218.5 | 4084360 | 1.25E-03 | 1.90E-04 | 1.03E-04 |
| 1340 | 259228.5 | 4084382 | 1.23E-03 | 1.88E-04 | 1.02E-04 |
| 1341 | 259238.5 | 4084404 | 1.22E-03 | 1.86E-04 | 1.00E-04 |
| 1342 | 259248.5 | 4084426 | 1.20E-03 | 1.83E-04 | 9.92E-05 |
| 1343 | 259258.5 | 4084449 | 1.18E-03 | 1.80E-04 | 9.74E-05 |
| 1344 | 259268.5 | 4084471 | 1.16E-03 | 1.76E-04 | 9.54E-05 |
| 1345 | 259278.5 | 4084493 | 1.13E-03 | 1.72E-04 | 9.32E-05 |
| 1346 | 259288.5 | 4084515 | 1.10E-03 | 1.68E-04 | 9.09E-05 |
| 1347 | 259298.4 | 4084537 | 1.07E-03 | 1.63E-04 | 8.84E-05 |
| 1348 | 259308.4 | 4084559 | 1.04E-03 | 1.59E-04 | 8.59E-05 |
| 1349 | 259318.4 | 4084581 | 1.01E-03 | 1.54E-04 | 8.33E-05 |
| 1350 | 259328.4 | 4084603 | 9.78E-04 | 1.49E-04 | 8.06E-05 |
| 1351 | 259338.4 | 4084625 | 9.43E-04 | 1.44E-04 | 7.78E-05 |
| 1352 | 259348.4 | 4084647 | 9.08E-04 | 1.38E-04 | 7.49E-05 |
| 1353 | 259358.4 | 4084669 | 8.72E-04 | 1.33E-04 | 7.19E-05 |
| 1354 | 259368.3 | 4084691 | 8.35E-04 | 1.27E-04 | 6.88E-05 |
| 1355 | 259378.3 | 4084713 | 7.99E-04 | 1.22E-04 | 6.59E-05 |
| 1356 | 259388.3 | 4084735 | 7.64E-04 | 1.16E-04 | 6.30E-05 |

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| 1263 | 258273.1 | 4084025 | 4.09E-04 | 6.23E-05 | 3.37E-05 |
| 1264 | 258248.7 | 4084026 | 3.94E-04 | 6.00E-05 | 3.24E-05 |
| 1265 | 258224.4 | 4084027 | 3.79E-04 | 5.77E-05 | 3.12E-05 |
| 1266 | 258200.1 | 4084028 | 3.64E-04 | 5.55E-05 | 3.00E-05 |
| 1267 | 258175.7 | 4084029 | 3.50E-04 | 5.33E-05 | 2.89E-05 |
| 1268 | 258151.4 | 4084030 | 3.37E-04 | 5.13E-05 | 2.77E-05 |
| 1269 | 258127.1 | 4084031 | 3.23E-04 | 4.93E-05 | 2.67E-05 |
| 1270 | 258102.7 | 4084032 | 3.11E-04 | 4.74E-05 | 2.56E-05 |
| 1271 | 258078.4 | 4084033 | 2.99E-04 | 4.55E-05 | 2.46E-05 |
| 1272 | 258054.1 | 4084034 | 2.87E-04 | 4.37E-05 | 2.37E-05 |
| 1273 | 258029.7 | 4084035 | 2.76E-04 | 4.20E-05 | 2.27E-05 |
| 1274 | 258005.4 | 4084036 | 2.65E-04 | 4.04E-05 | 2.19E-05 |
| 1275 | 257981.1 | 4084037 | 2.56E-04 | 3.89E-05 | 2.11E-05 |
| 1276 | 257956.7 | 4084038 | 2.46E-04 | 3.75E-05 | 2.03E-05 |
| 1277 | 257932.4 | 4084039 | 2.38E-04 | 3.62E-05 | 1.96E-05 |
| 1278 | 257908.1 | 4084040 | 2.30E-04 | 3.50E-05 | 1.89E-05 |
| 1279 | 257883.7 | 4084041 | 2.23E-04 | 3.39E-05 | 1.83E-05 |
| 1280 | 257859.4 | 4084042 | 2.16E-04 | 3.29E-05 | 1.78E-05 |
| 1281 | 257835.1 | 4084043 | 2.10E-04 | 3.20E-05 | 1.73E-05 |
| 1282 | 257810.7 | 4084044 | 2.04E-04 | 3.11E-05 | 1.68E-05 |
| 1283 | 257786.4 | 4084045 | 1.99E-04 | 3.03E-05 | 1.64E-05 |
| 1284 | 257762.1 | 4084046 | 1.95E-04 | 2.96E-05 | 1.60E-05 |
| 1285 | 257737.8 | 4084047 | 1.90E-04 | 2.90E-05 | 1.57E-05 |
| 1286 | 257713.4 | 4084048 | 1.86E-04 | 2.84E-05 | 1.54E-05 |
| 1287 | 257689.1 | 4084049 | 1.83E-04 | 2.79E-05 | 1.51E-05 |
| 1288 | 257664.8 | 4084050 | 1.79E-04 | 2.73E-05 | 1.48E-05 |
| 1289 | 257640.4 | 4084051 | 1.76E-04 | 2.68E-05 | 1.45E-05 |
| 1290 | 257616.1 | 4084052 | 1.72E-04 | 2.63E-05 | 1.42E-05 |
| 1291 | 257591.8 | 4084053 | 1.69E-04 | 2.58E-05 | 1.39E-05 |
| 1292 | 257567.4 | 4084054 | 1.66E-04 | 2.52E-05 | 1.36E-05 |
| 1293 | 257543.1 | 4084055 | 1.62E-04 | 2.47E-05 | 1.34E-05 |
| 1294 | 257518.8 | 4084056 | 1.58E-04 | 2.41E-05 | 1.31E-05 |
| 1295 | 258336.2 | 4083831 | 2.80E-04 | 4.26E-05 | 2.30E-05 |
| 1296 | 258358.9 | 4083840 | 2.94E-04 | 4.48E-05 | 2.42E-05 |
| 1297 | 258381.7 | 4083848 | 3.10E-04 | 4.72E-05 | 2.55E-05 |
| 1298 | 258404.4 | 4083857 | 3.27E-04 | 4.98E-05 | 2.69E-05 |
| 1299 | 258427.1 | 4083865 | 3.45E-04 | 5.26E-05 | 2.85E-05 |
| 1300 | 258449.8 | 4083873 | 3.65E-04 | 5.56E-05 | 3.01E-05 |
| 1301 | 258472.5 | 4083882 | 3.86E-04 | 5.89E-05 | 3.19E-05 |
| 1302 | 258495.3 | 4083890 | 4.09E-04 | 6.23E-05 | 3.37E-05 |
| 1303 | 258518 | 4083899 | 4.33E-04 | 6.59E-05 | 3.57E-05 |
| 1304 | 258540.7 | 4083907 | 4.58E-04 | 6.98E-05 | 3.77E-05 |
| 1305 | 258563.4 | 4083916 | 4.84E-04 | 7.38E-05 | 3.99E-05 |
| 1306 | 258586.1 | 4083924 | 5.12E-04 | 7.80E-05 | 4.22E-05 |
| 1307 | 258608.9 | 4083932 | 5.40E-04 | 8.23E-05 | 4.45E-05 |
| 1308 | 258631.6 | 4083941 | 5.70E-04 | 8.68E-05 | 4.70E-05 |
| 1309 | 258654.3 | 4083949 | 6.00E-04 | 9.14E-05 | 4.94E-05 |

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| 1216 | 258590.9 | 4084123 | 9.08E-04 | 1.38E-04 | 7.49E-05 |
| 1217 | 258613.4 | 4084131 | 9.55E-04 | 1.45E-04 | 7.87E-05 |
| 1218 | 258635.8 | 4084139 | 1.00E-03 | 1.53E-04 | 8.26E-05 |
| 1219 | 258658.2 | 4084147 | 1.05E-03 | 1.60E-04 | 8.64E-05 |
| 1220 | 258680.7 | 4084156 | 1.09E-03 | 1.67E-04 | 9.02E-05 |
| 1221 | 258703.1 | 4084164 | 1.14E-03 | 1.74E-04 | 9.40E-05 |
| 1222 | 258725.5 | 4084172 | 1.18E-03 | 1.80E-04 | 9.76E-05 |
| 1223 | 258748 | 4084181 | 1.23E-03 | 1.87E-04 | 1.01E-04 |
| 1224 | 258770.4 | 4084189 | 1.27E-03 | 1.93E-04 | 1.04E-04 |
| 1225 | 258792.9 | 4084197 | 1.31E-03 | 1.99E-04 | 1.08E-04 |
| 1226 | 258815.3 | 4084206 | 1.34E-03 | 2.04E-04 | 1.11E-04 |
| 1227 | 258837.7 | 4084214 | 1.37E-03 | 2.09E-04 | 1.13E-04 |
| 1228 | 258860.2 | 4084222 | 1.40E-03 | 2.14E-04 | 1.16E-04 |
| 1229 | 258882.6 | 4084230 | 1.43E-03 | 2.17E-04 | 1.18E-04 |
| 1230 | 258905 | 4084239 | 1.45E-03 | 2.21E-04 | 1.19E-04 |
| 1231 | 258927.5 | 4084247 | 1.46E-03 | 2.23E-04 | 1.21E-04 |
| 1232 | 258949.9 | 4084255 | 1.47E-03 | 2.24E-04 | 1.21E-04 |
| 1233 | 258982.2 | 4084286 | 1.52E-03 | 2.32E-04 | 1.26E-04 |
| 1234 | 258992.1 | 4084307 | 1.56E-03 | 2.38E-04 | 1.29E-04 |
| 1235 | 259001.9 | 4084329 | 1.60E-03 | 2.43E-04 | 1.32E-04 |
| 1236 | 259011.8 | 4084351 | 1.63E-03 | 2.48E-04 | 1.34E-04 |
| 1237 | 259021.6 | 4084373 | 1.65E-03 | 2.51E-04 | 1.36E-04 |
| 1238 | 259031.5 | 4084394 | 1.66E-03 | 2.53E-04 | 1.37E-04 |
| 1239 | 259041.4 | 4084416 | 1.67E-03 | 2.54E-04 | 1.38E-04 |
| 1240 | 259051.2 | 4084438 | 1.67E-03 | 2.54E-04 | 1.38E-04 |
| 1241 | 259061.1 | 4084460 | 1.66E-03 | 2.53E-04 | 1.37E-04 |
| 1242 | 259070.9 | 4084482 | 1.65E-03 | 2.51E-04 | 1.36E-04 |
| 1243 | 259080.8 | 4084503 | 1.63E-03 | 2.48E-04 | 1.34E-04 |
| 1244 | 259090.7 | 4084525 | 1.60E-03 | 2.43E-04 | 1.32E-04 |
| 1245 | 259100.5 | 4084547 | 1.56E-03 | 2.38E-04 | 1.29E-04 |
| 1246 | 259110.4 | 4084569 | 1.52E-03 | 2.32E-04 | 1.26E-04 |
| 1247 | 259120.2 | 4084591 | 1.48E-03 | 2.26E-04 | 1.22E-04 |
| 1248 | 259130.1 | 4084612 | 1.43E-03 | 2.18E-04 | 1.18E-04 |
| 1249 | 259140 | 4084634 | 1.38E-03 | 2.11E-04 | 1.14E-04 |
| 1250 | 259149.8 | 4084656 | 1.33E-03 | 2.03E-04 | 1.10E-04 |
| 1251 | 259159.7 | 4084678 | 1.28E-03 | 1.95E-04 | 1.05E-04 |
| 1252 | 259169.6 | 4084700 | 1.22E-03 | 1.87E-04 | 1.01E-04 |
| 1253 | 259179.4 | 4084721 | 1.17E-03 | 1.78E-04 | 9.62E-05 |
| 1254 | 259189.3 | 4084743 | 1.11E-03 | 1.69E-04 | 9.16E-05 |
| 1255 | 259199.1 | 4084765 | 1.06E-03 | 1.61E-04 | 8.71E-05 |
| 1256 | 259209 | 4084787 | 1.00E-03 | 1.53E-04 | 8.25E-05 |
| 1257 | 259218.9 | 4084809 | 9.51E-04 | 1.45E-04 | 7.84E-05 |
| 1258 | 259228.7 | 4084830 | 9.03E-04 | 1.38E-04 | 7.44E-05 |
| 1259 | 259238.6 | 4084852 | 8.59E-04 | 1.31E-04 | 7.08E-05 |
| 1260 | 259248.4 | 4084874 | 8.16E-04 | 1.24E-04 | 6.73E-05 |
| 1261 | 258321.7 | 4084023 | 4.42E-04 | 6.73E-05 | 3.64E-05 |
| 1262 | 258297.4 | 4084024 | 4.25E-04 | 6.48E-05 | 3.50E-05 |

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| 1169 | 259039 | 4084859 | 1.33E-03 | 2.03E-04 | 1.10E-04 |
| 1170 | 259048.7 | 4084880 | 1.25E-03 | 1.90E-04 | 1.03E-04 |
| 1171 | 258329.9 | 4084223 | 8.60E-04 | 1.31E-04 | 7.09E-05 |
| 1172 | 258305.6 | 4084224 | 8.25E-04 | 1.26E-04 | 6.80E-05 |
| 1173 | 258281.3 | 4084225 | 7.91E-04 | 1.20E-04 | 6.52E-05 |
| 1174 | 258256.9 | 4084226 | 7.57E-04 | 1.15E-04 | 6.24E-05 |
| 1175 | 258232.6 | 4084227 | 7.23E-04 | 1.10E-04 | 5.96E-05 |
| 1176 | 258208.3 | 4084228 | 6.90E-04 | 1.05E-04 | 5.68E-05 |
| 1177 | 258183.9 | 4084229 | 6.57E-04 | 1.00E-04 | 5.41E-05 |
| 1178 | 258159.6 | 4084230 | 6.25E-04 | 9.52E-05 | 5.15E-05 |
| 1179 | 258135.3 | 4084231 | 5.94E-04 | 9.05E-05 | 4.90E-05 |
| 1180 | 258110.9 | 4084232 | 5.65E-04 | 8.60E-05 | 4.65E-05 |
| 1181 | 258086.6 | 4084233 | 5.37E-04 | 8.18E-05 | 4.42E-05 |
| 1182 | 258062.3 | 4084234 | 5.10E-04 | 7.77E-05 | 4.21E-05 |
| 1183 | 258037.9 | 4084235 | 4.85E-04 | 7.39E-05 | 4.00E-05 |
| 1184 | 258013.6 | 4084236 | 4.62E-04 | 7.04E-05 | 3.81E-05 |
| 1185 | 257989.3 | 4084237 | 4.40E-04 | 6.70E-05 | 3.63E-05 |
| 1186 | 257965 | 4084238 | 4.20E-04 | 6.40E-05 | 3.46E-05 |
| 1187 | 257940.6 | 4084239 | 4.01E-04 | 6.11E-05 | 3.30E-05 |
| 1188 | 257916.3 | 4084240 | 3.83E-04 | 5.84E-05 | 3.16E-05 |
| 1189 | 257892 | 4084241 | 3.67E-04 | 5.59E-05 | 3.02E-05 |
| 1190 | 257867.6 | 4084242 | 3.52E-04 | 5.36E-05 | 2.90E-05 |
| 1191 | 257843.3 | 4084243 | 3.38E-04 | 5.15E-05 | 2.78E-05 |
| 1192 | 257819 | 4084244 | 3.25E-04 | 4.95E-05 | 2.68E-05 |
| 1193 | 257794.6 | 4084245 | 3.13E-04 | 4.77E-05 | 2.58E-05 |
| 1194 | 257770.3 | 4084246 | 3.02E-04 | 4.60E-05 | 2.49E-05 |
| 1195 | 257746 | 4084247 | 2.92E-04 | 4.44E-05 | 2.40E-05 |
| 1196 | 257721.6 | 4084248 | 2.82E-04 | 4.29E-05 | 2.32E-05 |
| 1197 | 257697.3 | 4084249 | 2.73E-04 | 4.15E-05 | 2.25E-05 |
| 1198 | 257673 | 4084250 | 2.64E-04 | 4.03E-05 | 2.18E-05 |
| 1199 | 257648.6 | 4084251 | 2.56E-04 | 3.90E-05 | 2.11E-05 |
| 1200 | 257624.3 | 4084252 | 2.49E-04 | 3.79E-05 | 2.05E-05 |
| 1201 | 257600 | 4084253 | 2.41E-04 | 3.68E-05 | 1.99E-05 |
| 1202 | 257575.6 | 4084254 | 2.34E-04 | 3.57E-05 | 1.93E-05 |
| 1203 | 257551.3 | 4084255 | 2.28E-04 | 3.47E-05 | 1.88E-05 |
| 1204 | 257527 | 4084256 | 2.22E-04 | 3.38E-05 | 1.83E-05 |
| 1205 | 258344.2 | 4084031 | 4.70E-04 | 7.17E-05 | 3.88E-05 |
| 1206 | 258366.6 | 4084039 | 5.01E-04 | 7.63E-05 | 4.13E-05 |
| 1207 | 258389 | 4084048 | 5.34E-04 | 8.13E-05 | 4.40E-05 |
| 1208 | 258411.5 | 4084056 | 5.69E-04 | 8.66E-05 | 4.69E-05 |
| 1209 | 258433.9 | 4084064 | 6.05E-04 | 9.22E-05 | 4.99E-05 |
| 1210 | 258456.3 | 4084073 | 6.44E-04 | 9.82E-05 | 5.31E-05 |
| 1211 | 258478.8 | 4084081 | 6.85E-04 | 1.04E-04 | 5.65E-05 |
| 1212 | 258501.2 | 4084089 | 7.27E-04 | 1.11E-04 | 5.99E-05 |
| 1213 | 258523.6 | 4084098 | 7.71E-04 | 1.17E-04 | 6.35E-05 |
| 1214 | 258546.1 | 4084106 | 8.16E-04 | 1.24E-04 | 6.72E-05 |
| 1215 | 258568.5 | 4084114 | 8.62E-04 | 1.31E-04 | 7.10E-05 |

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| 1122 | 257628.4 | 4084352 | 3.13E-04 | 4.77E-05 | 2.58E-05 |
| 1123 | 257604.1 | 4084353 | 3.03E-04 | 4.62E-05 | 2.50E-05 |
| 1124 | 257579.8 | 4084354 | 2.94E-04 | 4.47E-05 | 2.42E-05 |
| 1125 | 257555.4 | 4084355 | 2.85E-04 | 4.34E-05 | 2.35E-05 |
| 1126 | 257531.1 | 4084356 | 2.77E-04 | 4.21E-05 | 2.28E-05 |
| 1127 | 258351.9 | 4084231 | 9.21E-04 | 1.40E-04 | 7.59E-05 |
| 1128 | 258373.9 | 4084239 | 9.85E-04 | 1.50E-04 | 8.12E-05 |
| 1129 | 258395.9 | 4084247 | 1.05E-03 | 1.60E-04 | 8.66E-05 |
| 1130 | 258417.9 | 4084255 | 1.12E-03 | 1.71E-04 | 9.23E-05 |
| 1131 | 258439.9 | 4084263 | 1.19E-03 | 1.81E-04 | 9.81E-05 |
| 1132 | 258461.9 | 4084272 | 1.26E-03 | 1.92E-04 | 1.04E-04 |
| 1133 | 258483.9 | 4084280 | 1.33E-03 | 2.03E-04 | 1.10E-04 |
| 1134 | 258505.9 | 4084288 | 1.41E-03 | 2.14E-04 | 1.16E-04 |
| 1135 | 258527.9 | 4084296 | 1.48E-03 | 2.25E-04 | 1.22E-04 |
| 1136 | 258549.9 | 4084304 | 1.55E-03 | 2.36E-04 | 1.28E-04 |
| 1137 | 258571.9 | 4084312 | 1.62E-03 | 2.47E-04 | 1.34E-04 |
| 1138 | 258594 | 4084320 | 1.69E-03 | 2.58E-04 | 1.39E-04 |
| 1139 | 258616 | 4084329 | 1.76E-03 | 2.68E-04 | 1.45E-04 |
| 1140 | 258638 | 4084337 | 1.82E-03 | 2.77E-04 | 1.50E-04 |
| 1141 | 258660 | 4084345 | 1.88E-03 | 2.87E-04 | 1.55E-04 |
| 1142 | 258682 | 4084353 | 1.94E-03 | 2.95E-04 | 1.60E-04 |
| 1143 | 258704 | 4084361 | 1.99E-03 | 3.03E-04 | 1.64E-04 |
| 1144 | 258726 | 4084369 | 2.03E-03 | 3.09E-04 | 1.67E-04 |
| 1145 | 258748 | 4084377 | 2.07E-03 | 3.15E-04 | 1.70E-04 |
| 1146 | 258770 | 4084386 | 2.10E-03 | 3.19E-04 | 1.73E-04 |
| 1147 | 258792 | 4084394 | 2.12E-03 | 3.22E-04 | 1.74E-04 |
| 1148 | 258814 | 4084402 | 2.12E-03 | 3.23E-04 | 1.75E-04 |
| 1149 | 258845.6 | 4084431 | 2.19E-03 | 3.34E-04 | 1.81E-04 |
| 1150 | 258855.3 | 4084453 | 2.25E-03 | 3.43E-04 | 1.85E-04 |
| 1151 | 258865 | 4084474 | 2.30E-03 | 3.50E-04 | 1.90E-04 |
| 1152 | 258874.6 | 4084496 | 2.34E-03 | 3.56E-04 | 1.93E-04 |
| 1153 | 258884.3 | 4084517 | 2.36E-03 | 3.60E-04 | 1.95E-04 |
| 1154 | 258894 | 4084538 | 2.37E-03 | 3.61E-04 | 1.95E-04 |
| 1155 | 258903.7 | 4084560 | 2.37E-03 | 3.61E-04 | 1.95E-04 |
| 1156 | 258913.3 | 4084581 | 2.35E-03 | 3.58E-04 | 1.94E-04 |
| 1157 | 258923 | 4084602 | 2.32E-03 | 3.53E-04 | 1.91E-04 |
| 1158 | 258932.7 | 4084624 | 2.27E-03 | 3.46E-04 | 1.87E-04 |
| 1159 | 258942.3 | 4084645 | 2.22E-03 | 3.38E-04 | 1.83E-04 |
| 1160 | 258952 | 4084667 | 2.15E-03 | 3.27E-04 | 1.77E-04 |
| 1161 | 258961.7 | 4084688 | 2.07E-03 | 3.15E-04 | 1.70E-04 |
| 1162 | 258971.4 | 4084709 | 1.98E-03 | 3.02E-04 | 1.63E-04 |
| 1163 | 258981 | 4084731 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 1164 | 258990.7 | 4084752 | 1.79E-03 | 2.73E-04 | 1.48E-04 |
| 1165 | 259000.4 | 4084773 | 1.70E-03 | 2.58E-04 | 1.40E-04 |
| 1166 | 259010 | 4084795 | 1.60E-03 | 2.44E-04 | 1.32E-04 |
| 1167 | 259019.7 | 4084816 | 1.51E-03 | 2.30E-04 | 1.24E-04 |
| 1168 | 259029.4 | 4084838 | 1.42E-03 | 2.16E-04 | 1.17E-04 |

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| 1075 | 258777.8 | 4084505 | 2.72E-03 | 4.14E-04 | 2.24E-04 |
| 1076 | 258787.9 | 4084528 | 2.80E-03 | 4.26E-04 | 2.31E-04 |
| 1077 | 258797.9 | 4084550 | 2.86E-03 | 4.36E-04 | 2.36E-04 |
| 1078 | 258807.9 | 4084572 | 2.90E-03 | 4.42E-04 | 2.39E-04 |
| 1079 | 258818 | 4084594 | 2.92E-03 | 4.45E-04 | 2.41E-04 |
| 1080 | 258828 | 4084616 | 2.92E-03 | 4.45E-04 | 2.41E-04 |
| 1081 | 258838 | 4084638 | 2.90E-03 | 4.41E-04 | 2.39E-04 |
| 1082 | 258848.1 | 4084661 | 2.85E-03 | 4.34E-04 | 2.35E-04 |
| 1083 | 258858.1 | 4084683 | 2.77E-03 | 4.22E-04 | 2.29E-04 |
| 1084 | 258868.1 | 4084705 | 2.68E-03 | 4.08E-04 | 2.21E-04 |
| 1085 | 258878.2 | 4084727 | 2.57E-03 | 3.92E-04 | 2.12E-04 |
| 1086 | 258888.2 | 4084749 | 2.45E-03 | 3.73E-04 | 2.02E-04 |
| 1087 | 258898.2 | 4084771 | 2.31E-03 | 3.52E-04 | 1.91E-04 |
| 1088 | 258908.3 | 4084794 | 2.17E-03 | 3.31E-04 | 1.79E-04 |
| 1089 | 258918.3 | 4084816 | 2.04E-03 | 3.10E-04 | 1.68E-04 |
| 1090 | 258928.3 | 4084838 | 1.90E-03 | 2.89E-04 | 1.57E-04 |
| 1091 | 258938.4 | 4084860 | 1.77E-03 | 2.69E-04 | 1.46E-04 |
| 1092 | 258948.4 | 4084882 | 1.64E-03 | 2.50E-04 | 1.35E-04 |
| 1093 | 258334 | 4084323 | 1.27E-03 | 1.93E-04 | 1.04E-04 |
| 1094 | 258309.7 | 4084324 | 1.22E-03 | 1.86E-04 | 1.01E-04 |
| 1095 | 258285.4 | 4084325 | 1.17E-03 | 1.79E-04 | 9.67E-05 |
| 1096 | 258261 | 4084326 | 1.13E-03 | 1.71E-04 | 9.27E-05 |
| 1097 | 258236.7 | 4084327 | 1.08E-03 | 1.64E-04 | 8.87E-05 |
| 1098 | 258212.4 | 4084328 | 1.03E-03 | 1.56E-04 | 8.46E-05 |
| 1099 | 258188 | 4084329 | 9.77E-04 | 1.49E-04 | 8.06E-05 |
| 1100 | 258163.7 | 4084330 | 9.29E-04 | 1.41E-04 | 7.66E-05 |
| 1101 | 258139.4 | 4084331 | 8.81E-04 | 1.34E-04 | 7.26E-05 |
| 1102 | 258115.1 | 4084332 | 8.34E-04 | 1.27E-04 | 6.87E-05 |
| 1103 | 258090.7 | 4084333 | 7.89E-04 | 1.20E-04 | 6.50E-05 |
| 1104 | 258066.4 | 4084334 | 7.46E-04 | 1.14E-04 | 6.15E-05 |
| 1105 | 258042.1 | 4084335 | 7.05E-04 | 1.07E-04 | 5.81E-05 |
| 1106 | 258017.7 | 4084336 | 6.66E-04 | 1.02E-04 | 5.49E-05 |
| 1107 | 257993.4 | 4084337 | 6.30E-04 | 9.60E-05 | 5.19E-05 |
| 1108 | 257969.1 | 4084338 | 5.96E-04 | 9.09E-05 | 4.92E-05 |
| 1109 | 257944.7 | 4084339 | 5.65E-04 | 8.61E-05 | 4.66E-05 |
| 1110 | 257920.4 | 4084340 | 5.36E-04 | 8.16E-05 | 4.41E-05 |
| 1111 | 257896.1 | 4084341 | 5.08E-04 | 7.74E-05 | 4.19E-05 |
| 1112 | 257871.7 | 4084342 | 4.83E-04 | 7.36E-05 | 3.98E-05 |
| 1113 | 257847.4 | 4084343 | 4.59E-04 | 7.00E-05 | 3.79E-05 |
| 1114 | 257823.1 | 4084344 | 4.37E-04 | 6.66E-05 | 3.60E-05 |
| 1115 | 257798.7 | 4084345 | 4.17E-04 | 6.35E-05 | 3.44E-05 |
| 1116 | 257774.4 | 4084346 | 3.98E-04 | 6.06E-05 | 3.28E-05 |
| 1117 | 257750.1 | 4084347 | 3.81E-04 | 5.80E-05 | 3.14E-05 |
| 1118 | 257725.7 | 4084348 | 3.65E-04 | 5.56E-05 | 3.01E-05 |
| 1119 | 257701.4 | 4084349 | 3.50E-04 | 5.33E-05 | 2.89E-05 |
| 1120 | 257677.1 | 4084350 | 3.37E-04 | 5.13E-05 | 2.78E-05 |
| 1121 | 257652.7 | 4084351 | 3.25E-04 | 4.94E-05 | 2.68E-05 |

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| 1028 | 258216.5 | 4084427 | 1.61E-03 | 2.45E-04 | 1.32E-04 |
| 1029 | 258192.2 | 4084428 | 1.53E-03 | 2.34E-04 | 1.27E-04 |
| 1030 | 258167.8 | 4084429 | 1.46E-03 | 2.23E-04 | 1.21E-04 |
| 1031 | 258143.5 | 4084430 | 1.39E-03 | 2.12E-04 | 1.15E-04 |
| 1032 | 258119.2 | 4084431 | 1.32E-03 | 2.01E-04 | 1.09E-04 |
| 1033 | 258094.8 | 4084432 | 1.25E-03 | 1.90E-04 | 1.03E-04 |
| 1034 | 258070.5 | 4084433 | 1.18E-03 | 1.79E-04 | 9.70E-05 |
| 1035 | 258046.2 | 4084434 | 1.11E-03 | 1.69E-04 | 9.14E-05 |
| 1036 | 258021.8 | 4084435 | 1.04E-03 | 1.59E-04 | 8.59E-05 |
| 1037 | 257997.5 | 4084436 | 9.79E-04 | 1.49E-04 | 8.07E-05 |
| 1038 | 257973.2 | 4084437 | 9.19E-04 | 1.40E-04 | 7.57E-05 |
| 1039 | 257948.8 | 4084438 | 8.62E-04 | 1.31E-04 | 7.10E-05 |
| 1040 | 257924.5 | 4084439 | 8.08E-04 | 1.23E-04 | 6.66E-05 |
| 1041 | 257900.2 | 4084440 | 7.58E-04 | 1.15E-04 | 6.25E-05 |
| 1042 | 257875.8 | 4084441 | 7.11E-04 | 1.08E-04 | 5.86E-05 |
| 1043 | 257851.5 | 4084442 | 6.68E-04 | 1.02E-04 | 5.51E-05 |
| 1044 | 257827.2 | 4084443 | 6.28E-04 | 9.57E-05 | 5.18E-05 |
| 1045 | 257802.8 | 4084444 | 5.91E-04 | 9.01E-05 | 4.87E-05 |
| 1046 | 257778.5 | 4084445 | 5.58E-04 | 8.50E-05 | 4.60E-05 |
| 1047 | 257754.2 | 4084446 | 5.28E-04 | 8.04E-05 | 4.35E-05 |
| 1048 | 257729.9 | 4084447 | 5.01E-04 | 7.63E-05 | 4.13E-05 |
| 1049 | 257705.5 | 4084448 | 4.76E-04 | 7.25E-05 | 3.92E-05 |
| 1050 | 257681.2 | 4084449 | 4.54E-04 | 6.92E-05 | 3.74E-05 |
| 1051 | 257656.9 | 4084450 | 4.34E-04 | 6.61E-05 | 3.58E-05 |
| 1052 | 257632.5 | 4084451 | 4.16E-04 | 6.34E-05 | 3.43E-05 |
| 1053 | 257608.2 | 4084452 | 4.00E-04 | 6.09E-05 | 3.29E-05 |
| 1054 | 257583.9 | 4084453 | 3.84E-04 | 5.86E-05 | 3.17E-05 |
| 1055 | 257559.5 | 4084454 | 3.70E-04 | 5.64E-05 | 3.05E-05 |
| 1056 | 257535.2 | 4084455 | 3.57E-04 | 5.44E-05 | 2.94E-05 |
| 1057 | 258356.9 | 4084331 | 1.36E-03 | 2.07E-04 | 1.12E-04 |
| 1058 | 258379.7 | 4084339 | 1.45E-03 | 2.21E-04 | 1.20E-04 |
| 1059 | 258402.5 | 4084348 | 1.55E-03 | 2.36E-04 | 1.28E-04 |
| 1060 | 258425.4 | 4084356 | 1.65E-03 | 2.51E-04 | 1.36E-04 |
| 1061 | 258448.2 | 4084365 | 1.74E-03 | 2.66E-04 | 1.44E-04 |
| 1062 | 258471 | 4084373 | 1.84E-03 | 2.81E-04 | 1.52E-04 |
| 1063 | 258493.8 | 4084382 | 1.94E-03 | 2.95E-04 | 1.60E-04 |
| 1064 | 258516.7 | 4084390 | 2.03E-03 | 3.10E-04 | 1.68E-04 |
| 1065 | 258539.5 | 4084399 | 2.13E-03 | 3.24E-04 | 1.75E-04 |
| 1066 | 258562.3 | 4084407 | 2.22E-03 | 3.38E-04 | 1.83E-04 |
| 1067 | 258585.2 | 4084416 | 2.30E-03 | 3.50E-04 | 1.90E-04 |
| 1068 | 258608 | 4084424 | 2.38E-03 | 3.62E-04 | 1.96E-04 |
| 1069 | 258630.8 | 4084432 | 2.45E-03 | 3.73E-04 | 2.02E-04 |
| 1070 | 258653.6 | 4084441 | 2.51E-03 | 3.82E-04 | 2.07E-04 |
| 1071 | 258676.5 | 4084449 | 2.56E-03 | 3.90E-04 | 2.11E-04 |
| 1072 | 258699.3 | 4084458 | 2.60E-03 | 3.96E-04 | 2.14E-04 |
| 1073 | 258722.1 | 4084466 | 2.62E-03 | 3.99E-04 | 2.16E-04 |
| 1074 | 258745 | 4084475 | 2.63E-03 | 4.01E-04 | 2.17E-04 |

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| 981 | 257807 | 4084544 | 9.26E-04 | 1.41E-04 | 7.63E-05 |
| 982 | 257782.6 | 4084545 | 8.60E-04 | 1.31E-04 | 7.09E-05 |
| 983 | 257758.3 | 4084546 | 8.01E-04 | 1.22E-04 | 6.60E-05 |
| 984 | 257734 | 4084547 | 7.48E-04 | 1.14E-04 | 6.16E-05 |
| 985 | 257709.6 | 4084548 | 7.00E-04 | 1.07E-04 | 5.77E-05 |
| 986 | 257685.3 | 4084549 | 6.57E-04 | 1.00E-04 | 5.42E-05 |
| 987 | 257661 | 4084550 | 6.19E-04 | 9.43E-05 | 5.10E-05 |
| 988 | 257636.6 | 4084551 | 5.85E-04 | 8.91E-05 | 4.82E-05 |
| 989 | 257612.3 | 4084552 | 5.54E-04 | 8.43E-05 | 4.56E-05 |
| 990 | 257588 | 4084553 | 5.25E-04 | 8.01E-05 | 4.33E-05 |
| 991 | 257563.6 | 4084554 | 5.00E-04 | 7.61E-05 | 4.12E-05 |
| 992 | 257539.3 | 4084555 | 4.76E-04 | 7.25E-05 | 3.92E-05 |
| 993 | 258360.7 | 4084431 | 2.05E-03 | 3.12E-04 | 1.69E-04 |
| 994 | 258383.3 | 4084439 | 2.18E-03 | 3.32E-04 | 1.80E-04 |
| 995 | 258405.9 | 4084448 | 2.31E-03 | 3.51E-04 | 1.90E-04 |
| 996 | 258428.5 | 4084456 | 2.44E-03 | 3.71E-04 | 2.01E-04 |
| 997 | 258451.1 | 4084464 | 2.56E-03 | 3.90E-04 | 2.11E-04 |
| 998 | 258473.7 | 4084473 | 2.68E-03 | 4.09E-04 | 2.21E-04 |
| 999 | 258496.3 | 4084481 | 2.80E-03 | 4.27E-04 | 2.31E-04 |
| 1000 | 258518.9 | 4084489 | 2.92E-03 | 4.44E-04 | 2.40E-04 |
| 1001 | 258541.5 | 4084498 | 3.02E-03 | 4.61E-04 | 2.49E-04 |
| 1002 | 258564.1 | 4084506 | 3.12E-03 | 4.75E-04 | 2.57E-04 |
| 1003 | 258586.6 | 4084514 | 3.20E-03 | 4.88E-04 | 2.64E-04 |
| 1004 | 258609.2 | 4084523 | 3.27E-03 | 4.99E-04 | 2.70E-04 |
| 1005 | 258631.8 | 4084531 | 3.32E-03 | 5.06E-04 | 2.74E-04 |
| 1006 | 258654.4 | 4084540 | 3.36E-03 | 5.11E-04 | 2.77E-04 |
| 1007 | 258677 | 4084548 | 3.37E-03 | 5.13E-04 | 2.78E-04 |
| 1008 | 258709.5 | 4084578 | 3.47E-03 | 5.29E-04 | 2.86E-04 |
| 1009 | 258719.5 | 4084600 | 3.58E-03 | 5.45E-04 | 2.95E-04 |
| 1010 | 258729.4 | 4084622 | 3.66E-03 | 5.58E-04 | 3.02E-04 |
| 1011 | 258739.3 | 4084644 | 3.71E-03 | 5.65E-04 | 3.06E-04 |
| 1012 | 258749.2 | 4084666 | 3.72E-03 | 5.67E-04 | 3.07E-04 |
| 1013 | 258759.2 | 4084688 | 3.69E-03 | 5.63E-04 | 3.05E-04 |
| 1014 | 258769.1 | 4084710 | 3.63E-03 | 5.53E-04 | 2.99E-04 |
| 1015 | 258779 | 4084732 | 3.53E-03 | 5.38E-04 | 2.91E-04 |
| 1016 | 258789 | 4084754 | 3.40E-03 | 5.17E-04 | 2.80E-04 |
| 1017 | 258798.9 | 4084776 | 3.23E-03 | 4.93E-04 | 2.67E-04 |
| 1018 | 258808.8 | 4084798 | 3.05E-03 | 4.65E-04 | 2.52E-04 |
| 1019 | 258818.8 | 4084820 | 2.86E-03 | 4.35E-04 | 2.36E-04 |
| 1020 | 258828.7 | 4084842 | 2.66E-03 | 4.05E-04 | 2.19E-04 |
| 1021 | 258838.6 | 4084864 | 2.46E-03 | 3.75E-04 | 2.03E-04 |
| 1022 | 258848.5 | 4084886 | 2.27E-03 | 3.46E-04 | 1.87E-04 |
| 1023 | 258338.1 | 4084422 | 1.92E-03 | 2.93E-04 | 1.58E-04 |
| 1024 | 258313.8 | 4084423 | 1.86E-03 | 2.84E-04 | 1.54E-04 |
| 1025 | 258289.5 | 4084424 | 1.80E-03 | 2.75E-04 | 1.49E-04 |
| 1026 | 258265.2 | 4084425 | 1.74E-03 | 2.65E-04 | 1.43E-04 |
| 1027 | 258240.8 | 4084426 | 1.67E-03 | 2.55E-04 | 1.38E-04 |

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| 934 | 257543.4 | 4084655 | 6.76E-04 | 1.03E-04 | 5.57E-05 |
| 935 | 258364.5 | 4084531 | 3.15E-03 | 4.81E-04 | 2.60E-04 |
| 936 | 258386.7 | 4084539 | 3.33E-03 | 5.07E-04 | 2.74E-04 |
| 937 | 258409 | 4084547 | 3.50E-03 | 5.33E-04 | 2.88E-04 |
| 938 | 258431.2 | 4084555 | 3.66E-03 | 5.58E-04 | 3.02E-04 |
| 939 | 258453.5 | 4084564 | 3.82E-03 | 5.82E-04 | 3.15E-04 |
| 940 | 258475.7 | 4084572 | 3.97E-03 | 6.05E-04 | 3.28E-04 |
| 941 | 258498 | 4084580 | 4.11E-03 | 6.26E-04 | 3.39E-04 |
| 942 | 258520.2 | 4084588 | 4.23E-03 | 6.45E-04 | 3.49E-04 |
| 943 | 258542.4 | 4084597 | 4.33E-03 | 6.60E-04 | 3.57E-04 |
| 944 | 258564.7 | 4084605 | 4.41E-03 | 6.72E-04 | 3.63E-04 |
| 945 | 258586.9 | 4084613 | 4.46E-03 | 6.79E-04 | 3.67E-04 |
| 946 | 258609.2 | 4084621 | 4.47E-03 | 6.81E-04 | 3.68E-04 |
| 947 | 258641.2 | 4084651 | 4.63E-03 | 7.06E-04 | 3.82E-04 |
| 948 | 258651 | 4084673 | 4.79E-03 | 7.29E-04 | 3.95E-04 |
| 949 | 258660.7 | 4084694 | 4.89E-03 | 7.44E-04 | 4.03E-04 |
| 950 | 258670.5 | 4084716 | 4.93E-03 | 7.50E-04 | 4.06E-04 |
| 951 | 258680.3 | 4084738 | 4.91E-03 | 7.48E-04 | 4.05E-04 |
| 952 | 258690.1 | 4084759 | 4.83E-03 | 7.36E-04 | 3.98E-04 |
| 953 | 258699.9 | 4084781 | 4.69E-03 | 7.14E-04 | 3.86E-04 |
| 954 | 258709.6 | 4084802 | 4.48E-03 | 6.83E-04 | 3.70E-04 |
| 955 | 258719.4 | 4084824 | 4.24E-03 | 6.45E-04 | 3.49E-04 |
| 956 | 258729.2 | 4084846 | 3.96E-03 | 6.03E-04 | 3.26E-04 |
| 957 | 258739 | 4084867 | 3.66E-03 | 5.58E-04 | 3.02E-04 |
| 958 | 258748.7 | 4084889 | 3.36E-03 | 5.12E-04 | 2.77E-04 |
| 959 | 258342.3 | 4084522 | 2.98E-03 | 4.54E-04 | 2.46E-04 |
| 960 | 258317.9 | 4084523 | 2.92E-03 | 4.45E-04 | 2.41E-04 |
| 961 | 258293.6 | 4084524 | 2.85E-03 | 4.35E-04 | 2.35E-04 |
| 962 | 258269.3 | 4084525 | 2.78E-03 | 4.24E-04 | 2.29E-04 |
| 963 | 258244.9 | 4084526 | 2.70E-03 | 4.11E-04 | 2.23E-04 |
| 964 | 258220.6 | 4084527 | 2.61E-03 | 3.98E-04 | 2.15E-04 |
| 965 | 258196.3 | 4084528 | 2.52E-03 | 3.84E-04 | 2.08E-04 |
| 966 | 258171.9 | 4084529 | 2.43E-03 | 3.70E-04 | 2.00E-04 |
| 967 | 258147.6 | 4084530 | 2.33E-03 | 3.54E-04 | 1.92E-04 |
| 968 | 258123.3 | 4084531 | 2.22E-03 | 3.38E-04 | 1.83E-04 |
| 969 | 258098.9 | 4084532 | 2.11E-03 | 3.22E-04 | 1.74E-04 |
| 970 | 258074.6 | 4084533 | 2.00E-03 | 3.05E-04 | 1.65E-04 |
| 971 | 258050.3 | 4084534 | 1.89E-03 | 2.89E-04 | 1.56E-04 |
| 972 | 258025.9 | 4084535 | 1.78E-03 | 2.72E-04 | 1.47E-04 |
| 973 | 258001.6 | 4084536 | 1.67E-03 | 2.55E-04 | 1.38E-04 |
| 974 | 257977.3 | 4084537 | 1.56E-03 | 2.38E-04 | 1.29E-04 |
| 975 | 257952.9 | 4084538 | 1.46E-03 | 2.22E-04 | 1.20E-04 |
| 976 | 257928.6 | 4084539 | 1.35E-03 | 2.06E-04 | 1.12E-04 |
| 977 | 257904.3 | 4084540 | 1.26E-03 | 1.91E-04 | 1.04E-04 |
| 978 | 257879.9 | 4084541 | 1.16E-03 | 1.77E-04 | 9.59E-05 |
| 979 | 257855.6 | 4084542 | 1.08E-03 | 1.64E-04 | 8.88E-05 |
| 980 | 257831.3 | 4084543 | 9.98E-04 | 1.52E-04 | 8.23E-05 |

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| 887 | 258454.8 | 4084662 | 5.86E-03 | 8.93E-04 | 4.83E-04 |
| 888 | 258476.5 | 4084670 | 6.03E-03 | 9.18E-04 | 4.97E-04 |
| 889 | 258498.2 | 4084679 | 6.15E-03 | 9.37E-04 | 5.07E-04 |
| 890 | 258519.9 | 4084687 | 6.23E-03 | 9.50E-04 | 5.14E-04 |
| 891 | 258541.5 | 4084695 | 6.26E-03 | 9.53E-04 | 5.16E-04 |
| 892 | 258572.8 | 4084724 | 6.52E-03 | 9.93E-04 | 5.37E-04 |
| 893 | 258582.3 | 4084745 | 6.76E-03 | 1.03E-03 | 5.57E-04 |
| 894 | 258591.8 | 4084766 | 6.88E-03 | 1.05E-03 | 5.67E-04 |
| 895 | 258601.4 | 4084787 | 6.91E-03 | 1.05E-03 | 5.70E-04 |
| 896 | 258610.9 | 4084808 | 6.82E-03 | 1.04E-03 | 5.62E-04 |
| 897 | 258620.4 | 4084829 | 6.61E-03 | 1.01E-03 | 5.45E-04 |
| 898 | 258630 | 4084850 | 6.29E-03 | 9.58E-04 | 5.18E-04 |
| 899 | 258639.5 | 4084871 | 5.88E-03 | 8.96E-04 | 4.85E-04 |
| 900 | 258649 | 4084892 | 5.42E-03 | 8.26E-04 | 4.47E-04 |
| 901 | 258346.4 | 4084622 | 4.76E-03 | 7.24E-04 | 3.92E-04 |
| 902 | 258322 | 4084623 | 4.71E-03 | 7.17E-04 | 3.88E-04 |
| 903 | 258297.7 | 4084624 | 4.65E-03 | 7.09E-04 | 3.83E-04 |
| 904 | 258273.4 | 4084625 | 4.58E-03 | 6.98E-04 | 3.78E-04 |
| 905 | 258249 | 4084626 | 4.50E-03 | 6.86E-04 | 3.71E-04 |
| 906 | 258224.7 | 4084627 | 4.41E-03 | 6.72E-04 | 3.64E-04 |
| 907 | 258200.4 | 4084628 | 4.31E-03 | 6.57E-04 | 3.55E-04 |
| 908 | 258176 | 4084629 | 4.20E-03 | 6.40E-04 | 3.46E-04 |
| 909 | 258151.7 | 4084630 | 4.08E-03 | 6.21E-04 | 3.36E-04 |
| 910 | 258127.4 | 4084631 | 3.94E-03 | 6.01E-04 | 3.25E-04 |
| 911 | 258103 | 4084632 | 3.80E-03 | 5.79E-04 | 3.13E-04 |
| 912 | 258078.7 | 4084633 | 3.65E-03 | 5.55E-04 | 3.00E-04 |
| 913 | 258054.4 | 4084634 | 3.48E-03 | 5.31E-04 | 2.87E-04 |
| 914 | 258030 | 4084635 | 3.32E-03 | 5.05E-04 | 2.73E-04 |
| 915 | 258005.7 | 4084636 | 3.14E-03 | 4.79E-04 | 2.59E-04 |
| 916 | 257981.4 | 4084637 | 2.96E-03 | 4.51E-04 | 2.44E-04 |
| 917 | 257957.1 | 4084638 | 2.77E-03 | 4.22E-04 | 2.28E-04 |
| 918 | 257932.7 | 4084639 | 2.58E-03 | 3.93E-04 | 2.13E-04 |
| 919 | 257908.4 | 4084640 | 2.39E-03 | 3.64E-04 | 1.97E-04 |
| 920 | 257884.1 | 4084641 | 2.20E-03 | 3.36E-04 | 1.82E-04 |
| 921 | 257859.7 | 4084642 | 2.02E-03 | 3.08E-04 | 1.67E-04 |
| 922 | 257835.4 | 4084643 | 1.85E-03 | 2.81E-04 | 1.52E-04 |
| 923 | 257811.1 | 4084644 | 1.68E-03 | 2.56E-04 | 1.39E-04 |
| 924 | 257786.7 | 4084645 | 1.53E-03 | 2.33E-04 | 1.26E-04 |
| 925 | 257762.4 | 4084646 | 1.39E-03 | 2.11E-04 | 1.14E-04 |
| 926 | 257738.1 | 4084647 | 1.26E-03 | 1.92E-04 | 1.04E-04 |
| 927 | 257713.7 | 4084648 | 1.15E-03 | 1.75E-04 | 9.48E-05 |
| 928 | 257689.4 | 4084649 | 1.05E-03 | 1.60E-04 | 8.67E-05 |
| 929 | 257665.1 | 4084650 | 9.66E-04 | 1.47E-04 | 7.96E-05 |
| 930 | 257640.7 | 4084651 | 8.91E-04 | 1.36E-04 | 7.35E-05 |
| 931 | 257616.4 | 4084652 | 8.27E-04 | 1.26E-04 | 6.81E-05 |
| 932 | 257592.1 | 4084653 | 7.70E-04 | 1.17E-04 | 6.35E-05 |
| 933 | 257567.7 | 4084654 | 7.20E-04 | 1.10E-04 | 5.94E-05 |

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| 840 | 258484 | 4084722 | 7.57E-03 | 1.15E-03 | 6.24E-04 |
| 841 | 258506.6 | 4084731 | 7.62E-03 | 1.16E-03 | 6.28E-04 |
| 842 | 258539.1 | 4084761 | 7.99E-03 | 1.22E-03 | 6.59E-04 |
| 843 | 258549 | 4084783 | 8.29E-03 | 1.26E-03 | 6.84E-04 |
| 844 | 258558.9 | 4084805 | 8.44E-03 | 1.29E-03 | 6.95E-04 |
| 845 | 258568.9 | 4084827 | 8.40E-03 | 1.28E-03 | 6.93E-04 |
| 846 | 258578.8 | 4084849 | 8.17E-03 | 1.24E-03 | 6.73E-04 |
| 847 | 258588.7 | 4084871 | 7.75E-03 | 1.18E-03 | 6.39E-04 |
| 848 | 258598.6 | 4084893 | 7.19E-03 | 1.10E-03 | 5.93E-04 |
| 849 | 258348.4 | 4084672 | 6.11E-03 | 9.30E-04 | 5.03E-04 |
| 850 | 258324.1 | 4084673 | 6.08E-03 | 9.26E-04 | 5.01E-04 |
| 851 | 258299.8 | 4084674 | 6.04E-03 | 9.20E-04 | 4.98E-04 |
| 852 | 258275.4 | 4084675 | 5.98E-03 | 9.11E-04 | 4.93E-04 |
| 853 | 258251.1 | 4084676 | 5.91E-03 | 9.00E-04 | 4.87E-04 |
| 854 | 258226.8 | 4084677 | 5.82E-03 | 8.87E-04 | 4.80E-04 |
| 855 | 258202.4 | 4084678 | 5.73E-03 | 8.72E-04 | 4.72E-04 |
| 856 | 258178.1 | 4084679 | 5.61E-03 | 8.55E-04 | 4.63E-04 |
| 857 | 258153.8 | 4084680 | 5.49E-03 | 8.36E-04 | 4.52E-04 |
| 858 | 258129.4 | 4084681 | 5.35E-03 | 8.15E-04 | 4.41E-04 |
| 859 | 258105.1 | 4084682 | 5.20E-03 | 7.92E-04 | 4.28E-04 |
| 860 | 258080.8 | 4084683 | 5.03E-03 | 7.66E-04 | 4.15E-04 |
| 861 | 258056.4 | 4084684 | 4.85E-03 | 7.39E-04 | 4.00E-04 |
| 862 | 258032.1 | 4084685 | 4.65E-03 | 7.09E-04 | 3.83E-04 |
| 863 | 258007.8 | 4084686 | 4.44E-03 | 6.77E-04 | 3.66E-04 |
| 864 | 257983.4 | 4084687 | 4.22E-03 | 6.43E-04 | 3.48E-04 |
| 865 | 257959.1 | 4084688 | 3.98E-03 | 6.07E-04 | 3.28E-04 |
| 866 | 257934.8 | 4084689 | 3.74E-03 | 5.69E-04 | 3.08E-04 |
| 867 | 257910.4 | 4084690 | 3.48E-03 | 5.30E-04 | 2.87E-04 |
| 868 | 257886.1 | 4084691 | 3.22E-03 | 4.90E-04 | 2.65E-04 |
| 869 | 257861.8 | 4084692 | 2.96E-03 | 4.50E-04 | 2.44E-04 |
| 870 | 257837.4 | 4084693 | 2.69E-03 | 4.10E-04 | 2.22E-04 |
| 871 | 257813.1 | 4084694 | 2.44E-03 | 3.72E-04 | 2.01E-04 |
| 872 | 257788.8 | 4084695 | 2.20E-03 | 3.35E-04 | 1.81E-04 |
| 873 | 257764.5 | 4084696 | 1.97E-03 | 3.00E-04 | 1.63E-04 |
| 874 | 257740.1 | 4084697 | 1.77E-03 | 2.69E-04 | 1.46E-04 |
| 875 | 257715.8 | 4084698 | 1.58E-03 | 2.41E-04 | 1.30E-04 |
| 876 | 257691.5 | 4084699 | 1.42E-03 | 2.16E-04 | 1.17E-04 |
| 877 | 257667.1 | 4084700 | 1.28E-03 | 1.95E-04 | 1.06E-04 |
| 878 | 257642.8 | 4084701 | 1.16E-03 | 1.77E-04 | 9.58E-05 |
| 879 | 257618.5 | 4084702 | 1.06E-03 | 1.62E-04 | 8.74E-05 |
| 880 | 257594.1 | 4084703 | 9.75E-04 | 1.48E-04 | 8.03E-05 |
| 881 | 257569.8 | 4084704 | 9.01E-04 | 1.37E-04 | 7.43E-05 |
| 882 | 257545.5 | 4084705 | 8.38E-04 | 1.28E-04 | 6.90E-05 |
| 883 | 258368 | 4084630 | 5.00E-03 | 7.61E-04 | 4.12E-04 |
| 884 | 258389.7 | 4084638 | 5.23E-03 | 7.97E-04 | 4.31E-04 |
| 885 | 258411.4 | 4084646 | 5.46E-03 | 8.31E-04 | 4.50E-04 |
| 886 | 258433.1 | 4084654 | 5.67E-03 | 8.63E-04 | 4.67E-04 |

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| 793 | 257598.2 | 4084803 | 1.83E-03 | 2.79E-04 | 1.51E-04 |
| 794 | 257573.9 | 4084804 | 1.62E-03 | 2.46E-04 | 1.33E-04 |
| 795 | 257549.6 | 4084805 | 1.45E-03 | 2.21E-04 | 1.19E-04 |
| 796 | 258371.1 | 4084730 | 8.36E-03 | 1.27E-03 | 6.89E-04 |
| 797 | 258412.4 | 4084745 | 9.01E-03 | 1.37E-03 | 7.43E-04 |
| 798 | 258453.7 | 4084760 | 9.45E-03 | 1.44E-03 | 7.79E-04 |
| 799 | 258504.1 | 4084796 | 1.00E-02 | 1.53E-03 | 8.26E-04 |
| 800 | 258522.3 | 4084836 | 1.06E-02 | 1.62E-03 | 8.75E-04 |
| 801 | 258540.4 | 4084876 | 1.03E-02 | 1.56E-03 | 8.45E-04 |
| 802 | 258326.1 | 4084723 | 8.01E-03 | 1.22E-03 | 6.60E-04 |
| 803 | 258301.8 | 4084724 | 7.99E-03 | 1.22E-03 | 6.59E-04 |
| 804 | 258277.5 | 4084725 | 7.96E-03 | 1.21E-03 | 6.56E-04 |
| 805 | 258253.1 | 4084726 | 7.91E-03 | 1.20E-03 | 6.52E-04 |
| 806 | 258228.8 | 4084727 | 7.84E-03 | 1.19E-03 | 6.46E-04 |
| 807 | 258204.5 | 4084728 | 7.76E-03 | 1.18E-03 | 6.39E-04 |
| 808 | 258180.1 | 4084729 | 7.66E-03 | 1.17E-03 | 6.31E-04 |
| 809 | 258155.8 | 4084730 | 7.54E-03 | 1.15E-03 | 6.21E-04 |
| 810 | 258131.5 | 4084731 | 7.40E-03 | 1.13E-03 | 6.10E-04 |
| 811 | 258107.2 | 4084732 | 7.25E-03 | 1.10E-03 | 5.98E-04 |
| 812 | 258082.8 | 4084733 | 7.08E-03 | 1.08E-03 | 5.83E-04 |
| 813 | 258058.5 | 4084734 | 6.88E-03 | 1.05E-03 | 5.67E-04 |
| 814 | 258034.2 | 4084735 | 6.67E-03 | 1.02E-03 | 5.50E-04 |
| 815 | 258009.8 | 4084736 | 6.43E-03 | 9.80E-04 | 5.30E-04 |
| 816 | 257985.5 | 4084737 | 6.17E-03 | 9.40E-04 | 5.09E-04 |
| 817 | 257961.2 | 4084738 | 5.89E-03 | 8.97E-04 | 4.85E-04 |
| 818 | 257936.8 | 4084739 | 5.58E-03 | 8.50E-04 | 4.60E-04 |
| 819 | 257912.5 | 4084740 | 5.25E-03 | 8.00E-04 | 4.33E-04 |
| 820 | 257888.2 | 4084741 | 4.90E-03 | 7.47E-04 | 4.04E-04 |
| 821 | 257863.8 | 4084742 | 4.54E-03 | 6.91E-04 | 3.74E-04 |
| 822 | 257839.5 | 4084743 | 4.16E-03 | 6.34E-04 | 3.43E-04 |
| 823 | 257815.2 | 4084744 | 3.78E-03 | 5.75E-04 | 3.11E-04 |
| 824 | 257790.8 | 4084745 | 3.39E-03 | 5.17E-04 | 2.80E-04 |
| 825 | 257766.5 | 4084746 | 3.02E-03 | 4.61E-04 | 2.49E-04 |
| 826 | 257742.2 | 4084747 | 2.67E-03 | 4.07E-04 | 2.20E-04 |
| 827 | 257717.8 | 4084748 | 2.35E-03 | 3.58E-04 | 1.94E-04 |
| 828 | 257693.5 | 4084749 | 2.06E-03 | 3.14E-04 | 1.70E-04 |
| 829 | 257669.2 | 4084750 | 1.82E-03 | 2.77E-04 | 1.50E-04 |
| 830 | 257644.8 | 4084751 | 1.61E-03 | 2.45E-04 | 1.33E-04 |
| 831 | 257620.5 | 4084752 | 1.43E-03 | 2.19E-04 | 1.18E-04 |
| 832 | 257596.2 | 4084753 | 1.29E-03 | 1.97E-04 | 1.06E-04 |
| 833 | 257571.9 | 4084754 | 1.17E-03 | 1.79E-04 | 9.68E-05 |
| 834 | 257547.5 | 4084755 | 1.08E-03 | 1.64E-04 | 8.86E-05 |
| 835 | 258371 | 4084681 | 6.41E-03 | 9.77E-04 | 5.29E-04 |
| 836 | 258393.6 | 4084689 | 6.71E-03 | 1.02E-03 | 5.53E-04 |
| 837 | 258416.2 | 4084697 | 6.99E-03 | 1.06E-03 | 5.76E-04 |
| 838 | 258438.8 | 4084706 | 7.23E-03 | 1.10E-03 | 5.96E-04 |
| 839 | 258461.4 | 4084714 | 7.43E-03 | 1.13E-03 | 6.13E-04 |

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| 746 | 257722 | 4084848 | 7.46E-03 | 1.14E-03 | 6.15E-04 |
| 747 | 257697.6 | 4084849 | 6.40E-03 | 9.75E-04 | 5.27E-04 |
| 748 | 257673.3 | 4084850 | 5.36E-03 | 8.16E-04 | 4.41E-04 |
| 749 | 257649 | 4084851 | 4.39E-03 | 6.68E-04 | 3.62E-04 |
| 750 | 257624.6 | 4084852 | 3.56E-03 | 5.42E-04 | 2.93E-04 |
| 751 | 257600.3 | 4084853 | 2.91E-03 | 4.43E-04 | 2.40E-04 |
| 752 | 257576 | 4084854 | 2.43E-03 | 3.71E-04 | 2.01E-04 |
| 753 | 257551.6 | 4084855 | 2.09E-03 | 3.19E-04 | 1.73E-04 |
| 754 | 258374.2 | 4084780 | 1.13E-02 | 1.73E-03 | 9.34E-04 |
| 755 | 258395.9 | 4084788 | 1.18E-02 | 1.80E-03 | 9.73E-04 |
| 756 | 258417.6 | 4084796 | 1.22E-02 | 1.85E-03 | 1.00E-03 |
| 757 | 258439.3 | 4084804 | 1.24E-02 | 1.88E-03 | 1.02E-03 |
| 758 | 258470.5 | 4084833 | 1.32E-02 | 2.01E-03 | 1.09E-03 |
| 759 | 258480 | 4084854 | 1.38E-02 | 2.11E-03 | 1.14E-03 |
| 760 | 258489.6 | 4084876 | 1.39E-02 | 2.12E-03 | 1.15E-03 |
| 761 | 258499.1 | 4084897 | 1.36E-02 | 2.07E-03 | 1.12E-03 |
| 762 | 258352.5 | 4084772 | 1.08E-02 | 1.65E-03 | 8.91E-04 |
| 763 | 258328.2 | 4084773 | 1.09E-02 | 1.66E-03 | 8.97E-04 |
| 764 | 258303.9 | 4084774 | 1.09E-02 | 1.66E-03 | 9.01E-04 |
| 765 | 258279.5 | 4084775 | 1.09E-02 | 1.67E-03 | 9.02E-04 |
| 766 | 258255.2 | 4084776 | 1.09E-02 | 1.66E-03 | 9.01E-04 |
| 767 | 258230.9 | 4084777 | 1.09E-02 | 1.66E-03 | 8.98E-04 |
| 768 | 258206.5 | 4084778 | 1.08E-02 | 1.65E-03 | 8.93E-04 |
| 769 | 258182.2 | 4084779 | 1.08E-02 | 1.64E-03 | 8.87E-04 |
| 770 | 258157.9 | 4084780 | 1.07E-02 | 1.62E-03 | 8.79E-04 |
| 771 | 258133.5 | 4084781 | 1.05E-02 | 1.61E-03 | 8.69E-04 |
| 772 | 258109.2 | 4084782 | 1.04E-02 | 1.59E-03 | 8.58E-04 |
| 773 | 258084.9 | 4084783 | 1.02E-02 | 1.56E-03 | 8.44E-04 |
| 774 | 258060.5 | 4084784 | 1.00E-02 | 1.53E-03 | 8.28E-04 |
| 775 | 258036.2 | 4084785 | 9.83E-03 | 1.50E-03 | 8.10E-04 |
| 776 | 258011.9 | 4084786 | 9.58E-03 | 1.46E-03 | 7.90E-04 |
| 777 | 257987.5 | 4084787 | 9.30E-03 | 1.42E-03 | 7.66E-04 |
| 778 | 257963.2 | 4084788 | 8.98E-03 | 1.37E-03 | 7.40E-04 |
| 779 | 257938.9 | 4084789 | 8.62E-03 | 1.31E-03 | 7.11E-04 |
| 780 | 257914.6 | 4084790 | 8.23E-03 | 1.25E-03 | 6.78E-04 |
| 781 | 257890.2 | 4084791 | 7.79E-03 | 1.19E-03 | 6.42E-04 |
| 782 | 257865.9 | 4084792 | 7.31E-03 | 1.11E-03 | 6.03E-04 |
| 783 | 257841.6 | 4084793 | 6.80E-03 | 1.04E-03 | 5.61E-04 |
| 784 | 257817.2 | 4084794 | 6.25E-03 | 9.52E-04 | 5.15E-04 |
| 785 | 257792.9 | 4084795 | 5.67E-03 | 8.64E-04 | 4.68E-04 |
| 786 | 257768.6 | 4084796 | 5.08E-03 | 7.74E-04 | 4.19E-04 |
| 787 | 257744.2 | 4084797 | 4.48E-03 | 6.82E-04 | 3.69E-04 |
| 788 | 257719.9 | 4084798 | 3.90E-03 | 5.94E-04 | 3.21E-04 |
| 789 | 257695.6 | 4084799 | 3.35E-03 | 5.10E-04 | 2.76E-04 |
| 790 | 257671.2 | 4084800 | 2.86E-03 | 4.36E-04 | 2.36E-04 |
| 791 | 257646.9 | 4084801 | 2.44E-03 | 3.72E-04 | 2.01E-04 |
| 792 | 257622.6 | 4084802 | 2.10E-03 | 3.20E-04 | 1.73E-04 |

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| 699 | 257990.6 | 4084862 | 1.91E-02 | 2.91E-03 | 1.58E-03 |
| 700 | 257966.3 | 4084863 | 1.88E-02 | 2.86E-03 | 1.55E-03 |
| 701 | 257942 | 4084864 | 1.84E-02 | 2.81E-03 | 1.52E-03 |
| 702 | 257917.6 | 4084865 | 1.80E-02 | 2.74E-03 | 1.48E-03 |
| 703 | 257893.3 | 4084866 | 1.75E-02 | 2.66E-03 | 1.44E-03 |
| 704 | 257869 | 4084867 | 1.69E-02 | 2.57E-03 | 1.39E-03 |
| 705 | 257844.6 | 4084868 | 1.62E-02 | 2.47E-03 | 1.33E-03 |
| 706 | 257820.3 | 4084869 | 1.54E-02 | 2.35E-03 | 1.27E-03 |
| 707 | 257796 | 4084870 | 1.45E-02 | 2.21E-03 | 1.19E-03 |
| 708 | 257771.6 | 4084871 | 1.35E-02 | 2.05E-03 | 1.11E-03 |
| 709 | 257747.3 | 4084872 | 1.23E-02 | 1.87E-03 | 1.01E-03 |
| 710 | 257723 | 4084873 | 1.10E-02 | 1.68E-03 | 9.06E-04 |
| 711 | 257698.6 | 4084874 | 9.58E-03 | 1.46E-03 | 7.89E-04 |
| 712 | 257674.3 | 4084875 | 8.07E-03 | 1.23E-03 | 6.65E-04 |
| 713 | 257650 | 4084876 | 6.55E-03 | 9.97E-04 | 5.40E-04 |
| 714 | 257625.6 | 4084877 | 5.14E-03 | 7.83E-04 | 4.24E-04 |
| 715 | 257601.3 | 4084878 | 3.99E-03 | 6.08E-04 | 3.29E-04 |
| 716 | 257577 | 4084879 | 3.17E-03 | 4.84E-04 | 2.62E-04 |
| 717 | 257552.7 | 4084880 | 2.63E-03 | 4.01E-04 | 2.17E-04 |
| 718 | 258372.7 | 4084829 | 1.62E-02 | 2.46E-03 | 1.33E-03 |
| 719 | 258408.8 | 4084842 | 1.70E-02 | 2.60E-03 | 1.40E-03 |
| 720 | 258434.8 | 4084866 | 1.84E-02 | 2.80E-03 | 1.52E-03 |
| 721 | 258330.2 | 4084823 | 1.57E-02 | 2.39E-03 | 1.29E-03 |
| 722 | 258305.9 | 4084824 | 1.58E-02 | 2.41E-03 | 1.31E-03 |
| 723 | 258281.6 | 4084825 | 1.59E-02 | 2.43E-03 | 1.31E-03 |
| 724 | 258257.3 | 4084826 | 1.60E-02 | 2.44E-03 | 1.32E-03 |
| 725 | 258232.9 | 4084827 | 1.60E-02 | 2.44E-03 | 1.32E-03 |
| 726 | 258208.6 | 4084828 | 1.60E-02 | 2.44E-03 | 1.32E-03 |
| 727 | 258184.3 | 4084829 | 1.60E-02 | 2.43E-03 | 1.32E-03 |
| 728 | 258159.9 | 4084830 | 1.59E-02 | 2.43E-03 | 1.31E-03 |
| 729 | 258135.6 | 4084831 | 1.58E-02 | 2.41E-03 | 1.31E-03 |
| 730 | 258111.3 | 4084832 | 1.57E-02 | 2.40E-03 | 1.30E-03 |
| 731 | 258086.9 | 4084833 | 1.56E-02 | 2.38E-03 | 1.29E-03 |
| 732 | 258062.6 | 4084834 | 1.54E-02 | 2.35E-03 | 1.27E-03 |
| 733 | 258038.3 | 4084835 | 1.52E-02 | 2.32E-03 | 1.25E-03 |
| 734 | 258013.9 | 4084836 | 1.50E-02 | 2.28E-03 | 1.23E-03 |
| 735 | 257989.6 | 4084837 | 1.47E-02 | 2.24E-03 | 1.21E-03 |
| 736 | 257965.3 | 4084838 | 1.44E-02 | 2.19E-03 | 1.18E-03 |
| 737 | 257940.9 | 4084839 | 1.40E-02 | 2.13E-03 | 1.15E-03 |
| 738 | 257916.6 | 4084840 | 1.36E-02 | 2.06E-03 | 1.12E-03 |
| 739 | 257892.3 | 4084841 | 1.31E-02 | 1.99E-03 | 1.08E-03 |
| 740 | 257867.9 | 4084842 | 1.25E-02 | 1.90E-03 | 1.03E-03 |
| 741 | 257843.6 | 4084843 | 1.18E-02 | 1.81E-03 | 9.77E-04 |
| 742 | 257819.3 | 4084844 | 1.11E-02 | 1.70E-03 | 9.17E-04 |
| 743 | 257794.9 | 4084845 | 1.03E-02 | 1.57E-03 | 8.51E-04 |
| 744 | 257770.6 | 4084846 | 9.44E-03 | 1.44E-03 | 7.78E-04 |
| 745 | 257746.3 | 4084847 | 8.48E-03 | 1.29E-03 | 6.99E-04 |

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| 652 | 258283.6 | 4084875 | 2.64E-02 | 4.03E-03 | 2.18E-03 |
| 653 | 258259.3 | 4084876 | 2.67E-02 | 4.06E-03 | 2.20E-03 |
| 654 | 258235 | 4084877 | 2.68E-02 | 4.08E-03 | 2.21E-03 |
| 655 | 258210.6 | 4084878 | 2.69E-02 | 4.10E-03 | 2.22E-03 |
| 656 | 258186.3 | 4084879 | 2.69E-02 | 4.10E-03 | 2.22E-03 |
| 657 | 258162 | 4084880 | 2.69E-02 | 4.10E-03 | 2.22E-03 |
| 658 | 258137.6 | 4084881 | 2.69E-02 | 4.10E-03 | 2.22E-03 |
| 659 | 258113.3 | 4084882 | 2.68E-02 | 4.09E-03 | 2.21E-03 |
| 660 | 258089 | 4084883 | 2.68E-02 | 4.08E-03 | 2.21E-03 |
| 661 | 258064.6 | 4084884 | 2.66E-02 | 4.06E-03 | 2.19E-03 |
| 662 | 258040.3 | 4084885 | 2.64E-02 | 4.03E-03 | 2.18E-03 |
| 663 | 258016 | 4084886 | 2.62E-02 | 4.00E-03 | 2.16E-03 |
| 664 | 257991.7 | 4084887 | 2.60E-02 | 3.96E-03 | 2.14E-03 |
| 665 | 257967.3 | 4084888 | 2.57E-02 | 3.91E-03 | 2.12E-03 |
| 666 | 257943 | 4084889 | 2.53E-02 | 3.85E-03 | 2.08E-03 |
| 667 | 257918.7 | 4084890 | 2.49E-02 | 3.79E-03 | 2.05E-03 |
| 668 | 257894.3 | 4084891 | 2.43E-02 | 3.71E-03 | 2.01E-03 |
| 669 | 257870 | 4084892 | 2.38E-02 | 3.62E-03 | 1.96E-03 |
| 670 | 257845.7 | 4084893 | 2.30E-02 | 3.51E-03 | 1.90E-03 |
| 671 | 257821.3 | 4084894 | 2.22E-02 | 3.38E-03 | 1.83E-03 |
| 672 | 257797 | 4084895 | 2.12E-02 | 3.23E-03 | 1.75E-03 |
| 673 | 257772.7 | 4084896 | 2.01E-02 | 3.06E-03 | 1.65E-03 |
| 674 | 257748.3 | 4084897 | 1.87E-02 | 2.85E-03 | 1.54E-03 |
| 675 | 257724 | 4084898 | 1.71E-02 | 2.61E-03 | 1.41E-03 |
| 676 | 257699.7 | 4084899 | 1.53E-02 | 2.33E-03 | 1.26E-03 |
| 677 | 257675.3 | 4084900 | 1.32E-02 | 2.01E-03 | 1.09E-03 |
| 678 | 257651 | 4084901 | 1.09E-02 | 1.66E-03 | 8.97E-04 |
| 679 | 257626.7 | 4084902 | 8.42E-03 | 1.28E-03 | 6.94E-04 |
| 680 | 257602.3 | 4084903 | 6.15E-03 | 9.37E-04 | 5.07E-04 |
| 681 | 257578 | 4084904 | 4.48E-03 | 6.82E-04 | 3.69E-04 |
| 682 | 257553.7 | 4084905 | 3.49E-03 | 5.31E-04 | 2.88E-04 |
| 683 | 258373.7 | 4084854 | 2.01E-02 | 3.07E-03 | 1.66E-03 |
| 684 | 258417.8 | 4084885 | 2.28E-02 | 3.47E-03 | 1.88E-03 |
| 685 | 258331.3 | 4084848 | 1.96E-02 | 2.99E-03 | 1.62E-03 |
| 686 | 258306.9 | 4084849 | 1.99E-02 | 3.03E-03 | 1.64E-03 |
| 687 | 258282.6 | 4084850 | 2.00E-02 | 3.05E-03 | 1.65E-03 |
| 688 | 258258.3 | 4084851 | 2.02E-02 | 3.07E-03 | 1.66E-03 |
| 689 | 258233.9 | 4084852 | 2.02E-02 | 3.08E-03 | 1.67E-03 |
| 690 | 258209.6 | 4084853 | 2.03E-02 | 3.09E-03 | 1.67E-03 |
| 691 | 258185.3 | 4084854 | 2.03E-02 | 3.09E-03 | 1.67E-03 |
| 692 | 258160.9 | 4084855 | 2.02E-02 | 3.08E-03 | 1.67E-03 |
| 693 | 258136.6 | 4084856 | 2.02E-02 | 3.07E-03 | 1.66E-03 |
| 694 | 258112.3 | 4084857 | 2.01E-02 | 3.06E-03 | 1.65E-03 |
| 695 | 258088 | 4084858 | 2.00E-02 | 3.04E-03 | 1.64E-03 |
| 696 | 258063.6 | 4084859 | 1.98E-02 | 3.02E-03 | 1.63E-03 |
| 697 | 258039.3 | 4084860 | 1.96E-02 | 2.99E-03 | 1.62E-03 |
| 698 | 258015 | 4084861 | 1.94E-02 | 2.95E-03 | 1.60E-03 |

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| 605 | 258453.3 | 4086608 | 3.12E-04 | 4.76E-05 | 2.57E-05 |
| 606 | 259863.8 | 4085076 | 3.03E-04 | 4.62E-05 | 2.50E-05 |
| 607 | 259863.1 | 4085052 | 3.07E-04 | 4.68E-05 | 2.53E-05 |
| 608 | 259862.4 | 4085027 | 3.12E-04 | 4.75E-05 | 2.57E-05 |
| 609 | 259861.7 | 4085002 | 3.18E-04 | 4.85E-05 | 2.62E-05 |
| 610 | 259860.9 | 4084977 | 3.26E-04 | 4.96E-05 | 2.68E-05 |
| 611 | 259860.2 | 4084953 | 3.34E-04 | 5.09E-05 | 2.76E-05 |
| 612 | 259859.5 | 4084928 | 3.44E-04 | 5.24E-05 | 2.84E-05 |
| 613 | 259858.8 | 4084903 | 3.54E-04 | 5.40E-05 | 2.92E-05 |
| 614 | 259858 | 4084878 | 3.64E-04 | 5.55E-05 | 3.00E-05 |
| 615 | 258357.7 | 4084897 | 3.53E-02 | 5.38E-03 | 2.91E-03 |
| 616 | 258333.3 | 4084898 | 3.70E-02 | 5.64E-03 | 3.05E-03 |
| 617 | 258309 | 4084899 | 3.79E-02 | 5.77E-03 | 3.12E-03 |
| 618 | 258284.7 | 4084900 | 3.84E-02 | 5.85E-03 | 3.17E-03 |
| 619 | 258260.3 | 4084901 | 3.88E-02 | 5.91E-03 | 3.20E-03 |
| 620 | 258236 | 4084902 | 3.91E-02 | 5.96E-03 | 3.22E-03 |
| 621 | 258211.7 | 4084903 | 3.93E-02 | 5.98E-03 | 3.24E-03 |
| 622 | 258187.3 | 4084904 | 3.93E-02 | 5.99E-03 | 3.24E-03 |
| 623 | 258163 | 4084905 | 3.94E-02 | 6.00E-03 | 3.24E-03 |
| 624 | 258138.7 | 4084906 | 3.93E-02 | 5.99E-03 | 3.24E-03 |
| 625 | 258114.3 | 4084907 | 3.93E-02 | 5.98E-03 | 3.24E-03 |
| 626 | 258090 | 4084908 | 3.92E-02 | 5.97E-03 | 3.23E-03 |
| 627 | 258065.7 | 4084909 | 3.90E-02 | 5.95E-03 | 3.22E-03 |
| 628 | 258041.3 | 4084910 | 3.89E-02 | 5.92E-03 | 3.20E-03 |
| 629 | 258017 | 4084911 | 3.87E-02 | 5.89E-03 | 3.19E-03 |
| 630 | 257992.7 | 4084912 | 3.84E-02 | 5.85E-03 | 3.17E-03 |
| 631 | 257968.3 | 4084913 | 3.81E-02 | 5.81E-03 | 3.14E-03 |
| 632 | 257944 | 4084914 | 3.78E-02 | 5.76E-03 | 3.12E-03 |
| 633 | 257919.7 | 4084915 | 3.74E-02 | 5.69E-03 | 3.08E-03 |
| 634 | 257895.4 | 4084916 | 3.69E-02 | 5.62E-03 | 3.04E-03 |
| 635 | 257871 | 4084917 | 3.63E-02 | 5.53E-03 | 2.99E-03 |
| 636 | 257846.7 | 4084918 | 3.56E-02 | 5.42E-03 | 2.93E-03 |
| 637 | 257822.4 | 4084919 | 3.47E-02 | 5.29E-03 | 2.86E-03 |
| 638 | 257798 | 4084920 | 3.37E-02 | 5.13E-03 | 2.78E-03 |
| 639 | 257773.7 | 4084921 | 3.24E-02 | 4.94E-03 | 2.67E-03 |
| 640 | 257749.4 | 4084922 | 3.09E-02 | 4.71E-03 | 2.55E-03 |
| 641 | 257725 | 4084923 | 2.91E-02 | 4.43E-03 | 2.40E-03 |
| 642 | 257700.7 | 4084924 | 2.69E-02 | 4.10E-03 | 2.22E-03 |
| 643 | 257676.4 | 4084925 | 2.42E-02 | 3.68E-03 | 1.99E-03 |
| 644 | 257652 | 4084926 | 2.08E-02 | 3.17E-03 | 1.72E-03 |
| 645 | 257627.7 | 4084927 | 1.67E-02 | 2.55E-03 | 1.38E-03 |
| 646 | 257603.4 | 4084928 | 1.20E-02 | 1.82E-03 | 9.87E-04 |
| 647 | 257579 | 4084929 | 7.49E-03 | 1.14E-03 | 6.17E-04 |
| 648 | 257554.7 | 4084930 | 5.06E-03 | 7.71E-04 | 4.17E-04 |
| 649 | 258374.7 | 4084879 | 2.62E-02 | 4.00E-03 | 2.16E-03 |
| 650 | 258332.3 | 4084873 | 2.57E-02 | 3.92E-03 | 2.12E-03 |
| 651 | 258308 | 4084874 | 2.62E-02 | 3.98E-03 | 2.16E-03 |

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| 558 | 259489.5 | 4086072 | 1.92E-04 | 2.93E-05 | 1.59E-05 |
| 559 | 259480.8 | 4086095 | 1.91E-04 | 2.90E-05 | 1.57E-05 |
| 560 | 259472.1 | 4086118 | 1.89E-04 | 2.88E-05 | 1.56E-05 |
| 561 | 259440.9 | 4086152 | 1.89E-04 | 2.88E-05 | 1.56E-05 |
| 562 | 259418.5 | 4086162 | 1.91E-04 | 2.91E-05 | 1.57E-05 |
| 563 | 259396 | 4086172 | 1.93E-04 | 2.94E-05 | 1.59E-05 |
| 564 | 259373.6 | 4086183 | 1.95E-04 | 2.97E-05 | 1.61E-05 |
| 565 | 259351.1 | 4086193 | 1.97E-04 | 3.00E-05 | 1.62E-05 |
| 566 | 259328.7 | 4086203 | 1.99E-04 | 3.03E-05 | 1.64E-05 |
| 567 | 259306.2 | 4086214 | 2.01E-04 | 3.06E-05 | 1.66E-05 |
| 568 | 259283.8 | 4086224 | 2.03E-04 | 3.09E-05 | 1.67E-05 |
| 569 | 259261.3 | 4086235 | 2.05E-04 | 3.12E-05 | 1.69E-05 |
| 570 | 259238.9 | 4086245 | 2.07E-04 | 3.16E-05 | 1.71E-05 |
| 571 | 259216.4 | 4086255 | 2.10E-04 | 3.20E-05 | 1.73E-05 |
| 572 | 259194 | 4086266 | 2.13E-04 | 3.24E-05 | 1.75E-05 |
| 573 | 259171.6 | 4086276 | 2.16E-04 | 3.28E-05 | 1.78E-05 |
| 574 | 259149.1 | 4086286 | 2.19E-04 | 3.33E-05 | 1.80E-05 |
| 575 | 259126.7 | 4086297 | 2.22E-04 | 3.39E-05 | 1.83E-05 |
| 576 | 259104.2 | 4086307 | 2.26E-04 | 3.45E-05 | 1.87E-05 |
| 577 | 259081.8 | 4086318 | 2.31E-04 | 3.52E-05 | 1.90E-05 |
| 578 | 259059.3 | 4086328 | 2.36E-04 | 3.59E-05 | 1.94E-05 |
| 579 | 259036.9 | 4086338 | 2.41E-04 | 3.67E-05 | 1.98E-05 |
| 580 | 259014.4 | 4086349 | 2.46E-04 | 3.75E-05 | 2.03E-05 |
| 581 | 258992 | 4086359 | 2.51E-04 | 3.82E-05 | 2.07E-05 |
| 582 | 258969.5 | 4086370 | 2.56E-04 | 3.90E-05 | 2.11E-05 |
| 583 | 258947.1 | 4086380 | 2.61E-04 | 3.97E-05 | 2.15E-05 |
| 584 | 258924.6 | 4086390 | 2.64E-04 | 4.03E-05 | 2.18E-05 |
| 585 | 258902.2 | 4086401 | 2.68E-04 | 4.08E-05 | 2.21E-05 |
| 586 | 258879.8 | 4086411 | 2.70E-04 | 4.12E-05 | 2.23E-05 |
| 587 | 258857.3 | 4086421 | 2.72E-04 | 4.15E-05 | 2.25E-05 |
| 588 | 258834.9 | 4086432 | 2.74E-04 | 4.17E-05 | 2.26E-05 |
| 589 | 258812.4 | 4086442 | 2.75E-04 | 4.20E-05 | 2.27E-05 |
| 590 | 258790 | 4086453 | 2.77E-04 | 4.21E-05 | 2.28E-05 |
| 591 | 258767.5 | 4086463 | 2.78E-04 | 4.24E-05 | 2.29E-05 |
| 592 | 258745.1 | 4086473 | 2.79E-04 | 4.26E-05 | 2.30E-05 |
| 593 | 258722.6 | 4086484 | 2.81E-04 | 4.28E-05 | 2.31E-05 |
| 594 | 258700.2 | 4086494 | 2.82E-04 | 4.30E-05 | 2.33E-05 |
| 595 | 258677.7 | 4086504 | 2.84E-04 | 4.33E-05 | 2.34E-05 |
| 596 | 258655.3 | 4086515 | 2.87E-04 | 4.37E-05 | 2.36E-05 |
| 597 | 258632.8 | 4086525 | 2.89E-04 | 4.40E-05 | 2.38E-05 |
| 598 | 258610.4 | 4086536 | 2.91E-04 | 4.44E-05 | 2.40E-05 |
| 599 | 258588 | 4086546 | 2.94E-04 | 4.48E-05 | 2.43E-05 |
| 600 | 258565.5 | 4086556 | 2.97E-04 | 4.53E-05 | 2.45E-05 |
| 601 | 258543.1 | 4086567 | 3.00E-04 | 4.58E-05 | 2.48E-05 |
| 602 | 258520.6 | 4086577 | 3.03E-04 | 4.62E-05 | 2.50E-05 |
| 603 | 258498.2 | 4086588 | 3.07E-04 | 4.67E-05 | 2.53E-05 |
| 604 | 258475.7 | 4086598 | 3.10E-04 | 4.72E-05 | 2.55E-05 |

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| 511 | 259661 | 4084983 | 3.94E-04 | 6.00E-05 | 3.25E-05 |
| 512 | 259660.3 | 4084958 | 4.06E-04 | 6.18E-05 | 3.34E-05 |
| 513 | 259659.6 | 4084934 | 4.19E-04 | 6.38E-05 | 3.45E-05 |
| 514 | 259658.9 | 4084909 | 4.32E-04 | 6.58E-05 | 3.56E-05 |
| 515 | 259658.1 | 4084884 | 4.45E-04 | 6.78E-05 | 3.67E-05 |
| 516 | 259855.1 | 4085100 | 3.03E-04 | 4.62E-05 | 2.50E-05 |
| 517 | 259846.4 | 4085123 | 3.03E-04 | 4.61E-05 | 2.50E-05 |
| 518 | 259837.7 | 4085146 | 3.03E-04 | 4.61E-05 | 2.50E-05 |
| 519 | 259829 | 4085169 | 3.02E-04 | 4.61E-05 | 2.49E-05 |
| 520 | 259820.3 | 4085192 | 3.02E-04 | 4.60E-05 | 2.49E-05 |
| 521 | 259811.6 | 4085215 | 3.01E-04 | 4.58E-05 | 2.48E-05 |
| 522 | 259802.9 | 4085238 | 2.98E-04 | 4.54E-05 | 2.46E-05 |
| 523 | 259794.2 | 4085262 | 2.95E-04 | 4.50E-05 | 2.43E-05 |
| 524 | 259785.5 | 4085285 | 2.91E-04 | 4.44E-05 | 2.40E-05 |
| 525 | 259776.8 | 4085308 | 2.87E-04 | 4.37E-05 | 2.36E-05 |
| 526 | 259768.1 | 4085331 | 2.82E-04 | 4.29E-05 | 2.32E-05 |
| 527 | 259759.4 | 4085354 | 2.77E-04 | 4.21E-05 | 2.28E-05 |
| 528 | 259750.6 | 4085377 | 2.71E-04 | 4.14E-05 | 2.24E-05 |
| 529 | 259741.9 | 4085400 | 2.66E-04 | 4.06E-05 | 2.20E-05 |
| 530 | 259733.2 | 4085424 | 2.62E-04 | 3.98E-05 | 2.16E-05 |
| 531 | 259724.5 | 4085447 | 2.57E-04 | 3.91E-05 | 2.12E-05 |
| 532 | 259715.8 | 4085470 | 2.53E-04 | 3.85E-05 | 2.08E-05 |
| 533 | 259707.1 | 4085493 | 2.49E-04 | 3.79E-05 | 2.05E-05 |
| 534 | 259698.4 | 4085516 | 2.45E-04 | 3.73E-05 | 2.02E-05 |
| 535 | 259689.7 | 4085539 | 2.42E-04 | 3.68E-05 | 1.99E-05 |
| 536 | 259681 | 4085562 | 2.39E-04 | 3.64E-05 | 1.97E-05 |
| 537 | 259672.3 | 4085586 | 2.37E-04 | 3.60E-05 | 1.95E-05 |
| 538 | 259663.6 | 4085609 | 2.34E-04 | 3.57E-05 | 1.93E-05 |
| 539 | 259654.9 | 4085632 | 2.32E-04 | 3.54E-05 | 1.92E-05 |
| 540 | 259646.2 | 4085655 | 2.31E-04 | 3.51E-05 | 1.90E-05 |
| 541 | 259637.5 | 4085678 | 2.29E-04 | 3.49E-05 | 1.89E-05 |
| 542 | 259628.8 | 4085701 | 2.27E-04 | 3.47E-05 | 1.87E-05 |
| 543 | 259620.1 | 4085724 | 2.26E-04 | 3.44E-05 | 1.86E-05 |
| 544 | 259611.4 | 4085748 | 2.24E-04 | 3.41E-05 | 1.84E-05 |
| 545 | 259602.6 | 4085771 | 2.22E-04 | 3.39E-05 | 1.83E-05 |
| 546 | 259593.9 | 4085794 | 2.21E-04 | 3.36E-05 | 1.82E-05 |
| 547 | 259585.2 | 4085817 | 2.19E-04 | 3.33E-05 | 1.80E-05 |
| 548 | 259576.5 | 4085840 | 2.17E-04 | 3.31E-05 | 1.79E-05 |
| 549 | 259567.8 | 4085863 | 2.15E-04 | 3.28E-05 | 1.77E-05 |
| 550 | 259559.1 | 4085887 | 2.13E-04 | 3.24E-05 | 1.75E-05 |
| 551 | 259550.4 | 4085910 | 2.10E-04 | 3.20E-05 | 1.73E-05 |
| 552 | 259541.7 | 4085933 | 2.07E-04 | 3.16E-05 | 1.71E-05 |
| 553 | 259533 | 4085956 | 2.05E-04 | 3.12E-05 | 1.69E-05 |
| 554 | 259524.3 | 4085979 | 2.02E-04 | 3.07E-05 | 1.66E-05 |
| 555 | 259515.6 | 4086002 | 1.99E-04 | 3.03E-05 | 1.64E-05 |
| 556 | 259506.9 | 4086025 | 1.97E-04 | 3.00E-05 | 1.62E-05 |
| 557 | 259498.2 | 4086049 | 1.94E-04 | 2.96E-05 | 1.60E-05 |

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| 464 | 259351.5 | 4085913 | 2.32E-04 | 3.54E-05 | 1.92E-05 |
| 465 | 259342.9 | 4085936 | 2.29E-04 | 3.49E-05 | 1.89E-05 |
| 466 | 259334.2 | 4085959 | 2.27E-04 | 3.45E-05 | 1.87E-05 |
| 467 | 259325.5 | 4085982 | 2.25E-04 | 3.42E-05 | 1.85E-05 |
| 468 | 259294.5 | 4086015 | 2.25E-04 | 3.42E-05 | 1.85E-05 |
| 469 | 259272.1 | 4086026 | 2.27E-04 | 3.46E-05 | 1.87E-05 |
| 470 | 259249.7 | 4086036 | 2.30E-04 | 3.50E-05 | 1.89E-05 |
| 471 | 259227.3 | 4086046 | 2.32E-04 | 3.54E-05 | 1.91E-05 |
| 472 | 259205 | 4086057 | 2.34E-04 | 3.57E-05 | 1.93E-05 |
| 473 | 259182.6 | 4086067 | 2.37E-04 | 3.61E-05 | 1.95E-05 |
| 474 | 259160.2 | 4086077 | 2.39E-04 | 3.64E-05 | 1.97E-05 |
| 475 | 259137.9 | 4086088 | 2.42E-04 | 3.69E-05 | 1.99E-05 |
| 476 | 259115.5 | 4086098 | 2.45E-04 | 3.73E-05 | 2.02E-05 |
| 477 | 259093.1 | 4086108 | 2.48E-04 | 3.78E-05 | 2.04E-05 |
| 478 | 259070.7 | 4086119 | 2.51E-04 | 3.83E-05 | 2.07E-05 |
| 479 | 259048.4 | 4086129 | 2.55E-04 | 3.89E-05 | 2.10E-05 |
| 480 | 259026 | 4086139 | 2.60E-04 | 3.96E-05 | 2.14E-05 |
| 481 | 259003.6 | 4086150 | 2.65E-04 | 4.03E-05 | 2.18E-05 |
| 482 | 258981.3 | 4086160 | 2.70E-04 | 4.11E-05 | 2.23E-05 |
| 483 | 258958.9 | 4086171 | 2.76E-04 | 4.21E-05 | 2.28E-05 |
| 484 | 258936.5 | 4086181 | 2.82E-04 | 4.30E-05 | 2.33E-05 |
| 485 | 258914.2 | 4086191 | 2.89E-04 | 4.40E-05 | 2.38E-05 |
| 486 | 258891.8 | 4086202 | 2.95E-04 | 4.50E-05 | 2.43E-05 |
| 487 | 258869.4 | 4086212 | 3.01E-04 | 4.59E-05 | 2.48E-05 |
| 488 | 258847 | 4086222 | 3.07E-04 | 4.67E-05 | 2.53E-05 |
| 489 | 258824.7 | 4086233 | 3.11E-04 | 4.74E-05 | 2.57E-05 |
| 490 | 258802.3 | 4086243 | 3.15E-04 | 4.80E-05 | 2.60E-05 |
| 491 | 258779.9 | 4086253 | 3.18E-04 | 4.84E-05 | 2.62E-05 |
| 492 | 258757.6 | 4086264 | 3.20E-04 | 4.88E-05 | 2.64E-05 |
| 493 | 258735.2 | 4086274 | 3.23E-04 | 4.91E-05 | 2.66E-05 |
| 494 | 258712.8 | 4086284 | 3.25E-04 | 4.94E-05 | 2.68E-05 |
| 495 | 258690.4 | 4086295 | 3.26E-04 | 4.97E-05 | 2.69E-05 |
| 496 | 258668.1 | 4086305 | 3.29E-04 | 5.01E-05 | 2.71E-05 |
| 497 | 258645.7 | 4086315 | 3.31E-04 | 5.04E-05 | 2.73E-05 |
| 498 | 258623.3 | 4086326 | 3.34E-04 | 5.09E-05 | 2.75E-05 |
| 499 | 258601 | 4086336 | 3.37E-04 | 5.13E-05 | 2.78E-05 |
| 500 | 258578.6 | 4086346 | 3.41E-04 | 5.19E-05 | 2.81E-05 |
| 501 | 258556.2 | 4086357 | 3.44E-04 | 5.24E-05 | 2.84E-05 |
| 502 | 258533.8 | 4086367 | 3.48E-04 | 5.31E-05 | 2.87E-05 |
| 503 | 258511.5 | 4086377 | 3.52E-04 | 5.37E-05 | 2.90E-05 |
| 504 | 258489.1 | 4086388 | 3.57E-04 | 5.43E-05 | 2.94E-05 |
| 505 | 258466.7 | 4086398 | 3.61E-04 | 5.50E-05 | 2.98E-05 |
| 506 | 258444.4 | 4086408 | 3.65E-04 | 5.57E-05 | 3.01E-05 |
| 507 | 259663.9 | 4085082 | 3.63E-04 | 5.54E-05 | 3.00E-05 |
| 508 | 259663.2 | 4085057 | 3.69E-04 | 5.62E-05 | 3.04E-05 |
| 509 | 259662.5 | 4085033 | 3.76E-04 | 5.73E-05 | 3.10E-05 |
| 510 | 259661.7 | 4085008 | 3.84E-04 | 5.85E-05 | 3.17E-05 |

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| 417 | 258479.9 | 4086188 | 4.29E-04 | 6.53E-05 | 3.53E-05 |
| 418 | 258457.7 | 4086198 | 4.34E-04 | 6.62E-05 | 3.58E-05 |
| 419 | 258435.4 | 4086209 | 4.41E-04 | 6.73E-05 | 3.64E-05 |
| 420 | 259464 | 4085088 | 4.51E-04 | 6.87E-05 | 3.72E-05 |
| 421 | 259463.3 | 4085063 | 4.60E-04 | 7.00E-05 | 3.79E-05 |
| 422 | 259462.6 | 4085039 | 4.71E-04 | 7.17E-05 | 3.88E-05 |
| 423 | 259461.8 | 4085014 | 4.83E-04 | 7.36E-05 | 3.98E-05 |
| 424 | 259461.1 | 4084989 | 4.98E-04 | 7.59E-05 | 4.11E-05 |
| 425 | 259460.4 | 4084964 | 5.15E-04 | 7.84E-05 | 4.24E-05 |
| 426 | 259459.7 | 4084939 | 5.33E-04 | 8.12E-05 | 4.39E-05 |
| 427 | 259458.9 | 4084915 | 5.51E-04 | 8.40E-05 | 4.55E-05 |
| 428 | 259458.2 | 4084890 | 5.70E-04 | 8.68E-05 | 4.70E-05 |
| 429 | 259655.2 | 4085105 | 3.62E-04 | 5.52E-05 | 2.99E-05 |
| 430 | 259646.6 | 4085128 | 3.62E-04 | 5.51E-05 | 2.98E-05 |
| 431 | 259637.9 | 4085151 | 3.61E-04 | 5.50E-05 | 2.98E-05 |
| 432 | 259629.2 | 4085174 | 3.59E-04 | 5.47E-05 | 2.96E-05 |
| 433 | 259620.5 | 4085198 | 3.57E-04 | 5.44E-05 | 2.94E-05 |
| 434 | 259611.8 | 4085221 | 3.54E-04 | 5.39E-05 | 2.91E-05 |
| 435 | 259603.2 | 4085244 | 3.49E-04 | 5.32E-05 | 2.88E-05 |
| 436 | 259594.5 | 4085267 | 3.44E-04 | 5.24E-05 | 2.84E-05 |
| 437 | 259585.8 | 4085290 | 3.38E-04 | 5.15E-05 | 2.79E-05 |
| 438 | 259577.1 | 4085313 | 3.32E-04 | 5.05E-05 | 2.73E-05 |
| 439 | 259568.5 | 4085336 | 3.25E-04 | 4.95E-05 | 2.68E-05 |
| 440 | 259559.8 | 4085359 | 3.18E-04 | 4.85E-05 | 2.62E-05 |
| 441 | 259551.1 | 4085382 | 3.12E-04 | 4.75E-05 | 2.57E-05 |
| 442 | 259542.4 | 4085405 | 3.06E-04 | 4.66E-05 | 2.52E-05 |
| 443 | 259533.8 | 4085428 | 3.00E-04 | 4.58E-05 | 2.48E-05 |
| 444 | 259525.1 | 4085451 | 2.95E-04 | 4.50E-05 | 2.43E-05 |
| 445 | 259516.4 | 4085474 | 2.90E-04 | 4.42E-05 | 2.39E-05 |
| 446 | 259507.7 | 4085497 | 2.86E-04 | 4.36E-05 | 2.36E-05 |
| 447 | 259499 | 4085521 | 2.83E-04 | 4.31E-05 | 2.33E-05 |
| 448 | 259490.4 | 4085544 | 2.80E-04 | 4.26E-05 | 2.31E-05 |
| 449 | 259481.7 | 4085567 | 2.77E-04 | 4.22E-05 | 2.28E-05 |
| 450 | 259473 | 4085590 | 2.74E-04 | 4.18E-05 | 2.26E-05 |
| 451 | 259464.3 | 4085613 | 2.72E-04 | 4.14E-05 | 2.24E-05 |
| 452 | 259455.7 | 4085636 | 2.69E-04 | 4.10E-05 | 2.22E-05 |
| 453 | 259447 | 4085659 | 2.67E-04 | 4.07E-05 | 2.20E-05 |
| 454 | 259438.3 | 4085682 | 2.65E-04 | 4.03E-05 | 2.18E-05 |
| 455 | 259429.6 | 4085705 | 2.62E-04 | 3.99E-05 | 2.16E-05 |
| 456 | 259421 | 4085728 | 2.59E-04 | 3.95E-05 | 2.14E-05 |
| 457 | 259412.3 | 4085751 | 2.57E-04 | 3.91E-05 | 2.11E-05 |
| 458 | 259403.6 | 4085774 | 2.53E-04 | 3.86E-05 | 2.09E-05 |
| 459 | 259394.9 | 4085797 | 2.50E-04 | 3.81E-05 | 2.06E-05 |
| 460 | 259386.2 | 4085820 | 2.47E-04 | 3.76E-05 | 2.03E-05 |
| 461 | 259377.6 | 4085843 | 2.43E-04 | 3.70E-05 | 2.00E-05 |
| 462 | 259368.9 | 4085867 | 2.39E-04 | 3.64E-05 | 1.97E-05 |
| 463 | 259360.2 | 4085890 | 2.36E-04 | 3.59E-05 | 1.94E-05 |

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| 370 | 259317.2 | 4085478 | 3.48E-04 | 5.30E-05 | 2.87E-05 |
| 371 | 259308.5 | 4085501 | 3.43E-04 | 5.23E-05 | 2.83E-05 |
| 372 | 259299.9 | 4085524 | 3.39E-04 | 5.17E-05 | 2.80E-05 |
| 373 | 259291.2 | 4085547 | 3.35E-04 | 5.10E-05 | 2.76E-05 |
| 374 | 259282.6 | 4085570 | 3.31E-04 | 5.04E-05 | 2.73E-05 |
| 375 | 259274 | 4085593 | 3.27E-04 | 4.98E-05 | 2.69E-05 |
| 376 | 259265.3 | 4085616 | 3.23E-04 | 4.92E-05 | 2.66E-05 |
| 377 | 259256.7 | 4085639 | 3.18E-04 | 4.85E-05 | 2.62E-05 |
| 378 | 259248.1 | 4085662 | 3.14E-04 | 4.78E-05 | 2.59E-05 |
| 379 | 259239.4 | 4085685 | 3.09E-04 | 4.71E-05 | 2.55E-05 |
| 380 | 259230.8 | 4085708 | 3.04E-04 | 4.63E-05 | 2.51E-05 |
| 381 | 259222.1 | 4085731 | 2.99E-04 | 4.56E-05 | 2.46E-05 |
| 382 | 259213.5 | 4085754 | 2.94E-04 | 4.48E-05 | 2.42E-05 |
| 383 | 259204.9 | 4085777 | 2.89E-04 | 4.41E-05 | 2.38E-05 |
| 384 | 259196.2 | 4085800 | 2.85E-04 | 4.34E-05 | 2.35E-05 |
| 385 | 259187.6 | 4085823 | 2.81E-04 | 4.28E-05 | 2.31E-05 |
| 386 | 259179 | 4085846 | 2.77E-04 | 4.22E-05 | 2.28E-05 |
| 387 | 259148 | 4085879 | 2.77E-04 | 4.21E-05 | 2.28E-05 |
| 388 | 259125.8 | 4085889 | 2.80E-04 | 4.26E-05 | 2.31E-05 |
| 389 | 259103.5 | 4085900 | 2.83E-04 | 4.31E-05 | 2.33E-05 |
| 390 | 259081.2 | 4085910 | 2.87E-04 | 4.37E-05 | 2.36E-05 |
| 391 | 259059 | 4085920 | 2.90E-04 | 4.42E-05 | 2.39E-05 |
| 392 | 259036.7 | 4085931 | 2.94E-04 | 4.48E-05 | 2.42E-05 |
| 393 | 259014.4 | 4085941 | 2.98E-04 | 4.54E-05 | 2.45E-05 |
| 394 | 258992.2 | 4085951 | 3.02E-04 | 4.60E-05 | 2.49E-05 |
| 395 | 258969.9 | 4085962 | 3.06E-04 | 4.66E-05 | 2.52E-05 |
| 396 | 258947.6 | 4085972 | 3.10E-04 | 4.73E-05 | 2.56E-05 |
| 397 | 258925.3 | 4085982 | 3.16E-04 | 4.81E-05 | 2.60E-05 |
| 398 | 258903.1 | 4085992 | 3.22E-04 | 4.91E-05 | 2.65E-05 |
| 399 | 258880.8 | 4086003 | 3.29E-04 | 5.01E-05 | 2.71E-05 |
| 400 | 258858.5 | 4086013 | 3.37E-04 | 5.13E-05 | 2.78E-05 |
| 401 | 258836.3 | 4086023 | 3.45E-04 | 5.25E-05 | 2.84E-05 |
| 402 | 258814 | 4086034 | 3.53E-04 | 5.37E-05 | 2.91E-05 |
| 403 | 258791.7 | 4086044 | 3.60E-04 | 5.49E-05 | 2.97E-05 |
| 404 | 258769.5 | 4086054 | 3.67E-04 | 5.59E-05 | 3.03E-05 |
| 405 | 258747.2 | 4086065 | 3.73E-04 | 5.69E-05 | 3.08E-05 |
| 406 | 258724.9 | 4086075 | 3.79E-04 | 5.77E-05 | 3.12E-05 |
| 407 | 258702.6 | 4086085 | 3.83E-04 | 5.84E-05 | 3.16E-05 |
| 408 | 258680.4 | 4086095 | 3.87E-04 | 5.90E-05 | 3.19E-05 |
| 409 | 258658.1 | 4086106 | 3.91E-04 | 5.96E-05 | 3.22E-05 |
| 410 | 258635.8 | 4086116 | 3.95E-04 | 6.01E-05 | 3.25E-05 |
| 411 | 258613.6 | 4086126 | 3.99E-04 | 6.07E-05 | 3.29E-05 |
| 412 | 258591.3 | 4086137 | 4.03E-04 | 6.13E-05 | 3.32E-05 |
| 413 | 258569 | 4086147 | 4.07E-04 | 6.20E-05 | 3.36E-05 |
| 414 | 258546.8 | 4086157 | 4.12E-04 | 6.27E-05 | 3.39E-05 |
| 415 | 258524.5 | 4086168 | 4.17E-04 | 6.35E-05 | 3.44E-05 |
| 416 | 258502.2 | 4086178 | 4.22E-04 | 6.44E-05 | 3.48E-05 |

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| 323 | 258891 | 4085794 | 3.86E-04 | 5.88E-05 | 3.18E-05 |
| 324 | 258868.9 | 4085804 | 3.92E-04 | 5.98E-05 | 3.23E-05 |
| 325 | 258846.8 | 4085815 | 3.99E-04 | 6.08E-05 | 3.29E-05 |
| 326 | 258824.7 | 4085825 | 4.08E-04 | 6.21E-05 | 3.36E-05 |
| 327 | 258802.5 | 4085835 | 4.16E-04 | 6.34E-05 | 3.43E-05 |
| 328 | 258780.4 | 4085845 | 4.26E-04 | 6.49E-05 | 3.51E-05 |
| 329 | 258758.3 | 4085856 | 4.37E-04 | 6.65E-05 | 3.60E-05 |
| 330 | 258736.2 | 4085866 | 4.47E-04 | 6.81E-05 | 3.68E-05 |
| 331 | 258714 | 4085876 | 4.57E-04 | 6.96E-05 | 3.76E-05 |
| 332 | 258691.9 | 4085886 | 4.66E-04 | 7.10E-05 | 3.84E-05 |
| 333 | 258669.8 | 4085896 | 4.74E-04 | 7.22E-05 | 3.91E-05 |
| 334 | 258647.7 | 4085907 | 4.81E-04 | 7.33E-05 | 3.97E-05 |
| 335 | 258625.5 | 4085917 | 4.88E-04 | 7.43E-05 | 4.02E-05 |
| 336 | 258603.4 | 4085927 | 4.95E-04 | 7.54E-05 | 4.08E-05 |
| 337 | 258581.3 | 4085937 | 5.01E-04 | 7.64E-05 | 4.13E-05 |
| 338 | 258559.2 | 4085948 | 5.09E-04 | 7.75E-05 | 4.19E-05 |
| 339 | 258537 | 4085958 | 5.16E-04 | 7.87E-05 | 4.26E-05 |
| 340 | 258514.9 | 4085968 | 5.24E-04 | 7.99E-05 | 4.32E-05 |
| 341 | 258492.8 | 4085978 | 5.33E-04 | 8.12E-05 | 4.39E-05 |
| 342 | 258470.7 | 4085989 | 5.41E-04 | 8.25E-05 | 4.46E-05 |
| 343 | 258448.5 | 4085999 | 5.50E-04 | 8.38E-05 | 4.54E-05 |
| 344 | 258426.4 | 4086009 | 5.59E-04 | 8.52E-05 | 4.61E-05 |
| 345 | 259264.1 | 4085094 | 5.90E-04 | 8.99E-05 | 4.86E-05 |
| 346 | 259263.4 | 4085069 | 6.05E-04 | 9.22E-05 | 4.99E-05 |
| 347 | 259262.6 | 4085044 | 6.23E-04 | 9.49E-05 | 5.13E-05 |
| 348 | 259261.9 | 4085020 | 6.43E-04 | 9.79E-05 | 5.30E-05 |
| 349 | 259261.2 | 4084995 | 6.66E-04 | 1.01E-04 | 5.49E-05 |
| 350 | 259260.5 | 4084970 | 6.91E-04 | 1.05E-04 | 5.70E-05 |
| 351 | 259259.7 | 4084945 | 7.19E-04 | 1.09E-04 | 5.92E-05 |
| 352 | 259259 | 4084921 | 7.47E-04 | 1.14E-04 | 6.16E-05 |
| 353 | 259258.3 | 4084896 | 7.76E-04 | 1.18E-04 | 6.40E-05 |
| 354 | 259455.4 | 4085111 | 4.49E-04 | 6.84E-05 | 3.70E-05 |
| 355 | 259446.7 | 4085134 | 4.47E-04 | 6.81E-05 | 3.68E-05 |
| 356 | 259438.1 | 4085157 | 4.44E-04 | 6.76E-05 | 3.66E-05 |
| 357 | 259429.4 | 4085180 | 4.40E-04 | 6.71E-05 | 3.63E-05 |
| 358 | 259420.8 | 4085203 | 4.35E-04 | 6.63E-05 | 3.59E-05 |
| 359 | 259412.2 | 4085226 | 4.29E-04 | 6.53E-05 | 3.53E-05 |
| 360 | 259403.5 | 4085249 | 4.21E-04 | 6.42E-05 | 3.47E-05 |
| 361 | 259394.9 | 4085272 | 4.13E-04 | 6.29E-05 | 3.41E-05 |
| 362 | 259386.3 | 4085295 | 4.04E-04 | 6.16E-05 | 3.33E-05 |
| 363 | 259377.6 | 4085318 | 3.95E-04 | 6.02E-05 | 3.26E-05 |
| 364 | 259369 | 4085341 | 3.86E-04 | 5.88E-05 | 3.18E-05 |
| 365 | 259360.3 | 4085364 | 3.78E-04 | 5.76E-05 | 3.11E-05 |
| 366 | 259351.7 | 4085387 | 3.71E-04 | 5.65E-05 | 3.05E-05 |
| 367 | 259343.1 | 4085410 | 3.64E-04 | 5.54E-05 | 3.00E-05 |
| 368 | 259334.4 | 4085433 | 3.58E-04 | 5.45E-05 | 2.95E-05 |
| 369 | 259325.8 | 4085455 | 3.53E-04 | 5.38E-05 | 2.91E-05 |

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| 276 | 258526.8 | 4085759 | 6.84E-04 | 1.04E-04 | 5.64E-05 |
| 277 | 258504.9 | 4085769 | 6.96E-04 | 1.06E-04 | 5.74E-05 |
| 278 | 258483 | 4085779 | 7.10E-04 | 1.08E-04 | 5.85E-05 |
| 279 | 258461.1 | 4085789 | 7.25E-04 | 1.10E-04 | 5.97E-05 |
| 280 | 258439.2 | 4085799 | 7.40E-04 | 1.13E-04 | 6.10E-05 |
| 281 | 258417.3 | 4085809 | 7.56E-04 | 1.15E-04 | 6.23E-05 |
| 282 | 259064.2 | 4085100 | 8.29E-04 | 1.26E-04 | 6.84E-05 |
| 283 | 259063.4 | 4085075 | 8.60E-04 | 1.31E-04 | 7.09E-05 |
| 284 | 259062.7 | 4085050 | 8.94E-04 | 1.36E-04 | 7.37E-05 |
| 285 | 259062 | 4085025 | 9.32E-04 | 1.42E-04 | 7.68E-05 |
| 286 | 259061.3 | 4085001 | 9.73E-04 | 1.48E-04 | 8.02E-05 |
| 287 | 259060.6 | 4084976 | 1.02E-03 | 1.55E-04 | 8.40E-05 |
| 288 | 259059.8 | 4084951 | 1.07E-03 | 1.63E-04 | 8.80E-05 |
| 289 | 259059.1 | 4084926 | 1.12E-03 | 1.70E-04 | 9.22E-05 |
| 290 | 259058.4 | 4084902 | 1.17E-03 | 1.79E-04 | 9.67E-05 |
| 291 | 259255.5 | 4085117 | 5.85E-04 | 8.91E-05 | 4.82E-05 |
| 292 | 259246.9 | 4085139 | 5.79E-04 | 8.82E-05 | 4.77E-05 |
| 293 | 259238.3 | 4085162 | 5.72E-04 | 8.72E-05 | 4.72E-05 |
| 294 | 259229.8 | 4085185 | 5.63E-04 | 8.58E-05 | 4.64E-05 |
| 295 | 259221.2 | 4085208 | 5.52E-04 | 8.40E-05 | 4.55E-05 |
| 296 | 259212.6 | 4085231 | 5.40E-04 | 8.23E-05 | 4.45E-05 |
| 297 | 259204 | 4085254 | 5.28E-04 | 8.05E-05 | 4.35E-05 |
| 298 | 259195.4 | 4085276 | 5.16E-04 | 7.86E-05 | 4.25E-05 |
| 299 | 259186.8 | 4085299 | 5.04E-04 | 7.68E-05 | 4.16E-05 |
| 300 | 259178.3 | 4085322 | 4.93E-04 | 7.51E-05 | 4.06E-05 |
| 301 | 259169.7 | 4085345 | 4.82E-04 | 7.35E-05 | 3.98E-05 |
| 302 | 259161.1 | 4085368 | 4.73E-04 | 7.20E-05 | 3.90E-05 |
| 303 | 259152.5 | 4085390 | 4.64E-04 | 7.07E-05 | 3.82E-05 |
| 304 | 259143.9 | 4085413 | 4.56E-04 | 6.94E-05 | 3.76E-05 |
| 305 | 259135.4 | 4085436 | 4.48E-04 | 6.83E-05 | 3.69E-05 |
| 306 | 259126.8 | 4085459 | 4.41E-04 | 6.71E-05 | 3.63E-05 |
| 307 | 259118.2 | 4085482 | 4.33E-04 | 6.60E-05 | 3.57E-05 |
| 308 | 259109.6 | 4085505 | 4.26E-04 | 6.49E-05 | 3.51E-05 |
| 309 | 259101 | 4085527 | 4.19E-04 | 6.38E-05 | 3.45E-05 |
| 310 | 259092.4 | 4085550 | 4.11E-04 | 6.26E-05 | 3.39E-05 |
| 311 | 259083.9 | 4085573 | 4.04E-04 | 6.15E-05 | 3.33E-05 |
| 312 | 259075.3 | 4085596 | 3.96E-04 | 6.03E-05 | 3.26E-05 |
| 313 | 259066.7 | 4085619 | 3.88E-04 | 5.91E-05 | 3.20E-05 |
| 314 | 259058.1 | 4085641 | 3.81E-04 | 5.80E-05 | 3.14E-05 |
| 315 | 259049.5 | 4085664 | 3.74E-04 | 5.69E-05 | 3.08E-05 |
| 316 | 259041 | 4085687 | 3.67E-04 | 5.59E-05 | 3.03E-05 |
| 317 | 259032.4 | 4085710 | 3.61E-04 | 5.50E-05 | 2.98E-05 |
| 318 | 259001.7 | 4085743 | 3.60E-04 | 5.48E-05 | 2.97E-05 |
| 319 | 258979.5 | 4085753 | 3.64E-04 | 5.55E-05 | 3.00E-05 |
| 320 | 258957.4 | 4085763 | 3.69E-04 | 5.63E-05 | 3.04E-05 |
| 321 | 258935.3 | 4085774 | 3.74E-04 | 5.70E-05 | 3.09E-05 |
| 322 | 258913.2 | 4085784 | 3.80E-04 | 5.79E-05 | 3.13E-05 |

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| 229 | 258434.5 | 4085699 | 8.90E-04 | 1.36E-04 | 7.34E-05 |
| 230 | 258412.8 | 4085709 | 9.10E-04 | 1.39E-04 | 7.50E-05 |
| 231 | 258964.2 | 4085103 | 1.02E-03 | 1.56E-04 | 8.42E-05 |
| 232 | 258963.5 | 4085078 | 1.07E-03 | 1.63E-04 | 8.80E-05 |
| 233 | 258962.8 | 4085053 | 1.12E-03 | 1.70E-04 | 9.22E-05 |
| 234 | 258962 | 4085028 | 1.17E-03 | 1.79E-04 | 9.68E-05 |
| 235 | 258961.3 | 4085004 | 1.23E-03 | 1.88E-04 | 1.02E-04 |
| 236 | 258960.6 | 4084979 | 1.30E-03 | 1.98E-04 | 1.07E-04 |
| 237 | 258959.9 | 4084954 | 1.37E-03 | 2.09E-04 | 1.13E-04 |
| 238 | 258959.2 | 4084929 | 1.45E-03 | 2.20E-04 | 1.19E-04 |
| 239 | 258958.4 | 4084905 | 1.53E-03 | 2.32E-04 | 1.26E-04 |
| 240 | 259055.7 | 4085122 | 8.17E-04 | 1.24E-04 | 6.73E-05 |
| 241 | 259047.2 | 4085145 | 8.03E-04 | 1.22E-04 | 6.62E-05 |
| 242 | 259038.7 | 4085167 | 7.88E-04 | 1.20E-04 | 6.49E-05 |
| 243 | 259030.2 | 4085190 | 7.69E-04 | 1.17E-04 | 6.34E-05 |
| 244 | 259021.7 | 4085213 | 7.49E-04 | 1.14E-04 | 6.17E-05 |
| 245 | 259013.2 | 4085235 | 7.29E-04 | 1.11E-04 | 6.01E-05 |
| 246 | 259004.7 | 4085258 | 7.10E-04 | 1.08E-04 | 5.85E-05 |
| 247 | 258996.2 | 4085280 | 6.92E-04 | 1.05E-04 | 5.70E-05 |
| 248 | 258987.7 | 4085303 | 6.75E-04 | 1.03E-04 | 5.56E-05 |
| 249 | 258979.2 | 4085326 | 6.59E-04 | 1.00E-04 | 5.43E-05 |
| 250 | 258970.7 | 4085348 | 6.43E-04 | 9.80E-05 | 5.30E-05 |
| 251 | 258962.2 | 4085371 | 6.29E-04 | 9.58E-05 | 5.18E-05 |
| 252 | 258953.7 | 4085393 | 6.14E-04 | 9.36E-05 | 5.06E-05 |
| 253 | 258945.2 | 4085416 | 6.00E-04 | 9.14E-05 | 4.94E-05 |
| 254 | 258936.7 | 4085438 | 5.86E-04 | 8.92E-05 | 4.83E-05 |
| 255 | 258928.2 | 4085461 | 5.72E-04 | 8.71E-05 | 4.71E-05 |
| 256 | 258919.8 | 4085484 | 5.58E-04 | 8.50E-05 | 4.60E-05 |
| 257 | 258911.3 | 4085506 | 5.44E-04 | 8.29E-05 | 4.49E-05 |
| 258 | 258902.8 | 4085529 | 5.32E-04 | 8.10E-05 | 4.38E-05 |
| 259 | 258894.3 | 4085551 | 5.20E-04 | 7.92E-05 | 4.28E-05 |
| 260 | 258885.8 | 4085574 | 5.09E-04 | 7.75E-05 | 4.19E-05 |
| 261 | 258855.4 | 4085607 | 5.06E-04 | 7.71E-05 | 4.17E-05 |
| 262 | 258833.5 | 4085617 | 5.14E-04 | 7.84E-05 | 4.24E-05 |
| 263 | 258811.6 | 4085627 | 5.23E-04 | 7.97E-05 | 4.31E-05 |
| 264 | 258789.7 | 4085637 | 5.33E-04 | 8.12E-05 | 4.39E-05 |
| 265 | 258767.8 | 4085647 | 5.43E-04 | 8.27E-05 | 4.48E-05 |
| 266 | 258745.9 | 4085657 | 5.55E-04 | 8.45E-05 | 4.57E-05 |
| 267 | 258724 | 4085667 | 5.68E-04 | 8.65E-05 | 4.68E-05 |
| 268 | 258702.1 | 4085678 | 5.82E-04 | 8.87E-05 | 4.80E-05 |
| 269 | 258680.2 | 4085688 | 5.97E-04 | 9.10E-05 | 4.92E-05 |
| 270 | 258658.3 | 4085698 | 6.12E-04 | 9.33E-05 | 5.05E-05 |
| 271 | 258636.4 | 4085708 | 6.27E-04 | 9.55E-05 | 5.17E-05 |
| 272 | 258614.5 | 4085718 | 6.40E-04 | 9.74E-05 | 5.27E-05 |
| 273 | 258592.6 | 4085728 | 6.51E-04 | 9.92E-05 | 5.37E-05 |
| 274 | 258570.7 | 4085738 | 6.62E-04 | 1.01E-04 | 5.46E-05 |
| 275 | 258548.8 | 4085749 | 6.73E-04 | 1.02E-04 | 5.55E-05 |

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| 182 | 258472.6 | 4085580 | 1.07E-03 | 1.63E-04 | 8.83E-05 |
| 183 | 258451.1 | 4085590 | 1.10E-03 | 1.67E-04 | 9.03E-05 |
| 184 | 258429.6 | 4085600 | 1.12E-03 | 1.71E-04 | 9.25E-05 |
| 185 | 258408.1 | 4085610 | 1.15E-03 | 1.75E-04 | 9.48E-05 |
| 186 | 258864.3 | 4085106 | 1.30E-03 | 1.99E-04 | 1.07E-04 |
| 187 | 258863.5 | 4085081 | 1.38E-03 | 2.10E-04 | 1.13E-04 |
| 188 | 258862.8 | 4085056 | 1.46E-03 | 2.22E-04 | 1.20E-04 |
| 189 | 258862.1 | 4085031 | 1.54E-03 | 2.35E-04 | 1.27E-04 |
| 190 | 258861.4 | 4085007 | 1.64E-03 | 2.50E-04 | 1.35E-04 |
| 191 | 258860.6 | 4084982 | 1.74E-03 | 2.65E-04 | 1.43E-04 |
| 192 | 258859.9 | 4084957 | 1.85E-03 | 2.82E-04 | 1.53E-04 |
| 193 | 258859.2 | 4084932 | 1.97E-03 | 3.00E-04 | 1.62E-04 |
| 194 | 258858.5 | 4084907 | 2.09E-03 | 3.18E-04 | 1.72E-04 |
| 195 | 258955.8 | 4085125 | 1.00E-03 | 1.53E-04 | 8.26E-05 |
| 196 | 258947.3 | 4085147 | 9.81E-04 | 1.49E-04 | 8.08E-05 |
| 197 | 258938.9 | 4085170 | 9.58E-04 | 1.46E-04 | 7.89E-05 |
| 198 | 258930.5 | 4085192 | 9.33E-04 | 1.42E-04 | 7.69E-05 |
| 199 | 258922.1 | 4085215 | 9.08E-04 | 1.38E-04 | 7.49E-05 |
| 200 | 258913.6 | 4085237 | 8.83E-04 | 1.34E-04 | 7.28E-05 |
| 201 | 258905.2 | 4085260 | 8.58E-04 | 1.31E-04 | 7.07E-05 |
| 202 | 258896.8 | 4085282 | 8.32E-04 | 1.27E-04 | 6.85E-05 |
| 203 | 258888.3 | 4085304 | 8.06E-04 | 1.23E-04 | 6.64E-05 |
| 204 | 258879.9 | 4085327 | 7.84E-04 | 1.19E-04 | 6.46E-05 |
| 205 | 258871.5 | 4085349 | 7.63E-04 | 1.16E-04 | 6.29E-05 |
| 206 | 258863 | 4085372 | 7.42E-04 | 1.13E-04 | 6.11E-05 |
| 207 | 258854.6 | 4085394 | 7.21E-04 | 1.10E-04 | 5.94E-05 |
| 208 | 258846.2 | 4085416 | 7.01E-04 | 1.07E-04 | 5.78E-05 |
| 209 | 258837.7 | 4085439 | 6.82E-04 | 1.04E-04 | 5.62E-05 |
| 210 | 258829.3 | 4085461 | 6.63E-04 | 1.01E-04 | 5.47E-05 |
| 211 | 258820.9 | 4085484 | 6.46E-04 | 9.84E-05 | 5.33E-05 |
| 212 | 258812.4 | 4085506 | 6.30E-04 | 9.60E-05 | 5.19E-05 |
| 213 | 258782.3 | 4085539 | 6.27E-04 | 9.54E-05 | 5.16E-05 |
| 214 | 258760.5 | 4085549 | 6.39E-04 | 9.73E-05 | 5.26E-05 |
| 215 | 258738.8 | 4085559 | 6.51E-04 | 9.92E-05 | 5.37E-05 |
| 216 | 258717.1 | 4085569 | 6.65E-04 | 1.01E-04 | 5.49E-05 |
| 217 | 258695.3 | 4085579 | 6.81E-04 | 1.04E-04 | 5.62E-05 |
| 218 | 258673.6 | 4085589 | 6.99E-04 | 1.06E-04 | 5.76E-05 |
| 219 | 258651.9 | 4085599 | 7.18E-04 | 1.09E-04 | 5.92E-05 |
| 220 | 258630.1 | 4085609 | 7.38E-04 | 1.12E-04 | 6.08E-05 |
| 221 | 258608.4 | 4085619 | 7.57E-04 | 1.15E-04 | 6.24E-05 |
| 222 | 258586.6 | 4085629 | 7.75E-04 | 1.18E-04 | 6.39E-05 |
| 223 | 258564.9 | 4085639 | 7.93E-04 | 1.21E-04 | 6.53E-05 |
| 224 | 258543.2 | 4085649 | 8.08E-04 | 1.23E-04 | 6.66E-05 |
| 225 | 258521.4 | 4085659 | 8.20E-04 | 1.25E-04 | 6.76E-05 |
| 226 | 258499.7 | 4085669 | 8.38E-04 | 1.28E-04 | 6.91E-05 |
| 227 | 258478 | 4085679 | 8.54E-04 | 1.30E-04 | 7.04E-05 |
| 228 | 258456.2 | 4085689 | 8.70E-04 | 1.33E-04 | 7.17E-05 |

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| 135 | 258636.3 | 4085402 | 1.11E-03 | 1.68E-04 | 9.11E-05 |
| 136 | 258615.1 | 4085412 | 1.14E-03 | 1.73E-04 | 9.38E-05 |
| 137 | 258594 | 4085422 | 1.17E-03 | 1.79E-04 | 9.67E-05 |
| 138 | 258572.8 | 4085432 | 1.21E-03 | 1.85E-04 | 9.99E-05 |
| 139 | 258551.6 | 4085441 | 1.25E-03 | 1.91E-04 | 1.03E-04 |
| 140 | 258530.4 | 4085451 | 1.29E-03 | 1.97E-04 | 1.07E-04 |
| 141 | 258509.2 | 4085461 | 1.33E-03 | 2.03E-04 | 1.10E-04 |
| 142 | 258488.1 | 4085471 | 1.37E-03 | 2.08E-04 | 1.13E-04 |
| 143 | 258466.9 | 4085481 | 1.40E-03 | 2.14E-04 | 1.16E-04 |
| 144 | 258445.7 | 4085490 | 1.44E-03 | 2.19E-04 | 1.19E-04 |
| 145 | 258424.5 | 4085500 | 1.48E-03 | 2.25E-04 | 1.22E-04 |
| 146 | 258403.3 | 4085510 | 1.52E-03 | 2.31E-04 | 1.25E-04 |
| 147 | 258764.3 | 4085108 | 1.74E-03 | 2.66E-04 | 1.44E-04 |
| 148 | 258763.6 | 4085084 | 1.87E-03 | 2.84E-04 | 1.54E-04 |
| 149 | 258762.8 | 4085059 | 2.00E-03 | 3.05E-04 | 1.65E-04 |
| 150 | 258762.1 | 4085034 | 2.15E-03 | 3.28E-04 | 1.78E-04 |
| 151 | 258761.4 | 4085009 | 2.32E-03 | 3.53E-04 | 1.91E-04 |
| 152 | 258760.7 | 4084985 | 2.49E-03 | 3.79E-04 | 2.05E-04 |
| 153 | 258760 | 4084960 | 2.68E-03 | 4.08E-04 | 2.21E-04 |
| 154 | 258759.2 | 4084935 | 2.87E-03 | 4.37E-04 | 2.37E-04 |
| 155 | 258758.5 | 4084910 | 3.06E-03 | 4.67E-04 | 2.53E-04 |
| 156 | 258855.9 | 4085128 | 1.27E-03 | 1.94E-04 | 1.05E-04 |
| 157 | 258847.6 | 4085150 | 1.24E-03 | 1.89E-04 | 1.02E-04 |
| 158 | 258839.2 | 4085172 | 1.20E-03 | 1.83E-04 | 9.92E-05 |
| 159 | 258830.9 | 4085194 | 1.17E-03 | 1.78E-04 | 9.62E-05 |
| 160 | 258822.5 | 4085216 | 1.13E-03 | 1.72E-04 | 9.32E-05 |
| 161 | 258814.2 | 4085239 | 1.09E-03 | 1.67E-04 | 9.02E-05 |
| 162 | 258805.8 | 4085261 | 1.06E-03 | 1.61E-04 | 8.73E-05 |
| 163 | 258797.5 | 4085283 | 1.03E-03 | 1.56E-04 | 8.45E-05 |
| 164 | 258789.2 | 4085305 | 9.91E-04 | 1.51E-04 | 8.17E-05 |
| 165 | 258780.8 | 4085327 | 9.53E-04 | 1.45E-04 | 7.86E-05 |
| 166 | 258772.5 | 4085350 | 9.21E-04 | 1.40E-04 | 7.59E-05 |
| 167 | 258764.1 | 4085372 | 8.91E-04 | 1.36E-04 | 7.35E-05 |
| 168 | 258755.8 | 4085394 | 8.63E-04 | 1.31E-04 | 7.12E-05 |
| 169 | 258747.4 | 4085416 | 8.37E-04 | 1.27E-04 | 6.90E-05 |
| 170 | 258739.1 | 4085438 | 8.12E-04 | 1.24E-04 | 6.69E-05 |
| 171 | 258709.2 | 4085470 | 8.07E-04 | 1.23E-04 | 6.65E-05 |
| 172 | 258687.7 | 4085480 | 8.25E-04 | 1.26E-04 | 6.80E-05 |
| 173 | 258666.2 | 4085490 | 8.46E-04 | 1.29E-04 | 6.97E-05 |
| 174 | 258644.7 | 4085500 | 8.68E-04 | 1.32E-04 | 7.16E-05 |
| 175 | 258623.2 | 4085510 | 8.94E-04 | 1.36E-04 | 7.37E-05 |
| 176 | 258601.7 | 4085520 | 9.22E-04 | 1.40E-04 | 7.60E-05 |
| 177 | 258580.2 | 4085530 | 9.50E-04 | 1.45E-04 | 7.83E-05 |
| 178 | 258558.7 | 4085540 | 9.79E-04 | 1.49E-04 | 8.07E-05 |
| 179 | 258537.2 | 4085550 | 1.01E-03 | 1.53E-04 | 8.29E-05 |
| 180 | 258515.7 | 4085560 | 1.03E-03 | 1.57E-04 | 8.47E-05 |
| 181 | 258494.1 | 4085570 | 1.05E-03 | 1.60E-04 | 8.65E-05 |

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|---|---|---|---|---|---|
| 88 | 258613.6 | 4085088 | 3.42E-03 | 5.21E-04 | 2.82E-04 |
| 89 | 258612.9 | 4085063 | 3.81E-03 | 5.80E-04 | 3.14E-04 |
| 90 | 258612.2 | 4085039 | 4.24E-03 | 6.46E-04 | 3.50E-04 |
| 91 | 258611.5 | 4085014 | 4.71E-03 | 7.18E-04 | 3.89E-04 |
| 92 | 258610.7 | 4084989 | 5.20E-03 | 7.93E-04 | 4.29E-04 |
| 93 | 258610 | 4084964 | 5.69E-03 | 8.67E-04 | 4.69E-04 |
| 94 | 258609.3 | 4084940 | 6.15E-03 | 9.37E-04 | 5.07E-04 |
| 95 | 258608.6 | 4084915 | 6.54E-03 | 9.97E-04 | 5.39E-04 |
| 96 | 258656.3 | 4085133 | 2.39E-03 | 3.64E-04 | 1.97E-04 |
| 97 | 258648.3 | 4085154 | 2.29E-03 | 3.49E-04 | 1.89E-04 |
| 98 | 258640.3 | 4085175 | 2.19E-03 | 3.33E-04 | 1.80E-04 |
| 99 | 258632.3 | 4085197 | 2.08E-03 | 3.18E-04 | 1.72E-04 |
| 100 | 258624.3 | 4085218 | 1.99E-03 | 3.02E-04 | 1.64E-04 |
| 101 | 258616.3 | 4085239 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 102 | 258608.3 | 4085260 | 1.80E-03 | 2.74E-04 | 1.49E-04 |
| 103 | 258600.3 | 4085282 | 1.72E-03 | 2.62E-04 | 1.42E-04 |
| 104 | 258592.3 | 4085303 | 1.64E-03 | 2.50E-04 | 1.35E-04 |
| 105 | 258563.6 | 4085334 | 1.63E-03 | 2.48E-04 | 1.34E-04 |
| 106 | 258542.9 | 4085343 | 1.69E-03 | 2.57E-04 | 1.39E-04 |
| 107 | 258522.3 | 4085353 | 1.75E-03 | 2.67E-04 | 1.44E-04 |
| 108 | 258501.6 | 4085363 | 1.82E-03 | 2.77E-04 | 1.50E-04 |
| 109 | 258481 | 4085372 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 110 | 258460.3 | 4085382 | 1.95E-03 | 2.97E-04 | 1.61E-04 |
| 111 | 258439.7 | 4085391 | 2.01E-03 | 3.07E-04 | 1.66E-04 |
| 112 | 258419 | 4085401 | 2.08E-03 | 3.17E-04 | 1.71E-04 |
| 113 | 258398.4 | 4085410 | 2.15E-03 | 3.27E-04 | 1.77E-04 |
| 114 | 258664.3 | 4085111 | 2.49E-03 | 3.80E-04 | 2.05E-04 |
| 115 | 258663.6 | 4085087 | 2.72E-03 | 4.15E-04 | 2.25E-04 |
| 116 | 258662.9 | 4085062 | 2.99E-03 | 4.55E-04 | 2.46E-04 |
| 117 | 258662.2 | 4085037 | 3.28E-03 | 4.99E-04 | 2.70E-04 |
| 118 | 258661.4 | 4085012 | 3.59E-03 | 5.47E-04 | 2.96E-04 |
| 119 | 258660.7 | 4084988 | 3.93E-03 | 5.99E-04 | 3.24E-04 |
| 120 | 258660 | 4084963 | 4.27E-03 | 6.51E-04 | 3.52E-04 |
| 121 | 258659.3 | 4084938 | 4.62E-03 | 7.03E-04 | 3.81E-04 |
| 122 | 258658.6 | 4084913 | 4.93E-03 | 7.52E-04 | 4.07E-04 |
| 123 | 258756.1 | 4085130 | 1.69E-03 | 2.57E-04 | 1.39E-04 |
| 124 | 258747.9 | 4085152 | 1.63E-03 | 2.49E-04 | 1.35E-04 |
| 125 | 258739.6 | 4085174 | 1.58E-03 | 2.40E-04 | 1.30E-04 |
| 126 | 258731.4 | 4085196 | 1.52E-03 | 2.32E-04 | 1.25E-04 |
| 127 | 258723.2 | 4085218 | 1.46E-03 | 2.23E-04 | 1.21E-04 |
| 128 | 258715 | 4085239 | 1.41E-03 | 2.14E-04 | 1.16E-04 |
| 129 | 258706.8 | 4085261 | 1.35E-03 | 2.06E-04 | 1.11E-04 |
| 130 | 258698.6 | 4085283 | 1.30E-03 | 1.98E-04 | 1.07E-04 |
| 131 | 258690.4 | 4085305 | 1.25E-03 | 1.90E-04 | 1.03E-04 |
| 132 | 258682.1 | 4085327 | 1.20E-03 | 1.82E-04 | 9.86E-05 |
| 133 | 258673.9 | 4085349 | 1.15E-03 | 1.76E-04 | 9.51E-05 |
| 134 | 258665.7 | 4085371 | 1.11E-03 | 1.69E-04 | 9.16E-05 |

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|---|---|---|---|---|---|
| 41 | 258458.6 | 4084919 | 1.91E-02 | 2.91E-03 | 1.57E-03 |
| 42 | 258506.4 | 4085137 | 4.84E-03 | 7.37E-04 | 3.99E-04 |
| 43 | 258498.4 | 4085158 | 4.47E-03 | 6.81E-04 | 3.68E-04 |
| 44 | 258490.4 | 4085180 | 4.13E-03 | 6.29E-04 | 3.41E-04 |
| 45 | 258482.4 | 4085201 | 3.83E-03 | 5.84E-04 | 3.16E-04 |
| 46 | 258453.7 | 4085232 | 3.77E-03 | 5.75E-04 | 3.11E-04 |
| 47 | 258433.1 | 4085241 | 3.99E-03 | 6.09E-04 | 3.29E-04 |
| 48 | 258412.4 | 4085251 | 4.22E-03 | 6.43E-04 | 3.48E-04 |
| 49 | 258391.8 | 4085260 | 4.45E-03 | 6.77E-04 | 3.66E-04 |
| 50 | 258514.4 | 4085116 | 5.23E-03 | 7.96E-04 | 4.31E-04 |
| 51 | 258513.7 | 4085091 | 6.12E-03 | 9.32E-04 | 5.05E-04 |
| 52 | 258513 | 4085066 | 7.19E-03 | 1.10E-03 | 5.93E-04 |
| 53 | 258512.2 | 4085041 | 8.40E-03 | 1.28E-03 | 6.92E-04 |
| 54 | 258511.5 | 4085017 | 9.64E-03 | 1.47E-03 | 7.95E-04 |
| 55 | 258510.8 | 4084992 | 1.08E-02 | 1.64E-03 | 8.90E-04 |
| 56 | 258510.1 | 4084967 | 1.18E-02 | 1.79E-03 | 9.69E-04 |
| 57 | 258509.3 | 4084942 | 1.24E-02 | 1.90E-03 | 1.03E-03 |
| 58 | 258508.6 | 4084918 | 1.28E-02 | 1.95E-03 | 1.05E-03 |
| 59 | 258556.8 | 4085135 | 3.71E-03 | 5.65E-04 | 3.05E-04 |
| 60 | 258541.5 | 4085175 | 3.28E-03 | 5.00E-04 | 2.70E-04 |
| 61 | 258526.2 | 4085216 | 2.90E-03 | 4.42E-04 | 2.39E-04 |
| 62 | 258491.3 | 4085265 | 2.71E-03 | 4.12E-04 | 2.23E-04 |
| 63 | 258452 | 4085284 | 2.96E-03 | 4.52E-04 | 2.44E-04 |
| 64 | 258412.6 | 4085302 | 3.23E-03 | 4.92E-04 | 2.66E-04 |
| 65 | 258563.7 | 4085090 | 4.45E-03 | 6.79E-04 | 3.67E-04 |
| 66 | 258562.9 | 4085065 | 5.07E-03 | 7.72E-04 | 4.18E-04 |
| 67 | 258562.2 | 4085040 | 5.76E-03 | 8.78E-04 | 4.75E-04 |
| 68 | 258561.5 | 4085015 | 6.50E-03 | 9.91E-04 | 5.36E-04 |
| 69 | 258560.8 | 4084990 | 7.25E-03 | 1.10E-03 | 5.97E-04 |
| 70 | 258560 | 4084966 | 7.94E-03 | 1.21E-03 | 6.55E-04 |
| 71 | 258559.3 | 4084941 | 8.54E-03 | 1.30E-03 | 7.04E-04 |
| 72 | 258558.6 | 4084916 | 8.97E-03 | 1.37E-03 | 7.40E-04 |
| 73 | 258606 | 4085135 | 2.93E-03 | 4.46E-04 | 2.41E-04 |
| 74 | 258597.7 | 4085157 | 2.77E-03 | 4.22E-04 | 2.28E-04 |
| 75 | 258589.3 | 4085179 | 2.62E-03 | 3.99E-04 | 2.16E-04 |
| 76 | 258581 | 4085202 | 2.47E-03 | 3.76E-04 | 2.04E-04 |
| 77 | 258572.6 | 4085224 | 2.33E-03 | 3.55E-04 | 1.92E-04 |
| 78 | 258564.3 | 4085246 | 2.20E-03 | 3.36E-04 | 1.82E-04 |
| 79 | 258556 | 4085268 | 2.08E-03 | 3.18E-04 | 1.72E-04 |
| 80 | 258526.1 | 4085300 | 2.06E-03 | 3.14E-04 | 1.70E-04 |
| 81 | 258504.6 | 4085310 | 2.15E-03 | 3.28E-04 | 1.78E-04 |
| 82 | 258483.1 | 4085320 | 2.25E-03 | 3.43E-04 | 1.86E-04 |
| 83 | 258461.6 | 4085330 | 2.35E-03 | 3.58E-04 | 1.94E-04 |
| 84 | 258440.1 | 4085340 | 2.44E-03 | 3.72E-04 | 2.02E-04 |
| 85 | 258418.5 | 4085350 | 2.54E-03 | 3.87E-04 | 2.09E-04 |
| 86 | 258397 | 4085360 | 2.64E-03 | 4.02E-04 | 2.17E-04 |
| 87 | 258614.4 | 4085113 | 3.08E-03 | 4.69E-04 | 2.54E-04 |

| | | | | | 2007 |
|---|---|---|---|---|---|
| | | | 2000 | 257758.52 | 4085171.97 |
| | Max Yr | 2 | 4.89E-02 | 7.45E-03 | 4.03E-03 |
| | Row | 33 | T2 | T2L3 | T4f |
| | | Col | 3 | 4 | 5 |
| | | Adjustment | 100% | 15% | 8% |
| | | | Year 2 | Year 2 | Year 2 |
| 1 | 258389.5 | 4085119 | 1.73E-02 | 2.63E-03 | 1.42E-03 |
| 2 | 258388.7 | 4085095 | 2.75E-02 | 4.19E-03 | 2.27E-03 |
| 3 | 258388 | 4085070 | 3.82E-02 | 5.81E-03 | 3.15E-03 |
| 4 | 258387.3 | 4085045 | 4.49E-02 | 6.84E-03 | 3.70E-03 |
| 5 | 258386.6 | 4085020 | 4.88E-02 | 7.43E-03 | 4.02E-03 |
| 6 | 258385.8 | 4084996 | 5.06E-02 | 7.71E-03 | 4.17E-03 |
| 7 | 258385.1 | 4084971 | 5.06E-02 | 7.71E-03 | 4.17E-03 |
| 8 | 258384.4 | 4084946 | 4.86E-02 | 7.40E-03 | 4.00E-03 |
| 9 | 258383.7 | 4084921 | 4.19E-02 | 6.38E-03 | 3.45E-03 |
| 10 | 258407.8 | 4085136 | 1.06E-02 | 1.62E-03 | 8.76E-04 |
| 11 | 258383.9 | 4085162 | 1.03E-02 | 1.56E-03 | 8.46E-04 |
| 12 | 258413.7 | 4085094 | 1.70E-02 | 2.58E-03 | 1.40E-03 |
| 13 | 258413 | 4085069 | 2.28E-02 | 3.47E-03 | 1.88E-03 |
| 14 | 258412.3 | 4085044 | 2.77E-02 | 4.22E-03 | 2.28E-03 |
| 15 | 258411.6 | 4085020 | 3.12E-02 | 4.76E-03 | 2.57E-03 |
| 16 | 258410.8 | 4084995 | 3.33E-02 | 5.08E-03 | 2.75E-03 |
| 17 | 258410.1 | 4084970 | 3.42E-02 | 5.20E-03 | 2.82E-03 |
| 18 | 258409.4 | 4084945 | 3.35E-02 | 5.10E-03 | 2.76E-03 |
| 19 | 258408.7 | 4084921 | 3.11E-02 | 4.73E-03 | 2.56E-03 |
| 20 | 258432.8 | 4085136 | 8.37E-03 | 1.28E-03 | 6.90E-04 |
| 21 | 258402.2 | 4085179 | 7.38E-03 | 1.12E-03 | 6.08E-04 |
| 22 | 258438.7 | 4085093 | 1.20E-02 | 1.83E-03 | 9.91E-04 |
| 23 | 258438 | 4085068 | 1.54E-02 | 2.35E-03 | 1.27E-03 |
| 24 | 258437.3 | 4085044 | 1.89E-02 | 2.87E-03 | 1.55E-03 |
| 25 | 258436.5 | 4085019 | 2.17E-02 | 3.30E-03 | 1.79E-03 |
| 26 | 258435.8 | 4084994 | 2.37E-02 | 3.61E-03 | 1.95E-03 |
| 27 | 258435.1 | 4084969 | 2.48E-02 | 3.78E-03 | 2.04E-03 |
| 28 | 258434.4 | 4084945 | 2.49E-02 | 3.80E-03 | 2.06E-03 |
| 29 | 258433.7 | 4084920 | 2.41E-02 | 3.67E-03 | 1.99E-03 |
| 30 | 258457.7 | 4085135 | 6.83E-03 | 1.04E-03 | 5.63E-04 |
| 31 | 258444.4 | 4085170 | 5.78E-03 | 8.80E-04 | 4.76E-04 |
| 32 | 258420.5 | 4085196 | 5.67E-03 | 8.64E-04 | 4.67E-04 |
| 33 | 258386.1 | 4085212 | 6.37E-03 | 9.70E-04 | 5.25E-04 |
| 34 | 258463.7 | 4085092 | 9.21E-03 | 1.40E-03 | 7.59E-04 |
| 35 | 258463 | 4085068 | 1.14E-02 | 1.74E-03 | 9.40E-04 |
| 36 | 258462.3 | 4085043 | 1.37E-02 | 2.09E-03 | 1.13E-03 |
| 37 | 258461.5 | 4085018 | 1.59E-02 | 2.43E-03 | 1.31E-03 |
| 38 | 258460.8 | 4084993 | 1.77E-02 | 2.69E-03 | 1.46E-03 |
| 39 | 258460.1 | 4084969 | 1.88E-02 | 2.87E-03 | 1.55E-03 |
| 40 | 258459.4 | 4084944 | 1.93E-02 | 2.94E-03 | 1.59E-03 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2937 | 256526.38 | 4086214.85 | 1.09E-05 | 1.57E-04 | 1.16E-04 | 1.16E-04 | 6.45E-05 | 1.65E-06 | 2.39E-05 | 1.81E-05 | 1.81E-05 | 9.93E-06 | 8.95E-07 | 1.29E-05 | 8.04E-06 | 8.04E-06 | 3.98E-06 |
| 2938 | 256516.33 | 4086193.03 | 1.10E-05 | 1.59E-04 | 1.17E-04 | 1.17E-04 | 6.55E-05 | 1.67E-06 | 2.43E-05 | 1.83E-05 | 1.83E-05 | 1.01E-05 | 9.08E-07 | 1.31E-05 | 8.16E-06 | 8.16E-06 | 4.04E-06 |
| 2939 | 256506.29 | 4086171.21 | 1.12E-05 | 1.61E-04 | 1.19E-04 | 1.19E-04 | 6.64E-05 | 1.69E-06 | 2.46E-05 | 1.88E-05 | 1.88E-05 | 1.02E-05 | 9.20E-07 | 1.33E-05 | 8.27E-06 | 8.27E-06 | 4.09E-06 |
| 2940 | 256496.24 | 4086149.39 | 1.13E-05 | 1.64E-04 | 1.21E-04 | 1.21E-04 | 6.72E-05 | 1.72E-06 | 2.49E-05 | 1.88E-05 | 1.88E-05 | 1.03E-05 | 9.32E-07 | 1.35E-05 | 8.37E-06 | 8.37E-06 | 4.14E-06 |
| 2941 | 256486.19 | 4086127.57 | 1.14E-05 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.79E-05 | 1.74E-06 | 2.52E-05 | 1.90E-05 | 1.90E-05 | 1.05E-05 | 9.42E-07 | 1.36E-05 | 8.47E-06 | 8.47E-06 | 4.19E-06 |
| 2942 | 256476.14 | 4086105.75 | 1.15E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.86E-05 | 1.75E-06 | 2.54E-05 | 1.92E-05 | 1.92E-05 | 1.06E-05 | 9.51E-07 | 1.38E-05 | 8.54E-06 | 8.54E-06 | 4.23E-06 |
| 2943 | 256466.1 | 4086083.93 | 1.16E-05 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.91E-05 | 1.76E-06 | 2.56E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.58E-07 | 1.39E-05 | 8.61E-06 | 8.61E-06 | 4.26E-06 |
| 2944 | 256456.05 | 4086062.11 | 1.17E-05 | 1.69E-04 | 1.24E-04 | 1.24E-04 | 6.94E-05 | 1.77E-06 | 2.57E-05 | 1.94E-05 | 1.94E-06 | 1.07E-05 | 9.62E-07 | 1.39E-05 | 8.65E-06 | 8.65E-06 | 4.28E-06 |
| 2945 | 256446 | 4086040.29 | 1.17E-05 | 1.69E-04 | 1.25E-04 | 1.25E-04 | 6.95E-05 | 1.78E-06 | 2.58E-05 | 1.95E-05 | 1.95E-05 | 1.07E-05 | 9.64E-07 | 1.39E-05 | 8.66E-06 | 8.66E-06 | 4.29E-06 |
| 2946 | 256435.95 | 4086018.47 | 1.17E-05 | 1.69E-04 | 1.25E-04 | 1.25E-04 | 6.94E-05 | 1.77E-06 | 2.57E-05 | 1.94E-05 | 1.94E-05 | 1.07E-05 | 9.63E-07 | 1.39E-05 | 8.65E-06 | 8.65E-06 | 4.28E-06 |
| 2947 | 256425.91 | 4085996.65 | 1.16E-05 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.91E-05 | 1.77E-06 | 2.56E-05 | 1.94E-05 | 1.94E-05 | 1.06E-05 | 9.59E-07 | 1.39E-05 | 8.61E-06 | 8.61E-06 | 4.26E-06 |
| 2948 | 256415.86 | 4085974.83 | 1.15E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.86E-05 | 1.75E-06 | 2.54E-05 | 1.92E-05 | 1.92E-05 | 1.06E-05 | 9.51E-07 | 1.38E-05 | 8.55E-06 | 8.55E-06 | 4.23E-06 |
| 2949 | 256405.81 | 4085953.01 | 1.14E-05 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.78E-05 | 1.73E-06 | 2.51E-05 | 1.90E-05 | 1.90E-05 | 1.04E-05 | 9.41E-07 | 1.36E-05 | 8.45E-06 | 8.45E-06 | 4.18E-06 |
| 2950 | 256395.76 | 4085931.19 | 1.12E-05 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.68E-05 | 1.71E-06 | 2.48E-05 | 1.87E-05 | 1.87E-05 | 1.03E-05 | 9.26E-07 | 1.34E-05 | 8.32E-06 | 8.32E-06 | 4.12E-06 |
| 2951 | 256385.71 | 4085909.37 | 1.10E-05 | 1.59E-04 | 1.18E-04 | 1.18E-04 | 6.55E-05 | 1.67E-06 | 2.43E-05 | 1.83E-05 | 1.83E-05 | 1.01E-05 | 9.09E-07 | 1.31E-05 | 8.16E-06 | 8.16E-06 | 4.04E-06 |
| 2952 | 256375.67 | 4085887.55 | 1.08E-05 | 1.56E-04 | 1.15E-04 | 1.15E-04 | 6.40E-05 | 1.64E-06 | 2.37E-05 | 1.79E-05 | 1.79E-05 | 9.86E-06 | 8.88E-07 | 1.28E-05 | 7.98E-06 | 7.98E-06 | 3.95E-06 |
| 2953 | 256365.62 | 4085865.73 | 1.05E-05 | 1.52E-04 | 1.12E-04 | 1.12E-04 | 6.24E-05 | 1.59E-06 | 2.31E-05 | 1.75E-05 | 1.75E-05 | 9.60E-06 | 8.65E-07 | 1.25E-05 | 7.77E-06 | 7.77E-06 | 3.85E-06 |
| 2954 | 256355.57 | 4085843.91 | 1.01E-05 | 1.47E-04 | 1.08E-04 | 1.08E-04 | 6.03E-05 | 1.54E-06 | 2.24E-05 | 1.69E-05 | 1.69E-05 | 9.29E-06 | 8.37E-07 | 1.21E-05 | 7.52E-06 | 7.52E-06 | 3.72E-06 |
| 2955 | 256345.52 | 4085822.09 | 9.78E-06 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.81E-05 | 1.48E-06 | 2.15E-05 | 1.63E-05 | 1.63E-05 | 8.95E-06 | 8.06E-07 | 1.17E-05 | 7.24E-06 | 7.24E-06 | 3.58E-06 |
| 2956 | 256335.48 | 4085800.27 | 9.37E-06 | 1.36E-04 | 9.99E-05 | 9.99E-05 | 5.57E-05 | 1.42E-06 | 2.07E-05 | 1.56E-05 | 1.56E-05 | 8.58E-06 | 7.73E-07 | 1.12E-05 | 6.94E-06 | 6.94E-06 | 3.44E-06 |
| 2957 | 256325.43 | 4085778.45 | 8.95E-06 | 1.29E-04 | 9.54E-05 | 9.54E-05 | 5.32E-05 | 1.36E-06 | 1.97E-05 | 1.49E-05 | 1.49E-06 | 8.19E-06 | 7.38E-07 | 1.07E-05 | 6.63E-06 | 6.63E-06 | 3.28E-06 |
| 2958 | 256315.38 | 4085756.63 | 8.51E-06 | 1.23E-04 | 9.08E-05 | 9.08E-05 | 5.06E-05 | 1.29E-06 | 1.88E-05 | 1.42E-05 | 1.42E-05 | 7.79E-06 | 7.02E-07 | 1.02E-05 | 6.31E-06 | 6.31E-06 | 3.12E-06 |
| 2959 | 256305.33 | 4085734.81 | 8.07E-06 | 1.17E-04 | 8.60E-05 | 8.60E-05 | 4.80E-05 | 1.22E-06 | 1.78E-05 | 1.34E-05 | 1.34E-05 | 7.39E-06 | 6.65E-07 | 9.62E-06 | 5.98E-06 | 5.98E-06 | 2.96E-06 |
| 2960 | 256295.29 | 4085712.99 | 7.64E-06 | 1.10E-04 | 8.14E-05 | 8.14E-05 | 4.54E-05 | 1.16E-06 | 1.68E-05 | 1.27E-05 | 1.27E-05 | 6.99E-06 | 6.30E-07 | 9.11E-06 | 5.66E-06 | 5.66E-06 | 2.80E-06 |
| 2961 | 256285.24 | 4085691.17 | 7.22E-06 | 1.04E-04 | 7.70E-05 | 7.70E-05 | 4.29E-05 | 1.10E-06 | 1.59E-05 | 1.20E-05 | 1.20E-05 | 6.61E-06 | 5.95E-07 | 8.61E-06 | 5.35E-06 | 5.35E-06 | 2.65E-06 |
| 2962 | 256275.19 | 4085669.35 | 6.81E-06 | 9.85E-05 | 7.26E-05 | 7.26E-05 | 4.05E-05 | 1.03E-06 | 1.50E-05 | 1.13E-05 | 1.13E-05 | 6.23E-06 | 5.62E-07 | 8.12E-06 | 5.09E-06 | 5.05E-06 | 2.50E-06 |
| 2963 | 256265.14 | 4085647.53 | 6.44E-06 | 9.31E-05 | 6.87E-05 | 6.87E-05 | 3.83E-05 | 9.77E-07 | 1.42E-05 | 1.07E-05 | 1.07E-05 | 5.89E-06 | 5.31E-07 | 7.68E-06 | 4.77E-06 | 4.77E-06 | 2.36E-06 |
| 2964 | 256255.09 | 4085625.71 | 6.10E-06 | 8.83E-06 | 6.51E-06 | 6.51E-05 | 3.63E-05 | 9.26E-07 | 1.34E-05 | 1.02E-05 | 1.02E-05 | 5.58E-06 | 5.03E-07 | 7.28E-06 | 4.52E-06 | 4.52E-06 | 2.24E-06 |
| 2965 | 256245.05 | 4085603.89 | 5.80E-06 | 8.39E-05 | 6.19E-05 | 6.19E-05 | 3.45E-05 | 8.81E-07 | 1.28E-05 | 9.66E-06 | 9.66E-06 | 5.31E-06 | 4.78E-07 | 6.92E-06 | 4.30E-06 | 4.30E-06 | 2.13E-06 |
| 2966 | 256235 | 4085582.07 | 5.54E-06 | 8.02E-05 | 5.91E-05 | 5.91E-05 | 3.29E-05 | 8.41E-07 | 1.22E-05 | 9.23E-06 | 9.23E-06 | 5.07E-06 | 4.57E-07 | 6.61E-06 | 4.10E-06 | 4.10E-06 | 2.03E-06 |
| 2967 | 256224.95 | 4085560.26 | 5.32E-06 | 7.70E-05 | 5.68E-05 | 5.68E-05 | 3.16E-05 | 8.08E-07 | 1.17E-05 | 8.86E-06 | 8.86E-06 | 4.87E-06 | 4.39E-07 | 6.35E-06 | 3.94E-06 | 3.94E-06 | 1.95E-06 |
| 2968 | 256214.9 | 4085538.44 | 5.14E-06 | 7.43E-05 | 5.48E-05 | 5.48E-05 | 3.05E-05 | 7.80E-07 | 1.13E-06 | 8.55E-06 | 8.55E-06 | 4.70E-06 | 4.24E-07 | 6.13E-06 | 3.81E-06 | 3.81E-06 | 1.88E-06 |
| 2969 | 256204.86 | 4085516.62 | 4.99E-06 | 7.21E-05 | 5.31E-05 | 5.31E-05 | 2.96E-05 | 7.57E-07 | 1.10E-05 | 8.30E-06 | 8.30E-06 | 4.56E-06 | 4.11E-07 | 5.94E-06 | 3.69E-06 | 3.69E-06 | 1.83E-06 |
| 2970 | 256194.81 | 4085494.8 | 4.86E-06 | 7.02E-05 | 5.18E-05 | 5.18E-05 | 2.89E-05 | 7.37E-07 | 1.07E-05 | 8.08E-06 | 8.08E-06 | 4.44E-06 | 4.00E-07 | 5.79E-06 | 3.60E-06 | 3.60E-06 | 1.78E-06 |
| 2971 | 256184.76 | 4085472.98 | 4.75E-06 | 6.87E-05 | 5.06E-05 | 5.06E-05 | 2.82E-05 | 7.21E-07 | 1.05E-05 | 7.90E-06 | 7.90E-06 | 4.34E-06 | 3.91E-07 | 5.66E-06 | 3.52E-06 | 3.52E-06 | 1.74E-06 |
| 2972 | 256174.71 | 4085451.16 | 4.65E-06 | 6.72E-05 | 4.96E-05 | 4.96E-05 | 2.76E-05 | 7.06E-07 | 1.02E-05 | 7.74E-06 | 7.74E-06 | 4.25E-06 | 3.83E-07 | 5.54E-06 | 3.44E-06 | 3.44E-06 | 1.70E-06 |
| 2973 | 256164.67 | 4085429.34 | 4.56E-06 | 6.60E-05 | 4.88E-05 | 4.86E-05 | 2.71E-05 | 8.92E-07 | 1.01E-05 | 7.59E-06 | 7.59E-06 | 4.17E-06 | 3.76E-07 | 5.44E-06 | 3.38E-06 | 3.38E-06 | 1.67E-06 |
| 2974 | 256154.62 | 4085407.52 | 4.48E-06 | 6.47E-05 | 4.77E-05 | 4.77E-05 | 2.66E-05 | 6.79E-07 | 9.86E-06 | 7.45E-06 | 7.45E-06 | 4.10E-06 | 3.69E-07 | 5.34E-06 | 3.31E-06 | 3.31E-06 | 1.64E-06 |
| 2975 | 256144.57 | 4085385.7 | 4.39E-06 | 6.35E-05 | 4.68E-05 | 4.68E-05 | 2.61E-05 | 6.66E-07 | 9.67E-06 | 7.31E-06 | 7.31E-06 | 4.02E-06 | 3.62E-07 | 5.23E-06 | 3.25E-06 | 3.25E-06 | 1.61E-06 |
| 2976 | 256134.52 | 4085363.88 | 4.30E-06 | 6.22E-05 | 4.59E-05 | 4.59E-05 | 2.56E-05 | 6.53E-07 | 9.48E-06 | 7.16E-06 | 7.16E-06 | 3.94E-06 | 3.55E-07 | 5.13E-06 | 3.19E-06 | 3.19E-06 | 1.58E-06 |
| 2977 | 256124.47 | 4085342.06 | 4.22E-06 | 6.10E-06 | 4.50E-05 | 4.50E-05 | 2.51E-05 | 6.40E-07 | 9.29E-06 | 7.02E-06 | 7.02E-06 | 3.86E-06 | 3.48E-07 | 5.03E-06 | 3.12E-06 | 3.12E-06 | 1.55E-06 |
| 2978 | 256114.43 | 4085320.24 | 4.13E-06 | 5.97E-05 | 4.40E-05 | 4.40E-05 | 2.46E-05 | 6.27E-07 | 9.10E-06 | 6.88E-06 | 6.88E-06 | 3.78E-06 | 3.41E-07 | 4.93E-06 | 3.06E-06 | 3.06E-06 | 1.51E-06 |
| 2979 | 256104.38 | 4085298.42 | 4.05E-06 | 5.86E-05 | 4.32E-05 | 4.32E-05 | 2.41E-05 | 6.15E-07 | 8.93E-06 | 6.74E-06 | 6.74E-06 | 3.71E-06 | 3.34E-07 | 4.83E-06 | 3.00E-06 | 3.00E-06 | 1.48E-06 |
| 2980 | 256094.33 | 4085276.6 | 3.98E-06 | 5.75E-05 | 4.24E-05 | 4.24E-05 | 2.36E-05 | 6.04E-07 | 8.76E-06 | 6.62E-06 | 6.62E-06 | 3.64E-06 | 3.28E-07 | 4.74E-06 | 2.95E-06 | 2.95E-06 | 1.46E-06 |
| 2981 | 256084.28 | 4085254.78 | 3.91E-06 | 5.65E-05 | 4.18E-05 | 4.16E-05 | 2.32E-05 | 5.93E-07 | 8.61E-06 | 6.50E-06 | 6.50E-06 | 3.57E-06 | 3.22E-07 | 4.66E-06 | 2.89E-06 | 2.89E-06 | 1.43E-06 |
| 2982 | 256074.24 | 4085232.96 | 3.85E-06 | 5.56E-05 | 4.10E-05 | 4.10E-05 | 2.29E-05 | 5.84E-07 | 8.47E-06 | 6.40E-06 | 6.40E-06 | 3.52E-06 | 3.17E-07 | 4.59E-06 | 2.85E-06 | 2.85E-06 | 1.41E-06 |
| 2983 | 257629.53 | 4086654.13 | 7.14E-06 | 1.03E-04 | 7.61E-06 | 7.61E-05 | 4.24E-05 | 1.08E-06 | 1.57E-05 | 1.19E-05 | 1.19E-05 | 6.53E-06 | 5.88E-07 | 8.51E-06 | 5.29E-06 | 5.29E-06 | 2.62E-06 |
| 2984 | 257653.81 | 4086653.06 | 7.07E-06 | 1.02E-04 | 7.54E-05 | 7.54E-05 | 4.20E-05 | 1.07E-06 | 1.56E-05 | 1.18E-05 | 1.18E-05 | 6.47E-06 | 5.83E-07 | 8.43E-06 | 5.24E-06 | 5.24E-06 | 2.59E-06 |
| 2985 | 257678.09 | 4086651.98 | 7.01E-06 | 1.01E-04 | 7.47E-05 | 7.47E-05 | 4.17E-05 | 1.06E-06 | 1.54E-05 | 1.17E-05 | 1.17E-05 | 6.41E-06 | 5.78E-07 | 8.36E-06 | 5.19E-06 | 5.19E-06 | 2.57E-06 |
| 2986 | 257702.38 | 4086650.9 | 6.95E-06 | 1.01E-04 | 7.41E-05 | 7.41E-05 | 4.13E-05 | 1.05E-06 | 1.53E-05 | 1.16E-06 | 1.16E-05 | 6.36E-06 | 5.73E-07 | 8.28E-06 | 5.15E-06 | 5.15E-06 | 2.55E-06 |
| 2987 | 257726.66 | 4086649.83 | 6.89E-06 | 9.97E-05 | 7.35E-05 | 7.35E-05 | 4.10E-05 | 1.05E-06 | 1.52E-06 | 1.15E-05 | 1.15E-05 | 6.31E-06 | 5.68E-07 | 8.22E-06 | 5.10E-06 | 5.10E-06 | 2.53E-06 |
| 2988 | 257750.94 | 4086648.75 | 6.83E-06 | 9.88E-05 | 7.29E-05 | 7.29E-05 | 4.06E-05 | 1.04E-06 | 1.51E-05 | 1.14E-05 | 1.14E-05 | 6.25E-06 | 5.63E-07 | 8.15E-06 | 5.06E-06 | 5.06E-06 | 2.51E-06 |
| 2989 | 257775.22 | 4086647.68 | 6.77E-06 | 9.80E-05 | 7.22E-05 | 7.22E-05 | 4.03E-05 | 1.03E-06 | 1.49E-06 | 1.13E-05 | 1.13E-05 | 6.20E-06 | 5.58E-07 | 8.08E-06 | 5.02E-06 | 5.02E-06 | 2.48E-06 |
| 2990 | 257799.5 | 4086646.6 | 6.71E-06 | 9.71E-05 | 7.16E-05 | 7.16E-05 | 3.99E-05 | 1.02E-06 | 1.48E-05 | 1.12E-05 | 1.12E-06 | 6.14E-06 | 5.53E-07 | 8.00E-06 | 4.97E-06 | 4.97E-06 | 2.46E-06 |
| 2991 | 257823.79 | 4086645.53 | 6.65E-06 | 9.61E-05 | 7.09E-05 | 7.09E-05 | 3.95E-05 | 1.01E-06 | 1.46E-05 | 1.11E-05 | 1.11E-05 | 6.08E-06 | 5.48E-07 | 7.92E-06 | 4.92E-06 | 4.92E-06 | 2.44E-06 |
| 2992 | 257848.07 | 4086644.45 | 6.58E-06 | 9.51E-05 | 7.01E-05 | 7.01E-05 | 3.91E-05 | 9.98E-07 | 1.45E-05 | 1.09E-05 | 1.09E-05 | 6.02E-06 | 5.42E-07 | 7.84E-06 | 4.87E-06 | 4.87E-06 | 2.41E-06 |
| 2993 | 257872.35 | 4086643.38 | 6.50E-06 | 9.40E-05 | 6.93E-05 | 6.93E-05 | 3.86E-05 | 9.86E-07 | 1.43E-06 | 1.08E-05 | 1.08E-05 | 5.95E-06 | 5.36E-07 | 7.75E-06 | 4.81E-06 | 4.81E-06 | 2.38E-06 |
| 2994 | 257896.63 | 4086642.3 | 6.41E-06 | 9.27E-05 | 6.84E-05 | 6.84E-05 | 3.81E-05 | 9.73E-07 | 1.41E-05 | 1.07E-05 | 1.07E-05 | 5.87E-06 | 5.29E-07 | 7.64E-06 | 4.75E-06 | 4.75E-06 | 2.35E-06 |
| 2995 | 257920.91 | 4086641.23 | 6.32E-06 | 9.14E-06 | 6.74E-05 | 6.74E-05 | 3.76E-05 | 9.59E-07 | 1.39E-05 | 1.05E-05 | 1.05E-05 | 5.78E-06 | 5.21E-07 | 7.53E-06 | 4.68E-06 | 4.68E-06 | 2.32E-06 |
| 2996 | 257945.19 | 4086640.15 | 6.22E-06 | 8.99E-05 | 6.63E-05 | 6.63E-05 | 3.70E-05 | 9.44E-07 | 1.37E-06 | 1.04E-05 | 1.04E-06 | 5.69E-06 | 5.13E-07 | 7.41E-06 | 4.61E-06 | 4.61E-06 | 2.28E-06 |
| 2997 | 257969.48 | 4086639.07 | 6.11E-06 | 8.84E-05 | 6.52E-05 | 6.52E-05 | 3.63E-05 | 9.28E-07 | 1.35E-05 | 1.02E-05 | 1.02E-06 | 5.59E-06 | 5.04E-07 | 7.29E-06 | 4.53E-06 | 4.53E-06 | 2.24E-06 |
| 2998 | 257993.76 | 4086638 | 6.00E-06 | 8.68E-05 | 6.40E-05 | 6.40E-05 | 3.57E-05 | 9.11E-07 | 1.32E-06 | 9.99E-06 | 9.99E-06 | 5.49E-06 | 4.95E-07 | 7.15E-06 | 4.44E-06 | 4.44E-06 | 2.20E-06 |
| 2999 | 258018.04 | 4086636.92 | 5.88E-06 | 8.51E-05 | 6.27E-05 | 6.27E-05 | 3.50E-05 | 8.93E-07 | 1.30E-05 | 9.79E-06 | 9.79E-06 | 5.38E-06 | 4.85E-07 | 7.01E-06 | 4.36E-06 | 4.36E-06 | 2.16E-06 |
| 3000 | 258042.32 | 4086635.85 | 5.76E-06 | 8.33E-05 | 6.14E-05 | 6.14E-05 | 3.42E-05 | 8.74E-07 | 1.27E-05 | 9.59E-06 | 9.59E-06 | 5.27E-06 | 4.75E-07 | 6.87E-06 | 4.27E-06 | 4.27E-06 | 2.11E-06 |
| 3001 | 258066.6 | 4086634.77 | 5.64E-06 | 8.16E-05 | 6.01E-05 | 6.01E-05 | 3.35E-05 | 8.56E-07 | 1.24E-06 | 9.39E-06 | 9.39E-06 | 5.16E-06 | 4.65E-07 | 6.72E-06 | 4.18E-06 | 4.18E-06 | 2.07E-06 |
| 3002 | 258090.89 | 4086633.7 | 5.52E-06 | 7.98E-05 | 5.88E-05 | 5.88E-05 | 3.28E-05 | 8.38E-07 | 1.22E-05 | 9.19E-06 | 9.19E-06 | 5.05E-06 | 4.55E-07 | 6.58E-06 | 4.09E-06 | 4.09E-06 | 2.02E-06 |
| 3003 | 258115.17 | 4086632.62 | 5.40E-06 | 7.82E-05 | 5.76E-05 | 5.76E-05 | 3.21E-05 | 8.20E-07 | 1.19E-05 | 8.99E-06 | 8.99E-06 | 4.94E-06 | 4.45E-07 | 6.44E-06 | 4.00E-06 | 4.00E-06 | 1.98E-06 |
| 3004 | 258139.45 | 4086631.55 | 5.29E-06 | 7.66E-05 | 5.64E-05 | 5.64E-05 | 3.15E-05 | 8.03E-07 | 1.17E-05 | 8.81E-06 | 8.81E-06 | 4.84E-06 | 4.36E-07 | 6.31E-06 | 3.92E-06 | 3.92E-06 | 1.94E-06 |
| 3005 | 258163.73 | 4086630.47 | 5.19E-06 | 7.51E-05 | 5.53E-05 | 5.53E-05 | 3.08E-05 | 7.88E-07 | 1.14E-05 | 8.64E-06 | 8.64E-06 | 4.75E-06 | 4.28E-07 | 6.19E-06 | 3.84E-06 | 3.84E-06 | 1.90E-06 |
| 3006 | 258188.01 | 4086629.4 | 5.10E-06 | 7.37E-05 | 5.43E-05 | 5.43E-05 | 3.03E-05 | 7.73E-07 | 1.12E-05 | 8.48E-06 | 8.48E-06 | 4.66E-06 | 4.20E-07 | 6.08E-06 | 3.77E-06 | 3.77E-06 | 1.87E-06 |
| 3007 | 258212.29 | 4086628.32 | 5.01E-06 | 7.24E-05 | 5.34E-05 | 5.34E-05 | 2.98E-05 | 7.60E-07 | 1.10E-05 | 8.34E-06 | 8.34E-06 | 4.58E-06 | 4.13E-07 | 5.97E-06 | 3.71E-06 | 3.71E-06 | 1.84E-06 |
| 3008 | 258236.58 | 4086627.24 | 4.93E-06 | 7.12E-05 | 5.25E-05 | 5.25E-05 | 2.93E-05 | 7.48E-07 | 1.09E-05 | 8.20E-06 | 8.20E-06 | 4.51E-06 | 4.06E-07 | 5.87E-06 | 3.65E-06 | 3.65E-06 | 1.81E-06 |
| 3009 | 258260.86 | 4086626.17 | 4.85E-06 | 7.01E-06 | 5.17E-05 | 5.17E-05 | 2.88E-05 | 7.36E-07 | 1.07E-05 | 8.07E-06 | 8.07E-06 | 4.44E-06 | 4.00E-07 | 5.78E-06 | 3.59E-06 | 3.59E-06 | 1.78E-06 |
| 3010 | 258285.14 | 4086625.09 | 4.77E-06 | 6.91E-05 | 5.09E-05 | 5.09E-05 | 2.84E-05 | 7.25E-07 | 1.05E-05 | 7.95E-06 | 7.95E-06 | 4.37E-06 | 3.94E-07 | 5.69E-06 | 3.54E-06 | 3.54E-06 | 1.75E-06 |
| 3011 | 258309.42 | 4086624.02 | 4.70E-06 | 6.80E-06 | 5.01E-05 | 5.01E-05 | 2.79E-05 | 7.14E-07 | 1.04E-05 | 7.83E-06 | 7.83E-06 | 4.30E-06 | 3.88E-07 | 5.61E-06 | 3.48E-06 | 3.48E-06 | 1.72E-06 |
| 3012 | 258333.7 | 4086622.94 | 4.63E-06 | 6.70E-05 | 4.94E-05 | 4.94E-05 | 2.75E-05 | 7.03E-07 | 1.02E-05 | 7.71E-06 | 7.71E-06 | 4.24E-06 | 3.82E-07 | 5.52E-06 | 3.43E-06 | 3.43E-06 | 1.70E-06 |
| 3013 | 258357.99 | 4086621.87 | 4.56E-06 | 6.60E-05 | 4.86E-05 | 4.86E-05 | 2.71E-05 | 6.92E-07 | 1.01E-05 | 7.59E-06 | 7.59E-06 | 4.17E-06 | 3.76E-07 | 5.44E-06 | 3.38E-06 | 3.38E-06 | 1.67E-06 |
| 3014 | 258382.27 | 4086620.79 | 4.49E-06 | 6.50E-05 | 4.79E-05 | 4.79E-05 | 2.67E-05 | 6.82E-07 | 9.90E-06 | 7.48E-06 | 7.48E-06 | 4.11E-06 | 3.70E-07 | 5.36E-06 | 3.33E-06 | 3.33E-06 | 1.65E-06 |
| 3015 | 258406.55 | 4086619.72 | 4.42E-06 | 6.40E-05 | 4.72E-05 | 4.72E-05 | 2.63E-05 | 6.71E-07 | 9.75E-06 | 7.36E-06 | 7.36E-06 | 4.05E-06 | 3.65E-07 | 5.27E-06 | 3.28E-06 | 3.28E-06 | 1.62E-06 |
| 3016 | 258430.83 | 4086618.64 | 4.35E-06 | 6.30E-05 | 4.64E-05 | 4.64E-05 | 2.59E-05 | 6.61E-07 | 9.59E-06 | 7.25E-06 | 7.25E-06 | 3.98E-06 | 3.59E-07 | 5.19E-06 | 3.22E-06 | 3.22E-06 | 1.60E-06 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2832 | 256492.95 | 4085700.81 | 1.06E-05 | 1.53E-04 | 1.13E-04 | 1.13E-04 | 6.29E-05 | 1.61E-06 | 2.33E-05 | 1.76E-05 | 1.76E-05 | 9.68E-06 | 8.72E-07 | 1.26E-05 | 7.84E-06 | 7.84E-06 | 3.88E-06 |
| 2833 | 256483 | 4085679.2 | 1.00E-05 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.97E-05 | 1.53E-06 | 2.21E-05 | 1.67E-05 | 1.67E-05 | 9.20E-06 | 8.28E-07 | 1.20E-05 | 7.44E-06 | 7.44E-06 | 3.68E-06 |
| 2834 | 256473.04 | 4085657.58 | 9.50E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.65E-05 | 1.44E-06 | 2.09E-05 | 1.58E-05 | 1.58E-05 | 8.70E-06 | 7.83E-07 | 1.13E-05 | 7.04E-06 | 7.04E-06 | 3.48E-06 |
| 2835 | 256463.09 | 4085635.97 | 8.96E-06 | 1.30E-04 | 9.55E-05 | 9.55E-05 | 5.33E-05 | 1.36E-06 | 1.97E-05 | 1.49E-05 | 1.49E-05 | 8.20E-06 | 7.39E-07 | 1.07E-05 | 6.64E-06 | 6.64E-06 | 3.28E-06 |
| 2836 | 256453.14 | 4085614.36 | 8.43E-06 | 1.22E-04 | 8.99E-05 | 8.99E-05 | 5.01E-05 | 1.28E-06 | 1.86E-05 | 1.40E-05 | 1.40E-05 | 7.72E-06 | 6.95E-07 | 1.01E-05 | 6.24E-06 | 6.24E-06 | 3.09E-06 |
| 2837 | 256443.19 | 4085592.75 | 7.93E-06 | 1.15E-04 | 8.46E-05 | 8.46E-05 | 4.71E-05 | 1.20E-06 | 1.75E-05 | 1.32E-05 | 1.32E-05 | 7.26E-06 | 6.54E-07 | 9.46E-06 | 5.87E-06 | 5.87E-06 | 2.91E-06 |
| 2838 | 256433.24 | 4085571.14 | 7.47E-06 | 1.08E-04 | 7.96E-05 | 7.96E-05 | 4.44E-05 | 1.13E-06 | 1.65E-05 | 1.24E-05 | 1.24E-05 | 6.84E-06 | 6.16E-07 | 8.91E-06 | 5.53E-06 | 5.53E-06 | 2.74E-06 |
| 2839 | 256423.28 | 4085549.52 | 7.06E-06 | 1.02E-04 | 7.52E-05 | 7.52E-05 | 4.19E-05 | 1.07E-06 | 1.55E-05 | 1.17E-05 | 1.17E-05 | 6.46E-06 | 5.82E-07 | 8.41E-06 | 5.22E-06 | 5.22E-06 | 2.59E-06 |
| 2840 | 256413.33 | 4085527.91 | 6.69E-06 | 9.68E-05 | 7.13E-05 | 7.13E-05 | 3.98E-05 | 1.02E-06 | 1.47E-05 | 1.11E-05 | 1.11E-05 | 6.12E-06 | 5.52E-07 | 7.98E-06 | 4.96E-06 | 4.96E-06 | 2.45E-06 |
| 2841 | 256403.38 | 4085506.3 | 6.38E-06 | 9.23E-05 | 6.80E-05 | 6.80E-05 | 3.79E-05 | 9.68E-07 | 1.41E-05 | 1.06E-05 | 1.06E-05 | 5.84E-06 | 5.26E-07 | 7.60E-06 | 4.72E-06 | 4.72E-06 | 2.34E-06 |
| 2842 | 256393.43 | 4085484.69 | 6.12E-06 | 8.85E-05 | 6.52E-05 | 6.52E-05 | 3.64E-05 | 9.28E-07 | 1.35E-05 | 1.02E-05 | 1.02E-05 | 5.60E-06 | 5.04E-07 | 7.29E-06 | 4.53E-06 | 4.53E-06 | 2.24E-06 |
| 2843 | 256383.48 | 4085463.08 | 5.90E-06 | 8.53E-05 | 6.28E-05 | 6.28E-05 | 3.50E-05 | 8.95E-07 | 1.30E-05 | 9.81E-06 | 9.81E-06 | 5.39E-06 | 4.86E-07 | 7.03E-06 | 4.37E-06 | 4.37E-06 | 2.16E-06 |
| 2844 | 256373.52 | 4085441.47 | 5.71E-06 | 8.26E-05 | 6.09E-05 | 6.09E-05 | 3.39E-05 | 8.66E-07 | 1.26E-05 | 9.50E-06 | 9.50E-06 | 5.22E-06 | 4.71E-07 | 6.81E-06 | 4.23E-06 | 4.23E-06 | 2.09E-06 |
| 2845 | 256363.57 | 4085419.85 | 5.55E-06 | 8.03E-06 | 5.92E-05 | 5.92E-05 | 3.30E-05 | 8.42E-07 | 1.22E-05 | 9.24E-06 | 9.24E-06 | 5.08E-06 | 4.58E-07 | 6.62E-06 | 4.11E-06 | 4.11E-06 | 2.03E-06 |
| 2846 | 256353.62 | 4085398.24 | 5.41E-06 | 7.83E-05 | 5.77E-05 | 5.77E-05 | 3.22E-05 | 8.21E-07 | 1.19E-05 | 9.01E-06 | 9.01E-06 | 4.95E-06 | 4.46E-07 | 6.45E-06 | 4.01E-06 | 4.01E-06 | 1.98E-06 |
| 2847 | 256343.67 | 4085376.63 | 5.28E-06 | 7.64E-05 | 5.63E-05 | 5.63E-05 | 3.14E-05 | 8.02E-07 | 1.16E-05 | 8.80E-06 | 8.80E-06 | 4.84E-06 | 4.36E-07 | 6.30E-06 | 3.91E-06 | 3.91E-06 | 1.94E-06 |
| 2848 | 256333.72 | 4085355.02 | 5.17E-06 | 7.47E-05 | 5.51E-05 | 5.51E-05 | 3.07E-05 | 7.84E-07 | 1.14E-05 | 8.60E-06 | 8.60E-06 | 4.73E-06 | 4.26E-07 | 6.16E-06 | 3.83E-06 | 3.83E-06 | 1.89E-06 |
| 2849 | 256323.76 | 4085333.41 | 5.05E-06 | 7.31E-05 | 5.38E-05 | 5.38E-05 | 3.00E-05 | 7.67E-07 | 1.11E-05 | 8.41E-06 | 8.41E-06 | 4.62E-06 | 4.16E-07 | 6.02E-06 | 3.74E-06 | 3.74E-06 | 1.85E-06 |
| 2850 | 256313.81 | 4085311.79 | 4.94E-06 | 7.15E-05 | 5.27E-05 | 5.27E-05 | 2.94E-05 | 7.50E-07 | 1.09E-05 | 8.22E-06 | 8.22E-06 | 4.52E-06 | 4.07E-07 | 5.89E-06 | 3.66E-06 | 3.66E-06 | 1.81E-06 |
| 2851 | 256303.86 | 4085290.18 | 4.83E-06 | 6.99E-05 | 5.15E-05 | 5.15E-05 | 2.87E-05 | 7.34E-07 | 1.07E-05 | 8.05E-06 | 8.05E-06 | 4.42E-06 | 3.98E-07 | 5.76E-06 | 3.58E-06 | 3.58E-06 | 1.77E-06 |
| 2852 | 256293.91 | 4085268.57 | 4.73E-06 | 6.85E-05 | 5.05E-05 | 5.05E-05 | 2.81E-05 | 7.18E-07 | 1.04E-05 | 7.88E-06 | 7.88E-06 | 4.33E-06 | 3.90E-07 | 5.64E-06 | 3.51E-06 | 3.51E-06 | 1.74E-06 |
| 2853 | 256283.96 | 4085246.96 | 4.64E-06 | 6.71E-05 | 4.95E-05 | 4.95E-05 | 2.76E-05 | 7.04E-07 | 1.02E-05 | 7.73E-06 | 7.73E-06 | 4.25E-06 | 3.83E-07 | 5.53E-06 | 3.44E-06 | 3.44E-06 | 1.70E-06 |
| 2854 | 256274 | 4085225.35 | 4.56E-06 | 6.59E-05 | 4.86E-05 | 4.86E-05 | 2.71E-05 | 6.92E-07 | 1.00E-06 | 7.59E-06 | 7.59E-06 | 4.17E-06 | 3.76E-07 | 5.44E-06 | 3.38E-06 | 3.38E-06 | 1.67E-06 |
| 2855 | 257620.68 | 4086454.33 | 8.93E-06 | 1.29E-04 | 9.52E-05 | 9.52E-05 | 5.30E-05 | 1.35E-06 | 1.97E-05 | 1.49E-05 | 1.49E-05 | 8.17E-06 | 7.36E-07 | 1.06E-05 | 6.61E-06 | 6.61E-06 | 3.27E-06 |
| 2856 | 257644.96 | 4086453.25 | 8.81E-06 | 1.27E-04 | 9.40E-05 | 9.40E-05 | 5.24E-05 | 1.34E-06 | 1.94E-05 | 1.47E-05 | 1.47E-05 | 8.06E-06 | 7.26E-07 | 1.05E-05 | 6.53E-06 | 6.53E-06 | 3.23E-06 |
| 2857 | 257669.24 | 4086452.18 | 8.70E-06 | 1.26E-04 | 9.28E-05 | 9.28E-05 | 5.17E-05 | 1.32E-06 | 1.92E-05 | 1.45E-05 | 1.45E-05 | 7.96E-06 | 7.17E-07 | 1.04E-05 | 6.44E-06 | 6.44E-06 | 3.19E-06 |
| 2858 | 257693.53 | 4086451.1 | 8.58E-06 | 1.24E-04 | 9.15E-05 | 9.15E-05 | 5.10E-05 | 1.30E-06 | 1.89E-05 | 1.43E-05 | 1.43E-05 | 7.85E-06 | 7.08E-07 | 1.02E-05 | 6.36E-06 | 6.36E-06 | 3.15E-06 |
| 2859 | 257717.81 | 4086450.02 | 8.47E-06 | 1.22E-04 | 9.03E-05 | 9.03E-05 | 5.03E-05 | 1.29E-06 | 1.87E-05 | 1.41E-05 | 1.41E-05 | 7.75E-06 | 6.98E-07 | 1.01E-05 | 6.27E-06 | 6.27E-06 | 3.10E-06 |
| 2860 | 257742.09 | 4086448.95 | 8.35E-06 | 1.21E-04 | 8.90E-05 | 8.90E-05 | 4.96E-05 | 1.27E-06 | 1.84E-05 | 1.39E-05 | 1.39E-05 | 7.64E-06 | 6.88E-07 | 9.95E-06 | 6.18E-06 | 6.18E-06 | 3.06E-06 |
| 2861 | 257768.37 | 4086447.87 | 8.25E-06 | 1.19E-04 | 8.79E-05 | 8.79E-05 | 4.90E-05 | 1.25E-06 | 1.82E-05 | 1.37E-05 | 1.37E-05 | 7.55E-06 | 6.80E-07 | 9.84E-06 | 6.11E-06 | 6.11E-06 | 3.02E-06 |
| 2862 | 257790.65 | 4086446.8 | 8.15E-06 | 1.18E-04 | 8.69E-05 | 8.69E-05 | 4.84E-05 | 1.24E-06 | 1.80E-05 | 1.36E-05 | 1.36E-05 | 7.46E-06 | 6.72E-07 | 9.72E-06 | 6.04E-06 | 6.04E-06 | 2.99E-06 |
| 2863 | 257814.94 | 4086445.72 | 8.05E-06 | 1.16E-04 | 8.58E-05 | 8.58E-05 | 4.79E-05 | 1.22E-06 | 1.77E-05 | 1.34E-05 | 1.34E-05 | 7.37E-06 | 6.64E-07 | 9.60E-06 | 5.96E-06 | 5.96E-06 | 2.95E-06 |
| 2864 | 257839.22 | 4086444.65 | 7.95E-06 | 1.15E-04 | 8.48E-05 | 8.48E-05 | 4.73E-05 | 1.21E-06 | 1.75E-05 | 1.32E-05 | 1.32E-05 | 7.28E-06 | 6.56E-07 | 9.48E-06 | 5.89E-06 | 5.89E-06 | 2.92E-06 |
| 2865 | 257863.5 | 4086443.57 | 7.85E-06 | 1.14E-04 | 8.37E-05 | 8.37E-05 | 4.67E-05 | 1.19E-06 | 1.73E-05 | 1.31E-05 | 1.31E-05 | 7.18E-06 | 6.47E-07 | 9.36E-06 | 5.81E-06 | 5.81E-06 | 2.88E-06 |
| 2866 | 257887.78 | 4086442.5 | 7.74E-06 | 1.12E-04 | 8.25E-05 | 8.25E-05 | 4.60E-05 | 1.17E-06 | 1.71E-05 | 1.29E-05 | 1.29E-05 | 7.08E-06 | 6.38E-07 | 9.23E-06 | 5.73E-06 | 5.73E-06 | 2.84E-06 |
| 2867 | 257912.06 | 4086441.42 | 7.63E-06 | 1.10E-04 | 8.13E-05 | 8.13E-05 | 4.53E-05 | 1.16E-06 | 1.68E-05 | 1.27E-05 | 1.27E-05 | 6.98E-06 | 6.29E-07 | 9.10E-06 | 5.65E-06 | 5.65E-06 | 2.80E-06 |
| 2868 | 257936.34 | 4086440.35 | 7.51E-06 | 1.09E-04 | 8.00E-05 | 8.00E-05 | 4.46E-05 | 1.14E-06 | 1.65E-05 | 1.25E-05 | 1.25E-05 | 6.87E-06 | 6.19E-07 | 8.95E-06 | 5.56E-06 | 5.56E-06 | 2.75E-06 |
| 2869 | 257960.63 | 4086439.27 | 7.38E-06 | 1.07E-04 | 7.87E-05 | 7.87E-05 | 4.39E-05 | 1.12E-06 | 1.63E-05 | 1.23E-06 | 1.23E-06 | 6.75E-06 | 6.08E-07 | 8.80E-06 | 5.46E-06 | 5.46E-06 | 2.70E-06 |
| 2870 | 257984.91 | 4086438.19 | 7.24E-06 | 1.05E-04 | 7.72E-05 | 7.72E-05 | 4.31E-05 | 1.10E-06 | 1.60E-05 | 1.21E-05 | 1.21E-05 | 6.63E-06 | 5.97E-07 | 8.64E-06 | 5.36E-06 | 5.36E-06 | 2.66E-06 |
| 2871 | 258009.19 | 4086437.12 | 7.10E-06 | 1.03E-04 | 7.57E-05 | 7.57E-05 | 4.22E-05 | 1.08E-06 | 1.56E-05 | 1.18E-05 | 1.18E-05 | 6.50E-06 | 5.85E-07 | 8.47E-06 | 5.26E-06 | 5.26E-06 | 2.60E-06 |
| 2872 | 258033.47 | 4086436.04 | 6.96E-06 | 1.01E-04 | 7.42E-05 | 7.42E-05 | 4.14E-05 | 1.06E-06 | 1.53E-05 | 1.16E-05 | 1.16E-05 | 6.37E-06 | 5.74E-07 | 8.30E-06 | 5.15E-06 | 5.15E-06 | 2.55E-06 |
| 2873 | 258057.75 | 4086434.97 | 6.82E-06 | 9.86E-05 | 7.27E-05 | 7.27E-05 | 4.05E-05 | 1.03E-06 | 1.50E-05 | 1.13E-05 | 1.13E-05 | 6.24E-06 | 5.62E-07 | 8.13E-06 | 5.05E-06 | 5.05E-06 | 2.50E-06 |
| 2874 | 258082.04 | 4086433.89 | 6.67E-06 | 9.65E-05 | 7.11E-05 | 7.11E-05 | 3.97E-05 | 1.01E-06 | 1.47E-05 | 1.11E-05 | 1.11E-05 | 6.11E-06 | 5.50E-07 | 7.95E-06 | 4.94E-06 | 4.94E-06 | 2.45E-06 |
| 2875 | 258106.32 | 4086432.82 | 6.53E-06 | 9.45E-06 | 6.96E-05 | 6.96E-05 | 3.88E-05 | 9.91E-07 | 1.44E-05 | 1.09E-05 | 1.09E-05 | 5.98E-06 | 5.38E-07 | 7.79E-06 | 4.84E-06 | 4.84E-06 | 2.39E-06 |
| 2876 | 258130.6 | 4086431.74 | 6.40E-06 | 9.26E-05 | 6.82E-05 | 6.82E-05 | 3.80E-05 | 9.72E-07 | 1.41E-05 | 1.07E-05 | 1.07E-05 | 5.86E-06 | 5.28E-07 | 7.63E-06 | 4.74E-06 | 4.74E-06 | 2.35E-06 |
| 2877 | 258154.88 | 4086430.67 | 6.28E-06 | 9.08E-06 | 6.69E-06 | 6.69E-05 | 3.73E-05 | 9.53E-07 | 1.38E-05 | 1.05E-05 | 1.05E-05 | 5.75E-06 | 5.18E-07 | 7.49E-06 | 4.65E-06 | 4.65E-06 | 2.30E-06 |
| 2878 | 258179.16 | 4086429.59 | 6.16E-06 | 8.91E-05 | 6.57E-05 | 6.57E-05 | 3.66E-05 | 9.35E-07 | 1.36E-05 | 1.03E-05 | 1.03E-05 | 5.64E-06 | 5.08E-07 | 7.35E-06 | 4.56E-06 | 4.56E-06 | 2.26E-06 |
| 2879 | 258203.44 | 4086428.52 | 6.06E-06 | 8.76E-05 | 6.45E-05 | 6.45E-05 | 3.60E-05 | 9.19E-07 | 1.33E-05 | 1.01E-05 | 1.01E-05 | 5.54E-06 | 4.99E-07 | 7.22E-06 | 4.48E-06 | 4.48E-06 | 2.22E-06 |
| 2880 | 258227.73 | 4086427.44 | 5.95E-06 | 8.61E-05 | 6.35E-05 | 6.35E-05 | 3.54E-05 | 9.03E-07 | 1.31E-05 | 9.91E-06 | 9.91E-06 | 5.45E-06 | 4.91E-07 | 7.10E-06 | 4.41E-06 | 4.41E-06 | 2.16E-06 |
| 2881 | 258252.01 | 4086426.36 | 5.85E-06 | 8.47E-05 | 6.24E-05 | 6.24E-05 | 3.48E-05 | 8.89E-07 | 1.29E-06 | 9.74E-06 | 9.74E-06 | 5.36E-06 | 4.83E-07 | 6.98E-06 | 4.34E-06 | 4.34E-06 | 2.15E-06 |
| 2882 | 258276.29 | 4086425.29 | 5.75E-06 | 8.32E-05 | 6.13E-05 | 6.13E-05 | 3.42E-05 | 8.73E-07 | 1.27E-05 | 9.58E-06 | 9.58E-06 | 5.27E-06 | 4.74E-07 | 6.86E-06 | 4.26E-06 | 4.26E-06 | 2.11E-06 |
| 2883 | 258300.57 | 4086424.21 | 5.65E-06 | 8.17E-05 | 6.02E-05 | 6.02E-05 | 3.36E-05 | 8.58E-07 | 1.25E-05 | 9.41E-06 | 9.41E-06 | 5.17E-06 | 4.68E-07 | 6.74E-06 | 4.19E-06 | 4.19E-06 | 2.07E-06 |
| 2884 | 258324.85 | 4086423.14 | 5.55E-06 | 8.02E-05 | 5.91E-05 | 5.91E-05 | 3.30E-05 | 8.42E-07 | 1.22E-05 | 9.23E-06 | 9.23E-06 | 5.08E-06 | 4.57E-07 | 6.61E-06 | 4.11E-06 | 4.11E-06 | 2.03E-06 |
| 2885 | 258349.14 | 4086422.06 | 5.44E-06 | 7.87E-05 | 5.80E-05 | 5.80E-05 | 3.23E-05 | 8.26E-07 | 1.20E-05 | 9.06E-06 | 9.06E-06 | 4.98E-06 | 4.48E-07 | 6.49E-06 | 4.03E-06 | 4.03E-06 | 1.99E-06 |
| 2886 | 258373.42 | 4086420.99 | 5.33E-06 | 7.71E-05 | 5.68E-05 | 5.68E-05 | 3.17E-05 | 8.09E-07 | 1.17E-05 | 8.87E-06 | 8.87E-06 | 4.88E-06 | 4.39E-07 | 6.36E-06 | 3.95E-06 | 3.95E-06 | 1.95E-06 |
| 2887 | 258397.7 | 4086419.91 | 5.22E-06 | 7.55E-05 | 5.57E-05 | 5.57E-05 | 3.10E-05 | 7.93E-07 | 1.15E-05 | 8.69E-06 | 8.69E-06 | 4.78E-06 | 4.31E-07 | 6.23E-06 | 3.87E-06 | 3.87E-06 | 1.91E-06 |
| 2888 | 258421.98 | 4086418.84 | 5.11E-06 | 7.40E-05 | 5.45E-05 | 5.45E-05 | 3.04E-05 | 7.76E-07 | 1.13E-06 | 8.51E-06 | 8.51E-06 | 4.68E-06 | 4.22E-07 | 6.10E-06 | 3.79E-06 | 3.79E-06 | 1.87E-06 |
| 2889 | 257606.97 | 4086645.89 | 7.27E-06 | 1.05E-04 | 7.75E-05 | 7.75E-05 | 4.32E-05 | 1.10E-06 | 1.60E-05 | 1.21E-05 | 1.21E-05 | 6.65E-06 | 5.99E-07 | 8.66E-06 | 5.38E-06 | 5.38E-06 | 2.66E-06 |
| 2890 | 257584.4 | 4086637.65 | 7.40E-06 | 1.07E-04 | 7.89E-05 | 7.89E-05 | 4.40E-05 | 1.12E-06 | 1.63E-05 | 1.23E-05 | 1.23E-05 | 6.77E-06 | 6.10E-07 | 8.83E-06 | 5.48E-06 | 5.48E-06 | 2.71E-06 |
| 2891 | 257561.84 | 4086629.4 | 7.55E-06 | 1.09E-04 | 8.05E-05 | 8.05E-05 | 4.49E-05 | 1.15E-06 | 1.66E-05 | 1.26E-05 | 1.26E-05 | 6.91E-06 | 6.22E-07 | 9.00E-06 | 5.59E-06 | 5.59E-06 | 2.77E-06 |
| 2892 | 257539.28 | 4086621.16 | 7.70E-06 | 1.11E-04 | 8.20E-05 | 8.20E-06 | 4.57E-06 | 1.17E-06 | 1.70E-05 | 1.28E-05 | 1.28E-05 | 7.04E-06 | 6.34E-07 | 9.18E-06 | 5.70E-06 | 5.70E-06 | 2.82E-06 |
| 2893 | 257516.71 | 4086612.92 | 7.85E-06 | 1.14E-04 | 8.37E-05 | 8.37E-06 | 4.67E-05 | 1.19E-06 | 1.73E-05 | 1.31E-05 | 1.31E-05 | 7.18E-06 | 6.47E-07 | 9.36E-06 | 5.81E-06 | 5.81E-06 | 2.88E-06 |
| 2894 | 257494.15 | 4086604.68 | 8.01E-06 | 1.16E-04 | 8.53E-05 | 8.53E-05 | 4.76E-05 | 1.22E-06 | 1.76E-05 | 1.33E-06 | 1.33E-05 | 7.33E-06 | 6.60E-07 | 9.54E-06 | 5.93E-06 | 5.93E-06 | 2.93E-06 |
| 2895 | 257471.59 | 4086596.43 | 8.16E-06 | 1.18E-04 | 8.70E-05 | 8.70E-05 | 4.85E-05 | 1.24E-06 | 1.80E-05 | 1.36E-05 | 1.36E-05 | 7.47E-06 | 6.73E-07 | 9.73E-06 | 6.04E-06 | 6.04E-06 | 2.99E-06 |
| 2896 | 257449.02 | 4086588.19 | 8.32E-06 | 1.20E-04 | 8.86E-05 | 8.86E-05 | 4.94E-05 | 1.26E-06 | 1.83E-05 | 1.38E-05 | 1.38E-05 | 7.61E-06 | 6.85E-07 | 9.91E-06 | 6.16E-06 | 6.16E-06 | 3.05E-06 |
| 2897 | 257426.46 | 4086579.95 | 8.46E-06 | 1.22E-04 | 9.02E-05 | 9.02E-05 | 5.03E-05 | 1.28E-06 | 1.86E-05 | 1.41E-05 | 1.41E-05 | 7.74E-06 | 6.98E-07 | 1.01E-05 | 6.27E-06 | 6.27E-06 | 3.10E-06 |
| 2898 | 257403.89 | 4086571.7 | 8.60E-06 | 1.24E-04 | 9.17E-05 | 9.17E-05 | 5.11E-05 | 1.31E-06 | 1.90E-05 | 1.43E-06 | 1.43E-05 | 7.87E-06 | 7.09E-07 | 1.03E-05 | 6.37E-06 | 6.37E-06 | 3.15E-06 |
| 2899 | 257381.33 | 4086563.46 | 8.74E-06 | 1.26E-04 | 9.31E-05 | 9.31E-05 | 5.19E-05 | 1.33E-06 | 1.93E-05 | 1.45E-05 | 1.45E-05 | 8.00E-06 | 7.20E-07 | 1.04E-05 | 6.47E-06 | 6.47E-06 | 3.20E-06 |
| 2900 | 257358.77 | 4086555.22 | 8.86E-06 | 1.28E-04 | 9.44E-05 | 9.44E-05 | 5.26E-05 | 1.34E-06 | 1.95E-05 | 1.47E-05 | 1.47E-05 | 8.11E-06 | 7.30E-07 | 1.06E-05 | 6.56E-06 | 6.56E-06 | 3.25E-06 |
| 2901 | 257336.2 | 4086546.98 | 8.97E-06 | 1.30E-04 | 9.56E-05 | 9.56E-05 | 5.33E-05 | 1.36E-06 | 1.98E-05 | 1.49E-05 | 1.49E-05 | 8.21E-06 | 7.39E-07 | 1.07E-05 | 6.64E-06 | 6.64E-06 | 3.29E-06 |
| 2902 | 257313.64 | 4086538.73 | 9.07E-06 | 1.31E-04 | 9.67E-05 | 9.67E-05 | 5.39E-05 | 1.38E-06 | 2.00E-05 | 1.51E-05 | 1.51E-05 | 8.30E-06 | 7.48E-07 | 1.08E-05 | 6.72E-06 | 6.72E-06 | 3.33E-06 |
| 2903 | 257291.08 | 4086530.49 | 9.17E-06 | 1.33E-04 | 9.78E-05 | 9.78E-05 | 5.45E-05 | 1.39E-06 | 2.02E-05 | 1.53E-05 | 1.53E-05 | 8.39E-06 | 7.56E-07 | 1.09E-05 | 6.79E-06 | 6.79E-06 | 3.36E-06 |
| 2904 | 257268.51 | 4086522.25 | 9.26E-06 | 1.34E-04 | 9.87E-05 | 9.87E-05 | 5.50E-05 | 1.41E-06 | 2.04E-05 | 1.54E-05 | 1.54E-06 | 8.48E-06 | 7.63E-07 | 1.10E-05 | 6.86E-06 | 6.86E-06 | 3.40E-06 |
| 2905 | 257245.95 | 4086514.01 | 9.36E-06 | 1.35E-04 | 9.98E-05 | 9.98E-05 | 5.56E-05 | 1.42E-06 | 2.06E-05 | 1.56E-05 | 1.56E-05 | 8.56E-06 | 7.71E-07 | 1.12E-05 | 6.93E-06 | 6.93E-06 | 3.43E-06 |
| 2906 | 257223.39 | 4086505.76 | 9.46E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.62E-05 | 1.44E-06 | 2.08E-05 | 1.58E-05 | 1.58E-06 | 8.66E-06 | 7.80E-07 | 1.13E-05 | 7.01E-06 | 7.01E-06 | 3.47E-06 |
| 2907 | 257200.82 | 4086497.52 | 9.56E-06 | 1.38E-04 | 1.02E-04 | 1.02E-04 | 5.68E-05 | 1.45E-06 | 2.11E-05 | 1.59E-05 | 1.59E-05 | 8.75E-06 | 7.88E-07 | 1.14E-05 | 7.08E-06 | 7.08E-06 | 3.50E-06 |
| 2908 | 257178.26 | 4086489.28 | 9.65E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.73E-05 | 1.46E-06 | 2.13E-06 | 1.61E-05 | 1.61E-05 | 8.83E-06 | 7.95E-07 | 1.15E-05 | 7.14E-06 | 7.14E-06 | 3.54E-06 |
| 2909 | 257155.7 | 4086481.04 | 9.74E-06 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.79E-05 | 1.48E-06 | 2.15E-06 | 1.62E-05 | 1.62E-05 | 8.91E-06 | 8.03E-07 | 1.16E-05 | 7.21E-06 | 7.21E-06 | 3.57E-06 |
| 2910 | 257133.13 | 4086472.79 | 9.83E-06 | 1.42E-04 | 1.05E-04 | 1.05E-04 | 5.84E-05 | 1.49E-06 | 2.17E-06 | 1.64E-05 | 1.64E-05 | 9.00E-06 | 8.10E-07 | 1.17E-05 | 7.28E-06 | 7.28E-06 | 3.60E-06 |
| 2911 | 257110.57 | 4086464.55 | 9.92E-06 | 1.43E-04 | 1.06E-04 | 1.06E-04 | 5.90E-05 | 1.51E-06 | 2.19E-05 | 1.65E-05 | 1.65E-05 | 9.08E-06 | 8.18E-07 | 1.18E-05 | 7.35E-06 | 7.35E-06 | 3.64E-06 |
| 2912 | 257088 | 4086456.31 | 1.00E-05 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.95E-05 | 1.52E-06 | 2.21E-05 | 1.67E-05 | 1.67E-05 | 9.16E-06 | 8.25E-07 | 1.19E-05 | 7.41E-06 | 7.41E-06 | 3.67E-06 |
| 2913 | 257065.44 | 4086448.07 | 1.01E-05 | 1.46E-04 | 1.08E-04 | 1.08E-04 | 6.00E-05 | 1.53E-06 | 2.22E-05 | 1.68E-05 | 1.68E-05 | 9.23E-06 | 8.32E-07 | 1.20E-05 | 7.47E-06 | 7.47E-06 | 3.70E-06 |
| 2914 | 257042.88 | 4086439.82 | 1.02E-05 | 1.47E-04 | 1.08E-04 | 1.08E-04 | 6.04E-05 | 1.54E-06 | 2.24E-05 | 1.69E-05 | 1.69E-05 | 9.30E-06 | 8.38E-07 | 1.21E-05 | 7.53E-06 | 7.53E-06 | 3.73E-06 |
| 2915 | 257020.31 | 4086431.58 | 1.02E-05 | 1.48E-04 | 1.09E-04 | 1.09E-04 | 6.08E-05 | 1.55E-06 | 2.25E-05 | 1.70E-05 | 1.70E-05 | 9.36E-06 | 8.43E-07 | 1.22E-05 | 7.58E-06 | 7.58E-06 | 3.75E-06 |
| 2916 | 256997.75 | 4086423.34 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.11E-05 | 1.56E-06 | 2.27E-05 | 1.71E-05 | 1.71E-05 | 9.42E-06 | 8.48E-07 | 1.23E-05 | 7.62E-06 | 7.62E-06 | 3.77E-06 |
| 2917 | 256975.19 | 4086415.1 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.14E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.45E-06 | 8.51E-07 | 1.23E-05 | 7.65E-06 | 7.65E-06 | 3.79E-06 |
| 2918 | 256952.62 | 4086406.85 | 1.04E-05 | 1.50E-04 | 1.10E-04 | 1.10E-04 | 6.16E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.48E-06 | 8.54E-07 | 1.23E-05 | 7.67E-06 | 7.67E-06 | 3.80E-06 |
| 2919 | 256930.06 | 4086398.61 | 1.04E-05 | 1.50E-04 | 1.11E-04 | 1.11E-04 | 6.16E-05 | 1.57E-06 | 2.29E-05 | 1.73E-05 | 1.73E-05 | 9.49E-06 | 8.55E-07 | 1.24E-05 | 7.68E-06 | 7.68E-06 | 3.80E-06 |
| 2920 | 256907.5 | 4086390.37 | 1.04E-05 | 1.50E-04 | 1.11E-04 | 1.11E-04 | 6.16E-05 | 1.57E-06 | 2.29E-05 | 1.73E-05 | 1.73E-05 | 9.49E-06 | 8.55E-07 | 1.24E-05 | 7.68E-06 | 7.68E-06 | 3.80E-06 |
| 2921 | 256884.93 | 4086382.13 | 1.04E-05 | 1.50E-04 | 1.11E-04 | 1.11E-04 | 6.16E-05 | 1.57E-06 | 2.28E-05 | 1.73E-06 | 1.73E-06 | 9.49E-06 | 8.54E-07 | 1.24E-05 | 7.68E-06 | 7.68E-06 | 3.80E-06 |
| 2922 | 256862.37 | 4086373.88 | 1.04E-05 | 1.50E-04 | 1.10E-04 | 1.10E-04 | 6.15E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.47E-06 | 8.53E-07 | 1.23E-05 | 7.67E-06 | 7.67E-06 | 3.79E-06 |
| 2923 | 256839.8 | 4086365.64 | 1.03E-05 | 1.50E-04 | 1.10E-04 | 1.10E-04 | 6.14E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.46E-06 | 8.52E-07 | 1.23E-05 | 7.66E-06 | 7.66E-06 | 3.79E-06 |
| 2924 | 256817.24 | 4086357.4 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.14E-05 | 1.57E-06 | 2.27E-05 | 1.72E-05 | 1.72E-05 | 9.45E-06 | 8.51E-07 | 1.23E-05 | 7.65E-06 | 7.65E-06 | 3.78E-06 |
| 2925 | 256794.68 | 4086349.15 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.13E-05 | 1.57E-06 | 2.27E-05 | 1.72E-05 | 1.72E-06 | 9.44E-06 | 8.50E-07 | 1.23E-05 | 7.64E-06 | 7.64E-06 | 3.78E-06 |
| 2926 | 256772.11 | 4086340.91 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.13E-05 | 1.57E-06 | 2.27E-05 | 1.72E-05 | 1.72E-05 | 9.44E-06 | 8.50E-07 | 1.23E-05 | 7.64E-06 | 7.64E-06 | 3.78E-06 |
| 2927 | 256749.55 | 4086332.67 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.13E-05 | 1.57E-06 | 2.27E-05 | 1.72E-05 | 1.72E-05 | 9.44E-06 | 8.51E-07 | 1.23E-05 | 7.64E-06 | 7.64E-06 | 3.78E-06 |
| 2928 | 256726.99 | 4086324.43 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.14E-05 | 1.57E-06 | 2.28E-05 | 1.72E-06 | 1.72E-05 | 9.45E-06 | 8.51E-07 | 1.23E-05 | 7.65E-06 | 7.65E-06 | 3.79E-06 |
| 2929 | 256704.42 | 4086316.18 | 1.03E-05 | 1.50E-04 | 1.10E-04 | 1.10E-04 | 6.15E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.47E-06 | 8.53E-07 | 1.23E-05 | 7.66E-06 | 7.66E-06 | 3.79E-06 |
| 2930 | 256681.86 | 4086307.94 | 1.04E-05 | 1.50E-04 | 1.11E-04 | 1.11E-04 | 6.16E-05 | 1.57E-06 | 2.28E-05 | 1.73E-05 | 1.73E-05 | 9.49E-06 | 8.54E-07 | 1.24E-05 | 7.68E-06 | 7.68E-06 | 3.80E-06 |
| 2931 | 256659.3 | 4086299.7 | 1.04E-05 | 1.50E-04 | 1.11E-04 | 1.11E-04 | 6.17E-05 | 1.58E-06 | 2.29E-05 | 1.73E-05 | 1.73E-05 | 9.51E-06 | 8.56E-07 | 1.24E-05 | 7.69E-06 | 7.69E-06 | 3.81E-06 |
| 2932 | 256636.73 | 4086291.46 | 1.04E-05 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 6.19E-05 | 1.58E-06 | 2.29E-05 | 1.73E-05 | 1.73E-05 | 9.53E-06 | 8.58E-07 | 1.24E-05 | 7.71E-06 | 7.71E-06 | 3.82E-06 |
| 2933 | 256614.17 | 4086283.21 | 1.04E-05 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2727 | 256585.18 | 4085459.66 | 8.10E-06 | 1.17E-04 | 8.64E-05 | 8.64E-05 | 4.82E-05 | 1.23E-06 | 1.79E-05 | 1.35E-05 | 1.35E-05 | 7.41E-06 | 6.68E-07 | 9.66E-06 | 6.00E-06 | 6.00E-06 | 2.97E-06 |
| 2728 | 256575.07 | 4085437.72 | 7.67E-06 | 1.11E-04 | 8.18E-05 | 8.18E-05 | 4.56E-05 | 1.16E-06 | 1.69E-05 | 1.28E-05 | 1.28E-05 | 7.02E-06 | 6.32E-07 | 9.15E-06 | 5.68E-06 | 5.68E-06 | 2.81E-06 |
| 2729 | 256564.97 | 4085415.77 | 7.31E-06 | 1.06E-04 | 7.79E-05 | 7.79E-05 | 4.34E-05 | 1.11E-06 | 1.61E-05 | 1.22E-05 | 1.22E-05 | 6.69E-06 | 6.02E-07 | 8.71E-06 | 5.41E-06 | 5.41E-06 | 2.68E-06 |
| 2730 | 256554.86 | 4085393.83 | 7.01E-06 | 1.01E-04 | 7.47E-05 | 7.47E-05 | 4.16E-05 | 1.06E-06 | 1.54E-05 | 1.17E-05 | 1.17E-05 | 6.41E-06 | 5.77E-07 | 8.35E-06 | 5.19E-06 | 5.19E-06 | 2.57E-06 |
| 2731 | 256544.76 | 4085371.88 | 6.75E-06 | 9.76E-05 | 7.20E-05 | 7.20E-05 | 4.01E-05 | 1.02E-06 | 1.49E-05 | 1.12E-05 | 1.12E-05 | 6.18E-06 | 5.56E-07 | 8.05E-06 | 5.00E-06 | 5.00E-06 | 2.47E-06 |
| 2732 | 256534.65 | 4085349.94 | 6.53E-06 | 9.44E-05 | 6.96E-05 | 6.96E-05 | 3.88E-05 | 9.91E-07 | 1.44E-05 | 1.09E-05 | 1.09E-05 | 5.97E-06 | 5.38E-07 | 7.78E-06 | 4.83E-06 | 4.83E-06 | 2.39E-06 |
| 2733 | 256524.54 | 4085328 | 6.33E-06 | 9.16E-05 | 6.75E-05 | 6.75E-05 | 3.76E-05 | 9.61E-07 | 1.40E-05 | 1.05E-05 | 1.05E-05 | 5.80E-06 | 5.22E-07 | 7.55E-06 | 4.69E-06 | 4.69E-06 | 2.32E-06 |
| 2734 | 256514.44 | 4085306.05 | 6.16E-06 | 8.91E-05 | 6.56E-05 | 6.56E-05 | 3.66E-05 | 9.35E-07 | 1.36E-05 | 1.02E-05 | 1.02E-05 | 5.63E-06 | 5.08E-07 | 7.34E-06 | 4.56E-06 | 4.56E-06 | 2.26E-06 |
| 2735 | 256504.33 | 4085284.11 | 5.99E-06 | 8.67E-05 | 6.39E-05 | 6.39E-05 | 3.56E-05 | 9.09E-07 | 1.32E-05 | 9.97E-06 | 9.97E-06 | 5.48E-06 | 4.94E-07 | 7.14E-06 | 4.44E-06 | 4.44E-06 | 2.20E-06 |
| 2736 | 256494.23 | 4085262.16 | 5.84E-06 | 8.45E-05 | 6.23E-05 | 6.23E-05 | 3.47E-05 | 8.85E-07 | 1.29E-05 | 9.72E-06 | 9.72E-06 | 5.34E-06 | 4.81E-07 | 6.96E-06 | 4.32E-06 | 4.32E-06 | 2.14E-06 |
| 2737 | 256484.12 | 4085240.22 | 5.70E-06 | 8.24E-05 | 6.07E-05 | 6.07E-05 | 3.39E-05 | 8.65E-07 | 1.26E-05 | 9.49E-06 | 9.49E-06 | 5.21E-06 | 4.70E-07 | 6.79E-06 | 4.22E-06 | 4.22E-06 | 2.09E-06 |
| 2738 | 256474.02 | 4085218.27 | 5.57E-06 | 8.06E-05 | 5.94E-05 | 5.94E-05 | 3.31E-05 | 8.46E-07 | 1.23E-05 | 9.28E-06 | 9.28E-06 | 5.10E-06 | 4.59E-07 | 6.64E-06 | 4.13E-06 | 4.13E-06 | 2.04E-06 |
| 2739 | 257611.83 | 4086254.52 | 1.17E-05 | 1.69E-04 | 1.25E-04 | 1.25E-04 | 6.96E-05 | 1.78E-06 | 2.58E-05 | 1.95E-05 | 1.95E-05 | 1.07E-05 | 9.65E-07 | 1.40E-05 | 8.67E-06 | 8.67E-06 | 4.29E-06 |
| 2740 | 257636.11 | 4086253.45 | 1.16E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.88E-06 | 1.76E-06 | 2.55E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.54E-07 | 1.38E-05 | 8.57E-06 | 8.57E-06 | 4.24E-06 |
| 2741 | 257660.4 | 4086252.37 | 1.14E-05 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.79E-05 | 1.74E-06 | 2.52E-05 | 1.90E-05 | 1.90E-05 | 1.05E-05 | 9.42E-07 | 1.36E-05 | 8.47E-06 | 8.47E-06 | 4.19E-06 |
| 2742 | 257684.68 | 4086251.3 | 1.13E-05 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.70E-05 | 1.71E-06 | 2.48E-05 | 1.88E-05 | 1.88E-05 | 1.03E-05 | 9.29E-07 | 1.34E-05 | 8.35E-06 | 8.35E-06 | 4.13E-06 |
| 2743 | 257708.96 | 4086250.22 | 1.11E-05 | 1.61E-04 | 1.18E-04 | 1.18E-04 | 6.60E-05 | 1.69E-06 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.02E-05 | 9.15E-07 | 1.32E-05 | 8.23E-06 | 8.23E-06 | 4.07E-06 |
| 2744 | 257733.24 | 4086249.15 | 1.09E-05 | 1.58E-04 | 1.16E-04 | 1.16E-04 | 6.49E-05 | 1.66E-06 | 2.41E-05 | 1.82E-05 | 1.82E-05 | 1.00E-05 | 9.01E-07 | 1.30E-05 | 8.09E-06 | 8.09E-06 | 4.01E-06 |
| 2745 | 257757.52 | 4086248.07 | 1.07E-05 | 1.55E-04 | 1.15E-04 | 1.15E-04 | 6.39E-05 | 1.63E-06 | 2.37E-05 | 1.79E-05 | 1.79E-05 | 9.83E-06 | 8.86E-07 | 1.28E-05 | 7.96E-06 | 7.96E-06 | 3.94E-06 |
| 2746 | 257781.8 | 4086246.99 | 1.06E-05 | 1.53E-04 | 1.13E-04 | 1.13E-04 | 6.28E-05 | 1.60E-06 | 2.33E-05 | 1.76E-05 | 1.76E-05 | 9.67E-06 | 8.71E-07 | 1.26E-05 | 7.82E-06 | 7.82E-06 | 3.87E-06 |
| 2747 | 257806.09 | 4086245.92 | 1.04E-05 | 1.50E-04 | 1.11E-04 | 1.11E-04 | 6.16E-05 | 1.57E-06 | 2.29E-05 | 1.73E-05 | 1.73E-05 | 9.49E-06 | 8.55E-07 | 1.24E-05 | 7.68E-06 | 7.68E-06 | 3.80E-06 |
| 2748 | 257830.37 | 4086244.84 | 1.02E-05 | 1.47E-04 | 1.09E-04 | 1.09E-04 | 6.05E-05 | 1.54E-06 | 2.24E-05 | 1.69E-05 | 1.69E-05 | 9.31E-06 | 8.39E-07 | 1.21E-05 | 7.54E-06 | 7.54E-06 | 3.73E-06 |
| 2749 | 257854.65 | 4086243.77 | 1.00E-05 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.94E-05 | 1.52E-06 | 2.20E-05 | 1.66E-05 | 1.66E-05 | 9.15E-06 | 8.24E-07 | 1.19E-05 | 7.41E-06 | 7.41E-06 | 3.67E-06 |
| 2750 | 257878.93 | 4086242.69 | 9.82E-06 | 1.42E-04 | 1.05E-04 | 1.05E-04 | 5.83E-05 | 1.49E-06 | 2.16E-05 | 1.63E-05 | 1.63E-05 | 8.98E-06 | 8.09E-07 | 1.17E-05 | 7.27E-06 | 7.27E-06 | 3.60E-06 |
| 2751 | 257903.21 | 4086241.62 | 9.64E-06 | 1.39E-04 | 1.03E-04 | 1.03E-04 | 5.73E-05 | 1.46E-06 | 2.12E-05 | 1.60E-05 | 1.60E-05 | 8.82E-06 | 7.94E-07 | 1.15E-05 | 7.14E-06 | 7.14E-06 | 3.53E-06 |
| 2752 | 257927.5 | 4086240.54 | 9.47E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.63E-05 | 1.44E-06 | 2.09E-05 | 1.58E-05 | 1.58E-05 | 8.66E-06 | 7.81E-07 | 1.13E-05 | 7.01E-06 | 7.01E-06 | 3.47E-06 |
| 2753 | 257951.78 | 4086239.47 | 9.30E-06 | 1.35E-04 | 9.92E-05 | 9.92E-05 | 5.53E-05 | 1.41E-06 | 2.05E-05 | 1.55E-05 | 1.55E-05 | 8.51E-06 | 7.67E-07 | 1.11E-05 | 6.89E-06 | 6.89E-06 | 3.41E-06 |
| 2754 | 257976.06 | 4086238.39 | 9.14E-06 | 1.32E-04 | 9.74E-05 | 9.74E-05 | 5.43E-05 | 1.39E-06 | 2.01E-05 | 1.52E-06 | 1.52E-05 | 8.36E-06 | 7.53E-07 | 1.09E-05 | 6.77E-06 | 6.77E-06 | 3.35E-06 |
| 2755 | 258000.34 | 4086237.32 | 8.98E-06 | 1.30E-04 | 9.57E-05 | 9.57E-05 | 5.33E-05 | 1.36E-06 | 1.98E-05 | 1.49E-05 | 1.49E-05 | 8.21E-06 | 7.40E-07 | 1.07E-05 | 6.65E-06 | 6.65E-06 | 3.29E-06 |
| 2756 | 258024.62 | 4086236.24 | 8.81E-06 | 1.27E-04 | 9.39E-05 | 9.39E-05 | 5.24E-05 | 1.34E-06 | 1.94E-05 | 1.47E-05 | 1.47E-05 | 8.06E-06 | 7.26E-07 | 1.05E-05 | 6.53E-06 | 6.53E-06 | 3.23E-06 |
| 2757 | 258048.9 | 4086235.16 | 8.65E-06 | 1.25E-04 | 9.22E-05 | 9.22E-05 | 5.14E-05 | 1.31E-06 | 1.91E-05 | 1.44E-05 | 1.44E-05 | 7.91E-06 | 7.13E-07 | 1.03E-05 | 6.40E-06 | 6.40E-06 | 3.17E-06 |
| 2758 | 258073.19 | 4086234.09 | 8.48E-06 | 1.23E-04 | 9.04E-05 | 9.04E-05 | 5.04E-05 | 1.29E-06 | 1.87E-05 | 1.41E-05 | 1.41E-05 | 7.76E-06 | 6.99E-07 | 1.01E-05 | 6.28E-06 | 6.28E-06 | 3.11E-06 |
| 2759 | 258097.47 | 4086233.01 | 8.32E-06 | 1.20E-04 | 8.87E-05 | 8.87E-05 | 4.94E-05 | 1.26E-06 | 1.83E-05 | 1.38E-05 | 1.38E-05 | 7.61E-06 | 6.86E-07 | 9.92E-06 | 6.16E-06 | 6.16E-06 | 3.05E-06 |
| 2760 | 258121.75 | 4086231.94 | 8.18E-06 | 1.18E-04 | 8.72E-05 | 8.72E-05 | 4.86E-05 | 1.24E-06 | 1.80E-05 | 1.36E-05 | 1.36E-05 | 7.48E-06 | 6.74E-07 | 9.75E-06 | 6.06E-06 | 6.06E-06 | 3.00E-06 |
| 2761 | 258146.03 | 4086230.86 | 8.02E-06 | 1.16E-04 | 8.55E-05 | 8.55E-05 | 4.77E-05 | 1.22E-06 | 1.77E-05 | 1.34E-05 | 1.34E-05 | 7.34E-06 | 6.61E-07 | 9.56E-06 | 5.94E-06 | 5.94E-06 | 2.94E-06 |
| 2762 | 258170.31 | 4086229.79 | 7.86E-06 | 1.14E-04 | 8.38E-05 | 8.38E-05 | 4.67E-05 | 1.19E-06 | 1.73E-05 | 1.31E-05 | 1.31E-05 | 7.19E-06 | 6.48E-07 | 9.37E-06 | 5.82E-06 | 5.82E-06 | 2.88E-06 |
| 2763 | 258194.6 | 4086228.71 | 7.69E-06 | 1.11E-04 | 8.20E-05 | 8.20E-05 | 4.57E-05 | 1.17E-06 | 1.70E-05 | 1.28E-05 | 1.28E-05 | 7.04E-06 | 6.34E-07 | 9.17E-06 | 5.70E-06 | 5.70E-06 | 2.82E-06 |
| 2764 | 258218.88 | 4086227.64 | 7.53E-06 | 1.09E-04 | 8.03E-05 | 8.03E-05 | 4.48E-05 | 1.14E-06 | 1.66E-05 | 1.25E-05 | 1.25E-05 | 6.89E-06 | 6.21E-07 | 8.98E-06 | 5.58E-06 | 5.58E-06 | 2.76E-06 |
| 2765 | 258243.16 | 4086226.56 | 7.37E-06 | 1.07E-04 | 7.85E-05 | 7.85E-05 | 4.38E-05 | 1.12E-06 | 1.62E-05 | 1.23E-05 | 1.23E-05 | 6.74E-06 | 6.07E-07 | 8.78E-06 | 5.46E-06 | 5.46E-06 | 2.70E-06 |
| 2766 | 258267.44 | 4086225.49 | 7.20E-06 | 1.04E-04 | 7.68E-05 | 7.68E-05 | 4.28E-05 | 1.09E-06 | 1.59E-05 | 1.20E-05 | 1.20E-05 | 6.59E-06 | 5.94E-07 | 8.59E-06 | 5.33E-06 | 5.33E-06 | 2.64E-06 |
| 2767 | 258291.72 | 4086224.41 | 7.03E-06 | 1.02E-04 | 7.50E-05 | 7.50E-05 | 4.18E-05 | 1.07E-06 | 1.55E-05 | 1.17E-05 | 1.17E-05 | 6.44E-06 | 5.80E-07 | 8.39E-06 | 5.21E-06 | 5.21E-06 | 2.58E-06 |
| 2768 | 258316 | 4086223.33 | 6.86E-06 | 9.93E-05 | 7.32E-05 | 7.32E-05 | 4.08E-05 | 1.04E-06 | 1.51E-05 | 1.14E-05 | 1.14E-05 | 6.28E-06 | 5.66E-07 | 8.18E-06 | 5.08E-06 | 5.08E-06 | 2.52E-06 |
| 2769 | 258340.29 | 4086222.26 | 6.69E-06 | 9.68E-05 | 7.14E-05 | 7.14E-05 | 3.98E-05 | 1.02E-06 | 1.48E-05 | 1.11E-05 | 1.11E-05 | 6.13E-06 | 5.52E-07 | 7.98E-06 | 4.96E-06 | 4.96E-06 | 2.45E-06 |
| 2770 | 258364.57 | 4086221.18 | 6.53E-06 | 9.44E-05 | 6.96E-05 | 6.96E-05 | 3.88E-05 | 9.91E-07 | 1.44E-05 | 1.09E-05 | 1.09E-05 | 5.97E-06 | 5.38E-07 | 7.78E-06 | 4.83E-06 | 4.83E-06 | 2.39E-06 |
| 2771 | 258388.85 | 4086220.11 | 6.36E-06 | 9.20E-05 | 6.78E-05 | 6.78E-05 | 3.78E-05 | 9.65E-07 | 1.40E-05 | 1.06E-05 | 1.06E-05 | 5.82E-06 | 5.24E-07 | 7.58E-06 | 4.71E-06 | 4.71E-06 | 2.33E-06 |
| 2772 | 258413.13 | 4086219.03 | 6.19E-06 | 8.96E-05 | 6.60E-05 | 6.60E-05 | 3.68E-05 | 9.40E-07 | 1.36E-05 | 1.03E-05 | 1.03E-05 | 5.67E-06 | 5.11E-07 | 7.39E-06 | 4.59E-06 | 4.59E-06 | 2.27E-06 |
| 2773 | 257598.33 | 4086446.16 | 9.13E-06 | 1.32E-04 | 9.73E-05 | 9.73E-05 | 5.43E-05 | 1.39E-06 | 2.01E-05 | 1.52E-05 | 1.52E-05 | 8.36E-06 | 7.53E-07 | 1.09E-05 | 6.76E-06 | 6.76E-06 | 3.35E-06 |
| 2774 | 257575.98 | 4086438 | 9.34E-06 | 1.35E-04 | 9.95E-05 | 9.95E-05 | 5.55E-05 | 1.42E-06 | 2.06E-05 | 1.55E-05 | 1.55E-05 | 8.54E-06 | 7.70E-07 | 1.11E-05 | 6.91E-06 | 6.91E-06 | 3.42E-06 |
| 2775 | 257553.64 | 4086429.83 | 9.54E-06 | 1.38E-04 | 1.02E-04 | 1.02E-04 | 5.67E-05 | 1.45E-06 | 2.10E-06 | 1.59E-05 | 1.59E-05 | 8.73E-06 | 7.86E-07 | 1.14E-05 | 7.06E-06 | 7.06E-06 | 3.50E-06 |
| 2776 | 257531.29 | 4086421.67 | 9.73E-06 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.78E-05 | 1.48E-06 | 2.14E-05 | 1.62E-05 | 1.62E-05 | 8.91E-06 | 8.02E-07 | 1.16E-05 | 7.21E-06 | 7.21E-06 | 3.57E-06 |
| 2777 | 257508.94 | 4086413.51 | 9.92E-06 | 1.43E-04 | 1.06E-04 | 1.06E-04 | 5.90E-05 | 1.51E-06 | 2.19E-05 | 1.65E-05 | 1.65E-05 | 9.08E-06 | 8.18E-07 | 1.18E-05 | 7.35E-06 | 7.35E-06 | 3.64E-06 |
| 2778 | 257486.59 | 4086405.34 | 1.01E-05 | 1.46E-04 | 1.08E-04 | 1.08E-04 | 6.00E-05 | 1.53E-06 | 2.23E-05 | 1.68E-05 | 1.68E-05 | 9.24E-06 | 8.33E-07 | 1.20E-05 | 7.48E-06 | 7.48E-06 | 3.70E-06 |
| 2779 | 257464.24 | 4086397.18 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.11E-05 | 1.56E-06 | 2.26E-05 | 1.71E-05 | 1.71E-05 | 9.40E-06 | 8.47E-07 | 1.22E-05 | 7.61E-06 | 7.61E-06 | 3.77E-06 |
| 2780 | 257441.89 | 4086389.01 | 1.04E-05 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 6.20E-05 | 1.58E-06 | 2.30E-05 | 1.74E-05 | 1.74E-05 | 9.55E-06 | 8.60E-07 | 1.24E-05 | 7.73E-06 | 7.73E-06 | 3.83E-06 |
| 2781 | 257419.54 | 4086380.85 | 1.06E-05 | 1.53E-04 | 1.13E-04 | 1.13E-04 | 6.29E-05 | 1.61E-06 | 2.33E-05 | 1.76E-05 | 1.76E-05 | 9.69E-06 | 8.73E-07 | 1.26E-05 | 7.84E-06 | 7.84E-06 | 3.88E-06 |
| 2782 | 257397.19 | 4086372.69 | 1.07E-05 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 6.38E-05 | 1.63E-06 | 2.37E-05 | 1.79E-05 | 1.79E-05 | 9.82E-06 | 8.85E-07 | 1.28E-05 | 7.95E-06 | 7.95E-06 | 3.94E-06 |
| 2783 | 257374.85 | 4086364.52 | 1.09E-05 | 1.57E-04 | 1.16E-04 | 1.16E-04 | 6.46E-05 | 1.65E-06 | 2.39E-05 | 1.81E-05 | 1.81E-05 | 9.95E-06 | 8.96E-07 | 1.30E-05 | 8.05E-06 | 8.05E-06 | 3.98E-06 |
| 2784 | 257352.5 | 4086356.36 | 1.10E-05 | 1.59E-04 | 1.17E-04 | 1.17E-04 | 6.53E-05 | 1.67E-06 | 2.42E-05 | 1.83E-05 | 1.83E-05 | 1.01E-05 | 9.06E-07 | 1.31E-05 | 8.14E-06 | 8.14E-06 | 4.03E-06 |
| 2785 | 257330.15 | 4086348.19 | 1.11E-05 | 1.61E-04 | 1.18E-04 | 1.18E-04 | 6.60E-05 | 1.69E-06 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.02E-05 | 9.16E-07 | 1.32E-05 | 8.23E-06 | 8.23E-06 | 4.07E-06 |
| 2786 | 257307.8 | 4086340.03 | 1.12E-05 | 1.62E-04 | 1.20E-04 | 1.20E-04 | 6.67E-05 | 1.70E-06 | 2.47E-05 | 1.87E-05 | 1.87E-05 | 1.03E-05 | 9.25E-07 | 1.34E-05 | 8.31E-06 | 8.31E-06 | 4.11E-06 |
| 2787 | 257285.45 | 4086331.87 | 1.13E-05 | 1.64E-04 | 1.21E-04 | 1.21E-04 | 6.73E-05 | 1.72E-06 | 2.50E-05 | 1.89E-05 | 1.89E-05 | 1.04E-05 | 9.34E-07 | 1.35E-05 | 8.39E-06 | 8.39E-06 | 4.15E-06 |
| 2788 | 257263.1 | 4086323.7 | 1.14E-05 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.79E-05 | 1.73E-06 | 2.52E-05 | 1.90E-05 | 1.90E-05 | 1.05E-05 | 9.42E-07 | 1.36E-05 | 8.45E-06 | 8.45E-06 | 4.19E-06 |
| 2789 | 257240.75 | 4086315.54 | 1.15E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.86E-05 | 1.75E-06 | 2.54E-05 | 1.92E-05 | 1.92E-05 | 1.06E-05 | 9.51E-07 | 1.38E-06 | 8.54E-06 | 8.54E-06 | 4.23E-06 |
| 2790 | 257218.4 | 4086307.37 | 1.16E-05 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.92E-05 | 1.77E-06 | 2.56E-05 | 1.94E-05 | 1.94E-05 | 1.07E-05 | 9.59E-07 | 1.39E-05 | 8.62E-06 | 8.62E-06 | 4.27E-06 |
| 2791 | 257196.06 | 4086299.21 | 1.17E-05 | 1.70E-04 | 1.25E-04 | 1.25E-04 | 6.98E-05 | 1.78E-06 | 2.59E-05 | 1.95E-05 | 1.95E-05 | 1.07E-05 | 9.68E-07 | 1.40E-05 | 8.70E-06 | 8.70E-06 | 4.30E-06 |
| 2792 | 257173.71 | 4086291.04 | 1.19E-05 | 1.71E-04 | 1.26E-04 | 1.26E-04 | 7.04E-05 | 1.80E-06 | 2.61E-05 | 1.97E-05 | 1.97E-05 | 1.08E-05 | 9.77E-07 | 1.41E-05 | 8.78E-06 | 8.78E-06 | 4.34E-06 |
| 2793 | 257151.36 | 4086282.88 | 1.20E-05 | 1.73E-04 | 1.28E-04 | 1.28E-04 | 7.12E-05 | 1.82E-06 | 2.64E-05 | 1.99E-05 | 1.99E-05 | 1.10E-05 | 9.88E-07 | 1.43E-05 | 8.87E-06 | 8.87E-06 | 4.39E-06 |
| 2794 | 257129.01 | 4086274.72 | 1.21E-05 | 1.75E-04 | 1.29E-04 | 1.29E-04 | 7.19E-05 | 1.84E-06 | 2.67E-05 | 2.01E-05 | 2.01E-05 | 1.11E-05 | 9.97E-07 | 1.44E-05 | 8.96E-06 | 8.96E-06 | 4.44E-06 |
| 2795 | 257106.66 | 4086266.55 | 1.22E-05 | 1.76E-04 | 1.30E-04 | 1.30E-04 | 7.25E-05 | 1.85E-06 | 2.69E-05 | 2.03E-05 | 2.03E-05 | 1.12E-05 | 1.01E-06 | 1.45E-05 | 9.03E-06 | 9.03E-06 | 4.47E-06 |
| 2796 | 257084.31 | 4086258.39 | 1.23E-05 | 1.78E-04 | 1.31E-04 | 1.31E-04 | 7.30E-05 | 1.86E-06 | 2.71E-05 | 2.04E-05 | 2.04E-05 | 1.12E-05 | 1.01E-06 | 1.46E-05 | 9.09E-06 | 9.09E-06 | 4.50E-06 |
| 2797 | 257061.96 | 4086250.22 | 1.23E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 2798 | 257039.61 | 4086242.06 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.37E-05 | 1.88E-06 | 2.73E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.48E-05 | 9.18E-06 | 9.18E-06 | 4.54E-06 |
| 2799 | 257017.27 | 4086233.9 | 1.24E-05 | 1.80E-04 | 1.32E-04 | 1.32E-04 | 7.38E-05 | 1.89E-06 | 2.74E-05 | 2.07E-05 | 2.07E-05 | 1.14E-05 | 1.02E-06 | 1.48E-05 | 9.20E-06 | 9.20E-06 | 4.55E-06 |
| 2800 | 256994.92 | 4086225.73 | 1.24E-05 | 1.80E-04 | 1.33E-04 | 1.33E-04 | 7.39E-05 | 1.89E-06 | 2.74E-05 | 2.07E-05 | 2.07E-05 | 1.14E-05 | 1.03E-06 | 1.48E-05 | 9.21E-06 | 9.21E-06 | 4.56E-06 |
| 2801 | 256972.57 | 4086217.57 | 1.24E-05 | 1.80E-04 | 1.32E-04 | 1.32E-04 | 7.38E-05 | 1.88E-06 | 2.74E-06 | 2.07E-05 | 2.07E-05 | 1.14E-05 | 1.02E-06 | 1.48E-05 | 9.19E-06 | 9.19E-06 | 4.55E-06 |
| 2802 | 256950.22 | 4086209.4 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.36E-05 | 1.88E-06 | 2.73E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.48E-05 | 9.17E-06 | 9.17E-06 | 4.54E-06 |
| 2803 | 256927.87 | 4086201.24 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.35E-05 | 1.88E-06 | 2.73E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.16E-06 | 9.16E-06 | 4.53E-06 |
| 2804 | 256905.52 | 4086193.08 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.88E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.15E-06 | 9.15E-06 | 4.53E-06 |
| 2805 | 256883.17 | 4086184.91 | 1.23E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 2806 | 256860.83 | 4086176.75 | 1.23E-05 | 1.78E-04 | 1.32E-04 | 1.32E-04 | 7.33E-05 | 1.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 2807 | 256838.48 | 4086168.58 | 1.23E-05 | 1.78E-04 | 1.32E-04 | 1.32E-04 | 7.33E-05 | 1.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 2808 | 256816.13 | 4086160.42 | 1.23E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 2809 | 256793.78 | 4086152.26 | 1.23E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.87E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.53E-06 |
| 2810 | 256771.43 | 4086144.09 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.88E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.15E-06 | 9.15E-06 | 4.53E-06 |
| 2811 | 256749.08 | 4086135.93 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.35E-05 | 1.88E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.16E-06 | 9.16E-06 | 4.53E-06 |
| 2812 | 256726.73 | 4086127.76 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.35E-05 | 1.88E-06 | 2.73E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.18E-06 | 9.16E-06 | 4.53E-06 |
| 2813 | 256704.38 | 4086119.6 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.35E-05 | 1.88E-06 | 2.73E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.48E-05 | 9.16E-06 | 9.16E-06 | 4.54E-06 |
| 2814 | 256672.08 | 4086089.82 | 1.26E-05 | 1.82E-04 | 1.34E-04 | 1.34E-04 | 7.48E-05 | 1.91E-06 | 2.77E-05 | 2.09E-05 | 2.09E-05 | 1.15E-05 | 1.04E-06 | 1.50E-05 | 9.31E-06 | 9.31E-06 | 4.61E-06 |
| 2815 | 256662.13 | 4086068.21 | 1.28E-05 | 1.85E-04 | 1.36E-04 | 1.36E-04 | 7.60E-05 | 1.94E-06 | 2.82E-05 | 2.13E-05 | 2.13E-05 | 1.17E-05 | 1.05E-06 | 1.52E-05 | 9.47E-06 | 9.47E-06 | 4.69E-06 |
| 2816 | 256652.18 | 4086046.6 | 1.30E-05 | 1.88E-04 | 1.39E-04 | 1.39E-04 | 7.72E-05 | 1.97E-06 | 2.86E-05 | 2.16E-05 | 2.16E-05 | 1.19E-05 | 1.07E-06 | 1.55E-05 | 9.62E-06 | 9.62E-06 | 4.76E-06 |
| 2817 | 256642.23 | 4086024.99 | 1.32E-05 | 1.90E-04 | 1.40E-04 | 1.40E-04 | 7.82E-05 | 2.00E-06 | 2.90E-05 | 2.19E-05 | 2.19E-05 | 1.20E-05 | 1.09E-06 | 1.57E-05 | 9.75E-06 | 9.75E-06 | 4.83E-06 |
| 2818 | 256632.28 | 4086003.38 | 1.33E-05 | 1.92E-04 | 1.42E-04 | 1.42E-04 | 7.91E-05 | 2.02E-06 | 2.93E-05 | 2.22E-05 | 2.22E-05 | 1.22E-05 | 1.10E-06 | 1.59E-05 | 9.86E-06 | 9.86E-06 | 4.88E-06 |
| 2819 | 256622.32 | 4085981.76 | 1.34E-05 | 1.94E-04 | 1.43E-04 | 1.43E-04 | 7.98E-05 | 2.04E-06 | 2.96E-05 | 2.23E-05 | 2.23E-05 | 1.23E-05 | 1.11E-06 | 1.60E-05 | 9.94E-06 | 9.94E-06 | 4.92E-06 |
| 2820 | 256612.37 | 4085960.15 | 1.35E-05 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.03E-05 | 2.05E-06 | 2.98E-05 | 2.25E-05 | 2.25E-05 | 1.24E-05 | 1.11E-06 | 1.61E-05 | 1.00E-05 | 1.00E-05 | 4.95E-06 |
| 2821 | 256602.42 | 4085938.54 | 1.35E-05 | 1.96E-04 | 1.44E-04 | 1.44E-04 | 8.05E-05 | 2.06E-06 | 2.99E-05 | 2.26E-05 | 2.26E-05 | 1.24E-05 | 1.12E-06 | 1.62E-05 | 1.00E-05 | 1.00E-05 | 4.97E-06 |
| 2822 | 256592.47 | 4085916.93 | 1.35E-05 | 1.96E-04 | 1.44E-04 | 1.44E-04 | 8.05E-05 | 2.05E-06 | 2.98E-05 | 2.25E-05 | 2.25E-05 | 1.24E-05 | 1.12E-06 | 1.61E-05 | 1.00E-05 | 1.00E-05 | 4.96E-06 |
| 2823 | 256582.52 | 4085895.32 | 1.35E-05 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.01E-05 | 2.05E-06 | 2.97E-05 | 2.24E-05 | 2.24E-05 | 1.23E-05 | 1.11E-06 | 1.61E-05 | 9.98E-06 | 9.98E-06 | 4.94E-06 |
| 2824 | 256572.56 | 4085873.7 | 1.34E-05 | 1.93E-04 | 1.42E-04 | 1.42E-04 | 7.94E-05 | 2.03E-06 | 2.95E-05 | 2.22E-05 | 2.22E-05 | 1.22E-06 | 1.10E-06 | 1.59E-05 | 9.90E-06 | 9.90E-06 | 4.90E-06 |
| 2825 | 256562.61 | 4085852.09 | 1.32E-05 | 1.91E-04 | 1.41E-04 | 1.41E-04 | 7.84E-05 | 2.00E-06 | 2.91E-05 | 2.20E-05 | 2.20E-05 | 1.21E-05 | 1.09E-06 | 1.57E-05 | 9.77E-06 | 9.77E-06 | 4.84E-06 |
| 2826 | 256552.66 | 4085830.48 | 1.30E-05 | 1.88E-04 | 1.38E-04 | 1.38E-04 | 7.71E-05 | 1.97E-06 | 2.86E-05 | 2.16E-05 | 2.16E-05 | 1.19E-05 | 1.07E-06 | 1.55E-05 | 9.61E-06 | 9.61E-06 | 4.76E-06 |
| 2827 | 256542.71 | 4085808.87 | 1.27E-05 | 1.84E-04 | 1.35E-04 | 1.35E-04 | 7.54E-05 | 1.93E-06 | 2.80E-05 | 2.11E-05 | 2.11E-05 | 1.16E-05 | 1.05E-06 | 1.51E-05 | 9.40E-06 | 9.40E-06 | 4.65E-06 |
| 2828 | 256532.76 | 4085787.26 | 1.24E-06 | 

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2622 | 256813.45 | 4085513.96 | 1.52E-05 | 2.19E-04 | 1.62E-04 | 1.62E-04 | 9.01E-05 | 2.30E-06 | 3.34E-05 | 2.52E-05 | 2.52E-05 | 1.39E-05 | 1.25E-06 | 1.81E-05 | 1.12E-05 | 1.12E-05 | 5.56E-06 | | |
| 2623 | 256803.47 | 4085492.29 | 1.42E-05 | 2.06E-04 | 1.52E-04 | 1.52E-04 | 8.45E-05 | 2.16E-06 | 3.13E-05 | 2.37E-05 | 2.37E-05 | 1.30E-05 | 1.17E-06 | 1.69E-05 | 1.05E-05 | 1.05E-05 | 5.21E-06 | | |
| 2624 | 256793.5 | 4085470.62 | 1.33E-05 | 1.92E-04 | 1.41E-04 | 1.41E-04 | 7.89E-05 | 2.01E-06 | 2.92E-05 | 2.21E-05 | 2.21E-05 | 1.21E-05 | 1.09E-06 | 1.58E-05 | 9.83E-06 | 9.83E-06 | 4.86E-06 | | |
| 2625 | 256783.52 | 4085448.95 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.87E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.15E-06 | 9.15E-06 | 4.53E-06 | | |
| 2626 | 256773.54 | 4085427.29 | 1.15E-05 | 1.66E-04 | 1.23E-04 | 1.23E-04 | 6.83E-05 | 1.74E-06 | 2.53E-05 | 1.91E-05 | 1.91E-05 | 1.05E-05 | 9.48E-07 | 1.37E-06 | 8.51E-06 | 8.51E-06 | 4.21E-06 | | |
| 2627 | 256763.56 | 4085405.62 | 1.07E-05 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 6.37E-05 | 1.63E-06 | 2.36E-05 | 1.78E-05 | 1.78E-05 | 9.81E-06 | 8.84E-07 | 1.28E-05 | 7.94E-06 | 7.94E-06 | 3.93E-06 | | |
| 2628 | 256753.58 | 4085383.95 | 1.00E-05 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.96E-05 | 1.52E-06 | 2.21E-06 | 1.67E-05 | 1.67E-05 | 9.18E-06 | 8.27E-07 | 1.20E-05 | 7.43E-06 | 7.43E-06 | 3.68E-06 | | |
| 2629 | 256743.6 | 4085362.28 | 9.45E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.62E-05 | 1.43E-06 | 2.08E-05 | 1.57E-05 | 1.57E-05 | 8.65E-06 | 7.79E-07 | 1.13E-05 | 7.00E-06 | 7.00E-06 | 3.46E-06 | | |
| 2630 | 256733.63 | 4085340.61 | 8.96E-06 | 1.30E-04 | 9.55E-05 | 9.55E-05 | 5.32E-06 | 1.36E-06 | 1.97E-05 | 1.49E-05 | 1.49E-05 | 8.20E-06 | 7.38E-07 | 1.07E-05 | 6.63E-06 | 6.63E-06 | 3.28E-06 | | |
| 2631 | 256723.65 | 4085318.94 | 8.54E-06 | 1.24E-04 | 9.10E-05 | 9.10E-05 | 5.07E-05 | 1.30E-06 | 1.88E-05 | 1.42E-05 | 1.42E-05 | 7.81E-06 | 7.04E-07 | 1.02E-05 | 6.32E-06 | 6.32E-06 | 3.13E-06 | | |
| 2632 | 256713.67 | 4085297.27 | 8.19E-06 | 1.18E-04 | 8.73E-05 | 8.73E-05 | 4.87E-05 | 1.24E-06 | 1.80E-05 | 1.36E-05 | 1.36E-05 | 7.49E-06 | 6.75E-07 | 9.76E-06 | 6.06E-06 | 6.06E-06 | 3.00E-06 | | |
| 2633 | 256703.69 | 4085275.6 | 7.88E-06 | 1.14E-04 | 8.40E-05 | 8.40E-05 | 4.69E-05 | 1.20E-06 | 1.74E-05 | 1.31E-05 | 1.31E-05 | 7.21E-06 | 6.50E-07 | 9.40E-06 | 5.84E-06 | 5.84E-06 | 2.89E-06 | | |
| 2634 | 256693.71 | 4085253.93 | 7.61E-06 | 1.10E-04 | 8.12E-05 | 8.12E-05 | 4.53E-05 | 1.16E-06 | 1.68E-05 | 1.27E-05 | 1.27E-05 | 6.97E-06 | 6.28E-07 | 9.08E-06 | 5.64E-06 | 5.64E-06 | 2.79E-06 | | |
| 2635 | 256683.73 | 4085232.26 | 7.38E-06 | 1.07E-04 | 7.86E-05 | 7.86E-05 | 4.38E-05 | 1.12E-06 | 1.63E-05 | 1.23E-06 | 1.23E-05 | 6.75E-06 | 6.08E-07 | 8.79E-06 | 5.46E-06 | 5.46E-06 | 2.70E-06 | | |
| 2636 | 256673.76 | 4085210.59 | 7.17E-06 | 1.04E-04 | 7.64E-05 | 7.64E-05 | 4.26E-05 | 1.09E-06 | 1.58E-05 | 1.19E-05 | 1.19E-05 | 6.56E-06 | 5.91E-07 | 8.55E-06 | 5.31E-06 | 5.31E-06 | 2.63E-06 | | |
| 2637 | 257602.98 | 4086054.72 | 1.60E-05 | 2.32E-04 | 1.71E-04 | 1.71E-04 | 9.53E-05 | 2.43E-06 | 3.53E-05 | 2.67E-05 | 2.67E-05 | 1.47E-05 | 1.32E-06 | 1.91E-05 | 1.19E-05 | 1.19E-05 | 5.88E-06 | | |
| 2638 | 257627.26 | 4086053.64 | 1.59E-05 | 2.31E-04 | 1.70E-04 | 1.70E-04 | 9.47E-05 | 2.42E-06 | 3.51E-05 | 2.65E-05 | 2.65E-05 | 1.46E-05 | 1.31E-06 | 1.90E-05 | 1.18E-05 | 1.18E-05 | 5.84E-06 | | |
| 2639 | 257651.55 | 4086052.57 | 1.58E-05 | 2.29E-04 | 1.69E-04 | 1.69E-04 | 9.40E-05 | 2.40E-06 | 3.49E-05 | 2.63E-06 | 2.63E-05 | 1.45E-05 | 1.30E-06 | 1.89E-05 | 1.17E-05 | 1.17E-05 | 5.80E-06 | | |
| 2640 | 257675.83 | 4086051.49 | 1.57E-05 | 2.27E-04 | 1.67E-04 | 1.67E-04 | 9.32E-05 | 2.38E-06 | 3.45E-05 | 2.61E-05 | 2.61E-05 | 1.43E-05 | 1.29E-06 | 1.87E-05 | 1.16E-05 | 1.16E-05 | 5.75E-06 | | |
| 2641 | 257700.11 | 4086050.42 | 1.55E-05 | 2.24E-04 | 1.65E-04 | 1.65E-04 | 9.21E-05 | 2.35E-06 | 3.42E-05 | 2.58E-05 | 2.58E-05 | 1.42E-05 | 1.28E-06 | 1.85E-05 | 1.15E-05 | 1.15E-05 | 5.68E-06 | | |
| 2642 | 257724.39 | 4086049.34 | 1.53E-05 | 2.21E-04 | 1.63E-04 | 1.63E-04 | 9.09E-06 | 2.32E-06 | 3.37E-05 | 2.55E-05 | 2.55E-05 | 1.40E-05 | 1.26E-06 | 1.82E-05 | 1.13E-05 | 1.13E-06 | 5.61E-06 | | |
| 2643 | 257748.67 | 4086048.27 | 1.51E-05 | 2.18E-04 | 1.61E-04 | 1.61E-04 | 8.95E-05 | 2.29E-06 | 3.32E-05 | 2.51E-05 | 2.51E-05 | 1.38E-05 | 1.24E-06 | 1.80E-05 | 1.12E-05 | 1.12E-05 | 5.52E-06 | | |
| 2644 | 257772.96 | 4086047.19 | 1.48E-05 | 2.14E-04 | 1.58E-04 | 1.58E-04 | 8.80E-05 | 2.25E-06 | 3.26E-05 | 2.46E-05 | 2.46E-05 | 1.35E-05 | 1.22E-06 | 1.76E-05 | 1.10E-05 | 1.10E-05 | 5.42E-06 | | |
| 2645 | 257797.24 | 4086046.11 | 1.45E-06 | 2.10E-04 | 1.55E-04 | 1.55E-04 | 8.62E-05 | 2.20E-06 | 3.20E-05 | 2.42E-05 | 2.42E-05 | 1.33E-05 | 1.20E-06 | 1.73E-05 | 1.07E-05 | 1.07E-05 | 5.32E-06 | | |
| 2646 | 257821.52 | 4086045.04 | 1.42E-05 | 2.05E-04 | 1.51E-04 | 1.51E-04 | 8.44E-05 | 2.16E-06 | 3.13E-05 | 2.36E-05 | 2.36E-05 | 1.30E-05 | 1.17E-06 | 1.69E-05 | 1.05E-05 | 1.05E-05 | 5.21E-06 | | |
| 2647 | 257845.8 | 4086043.96 | 1.39E-05 | 2.01E-04 | 1.48E-04 | 1.48E-04 | 8.25E-05 | 2.11E-06 | 3.06E-05 | 2.31E-05 | 2.31E-05 | 1.27E-05 | 1.14E-06 | 1.66E-05 | 1.03E-05 | 1.03E-05 | 5.09E-06 | | |
| 2648 | 257870.08 | 4086042.89 | 1.38E-05 | 1.96E-04 | 1.45E-04 | 1.45E-04 | 8.06E-05 | 2.06E-06 | 2.99E-05 | 2.26E-05 | 2.26E-05 | 1.24E-05 | 1.12E-06 | 1.62E-05 | 1.00E-06 | 1.00E-05 | 4.97E-06 | | |
| 2649 | 257894.36 | 4086041.81 | 1.33E-05 | 1.92E-04 | 1.41E-04 | 1.41E-04 | 7.88E-05 | 2.01E-06 | 2.92E-05 | 2.21E-05 | 2.21E-05 | 1.21E-05 | 1.09E-06 | 1.58E-05 | 9.82E-06 | 9.82E-06 | 4.86E-06 | | |
| 2650 | 257918.65 | 4086040.74 | 1.30E-06 | 1.88E-04 | 1.38E-04 | 1.38E-04 | 7.71E-05 | 1.97E-06 | 2.86E-05 | 2.16E-05 | 2.16E-05 | 1.19E-05 | 1.07E-06 | 1.55E-05 | 9.60E-06 | 9.60E-06 | 4.75E-06 | | |
| 2651 | 257942.93 | 4086039.66 | 1.27E-05 | 1.84E-04 | 1.35E-04 | 1.35E-04 | 7.55E-05 | 1.93E-06 | 2.80E-05 | 2.11E-05 | 2.11E-06 | 1.16E-06 | 1.05E-06 | 1.51E-05 | 9.41E-06 | 9.41E-06 | 4.66E-06 | | |
| 2652 | 257967.21 | 4086038.59 | 1.26E-06 | 1.80E-04 | 1.33E-04 | 1.33E-04 | 7.40E-05 | 1.89E-06 | 2.74E-05 | 2.07E-05 | 2.07E-05 | 1.14E-05 | 1.03E-06 | 1.48E-05 | 9.22E-06 | 9.22E-06 | 4.57E-06 | | |
| 2653 | 257991.49 | 4086037.51 | 1.22E-05 | 1.77E-04 | 1.30E-04 | 1.30E-04 | 7.27E-05 | 1.85E-06 | 2.69E-05 | 2.04E-05 | 2.04E-05 | 1.12E-05 | 1.01E-06 | 1.46E-05 | 9.06E-06 | 9.06E-06 | 4.48E-06 | | |
| 2654 | 258015.77 | 4086036.44 | 1.20E-05 | 1.74E-04 | 1.28E-04 | 1.28E-04 | 7.14E-05 | 1.82E-06 | 2.65E-05 | 2.00E-05 | 2.00E-05 | 1.10E-05 | 9.90E-07 | 1.43E-05 | 8.90E-06 | 8.90E-06 | 4.40E-06 | | |
| 2655 | 258040.06 | 4086035.36 | 1.18E-05 | 1.71E-04 | 1.26E-04 | 1.26E-04 | 7.01E-05 | 1.79E-06 | 2.60E-05 | 1.96E-05 | 1.96E-05 | 1.08E-05 | 9.73E-07 | 1.41E-05 | 8.74E-06 | 8.74E-06 | 4.33E-06 | | |
| 2656 | 258064.34 | 4086034.28 | 1.16E-05 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.89E-05 | 1.76E-06 | 2.55E-06 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.55E-07 | 1.38E-05 | 8.58E-06 | 8.58E-06 | 4.25E-06 | | |
| 2657 | 258088.62 | 4086033.21 | 1.14E-05 | 1.64E-04 | 1.21E-04 | 1.21E-04 | 6.75E-05 | 1.72E-06 | 2.50E-05 | 1.89E-05 | 1.89E-05 | 1.04E-05 | 9.36E-07 | 1.35E-05 | 8.41E-06 | 8.41E-06 | 4.16E-06 | | |
| 2658 | 258112.9 | 4086032.13 | 1.11E-05 | 1.61E-04 | 1.18E-04 | 1.18E-04 | 6.60E-05 | 1.69E-06 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.02E-05 | 9.16E-07 | 1.32E-05 | 8.23E-06 | 8.23E-06 | 4.07E-06 | | |
| 2659 | 258137.18 | 4086031.06 | 1.09E-05 | 1.57E-04 | 1.16E-04 | 1.16E-04 | 6.45E-05 | 1.65E-06 | 2.39E-05 | 1.81E-05 | 1.81E-05 | 9.93E-06 | 8.95E-07 | 1.29E-05 | 8.04E-06 | 8.04E-06 | 3.98E-06 | | |
| 2660 | 258161.46 | 4086029.98 | 1.06E-06 | 1.53E-04 | 1.13E-04 | 1.13E-04 | 6.29E-05 | 1.61E-06 | 2.33E-05 | 1.76E-05 | 1.76E-05 | 9.68E-06 | 8.72E-07 | 1.26E-05 | 7.83E-06 | 7.83E-06 | 3.88E-06 | | |
| 2661 | 258185.75 | 4086028.91 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.12E-05 | 1.56E-06 | 2.27E-05 | 1.71E-05 | 1.71E-05 | 9.42E-06 | 8.49E-07 | 1.23E-05 | 7.62E-06 | 7.62E-06 | 3.77E-06 | | |
| 2662 | 258210.03 | 4086027.83 | 1.00E-05 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.95E-05 | 1.52E-06 | 2.21E-05 | 1.67E-05 | 1.67E-05 | 9.16E-06 | 8.25E-07 | 1.19E-05 | 7.41E-06 | 7.41E-06 | 3.67E-06 | | |
| 2663 | 258234.31 | 4086026.76 | 9.73E-06 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.78E-06 | 1.48E-06 | 2.14E-05 | 1.62E-05 | 1.62E-05 | 8.90E-06 | 8.02E-07 | 1.16E-05 | 7.20E-06 | 7.20E-06 | 3.58E-06 | | |
| 2664 | 258258.59 | 4086025.68 | 9.44E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.61E-05 | 1.43E-06 | 2.08E-05 | 1.57E-05 | 1.57E-05 | 8.64E-06 | 7.78E-07 | 1.13E-05 | 6.99E-06 | 6.99E-06 | 3.46E-06 | | |
| 2665 | 258282.87 | 4086024.61 | 9.17E-06 | 1.33E-04 | 9.77E-05 | 9.77E-05 | 5.45E-05 | 1.39E-06 | 2.02E-05 | 1.53E-05 | 1.53E-06 | 8.39E-06 | 7.56E-07 | 1.09E-05 | 6.79E-06 | 6.79E-06 | 3.38E-06 | | |
| 2666 | 258307.16 | 4086023.53 | 8.90E-06 | 1.29E-04 | 9.48E-05 | 9.48E-05 | 5.29E-05 | 1.35E-06 | 1.96E-05 | 1.48E-05 | 1.48E-05 | 8.14E-06 | 7.33E-07 | 1.06E-05 | 6.59E-06 | 6.59E-06 | 3.26E-06 | | |
| 2667 | 258331.44 | 4086022.45 | 8.63E-06 | 1.25E-04 | 9.20E-05 | 9.20E-05 | 5.13E-05 | 1.31E-06 | 1.90E-05 | 1.44E-05 | 1.44E-05 | 7.89E-06 | 7.11E-07 | 1.03E-05 | 6.39E-06 | 6.39E-06 | 3.16E-06 | | |
| 2668 | 258355.72 | 4086021.38 | 8.36E-06 | 1.21E-04 | 8.92E-05 | 8.92E-05 | 4.97E-05 | 1.27E-06 | 1.84E-05 | 1.39E-05 | 1.39E-05 | 7.65E-06 | 6.89E-07 | 9.97E-06 | 6.19E-06 | 6.19E-06 | 3.07E-06 | | |
| 2669 | 258380 | 4086020.3 | 8.11E-06 | 1.17E-04 | 8.64E-05 | 8.64E-05 | 4.82E-05 | 1.23E-06 | 1.79E-05 | 1.35E-05 | 1.35E-05 | 7.42E-06 | 6.68E-07 | 9.67E-06 | 6.00E-06 | 6.00E-06 | 2.97E-06 | | |
| 2670 | 25840428 | 4086019.23 | 7.88E-06 | 1.14E-04 | 8.38E-05 | 8.38E-05 | 4.67E-05 | 1.19E-06 | 1.73E-05 | 1.31E-05 | 1.31E-05 | 7.19E-06 | 6.48E-07 | 9.37E-06 | 5.82E-06 | 5.82E-06 | 2.88E-06 | | |
| 2671 | 257589.14 | 4086246.23 | 1.20E-06 | 1.73E-04 | 1.28E-04 | 1.28E-04 | 7.11E-05 | 1.82E-06 | 2.64E-06 | 1.99E-05 | 1.99E-05 | 1.10E-05 | 9.87E-07 | 1.43E-05 | 8.86E-06 | 8.86E-06 | 4.39E-06 | | |
| 2672 | 257566.45 | 4086237.94 | 1.22E-05 | 1.77E-04 | 1.30E-04 | 1.30E-04 | 7.26E-05 | 1.85E-06 | 2.69E-05 | 2.03E-05 | 2.03E-05 | 1.12E-05 | 1.01E-06 | 1.46E-05 | 9.05E-06 | 9.05E-06 | 4.48E-06 | | |
| 2673 | 257543.75 | 4086229.65 | 1.25E-05 | 1.80E-04 | 1.33E-04 | 1.33E-04 | 7.40E-05 | 1.89E-06 | 2.74E-06 | 2.07E-05 | 2.07E-05 | 1.14E-06 | 1.03E-06 | 1.48E-05 | 9.22E-06 | 9.22E-06 | 4.57E-06 | | |
| 2674 | 257521.06 | 4086221.36 | 1.27E-05 | 1.83E-04 | 1.35E-04 | 1.35E-04 | 7.54E-05 | 1.92E-06 | 2.79E-05 | 2.11E-06 | 2.11E-06 | 1.16E-05 | 1.05E-06 | 1.51E-05 | 9.39E-06 | 9.39E-06 | 4.65E-06 | | |
| 2675 | 257498.37 | 4086213.07 | 1.29E-05 | 1.87E-04 | 1.37E-04 | 1.37E-04 | 7.66E-06 | 1.96E-06 | 2.84E-05 | 2.15E-05 | 2.15E-05 | 1.18E-05 | 1.06E-06 | 1.54E-05 | 9.55E-06 | 9.55E-06 | 4.73E-06 | | |
| 2676 | 257475.68 | 4086204.78 | 1.31E-06 | 1.89E-04 | 1.40E-04 | 1.40E-04 | 7.79E-05 | 1.99E-06 | 2.89E-05 | 2.18E-05 | 2.18E-05 | 1.20E-05 | 1.08E-06 | 1.56E-05 | 9.70E-06 | 9.70E-06 | 4.80E-06 | | |
| 2677 | 257452.98 | 4086196.49 | 1.33E-05 | 1.92E-04 | 1.42E-04 | 1.42E-04 | 7.90E-05 | 2.02E-06 | 2.93E-05 | 2.21E-05 | 2.21E-05 | 1.22E-05 | 1.10E-06 | 1.58E-05 | 9.84E-06 | 9.84E-06 | 4.87E-06 | | |
| 2678 | 257430.29 | 4086188.21 | 1.35E-05 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.01E-05 | 2.05E-06 | 2.97E-06 | 2.24E-05 | 2.24E-05 | 1.23E-05 | 1.11E-06 | 1.61E-05 | 9.98E-06 | 9.98E-06 | 4.94E-06 | | |
| 2679 | 257407.6 | 4086179.92 | 1.36E-05 | 1.97E-04 | 1.45E-04 | 1.45E-04 | 8.11E-05 | 2.07E-06 | 3.01E-06 | 2.27E-06 | 2.27E-06 | 1.25E-05 | 1.12E-06 | 1.63E-05 | 1.01E-05 | 1.01E-05 | 5.00E-06 | | |
| 2680 | 257384.91 | 4086171.63 | 1.38E-05 | 2.00E-04 | 1.47E-04 | 1.47E-04 | 8.20E-05 | 2.09E-06 | 3.04E-05 | 2.30E-05 | 2.30E-05 | 1.26E-05 | 1.14E-06 | 1.65E-05 | 1.02E-05 | 1.02E-05 | 5.06E-06 | | |
| 2681 | 257362.21 | 4086163.34 | 1.39E-06 | 2.02E-04 | 1.49E-04 | 1.49E-04 | 8.29E-05 | 2.12E-06 | 3.07E-05 | 2.32E-05 | 2.32E-05 | 1.28E-05 | 1.15E-06 | 1.66E-05 | 1.03E-05 | 1.03E-05 | 5.11E-06 | | |
| 2682 | 257339.52 | 4086155.05 | 1.41E-05 | 2.04E-04 | 1.50E-04 | 1.50E-04 | 8.38E-05 | 2.14E-06 | 3.11E-05 | 2.35E-05 | 2.35E-05 | 1.29E-05 | 1.16E-06 | 1.68E-05 | 1.04E-05 | 1.04E-05 | 5.17E-06 | | |
| 2683 | 257316.83 | 4086146.76 | 1.43E-06 | 2.06E-04 | 1.52E-04 | 1.52E-04 | 8.48E-05 | 2.16E-06 | 3.14E-05 | 2.37E-05 | 2.37E-05 | 1.31E-05 | 1.18E-06 | 1.70E-05 | 1.06E-05 | 1.06E-05 | 5.23E-06 | | |
| 2684 | 257294.14 | 4086138.47 | 1.44E-05 | 2.08E-04 | 1.54E-04 | 1.54E-04 | 8.57E-05 | 2.19E-06 | 3.18E-05 | 2.40E-05 | 2.40E-05 | 1.32E-05 | 1.19E-06 | 1.72E-05 | 1.07E-05 | 1.07E-05 | 5.28E-06 | | |
| 2685 | 257271.44 | 4086130.18 | 1.46E-05 | 2.10E-04 | 1.55E-04 | 1.55E-04 | 8.65E-05 | 2.21E-06 | 3.21E-05 | 2.42E-06 | 2.42E-05 | 1.33E-05 | 1.20E-06 | 1.73E-05 | 1.08E-05 | 1.08E-05 | 5.33E-06 | | |
| 2686 | 257248.75 | 4086121.89 | 1.47E-05 | 2.13E-04 | 1.57E-04 | 1.57E-04 | 8.73E-05 | 2.23E-06 | 3.24E-05 | 2.45E-05 | 2.45E-05 | 1.34E-05 | 1.21E-06 | 1.75E-05 | 1.09E-05 | 1.09E-05 | 5.39E-06 | | |
| 2687 | 257226.06 | 4086113.6 | 1.48E-06 | 2.15E-04 | 1.58E-04 | 1.58E-04 | 8.82E-05 | 2.25E-06 | 3.27E-05 | 2.47E-06 | 2.47E-05 | 1.36E-05 | 1.22E-06 | 1.77E-05 | 1.10E-05 | 1.10E-05 | 5.44E-06 | | |
| 2688 | 257203.37 | 4086105.31 | 1.50E-06 | 2.17E-04 | 1.60E-04 | 1.60E-04 | 8.91E-06 | 2.27E-06 | 3.30E-05 | 2.49E-05 | 2.49E-05 | 1.37E-05 | 1.24E-06 | 1.79E-05 | 1.11E-05 | 1.11E-05 | 5.49E-06 | | |
| 2689 | 257180.67 | 4086097.02 | 1.51E-05 | 2.19E-04 | 1.61E-04 | 1.61E-04 | 8.99E-05 | 2.29E-06 | 3.33E-05 | 2.52E-05 | 2.52E-05 | 1.38E-05 | 1.25E-06 | 1.80E-05 | 1.12E-05 | 1.12E-05 | 5.54E-06 | | |
| 2690 | 257157.98 | 4086088.73 | 1.52E-05 | 2.20E-04 | 1.62E-04 | 1.62E-04 | 9.06E-06 | 2.31E-06 | 3.36E-05 | 2.54E-05 | 2.54E-05 | 1.39E-05 | 1.26E-06 | 1.82E-05 | 1.13E-05 | 1.13E-05 | 5.59E-06 | | |
| 2691 | 257135.29 | 4086080.44 | 1.53E-05 | 2.22E-04 | 1.64E-04 | 1.64E-04 | 9.12E-05 | 2.33E-06 | 3.38E-05 | 2.55E-05 | 2.55E-05 | 1.40E-05 | 1.26E-06 | 1.83E-05 | 1.14E-05 | 1.14E-05 | 5.62E-06 | | |
| 2692 | 257112.6 | 4086072.15 | 1.54E-05 | 2.23E-04 | 1.64E-04 | 1.64E-04 | 9.15E-05 | 2.34E-06 | 3.39E-05 | 2.56E-05 | 2.56E-05 | 1.41E-05 | 1.27E-06 | 1.84E-05 | 1.14E-05 | 1.14E-05 | 5.65E-06 | | |
| 2693 | 257089.9 | 4086063.86 | 1.54E-06 | 2.23E-04 | 1.65E-04 | 1.65E-04 | 9.18E-05 | 2.34E-06 | 3.40E-05 | 2.57E-05 | 2.57E-05 | 1.41E-05 | 1.27E-06 | 1.84E-05 | 1.14E-05 | 1.14E-05 | 5.66E-06 | | |
| 2694 | 257067.21 | 4086055.57 | 1.54E-06 | 2.23E-04 | 1.65E-04 | 1.65E-04 | 9.18E-05 | 2.34E-06 | 3.40E-05 | 2.57E-05 | 2.57E-05 | 1.41E-05 | 1.27E-06 | 1.84E-05 | 1.14E-05 | 1.14E-05 | 5.66E-06 | | |
| 2695 | 257044.52 | 4086047.28 | 1.54E-05 | 2.23E-04 | 1.65E-04 | 1.65E-04 | 9.17E-06 | 2.34E-06 | 3.40E-05 | 2.57E-05 | 2.57E-05 | 1.41E-05 | 1.27E-06 | 1.84E-05 | 1.14E-05 | 1.14E-05 | 5.66E-06 | | |
| 2696 | 257021.83 | 4086038.99 | 1.54E-05 | 2.23E-04 | 1.64E-04 | 1.64E-04 | 9.15E-05 | 2.34E-06 | 3.39E-05 | 2.56E-05 | 2.56E-05 | 1.41E-05 | 1.27E-06 | 1.84E-05 | 1.14E-05 | 1.14E-05 | 5.65E-06 | | |
| 2697 | 256999.13 | 4086030.7 | 1.54E-05 | 2.22E-04 | 1.64E-04 | 1.64E-04 | 9.13E-05 | 2.33E-06 | 3.38E-05 | 2.56E-05 | 2.56E-05 | 1.41E-05 | 1.27E-06 | 1.83E-05 | 1.14E-05 | 1.14E-05 | 5.63E-06 | | |
| 2698 | 256976.44 | 4086022.41 | 1.53E-05 | 2.22E-04 | 1.63E-04 | 1.63E-04 | 9.11E-05 | 2.33E-06 | 3.38E-05 | 2.55E-05 | 2.55E-05 | 1.40E-05 | 1.26E-06 | 1.83E-05 | 1.13E-05 | 1.13E-05 | 5.62E-06 | | |
| 2699 | 256953.75 | 4086014.12 | 1.53E-05 | 2.21E-04 | 1.63E-04 | 1.63E-04 | 9.09E-05 | 2.32E-06 | 3.37E-05 | 2.54E-05 | 2.54E-05 | 1.40E-05 | 1.26E-06 | 1.82E-05 | 1.13E-05 | 1.13E-05 | 5.60E-06 | | |
| 2700 | 256931.06 | 4086005.83 | 1.53E-05 | 2.21E-04 | 1.63E-04 | 1.63E-04 | 9.07E-05 | 2.32E-06 | 3.36E-05 | 2.54E-05 | 2.54E-05 | 1.40E-05 | 1.26E-06 | 1.82E-05 | 1.13E-05 | 1.13E-05 | 5.59E-06 | | |
| 2701 | 256908.36 | 4085997.54 | 1.52E-05 | 2.20E-04 | 1.62E-04 | 1.62E-04 | 9.05E-05 | 2.31E-06 | 3.36E-05 | 2.53E-05 | 2.53E-05 | 1.39E-05 | 1.26E-06 | 1.82E-05 | 1.13E-05 | 1.13E-05 | 5.58E-06 | | |
| 2702 | 256885.67 | 4085989.25 | 1.52E-05 | 2.20E-04 | 1.62E-04 | 1.62E-04 | 9.03E-05 | 2.31E-06 | 3.35E-05 | 2.53E-05 | 2.53E-05 | 1.39E-05 | 1.25E-06 | 1.81E-05 | 1.13E-05 | 1.13E-05 | 5.57E-06 | | |
| 2703 | 256862.98 | 4085980.96 | 1.52E-06 | 2.19E-04 | 1.62E-04 | 1.62E-04 | 9.02E-05 | 2.30E-06 | 3.34E-05 | 2.52E-05 | 2.52E-05 | 1.39E-05 | 1.25E-06 | 1.81E-05 | 1.12E-05 | 1.12E-05 | 5.56E-06 | | |
| 2704 | 256840.29 | 4085972.67 | 1.51E-05 | 2.19E-04 | 1.61E-04 | 1.61E-04 | 9.00E-06 | 2.30E-06 | 3.33E-05 | 2.52E-05 | 2.52E-05 | 1.38E-05 | 1.25E-06 | 1.80E-05 | 1.12E-05 | 1.12E-05 | 5.55E-06 | | |
| 2705 | 256807.49 | 4085942.44 | 1.53E-05 | 2.22E-04 | 1.64E-04 | 1.64E-04 | 9.12E-05 | 2.33E-06 | 3.38E-05 | 2.55E-05 | 2.55E-05 | 1.40E-05 | 1.26E-06 | 1.83E-05 | 1.14E-05 | 1.14E-05 | 5.62E-06 | | |
| 2706 | 256797.38 | 4085920.49 | 1.56E-05 | 2.25E-04 | 1.66E-04 | 1.66E-04 | 9.25E-05 | 2.36E-06 | 3.43E-05 | 2.59E-05 | 2.59E-05 | 1.42E-05 | 1.28E-06 | 1.86E-05 | 1.15E-05 | 1.15E-05 | 5.71E-06 | | |
| 2707 | 256787.28 | 4085898.55 | 1.58E-05 | 2.28E-04 | 1.68E-04 | 1.68E-04 | 9.38E-05 | 2.39E-06 | 3.48E-06 | 2.63E-05 | 2.63E-05 | 1.44E-05 | 1.30E-06 | 1.88E-05 | 1.17E-05 | 1.17E-05 | 5.78E-06 | | |
| 2708 | 256777.17 | 4085876.61 | 1.59E-05 | 2.31E-04 | 1.70E-04 | 1.70E-04 | 9.48E-05 | 2.42E-06 | 3.51E-05 | 2.65E-05 | 2.65E-05 | 1.46E-05 | 1.31E-06 | 1.90E-05 | 1.18E-05 | 1.18E-05 | 5.84E-06 | | |
| 2709 | 256767.07 | 4085854.66 | 1.61E-05 | 2.32E-04 | 1.71E-04 | 1.71E-04 | 9.55E-06 | 2.44E-06 | 3.54E-05 | 2.67E-05 | 2.67E-05 | 1.47E-05 | 1.32E-06 | 1.92E-05 | 1.19E-05 | 1.19E-05 | 5.89E-06 | | |
| 2710 | 256756.96 | 4085832.72 | 1.61E-05 | 2.33E-04 | 1.72E-04 | 1.72E-04 | 9.58E-05 | 2.45E-06 | 3.55E-06 | 2.68E-06 | 2.68E-06 | 1.48E-06 | 1.33E-06 | 1.92E-05 | 1.19E-05 | 1.19E-05 | 5.91E-06 | | |
| 2711 | 256746.86 | 4085810.77 | 1.61E-06 | 2.33E-04 | 1.72E-04 | 1.72E-04 | 9.58E-05 | 2.45E-06 | 3.55E-06 | 2.68E-05 | 2.68E-05 | 1.47E-06 | 1.33E-06 | 1.92E-05 | 1.19E-05 | 1.19E-05 | 5.91E-06 | | |
| 2712 | 256736.75 | 4085788.83 | 1.60E-05 | 2.32E-04 | 1.71E-04 | 1.71E-04 | 9.53E-05 | 2.43E-06 | 3.53E-05 | 2.67E-05 | 2.67E-05 | 1.47E-05 | 1.32E-06 | 1.91E-05 | 1.19E-05 | 1.19E-05 | 5.88E-06 | | |
| 2713 | 256726.65 | 4085766.88 | 1.59E-05 | 2.30E-04 | 1.69E-04 | 1.69E-04 | 9.43E-05 | 2.41E-06 | 3.50E-05 | 2.64E-05 | 2.64E-05 | 1.45E-05 | 1.31E-06 | 1.89E-05 | 1.18E-05 | 1.18E-05 | 5.82E-06 | | |
| 2714 | 256716.54 | 4085744.94 | 1.56E-05 | 2.26E-04 | 1.67E-04 | 1.67E-04 | 9.28E-05 | 2.37E-06 | 3.44E-05 | 2.60E-05 | 2.60E-05 | 1.43E-05 | 1.29E-06 | 1.86E-05 | 1.16E-05 | 1.16E-05 | 5.73E-06 | | |
| 2715 | 256706.44 | 4085722.99 | 1.53E-05 | 2.21E-04 | 1.63E-04 | 1.63E-04 | 9.09E-05 | 2.32E-06 | 3.37E-05 | 2.55E-05 | 2.55E-05 | 1.40E-05 | 1.26E-06 | 1.82E-05 | 1.13E-05 | 1.13E-05 | 5.61E-06 | | |
| 2716 | 256696.33 | 4085701.05 | 1.49E-05 | 2.16E-04 | 1.59E-04 | 1.59E-04 | 8.86E-05 | 2.26E-06 | 3.29E-06 | 2.48E-05 | 2.48E-05 | 1.36E-05 | 1.23E-06 | 1.78E-05 | 1.10E-05 | 1.10E-05 | 5.47E-06 | | |
| 2717 | 256686.23 | 4085679.11 | 1.44E-05 | 2.09E-04 | 1.54E-04 | 1.54E-04 | 8.58E-05 | 2.19E-06 | 3.18E-05 | 2.40E-05 | 2.40E-05 | 1.32E-05 | 1.19E-06 | 1.72E-05 | 1.07E-05 | 1.07E-05 | 5.29E-06 | | |
| 2718 | 256676.12 | 4085657.16 | 1.39E-05 | 2.01E-04 | 1.48E-04 | 1.48E-04 | 8.25E-05 | 2.11E-06 | 3.06E-05 | 2.31E-05 | 2.31E-05 | 1.27E-05 | 1.14E-06 | 1.65E-05 | 1.03E-05 | 1.03E-05 | 5.09E-06 | | |
| 2719 | 256666.02 | 4085635.22 | 1.33E-05 | 1.92E-04 | 1.41E-04 | 1.41E-04 | 7.88E-05 | 2.01E-06 | 2.92E-05 | 2.21E-05 | 2.21E-05 | 1.21E-05 | 1.09E-06 | 1.58E-05 | 9.82E-06 | 9.82E-06 | 4.85E-06 | | |
| 2720 | 256655.91 | 4085613.27 | 1.26E-05 | 1.82E-04 | 1.34E-04 | 1.34E-04 | 7.48E-05 | 1.91E-06 | 2.77E-05 | 2.10E-05 | 2.10E-05 | 1.15E-05 | 1.04E-06 | 1.50E-05 | 9.33E-06 | 9.33E-06 | 4.62E-06 | | |
| 2721 | 256645.81 | 4085591.33 | 1.19E-05 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.07E-05 | 1.81E-06 | 2.62E-05 | 1.98E-05 | 1.98E-05 | 1.09E-05 | 9.81E-07 | 1.42E-05 | 8.81E-06 | 8.81E-06 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2517 | 257264.51 | 4085734.5 | 2.80E-05 | 4.04E-04 | 2.98E-04 | 2.98E-04 | 1.66E-04 | 4.24E-06 | 6.16E-05 | 4.65E-05 | 4.65E-05 | 2.56E-05 | 2.31E-06 | 3.33E-05 | 2.07E-05 | 2.07E-05 | 1.03E-05 |
| 2518 | 257242.53 | 4085726.47 | 2.78E-05 | 4.03E-04 | 2.97E-04 | 2.97E-04 | 1.65E-04 | 4.23E-06 | 6.14E-05 | 4.63E-05 | 4.63E-05 | 2.55E-05 | 2.30E-06 | 3.32E-05 | 2.06E-05 | 2.06E-05 | 1.02E-05 |
| 2519 | 257220.56 | 4085716.45 | 2.77E-05 | 4.00E-04 | 2.95E-04 | 2.95E-04 | 1.65E-04 | 4.20E-06 | 6.10E-05 | 4.61E-05 | 4.61E-05 | 2.53E-05 | 2.28E-06 | 3.30E-05 | 2.05E-05 | 2.05E-05 | 1.01E-05 |
| 2520 | 257198.58 | 4085710.42 | 2.74E-05 | 3.97E-04 | 2.93E-04 | 2.93E-04 | 1.63E-04 | 4.17E-06 | 6.05E-05 | 4.57E-05 | 4.57E-05 | 2.51E-05 | 2.26E-06 | 3.27E-05 | 2.03E-05 | 2.03E-05 | 1.01E-05 |
| 2521 | 257176.61 | 4085702.39 | 2.71E-05 | 3.92E-04 | 2.89E-04 | 2.89E-04 | 1.61E-04 | 4.12E-06 | 5.98E-05 | 4.52E-05 | 4.52E-05 | 2.48E-05 | 2.24E-06 | 3.23E-05 | 2.01E-05 | 2.01E-05 | 9.95E-06 |
| 2522 | 257154.63 | 4085694.36 | 2.68E-05 | 3.87E-04 | 2.86E-04 | 2.86E-04 | 1.59E-04 | 4.07E-06 | 5.90E-05 | 4.46E-05 | 4.46E-05 | 2.45E-05 | 2.21E-06 | 3.19E-05 | 1.98E-05 | 1.98E-05 | 9.82E-06 |
| 2523 | 257132.66 | 4085686.34 | 2.64E-05 | 3.82E-04 | 2.82E-04 | 2.82E-04 | 1.57E-04 | 4.01E-06 | 5.82E-05 | 4.40E-05 | 4.40E-05 | 2.42E-05 | 2.18E-06 | 3.15E-05 | 1.96E-05 | 1.96E-05 | 9.69E-06 |
| 2524 | 257110.68 | 4085678.31 | 2.60E-05 | 3.77E-04 | 2.78E-04 | 2.78E-04 | 1.55E-04 | 3.95E-06 | 5.74E-05 | 4.34E-05 | 4.34E-05 | 2.38E-05 | 2.15E-06 | 3.11E-05 | 1.93E-05 | 1.93E-05 | 9.55E-06 |
| 2525 | 257078.92 | 4085649.03 | 2.59E-05 | 3.75E-04 | 2.76E-04 | 2.76E-04 | 1.54E-04 | 3.93E-06 | 5.71E-05 | 4.32E-05 | 4.32E-05 | 2.37E-05 | 2.14E-06 | 3.09E-05 | 1.92E-05 | 1.92E-05 | 9.50E-06 |
| 2526 | 257069.14 | 4085627.78 | 2.61E-05 | 3.78E-04 | 2.78E-04 | 2.78E-04 | 1.55E-04 | 3.96E-06 | 5.76E-05 | 4.35E-05 | 4.35E-05 | 2.39E-05 | 2.15E-06 | 3.11E-05 | 1.93E-05 | 1.93E-05 | 9.58E-06 |
| 2527 | 257059.35 | 4085606.53 | 2.62E-05 | 3.79E-04 | 2.79E-04 | 2.79E-04 | 1.56E-04 | 3.98E-06 | 5.77E-05 | 4.36E-05 | 4.36E-05 | 2.40E-05 | 2.16E-06 | 3.12E-05 | 1.94E-05 | 1.94E-05 | 9.60E-06 |
| 2528 | 257049.57 | 4085585.28 | 2.61E-05 | 3.78E-04 | 2.79E-04 | 2.79E-04 | 1.55E-04 | 3.97E-06 | 5.76E-05 | 4.35E-05 | 4.35E-05 | 2.39E-05 | 2.15E-06 | 3.12E-06 | 1.94E-05 | 1.94E-05 | 9.58E-06 |
| 2529 | 257039.78 | 4085564.03 | 2.59E-05 | 3.75E-04 | 2.76E-04 | 2.76E-04 | 1.54E-04 | 3.93E-06 | 5.71E-05 | 4.31E-05 | 4.31E-05 | 2.37E-05 | 2.14E-06 | 3.09E-05 | 1.92E-05 | 1.92E-05 | 9.50E-06 |
| 2530 | 257029.99 | 4085542.78 | 2.55E-05 | 3.69E-04 | 2.72E-04 | 2.72E-04 | 1.52E-04 | 3.87E-06 | 5.62E-05 | 4.24E-05 | 4.24E-05 | 2.33E-05 | 2.10E-06 | 3.04E-05 | 1.89E-05 | 1.89E-05 | 9.35E-06 |
| 2531 | 257020.21 | 4085521.53 | 2.49E-05 | 3.60E-04 | 2.65E-04 | 2.65E-04 | 1.48E-04 | 3.78E-06 | 5.49E-05 | 4.14E-05 | 4.14E-05 | 2.28E-05 | 2.05E-06 | 2.97E-05 | 1.84E-05 | 1.84E-05 | 9.13E-06 |
| 2532 | 257010.42 | 4085500.28 | 2.41E-05 | 3.49E-04 | 2.57E-04 | 2.57E-04 | 1.43E-04 | 3.66E-06 | 5.31E-06 | 4.01E-05 | 4.01E-05 | 2.21E-05 | 1.99E-06 | 2.87E-05 | 1.79E-05 | 1.79E-05 | 8.84E-06 |
| 2533 | 257000.64 | 4085479.03 | 2.31E-05 | 3.35E-04 | 2.47E-04 | 2.47E-04 | 1.38E-04 | 3.51E-06 | 5.10E-05 | 3.85E-05 | 3.85E-05 | 2.12E-05 | 1.91E-06 | 2.76E-05 | 1.71E-05 | 1.71E-05 | 8.48E-06 |
| 2534 | 256990.85 | 4085457.78 | 2.20E-05 | 3.18E-04 | 2.35E-04 | 2.35E-04 | 1.31E-04 | 3.34E-06 | 4.85E-05 | 3.66E-05 | 3.66E-05 | 2.01E-05 | 1.81E-06 | 2.62E-05 | 1.63E-05 | 1.63E-05 | 8.06E-06 |
| 2535 | 256981.07 | 4085436.52 | 2.07E-05 | 3.00E-04 | 2.21E-04 | 2.21E-04 | 1.23E-04 | 3.15E-06 | 4.57E-05 | 3.45E-05 | 3.45E-05 | 1.90E-05 | 1.71E-06 | 2.47E-05 | 1.54E-05 | 1.54E-05 | 7.60E-06 |
| 2536 | 256971.28 | 4085415.27 | 1.94E-05 | 2.81E-04 | 2.07E-04 | 2.07E-04 | 1.15E-04 | 2.94E-06 | 4.27E-05 | 3.23E-05 | 3.23E-05 | 1.78E-05 | 1.60E-06 | 2.31E-05 | 1.44E-05 | 1.44E-05 | 7.11E-06 |
| 2537 | 256961.5 | 4085394.02 | 1.80E-05 | 2.61E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.74E-06 | 3.97E-05 | 3.00E-05 | 3.00E-05 | 1.65E-05 | 1.49E-06 | 2.15E-05 | 1.34E-05 | 1.34E-05 | 6.61E-06 |
| 2558 | 256951.71 | 4085372.77 | 1.67E-05 | 2.41E-04 | 1.78E-04 | 1.78E-04 | 9.92E-05 | 2.53E-06 | 3.68E-05 | 2.78E-05 | 2.78E-05 | 1.53E-05 | 1.38E-06 | 1.99E-05 | 1.24E-06 | 1.24E-05 | 6.12E-06 |
| 2539 | 256941.92 | 4085351.52 | 1.54E-05 | 2.23E-04 | 1.64E-04 | 1.64E-04 | 9.16E-05 | 2.34E-06 | 3.40E-05 | 2.57E-05 | 2.57E-05 | 1.41E-05 | 1.27E-06 | 1.84E-05 | 1.14E-05 | 1.14E-05 | 5.65E-06 |
| 2540 | 256932.14 | 4085330.27 | 1.43E-05 | 2.06E-04 | 1.52E-04 | 1.52E-04 | 8.47E-05 | 2.16E-06 | 3.14E-05 | 2.37E-05 | 2.37E-05 | 1.30E-05 | 1.18E-06 | 1.70E-05 | 1.06E-05 | 1.06E-05 | 5.23E-06 |
| 2541 | 256922.35 | 4085309.02 | 1.32E-05 | 1.91E-04 | 1.41E-04 | 1.41E-04 | 7.86E-06 | 2.01E-06 | 2.91E-05 | 2.20E-05 | 2.20E-05 | 1.21E-05 | 1.09E-06 | 1.58E-05 | 9.79E-06 | 9.79E-06 | 4.85E-06 |
| 2542 | 256912.57 | 4085287.77 | 1.23E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 2543 | 256902.78 | 4085266.52 | 1.16E-05 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.89E-05 | 1.76E-06 | 2.56E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.56E-07 | 1.38E-05 | 8.59E-06 | 8.59E-06 | 4.25E-06 |
| 2544 | 256893 | 4085245.27 | 1.10E-05 | 1.59E-04 | 1.17E-04 | 1.17E-04 | 6.53E-05 | 1.67E-06 | 2.42E-05 | 1.83E-05 | 1.83E-05 | 1.00E-05 | 9.05E-07 | 1.31E-05 | 8.13E-06 | 8.13E-06 | 4.02E-06 |
| 2545 | 256883.21 | 4085224.02 | 1.05E-05 | 1.51E-04 | 1.12E-04 | 1.12E-04 | 6.22E-05 | 1.59E-06 | 2.31E-05 | 1.74E-05 | 1.74E-05 | 9.57E-06 | 8.62E-07 | 1.25E-05 | 7.75E-06 | 7.75E-06 | 3.84E-06 |
| 2546 | 256873.43 | 4085202.77 | 1.00E-06 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.96E-05 | 1.52E-06 | 2.21E-05 | 1.67E-05 | 1.67E-05 | 9.18E-06 | 8.27E-07 | 1.20E-05 | 7.43E-06 | 7.43E-06 | 3.68E-06 |
| 2547 | 257594.13 | 4085854.91 | 2.36E-05 | 3.42E-04 | 2.52E-04 | 2.52E-04 | 1.40E-04 | 3.58E-06 | 5.20E-05 | 3.93E-05 | 3.93E-05 | 2.16E-05 | 1.95E-06 | 2.82E-05 | 1.75E-05 | 1.75E-05 | 8.66E-06 |
| 2548 | 257618.41 | 4085853.84 | 2.36E-06 | 3.41E-04 | 2.51E-04 | 2.51E-04 | 1.40E-04 | 3.58E-06 | 5.70E-05 | 3.93E-05 | 3.93E-05 | 2.16E-05 | 1.94E-06 | 2.81E-05 | 1.75E-05 | 1.75E-05 | 8.65E-06 |
| 2549 | 257642.7 | 4085852.76 | 2.35E-05 | 3.40E-04 | 2.51E-04 | 2.51E-04 | 1.40E-04 | 3.57E-06 | 5.18E-05 | 3.92E-05 | 3.92E-05 | 2.15E-05 | 1.94E-06 | 2.81E-05 | 1.74E-05 | 1.74E-05 | 8.63E-06 |
| 2550 | 257666.98 | 4085851.69 | 2.34E-05 | 3.39E-04 | 2.50E-04 | 2.50E-04 | 1.39E-04 | 3.56E-06 | 5.16E-05 | 3.90E-05 | 3.90E-05 | 2.14E-05 | 1.93E-06 | 2.79E-05 | 1.74E-05 | 1.74E-05 | 8.59E-06 |
| 2551 | 257691.26 | 4085850.61 | 2.33E-05 | 3.37E-04 | 2.48E-04 | 2.48E-04 | 1.38E-04 | 3.53E-06 | 5.13E-05 | 3.88E-05 | 3.88E-05 | 2.13E-05 | 1.92E-06 | 2.78E-05 | 1.72E-05 | 1.72E-05 | 8.54E-06 |
| 2552 | 257715.54 | 4085849.54 | 2.31E-05 | 3.34E-04 | 2.46E-04 | 2.46E-04 | 1.37E-04 | 3.51E-06 | 5.09E-05 | 3.84E-05 | 3.84E-05 | 2.11E-05 | 1.90E-06 | 2.75E-05 | 1.71E-05 | 1.71E-05 | 8.47E-06 |
| 2553 | 257739.82 | 4085848.46 | 2.29E-05 | 3.31E-04 | 2.44E-04 | 2.44E-04 | 1.36E-04 | 3.47E-06 | 5.04E-05 | 3.80E-05 | 3.80E-05 | 2.09E-05 | 1.88E-06 | 2.72E-05 | 1.69E-05 | 1.69E-05 | 8.38E-06 |
| 2554 | 257764.11 | 4085847.39 | 2.25E-05 | 3.25E-04 | 2.39E-04 | 2.39E-04 | 1.33E-04 | 3.41E-06 | 4.95E-05 | 3.74E-05 | 3.74E-05 | 2.05E-05 | 1.85E-06 | 2.68E-05 | 1.66E-05 | 1.66E-05 | 8.23E-06 |
| 2555 | 257788.39 | 4085846.31 | 2.21E-05 | 3.20E-04 | 2.36E-04 | 2.36E-04 | 1.31E-04 | 3.35E-06 | 4.87E-05 | 3.68E-05 | 3.68E-05 | 2.02E-05 | 1.82E-06 | 2.64E-05 | 1.64E-05 | 1.64E-05 | 8.10E-06 |
| 2556 | 257812.67 | 4085845.24 | 2.17E-05 | 3.14E-04 | 2.32E-04 | 2.32E-04 | 1.29E-04 | 3.30E-06 | 4.79E-05 | 3.62E-05 | 3.62E-05 | 1.99E-05 | 1.79E-06 | 2.59E-05 | 1.61E-05 | 1.61E-05 | 7.97E-06 |
| 2557 | 257836.95 | 4085844.16 | 2.13E-05 | 3.09E-04 | 2.27E-04 | 2.27E-04 | 1.27E-04 | 3.24E-06 | 4.70E-05 | 3.55E-05 | 3.55E-05 | 1.95E-05 | 1.76E-06 | 2.54E-05 | 1.58E-05 | 1.58E-05 | 7.82E-06 |
| 2558 | 257861.23 | 4085843.08 | 2.09E-05 | 3.03E-04 | 2.23E-04 | 2.23E-04 | 1.24E-04 | 3.17E-06 | 4.61E-06 | 3.48E-05 | 3.48E-05 | 1.91E-05 | 1.72E-06 | 2.49E-05 | 1.55E-05 | 1.55E-05 | 7.67E-06 |
| 2559 | 257885.51 | 4085842.01 | 2.05E-05 | 2.96E-04 | 2.18E-04 | 2.18E-04 | 1.22E-04 | 3.11E-06 | 4.51E-05 | 3.41E-05 | 3.41E-05 | 1.87E-06 | 1.69E-06 | 2.44E-05 | 1.52E-05 | 1.52E-05 | 7.51E-06 |
| 2560 | 257909.8 | 4085840.93 | 2.00E-05 | 2.90E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.04E-06 | 4.41E-05 | 3.33E-05 | 3.33E-05 | 1.83E-05 | 1.65E-06 | 2.39E-05 | 1.48E-05 | 1.48E-05 | 7.34E-06 |
| 2561 | 257934.08 | 4085839.86 | 1.96E-05 | 2.83E-04 | 2.08E-04 | 2.08E-04 | 1.16E-04 | 2.97E-06 | 4.31E-05 | 3.25E-05 | 3.25E-05 | 1.79E-05 | 1.61E-06 | 2.33E-05 | 1.45E-05 | 1.45E-05 | 7.17E-06 |
| 2562 | 257958.36 | 4085838.78 | 1.91E-05 | 2.76E-04 | 2.03E-04 | 2.03E-04 | 1.13E-04 | 2.90E-06 | 4.21E-05 | 3.18E-05 | 3.18E-05 | 1.75E-05 | 1.57E-06 | 2.28E-05 | 1.41E-05 | 1.41E-05 | 7.00E-06 |
| 2563 | 257982.64 | 4085837.71 | 1.85E-05 | 2.69E-04 | 1.98E-04 | 1.98E-04 | 1.11E-04 | 2.83E-06 | 4.10E-05 | 3.10E-05 | 3.10E-05 | 1.70E-05 | 1.53E-06 | 2.22E-05 | 1.58E-05 | 1.38E-05 | 6.82E-06 |
| 2564 | 258006.92 | 4085836.63 | 1.82E-05 | 2.63E-04 | 1.94E-04 | 1.94E-04 | 1.08E-04 | 2.76E-06 | 4.00E-05 | 3.02E-05 | 3.02E-05 | 1.66E-05 | 1.50E-06 | 2.16E-05 | 1.34E-05 | 1.34E-05 | 6.66E-06 |
| 2565 | 258031.21 | 4085835.56 | 1.77E-05 | 2.56E-04 | 1.89E-04 | 1.89E-04 | 1.05E-04 | 2.69E-06 | 3.90E-05 | 2.95E-05 | 2.95E-05 | 1.62E-05 | 1.46E-06 | 2.11E-05 | 1.31E-05 | 1.31E-05 | 6.49E-06 |
| 2566 | 258055.49 | 4085834.48 | 1.73E-05 | 2.50E-04 | 1.84E-04 | 1.84E-04 | 1.03E-04 | 2.62E-06 | 3.80E-05 | 2.87E-05 | 2.87E-05 | 1.58E-05 | 1.42E-06 | 2.06E-05 | 1.28E-05 | 1.28E-05 | 6.32E-06 |
| 2567 | 258079.77 | 4085833.41 | 1.68E-05 | 2.43E-04 | 1.79E-04 | 1.79E-04 | 9.99E-05 | 2.55E-06 | 3.70E-05 | 2.80E-05 | 2.80E-05 | 1.54E-05 | 1.39E-06 | 2.00E-05 | 1.24E-05 | 1.24E-05 | 6.16E-06 |
| 2568 | 258104.05 | 4085832.33 | 1.64E-05 | 2.37E-04 | 1.74E-04 | 1.74E-04 | 9.73E-05 | 2.48E-06 | 3.61E-05 | 2.72E-05 | 2.72E-05 | 1.50E-05 | 1.35E-06 | 1.95E-05 | 1.21E-05 | 1.21E-05 | 6.00E-06 |
| 2569 | 258128.33 | 4085831.25 | 1.59E-05 | 2.30E-04 | 1.70E-04 | 1.70E-04 | 9.46E-05 | 2.41E-06 | 3.51E-05 | 2.65E-05 | 2.65E-05 | 1.46E-05 | 1.31E-06 | 1.90E-05 | 1.18E-05 | 1.18E-05 | 5.83E-06 |
| 2570 | 258152.61 | 4085830.18 | 1.54E-05 | 2.23E-04 | 1.65E-04 | 1.65E-04 | 9.18E-05 | 2.34E-06 | 3.40E-05 | 2.57E-05 | 2.57E-05 | 1.41E-05 | 1.27E-06 | 1.84E-05 | 1.14E-05 | 1.14E-05 | 5.66E-06 |
| 2571 | 258176.9 | 4085829.1 | 1.50E-05 | 2.16E-04 | 1.59E-04 | 1.59E-04 | 8.89E-05 | 2.27E-06 | 3.29E-05 | 2.49E-05 | 2.49E-05 | 1.37E-05 | 1.23E-06 | 1.78E-05 | 1.11E-05 | 1.11E-05 | 5.48E-06 |
| 2572 | 258201.18 | 4085828.03 | 1.45E-05 | 2.09E-04 | 1.54E-04 | 1.54E-04 | 8.59E-05 | 2.19E-06 | 3.18E-05 | 2.41E-05 | 2.41E-05 | 1.32E-05 | 1.19E-06 | 1.72E-05 | 1.07E-05 | 1.07E-05 | 5.30E-06 |
| 2573 | 258225.46 | 4085826.95 | 1.40E-05 | 2.02E-04 | 1.49E-04 | 1.49E-04 | 8.29E-05 | 2.12E-06 | 3.07E-05 | 2.32E-05 | 2.32E-05 | 1.28E-05 | 1.15E-06 | 1.66E-05 | 1.03E-05 | 1.03E-05 | 5.12E-06 |
| 2574 | 258249.74 | 4085825.88 | 1.35E-05 | 1.95E-04 | 1.43E-04 | 1.43E-04 | 8.00E-05 | 2.04E-06 | 2.97E-05 | 2.24E-05 | 2.24E-05 | 1.23E-05 | 1.11E-06 | 1.60E-05 | 9.97E-06 | 9.97E-06 | 4.93E-06 |
| 2575 | 258274.02 | 4085824.8 | 1.30E-05 | 1.88E-04 | 1.38E-04 | 1.38E-04 | 7.71E-05 | 1.97E-06 | 2.86E-05 | 2.16E-05 | 2.16E-05 | 1.19E-05 | 1.07E-06 | 1.55E-05 | 9.60E-06 | 9.60E-06 | 4.75E-06 |
| 2576 | 258298.31 | 4085823.73 | 1.25E-05 | 1.81E-04 | 1.33E-04 | 1.33E-04 | 7.42E-05 | 1.90E-06 | 2.75E-05 | 2.08E-05 | 2.08E-05 | 1.14E-05 | 1.03E-06 | 1.49E-06 | 9.25E-06 | 9.25E-06 | 4.58E-06 |
| 2577 | 258322.59 | 4085822.65 | 1.20E-05 | 1.74E-04 | 1.28E-04 | 1.28E-04 | 7.14E-05 | 1.82E-06 | 2.65E-05 | 2.00E-05 | 2.00E-05 | 1.10E-05 | 9.90E-07 | 1.43E-05 | 8.90E-06 | 8.90E-06 | 4.40E-06 |
| 2578 | 258346.87 | 4085821.58 | 1.16E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.87E-05 | 1.75E-06 | 2.55E-05 | 1.92E-05 | 1.92E-05 | 1.06E-05 | 9.52E-07 | 1.38E-05 | 8.56E-06 | 8.56E-06 | 4.24E-06 |
| 2579 | 258371.15 | 4085820.5 | 1.11E-05 | 1.61E-04 | 1.18E-04 | 1.18E-04 | 6.60E-05 | 1.69E-06 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.02E-05 | 9.15E-07 | 1.32E-05 | 8.23E-06 | 8.23E-06 | 4.07E-06 |
| 2580 | 258395.43 | 4085819.42 | 1.07E-05 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.34E-05 | 1.62E-06 | 2.35E-05 | 1.78E-05 | 1.78E-05 | 9.77E-06 | 8.80E-07 | 1.27E-05 | 7.90E-06 | 7.90E-06 | 3.91E-06 |
| 2581 | 257580.57 | 4086046.53 | 1.64E-05 | 2.37E-04 | 1.74E-04 | 1.74E-04 | 9.72E-05 | 2.48E-06 | 3.61E-05 | 2.72E-05 | 2.72E-05 | 1.50E-05 | 1.35E-06 | 1.95E-05 | 1.21E-05 | 1.21E-05 | 6.00E-06 |
| 2582 | 257558.17 | 4086038.35 | 1.67E-05 | 2.41E-04 | 1.78E-04 | 1.78E-04 | 9.92E-05 | 2.53E-06 | 3.68E-05 | 2.78E-05 | 2.78E-05 | 1.53E-05 | 1.38E-06 | 1.99E-05 | 1.24E-05 | 1.24E-05 | 6.12E-06 |
| 2583 | 257535.76 | 4086030.16 | 1.70E-05 | 2.46E-04 | 1.81E-04 | 1.81E-04 | 1.01E-04 | 2.58E-06 | 3.75E-05 | 2.83E-05 | 2.83E-05 | 1.56E-05 | 1.40E-06 | 2.03E-05 | 1.26E-05 | 1.26E-05 | 6.24E-06 |
| 2584 | 257513.35 | 4086021.98 | 1.73E-05 | 2.50E-04 | 1.84E-04 | 1.84E-04 | 1.03E-04 | 2.63E-06 | 3.81E-05 | 2.88E-05 | 2.88E-05 | 1.58E-05 | 1.43E-06 | 2.06E-05 | 1.28E-05 | 1.28E-05 | 6.34E-06 |
| 2585 | 257490.94 | 4086013.79 | 1.76E-05 | 2.54E-04 | 1.87E-04 | 1.87E-04 | 1.04E-04 | 2.67E-06 | 3.87E-05 | 2.92E-05 | 2.92E-05 | 1.61E-05 | 1.45E-06 | 2.09E-05 | 1.30E-05 | 1.30E-05 | 6.44E-06 |
| 2586 | 257468.53 | 4086005.6 | 1.78E-05 | 2.58E-04 | 1.90E-04 | 1.90E-04 | 1.06E-04 | 2.70E-06 | 3.92E-05 | 2.96E-05 | 2.96E-05 | 1.63E-05 | 1.47E-06 | 2.12E-05 | 1.32E-05 | 1.32E-05 | 6.53E-06 |
| 2587 | 257446.13 | 4085997.42 | 1.80E-05 | 2.61E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.74E-06 | 3.98E-05 | 3.00E-05 | 3.00E-05 | 1.65E-05 | 1.49E-06 | 2.15E-05 | 1.34E-05 | 1.34E-05 | 6.61E-06 |
| 2588 | 257423.72 | 4085989.23 | 1.83E-05 | 2.64E-04 | 1.95E-04 | 1.95E-04 | 1.09E-04 | 2.77E-06 | 4.02E-05 | 3.04E-05 | 3.04E-05 | 1.67E-05 | 1.51E-06 | 2.18E-05 | 1.35E-05 | 1.35E-05 | 6.69E-06 |
| 2589 | 257401.31 | 4085981.05 | 1.85E-05 | 2.67E-04 | 1.97E-04 | 1.97E-04 | 1.10E-04 | 2.80E-06 | 4.07E-05 | 3.07E-05 | 3.07E-05 | 1.69E-05 | 1.52E-06 | 2.20E-05 | 1.37E-05 | 1.37E-05 | 6.77E-06 |
| 2590 | 257378.9 | 4085972.86 | 1.87E-05 | 2.70E-04 | 1.99E-04 | 1.99E-04 | 1.11E-04 | 2.83E-06 | 4.11E-06 | 3.11E-05 | 3.11E-05 | 1.71E-05 | 1.54E-06 | 2.23E-05 | 1.38E-05 | 1.38E-05 | 6.85E-06 |
| 2591 | 257356.49 | 4085964.68 | 1.89E-05 | 2.73E-04 | 2.01E-04 | 2.01E-04 | 1.12E-04 | 2.86E-06 | 4.16E-05 | 3.14E-05 | 3.14E-05 | 1.73E-05 | 1.56E-06 | 2.25E-05 | 1.40E-05 | 1.40E-05 | 6.92E-06 |
| 2592 | 257334.09 | 4085956.49 | 1.91E-06 | 2.76E-04 | 2.03E-04 | 2.03E-04 | 1.13E-04 | 2.90E-06 | 4.20E-05 | 3.18E-05 | 3.18E-05 | 1.75E-05 | 1.57E-06 | 2.27E-05 | 1.41E-05 | 1.41E-05 | 6.99E-06 |
| 2593 | 257311.68 | 4085948.3 | 1.93E-05 | 2.79E-04 | 2.06E-04 | 2.06E-04 | 1.15E-04 | 2.93E-06 | 4.25E-05 | 3.21E-05 | 3.21E-05 | 1.76E-05 | 1.59E-06 | 2.30E-05 | 1.43E-05 | 1.43E-05 | 7.07E-06 |
| 2594 | 257289.27 | 4085940.12 | 1.95E-05 | 2.82E-04 | 2.08E-04 | 2.08E-04 | 1.16E-04 | 2.96E-06 | 4.30E-05 | 3.24E-05 | 3.24E-05 | 1.78E-05 | 1.61E-06 | 2.32E-05 | 1.44E-05 | 1.44E-05 | 7.15E-06 |
| 2595 | 257266.86 | 4085931.93 | 1.97E-05 | 2.85E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 2.99E-06 | 4.34E-05 | 3.28E-05 | 3.28E-05 | 1.80E-05 | 1.62E-06 | 2.35E-05 | 1.46E-05 | 1.46E-05 | 7.22E-06 |
| 2596 | 257244.45 | 4085923.75 | 1.99E-05 | 2.87E-04 | 2.12E-04 | 2.12E-04 | 1.18E-04 | 3.01E-06 | 4.38E-05 | 3.31E-05 | 3.31E-05 | 1.82E-05 | 1.64E-06 | 2.37E-05 | 1.47E-05 | 1.47E-05 | 7.28E-06 |
| 2597 | 257222.05 | 4085915.56 | 2.00E-05 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.04E-06 | 4.41E-05 | 3.33E-05 | 3.33E-05 | 1.83E-05 | 1.65E-06 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.33E-06 |
| 2598 | 257199.64 | 4085907.37 | 2.01E-05 | 2.91E-04 | 2.14E-04 | 2.14E-04 | 1.19E-04 | 3.05E-06 | 4.43E-05 | 3.34E-05 | 3.34E-05 | 1.84E-05 | 1.66E-06 | 2.40E-05 | 1.49E-05 | 1.49E-05 | 7.36E-06 |
| 2599 | 257177.23 | 4085899.19 | 2.01E-05 | 2.91E-04 | 2.15E-04 | 2.15E-04 | 1.20E-04 | 3.05E-06 | 4.43E-05 | 3.35E-05 | 3.35E-05 | 1.84E-06 | 1.66E-06 | 2.40E-05 | 1.49E-05 | 1.49E-05 | 7.38E-06 |
| 2600 | 257154.82 | 4085891 | 2.01E-05 | 2.91E-04 | 2.14E-04 | 2.14E-04 | 1.19E-04 | 3.05E-06 | 4.43E-05 | 3.35E-05 | 3.35E-05 | 1.84E-05 | 1.66E-06 | 2.40E-05 | 1.49E-05 | 1.49E-05 | 7.37E-06 |
| 2601 | 257132.41 | 4085882.82 | 2.00E-05 | 2.90E-04 | 2.14E-04 | 2.14E-04 | 1.19E-04 | 3.04E-06 | 4.42E-05 | 3.34E-05 | 3.34E-05 | 1.83E-05 | 1.65E-06 | 2.39E-05 | 1.48E-05 | 1.48E-05 | 7.35E-06 |
| 2602 | 257110.01 | 4085874.63 | 2.00E-05 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.03E-06 | 4.40E-05 | 3.32E-05 | 3.32E-05 | 1.83E-05 | 1.64E-06 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.32E-06 |
| 2603 | 257087.6 | 4085866.45 | 1.99E-05 | 2.87E-04 | 2.12E-04 | 2.12E-04 | 1.18E-04 | 3.01E-06 | 4.37E-05 | 3.30E-05 | 3.30E-05 | 1.82E-05 | 1.64E-06 | 2.37E-05 | 1.47E-05 | 1.47E-05 | 7.28E-06 |
| 2604 | 257065.19 | 4085858.26 | 1.97E-05 | 2.85E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 3.00E-06 | 4.35E-05 | 3.28E-05 | 3.28E-05 | 1.81E-05 | 1.63E-06 | 2.35E-05 | 1.46E-05 | 1.46E-05 | 7.23E-06 |
| 2605 | 257042.78 | 4085850.07 | 1.96E-05 | 2.84E-04 | 2.09E-04 | 2.09E-04 | 1.17E-04 | 2.98E-06 | 4.32E-05 | 3.27E-05 | 3.27E-05 | 1.80E-05 | 1.62E-06 | 2.34E-05 | 1.45E-05 | 1.45E-05 | 7.19E-06 |
| 2606 | 257020.37 | 4085841.89 | 1.95E-05 | 2.82E-04 | 2.08E-04 | 2.08E-04 | 1.16E-04 | 2.96E-06 | 4.30E-05 | 3.25E-05 | 3.25E-05 | 1.78E-05 | 1.61E-06 | 2.33E-05 | 1.44E-05 | 1.44E-05 | 7.15E-06 |
| 2607 | 256997.97 | 4085833.7 | 1.94E-05 | 2.80E-04 | 2.07E-04 | 2.07E-04 | 1.15E-04 | 2.94E-06 | 4.27E-05 | 3.23E-05 | 3.23E-05 | 1.77E-05 | 1.60E-06 | 2.31E-05 | 1.44E-05 | 1.44E-05 | 7.10E-06 |
| 2608 | 256975.56 | 4085825.52 | 1.92E-05 | 2.78E-04 | 2.05E-04 | 2.05E-04 | 1.14E-04 | 2.92E-06 | 4.24E-05 | 3.20E-05 | 3.20E-05 | 1.76E-05 | 1.59E-06 | 2.29E-05 | 1.43E-05 | 1.43E-05 | 7.06E-06 |
| 2609 | 256943.17 | 4085795.66 | 1.94E-05 | 2.80E-04 | 2.07E-04 | 2.07E-04 | 1.15E-04 | 2.94E-06 | 4.27E-05 | 3.23E-05 | 3.23E-05 | 1.77E-05 | 1.60E-06 | 2.31E-05 | 1.44E-05 | 1.44E-05 | 7.11E-06 |
| 2610 | 256933.19 | 4085773.99 | 1.95E-05 | 2.84E-04 | 2.09E-04 | 2.09E-04 | 1.17E-04 | 2.98E-06 | 4.33E-05 | 3.27E-05 | 3.27E-05 | 1.80E-05 | 1.62E-06 | 2.34E-05 | 1.45E-05 | 1.45E-05 | 7.20E-06 |
| 2611 | 256923.22 | 4085752.32 | 1.99E-05 | 2.87E-04 | 2.12E-04 | 2.12E-04 | 1.18E-04 | 3.01E-06 | 4.38E-05 | 3.31E-05 | 3.31E-06 | 1.82E-05 | 1.64E-06 | 2.37E-05 | 1.47E-05 | 1.47E-05 | 7.26E-06 |
| 2612 | 256913.24 | 4085730.65 | 2.00E-05 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.03E-06 | 4.40E-05 | 3.32E-05 | 3.32E-05 | 1.83E-05 | 1.65E-06 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.32E-06 |
| 2613 | 256903.26 | 4085708.99 | 2.00E-05 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.03E-06 | 4.40E-05 | 3.33E-05 | 3.33E-05 | 1.83E-05 | 1.65E-06 | 2.58E-05 | 1.48E-05 | 1.48E-05 | 7.33E-06 |
| 2614 | 256893.28 | 4085687.32 | 1.99E-05 | 2.88E-04 | 2.12E-04 | 2.12E-04 | 1.18E-04 | 3.02E-06 | 4.38E-05 | 3.31E-05 | 3.31E-05 | 1.82E-05 | 1.64E-06 | 2.37E-05 | 1.47E-05 | 1.47E-05 | 7.30E-06 |
| 2615 | 256883.3 | 4085665.65 | 1.97E-05 | 2.85E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 2.99E-06 | 4.34E-05 | 3.28E-05 | 3.28E-05 | 1.80E-05 | 1.62E-06 | 2.35E-05 | 1.46E-05 | 1.46E-05 | 7.22E-06 |
| 2616 | 256873.32 | 4085643.98 | 1.94E-05 | 2.80E-04 | 2.07E-04 | 2.07E-04 | 1.15E-04 | 2.94E-06 | 4.27E-05 | 3.23E-05 | 3.23E-05 | 1.77E-05 | 1.60E-06 | 2.31E-05 | 1.44E-05 | 1.44E-05 | 7.10E-06 |
| 2617 | 256863.35 | 4085622.31 | 1.89E-05 | 2.74E-04 | 2.02E-04 | 2.02E-04 | 1.13E-04 | 2.87E-06 | 4.17E-05 | 3.15E-05 | 3.15E-05 | 1.73E-05 | 1.56E-06 | 2.26E-06 | 1.40E-06 | 1.40E-05 | 6.94E-06 |
| 2618 | 256853.37 | 4085600.64 | 1.84E-05 | 2

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2412 | 257900.95 | 4085641.13 | 3.57E-05 | 5.16E-04 | 3.80E-04 | 3.80E-04 | 2.12E-04 | 5.42E-06 | 7.86E-05 | 5.94E-05 | 5.94E-05 | 3.27E-05 | 2.94E-06 | 4.25E-05 | 2.64E-05 | 2.64E-05 | 1.31E-05 |
| 2413 | 257925.23 | 4085640.05 | 3.50E-05 | 5.06E-04 | 3.73E-04 | 3.73E-04 | 2.08E-04 | 5.31E-06 | 7.71E-05 | 5.83E-05 | 5.83E-05 | 3.20E-05 | 2.89E-06 | 4.17E-05 | 2.59E-05 | 2.59E-05 | 1.28E-05 |
| 2414 | 257949.51 | 4085638.98 | 3.42E-05 | 4.95E-04 | 3.65E-04 | 3.65E-04 | 2.03E-04 | 5.20E-06 | 7.54E-05 | 5.70E-05 | 5.70E-05 | 3.13E-05 | 2.82E-06 | 4.08E-05 | 2.54E-05 | 2.54E-05 | 1.25E-05 |
| 2415 | 257973.79 | 4085637.9 | 3.34E-05 | 4.83E-04 | 3.56E-04 | 3.56E-04 | 1.98E-04 | 5.06E-06 | 7.35E-05 | 5.55E-05 | 5.55E-05 | 3.05E-05 | 2.75E-06 | 3.98E-05 | 2.47E-05 | 2.47E-05 | 1.22E-05 |
| 2416 | 257998.07 | 4085636.83 | 3.25E-05 | 4.70E-04 | 3.46E-04 | 3.46E-04 | 1.93E-04 | 4.93E-06 | 7.15E-05 | 5.40E-05 | 5.40E-05 | 2.97E-05 | 2.68E-06 | 3.87E-05 | 2.40E-05 | 2.40E-05 | 1.19E-05 |
| 2417 | 258022.36 | 4085635.75 | 3.15E-05 | 4.55E-04 | 3.36E-04 | 3.36E-04 | 1.87E-04 | 4.78E-06 | 6.93E-05 | 5.24E-05 | 5.24E-05 | 2.88E-05 | 2.59E-06 | 3.75E-05 | 2.33E-05 | 2.33E-05 | 1.15E-05 |
| 2418 | 258046.64 | 4085634.68 | 3.04E-05 | 4.40E-04 | 3.24E-04 | 3.24E-04 | 1.81E-04 | 4.61E-06 | 6.70E-05 | 5.06E-05 | 5.06E-05 | 2.78E-05 | 2.51E-06 | 3.63E-05 | 2.25E-05 | 2.25E-05 | 1.11E-05 |
| 2419 | 258070.92 | 4085633.6 | 2.93E-05 | 4.24E-04 | 3.13E-04 | 3.13E-04 | 1.74E-04 | 4.45E-06 | 6.46E-05 | 4.88E-05 | 4.88E-05 | 2.68E-05 | 2.42E-06 | 3.50E-05 | 2.17E-05 | 2.17E-05 | 1.07E-05 |
| 2420 | 258095.2 | 4085632.53 | 2.82E-05 | 4.09E-04 | 3.01E-04 | 3.01E-04 | 1.68E-04 | 4.29E-06 | 6.22E-05 | 4.70E-05 | 4.70E-05 | 2.59E-05 | 2.33E-06 | 3.37E-05 | 2.09E-05 | 2.09E-05 | 1.04E-05 |
| 2421 | 258119.48 | 4085631.45 | 2.72E-05 | 3.93E-04 | 2.90E-04 | 2.90E-04 | 1.62E-04 | 4.13E-06 | 5.99E-05 | 4.53E-05 | 4.53E-05 | 2.49E-05 | 2.24E-06 | 3.24E-05 | 2.01E-05 | 2.01E-05 | 9.97E-06 |
| 2422 | 258143.77 | 4085630.37 | 2.62E-05 | 3.79E-04 | 2.79E-04 | 2.79E-04 | 1.56E-04 | 3.97E-06 | 5.77E-05 | 4.36E-05 | 4.36E-05 | 2.40E-05 | 2.16E-06 | 3.12E-05 | 1.94E-05 | 1.94E-05 | 9.60E-06 |
| 2423 | 258168.05 | 4085629.3 | 2.52E-05 | 3.64E-04 | 2.68E-04 | 2.68E-04 | 1.50E-04 | 3.82E-06 | 5.55E-05 | 4.19E-05 | 4.19E-05 | 2.30E-05 | 2.08E-06 | 3.00E-05 | 1.68E-05 | 1.86E-05 | 9.23E-06 |
| 2424 | 258192.33 | 4085628.22 | 2.41E-05 | 3.49E-04 | 2.57E-04 | 2.57E-04 | 1.44E-04 | 3.66E-06 | 5.32E-05 | 4.02E-05 | 4.02E-05 | 2.21E-05 | 1.99E-06 | 2.88E-05 | 1.79E-05 | 1.79E-05 | 8.85E-06 |
| 2425 | 258216.61 | 4085627.15 | 2.30E-05 | 3.32E-04 | 2.45E-04 | 2.45E-04 | 1.37E-04 | 3.49E-06 | 5.06E-05 | 3.83E-05 | 3.83E-05 | 2.10E-05 | 1.89E-06 | 2.74E-05 | 1.70E-05 | 1.70E-05 | 8.42E-06 |
| 2426 | 258240.89 | 4085626.07 | 2.20E-05 | 3.18E-04 | 2.34E-04 | 2.34E-04 | 1.30E-04 | 3.33E-06 | 4.84E-05 | 3.65E-05 | 3.65E-05 | 2.01E-05 | 1.81E-06 | 2.62E-05 | 1.63E-05 | 1.63E-05 | 8.05E-06 |
| 2427 | 258265.17 | 4085625 | 2.09E-05 | 3.03E-04 | 2.23E-04 | 2.23E-04 | 1.24E-04 | 3.18E-06 | 4.61E-05 | 3.48E-05 | 3.48E-05 | 1.92E-05 | 1.73E-06 | 2.50E-05 | 1.55E-05 | 1.55E-05 | 7.67E-06 |
| 2428 | 258289.46 | 4085623.92 | 1.99E-05 | 2.88E-04 | 2.12E-04 | 2.12E-04 | 1.18E-04 | 3.02E-06 | 4.39E-05 | 3.32E-05 | 3.32E-05 | 1.82E-05 | 1.64E-06 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.30E-06 |
| 2429 | 258313.74 | 4085622.85 | 1.89E-05 | 2.74E-04 | 2.02E-04 | 2.02E-04 | 1.13E-04 | 2.87E-06 | 4.17E-05 | 3.15E-05 | 3.15E-05 | 1.73E-05 | 1.56E-06 | 2.26E-05 | 1.40E-05 | 1.40E-05 | 6.94E-06 |
| 2430 | 258338.02 | 4085621.77 | 1.80E-05 | 2.60E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.73E-06 | 3.96E-05 | 2.99E-05 | 2.99E-05 | 1.65E-05 | 1.48E-06 | 2.14E-05 | 1.33E-05 | 1.33E-05 | 6.59E-06 |
| 2431 | 258362.3 | 4085620.7 | 1.71E-05 | 2.47E-04 | 1.82E-04 | 1.82E-04 | 1.01E-04 | 2.59E-06 | 3.76E-05 | 2.84E-05 | 2.84E-05 | 1.56E-05 | 1.41E-06 | 2.03E-06 | 1.26E-05 | 1.26E-05 | 6.26E-06 |
| 2432 | 258386.58 | 4085619.62 | 1.63E-05 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.66E-05 | 2.47E-06 | 3.58E-05 | 2.71E-06 | 2.71E-05 | 1.49E-05 | 1.34E-06 | 1.94E-05 | 1.20E-05 | 1.20E-05 | 5.96E-06 |
| 2433 | 257566.91 | 4085746.68 | 3.04E-05 | 4.40E-04 | 3.24E-04 | 3.24E-04 | 1.81E-04 | 4.61E-06 | 6.70E-05 | 5.06E-05 | 5.06E-05 | 2.78E-05 | 2.51E-06 | 3.62E-05 | 2.25E-05 | 2.25E-05 | 1.11E-05 |
| 2434 | 257544.11 | 4085738.35 | 3.10E-05 | 4.48E-04 | 3.30E-04 | 3.30E-04 | 1.84E-04 | 4.70E-06 | 6.83E-05 | 5.16E-05 | 5.16E-05 | 2.84E-05 | 2.55E-06 | 3.70E-05 | 2.30E-05 | 2.30E-05 | 1.14E-05 |
| 2435 | 257521.3 | 4085730.02 | 3.16E-05 | 4.56E-04 | 3.36E-04 | 3.36E-04 | 1.88E-04 | 4.79E-06 | 6.95E-05 | 5.25E-05 | 5.25E-05 | 2.89E-05 | 2.60E-06 | 3.76E-05 | 2.34E-05 | 2.34E-05 | 1.16E-05 |
| 2436 | 257498.5 | 4085721.69 | 3.21E-05 | 4.64E-04 | 3.42E-04 | 3.42E-04 | 1.91E-04 | 4.87E-06 | 7.07E-05 | 5.34E-05 | 5.34E-05 | 2.93E-05 | 2.64E-06 | 3.82E-06 | 2.37E-05 | 2.37E-05 | 1.18E-05 |
| 2437 | 257475.7 | 4085713.37 | 3.25E-05 | 4.71E-04 | 3.47E-04 | 3.47E-04 | 1.93E-04 | 4.94E-06 | 7.17E-05 | 5.42E-05 | 5.42E-05 | 2.98E-05 | 2.68E-06 | 3.88E-05 | 2.41E-05 | 2.41E-05 | 1.19E-05 |
| 2438 | 257452.9 | 4085705.04 | 3.29E-05 | 4.77E-04 | 3.51E-04 | 3.51E-04 | 1.96E-04 | 5.00E-06 | 7.26E-05 | 5.48E-05 | 5.48E-05 | 3.01E-05 | 2.72E-06 | 3.93E-05 | 2.44E-05 | 2.44E-05 | 1.21E-05 |
| 2439 | 257430.1 | 4085696.71 | 3.33E-05 | 4.82E-04 | 3.55E-04 | 3.55E-04 | 1.98E-04 | 5.05E-06 | 7.34E-05 | 5.54E-06 | 5.54E-05 | 3.05E-05 | 2.75E-06 | 3.97E-05 | 2.47E-05 | 2.47E-05 | 1.22E-05 |
| 2440 | 257407.3 | 4085688.38 | 3.36E-05 | 4.86E-04 | 3.58E-04 | 3.58E-04 | 2.00E-04 | 5.10E-06 | 7.41E-05 | 5.60E-05 | 5.60E-05 | 3.08E-05 | 2.77E-06 | 4.01E-05 | 2.49E-05 | 2.49E-05 | 1.23E-05 |
| 2441 | 257384.5 | 4085680.05 | 3.39E-05 | 4.90E-04 | 3.61E-04 | 3.61E-04 | 2.01E-04 | 5.14E-06 | 7.46E-05 | 5.64E-05 | 5.64E-05 | 3.10E-05 | 2.79E-06 | 4.04E-05 | 2.51E-06 | 2.51E-05 | 1.24E-05 |
| 2442 | 257361.7 | 4085671.72 | 3.41E-05 | 4.93E-04 | 3.63E-04 | 3.63E-04 | 2.02E-04 | 5.17E-06 | 7.50E-05 | 5.67E-05 | 5.67E-09 | 3.12E-05 | 2.81E-06 | 4.06E-05 | 2.52E-05 | 2.52E-05 | 1.25E-05 |
| 2443 | 257338.9 | 4085683.39 | 3.41E-05 | 4.94E-04 | 3.64E-04 | 3.64E-04 | 2.03E-04 | 5.18E-06 | 7.52E-05 | 5.68E-05 | 5.68E-05 | 3.12E-05 | 2.81E-06 | 4.07E-05 | 2.53E-05 | 2.53E-05 | 1.25E-05 |
| 2444 | 257316.09 | 4085655.06 | 3.41E-05 | 4.94E-04 | 3.64E-04 | 3.64E-04 | 2.03E-04 | 5.18E-06 | 7.52E-05 | 5.68E-05 | 5.68E-05 | 3.12E-05 | 2.81E-06 | 4.07E-05 | 2.53E-05 | 2.53E-05 | 1.25E-05 |
| 2445 | 257293.29 | 4085646.73 | 3.40E-05 | 4.91E-04 | 3.62E-04 | 3.62E-04 | 2.02E-04 | 5.15E-06 | 7.48E-05 | 5.65E-05 | 5.65E-05 | 3.11E-05 | 2.80E-06 | 4.05E-05 | 2.52E-05 | 2.52E-05 | 1.24E-05 |
| 2446 | 257270.49 | 4085638.4 | 3.36E-05 | 4.68E-04 | 3.58E-04 | 3.58E-04 | 2.00E-04 | 5.10E-06 | 7.40E-05 | 5.59E-05 | 5.59E-05 | 3.07E-05 | 2.77E-06 | 4.01E-05 | 2.49E-05 | 2.49E-05 | 1.23E-05 |
| 2447 | 257247.69 | 4085630.07 | 3.31E-05 | 4.79E-04 | 3.53E-04 | 3.55E-04 | 1.97E-04 | 5.02E-06 | 7.29E-05 | 5.51E-06 | 5.51E-06 | 3.03E-05 | 2.73E-06 | 3.95E-05 | 2.45E-05 | 2.45E-05 | 1.21E-06 |
| 2448 | 257224.89 | 4085621.74 | 3.25E-05 | 4.71E-04 | 3.47E-04 | 3.47E-04 | 1.93E-04 | 4.94E-06 | 7.17E-05 | 5.42E-05 | 5.42E-05 | 2.98E-05 | 2.68E-06 | 3.88E-05 | 2.41E-05 | 2.41E-06 | 1.19E-05 |
| 2449 | 257202.09 | 4085613.41 | 3.19E-05 | 4.62E-04 | 3.40E-04 | 3.40E-04 | 1.90E-04 | 4.84E-06 | 7.03E-05 | 5.31E-05 | 5.31E-05 | 2.92E-05 | 2.63E-06 | 3.81E-05 | 2.36E-05 | 2.36E-05 | 1.17E-05 |
| 2450 | 257179.29 | 4085605.08 | 3.13E-05 | 4.52E-04 | 3.33E-04 | 3.33E-04 | 1.86E-04 | 4.74E-06 | 6.89E-05 | 5.20E-06 | 5.20E-06 | 2.86E-05 | 2.58E-06 | 3.73E-05 | 2.31E-05 | 2.31E-05 | 1.15E-05 |
| 2451 | 257146.33 | 4085574.71 | 3.08E-05 | 4.46E-04 | 3.29E-04 | 3.29E-04 | 1.83E-04 | 4.68E-06 | 6.79E-05 | 5.13E-05 | 5.13E-05 | 2.82E-05 | 2.54E-06 | 3.68E-05 | 2.28E-05 | 2.28E-05 | 1.13E-05 |
| 2452 | 257136.18 | 4085552.66 | 3.10E-05 | 4.48E-04 | 3.30E-04 | 3.30E-04 | 1.84E-04 | 4.70E-06 | 6.82E-05 | 5.15E-05 | 5.15E-05 | 2.83E-05 | 2.55E-06 | 3.69E-05 | 2.29E-05 | 2.29E-05 | 1.14E-05 |
| 2453 | 257126.03 | 4085530.61 | 3.09E-05 | 4.47E-04 | 3.30E-04 | 3.30E-04 | 1.84E-04 | 4.69E-06 | 6.81E-05 | 5.15E-06 | 5.15E-05 | 2.83E-05 | 2.55E-06 | 3.69E-05 | 2.29E-05 | 2.29E-06 | 1.13E-05 |
| 2454 | 257115.87 | 4085508.56 | 3.06E-05 | 4.43E-04 | 3.27E-04 | 3.27E-04 | 1.82E-04 | 4.65E-06 | 6.75E-05 | 5.10E-05 | 5.10E-05 | 2.80E-05 | 2.52E-06 | 3.65E-05 | 2.27E-05 | 2.27E-05 | 1.12E-05 |
| 2455 | 257109.72 | 4085486.51 | 3.01E-05 | 4.35E-04 | 3.21E-04 | 3.21E-04 | 1.79E-04 | 4.57E-06 | 6.63E-05 | 5.01E-05 | 5.01E-05 | 2.75E-05 | 2.48E-06 | 3.59E-05 | 2.23E-05 | 2.23E-05 | 1.10E-05 |
| 2456 | 257095.57 | 4085464.46 | 2.93E-05 | 4.23E-04 | 3.12E-04 | 3.12E-04 | 1.74E-04 | 4.44E-06 | 6.45E-05 | 4.87E-05 | 4.87E-06 | 2.68E-05 | 2.41E-06 | 3.49E-05 | 2.17E-05 | 2.17E-05 | 1.07E-05 |
| 2457 | 257085.41 | 4085442.41 | 2.82E-05 | 4.08E-04 | 3.00E-04 | 3.00E-04 | 1.68E-04 | 4.28E-06 | 6.21E-05 | 4.69E-05 | 4.69E-05 | 2.58E-05 | 2.32E-06 | 3.36E-05 | 2.09E-05 | 2.09E-05 | 1.03E-05 |
| 2458 | 257075.26 | 4085420.36 | 2.68E-05 | 3.88E-04 | 2.86E-04 | 2.86E-04 | 1.59E-04 | 4.07E-06 | 5.91E-05 | 4.47E-05 | 4.47E-05 | 2.46E-05 | 2.21E-06 | 3.20E-05 | 1.99E-05 | 1.99E-05 | 9.83E-06 |
| 2459 | 257065.11 | 4085398.31 | 2.53E-05 | 3.65E-04 | 2.69E-04 | 2.69E-04 | 1.50E-04 | 3.83E-06 | 5.56E-05 | 4.20E-05 | 4.20E-05 | 2.31E-05 | 2.08E-06 | 3.01E-05 | 1.87E-05 | 1.87E-05 | 9.26E-06 |
| 2460 | 257054.95 | 4085376.26 | 2.35E-05 | 3.40E-04 | 2.51E-04 | 2.51E-04 | 1.40E-04 | 3.57E-06 | 5.18E-05 | 3.91E-05 | 3.91E-05 | 2.15E-05 | 1.94E-06 | 2.80E-05 | 1.74E-05 | 1.74E-05 | 8.62E-06 |
| 2461 | 257044.8 | 4085354.21 | 2.17E-05 | 3.14E-04 | 2.32E-04 | 2.32E-04 | 1.29E-04 | 3.30E-06 | 4.79E-05 | 3.62E-05 | 3.62E-05 | 1.99E-05 | 1.79E-06 | 2.59E-05 | 1.61E-05 | 1.61E-05 | 7.96E-06 |
| 2462 | 257034.65 | 4085332.16 | 1.99E-05 | 2.88E-04 | 2.13E-04 | 2.13E-04 | 1.18E-04 | 3.03E-06 | 4.39E-05 | 3.32E-05 | 3.32E-05 | 1.82E-05 | 1.64E-06 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.31E-06 |
| 2463 | 257024.49 | 4085310.11 | 1.83E-05 | 2.64E-04 | 1.95E-04 | 1.95E-04 | 1.08E-04 | 2.77E-06 | 4.02E-05 | 3.04E-05 | 3.04E-05 | 1.67E-05 | 1.50E-06 | 2.18E-05 | 1.35E-05 | 1.35E-05 | 6.69E-06 |
| 2464 | 257014.34 | 4085288.06 | 1.67E-05 | 2.42E-04 | 1.78E-04 | 1.78E-04 | 9.94E-05 | 2.54E-06 | 3.69E-05 | 2.78E-05 | 2.78E-05 | 1.53E-05 | 1.38E-06 | 1.99E-05 | 1.24E-05 | 1.24E-05 | 6.13E-06 |
| 2465 | 257004.19 | 4085266.01 | 1.54E-05 | 2.23E-04 | 1.64E-04 | 1.64E-04 | 9.15E-05 | 2.34E-06 | 3.39E-05 | 2.56E-05 | 2.56E-05 | 1.41E-05 | 1.27E-06 | 1.84E-05 | 1.14E-05 | 1.14E-05 | 5.64E-06 |
| 2466 | 256994.03 | 4085243.96 | 1.43E-05 | 2.06E-04 | 1.52E-04 | 1.52E-04 | 8.47E-05 | 2.16E-06 | 3.14E-05 | 2.37E-05 | 2.37E-05 | 1.30E-05 | 1.17E-06 | 1.70E-05 | 1.06E-05 | 1.06E-05 | 5.22E-06 |
| 2467 | 256983.88 | 4085221.91 | 1.33E-05 | 1.93E-04 | 1.42E-04 | 1.42E-04 | 7.91E-05 | 2.02E-06 | 2.93E-05 | 2.22E-05 | 2.22E-05 | 1.22E-05 | 1.10E-06 | 1.59E-05 | 9.86E-06 | 9.86E-06 | 4.88E-06 |
| 2468 | 256973.72 | 4085199.87 | 1.25E-05 | 1.81E-04 | 1.34E-04 | 1.34E-04 | 7.46E-05 | 1.90E-06 | 2.76E-05 | 2.09E-05 | 2.09E-05 | 1.15E-05 | 1.03E-06 | 1.50E-05 | 9.29E-06 | 9.29E-06 | 4.60E-06 |
| 2469 | 257589.71 | 4085755.01 | 2.98E-05 | 4.31E-04 | 3.17E-04 | 3.17E-04 | 1.77E-04 | 4.52E-06 | 6.56E-05 | 4.96E-05 | 4.96E-05 | 2.72E-05 | 2.45E-06 | 3.55E-05 | 2.21E-05 | 2.21E-05 | 1.09E-05 |
| 2470 | 257813.99 | 4085753.94 | 2.98E-05 | 4.31E-04 | 3.18E-04 | 3.18E-04 | 1.77E-04 | 4.52E-06 | 6.57E-05 | 4.96E-05 | 4.96E-05 | 2.73E-05 | 2.46E-06 | 3.55E-05 | 2.21E-05 | 2.21E-05 | 1.09E-05 |
| 2471 | 257638.27 | 4085752.86 | 2.98E-05 | 4.31E-04 | 3.18E-04 | 3.18E-04 | 1.77E-04 | 4.52E-06 | 6.57E-05 | 4.96E-05 | 4.96E-05 | 2.73E-05 | 2.46E-06 | 3.55E-05 | 2.21E-05 | 2.21E-05 | 1.09E-05 |
| 2472 | 257662.55 | 4085751.79 | 2.97E-05 | 4.30E-04 | 3.17E-04 | 3.17E-04 | 1.77E-04 | 4.51E-06 | 6.55E-05 | 4.95E-05 | 4.95E-05 | 2.72E-05 | 2.45E-06 | 3.55E-05 | 2.20E-05 | 2.20E-05 | 1.09E-05 |
| 2473 | 257686.84 | 4085750.71 | 2.96E-05 | 4.28E-04 | 3.16E-04 | 3.16E-04 | 1.76E-04 | 4.50E-06 | 6.53E-05 | 4.93E-05 | 4.93E-05 | 2.71E-05 | 2.44E-06 | 3.53E-05 | 2.19E-05 | 2.19E-05 | 1.09E-05 |
| 2474 | 257711.12 | 4085749.64 | 2.94E-05 | 4.26E-04 | 3.14E-04 | 3.14E-04 | 1.75E-04 | 4.47E-06 | 6.49E-05 | 4.90E-05 | 4.90E-05 | 2.69E-05 | 2.43E-06 | 3.51E-05 | 2.18E-05 | 2.18E-05 | 1.08E-05 |
| 2475 | 257735.4 | 4085748.56 | 2.92E-05 | 4.22E-04 | 3.11E-04 | 3.11E-04 | 1.74E-04 | 4.43E-06 | 6.43E-05 | 4.86E-05 | 4.86E-05 | 2.67E-05 | 2.41E-06 | 3.48E-05 | 2.16E-05 | 2.16E-05 | 1.07E-05 |
| 2476 | 257759.68 | 4085747.48 | 2.89E-05 | 4.18E-04 | 3.08E-04 | 3.08E-04 | 1.72E-04 | 4.39E-06 | 6.37E-05 | 4.81E-05 | 4.81E-05 | 2.65E-05 | 2.38E-06 | 3.45E-05 | 2.14E-05 | 2.14E-05 | 1.06E-05 |
| 2477 | 257783.96 | 4085746.41 | 2.86E-05 | 4.13E-04 | 3.05E-04 | 3.05E-04 | 1.70E-04 | 4.34E-06 | 6.29E-05 | 4.75E-05 | 4.75E-05 | 2.61E-05 | 2.35E-06 | 3.41E-05 | 2.12E-05 | 2.12E-05 | 1.05E-05 |
| 2478 | 257808.24 | 4085745.33 | 2.81E-05 | 4.07E-04 | 3.00E-04 | 3.00E-04 | 1.67E-04 | 4.27E-06 | 6.20E-05 | 4.68E-05 | 4.68E-05 | 2.57E-05 | 2.32E-06 | 3.35E-05 | 2.08E-05 | 2.08E-05 | 1.03E-05 |
| 2479 | 257832.53 | 4085744.26 | 2.76E-05 | 3.99E-04 | 2.94E-04 | 2.94E-04 | 1.64E-04 | 4.19E-06 | 6.09E-05 | 4.60E-05 | 4.60E-05 | 2.53E-05 | 2.28E-06 | 3.29E-05 | 2.05E-05 | 2.05E-05 | 1.01E-05 |
| 2480 | 257856.81 | 4085743.18 | 2.72E-05 | 3.93E-04 | 2.90E-04 | 2.90E-04 | 1.61E-04 | 4.12E-06 | 5.98E-05 | 4.52E-05 | 4.52E-05 | 2.49E-05 | 2.24E-06 | 3.24E-05 | 2.01E-05 | 2.01E-05 | 9.96E-06 |
| 2481 | 257881.09 | 4085742.11 | 2.67E-05 | 3.86E-04 | 2.85E-04 | 2.85E-04 | 1.59E-04 | 4.09E-06 | 5.88E-05 | 4.44E-05 | 4.44E-05 | 2.44E-05 | 2.20E-06 | 3.18E-05 | 1.98E-05 | 1.98E-05 | 9.78E-06 |
| 2482 | 257905.37 | 4085741.03 | 2.62E-05 | 3.79E-04 | 2.79E-04 | 2.79E-04 | 1.56E-04 | 3.97E-06 | 5.77E-05 | 4.36E-05 | 4.36E-05 | 2.40E-05 | 2.16E-06 | 3.12E-05 | 1.94E-05 | 1.94E-05 | 9.60E-06 |
| 2483 | 257929.65 | 4085739.96 | 2.56E-05 | 3.70E-04 | 2.73E-04 | 2.73E-04 | 1.52E-04 | 3.89E-06 | 5.64E-05 | 4.26E-05 | 4.26E-05 | 2.34E-05 | 2.11E-06 | 3.05E-05 | 1.90E-05 | 1.90E-05 | 9.39E-06 |
| 2484 | 257953.94 | 4085738.88 | 2.50E-05 | 3.62E-04 | 2.66E-04 | 2.66E-04 | 1.49E-04 | 3.79E-06 | 5.51E-05 | 4.16E-05 | 4.16E-05 | 2.29E-05 | 2.06E-06 | 2.98E-05 | 1.85E-05 | 1.85E-05 | 9.16E-06 |
| 2485 | 257978.22 | 4085737.81 | 2.43E-05 | 3.52E-04 | 2.59E-04 | 2.59E-04 | 1.45E-04 | 3.69E-06 | 5.36E-05 | 4.05E-05 | 4.05E-05 | 2.23E-05 | 2.01E-06 | 2.90E-05 | 1.80E-05 | 1.80E-05 | 8.92E-06 |
| 2486 | 258002.5 | 4085736.73 | 2.36E-05 | 3.42E-04 | 2.52E-04 | 2.52E-04 | 1.40E-04 | 3.59E-06 | 5.21E-05 | 3.93E-05 | 3.93E-05 | 2.16E-05 | 1.95E-06 | 2.82E-05 | 1.75E-05 | 1.75E-05 | 8.66E-06 |
| 2487 | 258026.78 | 4085735.65 | 2.29E-05 | 3.32E-04 | 2.44E-04 | 2.44E-04 | 1.36E-04 | 3.48E-06 | 5.05E-05 | 3.82E-05 | 3.82E-05 | 2.10E-05 | 1.89E-06 | 2.73E-05 | 1.70E-05 | 1.70E-05 | 8.40E-06 |
| 2488 | 258051.06 | 4085734.58 | 2.22E-05 | 3.21E-04 | 2.37E-04 | 2.37E-04 | 1.32E-04 | 3.37E-06 | 4.89E-05 | 3.70E-05 | 3.70E-05 | 2.03E-05 | 1.83E-06 | 2.65E-05 | 1.65E-05 | 1.65E-05 | 8.14E-06 |
| 2489 | 258075.34 | 4085733.5 | 2.15E-05 | 3.11E-04 | 2.29E-04 | 2.29E-04 | 1.28E-04 | 3.27E-06 | 4.74E-05 | 3.58E-05 | 3.58E-05 | 1.97E-05 | 1.77E-06 | 2.57E-05 | 1.59E-05 | 1.59E-05 | 7.89E-06 |
| 2490 | 258099.63 | 4085732.43 | 2.09E-05 | 3.02E-04 | 2.22E-04 | 2.22E-04 | 1.24E-04 | 3.17E-06 | 4.60E-05 | 3.47E-05 | 3.47E-05 | 1.91E-05 | 1.72E-06 | 2.49E-05 | 1.54E-05 | 1.64E-05 | 7.65E-06 |
| 2491 | 258123.91 | 4085731.35 | 2.02E-05 | 2.92E-04 | 2.15E-04 | 2.15E-04 | 1.20E-04 | 3.07E-06 | 4.45E-05 | 3.36E-05 | 3.36E-05 | 1.85E-05 | 1.67E-06 | 2.41E-05 | 1.50E-06 | 1.50E-05 | 7.41E-06 |
| 2492 | 258148.19 | 4085730.28 | 1.96E-05 | 2.83E-04 | 2.08E-04 | 2.08E-04 | 1.16E-04 | 2.97E-06 | 4.31E-05 | 3.25E-05 | 3.25E-05 | 1.79E-05 | 1.61E-06 | 2.33E-05 | 1.45E-05 | 1.45E-05 | 7.17E-06 |
| 2493 | 258172.47 | 4085729.2 | 1.89E-05 | 2.73E-04 | 2.01E-04 | 2.01E-04 | 1.12E-04 | 2.87E-06 | 4.16E-05 | 3.14E-05 | 3.14E-05 | 1.73E-05 | 1.56E-06 | 2.25E-05 | 1.40E-05 | 1.40E-05 | 6.92E-06 |
| 2494 | 258196.75 | 4085728.13 | 1.82E-05 | 2.63E-04 | 1.94E-04 | 1.94E-04 | 1.08E-04 | 2.76E-06 | 4.01E-05 | 3.03E-05 | 3.03E-05 | 1.67E-05 | 1.50E-06 | 2.17E-05 | 1.35E-06 | 1.35E-05 | 6.67E-06 |
| 2495 | 258221.04 | 4085727.05 | 1.75E-05 | 2.53E-04 | 1.87E-04 | 1.87E-04 | 1.04E-04 | 2.66E-06 | 3.85E-05 | 2.92E-05 | 2.92E-05 | 1.60E-05 | 1.44E-06 | 2.09E-05 | 1.30E-05 | 1.30E-05 | 6.42E-06 |
| 2496 | 258245.32 | 4085725.98 | 1.68E-05 | 2.43E-04 | 1.79E-04 | 1.79E-04 | 9.99E-05 | 2.55E-06 | 3.71E-05 | 2.80E-05 | 2.80E-05 | 1.54E-05 | 1.39E-06 | 2.00E-05 | 1.25E-05 | 1.25E-05 | 6.16E-06 |
| 2497 | 258269.6 | 4085724.9 | 1.61E-05 | 2.33E-04 | 1.72E-04 | 1.72E-04 | 9.58E-05 | 2.45E-06 | 3.55E-05 | 2.68E-05 | 2.68E-05 | 1.48E-05 | 1.33E-06 | 1.92E-05 | 1.19E-05 | 1.19E-05 | 5.91E-06 |
| 2498 | 258293.88 | 4085723.82 | 1.54E-05 | 2.23E-04 | 1.65E-04 | 1.65E-04 | 9.18E-05 | 2.34E-06 | 3.40E-05 | 2.57E-05 | 2.57E-05 | 1.41E-05 | 1.27E-06 | 1.84E-05 | 1.14E-05 | 1.14E-05 | 5.66E-06 |
| 2499 | 258318.16 | 4085722.75 | 1.48E-05 | 2.14E-04 | 1.57E-04 | 1.57E-04 | 8.78E-05 | 2.24E-06 | 3.25E-05 | 2.46E-05 | 2.46E-05 | 1.35E-05 | 1.22E-06 | 1.76E-05 | 1.09E-05 | 1.09E-05 | 5.41E-06 |
| 2500 | 258342.44 | 4085721.67 | 1.41E-05 | 2.04E-04 | 1.50E-04 | 1.50E-04 | 8.39E-05 | 2.14E-06 | 3.11E-05 | 2.35E-05 | 2.35E-05 | 1.29E-05 | 1.16E-06 | 1.68E-05 | 1.05E-05 | 1.05E-05 | 5.17E-06 |
| 2501 | 258366.73 | 4085720.6 | 1.35E-05 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.01E-05 | 2.09E-06 | 2.97E-05 | 2.24E-05 | 2.24E-05 | 1.23E-05 | 1.11E-06 | 1.61E-05 | 9.99E-06 | 9.99E-06 | 4.94E-06 |
| 2502 | 258391.01 | 4085719.52 | 1.29E-05 | 1.86E-04 | 1.37E-04 | 1.37E-04 | 7.66E-05 | 1.96E-06 | 2.84E-05 | 2.14E-05 | 2.14E-05 | 1.18E-05 | 1.06E-06 | 1.54E-05 | 9.54E-06 | 9.54E-06 | 4.72E-06 |
| 2503 | 257572.16 | 4085846.89 | 2.41E-05 | 3.48E-04 | 2.57E-04 | 2.57E-04 | 1.43E-04 | 3.65E-06 | 5.30E-05 | 4.01E-05 | 4.01E-05 | 2.20E-05 | 1.98E-06 | 2.87E-05 | 1.78E-05 | 1.78E-05 | 8.82E-06 |
| 2504 | 257550.18 | 4085838.86 | 2.45E-05 | 3.54E-04 | 2.61E-04 | 2.61E-04 | 1.46E-04 | 3.72E-06 | 5.40E-05 | 4.08E-05 | 4.08E-05 | 2.24E-05 | 2.02E-06 | 2.92E-05 | 1.81E-05 | 1.81E-05 | 8.98E-06 |
| 2505 | 257528.21 | 4085830.83 | 2.49E-05 | 3.60E-04 | 2.66E-04 | 2.66E-04 | 1.48E-04 | 3.78E-06 | 5.49E-05 | 4.15E-05 | 4.15E-05 | 2.28E-05 | 2.05E-06 | 2.97E-05 | 1.85E-06 | 1.85E-05 | 9.13E-06 |
| 2506 | 257506.23 | 4085822.8 | 2.53E-05 | 3.66E-04 | 2.70E-04 | 2.70E-04 | 1.50E-04 | 3.84E-06 | 5.58E-05 | 4.21E-05 | 4.21E-05 | 2.32E-05 | 2.09E-06 | 3.02E-05 | 1.88E-05 | 1.88E-06 | 9.28E-06 |
| 2507 | 257484.26 | 4085814.78 | 2.57E-05 | 3.72E-04 | 2.74E-04 | 2.74E-04 | 1.53E-04 | 3.90E-06 | 5.66E-05 | 4.28E-05 | 4.28E-05 | 2.35E-05 | 2.12E-06 | 3.06E-05 | 1.90E-05 | 1.90E-05 | 9.42E-06 |
| 2508 | 257462.28 | 4085806.75 | 2.61E-05 | 3.77E-04 | 2.78E-04 | 2.78E-04 | 1.55E-04 | 3.96E-06 | 5.74E-05 | 4.34E-05 | 4.34E-05 | 2.39E-05 | 2.15E-06 | 3.11E-05 | 1.93E-05 | 1.93E-05 | 9.56E-06 |
| 2509 | 257440.31 | 4085798.72 | 2.64E-05 | 3.82E-04 | 2.82E-04 | 2.82E-04 | 1.57E-04 | 4.01E-06 | 5.82E-05 | 4.40E-05 | 4.40E-05 | 2.42E-05 | 2.18E-06 | 3.15E-05 | 1.96E-05 | 1.96E-05 | 9.68E-06 |
| 2510 | 257418.33 | 4085790.69 | 2.67E-05 | 3.87E-04 | 2.85E-04 | 2.85E-04 | 1.59E-04 | 4.06E-06 | 5.89E-05 | 4.45E-05 | 4.45E-05 | 2.45E-05 | 2.20E-06 | 3.19E-05 | 1.98E-05 | 1.98E-05 | 9.80E-06 |
| 2511 | 257396.36 | 4085782.67 | 2.70E-05 | 3.91E-04 | 2.88E-04 | 2.88E-04 | 1.61E-04 | 4.10E-06 | 5.95E-05 | 4.50E-05 | 4.50E-05 | 2.47E-05 | 2.23E-06 | 3.22E-05 | 2.00E-05 | 2.00E-05 | 9.90E-06 |
| 2512 | 257374.38 | 4085774.64 | 2.73E-05 | 3.95E-04 | 2.91E-04 | 2.91E-04 | 1.62E-04 | 4.14E-06 | 6.01E-05 | 4.54E-05 | 4.54E-05 | 2.50E-05 | 2.25E-06 | 3.25E-05 | 2.02E-05 | 2.02E-05 | 1.00E-05 |
| 2513 | 257352.41 | 4085766.61 | 2.75E-05 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2307 | 258304.89 | 4085423.04 | 3.84E-05 | 5.56E-04 | 4.10E-04 | 4.10E-04 | 2.28E-04 | 5.83E-06 | 8.47E-05 | 6.40E-05 | 6.40E-05 | 3.52E-05 | 3.17E-05 | 4.58E-05 | 2.85E-05 | 2.85E-05 | 1.41E-05 |
| 2308 | 258329.17 | 4085421.97 | 3.57E-05 | 5.16E-04 | 3.81E-04 | 3.81E-04 | 2.12E-04 | 5.42E-06 | 7.86E-05 | 5.94E-06 | 5.94E-05 | 3.27E-05 | 2.94E-06 | 4.26E-05 | 2.64E-05 | 2.64E-05 | 1.31E-05 |
| 2309 | 258353.45 | 4085420.89 | 3.31E-05 | 4.79E-04 | 3.53E-04 | 3.53E-04 | 1.97E-04 | 5.02E-06 | 7.29E-05 | 5.51E-05 | 5.51E-05 | 3.03E-05 | 2.73E-06 | 3.94E-05 | 2.45E-05 | 2.45E-05 | 1.21E-05 |
| 2310 | 258377.73 | 4085419.82 | 3.07E-05 | 4.43E-04 | 3.27E-04 | 3.27E-04 | 1.82E-04 | 4.65E-06 | 6.75E-05 | 5.10E-05 | 5.10E-05 | 2.81E-05 | 2.53E-06 | 3.65E-05 | 2.27E-05 | 2.27E-05 | 1.12E-05 |
| 2311 | 257558.64 | 4085547.09 | 5.43E-05 | 7.85E-04 | 5.79E-04 | 5.79E-04 | 3.23E-04 | 8.24E-06 | 1.20E-04 | 9.04E-05 | 9.04E-05 | 4.97E-05 | 4.48E-06 | 6.47E-05 | 4.02E-05 | 4.02E-05 | 1.99E-05 |
| 2312 | 257536.43 | 4085538.98 | 5.53E-05 | 8.00E-04 | 5.90E-04 | 5.90E-04 | 3.29E-04 | 8.39E-06 | 1.22E-04 | 9.21E-05 | 9.21E-05 | 5.06E-05 | 4.56E-06 | 6.59E-05 | 4.10E-05 | 4.10E-05 | 2.03E-05 |
| 2313 | 257514.21 | 4085530.86 | 5.59E-05 | 8.08E-04 | 5.96E-04 | 5.96E-04 | 3.32E-04 | 8.48E-06 | 1.23E-04 | 9.30E-05 | 9.30E-05 | 5.11E-05 | 4.61E-06 | 6.66E-05 | 4.14E-05 | 4.14E-05 | 2.05E-05 |
| 2314 | 257491.99 | 4085522.75 | 5.63E-05 | 8.14E-04 | 6.00E-04 | 6.00E-04 | 3.34E-04 | 8.54E-06 | 1.24E-04 | 9.36E-05 | 9.36E-05 | 5.15E-05 | 4.64E-06 | 6.71E-05 | 4.17E-05 | 4.17E-05 | 2.06E-05 |
| 2315 | 257469.78 | 4085514.63 | 5.64E-05 | 8.16E-04 | 6.01E-04 | 6.01E-04 | 3.35E-04 | 8.56E-06 | 1.24E-04 | 9.39E-05 | 9.39E-05 | 5.16E-05 | 4.65E-06 | 6.73E-05 | 4.18E-05 | 4.18E-05 | 2.07E-05 |
| 2316 | 257447.56 | 4085506.51 | 5.64E-05 | 8.15E-04 | 6.01E-04 | 6.01E-04 | 3.35E-04 | 8.55E-06 | 1.24E-04 | 9.38E-05 | 9.38E-05 | 5.16E-05 | 4.65E-06 | 6.72E-05 | 4.17E-05 | 4.17E-05 | 2.07E-05 |
| 2317 | 257425.34 | 4085498.4 | 5.61E-05 | 8.11E-04 | 5.98E-04 | 5.98E-04 | 3.33E-04 | 8.51E-06 | 1.24E-04 | 9.33E-05 | 9.33E-05 | 5.13E-05 | 4.62E-06 | 6.68E-05 | 4.15E-05 | 4.15E-05 | 2.06E-05 |
| 2318 | 257403.13 | 4085490.28 | 5.55E-05 | 8.02E-04 | 5.91E-04 | 5.91E-04 | 3.30E-04 | 8.42E-06 | 1.22E-04 | 9.23E-05 | 9.23E-05 | 5.08E-05 | 4.57E-06 | 6.61E-05 | 4.11E-05 | 4.11E-05 | 2.03E-05 |
| 2319 | 257380.91 | 4085482.17 | 5.45E-05 | 7.88E-04 | 5.81E-04 | 5.81E-04 | 3.24E-04 | 8.27E-06 | 1.20E-04 | 9.07E-05 | 9.07E-05 | 4.99E-05 | 4.49E-06 | 6.50E-05 | 4.04E-05 | 4.04E-05 | 2.00E-05 |
| 2320 | 257358.69 | 4085474.09 | 5.32E-05 | 7.69E-04 | 5.67E-04 | 5.67E-04 | 3.16E-04 | 8.07E-06 | 1.17E-04 | 8.85E-05 | 8.85E-05 | 4.87E-05 | 4.38E-06 | 6.34E-05 | 3.94E-05 | 3.94E-05 | 1.95E-05 |
| 2321 | 257336.48 | 4085465.93 | 5.16E-05 | 7.46E-04 | 5.50E-04 | 5.50E-04 | 3.06E-04 | 7.83E-06 | 1.14E-04 | 8.58E-06 | 8.58E-05 | 4.72E-05 | 4.25E-06 | 6.15E-05 | 3.82E-05 | 3.82E-05 | 1.89E-05 |
| 2322 | 257314.26 | 4085457.82 | 4.98E-05 | 7.20E-04 | 5.30E-04 | 5.30E-04 | 2.96E-04 | 7.55E-06 | 1.10E-04 | 8.28E-05 | 8.28E-05 | 4.55E-05 | 4.10E-06 | 5.93E-05 | 3.69E-05 | 3.69E-05 | 1.82E-05 |
| 2323 | 257282.15 | 4085428.22 | 4.81E-05 | 6.95E-04 | 5.12E-04 | 5.12E-04 | 2.86E-04 | 7.29E-06 | 1.06E-04 | 8.00E-05 | 8.00E-05 | 4.40E-05 | 3.96E-06 | 5.73E-05 | 3.56E-05 | 3.56E-05 | 1.76E-05 |
| 2324 | 257272.26 | 4085406.73 | 4.79E-05 | 6.93E-04 | 5.11E-04 | 5.11E-04 | 2.85E-04 | 7.27E-06 | 1.06E-04 | 7.98E-05 | 7.98E-05 | 4.39E-05 | 3.95E-06 | 5.71E-05 | 3.55E-05 | 3.55E-05 | 1.76E-05 |
| 2325 | 257262.37 | 4085385.25 | 4.73E-05 | 6.84E-04 | 5.04E-04 | 5.04E-04 | 2.81E-04 | 7.18E-06 | 1.04E-04 | 7.88E-05 | 7.88E-05 | 4.33E-05 | 3.90E-06 | 5.64E-05 | 3.50E-05 | 3.50E-05 | 1.73E-05 |
| 2326 | 257252.47 | 4085363.77 | 4.62E-05 | 6.68E-04 | 4.92E-04 | 4.92E-04 | 2.74E-04 | 7.01E-06 | 1.02E-04 | 7.69E-05 | 7.69E-05 | 4.22E-05 | 3.81E-06 | 5.50E-05 | 3.42E-05 | 3.42E-05 | 1.69E-05 |
| 2327 | 257242.58 | 4085342.28 | 4.44E-05 | 6.42E-04 | 4.73E-04 | 4.73E-04 | 2.64E-04 | 6.74E-06 | 9.79E-05 | 7.39E-05 | 7.39E-05 | 4.06E-05 | 3.66E-06 | 5.30E-05 | 3.29E-05 | 3.29E-05 | 1.63E-05 |
| 2328 | 257232.69 | 4085320.8 | 4.21E-05 | 6.08E-04 | 4.48E-04 | 4.48E-04 | 2.50E-04 | 6.38E-06 | 9.27E-05 | 7.00E-05 | 7.00E-05 | 3.85E-05 | 3.47E-06 | 5.02E-05 | 3.12E-05 | 3.12E-05 | 1.54E-05 |
| 2329 | 257222.79 | 4085299.31 | 3.92E-05 | 5.67E-04 | 4.18E-04 | 4.18E-04 | 2.33E-04 | 5.95E-06 | 8.64E-05 | 6.53E-05 | 6.53E-05 | 3.59E-05 | 3.23E-06 | 4.68E-05 | 2.90E-05 | 2.90E-05 | 1.44E-05 |
| 2330 | 257212.9 | 4085277.83 | 3.61E-05 | 5.22E-04 | 3.84E-04 | 3.84E-04 | 2.14E-04 | 5.47E-06 | 7.95E-05 | 6.00E-05 | 6.00E-05 | 3.30E-05 | 2.97E-06 | 4.30E-05 | 2.67E-05 | 2.67E-05 | 1.32E-05 |
| 2331 | 257203.01 | 4085256.35 | 3.28E-05 | 4.74E-04 | 3.50E-04 | 3.50E-04 | 1.95E-04 | 4.98E-06 | 7.22E-05 | 5.46E-05 | 5.46E-05 | 3.00E-05 | 2.70E-06 | 3.91E-05 | 2.43E-05 | 2.43E-05 | 1.20E-05 |
| 2332 | 257193.11 | 4085234.86 | 2.96E-05 | 4.28E-04 | 3.16E-04 | 3.16E-04 | 1.76E-04 | 4.49E-06 | 6.53E-05 | 4.93E-05 | 4.93E-05 | 2.71E-05 | 2.44E-06 | 3.53E-05 | 2.19E-05 | 2.19E-05 | 1.09E-05 |
| 2333 | 257183.22 | 4085213.38 | 2.67E-05 | 3.86E-04 | 2.84E-04 | 2.84E-04 | 1.59E-04 | 4.05E-06 | 5.88E-05 | 4.44E-05 | 4.44E-05 | 2.44E-05 | 2.20E-06 | 3.18E-05 | 1.98E-05 | 1.98E-05 | 9.78E-06 |
| 2334 | 257173.33 | 4085191.89 | 2.41E-05 | 3.48E-04 | 2.57E-04 | 2.57E-04 | 1.43E-04 | 3.66E-06 | 5.31E-05 | 4.01E-05 | 4.01E-05 | 2.20E-05 | 1.99E-06 | 2.87E-05 | 1.78E-05 | 1.78E-05 | 8.83E-06 |
| 2335 | 257580.86 | 4085555.21 | 5.34E-05 | 7.72E-04 | 5.69E-04 | 5.69E-04 | 3.17E-04 | 8.10E-06 | 1.18E-04 | 8.88E-05 | 8.88E-05 | 4.88E-05 | 4.40E-06 | 6.36E-05 | 3.95E-05 | 3.95E-05 | 1.96E-05 |
| 2336 | 257605.14 | 4085554.13 | 5.39E-05 | 7.80E-04 | 5.75E-04 | 5.75E-04 | 3.21E-04 | 8.19E-06 | 1.19E-04 | 8.98E-05 | 8.98E-06 | 4.94E-05 | 4.45E-06 | 6.43E-05 | 4.00E-05 | 4.00E-05 | 1.98E-05 |
| 2337 | 257629.42 | 4085553.06 | 5.44E-05 | 7.86E-04 | 5.80E-04 | 5.80E-04 | 3.23E-04 | 8.25E-06 | 1.20E-04 | 9.05E-05 | 9.05E-05 | 4.98E-05 | 4.48E-06 | 6.48E-05 | 4.03E-05 | 4.03E-05 | 1.99E-05 |
| 2338 | 257653.7 | 4085551.98 | 5.46E-05 | 7.90E-04 | 5.83E-04 | 5.83E-04 | 3.25E-04 | 8.29E-06 | 1.20E-04 | 9.10E-05 | 9.10E-05 | 5.00E-05 | 4.50E-06 | 6.51E-05 | 4.05E-05 | 4.05E-05 | 2.00E-05 |
| 2339 | 257677.99 | 4085550.91 | 5.47E-05 | 7.92E-04 | 5.84E-04 | 5.84E-04 | 3.25E-04 | 8.31E-06 | 1.21E-04 | 9.11E-05 | 9.11E-05 | 5.01E-05 | 4.51E-06 | 6.53E-05 | 4.05E-05 | 4.05E-05 | 2.01E-05 |
| 2340 | 257702.27 | 4085549.83 | 5.47E-05 | 7.91E-04 | 5.83E-04 | 5.83E-04 | 3.25E-04 | 8.30E-06 | 1.21E-04 | 9.10E-05 | 9.10E-05 | 5.01E-05 | 4.51E-06 | 6.52E-05 | 4.05E-05 | 4.05E-05 | 2.01E-05 |
| 2341 | 257726.55 | 4085548.76 | 5.45E-05 | 7.89E-04 | 5.81E-04 | 5.81E-04 | 3.24E-04 | 8.28E-06 | 1.20E-04 | 9.08E-05 | 9.08E-05 | 4.99E-05 | 4.50E-06 | 6.50E-06 | 4.04E-05 | 4.04E-05 | 2.00E-05 |
| 2342 | 257750.83 | 4085547.68 | 5.43E-05 | 7.85E-04 | 5.79E-04 | 5.79E-04 | 3.23E-04 | 8.24E-06 | 1.20E-04 | 9.04E-05 | 9.04E-05 | 4.97E-05 | 4.48E-06 | 6.47E-05 | 4.02E-05 | 4.02E-05 | 1.99E-05 |
| 2343 | 257775.11 | 4085546.6 | 5.40E-05 | 7.81E-04 | 5.76E-04 | 5.76E-04 | 3.21E-04 | 8.20E-06 | 1.19E-04 | 8.99E-05 | 8.99E-05 | 4.94E-05 | 4.45E-06 | 6.44E-05 | 4.00E-05 | 4.00E-05 | 1.98E-05 |
| 2344 | 257799.4 | 4085545.53 | 5.36E-05 | 7.76E-04 | 5.72E-04 | 5.72E-04 | 3.19E-04 | 8.14E-06 | 1.18E-04 | 8.93E-05 | 8.93E-05 | 4.91E-05 | 4.42E-06 | 6.39E-05 | 3.97E-05 | 3.97E-05 | 1.97E-05 |
| 2345 | 257823.68 | 4085544.45 | 5.32E-05 | 7.69E-04 | 5.67E-04 | 5.67E-04 | 3.16E-04 | 8.07E-06 | 1.17E-04 | 8.85E-05 | 8.85E-05 | 4.86E-05 | 4.38E-06 | 6.34E-05 | 3.94E-05 | 3.94E-05 | 1.95E-05 |
| 2346 | 257847.96 | 4085543.38 | 5.26E-05 | 7.61E-04 | 5.61E-04 | 5.61E-04 | 3.13E-04 | 7.98E-06 | 1.16E-04 | 8.75E-05 | 8.75E-05 | 4.81E-05 | 4.33E-06 | 6.27E-05 | 3.89E-05 | 3.89E-05 | 1.93E-05 |
| 2347 | 257872.24 | 4085542.3 | 5.19E-05 | 7.51E-04 | 5.53E-04 | 5.53E-04 | 3.08E-04 | 7.88E-06 | 1.14E-04 | 8.64E-05 | 8.64E-05 | 4.75E-05 | 4.28E-06 | 6.19E-05 | 3.84E-05 | 3.84E-05 | 1.90E-05 |
| 2348 | 257896.52 | 4085541.23 | 5.11E-05 | 7.39E-04 | 5.45E-04 | 5.45E-04 | 3.04E-04 | 7.76E-06 | 1.13E-04 | 8.51E-05 | 8.51E-05 | 4.68E-05 | 4.21E-06 | 6.09E-05 | 3.78E-05 | 3.78E-05 | 1.87E-05 |
| 2349 | 257920.8 | 4085540.15 | 5.02E-05 | 7.26E-04 | 5.35E-04 | 5.35E-04 | 2.98E-04 | 7.62E-06 | 1.11E-04 | 8.36E-05 | 8.36E-05 | 4.59E-05 | 4.14E-06 | 5.98E-06 | 3.72E-05 | 3.72E-05 | 1.84E-05 |
| 2350 | 257945.09 | 4085539.08 | 4.92E-05 | 7.11E-04 | 5.24E-04 | 5.24E-04 | 2.92E-04 | 7.46E-06 | 1.08E-04 | 8.19E-06 | 8.19E-06 | 4.50E-05 | 4.05E-06 | 5.86E-06 | 3.64E-05 | 3.64E-05 | 1.80E-05 |
| 2351 | 257969.37 | 4085538 | 4.81E-05 | 6.95E-04 | 5.12E-04 | 5.12E-04 | 2.86E-04 | 7.29E-06 | 1.06E-04 | 8.00E-05 | 8.00E-05 | 4.40E-05 | 3.96E-06 | 5.73E-05 | 3.56E-05 | 3.56E-05 | 1.76E-05 |
| 2352 | 257993.65 | 4085536.93 | 4.68E-05 | 6.77E-04 | 4.99E-04 | 4.99E-04 | 2.78E-04 | 7.10E-06 | 1.03E-04 | 7.79E-05 | 7.79E-05 | 4.28E-05 | 3.86E-06 | 5.58E-05 | 3.47E-05 | 3.47E-05 | 1.72E-05 |
| 2353 | 258017.93 | 4085535.85 | 4.55E-05 | 6.57E-04 | 4.85E-04 | 4.85E-04 | 2.70E-04 | 6.90E-06 | 1.00E-04 | 7.57E-05 | 7.57E-05 | 4.16E-05 | 3.75E-06 | 5.42E-06 | 3.37E-05 | 3.37E-05 | 1.67E-05 |
| 2354 | 258042.21 | 4085534.77 | 4.40E-05 | 6.36E-04 | 4.69E-04 | 4.69E-04 | 2.61E-04 | 6.67E-06 | 9.69E-05 | 7.32E-05 | 7.32E-05 | 4.02E-05 | 3.62E-06 | 5.24E-06 | 3.26E-05 | 3.26E-05 | 1.61E-05 |
| 2355 | 258066.5 | 4085533.7 | 4.24E-05 | 6.13E-04 | 4.52E-04 | 4.52E-04 | 2.52E-04 | 6.43E-06 | 9.34E-05 | 7.05E-05 | 7.05E-05 | 3.88E-05 | 3.49E-06 | 5.05E-05 | 3.14E-05 | 3.14E-05 | 1.55E-05 |
| 2356 | 258090.78 | 4085532.62 | 4.07E-05 | 5.89E-04 | 4.34E-04 | 4.34E-04 | 2.42E-04 | 6.18E-06 | 8.97E-05 | 6.78E-05 | 6.78E-05 | 3.73E-05 | 3.36E-06 | 4.85E-05 | 3.02E-05 | 3.02E-05 | 1.49E-05 |
| 2357 | 258115.06 | 4085531.55 | 3.90E-05 | 5.64E-04 | 4.16E-04 | 4.16E-04 | 2.32E-04 | 5.92E-06 | 8.59E-05 | 6.49E-06 | 6.49E-05 | 3.57E-05 | 3.21E-06 | 4.65E-06 | 2.89E-05 | 2.89E-05 | 1.43E-05 |
| 2358 | 258139.34 | 4085530.47 | 3.73E-05 | 5.39E-04 | 3.97E-04 | 3.97E-04 | 2.22E-04 | 5.66E-06 | 8.22E-05 | 6.21E-05 | 6.21E-05 | 3.41E-05 | 3.07E-06 | 4.44E-05 | 2.76E-06 | 2.76E-05 | 1.37E-05 |
| 2359 | 258163.62 | 4085529.4 | 3.56E-05 | 5.15E-04 | 3.80E-04 | 3.80E-04 | 2.12E-04 | 5.40E-06 | 7.84E-05 | 5.93E-06 | 5.93E-05 | 3.26E-05 | 2.93E-06 | 4.24E-05 | 2.64E-05 | 2.64E-05 | 1.30E-05 |
| 2360 | 258187.9 | 4085528.32 | 3.40E-05 | 4.91E-04 | 3.62E-04 | 3.62E-04 | 2.02E-04 | 5.15E-06 | 7.48E-05 | 5.65E-05 | 5.65E-05 | 3.11E-05 | 2.80E-06 | 4.05E-05 | 2.51E-05 | 2.51E-05 | 1.24E-05 |
| 2361 | 258212.19 | 4085527.25 | 3.23E-05 | 4.68E-04 | 3.45E-04 | 3.45E-04 | 1.92E-04 | 4.91E-06 | 7.13E-05 | 5.38E-05 | 5.38E-05 | 2.96E-05 | 2.67E-06 | 3.86E-05 | 2.40E-05 | 2.40E-05 | 1.19E-05 |
| 2362 | 258236.47 | 4085526.17 | 3.07E-05 | 4.45E-04 | 3.28E-04 | 3.28E-04 | 1.83E-04 | 4.67E-06 | 6.77E-05 | 5.12E-05 | 5.12E-05 | 2.81E-05 | 2.53E-06 | 3.66E-05 | 2.28E-05 | 2.28E-05 | 1.13E-05 |
| 2363 | 258260.75 | 4085525.1 | 2.91E-05 | 4.21E-04 | 3.10E-04 | 3.10E-04 | 1.73E-04 | 4.42E-06 | 6.42E-05 | 4.85E-05 | 4.85E-05 | 2.66E-05 | 2.40E-06 | 3.47E-05 | 2.16E-05 | 2.16E-05 | 1.07E-05 |
| 2364 | 258285.03 | 4085524.02 | 2.75E-05 | 3.98E-04 | 2.93E-04 | 2.93E-04 | 1.64E-04 | 4.18E-06 | 6.06E-05 | 4.58E-05 | 4.58E-05 | 2.52E-05 | 2.27E-06 | 3.28E-05 | 2.04E-05 | 2.04E-05 | 1.01E-05 |
| 2365 | 258309.31 | 4085522.94 | 2.59E-05 | 3.75E-04 | 2.76E-04 | 2.76E-04 | 1.54E-04 | 3.94E-06 | 5.71E-05 | 4.32E-06 | 4.32E-05 | 2.37E-05 | 2.14E-06 | 3.09E-05 | 1.92E-05 | 1.92E-05 | 9.51E-06 |
| 2366 | 258333.6 | 4085521.87 | 2.44E-05 | 3.53E-04 | 2.60E-04 | 2.60E-04 | 1.45E-04 | 3.70E-06 | 5.38E-05 | 4.06E-05 | 4.06E-05 | 2.23E-05 | 2.01E-06 | 2.91E-05 | 1.81E-05 | 1.81E-05 | 8.95E-06 |
| 2367 | 258357.88 | 4085520.79 | 2.29E-05 | 3.32E-04 | 2.45E-04 | 2.45E-04 | 1.36E-04 | 3.48E-06 | 5.06E-05 | 3.82E-05 | 3.82E-05 | 2.10E-05 | 1.89E-06 | 2.74E-05 | 1.70E-05 | 1.70E-05 | 8.41E-06 |
| 2368 | 258382.16 | 4085519.72 | 2.16E-05 | 3.12E-04 | 2.30E-04 | 2.30E-04 | 1.28E-04 | 3.27E-06 | 4.75E-05 | 3.59E-05 | 3.59E-05 | 1.97E-05 | 1.78E-06 | 2.57E-05 | 1.60E-05 | 1.60E-05 | 7.91E-06 |
| 2369 | 257562.72 | 4085646.87 | 3.98E-05 | 5.76E-04 | 4.25E-04 | 4.25E-04 | 2.37E-04 | 6.05E-06 | 8.78E-05 | 6.63E-06 | 6.63E-05 | 3.65E-05 | 3.28E-06 | 4.75E-05 | 2.95E-05 | 2.95E-05 | 1.46E-05 |
| 2370 | 257540.16 | 4085638.63 | 4.06E-05 | 5.87E-04 | 4.32E-04 | 4.32E-04 | 2.41E-04 | 6.16E-06 | 8.94E-05 | 6.75E-06 | 6.75E-05 | 3.71E-05 | 3.34E-06 | 4.84E-05 | 3.00E-05 | 3.00E-05 | 1.49E-05 |
| 2371 | 257517.59 | 4085630.38 | 4.12E-05 | 5.96E-04 | 4.39E-04 | 4.39E-04 | 2.45E-04 | 6.25E-06 | 9.08E-05 | 6.86E-05 | 6.86E-05 | 3.77E-05 | 3.40E-06 | 4.91E-05 | 3.05E-05 | 3.05E-05 | 1.51E-05 |
| 2372 | 257495.03 | 4085622.14 | 4.18E-05 | 6.04E-04 | 4.45E-04 | 4.45E-04 | 2.48E-04 | 6.34E-06 | 9.20E-05 | 6.95E-05 | 6.95E-05 | 3.82E-05 | 3.44E-06 | 4.98E-05 | 3.09E-05 | 3.09E-05 | 1.53E-05 |
| 2373 | 257472.47 | 4085613.9 | 4.22E-05 | 6.10E-04 | 4.50E-04 | 4.50E-04 | 2.51E-04 | 6.40E-06 | 9.30E-05 | 7.02E-05 | 7.02E-05 | 3.86E-05 | 3.48E-06 | 5.03E-05 | 3.13E-05 | 3.13E-05 | 1.55E-05 |
| 2374 | 257449.9 | 4085605.85 | 4.25E-05 | 6.15E-04 | 4.53E-04 | 4.53E-04 | 2.53E-04 | 6.46E-06 | 9.37E-05 | 7.08E-05 | 7.08E-05 | 3.89E-05 | 3.51E-06 | 5.07E-05 | 3.15E-05 | 3.15E-05 | 1.56E-05 |
| 2375 | 257427.34 | 4085597.41 | 4.29E-05 | 6.21E-04 | 4.57E-04 | 4.57E-04 | 2.55E-04 | 6.51E-06 | 9.46E-05 | 7.14E-05 | 7.14E-05 | 3.93E-05 | 3.54E-06 | 5.12E-05 | 3.18E-05 | 3.18E-05 | 1.57E-05 |
| 2376 | 257404.77 | 4085589.17 | 4.31E-05 | 6.23E-04 | 4.59E-04 | 4.59E-04 | 2.56E-04 | 6.53E-06 | 9.49E-05 | 7.17E-06 | 7.17E-05 | 3.94E-05 | 3.55E-06 | 5.13E-05 | 3.19E-06 | 3.19E-05 | 1.58E-05 |
| 2377 | 257382.21 | 4085580.93 | 4.30E-05 | 6.22E-04 | 4.59E-04 | 4.59E-04 | 2.56E-04 | 6.53E-06 | 9.48E-05 | 7.16E-05 | 7.16E-05 | 3.94E-05 | 3.55E-06 | 5.13E-05 | 3.19E-05 | 3.19E-05 | 1.98E-05 |
| 2378 | 257359.65 | 4085572.68 | 4.28E-05 | 6.19E-04 | 4.56E-04 | 4.56E-04 | 2.54E-04 | 6.49E-06 | 9.43E-05 | 7.12E-05 | 7.12E-05 | 3.92E-05 | 3.53E-06 | 5.10E-05 | 3.17E-05 | 3.17E-05 | 1.57E-06 |
| 2379 | 257337.08 | 4085564.44 | 4.23E-05 | 6.12E-04 | 4.51E-04 | 4.51E-04 | 2.51E-04 | 6.42E-06 | 9.32E-05 | 7.04E-05 | 7.04E-05 | 3.87E-05 | 3.49E-06 | 5.04E-05 | 3.13E-05 | 3.13E-06 | 1.55E-05 |
| 2380 | 257314.52 | 4085556.2 | 4.16E-05 | 6.02E-04 | 4.44E-04 | 4.44E-04 | 2.47E-04 | 6.31E-06 | 9.17E-05 | 6.93E-05 | 6.93E-05 | 3.81E-05 | 3.43E-06 | 4.96E-05 | 3.08E-05 | 3.08E-05 | 1.53E-05 |
| 2381 | 257291.96 | 4085547.96 | 4.07E-05 | 5.89E-04 | 4.34E-04 | 4.34E-04 | 2.42E-04 | 6.18E-06 | 8.97E-05 | 6.78E-06 | 6.78E-05 | 3.73E-05 | 3.36E-06 | 4.86E-05 | 3.02E-06 | 3.02E-05 | 1.49E-05 |
| 2382 | 257269.39 | 4085539.71 | 3.97E-05 | 5.74E-04 | 4.23E-04 | 4.23E-04 | 2.36E-04 | 6.03E-06 | 8.75E-05 | 6.61E-05 | 6.61E-05 | 3.63E-05 | 3.27E-06 | 4.73E-05 | 2.94E-05 | 2.94E-05 | 1.46E-05 |
| 2383 | 257246.83 | 4085531.47 | 3.86E-05 | 5.59E-04 | 4.12E-04 | 4.12E-04 | 2.30E-04 | 5.86E-06 | 8.51E-05 | 6.43E-05 | 6.43E-05 | 3.53E-05 | 3.18E-06 | 4.61E-05 | 2.86E-05 | 2.86E-05 | 1.42E-05 |
| 2384 | 257214.22 | 4085501.41 | 3.77E-05 | 5.46E-04 | 4.02E-04 | 4.02E-04 | 2.24E-04 | 5.72E-06 | 8.31E-05 | 6.28E-03 | 6.28E-05 | 3.45E-05 | 3.11E-06 | 4.50E-06 | 2.79E-05 | 2.79E-05 | 1.38E-05 |
| 2385 | 257204.17 | 4085479.59 | 3.77E-05 | 5.46E-04 | 4.02E-04 | 4.02E-04 | 2.24E-04 | 5.73E-06 | 8.32E-05 | 6.28E-05 | 6.28E-05 | 3.45E-05 | 3.11E-06 | 4.50E-05 | 2.80E-05 | 2.80E-05 | 1.38E-05 |
| 2386 | 257194.12 | 4085457.77 | 3.75E-05 | 5.42E-04 | 4.00E-04 | 4.00E-04 | 2.23E-04 | 5.69E-06 | 8.26E-05 | 6.24E-06 | 6.24E-05 | 3.43E-05 | 3.09E-06 | 4.47E-05 | 2.78E-05 | 2.78E-05 | 1.37E-05 |
| 2387 | 257184.08 | 4085435.95 | 3.69E-05 | 5.34E-04 | 3.93E-04 | 3.93E-04 | 2.19E-04 | 5.60E-06 | 8.13E-05 | 6.14E-05 | 6.14E-05 | 3.38E-05 | 3.04E-06 | 4.40E-05 | 2.73E-05 | 2.73E-05 | 1.35E-05 |
| 2388 | 257174.03 | 4085414.13 | 3.59E-05 | 5.20E-04 | 3.83E-04 | 3.83E-04 | 2.14E-04 | 5.45E-06 | 7.92E-05 | 5.98E-05 | 5.98E-05 | 3.29E-05 | 2.96E-06 | 4.28E-05 | 2.66E-05 | 2.66E-05 | 1.32E-05 |
| 2389 | 257163.98 | 4085392.31 | 3.46E-05 | 5.00E-04 | 3.68E-04 | 3.68E-04 | 2.05E-04 | 5.25E-06 | 7.62E-05 | 5.75E-05 | 5.75E-05 | 3.16E-05 | 2.85E-06 | 4.12E-05 | 2.56E-05 | 2.56E-05 | 1.27E-05 |
| 2390 | 257153.93 | 4085370.49 | 3.28E-05 | 4.75E-04 | 3.50E-04 | 3.50E-04 | 1.95E-04 | 4.98E-06 | 7.23E-05 | 5.46E-06 | 5.46E-05 | 3.00E-05 | 2.70E-06 | 3.91E-05 | 2.43E-06 | 2.43E-05 | 1.20E-05 |
| 2391 | 257143.88 | 4085348.67 | 3.07E-05 | 4.45E-04 | 3.28E-04 | 3.28E-04 | 1.83E-04 | 4.67E-06 | 6.77E-05 | 5.12E-05 | 5.12E-05 | 2.81E-05 | 2.53E-06 | 3.67E-05 | 2.28E-05 | 2.28E-05 | 1.13E-05 |
| 2392 | 257133.84 | 4085326.85 | 2.85E-05 | 4.12E-04 | 3.03E-04 | 3.03E-04 | 1.69E-04 | 4.32E-06 | 6.27E-05 | 4.74E-05 | 4.74E-05 | 2.60E-05 | 2.35E-06 | 3.39E-05 | 2.11E-05 | 2.11E-05 | 1.04E-05 |
| 2393 | 257123.79 | 4085305.03 | 2.61E-05 | 3.78E-04 | 2.78E-04 | 2.78E-04 | 1.55E-04 | 3.96E-06 | 5.75E-05 | 4.34E-05 | 4.34E-05 | 2.39E-05 | 2.15E-06 | 3.11E-05 | 1.93E-05 | 1.93E-05 | 9.57E-06 |
| 2394 | 257113.74 | 4085283.21 | 2.38E-05 | 3.44E-04 | 2.54E-04 | 2.54E-04 | 1.41E-04 | 3.61E-06 | 5.24E-05 | 3.96E-05 | 3.96E-05 | 2.18E-05 | 1.96E-06 | 2.84E-05 | 1.76E-05 | 1.76E-05 | 8.72E-06 |
| 2395 | 257103.69 | 4085261.39 | 2.16E-05 | 3.13E-04 | 2.31E-04 | 2.31E-04 | 1.29E-04 | 3.28E-06 | 4.76E-05 | 3.60E-05 | 3.60E-05 | 1.98E-05 | 1.78E-06 | 2.58E-05 | 1.60E-05 | 1.60E-05 | 7.93E-06 |
| 2396 | 257093.65 | 4085239.57 | 1.97E-05 | 2.85E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 2.99E-06 | 4.34E-05 | 3.28E-05 | 3.28E-05 | 1.80E-05 | 1.62E-06 | 2.35E-05 | 1.46E-05 | 1.46E-05 | 7.22E-06 |
| 2397 | 257083.6 | 4085217.75 | 1.80E-05 | 2.61E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.74E-06 | 3.97E-05 | 3.00E-05 | 3.00E-05 | 1.65E-05 | 1.49E-06 | 2.15E-05 | 1.33E-05 | 1.33E-05 | 6.61E-06 |
| 2398 | 257073.55 | 4085195.93 | 1.66E-05 | 2.41E-04 | 1.77E-04 | 1.77E-04 | 9.89E-05 | 2.52E-06 | 3.67E-05 | 2.77E-05 | 2.77E-05 | 1.52E-05 | 1.37E-06 | 1.98E-05 | 1.23E-05 | 1.23E-05 | 6.10E-06 |
| 2399 | 257585.28 | 4085655.11 | 3.90E-05 | 5.64E-04 | 4.16E-04 | 4.16E-04 | 2.32E-04 | 5.92E-06 | 8.60E-05 | 6.50E-05 | 6.50E-05 | 3.57E-05 | 3.22E-06 | 4.65E-05 | 2.89E-05 | 2.89E-05 | 1.43E-05 |
| 2400 | 257609.57 | 4085654.03 | 3.92E-05 | 5.67E-04 | 4.18E-04 | 4.18E-04 | 2.33E-04 | 5.95E-06 | 8.64E-05 | 6.53E-05 | 6.53E-05 | 3.59E-05 | 3.23E-06 | 4.67E-05 | 2.90E-05 | 2.90E-05 | 1.44E-05 |
| 2401 | 257633.85 | 4085652.96 | 3.93E-05 | 5.68E-04 | 4.19E-04 | 4.19E-04 | 2.34E-04 | 5.97E-06 | 8.66E-05 | 6.54E-05 | 6.54E-05 | 3.60E-05 | 3.24E-06 | 4.69E-05 | 2.91E-05 | 2.91E-05 | 1.44E-05 |
| 2402 | 257658.13 | 4085651.88 | 3.93E-05 | 5.69E-04 | 4.19E-04 | 4.19E-04 | 2.34E-04 | 5.97E-06 | 8.66E-05 | 6.54E-05 | 6.54E-05 | 3.60E-05 | 3.24E-06 | 4.69E-05 | 2.91E-05 | 2.91E-05 | 1.44E-05 |
| 2403 | 257682.41 | 4085650.81 | 3.92E-05 | 5.67E-04 | 4.18E-04 | 4.18E-04 | 2.33E-04 | 5.95E-06 | 8.64E-05 | 6.53E-06 | 6.53E-05 | 3.59E-05 | 3.23E-06 | 4.68E-05 | 2.91E-05 | 2.91E-05 | 1.44E-05 |
| 2404 | 257706.69 | 4085649.73 | 3.91E-05 | 5.65E-04 | 4.16E-04 | 4.16E-04 | 2.32E-04 | 5.93E-06 | 8.61E-05 | 6.50E-05 | 6.50E-05 | 3.57E-05 | 3.22E-06 | 4.66E-05 | 2.89E-05 | 2.89E-05 | 1.43E-05 |
| 2405 | 257730.97 | 4085648.66 | 3.88E-05 | 5.61E-04 | 4.14E-04 | 4.14E-04 | 2.31E-04 | 5.89E-06 | 8.55E-05 | 6.46E-05 | 6.46E-05 | 3.55E-05 | 3.20E-06 | 4.63E-05 | 2.87E-05 | 2.87E-05 | 1.42E-05 |
| 2406 | 257755.26 | 4085647.58 | 3.85E-05 | 5.57E-04 | 4.11E-04 | 4.11E-04 | 2.29E-04 | 5.85E-06 | 8.49E-05 | 6.41E-05 | 6.41E-05 | 3.52E-05 | 3.18E-06 | 4.59E-05 | 2.85E-05 | 2.85E-05 | 1.41E-05 |
| 2407 | 257779.54 | 4085646.51 | 3.82E-05 | 5.52E-04 | 4.07E-04 | 4.07E-04 | 2.27E-04 | 5.79E-06 | 8.41E-05 | 6.35E-05 | 6.35E-05 | 3.49E-05 | 3.15E-06 | 4.55E-05 | 2.83E-05 | 2.83E-05 | 1.40E-05 |
| 2408 | 257803.82 | 4085645.43 | 3.78E-

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2202 | 258179.05 | 4085328.52 | 9.52E-05 | 1.38E-03 | 1.02E-03 | 1.02E-03 | 5.66E-04 | 1.45E-05 | 2.10E-04 | 1.58E-04 | 1.58E-04 | 8.71E-05 | 7.85E-06 | 1.14E-04 | 7.05E-05 | 7.05E-05 | 3.49E-05 |
| 2203 | 258203.34 | 4085327.44 | 8.94E-05 | 1.29E-03 | 9.53E-04 | 9.53E-04 | 5.31E-04 | 1.36E-05 | 1.97E-04 | 1.49E-04 | 1.49E-04 | 8.18E-05 | 7.37E-06 | 1.07E-04 | 6.62E-05 | 6.62E-05 | 3.28E-05 |
| 2204 | 258227.62 | 4085326.37 | 8.33E-05 | 1.21E-03 | 8.88E-04 | 8.88E-04 | 4.95E-04 | 1.26E-05 | 1.84E-04 | 1.39E-04 | 1.39E-04 | 7.63E-05 | 6.87E-06 | 9.93E-05 | 6.17E-05 | 6.17E-05 | 3.05E-05 |
| 2205 | 258251.9 | 4085325.29 | 7.72E-05 | 1.12E-03 | 8.23E-04 | 8.23E-04 | 4.59E-04 | 1.17E-05 | 1.70E-04 | 1.28E-04 | 1.28E-04 | 7.06E-05 | 6.36E-06 | 9.20E-05 | 5.72E-05 | 5.72E-05 | 2.83E-05 |
| 2206 | 258276.18 | 4085324.22 | 7.11E-05 | 1.03E-03 | 7.58E-04 | 7.58E-04 | 4.22E-04 | 1.08E-05 | 1.57E-04 | 1.18E-04 | 1.18E-04 | 6.50E-05 | 5.85E-05 | 8.47E-05 | 5.26E-05 | 5.26E-05 | 2.61E-05 |
| 2207 | 258300.46 | 4085323.14 | 6.51E-05 | 9.41E-04 | 6.94E-04 | 6.94E-04 | 3.87E-04 | 9.88E-06 | 1.43E-04 | 1.08E-04 | 1.08E-04 | 5.95E-05 | 5.36E-05 | 7.76E-05 | 4.82E-05 | 4.82E-05 | 2.39E-05 |
| 2208 | 258324.75 | 4085322.07 | 5.92E-05 | 8.56E-04 | 6.31E-04 | 6.31E-04 | 3.52E-04 | 8.98E-05 | 1.30E-04 | 9.85E-06 | 9.85E-06 | 5.41E-05 | 4.88E-05 | 7.09E-05 | 4.38E-05 | 4.38E-05 | 2.17E-05 |
| 2209 | 258349.03 | 4085320.99 | 5.35E-05 | 7.74E-04 | 5.71E-04 | 5.71E-04 | 3.18E-04 | 8.13E-06 | 1.18E-04 | 8.91E-05 | 8.91E-05 | 4.90E-05 | 4.41E-06 | 6.38E-05 | 3.97E-05 | 3.97E-05 | 1.96E-05 |
| 2210 | 258373.31 | 4085319.91 | 4.84E-05 | 7.00E-04 | 5.16E-04 | 5.16E-04 | 2.85E-04 | 7.34E-05 | 1.07E-04 | 8.05E-05 | 8.05E-05 | 4.43E-06 | 3.99E-06 | 5.77E-05 | 3.58E-05 | 3.58E-05 | 1.77E-05 |
| 2211 | 257551.66 | 4085397.11 | 9.48E-05 | 1.37E-03 | 1.01E-03 | 1.01E-03 | 5.63E-04 | 1.44E-05 | 2.09E-04 | 1.58E-04 | 1.58E-04 | 8.67E-05 | 7.81E-06 | 1.13E-04 | 7.02E-05 | 7.02E-05 | 3.47E-05 |
| 2212 | 257529.09 | 4085388.87 | 9.48E-05 | 1.37E-03 | 1.01E-03 | 1.01E-03 | 5.63E-04 | 1.44E-05 | 2.09E-04 | 1.58E-04 | 1.58E-04 | 8.67E-05 | 7.81E-06 | 1.13E-04 | 7.02E-05 | 7.02E-05 | 3.47E-05 |
| 2213 | 257506.53 | 4085380.63 | 9.40E-05 | 1.36E-03 | 1.00E-03 | 1.00E-03 | 5.59E-04 | 1.43E-05 | 2.07E-04 | 1.57E-04 | 1.57E-04 | 8.61E-05 | 7.75E-06 | 1.12E-04 | 6.96E-05 | 6.96E-05 | 3.45E-05 |
| 2214 | 257483.97 | 4085372.38 | 9.26E-05 | 1.34E-03 | 9.87E-04 | 9.87E-04 | 5.50E-04 | 1.41E-05 | 2.04E-04 | 1.54E-04 | 1.54E-04 | 8.47E-05 | 7.63E-05 | 1.10E-04 | 6.86E-05 | 6.86E-05 | 3.39E-05 |
| 2215 | 257461.4 | 4085364.14 | 9.03E-05 | 1.31E-03 | 9.63E-04 | 9.63E-04 | 5.37E-04 | 1.37E-05 | 1.99E-04 | 1.50E-04 | 1.50E-04 | 8.26E-05 | 7.44E-06 | 1.08E-04 | 6.69E-05 | 6.69E-05 | 3.31E-05 |
| 2216 | 257438.84 | 4085355.9 | 8.71E-05 | 1.26E-03 | 9.28E-04 | 9.28E-04 | 5.18E-04 | 1.32E-05 | 1.92E-04 | 1.45E-04 | 1.45E-04 | 7.97E-05 | 7.18E-05 | 1.04E-04 | 6.45E-05 | 6.45E-05 | 3.19E-05 |
| 2217 | 257416.28 | 4085347.66 | 8.30E-05 | 1.20E-03 | 8.85E-04 | 8.85E-04 | 4.93E-04 | 1.26E-05 | 1.83E-04 | 1.38E-04 | 1.38E-04 | 7.59E-05 | 6.84E-06 | 9.89E-05 | 6.15E-05 | 6.15E-05 | 3.04E-05 |
| 2218 | 257383.67 | 4085317.59 | 7.87E-05 | 1.14E-03 | 8.39E-04 | 8.39E-04 | 4.68E-04 | 1.19E-05 | 1.73E-04 | 1.31E-04 | 1.31E-04 | 7.20E-05 | 6.49E-06 | 9.38E-05 | 5.83E-05 | 5.83E-05 | 2.88E-05 |
| 2219 | 257373.62 | 4085295.77 | 7.79E-05 | 1.13E-03 | 8.30E-04 | 8.30E-04 | 4.63E-04 | 1.18E-05 | 1.72E-04 | 1.30E-04 | 1.30E-04 | 7.13E-05 | 6.42E-06 | 9.28E-05 | 5.77E-05 | 5.77E-05 | 2.85E-05 |
| 2220 | 257363.57 | 4085273.96 | 7.55E-05 | 1.09E-03 | 8.05E-04 | 8.05E-04 | 4.49E-04 | 1.15E-05 | 1.66E-04 | 1.26E-04 | 1.26E-04 | 6.91E-05 | 6.23E-06 | 9.00E-05 | 5.59E-05 | 5.59E-05 | 2.77E-05 |
| 2221 | 257353.52 | 4085252.14 | 7.15E-05 | 1.03E-03 | 7.62E-04 | 7.62E-04 | 4.25E-04 | 1.09E-05 | 1.58E-04 | 1.19E-04 | 1.19E-04 | 6.54E-05 | 5.89E-06 | 8.53E-05 | 5.30E-05 | 5.30E-05 | 2.62E-05 |
| 2222 | 257343.47 | 4085230.32 | 6.61E-05 | 9.56E-04 | 7.05E-04 | 7.05E-04 | 3.93E-04 | 1.00E-05 | 1.46E-04 | 1.10E-04 | 1.10E-04 | 6.05E-05 | 5.45E-05 | 7.88E-05 | 4.90E-05 | 4.90E-06 | 2.42E-05 |
| 2223 | 257333.43 | 4085208.5 | 5.98E-05 | 8.66E-04 | 6.38E-04 | 6.38E-04 | 3.56E-04 | 9.08E-06 | 1.32E-04 | 9.96E-05 | 9.96E-05 | 5.48E-05 | 4.93E-06 | 7.13E-05 | 4.43E-05 | 4.43E-05 | 2.19E-05 |
| 2224 | 257323.38 | 4085186.68 | 5.33E-05 | 7.71E-04 | 5.68E-04 | 5.68E-04 | 3.17E-04 | 8.09E-06 | 1.17E-04 | 8.87E-05 | 8.87E-05 | 4.88E-05 | 4.39E-05 | 6.35E-05 | 3.95E-05 | 3.95E-05 | 1.95E-05 |
| 2225 | 257574.22 | 4085405.36 | 9.41E-05 | 1.36E-03 | 1.00E-03 | 1.00E-03 | 5.59E-04 | 1.43E-05 | 2.07E-04 | 1.57E-04 | 1.57E-04 | 8.61E-05 | 7.76E-05 | 1.12E-04 | 6.97E-05 | 6.97E-05 | 3.45E-05 |
| 2226 | 257598.5 | 4085404.28 | 9.69E-05 | 1.40E-03 | 1.03E-03 | 1.03E-03 | 5.76E-04 | 1.47E-05 | 2.13E-04 | 1.61E-04 | 1.61E-04 | 8.86E-05 | 7.98E-05 | 1.15E-04 | 7.17E-05 | 7.17E-05 | 3.55E-05 |
| 2227 | 257622.79 | 4085403.2 | 9.92E-05 | 1.43E-03 | 1.06E-03 | 1.06E-03 | 5.89E-04 | 1.50E-05 | 2.18E-04 | 1.65E-04 | 1.65E-04 | 9.07E-05 | 8.17E-05 | 1.18E-04 | 7.34E-05 | 7.34E-05 | 3.63E-05 |
| 2228 | 257647.07 | 4085402.13 | 1.01E-04 | 1.46E-03 | 1.08E-03 | 1.08E-03 | 6.00E-04 | 1.53E-05 | 2.22E-04 | 1.68E-04 | 1.68E-04 | 9.24E-05 | 8.32E-06 | 1.20E-04 | 7.48E-05 | 7.48E-05 | 3.70E-05 |
| 2229 | 257671.35 | 4085401.05 | 1.02E-04 | 1.48E-03 | 1.09E-03 | 1.09E-03 | 6.09E-04 | 1.55E-05 | 2.26E-04 | 1.70E-04 | 1.70E-04 | 9.37E-05 | 8.44E-05 | 1.22E-04 | 7.59E-05 | 7.59E-05 | 3.75E-05 |
| 2230 | 257695.63 | 4085399.98 | 1.03E-04 | 1.50E-03 | 1.10E-03 | 1.10E-03 | 6.15E-04 | 1.57E-05 | 2.28E-04 | 1.72E-04 | 1.72E-04 | 9.47E-05 | 8.53E-06 | 1.23E-04 | 7.66E-05 | 7.66E-05 | 3.79E-05 |
| 2231 | 257719.91 | 4085398.9 | 1.04E-04 | 1.50E-03 | 1.11E-03 | 1.11E-03 | 6.17E-04 | 1.57E-05 | 2.29E-04 | 1.73E-04 | 1.73E-04 | 9.50E-05 | 8.55E-06 | 1.24E-04 | 7.68E-05 | 7.68E-05 | 3.80E-05 |
| 2232 | 257744.19 | 4085397.83 | 1.04E-04 | 1.51E-03 | 1.11E-03 | 1.11E-03 | 6.20E-04 | 1.58E-05 | 2.30E-04 | 1.74E-04 | 1.74E-04 | 9.55E-05 | 8.60E-05 | 1.24E-04 | 7.73E-05 | 7.73E-05 | 3.82E-05 |
| 2233 | 257768.48 | 4085396.75 | 1.05E-04 | 1.51E-03 | 1.11E-03 | 1.11E-03 | 6.22E-04 | 1.59E-05 | 2.30E-04 | 1.74E-04 | 1.74E-04 | 9.57E-05 | 8.62E-05 | 1.25E-04 | 7.74E-05 | 7.74E-05 | 3.83E-05 |
| 2234 | 257792.76 | 4085395.68 | 1.05E-04 | 1.51E-03 | 1.11E-03 | 1.11E-03 | 6.21E-04 | 1.59E-05 | 2.30E-04 | 1.74E-04 | 1.74E-04 | 9.56E-05 | 8.61E-06 | 1.25E-04 | 7.74E-05 | 7.74E-05 | 3.83E-05 |
| 2235 | 257817.04 | 4085394.6 | 1.04E-04 | 1.51E-03 | 1.11E-03 | 1.11E-03 | 6.19E-04 | 1.58E-05 | 2.29E-04 | 1.73E-04 | 1.73E-04 | 9.53E-05 | 8.58E-06 | 1.24E-04 | 7.71E-05 | 7.71E-05 | 3.82E-05 |
| 2236 | 257841.32 | 4085393.53 | 1.03E-04 | 1.50E-03 | 1.10E-03 | 1.10E-03 | 6.15E-04 | 1.57E-05 | 2.28E-04 | 1.72E-04 | 1.72E-04 | 9.47E-05 | 8.53E-05 | 1.23E-04 | 7.66E-05 | 7.66E-05 | 3.79E-05 |
| 2237 | 257865.6 | 4085392.45 | 1.03E-04 | 1.48E-03 | 1.09E-03 | 1.09E-03 | 6.09E-04 | 1.56E-05 | 2.26E-04 | 1.71E-04 | 1.71E-04 | 9.38E-05 | 8.45E-06 | 1.22E-04 | 7.59E-05 | 7.59E-05 | 3.76E-05 |
| 2238 | 257889.89 | 4085391.37 | 1.01E-04 | 1.47E-03 | 1.08E-03 | 1.08E-03 | 6.03E-04 | 1.54E-05 | 2.23E-04 | 1.69E-04 | 1.69E-04 | 9.28E-05 | 8.36E-06 | 1.21E-04 | 7.51E-05 | 7.51E-05 | 3.72E-05 |
| 2239 | 257914.17 | 4085390.3 | 1.00E-04 | 1.45E-03 | 1.07E-03 | 1.07E-03 | 5.94E-04 | 1.52E-05 | 2.20E-04 | 1.66E-04 | 1.66E-04 | 9.15E-05 | 8.24E-05 | 1.19E-04 | 7.40E-05 | 7.40E-05 | 3.66E-05 |
| 2240 | 257938.45 | 4085389.22 | 9.83E-05 | 1.42E-03 | 1.05E-03 | 1.05E-03 | 5.84E-04 | 1.49E-05 | 2.17E-04 | 1.64E-04 | 1.64E-04 | 9.00E-05 | 8.11E-06 | 1.17E-04 | 7.28E-05 | 7.28E-05 | 3.60E-05 |
| 2241 | 257962.73 | 4085388.15 | 9.65E-05 | 1.40E-03 | 1.03E-03 | 1.03E-03 | 5.74E-04 | 1.46E-05 | 2.13E-04 | 1.61E-04 | 1.61E-04 | 8.83E-05 | 7.95E-06 | 1.15E-04 | 7.15E-05 | 7.15E-05 | 3.54E-05 |
| 2242 | 257987.01 | 4085387.07 | 9.44E-05 | 1.37E-03 | 1.01E-03 | 1.01E-03 | 5.61E-04 | 1.43E-05 | 2.08E-04 | 1.57E-04 | 1.57E-04 | 8.64E-05 | 7.78E-06 | 1.13E-04 | 6.99E-05 | 6.99E-05 | 3.46E-05 |
| 2243 | 258011.29 | 4085386 | 9.22E-05 | 1.33E-03 | 9.82E-04 | 9.82E-04 | 5.48E-04 | 1.40E-05 | 2.03E-04 | 1.53E-04 | 1.53E-04 | 8.43E-05 | 7.60E-05 | 1.10E-04 | 6.82E-05 | 6.82E-05 | 3.38E-05 |
| 2244 | 258035.58 | 4085384.92 | 8.97E-05 | 1.30E-03 | 9.56E-04 | 9.56E-04 | 5.33E-04 | 1.36E-05 | 1.98E-04 | 1.49E-04 | 1.49E-04 | 8.20E-05 | 7.39E-05 | 1.07E-04 | 6.64E-05 | 6.64E-05 | 3.29E-05 |
| 2245 | 258059.86 | 4085383.85 | 8.69E-05 | 1.26E-03 | 9.27E-04 | 9.27E-04 | 5.17E-04 | 1.32E-05 | 1.91E-04 | 1.45E-04 | 1.45E-04 | 7.95E-05 | 7.16E-06 | 1.04E-04 | 6.44E-05 | 6.44E-05 | 3.19E-05 |
| 2246 | 258084.14 | 4085382.77 | 8.39E-05 | 1.21E-03 | 8.95E-04 | 8.95E-04 | 4.99E-04 | 1.27E-05 | 1.85E-04 | 1.40E-04 | 1.40E-04 | 7.68E-05 | 6.92E-05 | 1.00E-04 | 6.22E-05 | 6.22E-05 | 3.08E-05 |
| 2247 | 258108.42 | 4085381.7 | 8.07E-05 | 1.17E-03 | 8.60E-04 | 8.60E-04 | 4.79E-04 | 1.22E-05 | 1.78E-04 | 1.34E-04 | 1.34E-04 | 7.38E-05 | 6.65E-05 | 9.62E-05 | 5.97E-05 | 5.97E-05 | 2.96E-05 |
| 2248 | 258132.7 | 4085380.62 | 7.71E-05 | 1.12E-03 | 8.22E-04 | 8.22E-04 | 4.58E-04 | 1.17E-05 | 1.70E-04 | 1.28E-04 | 1.28E-04 | 7.06E-05 | 6.36E-06 | 9.19E-05 | 5.71E-05 | 5.71E-05 | 2.83E-05 |
| 2249 | 258156.99 | 4085379.54 | 7.33E-05 | 1.06E-03 | 7.81E-04 | 7.81E-04 | 4.36E-04 | 1.11E-05 | 1.62E-04 | 1.22E-04 | 1.22E-04 | 6.71E-05 | 6.04E-05 | 8.74E-05 | 5.43E-05 | 5.43E-05 | 2.69E-05 |
| 2250 | 258181.27 | 4085378.47 | 6.93E-05 | 1.00E-03 | 7.39E-04 | 7.39E-04 | 4.12E-04 | 1.05E-05 | 1.53E-04 | 1.15E-04 | 1.15E-04 | 6.34E-05 | 5.71E-06 | 8.26E-05 | 5.13E-05 | 5.13E-05 | 2.54E-05 |
| 2251 | 258205.55 | 4085377.39 | 6.52E-05 | 9.42E-04 | 6.95E-04 | 6.95E-04 | 3.87E-04 | 9.89E-05 | 1.44E-04 | 1.08E-04 | 1.08E-04 | 5.96E-05 | 5.37E-06 | 7.77E-05 | 4.83E-05 | 4.83E-05 | 2.39E-05 |
| 2252 | 258229.83 | 4085376.32 | 6.10E-05 | 8.83E-04 | 6.51E-04 | 6.51E-04 | 3.63E-04 | 9.26E-06 | 1.34E-04 | 1.02E-04 | 1.02E-04 | 5.58E-05 | 5.03E-05 | 7.28E-05 | 4.52E-05 | 4.52E-05 | 2.24E-05 |
| 2253 | 258254.11 | 4085375.24 | 5.70E-05 | 8.24E-04 | 6.07E-04 | 6.07E-04 | 3.38E-04 | 8.64E-05 | 1.25E-04 | 9.48E-05 | 9.48E-05 | 5.21E-05 | 4.69E-06 | 6.79E-05 | 4.22E-05 | 4.22E-05 | 2.09E-05 |
| 2254 | 258278.39 | 4085374.17 | 5.29E-05 | 7.66E-04 | 5.64E-04 | 5.64E-04 | 3.15E-04 | 8.03E-06 | 1.17E-04 | 8.81E-05 | 8.81E-05 | 4.84E-05 | 4.36E-05 | 6.31E-05 | 3.92E-05 | 3.92E-05 | 1.94E-05 |
| 2255 | 258302.68 | 4085373.09 | 4.89E-05 | 7.08E-04 | 5.22E-04 | 5.22E-04 | 2.91E-04 | 7.43E-05 | 1.08E-04 | 8.15E-05 | 8.15E-05 | 4.48E-05 | 4.03E-05 | 5.84E-05 | 3.62E-05 | 3.62E-05 | 1.79E-05 |
| 2256 | 258326.96 | 4085372.02 | 4.50E-05 | 6.51E-04 | 4.80E-04 | 4.80E-04 | 2.68E-04 | 6.84E-05 | 9.92E-05 | 7.50E-05 | 7.50E-05 | 4.12E-05 | 3.71E-05 | 5.37E-05 | 3.34E-05 | 3.34E-05 | 1.65E-05 |
| 2257 | 258351.24 | 4085370.94 | 4.13E-05 | 5.98E-04 | 4.41E-04 | 4.41E-04 | 2.46E-04 | 6.27E-06 | 9.11E-05 | 6.88E-05 | 6.88E-05 | 3.78E-05 | 3.41E-06 | 4.93E-05 | 3.06E-05 | 3.06E-05 | 1.51E-05 |
| 2258 | 258375.52 | 4085369.87 | 3.79E-05 | 5.48E-04 | 4.04E-04 | 4.04E-04 | 2.25E-04 | 5.75E-06 | 8.35E-05 | 6.31E-05 | 6.31E-05 | 3.47E-05 | 3.12E-06 | 4.52E-05 | 2.81E-05 | 2.81E-05 | 1.39E-05 |
| 2259 | 257554.77 | 4085447.39 | 7.77E-05 | 1.12E-03 | 8.28E-04 | 8.28E-04 | 4.62E-04 | 1.18E-05 | 1.71E-04 | 1.29E-04 | 1.29E-04 | 7.11E-05 | 6.41E-06 | 9.27E-05 | 5.76E-05 | 5.76E-05 | 2.85E-05 |
| 2260 | 257533.11 | 4085439.48 | 7.82E-05 | 1.13E-03 | 8.33E-04 | 8.33E-04 | 4.65E-04 | 1.19E-05 | 1.72E-04 | 1.30E-04 | 1.30E-04 | 7.15E-05 | 6.44E-06 | 9.32E-05 | 5.79E-05 | 5.79E-05 | 2.87E-05 |
| 2261 | 257511.45 | 4085431.57 | 7.82E-05 | 1.13E-03 | 8.34E-04 | 8.34E-04 | 4.65E-04 | 1.19E-05 | 1.72E-04 | 1.30E-04 | 1.30E-04 | 7.16E-05 | 6.45E-05 | 9.33E-05 | 5.79E-05 | 5.79E-05 | 2.87E-05 |
| 2262 | 257489.79 | 4085423.65 | 7.78E-05 | 1.13E-03 | 8.30E-04 | 8.30E-04 | 4.63E-04 | 1.18E-05 | 1.72E-04 | 1.30E-04 | 1.30E-04 | 7.12E-05 | 6.42E-06 | 9.28E-05 | 5.77E-05 | 5.77E-05 | 2.85E-05 |
| 2263 | 257468.13 | 4085415.74 | 7.70E-05 | 1.11E-03 | 8.21E-04 | 8.21E-04 | 4.58E-04 | 1.17E-05 | 1.70E-04 | 1.28E-04 | 1.28E-04 | 7.05E-05 | 6.35E-06 | 9.18E-05 | 5.70E-05 | 5.70E-05 | 2.82E-05 |
| 2264 | 257446.47 | 4085407.83 | 7.57E-05 | 1.09E-03 | 8.07E-04 | 8.07E-04 | 4.50E-04 | 1.15E-05 | 1.67E-04 | 1.26E-04 | 1.26E-04 | 6.93E-05 | 6.24E-06 | 9.03E-05 | 5.61E-05 | 5.61E-05 | 2.77E-05 |
| 2265 | 257424.81 | 4085399.92 | 7.38E-05 | 1.07E-03 | 7.86E-04 | 7.86E-04 | 4.38E-04 | 1.12E-05 | 1.63E-04 | 1.23E-04 | 1.23E-04 | 6.75E-05 | 6.08E-06 | 8.79E-05 | 5.46E-05 | 5.46E-05 | 2.70E-05 |
| 2266 | 257403.15 | 4085392 | 7.12E-05 | 1.03E-03 | 7.59E-04 | 7.59E-04 | 4.23E-04 | 1.08E-05 | 1.57E-04 | 1.19E-04 | 1.19E-04 | 6.52E-05 | 5.87E-06 | 8.49E-05 | 5.28E-05 | 5.28E-05 | 2.61E-05 |
| 2267 | 257381.48 | 4085384.09 | 6.82E-05 | 9.87E-04 | 7.28E-04 | 7.28E-04 | 4.06E-04 | 1.04E-05 | 1.50E-04 | 1.14E-04 | 1.14E-04 | 6.25E-05 | 5.63E-06 | 8.14E-05 | 5.05E-05 | 5.05E-05 | 2.50E-05 |
| 2268 | 257350.18 | 4085355.23 | 6.52E-05 | 9.43E-04 | 6.95E-04 | 6.95E-04 | 3.88E-04 | 9.90E-06 | 1.44E-04 | 1.09E-04 | 1.09E-04 | 5.97E-05 | 5.38E-06 | 7.78E-05 | 4.83E-05 | 4.83E-05 | 2.39E-05 |
| 2269 | 257340.53 | 4085334.28 | 6.48E-05 | 9.37E-04 | 6.91E-04 | 6.91E-04 | 3.85E-04 | 9.83E-06 | 1.43E-04 | 1.08E-04 | 1.08E-04 | 5.93E-05 | 5.34E-06 | 7.73E-05 | 4.80E-05 | 4.80E-05 | 2.38E-05 |
| 2270 | 257330.89 | 4085313.34 | 6.35E-05 | 9.18E-04 | 6.77E-04 | 6.77E-04 | 3.77E-04 | 9.64E-06 | 1.40E-04 | 1.06E-04 | 1.06E-04 | 5.81E-05 | 5.23E-06 | 7.57E-05 | 4.70E-05 | 4.70E-05 | 2.33E-05 |
| 2271 | 257321.24 | 4085292.39 | 6.12E-05 | 8.85E-04 | 6.52E-04 | 6.52E-04 | 3.63E-04 | 9.28E-06 | 1.35E-04 | 1.02E-04 | 1.02E-04 | 5.60E-05 | 5.04E-06 | 7.29E-05 | 4.53E-05 | 4.53E-05 | 2.24E-05 |
| 2272 | 257311.59 | 4085271.44 | 5.78E-05 | 8.36E-04 | 6.16E-04 | 6.16E-04 | 3.43E-04 | 8.77E-05 | 1.27E-04 | 9.62E-05 | 9.62E-05 | 5.29E-05 | 4.76E-06 | 6.89E-05 | 4.28E-05 | 4.28E-05 | 2.12E-05 |
| 2273 | 257301.95 | 4085250.5 | 5.36E-05 | 7.75E-04 | 5.71E-04 | 5.71E-04 | 3.19E-04 | 8.13E-06 | 1.18E-04 | 8.92E-05 | 8.92E-05 | 4.90E-05 | 4.42E-06 | 6.39E-05 | 3.97E-05 | 3.97E-05 | 1.96E-05 |
| 2274 | 257292.3 | 4085229.55 | 4.89E-05 | 7.07E-04 | 5.21E-04 | 5.21E-04 | 2.90E-04 | 7.42E-05 | 1.08E-04 | 8.14E-05 | 8.14E-05 | 4.47E-05 | 4.03E-06 | 5.83E-05 | 3.62E-05 | 3.62E-05 | 1.79E-05 |
| 2275 | 257282.68 | 4085208.6 | 4.40E-05 | 6.37E-04 | 4.69E-04 | 4.69E-04 | 2.62E-04 | 6.68E-06 | 9.70E-05 | 7.33E-05 | 7.33E-05 | 4.03E-05 | 3.63E-06 | 5.25E-05 | 3.26E-05 | 3.26E-05 | 1.61E-05 |
| 2276 | 257273.01 | 4085187.65 | 3.93E-05 | 5.68E-04 | 4.19E-04 | 4.19E-04 | 2.34E-04 | 5.96E-05 | 8.66E-05 | 6.54E-05 | 6.54E-05 | 3.60E-05 | 3.24E-06 | 4.68E-05 | 2.91E-05 | 2.91E-05 | 1.44E-05 |
| 2277 | 257576.43 | 4085455.31 | 7.69E-05 | 1.11E-03 | 8.19E-04 | 8.19E-04 | 4.57E-04 | 1.17E-05 | 1.69E-04 | 1.28E-04 | 1.28E-04 | 7.03E-05 | 6.34E-06 | 9.16E-05 | 5.69E-05 | 5.69E-05 | 2.82E-05 |
| 2278 | 257600.72 | 4085454.23 | 7.85E-05 | 1.14E-03 | 8.37E-04 | 8.37E-04 | 4.67E-04 | 1.19E-05 | 1.73E-04 | 1.31E-04 | 1.31E-04 | 7.19E-05 | 6.47E-06 | 9.36E-05 | 5.82E-05 | 5.82E-05 | 2.88E-05 |
| 2279 | 257625 | 4085453.16 | 7.99E-05 | 1.16E-03 | 8.52E-04 | 8.52E-04 | 4.75E-04 | 1.21E-05 | 1.76E-04 | 1.33E-04 | 1.33E-04 | 7.31E-05 | 6.59E-06 | 9.52E-05 | 5.92E-05 | 5.92E-05 | 2.93E-05 |
| 2280 | 257649.28 | 4085452.08 | 8.09E-05 | 1.17E-03 | 8.63E-04 | 8.63E-04 | 4.81E-04 | 1.23E-05 | 1.78E-04 | 1.35E-04 | 1.35E-04 | 7.41E-05 | 6.67E-06 | 9.65E-05 | 5.99E-05 | 5.99E-05 | 2.97E-05 |
| 2281 | 257673.56 | 4085451 | 8.14E-05 | 1.18E-03 | 8.67E-04 | 8.67E-04 | 4.84E-04 | 1.23E-05 | 1.79E-04 | 1.35E-04 | 1.35E-04 | 7.45E-05 | 6.71E-06 | 9.70E-05 | 6.03E-05 | 6.03E-05 | 2.98E-05 |
| 2282 | 257697.84 | 4085449.93 | 8.17E-05 | 1.18E-03 | 8.71E-04 | 8.71E-04 | 4.85E-04 | 1.24E-05 | 1.80E-04 | 1.36E-04 | 1.36E-04 | 7.48E-05 | 6.74E-05 | 9.74E-05 | 6.05E-05 | 6.05E-05 | 3.00E-05 |
| 2283 | 257722.13 | 4085448.85 | 8.20E-05 | 1.19E-03 | 8.75E-04 | 8.75E-04 | 4.88E-04 | 1.25E-05 | 1.81E-04 | 1.37E-04 | 1.37E-04 | 7.51E-05 | 6.76E-05 | 9.78E-05 | 6.08E-06 | 6.08E-05 | 3.01E-05 |
| 2284 | 257746.41 | 4085447.78 | 8.22E-05 | 1.19E-03 | 8.76E-04 | 8.76E-04 | 4.88E-04 | 1.25E-05 | 1.81E-04 | 1.37E-04 | 1.37E-04 | 7.52E-05 | 6.77E-06 | 9.80E-05 | 6.09E-05 | 6.09E-05 | 3.01E-05 |
| 2285 | 257770.89 | 4085446.7 | 8.21E-05 | 1.19E-03 | 8.76E-04 | 8.76E-04 | 4.88E-04 | 1.25E-05 | 1.81E-04 | 1.37E-04 | 1.37E-04 | 7.52E-05 | 6.77E-06 | 9.79E-05 | 6.08E-05 | 6.08E-05 | 3.01E-05 |
| 2286 | 257794.97 | 4085445.63 | 8.19E-05 | 1.18E-03 | 8.73E-04 | 8.73E-04 | 4.87E-04 | 1.24E-05 | 1.80E-04 | 1.36E-04 | 1.36E-04 | 7.49E-05 | 6.75E-06 | 9.76E-05 | 6.06E-05 | 6.06E-05 | 3.00E-05 |
| 2287 | 257819.25 | 4085444.55 | 8.14E-05 | 1.18E-03 | 8.67E-04 | 8.67E-04 | 4.84E-04 | 1.23E-05 | 1.79E-04 | 1.35E-04 | 1.35E-04 | 7.45E-05 | 6.71E-06 | 9.70E-05 | 6.03E-05 | 6.03E-05 | 2.98E-05 |
| 2288 | 257843.53 | 4085443.48 | 8.07E-05 | 1.17E-03 | 8.60E-04 | 8.60E-04 | 4.79E-04 | 1.22E-05 | 1.78E-04 | 1.34E-04 | 1.34E-04 | 7.38E-05 | 6.65E-06 | 9.62E-05 | 5.97E-05 | 5.97E-05 | 2.96E-05 |
| 2289 | 257867.82 | 4085442.4 | 7.98E-05 | 1.15E-03 | 8.50E-04 | 8.50E-04 | 4.74E-04 | 1.21E-05 | 1.76E-04 | 1.33E-04 | 1.33E-04 | 7.30E-05 | 6.57E-06 | 9.51E-05 | 5.91E-05 | 5.91E-05 | 2.92E-05 |
| 2290 | 257892.1 | 4085441.33 | 7.87E-05 | 1.14E-03 | 8.39E-04 | 8.39E-04 | 4.68E-04 | 1.19E-05 | 1.73E-04 | 1.31E-04 | 1.31E-04 | 7.20E-05 | 6.48E-06 | 9.38E-05 | 5.83E-05 | 5.83E-05 | 2.88E-05 |
| 2291 | 257916.38 | 4085440.25 | 7.74E-05 | 1.12E-03 | 8.25E-04 | 8.25E-04 | 4.60E-04 | 1.17E-05 | 1.71E-04 | 1.29E-04 | 1.29E-04 | 7.08E-05 | 6.38E-06 | 9.23E-05 | 5.73E-05 | 5.73E-05 | 2.84E-05 |
| 2292 | 257940.66 | 4085439.17 | 7.80E-05 | 1.10E-03 | 8.10E-04 | 8.10E-04 | 4.52E-04 | 1.15E-05 | 1.67E-04 | 1.27E-04 | 1.27E-04 | 6.96E-05 | 6.27E-06 | 9.06E-05 | 5.63E-05 | 5.63E-05 | 2.79E-05 |
| 2293 | 257964.94 | 4085438.1 | 7.44E-05 | 1.08E-03 | 7.93E-04 | 7.93E-04 | 4.42E-04 | 1.13E-05 | 1.64E-04 | 1.24E-04 | 1.24E-04 | 6.81E-05 | 6.14E-06 | 8.87E-05 | 5.51E-05 | 5.51E-05 | 2.73E-05 |
| 2294 | 257989.23 | 4085437.02 | 7.27E-05 | 1.05E-03 | 7.75E-04 | 7.75E-04 | 4.32E-04 | 1.10E-05 | 1.60E-04 | 1.21E-04 | 1.21E-04 | 6.65E-05 | 5.99E-06 | 8.67E-05 | 5.38E-05 | 5.38E-05 | 2.67E-05 |
| 2295 | 258013.51 | 4085435.95 | 7.08E-05 | 1.02E-03 | 7.55E-04 | 7.55E-04 | 4.21E-04 | 1.07E-05 | 1.56E-04 | 1.18E-04 | 1.18E-04 | 6.48E-05 | 5.84E-06 | 8.44E-05 | 5.24E-05 | 5.24E-05 | 2.60E-05 |
| 2296 | 258037.79 | 4085434.87 | 6.88E-05 | 9.94E-04 | 7.33E-04 | 7.33E-04 | 4.09E-04 | 1.04E-05 | 1.52E-04 | 1.14E-04 | 1.14E-04 | 6.29E-05 | 5.67E-06 | 8.20E-05 | 5.09E-05 | 5.09E-05 | 2.52E-06 |
| 2297 | 258062.07 | 4085433.8 | 6.65E-05 | 9.62E-04 | 7.09E-04 | 7.09E-04 | 3.95E-04 | 1.01E-05 | 1.47E-04 | 1.11E-04 | 1.11E-04 | 6.09E-05 | 5.48E-06 | 7.93E-05 | 4.93E-05 | 4.93E-05 | 2.44E-05 |
| 2298 | 258086.35 | 4085432.72 | 8.41E-05 | 9.27E-04 | 6.83E-04 | 6.83E-04 | 3.81E-04 | 9.72E-06 | 1.41E-04 | 1.07E-04 | 1.07E-04 | 5.86E-05 | 5.28E-06 | 7.64E-05 | 4.74E-05 | 4.74E-05 | 2.35E-05 |
| 2299 | 258110.63 | 4085431.65 | 6.14E-05 | 8.89E-04 | 6.55E-04 | 6.55E-04 | 3.65E-04 | 9.32E-06 | 1.35E-04 | 1.02E-04 | 1.02E-04 | 5.62E-05 | 5.06E-06 | 7.32E-05 | 4.55E-05 | 4.55E-05 | 2.25E-05 |
| 2300 | 258134.92 | 4085430.57 | 5.86E-05 | 8.48E-04 | 6.25E-04 | 6.25E-04 | 3.48E-04 | 8.90E-06 | 1.29E-04 | 9.76E-05 | 9.76E-05 | 5.37E-05 | 4.83E-06 | 6.99E-05 | 4.34E-05 | 4.34E-05 | 2.15E-05 |
| 2301 | 258159.2 | 4085429.5 | 5.57E-05 | 8.06E-04 | 5.94E-04 | 5.94E-04 | 3.31E-04 | 8.45E-06 | 1.23E-04 | 9.27E-05 | 9.27E-05 | 5.10E-05 | 4.59E-06 | 6.64E-05 | 4.13E-05 | 4.13E-05 | 2.04E-05 |
| 2302 | 258183.48 | 4085428.42 | 5.27E-05 | 7.63E-04 | 5.62E-04 | 5.62E-04 | 3.13E-04 | 8.00E-06 | 1.16E-04 | 8.78E-05 | 8.78E-05 | 4.83E-05 | 4.35E-06 | 6.29E-05 | 3.91E-05 | 3.91E-05 | 1.93E-05 |
| 2303 | 258207.76 | 4085427.34 | 4.98E-05 | 7.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2097 | 257471.27 | 4085176.76 | 1.70E-04 | 2.45E-03 | 1.81E-03 | 1.81E-03 | 1.01E-03 | 2.57E-05 | 3.74E-04 | 2.82E-04 | 2.82E-04 | 1.55E-04 | 1.40E-05 | 2.02E-04 | 1.26E-04 | 1.26E-04 | 6.22E-05 |
| 2098 | 257591.87 | 4085254.43 | 2.25E-04 | 3.26E-03 | 2.40E-03 | 2.40E-03 | 1.34E-03 | 3.42E-05 | 4.97E-04 | 3.75E-04 | 3.75E-04 | 2.06E-04 | 1.86E-05 | 2.69E-04 | 1.67E-04 | 1.67E-04 | 8.27E-05 |
| 2099 | 257616.15 | 4085253.35 | 2.37E-04 | 3.43E-03 | 2.53E-03 | 2.53E-03 | 1.41E-03 | 3.60E-05 | 5.23E-04 | 3.95E-04 | 3.95E-04 | 2.17E-04 | 1.96E-05 | 2.83E-04 | 1.76E-04 | 1.76E-04 | 8.71E-05 |
| 2100 | 257640.43 | 4085252.28 | 2.47E-04 | 3.57E-03 | 2.63E-03 | 2.63E-03 | 1.47E-03 | 3.75E-05 | 5.44E-04 | 4.11E-04 | 4.11E-04 | 2.26E-04 | 2.04E-05 | 2.95E-04 | 1.83E-04 | 1.83E-04 | 9.06E-05 |
| 2101 | 257664.71 | 4085251.2 | 2.55E-04 | 3.68E-03 | 2.72E-03 | 2.72E-03 | 1.51E-03 | 3.87E-05 | 5.61E-04 | 4.24E-04 | 4.24E-04 | 2.33E-04 | 2.10E-05 | 3.04E-04 | 1.89E-04 | 1.89E-04 | 9.34E-05 |
| 2102 | 257688.99 | 4085250.12 | 2.61E-04 | 3.77E-03 | 2.78E-03 | 2.78E-03 | 1.55E-03 | 3.96E-05 | 5.74E-04 | 4.34E-04 | 4.34E-04 | 2.39E-04 | 2.15E-05 | 3.11E-04 | 1.93E-04 | 1.93E-04 | 9.56E-05 |
| 2103 | 257713.28 | 4085249.05 | 2.65E-04 | 3.84E-03 | 2.83E-03 | 2.83E-03 | 1.58E-03 | 4.03E-05 | 5.85E-04 | 4.42E-04 | 4.42E-04 | 2.43E-04 | 2.19E-05 | 3.16E-04 | 1.97E-04 | 1.97E-04 | 9.73E-05 |
| 2104 | 257737.56 | 4085247.97 | 2.69E-04 | 3.89E-03 | 2.87E-03 | 2.87E-03 | 1.60E-03 | 4.08E-05 | 5.93E-04 | 4.48E-04 | 4.48E-04 | 2.46E-04 | 2.22E-05 | 3.21E-04 | 1.99E-04 | 1.99E-04 | 9.86E-05 |
| 2105 | 257761.84 | 4085246.9 | 2.72E-04 | 3.93E-03 | 2.90E-03 | 2.90E-03 | 1.62E-03 | 4.13E-05 | 5.99E-04 | 4.52E-04 | 4.52E-04 | 2.49E-04 | 2.24E-05 | 3.24E-04 | 2.01E-04 | 2.01E-04 | 9.96E-05 |
| 2106 | 257786.12 | 4085245.82 | 2.74E-04 | 3.96E-03 | 2.92E-03 | 2.92E-03 | 1.63E-03 | 4.16E-05 | 6.04E-04 | 4.58E-04 | 4.56E-04 | 2.51E-04 | 2.26E-05 | 3.27E-04 | 2.03E-04 | 2.03E-04 | 1.00E-04 |
| 2107 | 257810.4 | 4085244.75 | 2.75E-04 | 3.98E-03 | 2.94E-03 | 2.94E-03 | 1.64E-03 | 4.18E-05 | 6.07E-04 | 4.58E-04 | 4.58E-04 | 2.52E-04 | 2.27E-05 | 3.28E-04 | 2.04E-04 | 2.04E-04 | 1.01E-04 |
| 2108 | 257834.68 | 4085243.67 | 2.76E-04 | 4.00E-03 | 2.95E-03 | 2.95E-03 | 1.64E-03 | 4.19E-05 | 6.09E-04 | 4.60E-04 | 4.60E-04 | 2.53E-04 | 2.28E-05 | 3.29E-04 | 2.05E-04 | 2.05E-04 | 1.01E-04 |
| 2109 | 257858.97 | 4085242.6 | 2.77E-04 | 4.00E-03 | 2.95E-03 | 2.95E-03 | 1.64E-03 | 4.20E-05 | 6.10E-04 | 4.61E-04 | 4.61E-04 | 2.53E-04 | 2.28E-05 | 3.30E-04 | 2.05E-04 | 2.05E-04 | 1.01E-04 |
| 2110 | 257883.25 | 4085241.52 | 2.75E-04 | 3.96E-03 | 2.93E-03 | 2.93E-03 | 1.63E-03 | 4.17E-05 | 6.06E-04 | 4.57E-04 | 4.57E-04 | 2.52E-04 | 2.27E-05 | 3.28E-04 | 2.04E-04 | 2.04E-04 | 1.01E-04 |
| 2111 | 257907.53 | 4085240.45 | 2.73E-04 | 3.95E-03 | 2.91E-03 | 2.91E-03 | 1.62E-03 | 4.15E-05 | 6.02E-04 | 4.55E-04 | 4.55E-04 | 2.50E-04 | 2.25E-05 | 3.26E-04 | 2.02E-04 | 2.02E-04 | 1.00E-04 |
| 2112 | 257931.81 | 4085239.37 | 2.72E-04 | 3.94E-03 | 2.90E-03 | 2.90E-03 | 1.62E-03 | 4.13E-05 | 6.00E-04 | 4.53E-04 | 4.53E-04 | 2.49E-04 | 2.24E-05 | 3.25E-04 | 2.02E-04 | 2.02E-04 | 9.98E-05 |
| 2113 | 257956.09 | 4085238.29 | 2.71E-04 | 3.91E-03 | 2.89E-03 | 2.89E-03 | 1.61E-03 | 4.11E-05 | 5.96E-04 | 4.50E-04 | 4.50E-04 | 2.48E-04 | 2.23E-05 | 3.23E-04 | 2.00E-04 | 2.00E-04 | 9.92E-05 |
| 2114 | 257980.38 | 4085237.22 | 2.68E-04 | 3.88E-03 | 2.86E-03 | 2.86E-03 | 1.60E-03 | 4.07E-05 | 5.91E-04 | 4.47E-04 | 4.47E-04 | 2.46E-04 | 2.21E-05 | 3.20E-04 | 1.99E-04 | 1.99E-04 | 9.84E-05 |
| 2115 | 258004.66 | 4085236.14 | 2.66E-04 | 3.84E-03 | 2.83E-03 | 2.83E-03 | 1.58E-03 | 4.03E-05 | 5.85E-04 | 4.42E-04 | 4.42E-04 | 2.43E-04 | 2.19E-05 | 3.17E-04 | 1.97E-04 | 1.97E-04 | 9.73E-05 |
| 2116 | 258028.94 | 4085235.07 | 2.62E-04 | 3.79E-03 | 2.79E-03 | 2.79E-03 | 1.56E-03 | 3.98E-05 | 5.77E-04 | 4.36E-04 | 4.36E-04 | 2.40E-04 | 2.16E-05 | 3.12E-04 | 1.94E-04 | 1.94E-04 | 9.60E-05 |
| 2117 | 258053.22 | 4085233.99 | 2.58E-04 | 3.73E-03 | 2.75E-03 | 2.75E-03 | 1.53E-03 | 3.91E-05 | 5.68E-04 | 4.29E-04 | 4.29E-04 | 2.36E-04 | 2.12E-05 | 3.07E-04 | 1.91E-04 | 1.91E-04 | 9.44E-05 |
| 2118 | 258077.5 | 4085232.92 | 2.52E-04 | 3.65E-03 | 2.69E-03 | 2.69E-03 | 1.50E-03 | 3.83E-05 | 5.56E-04 | 4.20E-04 | 4.20E-04 | 2.31E-04 | 2.08E-05 | 3.01E-04 | 1.87E-04 | 1.87E-04 | 9.25E-05 |
| 2119 | 258101.78 | 4085231.84 | 2.46E-04 | 3.56E-03 | 2.63E-03 | 2.63E-03 | 1.46E-03 | 3.74E-05 | 5.43E-04 | 4.10E-04 | 4.10E-04 | 2.25E-04 | 2.03E-05 | 2.94E-04 | 1.82E-04 | 1.82E-04 | 9.03E-05 |
| 2120 | 258126.07 | 4085230.77 | 2.39E-04 | 3.46E-03 | 2.55E-03 | 2.55E-03 | 1.42E-03 | 3.63E-05 | 5.27E-04 | 3.98E-04 | 3.98E-04 | 2.19E-04 | 1.97E-05 | 2.85E-04 | 1.77E-04 | 1.77E-04 | 8.76E-05 |
| 2121 | 258150.35 | 4085229.69 | 2.30E-04 | 3.33E-03 | 2.46E-03 | 2.46E-03 | 1.37E-03 | 3.50E-05 | 5.08E-04 | 3.83E-04 | 3.83E-04 | 2.11E-04 | 1.90E-05 | 2.75E-04 | 1.71E-04 | 1.71E-04 | 8.44E-05 |
| 2122 | 258174.63 | 4085228.62 | 2.20E-04 | 3.19E-03 | 2.35E-03 | 2.35E-03 | 1.31E-03 | 3.34E-05 | 4.85E-04 | 3.67E-04 | 3.67E-04 | 2.02E-04 | 1.82E-05 | 2.63E-04 | 1.63E-04 | 1.63E-04 | 8.08E-05 |
| 2123 | 258198.91 | 4085227.54 | 2.09E-04 | 3.02E-03 | 2.22E-03 | 2.22E-03 | 1.24E-03 | 3.17E-05 | 4.60E-04 | 3.47E-04 | 3.47E-04 | 1.91E-04 | 1.72E-05 | 2.49E-04 | 1.54E-04 | 1.54E-04 | 7.65E-05 |
| 2124 | 258223.19 | 4085226.46 | 1.95E-04 | 2.82E-03 | 2.08E-03 | 2.08E-03 | 1.16E-03 | 2.96E-05 | 4.30E-04 | 3.25E-04 | 3.25E-04 | 1.79E-04 | 1.61E-05 | 2.33E-04 | 1.45E-04 | 1.45E-04 | 7.15E-05 |
| 2125 | 258247.48 | 4085225.39 | 1.80E-04 | 2.60E-03 | 1.92E-03 | 1.92E-03 | 1.07E-03 | 2.73E-05 | 3.96E-04 | 2.99E-04 | 2.99E-04 | 1.65E-04 | 1.48E-05 | 2.14E-04 | 1.33E-04 | 1.33E-04 | 6.59E-05 |
| 2126 | 258271.76 | 4085224.31 | 1.63E-04 | 2.36E-03 | 1.74E-03 | 1.74E-03 | 9.68E-04 | 2.47E-05 | 3.59E-04 | 2.71E-04 | 2.71E-04 | 1.49E-04 | 1.34E-05 | 1.94E-04 | 1.21E-04 | 1.21E-04 | 5.97E-05 |
| 2127 | 258296.04 | 4085223.24 | 1.45E-04 | 2.10E-03 | 1.54E-03 | 1.54E-03 | 8.61E-04 | 2.20E-05 | 3.19E-04 | 2.41E-04 | 2.41E-04 | 1.33E-04 | 1.19E-05 | 1.73E-04 | 1.07E-04 | 1.07E-04 | 5.31E-05 |
| 2128 | 258320.32 | 4085222.16 | 1.27E-04 | 1.83E-03 | 1.35E-03 | 1.35E-03 | 7.52E-04 | 1.92E-05 | 2.79E-04 | 2.11E-04 | 2.11E-04 | 1.16E-04 | 1.04E-05 | 1.51E-04 | 9.37E-05 | 9.37E-05 | 4.64E-05 |
| 2129 | 258344.6 | 4085221.09 | 1.09E-04 | 1.57E-03 | 1.16E-03 | 1.16E-03 | 6.47E-04 | 1.65E-05 | 2.40E-04 | 1.81E-04 | 1.81E-04 | 9.96E-05 | 8.97E-06 | 1.30E-04 | 8.06E-06 | 8.06E-05 | 3.99E-05 |
| 2130 | 257548.14 | 4085297.54 | 1.52E-04 | 2.20E-03 | 1.62E-03 | 1.62E-03 | 9.04E-04 | 2.31E-05 | 3.35E-04 | 2.53E-04 | 2.53E-04 | 1.39E-04 | 1.25E-05 | 1.81E-04 | 1.13E-04 | 1.13E-04 | 5.57E-05 |
| 2131 | 257526.47 | 4085289.63 | 1.49E-04 | 2.16E-03 | 1.59E-03 | 1.59E-03 | 8.88E-04 | 2.27E-05 | 3.29E-04 | 2.49E-04 | 2.49E-04 | 1.37E-04 | 1.23E-05 | 1.78E-04 | 1.11E-04 | 1.11E-04 | 5.47E-05 |
| 2132 | 257504.81 | 4085281.71 | 1.44E-04 | 2.09E-03 | 1.54E-03 | 1.54E-03 | 8.58E-04 | 2.19E-05 | 3.18E-04 | 2.40E-04 | 2.40E-04 | 1.32E-04 | 1.19E-05 | 1.72E-04 | 1.07E-04 | 1.07E-04 | 5.29E-05 |
| 2133 | 257483.15 | 4085273.8 | 1.37E-04 | 1.98E-03 | 1.46E-03 | 1.46E-03 | 8.14E-04 | 2.08E-05 | 3.02E-04 | 2.28E-04 | 2.28E-04 | 1.25E-04 | 1.13E-05 | 1.63E-04 | 1.01E-04 | 1.01E-04 | 5.02E-05 |
| 2134 | 257451.85 | 4085244.94 | 1.29E-04 | 1.86E-03 | 1.37E-03 | 1.37E-03 | 7.65E-04 | 1.95E-05 | 2.84E-04 | 2.14E-04 | 2.14E-04 | 1.18E-04 | 1.06E-05 | 1.54E-04 | 9.54E-05 | 9.54E-05 | 4.72E-05 |
| 2135 | 257442.2 | 4085223.99 | 1.26E-04 | 1.83E-03 | 1.35E-03 | 1.35E-03 | 7.51E-04 | 1.92E-05 | 2.78E-04 | 2.10E-04 | 2.10E-04 | 1.16E-04 | 1.04E-05 | 1.51E-04 | 9.36E-05 | 9.36E-05 | 4.63E-05 |
| 2136 | 257432.55 | 4085203.05 | 1.20E-04 | 1.73E-03 | 1.28E-03 | 1.28E-03 | 7.11E-04 | 1.82E-05 | 2.64E-04 | 1.99E-04 | 1.99E-04 | 1.09E-04 | 9.86E-06 | 1.43E-04 | 8.86E-05 | 8.86E-05 | 4.38E-05 |
| 2137 | 257422.91 | 4085182.1 | 1.10E-04 | 1.59E-03 | 1.17E-03 | 1.17E-03 | 6.51E-04 | 1.66E-05 | 2.41E-04 | 1.82E-04 | 1.82E-04 | 1.00E-04 | 9.03E-06 | 1.31E-04 | 8.12E-05 | 8.12E-05 | 4.02E-05 |
| 2138 | 257569.8 | 4085305.45 | 1.53E-04 | 2.21E-03 | 1.63E-03 | 1.63E-03 | 9.08E-04 | 2.32E-05 | 3.37E-04 | 2.54E-04 | 2.54E-04 | 1.40E-04 | 1.26E-05 | 1.82E-04 | 1.13E-04 | 1.13E-04 | 5.60E-05 |
| 2139 | 257594.08 | 4085304.38 | 1.81E-04 | 2.32E-03 | 1.71E-03 | 1.71E-03 | 9.54E-04 | 2.44E-05 | 3.54E-04 | 2.67E-04 | 2.67E-04 | 1.47E-04 | 1.32E-05 | 1.91E-04 | 1.19E-04 | 1.19E-04 | 5.88E-05 |
| 2140 | 257618.36 | 4085303.3 | 1.67E-04 | 2.42E-03 | 1.78E-03 | 1.78E-03 | 9.93E-04 | 2.53E-05 | 3.68E-04 | 2.78E-04 | 2.78E-04 | 1.53E-04 | 1.38E-05 | 1.99E-04 | 1.24E-04 | 1.24E-04 | 6.12E-05 |
| 2141 | 257642.64 | 4085302.23 | 1.72E-04 | 2.49E-03 | 1.84E-03 | 1.84E-03 | 1.02E-03 | 2.62E-05 | 3.80E-04 | 2.87E-04 | 2.87E-04 | 1.58E-04 | 1.42E-05 | 2.06E-04 | 1.28E-04 | 1.28E-04 | 6.32E-05 |
| 2142 | 257666.92 | 4085301.15 | 1.77E-04 | 2.56E-03 | 1.89E-03 | 1.89E-03 | 1.05E-03 | 2.68E-05 | 3.90E-04 | 2.94E-04 | 2.94E-04 | 1.62E-04 | 1.48E-05 | 2.11E-04 | 1.31E-04 | 1.31E-04 | 6.48E-05 |
| 2143 | 257691.21 | 4085300.08 | 1.81E-04 | 2.61E-03 | 1.92E-03 | 1.92E-03 | 1.07E-03 | 2.74E-05 | 3.98E-04 | 3.00E-04 | 3.00E-04 | 1.65E-04 | 1.49E-05 | 2.15E-04 | 1.34E-04 | 1.34E-04 | 6.62E-05 |
| 2144 | 257715.49 | 4085299 | 1.83E-04 | 2.65E-03 | 1.96E-03 | 1.96E-03 | 1.09E-03 | 2.78E-05 | 4.04E-04 | 3.05E-04 | 3.05E-04 | 1.68E-04 | 1.51E-05 | 2.19E-04 | 1.36E-04 | 1.36E-04 | 6.72E-05 |
| 2145 | 257739.77 | 4085297.92 | 1.86E-04 | 2.68E-03 | 1.98E-03 | 1.98E-03 | 1.10E-03 | 2.82E-05 | 4.09E-04 | 3.09E-04 | 3.09E-04 | 1.70E-04 | 1.53E-05 | 2.21E-04 | 1.37E-04 | 1.37E-04 | 6.80E-05 |
| 2146 | 257764.05 | 4085296.85 | 1.87E-04 | 2.71E-03 | 1.99E-03 | 1.99E-03 | 1.11E-03 | 2.84E-05 | 4.12E-04 | 3.11E-04 | 3.11E-04 | 1.71E-04 | 1.54E-05 | 2.23E-04 | 1.39E-04 | 1.39E-04 | 6.86E-05 |
| 2147 | 257788.33 | 4085295.77 | 1.88E-04 | 2.72E-03 | 2.00E-03 | 2.00E-03 | 1.12E-03 | 2.85E-05 | 4.14E-04 | 3.13E-04 | 3.13E-04 | 1.72E-04 | 1.55E-05 | 2.24E-04 | 1.39E-04 | 1.39E-04 | 6.89E-05 |
| 2148 | 257812.62 | 4085294.7 | 1.88E-04 | 2.71E-03 | 2.00E-03 | 2.00E-03 | 1.12E-03 | 2.85E-05 | 4.13E-04 | 3.12E-04 | 3.12E-04 | 1.72E-04 | 1.55E-05 | 2.24E-04 | 1.39E-04 | 1.39E-04 | 6.88E-05 |
| 2149 | 257836.9 | 4085293.62 | 1.88E-04 | 2.71E-03 | 2.00E-03 | 2.00E-03 | 1.12E-03 | 2.85E-05 | 4.14E-04 | 3.12E-04 | 3.12E-04 | 1.72E-04 | 1.55E-05 | 2.24E-04 | 1.39E-04 | 1.39E-04 | 6.88E-05 |
| 2150 | 257861.18 | 4085292.55 | 1.87E-04 | 2.70E-03 | 1.99E-03 | 1.99E-03 | 1.11E-03 | 2.84E-05 | 4.12E-04 | 3.11E-04 | 3.11E-04 | 1.71E-04 | 1.54E-05 | 2.23E-04 | 1.38E-04 | 1.38E-04 | 6.85E-05 |
| 2151 | 257885.46 | 4085291.47 | 1.86E-04 | 2.69E-03 | 1.98E-03 | 1.98E-03 | 1.11E-03 | 2.83E-05 | 4.10E-04 | 3.10E-04 | 3.10E-04 | 1.70E-04 | 1.53E-05 | 2.22E-04 | 1.38E-04 | 1.38E-04 | 6.82E-05 |
| 2152 | 257909.74 | 4085290.4 | 1.85E-04 | 2.68E-03 | 1.97E-03 | 1.97E-03 | 1.10E-03 | 2.81E-05 | 4.08E-04 | 3.08E-04 | 3.08E-04 | 1.69E-04 | 1.53E-05 | 2.21E-04 | 1.37E-04 | 1.37E-04 | 6.78E-05 |
| 2153 | 257934.02 | 4085289.32 | 1.83E-04 | 2.65E-03 | 1.96E-03 | 1.96E-03 | 1.09E-03 | 2.78E-05 | 4.04E-04 | 3.05E-04 | 3.05E-04 | 1.68E-04 | 1.51E-05 | 2.19E-04 | 1.36E-04 | 1.36E-04 | 6.73E-05 |
| 2154 | 257958.31 | 4085288.25 | 1.81E-04 | 2.62E-03 | 1.93E-03 | 1.93E-03 | 1.08E-03 | 2.75E-05 | 4.00E-04 | 3.02E-04 | 3.02E-04 | 1.66E-04 | 1.50E-05 | 2.16E-04 | 1.34E-04 | 1.34E-04 | 6.65E-05 |
| 2155 | 257982.59 | 4085287.17 | 1.79E-04 | 2.59E-03 | 1.91E-03 | 1.91E-03 | 1.06E-03 | 2.72E-05 | 3.94E-04 | 2.98E-04 | 2.98E-04 | 1.64E-04 | 1.48E-05 | 2.13E-04 | 1.33E-04 | 1.33E-04 | 6.56E-05 |
| 2156 | 258006.87 | 4085286.09 | 1.76E-04 | 2.55E-03 | 1.88E-03 | 1.88E-03 | 1.05E-03 | 2.67E-05 | 3.88E-04 | 2.93E-04 | 2.93E-04 | 1.61E-04 | 1.45E-05 | 2.10E-04 | 1.30E-04 | 1.30E-04 | 6.45E-05 |
| 2157 | 258031.15 | 4085285.02 | 1.73E-04 | 2.50E-03 | 1.84E-03 | 1.84E-03 | 1.03E-03 | 2.62E-05 | 3.80E-04 | 2.87E-04 | 2.87E-04 | 1.58E-04 | 1.42E-05 | 2.06E-04 | 1.28E-04 | 1.28E-04 | 6.33E-05 |
| 2158 | 258055.43 | 4085283.94 | 1.69E-04 | 2.44E-03 | 1.80E-03 | 1.80E-03 | 1.00E-03 | 2.56E-05 | 3.71E-04 | 2.81E-04 | 2.81E-04 | 1.54E-04 | 1.39E-05 | 2.01E-04 | 1.25E-04 | 1.25E-04 | 6.18E-05 |
| 2159 | 258079.72 | 4085282.87 | 1.64E-04 | 2.37E-03 | 1.75E-03 | 1.75E-03 | 9.74E-04 | 2.49E-05 | 3.61E-04 | 2.73E-04 | 2.73E-04 | 1.50E-04 | 1.35E-05 | 1.95E-04 | 1.21E-04 | 1.21E-04 | 6.01E-05 |
| 2160 | 258104 | 4085281.79 | 1.59E-04 | 2.30E-03 | 1.69E-03 | 1.69E-03 | 9.43E-04 | 2.41E-05 | 3.50E-04 | 2.64E-04 | 2.64E-04 | 1.45E-04 | 1.31E-05 | 1.89E-04 | 1.18E-04 | 1.18E-04 | 5.82E-05 |
| 2161 | 258128.28 | 4085280.72 | 1.53E-04 | 2.21E-03 | 1.63E-03 | 1.63E-03 | 9.08E-04 | 2.32E-05 | 3.37E-04 | 2.54E-04 | 2.54E-04 | 1.40E-04 | 1.26E-05 | 1.82E-04 | 1.13E-04 | 1.13E-04 | 5.60E-05 |
| 2162 | 258152.56 | 4085279.64 | 1.46E-04 | 2.11E-03 | 1.56E-03 | 1.56E-03 | 8.69E-04 | 2.22E-05 | 3.22E-04 | 2.43E-04 | 2.43E-04 | 1.34E-04 | 1.20E-05 | 1.74E-04 | 1.08E-04 | 1.08E-04 | 5.36E-05 |
| 2163 | 258176.84 | 4085278.57 | 1.39E-04 | 2.01E-03 | 1.48E-03 | 1.48E-03 | 8.24E-04 | 2.10E-05 | 3.06E-04 | 2.31E-04 | 2.31E-04 | 1.27E-04 | 1.14E-05 | 1.65E-04 | 1.03E-04 | 1.03E-04 | 5.08E-05 |
| 2164 | 258201.12 | 4085277.49 | 1.30E-04 | 1.89E-03 | 1.39E-03 | 1.39E-03 | 7.75E-04 | 1.98E-05 | 2.87E-04 | 2.17E-04 | 2.17E-04 | 1.19E-04 | 1.08E-05 | 1.56E-04 | 9.66E-05 | 9.66E-05 | 4.78E-05 |
| 2165 | 258225.41 | 4085276.42 | 1.21E-04 | 1.76E-03 | 1.29E-03 | 1.29E-03 | 7.22E-04 | 1.84E-05 | 2.68E-04 | 2.02E-04 | 2.02E-04 | 1.11E-04 | 1.00E-05 | 1.45E-04 | 8.99E-05 | 8.99E-05 | 4.45E-05 |
| 2166 | 258249.69 | 4085275.34 | 1.12E-04 | 1.62E-03 | 1.19E-03 | 1.19E-03 | 6.65E-04 | 1.70E-05 | 2.47E-04 | 1.86E-04 | 1.86E-04 | 1.02E-04 | 9.22E-06 | 1.33E-04 | 8.28E-05 | 8.28E-05 | 4.10E-05 |
| 2167 | 258273.97 | 4085274.26 | 1.02E-04 | 1.48E-03 | 1.09E-03 | 1.09E-03 | 6.06E-04 | 1.55E-05 | 2.25E-04 | 1.70E-04 | 1.70E-04 | 9.33E-05 | 8.41E-06 | 1.22E-04 | 7.55E-05 | 7.55E-05 | 3.74E-05 |
| 2168 | 258298.25 | 4085273.19 | 9.21E-05 | 1.33E-03 | 9.82E-04 | 9.82E-04 | 5.47E-04 | 1.40E-05 | 2.03E-04 | 1.53E-04 | 1.53E-04 | 8.43E-05 | 7.59E-06 | 1.10E-04 | 6.82E-05 | 6.82E-05 | 3.38E-05 |
| 2169 | 258322.53 | 4085272.11 | 8.24E-05 | 1.19E-03 | 8.78E-04 | 8.78E-04 | 4.90E-04 | 1.25E-05 | 1.82E-04 | 1.37E-04 | 1.37E-04 | 7.54E-05 | 6.79E-06 | 9.82E-05 | 6.10E-05 | 6.10E-05 | 3.02E-05 |
| 2170 | 258346.82 | 4085271.04 | 7.31E-05 | 1.06E-03 | 7.80E-04 | 7.80E-04 | 4.35E-04 | 1.11E-05 | 1.61E-04 | 1.22E-04 | 1.22E-04 | 6.69E-05 | 6.03E-06 | 8.72E-05 | 5.42E-05 | 5.42E-05 | 2.68E-05 |
| 2171 | 258371.1 | 4085269.96 | 6.47E-05 | 9.36E-04 | 6.90E-04 | 6.90E-04 | 3.85E-04 | 9.82E-06 | 1.43E-04 | 1.08E-04 | 1.08E-04 | 5.92E-05 | 5.33E-06 | 7.71E-05 | 4.79E-05 | 4.79E-05 | 2.37E-05 |
| 2172 | 257551.38 | 4085347.87 | 1.18E-04 | 1.71E-03 | 1.26E-03 | 1.26E-03 | 7.02E-04 | 1.79E-05 | 2.60E-04 | 1.96E-04 | 1.96E-04 | 1.08E-04 | 9.73E-06 | 1.41E-04 | 8.74E-05 | 8.74E-05 | 4.33E-05 |
| 2173 | 257510.12 | 4085332.8 | 1.16E-04 | 1.67E-03 | 1.23E-03 | 1.23E-03 | 6.87E-04 | 1.75E-05 | 2.55E-04 | 1.92E-04 | 1.92E-04 | 1.08E-04 | 9.53E-06 | 1.38E-04 | 8.56E-05 | 8.56E-05 | 4.24E-05 |
| 2174 | 257468.86 | 4085317.72 | 1.09E-04 | 1.57E-03 | 1.16E-03 | 1.16E-03 | 6.47E-04 | 1.65E-05 | 2.40E-04 | 1.81E-04 | 1.81E-04 | 9.98E-05 | 8.97E-06 | 1.30E-04 | 8.06E-05 | 8.06E-05 | 3.99E-05 |
| 2175 | 257418.42 | 4085282.7 | 9.83E-05 | 1.42E-03 | 1.05E-03 | 1.05E-03 | 5.84E-04 | 1.49E-05 | 2.17E-04 | 1.64E-04 | 1.64E-04 | 8.99E-05 | 8.10E-06 | 1.17E-04 | 7.28E-05 | 7.28E-05 | 3.60E-05 |
| 2176 | 257400.04 | 4085242.8 | 9.41E-05 | 1.36E-03 | 1.00E-03 | 1.00E-03 | 5.59E-04 | 1.43E-05 | 2.07E-04 | 1.57E-04 | 1.57E-04 | 8.61E-05 | 7.76E-06 | 1.12E-04 | 6.97E-05 | 6.97E-05 | 3.45E-05 |
| 2177 | 257381.67 | 4085202.9 | 8.19E-05 | 1.18E-03 | 8.73E-04 | 8.73E-04 | 4.87E-04 | 1.24E-05 | 1.80E-04 | 1.36E-04 | 1.36E-04 | 7.49E-05 | 6.75E-06 | 9.76E-05 | 6.06E-05 | 6.06E-05 | 3.00E-05 |
| 2178 | 257596.29 | 4085354.33 | 1.22E-04 | 1.77E-03 | 1.30E-03 | 1.30E-03 | 7.27E-04 | 1.86E-05 | 2.70E-04 | 2.04E-04 | 2.04E-04 | 1.12E-04 | 1.01E-05 | 1.46E-04 | 9.06E-05 | 9.06E-05 | 4.49E-05 |
| 2179 | 257620.57 | 4085353.25 | 1.26E-04 | 1.82E-03 | 1.35E-03 | 1.35E-03 | 7.50E-04 | 1.91E-05 | 2.78E-04 | 2.10E-04 | 2.10E-04 | 1.15E-04 | 1.04E-05 | 1.50E-04 | 9.34E-05 | 9.34E-05 | 4.62E-05 |
| 2180 | 257644.85 | 4085352.18 | 1.29E-04 | 1.87E-03 | 1.38E-03 | 1.38E-03 | 7.68E-04 | 1.96E-05 | 2.85E-04 | 2.15E-04 | 2.15E-04 | 1.18E-04 | 1.07E-05 | 1.54E-04 | 9.57E-05 | 9.57E-05 | 4.74E-05 |
| 2181 | 257669.14 | 4085351.1 | 1.32E-04 | 1.91E-03 | 1.41E-03 | 1.41E-03 | 7.84E-04 | 2.00E-05 | 2.91E-04 | 2.20E-04 | 2.20E-04 | 1.21E-04 | 1.09E-05 | 1.57E-04 | 9.77E-05 | 9.77E-05 | 4.84E-05 |
| 2182 | 257693.42 | 4085350.03 | 1.34E-04 | 1.94E-03 | 1.43E-03 | 1.43E-03 | 7.97E-04 | 2.03E-05 | 2.95E-04 | 2.23E-04 | 2.23E-04 | 1.23E-04 | 1.10E-05 | 1.60E-04 | 9.93E-05 | 9.93E-05 | 4.91E-05 |
| 2183 | 257717.7 | 4085348.95 | 1.36E-04 | 1.96E-03 | 1.45E-03 | 1.45E-03 | 8.07E-04 | 2.06E-05 | 2.99E-04 | 2.28E-04 | 2.26E-04 | 1.24E-04 | 1.12E-05 | 1.62E-04 | 1.01E-04 | 1.01E-04 | 4.98E-05 |
| 2184 | 257741.98 | 4085347.88 | 1.37E-04 | 1.98E-03 | 1.46E-03 | 1.46E-03 | 8.12E-04 | 2.07E-05 | 3.01E-04 | 2.27E-04 | 2.27E-04 | 1.25E-04 | 1.13E-05 | 1.63E-04 | 1.01E-04 | 1.01E-04 | 5.01E-05 |
| 2185 | 257766.26 | 4085346.8 | 1.37E-04 | 1.98E-03 | 1.48E-03 | 1.46E-03 | 8.13E-04 | 2.08E-05 | 3.01E-04 | 2.28E-04 | 2.28E-04 | 1.25E-04 | 1.13E-05 | 1.63E-04 | 1.01E-04 | 1.01E-04 | 5.01E-05 |
| 2186 | 257790.55 | 4085345.73 | 1.37E-04 | 1.98E-03 | 1.46E-03 | 1.46E-03 | 8.14E-04 | 2.08E-05 | 3.02E-04 | 2.28E-04 | 2.28E-04 | 1.25E-04 | 1.13E-05 | 1.63E-04 | 1.01E-04 | 1.01E-04 | 5.02E-05 |
| 2187 | 257814.83 | 4085344.65 | 1.37E-04 | 1.98E-03 | 1.46E-03 | 1.46E-03 | 8.14E-04 | 2.08E-05 | 3.02E-04 | 2.28E-04 | 2.28E-04 | 1.25E-04 | 1.13E-05 | 1.63E-04 | 1.01E-04 | 1.01E-04 | 5.02E-05 |
| 2188 | 257839.11 | 4085343.57 | 1.37E-04 | 1.98E-03 | 1.46E-03 | 1.46E-03 | 8.12E-04 | 2.07E-05 | 3.01E-04 | 2.27E-04 | 2.27E-04 | 1.25E-04 | 1.13E-05 | 1.63E-04 | 1.01E-04 | 1.01E-04 | 5.01E-05 |
| 2189 | 257863.39 | 4085342.5 | 1.36E-04 | 1.96E-03 | 1.45E-03 | 1.45E-03 | 8.07E-04 | 2.06E-05 | 2.99E-04 | 2.26E-04 | 2.26E-04 | 1.24E-04 | 1.12E-05 | 1.62E-04 | 1.01E-04 | 1.01E-04 | 4.98E-05 |
| 2190 | 257887.67 | 4085341.42 | 1.35E-04 | 1.95E-03 | 1.44E-03 | 1.44E-03 | 8.01E-04 | 2.04E-05 | 2.97E-04 | 2.24E-04 | 2.24E-04 | 1.23E-04 | 1.11E-05 | 1.61E-04 | 9.98E-05 | 9.98E-05 | 4.94E-05 |
| 2191 | 257911.95 | 4085340.35 | 1.33E-04 | 1.93E-03 | 1.42E-03 | 1.42E-03 | 7.92E-04 | 2.02E-05 | 2.94E-04 | 2.22E-04 | 2.22E-04 | 1.22E-04 | 1.10E-05 | 1.59E-04 | 9.87E-05 | 9.87E-05 | 4.89E-05 |
| 2192 | 257936.24 | 4085339.27 | 1.32E-04 | 1.90E-03 | 1.40E-03 | 1.40E-03 | 7.82E-04 | 2.00E-05 | 2.90E-04 | 2.19E-04 | 2.19E-04 | 1.20E-04 | 1.08E-05 | 1.57E-04 | 9.74E-05 | 9.74E-05 | 4.82E-05 |
| 2193 | 257960.52 | 4085338.2 | 1.30E-04 | 1.87E-03 | 1.38E-03 | 1.38E-03 | 7.70E-04 | 1.97E-05 | 2.85E-04 | 2.16E-04 | 2.16E-04 | 1.19E-04 | 1.07E-05 | 1.54E-04 | 9.59E-05 | 9.59E-05 | 4.75E-05 |
| 2194 | 257984.8 | 4085337.12 | 1.27E-04 | 1.84E-03 | 1.36E-03 | 1.36E-03 | 7.56E-04 | 1.93E-05 | 2.80E-04 | 2.12E-04 | 2.12E-04 | 1.16E-04 | 1.05E-05 | 1.52E-04 | 9.42E-05 | 9.42E-05 | 4.66E-05 |
| 2195 | 258009.08 | 4085336.05 | 1.24E-04 | 1.80E-03 | 1.33E-03 | 1.33E-03 | 7.40E-04 | 1.89E-05 | 2.74E-04 | 2.07E-04 | 2.07E-04 | 1.14E-04 | 1.03E-05 | 1.48E-04 | 9.22E-05 | 9.22E-05 | 4.56E-05 |
| 2196 | 258033.36 | 4085334.97 | 1.21E-04 | 1.76E-03 | 1.29E-03 | 1.29E-03 | 7.22E-04 | 1.84E-05 | 2.68E-04 | 2.02E-04 | 2.02E-04 | 1.11E-04 | 1.00E-05 | 1.45E-04 | 8.99E-05 | 8.99E-05 | 4.45E-05 |
| 2197 | 258057.65 | 4085333.9 | 1.18E-04 | 1.71E-03 | 1.26E-03 | 1.26E-03 | 7.02E-04 | 1.79E-05 | 2.60E-04 | 1.97E-04 | 1.97E-04 | 1.08E-04 | 9.73E-06 | 1.41E-04 | 8.74E-05 | 8.74E-05 | 4.33E-05 |
| 2198 | 258081.93 | 4085332.82 | 1.14E-04 | 1

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1992 | 257564.27 | 4085180.68 | 4.57E-04 | 6.61E-03 | 4.87E-03 | 4.87E-03 | 2.72E-03 | 6.94E-05 | 1.01E-03 | 7.61E-04 | 7.61E-04 | 4.18E-04 | 3.77E-05 | 5.45E-04 | 3.38E-04 | 3.38E-04 | 1.68E-04 |
| 1993 | 257588.55 | 4085179.5 | 5.39E-04 | 7.79E-03 | 5.75E-03 | 5.75E-03 | 3.20E-03 | 8.18E-05 | 1.19E-03 | 8.97E-04 | 8.97E-04 | 4.93E-04 | 4.44E-05 | 6.43E-04 | 3.99E-04 | 3.99E-04 | 1.98E-04 |
| 1994 | 257612.83 | 4085178.42 | 5.88E-04 | 8.50E-03 | 6.26E-03 | 6.26E-03 | 3.49E-03 | 8.92E-05 | 1.29E-03 | 9.78E-04 | 9.78E-04 | 5.38E-04 | 4.84E-05 | 7.01E-04 | 4.35E-04 | 4.35E-04 | 2.15E-04 |
| 1995 | 257637.11 | 4085177.35 | 6.18E-04 | 8.93E-03 | 6.58E-03 | 6.58E-03 | 3.67E-03 | 9.37E-05 | 1.36E-03 | 1.03E-03 | 1.03E-03 | 5.65E-04 | 5.09E-05 | 7.36E-04 | 4.57E-04 | 4.57E-04 | 2.26E-04 |
| 1996 | 257661.39 | 4085176.27 | 6.38E-04 | 9.22E-03 | 6.80E-03 | 6.80E-03 | 3.79E-03 | 9.68E-05 | 1.41E-03 | 1.06E-03 | 1.06E-03 | 5.84E-04 | 5.26E-05 | 7.60E-04 | 4.72E-04 | 4.72E-04 | 2.34E-04 |
| 1997 | 257685.68 | 4085175.2 | 6.52E-04 | 9.43E-03 | 6.95E-03 | 6.95E-03 | 3.88E-03 | 9.90E-05 | 1.44E-03 | 1.09E-03 | 1.09E-03 | 5.97E-04 | 5.37E-05 | 7.77E-04 | 4.83E-04 | 4.83E-04 | 2.39E-04 |
| 1998 | 257709.96 | 4085174.12 | 6.63E-04 | 9.58E-03 | 7.06E-03 | 7.06E-03 | 3.94E-03 | 1.01E-04 | 1.46E-03 | 1.10E-03 | 1.10E-03 | 6.06E-04 | 5.46E-05 | 7.90E-04 | 4.91E-04 | 4.91E-04 | 2.43E-04 |
| 1999 | 257734.24 | 4085173.05 | 6.70E-04 | 9.69E-03 | 7.14E-03 | 7.14E-03 | 3.98E-03 | 1.02E-04 | 1.48E-03 | 1.12E-03 | 1.12E-03 | 6.13E-04 | 5.52E-05 | 7.99E-04 | 4.96E-04 | 4.96E-04 | 2.46E-04 |
| 2000 | 257758.52 | 4085171.97 | 6.76E-04 | 9.78E-03 | 7.21E-03 | 7.21E-03 | 4.02E-03 | 1.03E-04 | 1.49E-03 | 1.13E-03 | 1.13E-03 | 6.19E-04 | 5.57E-05 | 8.06E-04 | 5.01E-04 | 5.01E-04 | 2.48E-04 |
| 2001 | 257782.8 | 4085170.9 | 6.80E-04 | 9.84E-03 | 7.25E-03 | 7.25E-03 | 4.04E-03 | 1.03E-04 | 1.50E-03 | 1.13E-03 | 1.13E-03 | 6.22E-04 | 5.61E-05 | 8.11E-04 | 5.04E-04 | 5.04E-04 | 2.49E-04 |
| 2002 | 257807.08 | 4085169.82 | 6.83E-04 | 9.88E-03 | 7.28E-03 | 7.28E-03 | 4.06E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.25E-04 | 5.63E-05 | 8.14E-04 | 5.06E-04 | 5.06E-04 | 2.50E-04 |
| 2003 | 257831.37 | 4085168.75 | 6.85E-04 | 9.91E-03 | 7.30E-03 | 7.30E-03 | 4.07E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.27E-04 | 5.65E-05 | 8.17E-04 | 5.07E-04 | 5.07E-04 | 2.51E-04 |
| 2004 | 257855.65 | 4085167.67 | 6.86E-04 | 9.93E-03 | 7.32E-03 | 7.32E-03 | 4.08E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.28E-04 | 5.66E-05 | 8.18E-04 | 5.08E-04 | 5.08E-04 | 2.52E-04 |
| 2005 | 257879.93 | 4085166.59 | 6.87E-04 | 9.94E-03 | 7.32E-03 | 7.32E-03 | 4.08E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.29E-04 | 5.66E-05 | 8.19E-04 | 5.09E-04 | 5.09E-04 | 2.52E-04 |
| 2006 | 257904.21 | 4085165.52 | 6.87E-04 | 9.93E-03 | 7.32E-03 | 7.32E-03 | 4.08E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.29E-04 | 5.66E-05 | 8.19E-04 | 5.09E-04 | 5.09E-04 | 2.52E-04 |
| 2007 | 257928.49 | 4085164.44 | 6.86E-04 | 9.93E-03 | 7.32E-03 | 7.32E-03 | 4.08E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.28E-04 | 5.66E-05 | 8.18E-04 | 5.08E-04 | 5.08E-04 | 2.52E-04 |
| 2008 | 257952.78 | 4085163.37 | 6.85E-04 | 9.91E-03 | 7.30E-03 | 7.30E-03 | 4.07E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.27E-04 | 5.65E-05 | 8.17E-04 | 5.07E-04 | 5.07E-04 | 2.51E-04 |
| 2009 | 257977.06 | 4085162.29 | 6.83E-04 | 9.88E-03 | 7.28E-03 | 7.28E-03 | 4.06E-03 | 1.04E-04 | 1.50E-03 | 1.14E-03 | 1.14E-03 | 6.25E-04 | 5.63E-05 | 8.14E-04 | 5.06E-04 | 5.06E-04 | 2.50E-04 |
| 2010 | 258001.34 | 4085161.22 | 6.80E-04 | 9.84E-03 | 7.25E-03 | 7.25E-03 | 4.04E-03 | 1.03E-04 | 1.50E-03 | 1.13E-03 | 1.13E-03 | 6.23E-04 | 5.61E-05 | 8.11E-04 | 5.04E-04 | 5.04E-04 | 2.49E-04 |
| 2011 | 258025.62 | 4085160.14 | 6.77E-04 | 9.79E-03 | 7.22E-03 | 7.22E-03 | 4.02E-03 | 1.03E-04 | 1.49E-03 | 1.13E-03 | 1.13E-03 | 6.20E-04 | 5.58E-05 | 8.07E-04 | 5.01E-04 | 5.01E-04 | 2.48E-04 |
| 2012 | 258049.9 | 4085159.07 | 6.73E-04 | 9.74E-03 | 7.18E-03 | 7.18E-03 | 4.00E-03 | 1.02E-04 | 1.48E-03 | 1.12E-03 | 1.12E-03 | 6.16E-04 | 5.55E-05 | 8.03E-04 | 4.98E-04 | 4.98E-04 | 2.47E-04 |
| 2013 | 258074.18 | 4085157.99 | 6.68E-04 | 9.66E-03 | 7.12E-03 | 7.12E-03 | 3.97E-03 | 1.01E-04 | 1.47E-03 | 1.11E-03 | 1.11E-03 | 6.11E-04 | 5.50E-05 | 7.96E-04 | 4.95E-04 | 4.95E-04 | 2.45E-04 |
| 2014 | 258098.47 | 4085156.92 | 6.50E-04 | 9.41E-03 | 6.93E-03 | 6.93E-03 | 3.87E-03 | 9.87E-05 | 1.43E-03 | 1.08E-03 | 1.08E-03 | 5.95E-04 | 5.36E-05 | 7.75E-04 | 4.82E-04 | 4.82E-04 | 2.38E-04 |
| 2015 | 258122.75 | 4085155.84 | 6.42E-04 | 9.28E-03 | 6.84E-03 | 6.84E-03 | 3.81E-03 | 9.74E-05 | 1.41E-03 | 1.07E-03 | 1.07E-03 | 5.87E-04 | 5.29E-05 | 7.65E-04 | 4.75E-04 | 4.75E-04 | 2.35E-04 |
| 2016 | 258147.03 | 4085154.76 | 6.32E-04 | 9.14E-03 | 6.73E-03 | 6.73E-03 | 3.75E-03 | 9.59E-05 | 1.39E-03 | 1.05E-03 | 1.05E-03 | 5.78E-04 | 5.21E-05 | 7.53E-04 | 4.68E-04 | 4.68E-04 | 2.32E-04 |
| 2017 | 258171.31 | 4085153.69 | 6.19E-04 | 8.96E-03 | 6.60E-03 | 6.60E-03 | 3.68E-03 | 9.40E-05 | 1.36E-03 | 1.03E-03 | 1.03E-03 | 5.67E-04 | 5.10E-05 | 7.38E-04 | 4.59E-04 | 4.59E-04 | 2.27E-04 |
| 2018 | 258195.59 | 4085152.61 | 6.03E-04 | 8.72E-03 | 6.43E-03 | 6.43E-03 | 3.58E-03 | 9.15E-05 | 1.33E-03 | 1.00E-03 | 1.00E-03 | 5.52E-04 | 4.97E-05 | 7.19E-04 | 4.47E-04 | 4.47E-04 | 2.21E-04 |
| 2019 | 258219.88 | 4085151.54 | 5.82E-04 | 8.42E-03 | 6.20E-03 | 6.20E-03 | 3.46E-03 | 8.83E-05 | 1.28E-03 | 9.69E-04 | 9.69E-04 | 5.33E-04 | 4.80E-05 | 6.94E-04 | 4.31E-04 | 4.31E-04 | 2.13E-04 |
| 2020 | 258244.16 | 4085150.46 | 5.55E-04 | 8.02E-03 | 5.91E-03 | 5.91E-03 | 3.30E-03 | 8.42E-05 | 1.22E-03 | 9.23E-04 | 9.23E-04 | 5.08E-04 | 4.57E-05 | 6.61E-04 | 4.11E-04 | 4.11E-04 | 2.03E-04 |
| 2021 | 258268.44 | 4085149.39 | 5.18E-04 | 7.50E-03 | 5.52E-03 | 5.52E-03 | 3.08E-03 | 7.86E-05 | 1.14E-03 | 8.63E-04 | 8.63E-04 | 4.74E-04 | 4.27E-05 | 6.18E-04 | 3.84E-04 | 3.84E-04 | 1.90E-04 |
| 2022 | 258292.72 | 4085148.31 | 4.68E-04 | 6.78E-03 | 4.99E-03 | 4.99E-03 | 2.78E-03 | 7.11E-05 | 1.03E-03 | 7.80E-04 | 7.80E-04 | 4.29E-04 | 3.86E-05 | 5.59E-04 | 3.47E-04 | 3.47E-04 | 1.72E-04 |
| 2023 | 258317 | 4085147.24 | 4.00E-04 | 5.79E-03 | 4.26E-03 | 4.26E-03 | 2.38E-03 | 6.07E-05 | 8.81E-04 | 6.66E-04 | 6.66E-04 | 3.66E-04 | 3.30E-05 | 4.77E-04 | 2.96E-04 | 2.96E-04 | 1.47E-04 |
| 2024 | 258341.28 | 4085146.16 | 3.11E-04 | 4.51E-03 | 3.32E-03 | 3.32E-03 | 1.85E-03 | 4.73E-05 | 6.86E-04 | 5.18E-04 | 5.18E-04 | 2.85E-04 | 2.57E-05 | 3.71E-04 | 2.31E-04 | 2.31E-04 | 1.14E-04 |
| 2025 | 258365.57 | 4085145.09 | 2.24E-04 | 3.24E-03 | 2.39E-03 | 2.39E-03 | 1.33E-03 | 3.40E-05 | 4.94E-04 | 3.73E-04 | 3.73E-04 | 2.05E-04 | 1.85E-05 | 2.67E-04 | 1.66E-04 | 1.66E-04 | 8.22E-05 |
| 2026 | 257547.32 | 4085198.96 | 3.17E-04 | 4.58E-03 | 3.37E-03 | 3.37E-03 | 1.88E-03 | 4.80E-05 | 6.97E-04 | 5.27E-04 | 5.27E-04 | 2.90E-04 | 2.61E-05 | 3.77E-04 | 2.34E-04 | 2.34E-04 | 1.16E-04 |
| 2027 | 257589.65 | 4085204.48 | 3.68E-04 | 5.32E-03 | 3.92E-03 | 3.92E-03 | 2.19E-03 | 5.59E-05 | 8.11E-04 | 6.13E-04 | 6.13E-04 | 3.37E-04 | 3.03E-05 | 4.39E-04 | 2.73E-04 | 2.73E-04 | 1.35E-04 |
| 2028 | 257613.94 | 4085203.4 | 3.96E-04 | 5.72E-03 | 4.22E-03 | 4.22E-03 | 2.35E-03 | 6.00E-05 | 8.71E-04 | 6.58E-04 | 6.58E-04 | 3.62E-04 | 3.26E-05 | 4.72E-04 | 2.93E-04 | 2.93E-04 | 1.45E-04 |
| 2029 | 257638.22 | 4085202.32 | 4.15E-04 | 6.00E-03 | 4.42E-03 | 4.42E-03 | 2.47E-03 | 6.30E-05 | 9.14E-04 | 6.90E-04 | 6.90E-04 | 3.80E-04 | 3.42E-05 | 4.95E-04 | 3.07E-04 | 3.07E-04 | 1.52E-04 |
| 2030 | 257662.5 | 4085201.25 | 4.29E-04 | 6.20E-03 | 4.57E-03 | 4.57E-03 | 2.55E-03 | 6.51E-05 | 9.44E-04 | 7.13E-04 | 7.13E-04 | 3.92E-04 | 3.53E-05 | 5.11E-04 | 3.17E-04 | 3.17E-04 | 1.57E-04 |
| 2031 | 257686.78 | 4085200.17 | 4.39E-04 | 6.35E-03 | 4.68E-03 | 4.68E-03 | 2.61E-03 | 6.66E-05 | 9.67E-04 | 7.31E-04 | 7.31E-04 | 4.02E-04 | 3.62E-05 | 5.23E-04 | 3.25E-04 | 3.25E-04 | 1.61E-04 |
| 2032 | 257711.06 | 4085199.1 | 4.47E-04 | 6.46E-03 | 4.76E-03 | 4.76E-03 | 2.66E-03 | 6.78E-05 | 9.85E-04 | 7.44E-04 | 7.44E-04 | 4.09E-04 | 3.68E-05 | 5.33E-04 | 3.31E-04 | 3.31E-04 | 1.64E-04 |
| 2033 | 257735.35 | 4085198.02 | 4.53E-04 | 6.55E-03 | 4.83E-03 | 4.83E-03 | 2.69E-03 | 6.87E-05 | 9.98E-04 | 7.54E-04 | 7.54E-04 | 4.14E-04 | 3.73E-05 | 5.40E-04 | 3.35E-04 | 3.35E-04 | 1.66E-04 |
| 2034 | 257759.63 | 4085196.95 | 4.58E-04 | 6.62E-03 | 4.88E-03 | 4.88E-03 | 2.72E-03 | 6.94E-05 | 1.01E-03 | 7.62E-04 | 7.62E-04 | 4.19E-04 | 3.77E-05 | 5.45E-04 | 3.39E-04 | 3.39E-04 | 1.68E-04 |
| 2035 | 257783.91 | 4085195.87 | 4.61E-04 | 6.67E-03 | 4.92E-03 | 4.92E-03 | 2.74E-03 | 7.00E-05 | 1.02E-03 | 7.68E-04 | 7.68E-04 | 4.22E-04 | 3.80E-05 | 5.50E-04 | 3.41E-04 | 3.41E-04 | 1.69E-04 |
| 2036 | 257808.19 | 4085194.8 | 4.64E-04 | 6.71E-03 | 4.94E-03 | 4.94E-03 | 2.76E-03 | 7.04E-05 | 1.02E-03 | 7.72E-04 | 7.72E-04 | 4.24E-04 | 3.82E-05 | 5.53E-04 | 3.43E-04 | 3.43E-04 | 1.70E-04 |
| 2037 | 257832.47 | 4085193.72 | 4.66E-04 | 6.74E-03 | 4.96E-03 | 4.96E-03 | 2.77E-03 | 7.07E-05 | 1.03E-03 | 7.75E-04 | 7.75E-04 | 4.26E-04 | 3.84E-05 | 5.55E-04 | 3.45E-04 | 3.45E-04 | 1.71E-04 |
| 2038 | 257856.75 | 4085192.65 | 4.67E-04 | 6.75E-03 | 4.98E-03 | 4.98E-03 | 2.77E-03 | 7.09E-05 | 1.03E-03 | 7.77E-04 | 7.77E-04 | 4.27E-04 | 3.85E-05 | 5.57E-04 | 3.46E-04 | 3.46E-04 | 1.71E-04 |
| 2039 | 257881.04 | 4085191.57 | 4.67E-04 | 6.76E-03 | 4.98E-03 | 4.98E-03 | 2.78E-03 | 7.09E-05 | 1.03E-03 | 7.78E-04 | 7.78E-04 | 4.28E-04 | 3.85E-05 | 5.57E-04 | 3.46E-04 | 3.46E-04 | 1.71E-04 |
| 2040 | 257905.32 | 4085190.49 | 4.67E-04 | 6.76E-03 | 4.98E-03 | 4.98E-03 | 2.78E-03 | 7.10E-05 | 1.03E-03 | 7.78E-04 | 7.78E-04 | 4.28E-04 | 3.85E-05 | 5.57E-04 | 3.46E-04 | 3.46E-04 | 1.71E-04 |
| 2041 | 257929.6 | 4085189.42 | 4.67E-04 | 6.75E-03 | 4.98E-03 | 4.98E-03 | 2.77E-03 | 7.08E-05 | 1.03E-03 | 7.77E-04 | 7.77E-04 | 4.27E-04 | 3.85E-05 | 5.57E-04 | 3.46E-04 | 3.46E-04 | 1.71E-04 |
| 2042 | 257953.88 | 4085188.34 | 4.66E-04 | 6.73E-03 | 4.96E-03 | 4.96E-03 | 2.77E-03 | 7.07E-05 | 1.03E-03 | 7.75E-04 | 7.75E-04 | 4.26E-04 | 3.84E-05 | 5.55E-04 | 3.45E-04 | 3.45E-04 | 1.71E-04 |
| 2043 | 257978.16 | 4085187.27 | 4.58E-04 | 6.62E-03 | 4.88E-03 | 4.88E-03 | 2.72E-03 | 6.95E-05 | 1.01E-03 | 7.62E-04 | 7.62E-04 | 4.19E-04 | 3.78E-05 | 5.46E-04 | 3.39E-04 | 3.39E-04 | 1.68E-04 |
| 2044 | 258002.45 | 4085186.19 | 4.55E-04 | 6.59E-03 | 4.85E-03 | 4.85E-03 | 2.71E-03 | 6.91E-05 | 1.00E-03 | 7.58E-04 | 7.58E-04 | 4.17E-04 | 3.75E-05 | 5.43E-04 | 3.37E-04 | 3.37E-04 | 1.67E-04 |
| 2045 | 258026.73 | 4085185.12 | 4.52E-04 | 6.54E-03 | 4.82E-03 | 4.82E-03 | 2.69E-03 | 6.86E-05 | 9.96E-04 | 7.53E-04 | 7.53E-04 | 4.14E-04 | 3.73E-05 | 5.39E-04 | 3.35E-04 | 3.35E-04 | 1.66E-04 |
| 2046 | 258051.01 | 4085184.04 | 4.48E-04 | 6.48E-03 | 4.78E-03 | 4.78E-03 | 2.66E-03 | 6.80E-05 | 9.87E-04 | 7.46E-04 | 7.46E-04 | 4.10E-04 | 3.69E-05 | 5.34E-04 | 3.32E-04 | 3.32E-04 | 1.64E-04 |
| 2047 | 258075.29 | 4085182.97 | 4.43E-04 | 6.40E-03 | 4.72E-03 | 4.72E-03 | 2.63E-03 | 6.72E-05 | 9.75E-04 | 7.37E-04 | 7.37E-04 | 4.05E-04 | 3.65E-05 | 5.28E-04 | 3.28E-04 | 3.28E-04 | 1.62E-04 |
| 2048 | 258099.57 | 4085181.89 | 4.36E-04 | 6.31E-03 | 4.65E-03 | 4.65E-03 | 2.59E-03 | 6.62E-05 | 9.61E-04 | 7.26E-04 | 7.26E-04 | 3.99E-04 | 3.60E-05 | 5.20E-04 | 3.23E-04 | 3.23E-04 | 1.60E-04 |
| 2049 | 258123.85 | 4085180.82 | 4.28E-04 | 6.19E-03 | 4.56E-03 | 4.56E-03 | 2.54E-03 | 6.50E-05 | 9.44E-04 | 7.13E-04 | 7.13E-04 | 3.92E-04 | 3.53E-05 | 5.11E-04 | 3.17E-04 | 3.17E-04 | 1.57E-04 |
| 2050 | 258148.14 | 4085179.74 | 4.18E-04 | 6.05E-03 | 4.46E-03 | 4.46E-03 | 2.49E-03 | 6.35E-05 | 9.22E-04 | 6.96E-04 | 6.96E-04 | 3.83E-04 | 3.45E-05 | 4.99E-04 | 3.10E-04 | 3.10E-04 | 1.53E-04 |
| 2051 | 258172.42 | 4085178.66 | 4.06E-04 | 5.88E-03 | 4.33E-03 | 4.33E-03 | 2.41E-03 | 6.16E-05 | 8.95E-04 | 6.76E-04 | 6.76E-04 | 3.72E-04 | 3.35E-05 | 4.84E-04 | 3.01E-04 | 3.01E-04 | 1.49E-04 |
| 2052 | 258196.7 | 4085177.59 | 3.91E-04 | 5.66E-03 | 4.17E-03 | 4.17E-03 | 2.32E-03 | 5.93E-05 | 8.62E-04 | 6.51E-04 | 6.51E-04 | 3.58E-04 | 3.22E-05 | 4.66E-04 | 2.90E-04 | 2.90E-04 | 1.43E-04 |
| 2053 | 258220.98 | 4085176.51 | 3.72E-04 | 5.38E-03 | 3.97E-03 | 3.97E-03 | 2.21E-03 | 5.65E-05 | 8.20E-04 | 6.19E-04 | 6.19E-04 | 3.41E-04 | 3.07E-05 | 4.44E-04 | 2.76E-04 | 2.76E-04 | 1.36E-04 |
| 2054 | 258245.26 | 4085175.44 | 3.48E-04 | 5.04E-03 | 3.71E-03 | 3.71E-03 | 2.07E-03 | 5.29E-05 | 7.68E-04 | 5.80E-04 | 5.80E-04 | 3.19E-04 | 2.87E-05 | 4.15E-04 | 2.58E-04 | 2.58E-04 | 1.28E-04 |
| 2055 | 258269.55 | 4085174.36 | 3.19E-04 | 4.61E-03 | 3.40E-03 | 3.40E-03 | 1.90E-03 | 4.84E-05 | 7.03E-04 | 5.31E-04 | 5.31E-04 | 2.92E-04 | 2.63E-05 | 3.80E-04 | 2.36E-04 | 2.36E-04 | 1.17E-04 |
| 2056 | 258293.83 | 4085173.29 | 2.83E-04 | 4.09E-03 | 3.02E-03 | 3.02E-03 | 1.68E-03 | 4.29E-05 | 6.23E-04 | 4.71E-04 | 4.71E-04 | 2.59E-04 | 2.33E-05 | 3.37E-04 | 2.10E-04 | 2.10E-04 | 1.04E-04 |
| 2057 | 258318.11 | 4085172.21 | 2.41E-04 | 3.48E-03 | 2.66E-03 | 2.56E-03 | 1.43E-03 | 3.65E-05 | 5.30E-04 | 4.00E-04 | 4.00E-04 | 2.20E-04 | 1.98E-05 | 2.87E-04 | 1.78E-04 | 1.78E-04 | 8.82E-05 |
| 2058 | 258342.39 | 4085171.14 | 1.95E-04 | 2.82E-03 | 2.08E-03 | 2.08E-03 | 1.16E-03 | 2.96E-05 | 4.30E-04 | 3.25E-04 | 3.25E-04 | 1.79E-04 | 1.61E-05 | 2.33E-04 | 1.45E-04 | 1.45E-04 | 7.15E-05 |
| 2059 | 257548.43 | 4085223.93 | 2.52E-04 | 3.65E-03 | 2.69E-03 | 2.69E-03 | 1.50E-03 | 3.83E-05 | 5.56E-04 | 4.20E-04 | 4.20E-04 | 2.31E-04 | 2.08E-05 | 3.01E-04 | 1.87E-04 | 1.87E-04 | 9.25E-05 |
| 2060 | 257504.29 | 4085193.29 | 2.26E-04 | 3.27E-03 | 2.41E-03 | 2.41E-03 | 1.34E-03 | 3.43E-05 | 4.98E-04 | 3.76E-04 | 3.76E-04 | 2.07E-04 | 1.86E-05 | 2.70E-04 | 1.67E-04 | 1.67E-04 | 8.29E-05 |
| 2061 | 257590.76 | 4085229.45 | 2.80E-04 | 4.05E-03 | 2.98E-03 | 2.98E-03 | 1.66E-03 | 4.25E-05 | 6.17E-04 | 4.66E-04 | 4.66E-04 | 2.56E-04 | 2.31E-05 | 3.34E-04 | 2.07E-04 | 2.07E-04 | 1.03E-04 |
| 2062 | 257615.04 | 4085228.38 | 2.97E-04 | 4.30E-03 | 3.17E-03 | 3.17E-03 | 1.77E-03 | 4.51E-05 | 6.55E-04 | 4.95E-04 | 4.95E-04 | 2.72E-04 | 2.45E-05 | 3.55E-04 | 2.20E-04 | 2.20E-04 | 1.09E-04 |
| 2063 | 257639.32 | 4085227.3 | 3.11E-04 | 4.49E-03 | 3.31E-03 | 3.31E-03 | 1.85E-03 | 4.72E-05 | 6.85E-04 | 5.17E-04 | 5.17E-04 | 2.84E-04 | 2.56E-05 | 3.70E-04 | 2.30E-04 | 2.30E-04 | 1.14E-04 |
| 2064 | 257663.61 | 4085226.22 | 3.21E-04 | 4.64E-03 | 3.42E-03 | 3.42E-03 | 1.91E-03 | 4.87E-05 | 7.07E-04 | 5.34E-04 | 5.34E-04 | 2.94E-04 | 2.65E-05 | 3.83E-04 | 2.38E-04 | 2.38E-04 | 1.18E-04 |
| 2065 | 257687.89 | 4085225.15 | 3.29E-04 | 4.75E-03 | 3.50E-03 | 3.50E-03 | 1.95E-03 | 4.99E-05 | 7.24E-04 | 5.47E-04 | 5.47E-04 | 3.01E-04 | 2.71E-05 | 3.92E-04 | 2.43E-04 | 2.43E-04 | 1.20E-04 |
| 2066 | 257712.17 | 4085224.07 | 3.35E-04 | 4.84E-03 | 3.57E-03 | 3.57E-03 | 1.99E-03 | 5.08E-05 | 7.37E-04 | 5.57E-04 | 5.57E-04 | 3.06E-04 | 2.76E-05 | 3.99E-04 | 2.48E-04 | 2.48E-04 | 1.23E-04 |
| 2067 | 257736.45 | 4085223 | 3.39E-04 | 4.91E-03 | 3.62E-03 | 3.62E-03 | 2.02E-03 | 5.15E-05 | 7.48E-04 | 5.65E-04 | 5.65E-04 | 3.11E-04 | 2.80E-05 | 4.05E-04 | 2.51E-04 | 2.51E-04 | 1.24E-04 |
| 2068 | 257760.73 | 4085221.92 | 3.43E-04 | 4.96E-03 | 3.66E-03 | 3.66E-03 | 2.04E-03 | 5.21E-05 | 7.56E-04 | 5.71E-04 | 5.71E-04 | 3.14E-04 | 2.83E-05 | 4.09E-04 | 2.54E-04 | 2.54E-04 | 1.26E-04 |
| 2069 | 257785.01 | 4085220.85 | 3.46E-04 | 5.00E-03 | 3.69E-03 | 3.69E-03 | 2.05E-03 | 5.25E-05 | 7.62E-04 | 5.75E-04 | 5.75E-04 | 3.16E-04 | 2.85E-05 | 4.12E-04 | 2.56E-04 | 2.56E-04 | 1.27E-04 |
| 2070 | 257809.3 | 4085219.77 | 3.48E-04 | 5.03E-03 | 3.71E-03 | 3.71E-03 | 2.07E-03 | 5.28E-05 | 7.66E-04 | 5.79E-04 | 5.79E-04 | 3.18E-04 | 2.87E-05 | 4.15E-04 | 2.58E-04 | 2.58E-04 | 1.27E-04 |
| 2071 | 257833.58 | 4085218.7 | 3.49E-04 | 5.05E-03 | 3.72E-03 | 3.72E-03 | 2.07E-03 | 5.30E-05 | 7.69E-04 | 5.81E-04 | 5.81E-04 | 3.19E-04 | 2.88E-05 | 4.16E-04 | 2.59E-04 | 2.59E-04 | 1.28E-04 |
| 2072 | 257857.86 | 4085217.62 | 3.50E-04 | 5.06E-03 | 3.73E-03 | 3.73E-03 | 2.08E-03 | 5.31E-05 | 7.71E-04 | 5.83E-04 | 5.83E-04 | 3.20E-04 | 2.88E-05 | 4.17E-04 | 2.59E-04 | 2.59E-04 | 1.28E-04 |
| 2073 | 257882.14 | 4085216.55 | 3.50E-04 | 5.07E-03 | 3.73E-03 | 3.73E-03 | 2.08E-03 | 5.32E-05 | 7.72E-04 | 5.83E-04 | 5.83E-04 | 3.21E-04 | 2.89E-05 | 4.18E-04 | 2.59E-04 | 2.59E-04 | 1.28E-04 |
| 2074 | 257906.42 | 4085215.47 | 3.49E-04 | 5.04E-03 | 3.72E-03 | 3.72E-03 | 2.07E-03 | 5.29E-05 | 7.68E-04 | 5.80E-04 | 5.80E-04 | 3.19E-04 | 2.87E-05 | 4.16E-04 | 2.58E-04 | 2.58E-04 | 1.28E-04 |
| 2075 | 257930.71 | 4085214.39 | 3.45E-04 | 5.00E-03 | 3.68E-03 | 3.68E-03 | 2.05E-03 | 5.24E-05 | 7.61E-04 | 5.75E-04 | 5.75E-04 | 3.16E-04 | 2.85E-05 | 4.12E-04 | 2.58E-04 | 2.56E-04 | 1.27E-04 |
| 2076 | 257954.99 | 4085213.32 | 3.44E-04 | 4.98E-03 | 3.67E-03 | 3.67E-03 | 2.04E-03 | 5.22E-05 | 7.58E-04 | 5.73E-04 | 5.73E-04 | 3.15E-04 | 2.84E-05 | 4.10E-04 | 2.55E-04 | 2.55E-04 | 1.26E-04 |
| 2077 | 257979.27 | 4085212.24 | 3.42E-04 | 4.95E-03 | 3.65E-03 | 3.65E-03 | 2.03E-03 | 5.19E-05 | 7.54E-04 | 5.69E-04 | 5.69E-04 | 3.13E-04 | 2.82E-05 | 4.08E-04 | 2.53E-04 | 2.53E-04 | 1.25E-04 |
| 2078 | 258003.55 | 4085211.17 | 3.39E-04 | 4.91E-03 | 3.62E-03 | 3.62E-03 | 2.02E-03 | 5.15E-05 | 7.48E-04 | 5.65E-04 | 5.65E-04 | 3.11E-04 | 2.80E-05 | 4.05E-04 | 2.51E-04 | 2.51E-04 | 1.24E-04 |
| 2079 | 258027.83 | 4085210.09 | 3.36E-04 | 4.86E-03 | 3.58E-03 | 3.58E-03 | 2.00E-03 | 5.10E-05 | 7.40E-04 | 5.59E-04 | 5.59E-04 | 3.07E-04 | 2.77E-05 | 4.01E-04 | 2.49E-04 | 2.49E-04 | 1.23E-04 |
| 2080 | 258052.11 | 4085209.02 | 3.32E-04 | 4.80E-03 | 3.54E-03 | 3.54E-03 | 1.97E-03 | 5.03E-05 | 7.31E-04 | 5.52E-04 | 5.52E-04 | 3.03E-04 | 2.73E-05 | 3.95E-04 | 2.46E-04 | 2.46E-04 | 1.22E-04 |
| 2081 | 258076.4 | 4085207.94 | 3.26E-04 | 4.72E-03 | 3.48E-03 | 3.48E-03 | 1.94E-03 | 4.95E-05 | 7.19E-04 | 5.43E-04 | 5.43E-04 | 2.99E-04 | 2.69E-05 | 3.89E-04 | 2.42E-04 | 2.42E-04 | 1.20E-04 |
| 2082 | 258100.68 | 4085206.87 | 3.20E-04 | 4.63E-03 | 3.41E-03 | 3.41E-03 | 1.90E-03 | 4.86E-05 | 7.05E-04 | 5.33E-04 | 5.33E-04 | 2.93E-04 | 2.64E-05 | 3.81E-04 | 2.37E-04 | 2.37E-04 | 1.17E-04 |
| 2083 | 258124.96 | 4085205.79 | 3.12E-04 | 4.52E-03 | 3.33E-03 | 3.33E-03 | 1.86E-03 | 4.74E-05 | 6.88E-04 | 5.20E-04 | 5.20E-04 | 2.86E-04 | 2.57E-05 | 3.72E-04 | 2.31E-04 | 2.31E-04 | 1.14E-04 |
| 2084 | 258149.24 | 4085204.72 | 3.03E-04 | 4.38E-03 | 3.23E-03 | 3.23E-03 | 1.80E-03 | 4.60E-05 | 6.67E-04 | 5.04E-04 | 5.04E-04 | 2.77E-04 | 2.50E-05 | 3.61E-04 | 2.24E-04 | 2.24E-04 | 1.11E-04 |
| 2085 | 258173.52 | 4085203.64 | 2.92E-04 | 4.22E-03 | 3.11E-03 | 3.11E-03 | 1.73E-03 | 4.42E-05 | 6.42E-04 | 4.85E-04 | 4.85E-04 | 2.67E-04 | 2.40E-05 | 3.48E-04 | 2.16E-04 | 2.16E-04 | 1.07E-04 |
| 2086 | 258197.81 | 4085202.56 | 2.78E-04 | 4.02E-03 | 2.96E-03 | 2.96E-03 | 1.65E-03 | 4.22E-05 | 6.12E-04 | 4.63E-04 | 4.63E-04 | 2.54E-04 | 2.29E-05 | 3.31E-04 | 2.06E-04 | 2.06E-04 | 1.02E-04 |
| 2087 | 258222.09 | 4085201.49 | 2.62E-04 | 3.78E-03 | 2.79E-03 | 2.79E-03 | 1.56E-03 | 3.97E-05 | 5.77E-04 | 4.36E-04 | 4.36E-04 | 2.39E-04 | 2.16E-05 | 3.12E-04 | 1.94E-04 | 1.94E-04 | 9.59E-05 |
| 2088 | 258246.37 | 4085200.41 | 2.42E-04 | 3.51E-03 | 2.58E-03 | 2.58E-03 | 1.44E-03 | 3.68E-05 | 5.34E-04 | 4.03E-04 | 4.03E-04 | 2.22E-04 | 2.00E-05 | 2.89E-04 | 1.80E-04 | 1.80E-04 | 8.89E-05 |
| 2089 | 258270.65 | 4085199.34 | 2.20E-04 | 3.18E-03 | 2.34E-03 | 2.34E-03 | 1.31E-03 | 3.34E-05 | 4.85E-04 | 3.66E-04 | 3.66E-04 | 2.01E-04 | 1.81E-05 | 2.62E-04 | 1.63E-04 | 1.63E-04 | 8.06E-05 |
| 2090 | 258294.93 | 4085198.26 | 1.95E-04 | 2.82E-03 | 2.08E-03 | 2.08E-03 | 1.16E-03 | 2.95E-05 | 4.29E-04 | 3.24E-04 | 3.24E-04 | 1.78E-04 | 1.60E-05 | 2.32E-04 | 1.44E-04 | 1.44E-04 | 7.14E-05 |
| 2091 | 258319.21 | 4085197.19 | 1.68E-04 | 2.42E-03 | 1.79E-03 | 1.79E-03 | 9.96E-04 | 2.54E-05 | 3.69E-04 | 2.79E-04 | 2.79E-04 | 1.53E-04 | 1.38E-05 | 2.00E-04 | 1.24E-04 | 1.24E-04 | 6.14E-05 |
| 2092 | 268343.5 | 4085196.11 | 1.41E-04 | 2.03E-03 | 1.50E-03 | 1.50E-03 | 8.36E-04 | 2.13E-05 | 3.10E-04 | 2.34E-04 | 2.34E-04 | 1.29E-04 | 1.16E-05 | 1.68E-04 | 1.04E-04 | 1.04E-04 | 5.16E-05 |
| 2093 | 258367.78 | 4085195.04 | 1.17E-04 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1887 | 256264.28 | 4084982.52 | 3.81E-06 | 5.51E-05 | 4.06E-05 | 4.06E-05 | 2.27E-05 | 5.78E-07 | 8.40E-06 | 6.34E-06 | 6.34E-06 | 3.49E-06 | 3.14E-07 | 4.54E-06 | 2.82E-06 | 2.82E-06 | 1.40E-06 |
| 1888 | 256279.6 | 4084941.15 | 3.57E-06 | 5.16E-05 | 3.80E-05 | 3.80E-05 | 2.12E-05 | 5.41E-07 | 7.86E-06 | 5.94E-06 | 5.94E-06 | 3.26E-06 | 2.94E-07 | 4.25E-06 | 2.64E-06 | 2.64E-06 | 1.31E-06 |
| 1889 | 256294.92 | 4084899.78 | 3.32E-06 | 4.80E-05 | 3.54E-05 | 3.54E-05 | 1.97E-05 | 5.04E-07 | 7.31E-06 | 5.53E-06 | 5.53E-06 | 3.04E-06 | 2.74E-07 | 3.96E-06 | 2.46E-06 | 2.46E-06 | 1.22E-06 |
| 1890 | 256310.24 | 4084858.42 | 3.09E-06 | 4.47E-05 | 3.30E-05 | 3.30E-05 | 1.84E-05 | 4.69E-07 | 6.81E-06 | 5.15E-06 | 5.15E-06 | 2.83E-06 | 2.55E-07 | 3.69E-06 | 2.29E-06 | 2.29E-06 | 1.13E-06 |
| 1891 | 258325.56 | 4084817.05 | 2.90E-06 | 4.19E-05 | 3.09E-05 | 3.09E-05 | 1.72E-05 | 4.40E-07 | 6.39E-06 | 4.83E-06 | 4.83E-06 | 2.65E-06 | 2.39E-07 | 3.46E-06 | 2.15E-06 | 2.15E-06 | 1.06E-06 |
| 1892 | 256340.87 | 4084775.68 | 2.75E-06 | 3.97E-05 | 2.93E-05 | 2.93E-05 | 1.63E-05 | 4.17E-07 | 6.05E-06 | 4.57E-06 | 4.57E-06 | 2.51E-06 | 2.26E-07 | 3.27E-06 | 2.03E-06 | 2.03E-06 | 1.01E-06 |
| 1893 | 256356.19 | 4084734.31 | 2.62E-06 | 3.80E-05 | 2.80E-05 | 2.80E-05 | 1.56E-05 | 3.98E-07 | 5.78E-06 | 4.37E-06 | 4.37E-06 | 2.40E-06 | 2.16E-07 | 3.13E-06 | 1.94E-06 | 1.94E-06 | 9.62E-07 |
| 1894 | 258371.51 | 4084692.95 | 2.52E-06 | 3.65E-05 | 2.69E-05 | 2.69E-05 | 1.50E-05 | 3.83E-07 | 5.56E-06 | 4.20E-06 | 4.20E-06 | 2.31E-06 | 2.08E-07 | 3.01E-06 | 1.87E-06 | 1.87E-06 | 9.25E-07 |
| 1895 | 256386.83 | 4084651.58 | 2.43E-06 | 3.51E-05 | 2.59E-05 | 2.59E-05 | 1.44E-05 | 3.69E-07 | 5.35E-06 | 4.05E-06 | 4.05E-06 | 2.22E-06 | 2.00E-07 | 2.90E-06 | 1.80E-06 | 1.80E-06 | 8.91E-07 |
| 1896 | 256402.15 | 4084610.21 | 2.33E-06 | 3.37E-05 | 2.48E-05 | 2.48E-05 | 1.38E-05 | 3.53E-07 | 5.13E-06 | 3.87E-06 | 3.87E-06 | 2.13E-06 | 1.92E-07 | 2.78E-06 | 1.72E-06 | 1.72E-06 | 8.53E-07 |
| 1897 | 256417.47 | 4084568.84 | 2.21E-06 | 3.20E-05 | 2.36E-05 | 2.36E-05 | 1.31E-05 | 3.36E-07 | 4.87E-06 | 3.68E-06 | 3.68E-06 | 2.02E-06 | 1.82E-07 | 2.64E-06 | 1.64E-06 | 1.64E-06 | 8.10E-07 |
| 1898 | 256432.79 | 4084527.48 | 2.08E-06 | 3.00E-05 | 2.21E-05 | 2.21E-05 | 1.23E-05 | 3.15E-07 | 4.57E-06 | 3.46E-06 | 3.46E-06 | 1.90E-06 | 1.71E-07 | 2.47E-06 | 1.54E-06 | 1.54E-06 | 7.61E-07 |
| 1899 | 256448.11 | 4084486.11 | 1.93E-06 | 2.79E-05 | 2.06E-05 | 2.06E-05 | 1.15E-05 | 2.93E-07 | 4.25E-06 | 3.21E-06 | 3.21E-06 | 1.76E-06 | 1.59E-07 | 2.30E-06 | 1.43E-06 | 1.43E-06 | 7.07E-07 |
| 1900 | 256463.43 | 4084444.74 | 1.79E-06 | 2.59E-05 | 1.91E-05 | 1.91E-05 | 1.06E-05 | 2.71E-07 | 3.94E-06 | 2.98E-06 | 2.98E-06 | 1.64E-06 | 1.47E-07 | 2.13E-06 | 1.32E-06 | 1.32E-06 | 6.56E-07 |
| 1901 | 256478.74 | 4084403.37 | 1.67E-06 | 2.42E-05 | 1.78E-05 | 1.78E-05 | 9.93E-06 | 2.53E-07 | 3.68E-06 | 2.78E-06 | 2.78E-06 | 1.53E-06 | 1.38E-07 | 1.99E-06 | 1.24E-06 | 1.24E-06 | 6.12E-07 |
| 1902 | 256494.06 | 4084362 | 1.58E-06 | 2.28E-05 | 1.68E-05 | 1.68E-05 | 9.38E-06 | 2.39E-07 | 3.48E-06 | 2.63E-06 | 2.63E-06 | 1.44E-06 | 1.30E-07 | 1.88E-06 | 1.17E-06 | 1.17E-06 | 5.78E-07 |
| 1903 | 256509.38 | 4084320.64 | 1.52E-06 | 2.19E-05 | 1.62E-05 | 1.62E-05 | 9.01E-06 | 2.30E-07 | 3.34E-06 | 2.52E-06 | 2.52E-06 | 1.39E-06 | 1.25E-07 | 1.81E-06 | 1.12E-06 | 1.12E-06 | 5.56E-07 |
| 1904 | 256524.7 | 4084279.27 | 1.48E-06 | 2.14E-05 | 1.58E-05 | 1.58E-05 | 8.79E-06 | 2.25E-07 | 3.26E-06 | 2.46E-06 | 2.46E-06 | 1.35E-06 | 1.22E-07 | 1.76E-06 | 1.10E-06 | 1.10E-06 | 5.42E-07 |
| 1905 | 256540.02 | 4084237.9 | 1.46E-06 | 2.11E-05 | 1.56E-05 | 1.56E-05 | 8.67E-06 | 2.21E-07 | 3.21E-06 | 2.43E-06 | 2.43E-06 | 1.34E-06 | 1.20E-07 | 1.74E-06 | 1.08E-06 | 1.08E-06 | 5.35E-07 |
| 1906 | 256555.34 | 4084196.53 | 1.45E-06 | 2.09E-05 | 1.54E-05 | 1.54E-05 | 8.60E-06 | 2.20E-07 | 3.19E-06 | 2.41E-06 | 2.41E-06 | 1.32E-06 | 1.19E-07 | 1.72E-06 | 1.07E-06 | 1.07E-06 | 5.30E-07 |
| 1907 | 256570.66 | 4084155.17 | 1.44E-06 | 2.08E-05 | 1.53E-05 | 1.53E-05 | 8.54E-06 | 2.18E-07 | 3.17E-06 | 2.39E-06 | 2.39E-06 | 1.31E-06 | 1.18E-07 | 1.71E-06 | 1.06E-06 | 1.06E-06 | 5.27E-07 |
| 1908 | 256585.98 | 4084113.8 | 1.43E-06 | 2.06E-05 | 1.52E-05 | 1.52E-05 | 8.48E-06 | 2.16E-07 | 3.14E-06 | 2.37E-06 | 2.37E-06 | 1.31E-06 | 1.18E-07 | 1.70E-06 | 1.06E-06 | 1.06E-06 | 5.23E-07 |
| 1909 | 256621.32 | 4084063.18 | 1.42E-06 | 2.05E-05 | 1.51E-05 | 1.51E-05 | 8.42E-06 | 2.15E-07 | 3.12E-06 | 2.36E-06 | 2.36E-06 | 1.30E-06 | 1.17E-07 | 1.69E-06 | 1.05E-06 | 1.05E-06 | 5.19E-07 |
| 1910 | 256661.36 | 4084044.68 | 1.43E-06 | 2.07E-05 | 1.52E-05 | 1.52E-05 | 8.49E-06 | 2.17E-07 | 3.15E-06 | 2.38E-06 | 2.38E-06 | 1.31E-06 | 1.18E-07 | 1.70E-06 | 1.06E-06 | 1.06E-06 | 5.24E-07 |
| 1911 | 256701.41 | 4084026.18 | 1.44E-06 | 2.08E-05 | 1.53E-05 | 1.53E-05 | 8.54E-06 | 2.18E-07 | 3.17E-06 | 2.39E-06 | 2.39E-06 | 1.31E-06 | 1.18E-07 | 1.71E-06 | 1.06E-06 | 1.06E-06 | 5.27E-07 |
| 1912 | 256741.46 | 4084007.68 | 1.44E-06 | 2.09E-05 | 1.54E-05 | 1.54E-05 | 8.59E-06 | 2.19E-07 | 3.18E-06 | 2.40E-06 | 2.40E-06 | 1.32E-06 | 1.19E-07 | 1.72E-06 | 1.07E-06 | 1.07E-06 | 5.30E-07 |
| 1913 | 256781.5 | 4083989.18 | 1.45E-06 | 2.10E-05 | 1.55E-05 | 1.55E-05 | 8.63E-06 | 2.20E-07 | 3.20E-06 | 2.42E-06 | 2.42E-06 | 1.33E-06 | 1.20E-07 | 1.73E-06 | 1.08E-06 | 1.08E-06 | 5.33E-07 |
| 1914 | 256821.55 | 4083970.68 | 1.46E-06 | 2.11E-05 | 1.56E-05 | 1.56E-05 | 8.67E-06 | 2.21E-07 | 3.21E-06 | 2.43E-06 | 2.43E-06 | 1.34E-06 | 1.20E-07 | 1.74E-06 | 1.08E-06 | 1.08E-06 | 5.35E-07 |
| 1915 | 256861.59 | 4083952.18 | 1.46E-06 | 2.11E-05 | 1.56E-05 | 1.56E-05 | 8.68E-06 | 2.22E-07 | 3.22E-06 | 2.43E-06 | 2.43E-06 | 1.34E-06 | 1.20E-07 | 1.74E-06 | 1.08E-06 | 1.08E-06 | 5.36E-07 |
| 1916 | 256901.64 | 4083933.68 | 1.46E-06 | 2.11E-05 | 1.56E-05 | 1.56E-05 | 8.67E-06 | 2.21E-07 | 3.21E-06 | 2.43E-06 | 2.43E-06 | 1.34E-06 | 1.20E-07 | 1.74E-06 | 1.08E-06 | 1.08E-06 | 5.35E-07 |
| 1917 | 256941.69 | 4083915.18 | 1.45E-06 | 2.10E-05 | 1.55E-05 | 1.55E-05 | 8.62E-06 | 2.20E-07 | 3.20E-06 | 2.41E-06 | 2.41E-06 | 1.33E-06 | 1.20E-07 | 1.73E-06 | 1.07E-06 | 1.07E-06 | 5.32E-07 |
| 1918 | 256981.73 | 4083896.67 | 1.44E-06 | 2.08E-05 | 1.53E-05 | 1.53E-05 | 8.55E-06 | 2.18E-07 | 3.17E-06 | 2.39E-06 | 2.39E-06 | 1.32E-06 | 1.19E-07 | 1.71E-06 | 1.07E-06 | 1.07E-06 | 5.27E-07 |
| 1919 | 257021.78 | 4083878.17 | 1.42E-06 | 2.06E-05 | 1.52E-05 | 1.52E-05 | 8.46E-06 | 2.16E-07 | 3.14E-06 | 2.37E-06 | 2.37E-06 | 1.30E-06 | 1.17E-07 | 1.70E-06 | 1.05E-06 | 1.05E-06 | 5.22E-07 |
| 1920 | 257061.82 | 4083859.67 | 1.41E-06 | 2.04E-05 | 1.50E-05 | 1.50E-05 | 8.38E-06 | 2.14E-07 | 3.11E-06 | 2.35E-06 | 2.35E-06 | 1.29E-06 | 1.16E-07 | 1.68E-06 | 1.04E-06 | 1.04E-06 | 5.17E-07 |
| 1921 | 257101.87 | 4083841.17 | 1.40E-06 | 2.02E-05 | 1.49E-05 | 1.49E-05 | 8.31E-06 | 2.12E-07 | 3.08E-06 | 2.33E-06 | 2.33E-06 | 1.28E-06 | 1.15E-07 | 1.67E-06 | 1.03E-06 | 1.03E-06 | 5.12E-07 |
| 1922 | 257141.92 | 4083822.67 | 1.39E-06 | 2.00E-06 | 1.48E-05 | 1.48E-05 | 8.23E-06 | 2.10E-07 | 3.05E-06 | 2.31E-06 | 2.31E-06 | 1.27E-06 | 1.14E-07 | 1.65E-06 | 1.03E-06 | 1.03E-06 | 5.08E-07 |
| 1923 | 257181.96 | 4083804.17 | 1.37E-06 | 1.99E-05 | 1.46E-05 | 1.46E-05 | 8.16E-06 | 2.08E-07 | 3.03E-06 | 2.29E-06 | 2.29E-06 | 1.26E-06 | 1.13E-07 | 1.64E-06 | 1.02E-06 | 1.02E-06 | 5.03E-07 |
| 1924 | 257222.01 | 4083785.67 | 1.36E-06 | 1.97E-05 | 1.45E-05 | 3.45E-05 | 8.09E-06 | 2.06E-07 | 3.00E-06 | 2.26E-06 | 2.26E-06 | 1.25E-06 | 1.12E-07 | 1.62E-06 | 1.01E-06 | 1.01E-06 | 4.99E-07 |
| 1925 | 257262.05 | 4083767.17 | 1.35E-06 | 1.95E-05 | 1.44E-05 | 1.44E-05 | 8.03E-06 | 2.05E-07 | 2.98E-06 | 2.25E-06 | 2.25E-06 | 1.24E-06 | 1.11E-07 | 1.61E-06 | 1.00E-06 | 1.00E-06 | 4.95E-07 |
| 1926 | 257302.1 | 4083748.67 | 1.34E-06 | 1.94E-05 | 3.43E-05 | 3.43E-05 | 7.96E-06 | 2.03E-07 | 2.95E-06 | 2.23E-06 | 2.23E-06 | 1.23E-06 | 1.10E-07 | 1.60E-06 | 9.92E-07 | 9.92E-07 | 4.91E-07 |
| 1927 | 257342.15 | 4083730.17 | 1.33E-06 | 1.92E-05 | 1.42E-05 | 1.42E-05 | 7.90E-06 | 2.02E-07 | 2.93E-06 | 2.21E-06 | 2.21E-06 | 1.22E-06 | 1.10E-07 | 1.59E-06 | 9.85E-07 | 9.85E-07 | 4.87E-07 |
| 1928 | 257382.19 | 4083711.67 | 1.32E-06 | 1.91E-05 | 1.41E-05 | 1.41E-05 | 7.85E-06 | 2.01E-07 | 2.91E-06 | 2.20E-06 | 2.20E-06 | 1.21E-06 | 1.09E-07 | 1.58E-06 | 9.79E-07 | 9.79E-07 | 4.84E-07 |
| 1929 | 257422.24 | 4083693.17 | 1.32E-06 | 1.90E-05 | 1.40E-05 | 1.40E-05 | 7.82E-06 | 2.00E-07 | 2.90E-06 | 2.19E-06 | 2.19E-06 | 1.20E-06 | 1.08E-07 | 1.57E-06 | 9.74E-07 | 9.74E-07 | 4.82E-07 |
| 1930 | 257462.28 | 4083674.67 | 1.31E-06 | 1.90E-05 | 1.40E-05 | 1.40E-05 | 7.79E-06 | 1.99E-07 | 2.89E-06 | 2.18E-06 | 2.18E-06 | 1.20E-06 | 1.08E-07 | 1.56E-06 | 9.71E-07 | 9.71E-07 | 4.81E-07 |
| 1931 | 256257.45 | 4085025.49 | 4.04E-06 | 5.84E-05 | 4.31E-05 | 4.31E-05 | 2.40E-05 | 6.13E-07 | 8.90E-06 | 6.73E-06 | 6.73E-06 | 3.70E-06 | 3.33E-07 | 4.82E-06 | 2.99E-06 | 2.99E-06 | 1.48E-06 |
| 1932 | 256259.1 | 4085070.05 | 4.24E-06 | 6.13E-05 | 4.52E-05 | 4.52E-05 | 2.52E-05 | 6.43E-07 | 9.33E-06 | 7.05E-06 | 7.05E-06 | 3.88E-06 | 3.49E-07 | 5.05E-06 | 3.14E-06 | 3.14E-06 | 1.55E-06 |
| 1933 | 256260.75 | 4085114.61 | 4.35E-06 | 6.30E-05 | 4.64E-05 | 4.64E-05 | 2.59E-05 | 6.61E-07 | 9.59E-06 | 7.25E-06 | 7.25E-06 | 3.98E-06 | 3.59E-07 | 5.19E-06 | 3.22E-06 | 3.22E-06 | 1.60E-06 |
| 1934 | 256261.57 | 4085136.89 | 4.39E-06 | 6.35E-06 | 4.68E-05 | 4.68E-05 | 2.61E-05 | 6.67E-07 | 9.68E-06 | 7.31E-06 | 7.31E-06 | 4.02E-06 | 3.62E-07 | 5.24E-06 | 3.25E-06 | 3.25E-06 | 1.61E-06 |
| 1935 | 256263.23 | 4085181.45 | 4.45E-06 | 6.44E-05 | 4.74E-05 | 4.74E-05 | 2.65E-05 | 6.75E-07 | 9.81E-06 | 7.41E-06 | 7.41E-06 | 4.07E-06 | 3.67E-07 | 5.31E-06 | 3.30E-06 | 3.30E-06 | 1.63E-06 |
| 1936 | 256064.41 | 4084989.96 | 3.34E-06 | 4.82E-05 | 3.56E-05 | 3.56E-05 | 1.98E-05 | 5.06E-07 | 7.35E-06 | 5.55E-06 | 5.55E-06 | 3.05E-06 | 2.75E-07 | 3.98E-06 | 2.47E-06 | 2.47E-06 | 1.22E-06 |
| 1937 | 256079.7 | 4084948.65 | 3.16E-06 | 4.56E-05 | 3.36E-05 | 3.36E-05 | 1.88E-05 | 4.79E-07 | 6.95E-06 | 5.25E-06 | 5.25E-06 | 2.89E-06 | 2.60E-07 | 3.76E-06 | 2.34E-06 | 2.34E-06 | 1.16E-06 |
| 1938 | 256095 | 4084907.34 | 2.96E-06 | 4.28E-05 | 3.15E-05 | 3.15E-05 | 1.76E-05 | 4.49E-07 | 6.52E-06 | 4.93E-06 | 4.93E-06 | 2.71E-06 | 2.44E-07 | 3.53E-06 | 2.19E-06 | 2.19E-06 | 1.08E-06 |
| 1939 | 256110.3 | 4084866.04 | 2.77E-06 | 4.01E-05 | 2.95E-05 | 2.95E-05 | 1.65E-05 | 4.20E-07 | 6.10E-06 | 4.61E-06 | 4.61E-06 | 2.54E-06 | 2.28E-07 | 3.30E-06 | 2.05E-06 | 2.05E-06 | 1.02E-06 |
| 1940 | 256125.59 | 4084824.73 | 2.60E-06 | 3.76E-05 | 2.77E-05 | 2.77E-05 | 1.55E-05 | 3.95E-07 | 5.73E-06 | 4.33E-06 | 4.33E-06 | 2.38E-06 | 2.15E-07 | 3.10E-06 | 1.93E-06 | 1.93E-06 | 9.54E-07 |
| 1941 | 256140.89 | 4084783.42 | 2.46E-06 | 3.56E-05 | 2.63E-05 | 2.63E-05 | 1.46E-05 | 3.74E-07 | 5.43E-06 | 4.10E-06 | 4.10E-06 | 2.25E-06 | 2.03E-07 | 2.94E-06 | 1.82E-06 | 1.82E-06 | 9.03E-07 |
| 1942 | 256156.18 | 4084742.12 | 2.35E-06 | 3.40E-05 | 2.51E-05 | 2.51E-05 | 1.40E-05 | 3.57E-07 | 5.18E-06 | 3.92E-06 | 3.92E-06 | 2.15E-06 | 1.94E-07 | 2.80E-06 | 1.74E-06 | 1.74E-06 | 8.62E-07 |
| 1943 | 256171.48 | 4084700.81 | 2.26E-06 | 3.27E-05 | 2.41E-05 | 2.41E-05 | 1.35E-05 | 3.44E-07 | 4.99E-06 | 3.77E-06 | 3.77E-06 | 2.07E-06 | 1.87E-07 | 2.70E-06 | 1.68E-06 | 1.68E-06 | 8.30E-07 |
| 1944 | 256186.78 | 4084659.5 | 2.19E-06 | 3.17E-05 | 2.34E-05 | 2.34E-05 | 1.30E-05 | 3.32E-07 | 4.83E-06 | 3.65E-06 | 3.65E-06 | 2.00E-06 | 1.81E-07 | 2.61E-06 | 1.62E-06 | 1.62E-06 | 8.03E-07 |
| 1945 | 256202.07 | 4084618.2 | 2.12E-06 | 3.07E-05 | 2.26E-05 | 2.26E-05 | 1.26E-05 | 3.22E-07 | 4.68E-06 | 3.53E-06 | 3.53E-06 | 1.94E-06 | 1.75E-07 | 2.53E-06 | 1.57E-06 | 1.57E-06 | 7.78E-07 |
| 1946 | 256217.37 | 4084576.89 | 2.05E-06 | 2.97E-05 | 2.19E-05 | 2.19E-05 | 1.22E-05 | 3.11E-07 | 4.52E-06 | 3.41E-06 | 3.41E-06 | 1.88E-06 | 1.69E-07 | 2.45E-06 | 1.52E-06 | 1.52E-06 | 7.52E-07 |
| 1947 | 256232.66 | 4084535.58 | 1.97E-06 | 2.85E-05 | 2.10E-05 | 2.10E-05 | 1.17E-05 | 2.99E-07 | 4.34E-06 | 3.28E-06 | 3.28E-06 | 1.80E-06 | 1.62E-07 | 2.35E-06 | 1.46E-06 | 1.46E-06 | 7.22E-07 |
| 1948 | 256247.96 | 4084494.28 | 1.87E-06 | 2.70E-05 | 1.99E-05 | 1.99E-05 | 1.11E-05 | 2.84E-07 | 4.12E-06 | 3.11E-06 | 3.11E-06 | 1.71E-06 | 1.54E-07 | 2.23E-06 | 1.38E-06 | 1.38E-06 | 6.85E-07 |
| 1949 | 256263.26 | 4084452.97 | 1.75E-06 | 2.53E-05 | 1.87E-05 | 1.87E-05 | 1.04E-05 | 2.66E-07 | 3.86E-06 | 2.91E-06 | 2.91E-06 | 1.60E-06 | 1.44E-07 | 2.09E-06 | 1.30E-06 | 1.30E-06 | 6.41E-07 |
| 1950 | 256278.55 | 4084411.66 | 1.63E-06 | 2.36E-05 | 1.74E-05 | 1.74E-05 | 9.69E-06 | 2.48E-07 | 3.59E-06 | 2.71E-06 | 2.71E-06 | 1.49E-06 | 1.34E-07 | 1.94E-06 | 1.21E-06 | 1.21E-06 | 5.98E-07 |
| 1951 | 256293.85 | 4084370.36 | 1.51E-06 | 2.19E-05 | 1.61E-05 | 1.61E-05 | 8.99E-06 | 2.30E-07 | 3.33E-06 | 2.52E-06 | 2.52E-06 | 1.38E-06 | 1.25E-07 | 1.80E-06 | 1.12E-06 | 1.12E-06 | 5.54E-07 |
| 1952 | 256309.15 | 4084329.05 | 1.41E-06 | 2.04E-05 | 1.50E-05 | 1.50E-05 | 8.38E-06 | 2.14E-07 | 3.11E-06 | 2.35E-06 | 2.35E-06 | 1.29E-06 | 1.16E-07 | 1.68E-06 | 1.04E-06 | 1.04E-06 | 5.17E-07 |
| 1953 | 256324.44 | 4084287.74 | 1.33E-06 | 1.92E-05 | 1.42E-05 | 1.42E-05 | 7.90E-06 | 2.02E-07 | 2.93E-06 | 2.21E-06 | 2.21E-06 | 1.22E-06 | 1.10E-07 | 1.59E-06 | 9.85E-07 | 9.85E-07 | 4.87E-07 |
| 1954 | 256339.74 | 4084246.44 | 1.27E-06 | 1.84E-05 | 1.36E-05 | 1.36E-05 | 7.58E-06 | 1.93E-07 | 2.81E-06 | 2.12E-06 | 2.12E-06 | 1.17E-06 | 1.05E-07 | 1.52E-06 | 9.44E-07 | 9.44E-07 | 4.67E-07 |
| 1955 | 256355.03 | 4084205.13 | 1.24E-06 | 1.80E-05 | 1.32E-05 | 1.32E-05 | 7.38E-06 | 1.88E-07 | 2.74E-06 | 2.07E-06 | 2.07E-06 | 1.14E-06 | 1.02E-07 | 1.48E-06 | 9.20E-07 | 9.20E-07 | 4.55E-07 |
| 1956 | 256370.33 | 4084163.83 | 1.23E-06 | 1.78E-05 | 1.31E-05 | 1.31E-05 | 7.31E-06 | 1.87E-07 | 2.71E-06 | 2.06E-06 | 2.05E-06 | 1.13E-06 | 1.01E-07 | 1.47E-06 | 9.10E-07 | 9.10E-07 | 4.51E-07 |
| 1957 | 256385.63 | 4084122.52 | 1.23E-06 | 1.78E-05 | 1.31E-05 | 1.31E-05 | 7.31E-06 | 1.87E-07 | 2.71E-06 | 2.06E-06 | 2.05E-06 | 1.13E-06 | 1.01E-07 | 1.47E-06 | 9.10E-07 | 9.10E-07 | 4.51E-07 |
| 1958 | 256400.92 | 4084081.21 | 1.24E-06 | 1.79E-05 | 1.32E-05 | 1.32E-06 | 7.34E-06 | 1.88E-07 | 2.72E-06 | 2.06E-06 | 2.06E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.15E-07 | 9.15E-07 | 4.53E-07 |
| 1959 | 256416.22 | 4084039.91 | 1.24E-06 | 1.79E-05 | 1.32E-05 | 1.32E-06 | 7.37E-06 | 1.88E-07 | 2.73E-06 | 2.06E-06 | 2.06E-06 | 1.13E-06 | 1.02E-07 | 1.48E-06 | 9.18E-07 | 9.18E-07 | 4.54E-07 |
| 1960 | 256431.51 | 4083998.6 | 1.24E-06 | 1.80E-05 | 1.32E-05 | 1.32E-05 | 7.38E-06 | 1.88E-07 | 2.74E-06 | 2.07E-06 | 2.07E-06 | 1.14E-06 | 1.02E-07 | 1.48E-06 | 9.20E-07 | 9.20E-07 | 4.55E-07 |
| 1961 | 256446.81 | 4083957.29 | 1.23E-06 | 1.78E-05 | 1.32E-05 | 1.32E-05 | 7.33E-06 | 1.87E-07 | 2.72E-06 | 2.05E-06 | 2.05E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.14E-07 | 9.14E-07 | 4.52E-07 |
| 1962 | 256474.45 | 4083927.4 | 1.23E-06 | 1.78E-06 | 1.31E-05 | 1.31E-05 | 7.32E-06 | 1.87E-07 | 2.71E-06 | 2.05E-06 | 2.05E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.12E-07 | 9.12E-07 | 4.51E-07 |
| 1963 | 256514.44 | 4083908.93 | 1.24E-06 | 1.79E-05 | 1.32E-05 | 1.32E-05 | 7.34E-06 | 1.88E-07 | 2.72E-06 | 2.06E-06 | 2.06E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.15E-07 | 9.15E-07 | 4.53E-07 |
| 1964 | 256554.43 | 4083890.46 | 1.24E-06 | 1.79E-05 | 1.32E-05 | 1.32E-05 | 7.34E-06 | 1.88E-07 | 2.72E-06 | 2.06E-06 | 2.06E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.15E-07 | 9.15E-07 | 4.53E-07 |
| 1965 | 256594.41 | 4083871.98 | 1.23E-06 | 1.78E-05 | 1.31E-05 | 1.31E-05 | 7.32E-06 | 1.87E-07 | 2.71E-06 | 2.05E-06 | 2.05E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.12E-07 | 9.12E-07 | 4.51E-07 |
| 1966 | 256634.4 | 4083853.51 | 1.23E-06 | 1.78E-05 | 1.31E-05 | 1.31E-05 | 7.30E-06 | 1.86E-07 | 2.70E-06 | 2.04E-06 | 2.04E-06 | 1.12E-06 | 1.01E-07 | 1.46E-06 | 9.09E-07 | 9.09E-07 | 4.50E-07 |
| 1967 | 256674.39 | 4083835.04 | 1.23E-06 | 1.77E-05 | 1.31E-05 | 1.31E-05 | 7.28E-06 | 1.86E-07 | 2.70E-06 | 2.04E-06 | 2.04E-06 | 1.12E-06 | 1.01E-07 | 1.46E-06 | 9.07E-07 | 9.07E-07 | 4.49E-07 |
| 1968 | 256714.37 | 4083816.56 | 1.22E-06 | 1.77E-05 | 1.30E-05 | 1.30E-05 | 7.27E-06 | 1.86E-07 | 2.70E-06 | 2.04E-06 | 2.04E-06 | 1.12E-06 | 1.01E-07 | 1.46E-06 | 9.06E-07 | 9.06E-07 | 4.48E-07 |
| 1969 | 256754.36 | 4083798.09 | 1.22E-06 | 1.77E-05 | 1.30E-05 | 1.30E-05 | 7.26E-06 | 1.85E-07 | 2.69E-06 | 2.03E-06 | 2.03E-06 | 1.32E-06 | 1.01E-07 | 1.46E-06 | 9.04E-07 | 9.04E-07 | 4.48E-07 |
| 1970 | 256794.35 | 4083779.62 | 1.22E-06 | 1.76E-05 | 1.30E-06 | 1.30E-05 | 7.23E-06 | 1.85E-07 | 2.68E-06 | 2.03E-06 | 2.03E-06 | 1.11E-06 | 1.00E-07 | 1.45E-06 | 9.01E-07 | 9.01E-07 | 4.46E-07 |
| 1971 | 256834.33 | 4083761.34 | 1.21E-06 | 1.75E-05 | 1.29E-05 | 1.29E-05 | 7.21E-06 | 1.84E-07 | 2.67E-06 | 2.02E-06 | 2.02E-06 | 1.11E-06 | 1.00E-07 | 1.45E-06 | 8.98E-07 | 8.98E-07 | 4.45E-07 |
| 1972 | 256874.32 | 4083742.67 | 1.21E-06 | 1.75E-05 | 1.29E-05 | 1.29E-05 | 7.20E-06 | 1.84E-07 | 2.67E-06 | 2.02E-06 | 2.02E-06 | 1.11E-06 | 9.98E-08 | 1.44E-06 | 8.97E-07 | 8.97E-07 | 4.44E-07 |
| 1973 | 256914.31 | 4083724.2 | 1.21E-06 | 1.75E-05 | 1.29E-05 | 1.29E-05 | 7.17E-06 | 1.83E-07 | 2.66E-06 | 2.01E-06 | 2.01E-06 | 1.10E-06 | 9.95E-08 | 1.44E-06 | 8.94E-07 | 8.94E-07 | 4.42E-07 |
| 1974 | 256954.29 | 4083705.72 | 1.20E-06 | 1.74E-05 | 1.28E-05 | 1.28E-05 | 7.15E-06 | 1.83E-07 | 2.65E-06 | 2.00E-06 | 2.00E-06 | 1.10E-06 | 9.91E-08 | 1.43E-06 | 8.91E-07 | 8.91E-07 | 4.41E-07 |
| 1975 | 256994.28 | 4083687.25 | 1.20E-06 | 1.73E-05 | 1.28E-05 | 1.28E-05 | 7.12E-06 | 1.82E-07 | 2.64E-06 | 2.00E-06 | 2.00E-06 | 1.10E-06 | 9.88E-08 | 1.43E-06 | 8.88E-07 | 8.88E-07 | 4.39E-07 |
| 1976 | 257034.27 | 4083668.78 | 1.19E-06 | 1.72E-05 | 1.27E-05 | 1.27E-05 | 7.09E-06 | 1.81E-07 | 2.63E-06 | 1.98E-06 | 1.98E-06 | 1.09E-06 | 9.83E-08 | 1.42E-06 | 8.83E-07 | 8.83E-07 | 4.37E-07 |
| 1977 | 257074.25 | 4083650.3 | 1.18E-06 | 1.71E-05 | 1.26E-05 | 1.26E-05 | 7.04E-06 | 1.80E-07 | 2.61E-06 | 1.97E-06 | 1.97E-06 | 1.08E-06 | 9.76E-08 | 1.41E-06 | 8.77E-07 | 8.77E-07 | 4.34E-07 |
| 1978 | 257114.24 | 4083631.83 | 1.17E-06 | 1.70E-05 | 1.25E-05 | 1.25E-05 | 6.98E-06 | 1.78E-07 | 2.59E-06 | 1.95E-06 | 1.95E-06 | 1.07E-06 | 9.68E-08 | 1.40E-06 | 8.70E-07 | 8.70E-07 | 4.30E-07 |
| 1979 | 257154.23 | 4083613.36 | 1.16E-06 | 1.68E-05 | 1.24E-05 | 1.24E-05 | 6.91E-06 | 1.76E-07 | 2.56E-06 | 1.93E-06 | 1.93E-06 | 1.06E-06 | 9.58E-08 | 1.39E-06 | 8.60E-07 | 8.60E-07 | 4.26E-07 |
| 1980 | 257194.21 | 4083594.88 | 1.15E-06 | 1.66E-05 | 1.22E-05 | 1.22E-05 | 6.81E-06 | 1.74E-07 | 2.52E-06 | 1.91E-06 | 1.91E-06 | 1.05E-06 | 9.44E-08 | 1.37E-06 | 8.48E-07 | 8.48E-07 | 4.20E-07 |
| 1981 | 257234.2 | 4083576.41 | 1.13E-06 | 1.63E-05 | 1.20E-05 | 1.20E-05 | 6.70E-06 | 1.71E-07 | 2.48E-06 | 1.88E-06 | 1.88E-06 | 1.03E-06 | 9.29E-08 | 1.34E-06 | 8.35E-07 | 8.35E-07 | 4.13E-07 |
| 1982 | 257274.19 | 4083557.94 | 1.11E-06 | 1.60E-05 | 1.18E-05 | 1.18E-05 | 6.59E-06 | 1.68E-07 | 2.44E-06 | 1.85E-06 | 1.85E-06 | 1.01E-06 | 9.14E-08 | 1.32E-06 | 8.21E-07 | 8.21E-07 | 4.06E-07 |
| 1983 | 257314.18 | 4083539.47 | 1.09E-06 | 1.58E-05 | 1.16E-05 | 1.16E-05 | 6.48E-06 | 1.65E-07 | 2.40E-06 | 1.81E-06 | 1.81E-06 | 9.98E-07 | 8.99E-08 | 1.30E-06 | 8.07E-07 | 8.07E-07 | 4.00E-07 |
| 1984 | 257354.16 | 4083520.99 | 1.08E-06 | 1.56E-05 | 1.15E-05 | 1.15E-05 | 6.39E-06 | 1.63E-07 | 2.37E-06 | 1.79E-06 | 1.79E-06 | 9.84E-07 | 8.87E-08 | 1.28E-06 | 7.97E-07 | 7.97E-07 | 3.94E-07 |
| 1985 | 257394.15 | 4083502.52 | 1.07E-06 | 1.54E-05 | 1.14E-05 | 1.14E-05 | 6.33E-06 | 1.62E-07 | 2.35E-06 | 1.77E-06 | 1.77E-06 | 9.75E-07 | 8.78E-08 | 1.27E-06 | 7.89E-07 | 7.89E-07 | 3.91E-07 |
| 1986 | 257434.14 | 4083484.05 | 1.06E-06 | 1.54E-05 | 1.13E-05 | 1.13E-05 | 6.31E-06 | 1.61E-07 | 2.34E-06 | 1.77E-06 | 1.77E-06 | 9.71E-07 | 8.75E-08 | 1.27E-06 | 7.86E-07 | 7.86E-07 | 3.89E-07 |
| 1987 | 256057.58 | 4085032.89 | 3.50E-06 | 5.07E-05 | 3.74E-05 | 3.74E-05 | 2.08E-05 | 5.32E-07 | 7.72E-06 | 5.83E-06 | 5.83E-06 | 3.21E-06 | 2.89E-07 | 4.18E-06 | 2.59E-06 | 2.59E-06 | 1.28E-06 |
| 1988 | 256059.24 | 4085077.45 | 3.64E-06 

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1782 | 256863.94 | 4084960.11 | 6.81E-06 | 9.85E-05 | 7.26E-05 | 7.26E-05 | 4.05E-05 | 1.03E-06 | 1.50E-05 | 1.13E-05 | 1.13E-05 | 6.23E-06 | 5.61E-07 | 8.12E-06 | 5.04E-06 | 5.04E-06 | 2.50E-06 |
| 1783 | 256879.41 | 4084918.34 | 6.17E-06 | 8.92E-05 | 6.57E-05 | 6.57E-05 | 3.66E-05 | 9.36E-07 | 1.36E-05 | 1.03E-05 | 1.03E-05 | 5.64E-06 | 5.08E-07 | 7.35E-06 | 4.57E-06 | 4.57E-06 | 2.26E-06 |
| 1784 | 256894.88 | 4084876.57 | 5.60E-06 | 8.09E-05 | 5.97E-05 | 5.97E-05 | 3.33E-05 | 8.49E-07 | 1.23E-05 | 9.31E-06 | 9.31E-06 | 5.12E-06 | 4.61E-07 | 6.67E-06 | 4.14E-06 | 4.14E-06 | 2.05E-06 |
| 1785 | 256910.34 | 4084834.81 | 5.13E-06 | 7.42E-05 | 5.47E-05 | 5.47E-05 | 3.05E-05 | 7.78E-07 | 1.13E-05 | 8.54E-06 | 8.54E-06 | 4.69E-06 | 4.23E-07 | 6.11E-06 | 3.80E-06 | 3.80E-06 | 1.88E-06 |
| 1786 | 256925.81 | 4084793.04 | 4.74E-06 | 6.85E-05 | 5.05E-05 | 5.05E-05 | 2.81E-05 | 7.19E-07 | 1.04E-05 | 7.88E-06 | 7.88E-06 | 4.33E-06 | 3.90E-07 | 5.65E-06 | 3.51E-06 | 3.51E-06 | 1.74E-06 |
| 1787 | 256941.27 | 4084751.28 | 4.38E-06 | 6.33E-05 | 4.67E-06 | 4.67E-05 | 2.60E-05 | 6.64E-07 | 9.64E-06 | 7.29E-06 | 7.29E-06 | 4.01E-06 | 3.61E-07 | 5.22E-06 | 3.24E-06 | 3.24E-06 | 1.60E-06 |
| 1788 | 256956.74 | 4084709.51 | 4.05E-06 | 5.85E-05 | 4.31E-05 | 4.31E-05 | 2.41E-05 | 6.14E-07 | 8.92E-06 | 6.74E-06 | 6.74E-06 | 3.70E-06 | 3.34E-07 | 4.82E-06 | 3.00E-06 | 3.00E-06 | 1.48E-06 |
| 1789 | 256972.21 | 4084667.75 | 3.76E-06 | 5.43E-05 | 4.00E-05 | 4.00E-05 | 2.23E-05 | 5.70E-07 | 8.28E-06 | 6.25E-06 | 6.25E-06 | 3.44E-06 | 3.10E-07 | 4.46E-06 | 2.78E-06 | 2.78E-06 | 1.38E-06 |
| 1790 | 256987.67 | 4084625.98 | 3.51E-06 | 5.08E-05 | 3.75E-05 | 3.75E-05 | 2.09E-05 | 5.33E-07 | 7.74E-06 | 5.85E-06 | 5.85E-06 | 3.22E-06 | 2.90E-07 | 4.19E-06 | 2.60E-06 | 2.60E-06 | 1.29E-06 |
| 1791 | 257003.14 | 4084584.22 | 3.31E-06 | 4.78E-05 | 3.53E-05 | 3.53E-05 | 1.97E-05 | 5.02E-07 | 7.29E-06 | 5.50E-06 | 5.50E-06 | 3.03E-06 | 2.73E-07 | 3.94E-06 | 2.45E-06 | 2.45E-06 | 1.21E-06 |
| 1792 | 257018.6 | 4084542.45 | 3.12E-06 | 4.51E-05 | 3.32E-05 | 3.32E-05 | 1.85E-05 | 4.73E-07 | 6.87E-06 | 5.19E-06 | 5.19E-06 | 2.85E-06 | 2.57E-07 | 3.72E-06 | 2.31E-06 | 2.31E-06 | 1.14E-06 |
| 1793 | 257034.07 | 4084500.69 | 2.94E-06 | 4.26E-05 | 3.14E-05 | 3.14E-05 | 1.75E-05 | 4.47E-07 | 6.48E-06 | 4.90E-06 | 4.90E-06 | 2.69E-06 | 2.43E-07 | 3.51E-06 | 2.18E-06 | 2.18E-06 | 1.08E-06 |
| 1794 | 257062.02 | 4084470.46 | 2.87E-06 | 4.15E-05 | 3.06E-05 | 3.06E-05 | 1.71E-05 | 4.35E-07 | 6.32E-06 | 4.78E-06 | 4.78E-06 | 2.63E-06 | 2.36E-07 | 3.42E-06 | 2.12E-06 | 2.12E-06 | 1.05E-06 |
| 1795 | 257102.45 | 4084451.78 | 2.90E-06 | 4.19E-05 | 3.09E-05 | 3.09E-05 | 1.72E-05 | 4.40E-07 | 6.39E-06 | 4.83E-06 | 4.83E-06 | 2.65E-06 | 2.39E-07 | 3.46E-06 | 2.15E-06 | 2.15E-06 | 1.06E-06 |
| 1796 | 257142.88 | 4084433.11 | 2.95E-06 | 4.26E-05 | 3.14E-06 | 3.14E-05 | 1.75E-05 | 4.47E-07 | 6.49E-06 | 4.90E-06 | 4.90E-06 | 2.70E-06 | 2.43E-07 | 3.51E-06 | 2.18E-06 | 2.18E-06 | 1.08E-06 |
| 1797 | 257183.31 | 4084414.43 | 3.01E-06 | 4.35E-05 | 3.20E-05 | 3.20E-05 | 1.79E-05 | 4.56E-07 | 6.62E-06 | 5.00E-06 | 5.00E-06 | 2.75E-06 | 2.48E-07 | 3.58E-06 | 2.23E-06 | 2.23E-06 | 1.10E-06 |
| 1798 | 257223.74 | 4084395.75 | 3.06E-06 | 4.42E-05 | 3.26E-05 | 3.26E-05 | 1.82E-05 | 4.64E-07 | 6.74E-06 | 5.09E-06 | 5.09E-06 | 2.80E-06 | 2.52E-07 | 3.64E-06 | 2.26E-06 | 2.26E-06 | 1.12E-06 |
| 1799 | 257264.17 | 4084377.07 | 3.09E-06 | 4.47E-05 | 3.30E-05 | 3.30E-05 | 1.84E-05 | 4.69E-07 | 6.81E-06 | 5.15E-06 | 5.15E-06 | 2.83E-06 | 2.55E-07 | 3.69E-06 | 2.29E-06 | 2.29E-06 | 1.13E-06 |
| 1800 | 257304.61 | 4084358.39 | 3.10E-06 | 4.49E-05 | 3.31E-05 | 3.31E-05 | 1.85E-05 | 4.71E-07 | 6.84E-06 | 5.17E-06 | 5.17E-06 | 2.84E-06 | 2.56E-07 | 3.70E-06 | 2.30E-06 | 2.30E-06 | 1.14E-06 |
| 1801 | 257345.04 | 4084339.71 | 3.09E-06 | 4.46E-05 | 3.30E-05 | 3.30E-05 | 1.84E-05 | 4.70E-07 | 6.82E-06 | 5.15E-06 | 5.15E-06 | 2.83E-06 | 2.55E-07 | 3.69E-06 | 2.29E-06 | 2.29E-06 | 1.13E-06 |
| 1802 | 257385.47 | 4084321.04 | 3.07E-06 | 4.44E-05 | 3.27E-05 | 3.27E-05 | 1.83E-05 | 4.66E-07 | 6.77E-06 | 5.11E-06 | 5.11E-06 | 2.81E-06 | 2.53E-07 | 3.66E-06 | 2.27E-06 | 2.27E-06 | 1.13E-06 |
| 1803 | 257425.9 | 4084302.36 | 3.05E-06 | 4.41E-05 | 3.25E-05 | 3.25E-05 | 1.81E-05 | 4.63E-07 | 6.72E-06 | 5.08E-06 | 5.08E-06 | 2.79E-06 | 2.51E-07 | 3.64E-06 | 2.26E-06 | 2.26E-06 | 1.12E-06 |
| 1804 | 257466.33 | 4084283.68 | 3.04E-06 | 4.40E-05 | 3.24E-05 | 3.24E-05 | 1.81E-05 | 4.62E-07 | 6.70E-06 | 5.07E-06 | 5.07E-06 | 2.78E-06 | 2.51E-07 | 3.63E-06 | 2.25E-06 | 2.25E-06 | 1.12E-06 |
| 1805 | 256857.04 | 4085003.27 | 7.55E-06 | 1.09E-04 | 8.05E-05 | 8.05E-05 | 4.49E-05 | 1.15E-06 | 1.66E-05 | 1.26E-05 | 1.26E-05 | 6.91E-06 | 6.22E-07 | 9.00E-06 | 5.59E-06 | 5.59E-06 | 2.77E-06 |
| 1806 | 256858.69 | 4085047.83 | 8.29E-06 | 1.20E-04 | 8.83E-05 | 8.83E-05 | 4.93E-05 | 1.26E-06 | 1.83E-05 | 1.38E-05 | 1.38E-05 | 7.58E-06 | 6.83E-07 | 9.88E-06 | 6.14E-06 | 6.14E-06 | 3.04E-06 |
| 1807 | 256860.34 | 4085092.39 | 8.86E-06 | 1.28E-04 | 9.45E-05 | 9.45E-05 | 5.27E-05 | 1.34E-06 | 1.95E-05 | 1.47E-05 | 1.47E-05 | 8.11E-06 | 7.30E-07 | 1.06E-05 | 6.56E-06 | 6.56E-06 | 3.25E-06 |
| 1808 | 256861.99 | 4085136.96 | 9.28E-06 | 1.34E-04 | 9.90E-05 | 9.90E-05 | 5.52E-05 | 1.41E-06 | 2.05E-05 | 1.55E-05 | 1.55E-05 | 8.49E-06 | 7.65E-07 | 1.11E-05 | 6.87E-06 | 6.87E-06 | 3.40E-06 |
| 1809 | 256863.64 | 4085181.52 | 9.65E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.74E-05 | 1.47E-06 | 2.13E-05 | 1.61E-05 | 1.61E-06 | 8.83E-06 | 7.96E-07 | 1.15E-05 | 7.15E-06 | 7.15E-06 | 3.54E-06 |
| 1810 | 256664.04 | 4084967.61 | 5.37E-06 | 7.77E-05 | 5.73E-05 | 5.73E-05 | 3.19E-05 | 8.15E-07 | 1.18E-05 | 8.94E-06 | 8.94E-06 | 4.92E-06 | 4.43E-07 | 6.41E-06 | 3.98E-06 | 3.98E-06 | 1.97E-06 |
| 1811 | 256679.44 | 4084926.03 | 4.92E-06 | 7.12E-05 | 5.25E-05 | 5.25E-05 | 2.93E-05 | 7.47E-07 | 1.08E-05 | 8.20E-06 | 8.20E-06 | 4.51E-06 | 4.06E-07 | 5.87E-06 | 3.65E-06 | 3.65E-06 | 1.80E-06 |
| 1812 | 256694.83 | 4084884.46 | 4.51E-06 | 6.52E-05 | 4.81E-05 | 4.81E-05 | 2.68E-05 | 6.84E-07 | 9.94E-06 | 7.51E-06 | 7.51E-06 | 4.13E-06 | 3.72E-07 | 5.38E-06 | 3.34E-06 | 3.34E-06 | 1.65E-06 |
| 1813 | 258710.23 | 4084842.89 | 4.17E-06 | 6.03E-05 | 4.44E-05 | 4.44E-05 | 2.48E-05 | 6.33E-07 | 9.18E-06 | 6.94E-06 | 6.94E-06 | 3.81E-06 | 3.44E-07 | 4.97E-06 | 3.09E-06 | 3.09E-06 | 1.53E-06 |
| 1814 | 256725.62 | 4084801.32 | 3.89E-06 | 5.63E-05 | 4.15E-05 | 4.15E-05 | 2.31E-05 | 5.91E-07 | 8.58E-06 | 6.48E-06 | 6.48E-06 | 3.56E-06 | 3.21E-07 | 4.64E-06 | 2.88E-06 | 2.88E-06 | 1.43E-06 |
| 1815 | 256741.02 | 4084759.74 | 3.66E-06 | 5.30E-05 | 3.90E-05 | 3.90E-05 | 2.18E-05 | 5.56E-07 | 8.07E-06 | 6.09E-06 | 6.09E-06 | 3.35E-06 | 3.02E-07 | 4.37E-06 | 2.71E-06 | 2.71E-06 | 1.34E-06 |
| 1816 | 256756.41 | 4084718.17 | 3.44E-06 | 4.98E-05 | 3.67E-05 | 3.67E-05 | 2.04E-06 | 5.22E-07 | 7.58E-06 | 5.73E-06 | 5.73E-06 | 3.15E-06 | 2.84E-07 | 4.10E-06 | 2.55E-06 | 2.55E-06 | 1.26E-06 |
| 1817 | 256771.81 | 4084676.6 | 3.21E-06 | 4.65E-05 | 3.43E-05 | 3.43E-05 | 1.91E-05 | 4.88E-07 | 7.08E-06 | 5.35E-06 | 5.35E-06 | 2.94E-06 | 2.65E-07 | 3.83E-06 | 2.38E-06 | 2.38E-06 | 1.18E-06 |
| 1818 | 256787.2 | 4084635.02 | 2.99E-06 | 4.32E-05 | 3.18E-06 | 3.18E-05 | 1.77E-05 | 4.53E-07 | 6.58E-06 | 4.97E-06 | 4.97E-06 | 2.73E-06 | 2.46E-07 | 3.66E-06 | 2.21E-06 | 2.21E-06 | 1.09E-06 |
| 1819 | 256802.6 | 4084593.45 | 2.77E-06 | 4.01E-05 | 2.96E-05 | 2.96E-05 | 1.65E-06 | 4.21E-07 | 6.11E-06 | 4.62E-06 | 4.62E-06 | 2.54E-06 | 2.29E-07 | 3.31E-06 | 2.05E-06 | 2.05E-06 | 1.02E-06 |
| 1820 | 256817.99 | 4084551.88 | 2.60E-06 | 3.76E-05 | 2.77E-05 | 2.77E-05 | 1.55E-05 | 3.95E-07 | 5.73E-06 | 4.33E-06 | 4.33E-06 | 2.38E-06 | 2.14E-07 | 3.10E-06 | 1.93E-06 | 1.93E-06 | 9.53E-07 |
| 1821 | 256833.39 | 4084510.3 | 2.46E-06 | 3.56E-05 | 2.63E-05 | 2.63E-05 | 1.46E-05 | 3.74E-07 | 5.43E-06 | 4.10E-06 | 4.10E-06 | 2.25E-06 | 2.03E-07 | 2.94E-06 | 1.82E-06 | 1.82E-06 | 9.03E-07 |
| 1822 | 256848.78 | 4084468.73 | 2.35E-06 | 3.41E-05 | 2.51E-05 | 2.51E-05 | 1.40E-05 | 3.57E-07 | 5.19E-06 | 3.92E-06 | 3.92E-06 | 2.15E-06 | 1.94E-07 | 2.81E-06 | 1.74E-06 | 1.74E-06 | 8.63E-07 |
| 1823 | 256864.18 | 4084427.16 | 2.26E-06 | 3.27E-05 | 2.41E-05 | 2.41E-05 | 1.34E-05 | 3.43E-07 | 4.98E-06 | 3.76E-06 | 3.76E-06 | 2.07E-06 | 1.86E-07 | 2.69E-06 | 1.67E-06 | 1.67E-06 | 8.28E-07 |
| 1824 | 256879.57 | 4084385.58 | 2.17E-06 | 3.14E-05 | 2.32E-05 | 2.32E-05 | 1.29E-05 | 3.30E-07 | 4.79E-06 | 3.62E-06 | 3.62E-06 | 1.99E-06 | 1.79E-07 | 2.59E-06 | 1.61E-06 | 1.61E-06 | 7.97E-07 |
| 1825 | 256915.09 | 4084334.72 | 2.11E-06 | 3.05E-05 | 2.25E-05 | 2.25E-05 | 1.25E-05 | 3.20E-07 | 4.64E-06 | 3.51E-06 | 3.51E-06 | 1.93E-06 | 1.74E-07 | 2.51E-06 | 1.56E-06 | 1.56E-06 | 7.72E-07 |
| 1826 | 256955.33 | 4084316.12 | 2.13E-06 | 3.09E-05 | 2.27E-05 | 2.27E-06 | 1.27E-06 | 3.24E-07 | 4.70E-06 | 3.55E-06 | 3.55E-06 | 1.95E-06 | 1.76E-07 | 2.54E-06 | 1.58E-06 | 1.58E-06 | 7.82E-07 |
| 1827 | 256995.58 | 4084297.53 | 2.17E-06 | 3.14E-05 | 2.31E-05 | 2.31E-05 | 1.29E-05 | 3.29E-07 | 4.78E-06 | 3.61E-06 | 3.61E-06 | 1.98E-06 | 1.79E-07 | 2.58E-06 | 1.61E-06 | 1.61E-06 | 7.95E-07 |
| 1828 | 257035.82 | 4084278.94 | 2.21E-06 | 3.19E-05 | 2.35E-05 | 2.35E-05 | 1.31E-05 | 3.35E-07 | 4.87E-06 | 3.68E-06 | 3.68E-06 | 2.02E-06 | 1.82E-07 | 2.63E-06 | 1.64E-06 | 1.64E-06 | 8.10E-07 |
| 1829 | 257076.07 | 4084260.35 | 2.25E-06 | 3.25E-05 | 2.40E-05 | 2.40E-05 | 1.34E-05 | 3.41E-07 | 4.96E-06 | 3.75E-06 | 3.75E-06 | 2.06E-06 | 1.85E-07 | 2.68E-06 | 1.67E-06 | 1.67E-06 | 8.25E-07 |
| 1830 | 257116.31 | 4084241.75 | 2.28E-06 | 3.29E-05 | 2.43E-05 | 2.43E-05 | 1.35E-05 | 3.46E-07 | 5.02E-06 | 3.79E-06 | 3.79E-06 | 2.08E-06 | 1.88E-07 | 2.71E-06 | 1.69E-06 | 1.69E-06 | 8.35E-07 |
| 1831 | 257156.56 | 4084223.16 | 2.28E-06 | 3.30E-05 | 2.44E-05 | 2.44E-05 | 1.36E-05 | 3.47E-07 | 5.03E-06 | 3.80E-06 | 3.80E-06 | 2.09E-06 | 1.88E-07 | 2.72E-06 | 1.69E-06 | 1.69E-06 | 8.38E-07 |
| 1832 | 257196.8 | 4084204.57 | 2.27E-06 | 3.29E-05 | 2.42E-05 | 2.42E-05 | 1.35E-05 | 3.45E-07 | 5.01E-06 | 3.79E-06 | 3.79E-06 | 2.08E-06 | 1.87E-07 | 2.71E-06 | 1.68E-06 | 1.68E-06 | 8.34E-07 |
| 1833 | 257237.05 | 4084185.98 | 2.25E-06 | 3.25E-05 | 2.39E-05 | 2.39E-05 | 1.33E-05 | 3.41E-07 | 4.95E-06 | 3.74E-06 | 3.74E-06 | 2.06E-06 | 1.85E-07 | 2.68E-06 | 1.86E-06 | 1.86E-06 | 8.23E-07 |
| 1834 | 257277.29 | 4084167.38 | 2.21E-06 | 3.19E-05 | 2.35E-05 | 2.35E-05 | 1.31E-05 | 3.35E-07 | 4.87E-06 | 3.68E-06 | 3.68E-06 | 2.02E-06 | 1.82E-07 | 2.63E-06 | 1.64E-06 | 1.64E-06 | 8.10E-07 |
| 1835 | 257317.54 | 4084148.79 | 2.17E-06 | 3.14E-05 | 2.32E-06 | 2.32E-05 | 1.79E-05 | 3.30E-07 | 4.79E-06 | 3.62E-06 | 3.62E-06 | 1.99E-06 | 1.79E-07 | 2.59E-06 | 1.61E-06 | 1.61E-06 | 7.96E-07 |
| 1836 | 257357.78 | 4084130.2 | 2.15E-06 | 3.10E-05 | 2.29E-05 | 2.29E-05 | 1.28E-05 | 3.26E-07 | 4.73E-06 | 3.57E-06 | 3.57E-06 | 1.96E-06 | 1.77E-07 | 2.56E-06 | 1.59E-06 | 1.59E-06 | 7.86E-07 |
| 1837 | 257398.03 | 4084111.61 | 2.14E-06 | 3.09E-05 | 2.28E-05 | 2.28E-06 | 1.27E-05 | 3.24E-07 | 4.70E-06 | 3.55E-06 | 3.55E-06 | 1.95E-06 | 1.78E-07 | 2.55E-06 | 1.58E-06 | 1.58E-06 | 7.83E-07 |
| 1838 | 257438.27 | 4084093.01 | 2.14E-06 | 3.10E-05 | 2.28E-05 | 2.28E-05 | 1.27E-05 | 3.25E-07 | 4.72E-06 | 3.56E-06 | 3.56E-06 | 1.96E-06 | 1.77E-07 | 2.55E-06 | 1.59E-06 | 1.59E-06 | 7.85E-07 |
| 1839 | 257478.52 | 4084074.42 | 2.16E-06 | 3.13E-05 | 2.31E-05 | 2.31E-05 | 1.29E-05 | 3.28E-07 | 4.77E-06 | 3.60E-06 | 3.60E-06 | 1.98E-06 | 1.78E-07 | 2.58E-06 | 1.60E-06 | 1.60E-06 | 7.93E-07 |
| 1840 | 256657.17 | 4085010.67 | 5.84E-06 | 8.45E-05 | 6.23E-05 | 6.23E-05 | 3.47E-05 | 8.87E-07 | 1.29E-05 | 9.72E-06 | 9.72E-06 | 5.35E-06 | 4.82E-07 | 6.96E-06 | 4.33E-06 | 4.33E-06 | 2.14E-06 |
| 1841 | 256658.82 | 4085055.24 | 6.28E-06 | 9.09E-05 | 6.70E-05 | 6.70E-05 | 3.73E-05 | 9.53E-07 | 1.38E-05 | 1.05E-05 | 1.05E-05 | 5.75E-06 | 5.18E-07 | 7.49E-06 | 4.65E-06 | 4.65E-06 | 2.30E-06 |
| 1842 | 256660.47 | 4085099.8 | 6.59E-06 | 9.54E-05 | 7.03E-05 | 7.03E-05 | 3.92E-05 | 1.00E-06 | 1.45E-05 | 1.10E-05 | 1.10E-05 | 6.03E-06 | 5.44E-07 | 7.86E-06 | 4.88E-06 | 4.88E-06 | 2.42E-06 |
| 1843 | 256662.13 | 4085144.36 | 6.81E-06 | 9.84E-05 | 7.25E-05 | 7.25E-05 | 4.04E-05 | 1.03E-06 | 1.50E-05 | 1.13E-05 | 1.13E-05 | 6.23E-06 | 5.61E-07 | 8.11E-06 | 5.04E-06 | 5.04E-06 | 2.49E-06 |
| 1844 | 256662.95 | 4085166.64 | 6.89E-06 | 9.97E-05 | 7.35E-05 | 7.35E-05 | 4.10E-05 | 1.05E-06 | 1.52E-05 | 1.15E-05 | 1.15E-05 | 6.31E-06 | 5.68E-07 | 8.22E-06 | 5.10E-06 | 5.10E-06 | 2.53E-06 |
| 1845 | 256464.16 | 4084975.07 | 4.45E-06 | 6.44E-05 | 4.75E-05 | 4.75E-05 | 2.65E-05 | 6.76E-07 | 9.82E-06 | 7.41E-06 | 7.41E-06 | 4.08E-06 | 3.67E-07 | 5.31E-06 | 3.30E-06 | 3.30E-06 | 1.63E-06 |
| 1846 | 256479.51 | 4084933.62 | 4.13E-06 | 5.97E-05 | 4.40E-05 | 4.40E-05 | 2.45E-05 | 6.26E-07 | 9.09E-06 | 6.87E-06 | 6.87E-06 | 3.78E-06 | 3.40E-07 | 4.92E-06 | 3.06E-06 | 3.06E-06 | 1.51E-06 |
| 1847 | 256494.86 | 4084892.17 | 3.81E-06 | 5.51E-05 | 4.06E-05 | 4.06E-05 | 2.27E-05 | 5.78E-07 | 8.40E-06 | 6.34E-06 | 6.34E-06 | 3.49E-06 | 3.14E-07 | 4.54E-06 | 2.82E-06 | 2.82E-06 | 1.40E-06 |
| 1848 | 256510.21 | 4084850.72 | 3.53E-06 | 5.11E-05 | 3.77E-05 | 3.77E-05 | 2.10E-05 | 5.36E-07 | 7.78E-06 | 5.88E-06 | 5.88E-06 | 3.23E-06 | 2.91E-07 | 4.21E-06 | 2.62E-06 | 2.62E-06 | 1.29E-06 |
| 1849 | 256525.56 | 4084809.27 | 3.31E-06 | 4.79E-05 | 3.53E-05 | 3.53E-05 | 1.97E-05 | 5.02E-07 | 7.29E-06 | 5.51E-06 | 5.51E-06 | 3.03E-06 | 2.73E-07 | 3.95E-06 | 2.45E-06 | 2.45E-06 | 1.21E-06 |
| 1850 | 256540.91 | 4084767.82 | 3.13E-06 | 4.53E-05 | 3.34E-05 | 3.34E-05 | 1.86E-05 | 4.76E-07 | 6.90E-06 | 5.22E-06 | 5.22E-06 | 2.87E-06 | 2.58E-07 | 3.74E-06 | 2.32E-06 | 2.32E-06 | 1.15E-06 |
| 1851 | 256556.26 | 4084726.36 | 2.99E-06 | 4.32E-05 | 3.18E-05 | 3.18E-05 | 1.77E-05 | 4.53E-07 | 6.58E-06 | 4.97E-06 | 4.97E-06 | 2.73E-06 | 2.46E-07 | 3.56E-06 | 2.21E-06 | 2.21E-06 | 1.09E-06 |
| 1852 | 256571.61 | 4084684.91 | 2.85E-06 | 4.12E-05 | 3.03E-05 | 3.03E-05 | 1.69E-05 | 4.32E-07 | 6.27E-06 | 4.74E-06 | 4.74E-06 | 2.60E-06 | 2.35E-07 | 3.39E-06 | 2.11E-06 | 2.11E-06 | 1.04E-06 |
| 1853 | 256586.96 | 4084643.46 | 2.69E-06 | 3.90E-05 | 2.87E-05 | 2.87E-05 | 1.60E-05 | 4.09E-07 | 5.94E-06 | 4.49E-06 | 4.49E-06 | 2.47E-06 | 2.22E-07 | 3.21E-06 | 2.00E-06 | 2.00E-06 | 9.88E-07 |
| 1854 | 256602.31 | 4084602.01 | 2.53E-06 | 3.65E-05 | 2.69E-05 | 2.69E-06 | 1.50E-05 | 3.83E-07 | 5.57E-06 | 4.21E-06 | 4.21E-06 | 2.31E-06 | 2.08E-07 | 3.01E-06 | 1.87E-06 | 1.87E-06 | 9.26E-07 |
| 1855 | 256617.66 | 4084560.56 | 2.35E-06 | 3.40E-05 | 2.51E-05 | 2.51E-05 | 1.40E-05 | 3.57E-07 | 5.18E-06 | 3.91E-06 | 3.91E-06 | 2.15E-06 | 1.94E-07 | 2.80E-06 | 1.74E-06 | 1.74E-06 | 8.62E-07 |
| 1856 | 256633.01 | 4084519.11 | 2.18E-06 | 3.16E-05 | 2.33E-05 | 2.33E-05 | 1.30E-05 | 3.31E-07 | 4.81E-06 | 3.63E-06 | 3.63E-06 | 2.00E-06 | 1.80E-07 | 2.60E-06 | 1.62E-06 | 1.62E-06 | 8.00E-07 |
| 1857 | 256648.36 | 4084477.66 | 2.04E-06 | 2.95E-05 | 2.17E-05 | 2.17E-05 | 1.21E-05 | 3.09E-07 | 4.49E-06 | 3.39E-06 | 3.39E-06 | 1.87E-06 | 1.68E-07 | 2.43E-06 | 1.51E-06 | 1.51E-06 | 7.47E-07 |
| 1858 | 256663.71 | 4084436.2 | 1.93E-06 | 2.79E-05 | 2.06E-05 | 2.06E-05 | 1.15E-05 | 2.93E-07 | 4.26E-06 | 3.22E-06 | 3.22E-06 | 1.77E-06 | 1.59E-07 | 2.30E-06 | 1.43E-06 | 1.43E-06 | 7.08E-07 |
| 1859 | 256679.06 | 4084394.75 | 1.86E-06 | 2.69E-05 | 1.98E-05 | 1.98E-05 | 1.10E-05 | 2.82E-07 | 4.09E-06 | 3.09E-06 | 3.09E-06 | 1.70E-06 | 1.53E-07 | 2.21E-06 | 1.37E-06 | 1.37E-06 | 6.81E-07 |
| 1860 | 256694.41 | 4084353.3 | 1.80E-06 | 2.61E-05 | 1.92E-05 | 1.92E-05 | 1.07E-05 | 2.74E-07 | 3.97E-06 | 3.00E-06 | 3.00E-06 | 1.65E-06 | 1.49E-07 | 2.15E-06 | 1.34E-06 | 1.34E-06 | 6.61E-07 |
| 1861 | 256709.76 | 4084311.85 | 1.76E-06 | 2.55E-05 | 1.88E-05 | 1.88E-05 | 1.05E-05 | 2.67E-07 | 3.88E-06 | 2.93E-06 | 2.93E-06 | 1.61E-06 | 1.45E-07 | 2.10E-06 | 1.31E-06 | 1.31E-06 | 6.46E-07 |
| 1862 | 256725.11 | 4084270.4 | 1.73E-06 | 2.50E-05 | 1.84E-05 | 1.84E-05 | 1.03E-05 | 2.62E-07 | 3.80E-06 | 2.87E-06 | 2.87E-06 | 1.58E-06 | 1.42E-07 | 2.06E-06 | 1.28E-06 | 1.28E-06 | 6.32E-07 |
| 1863 | 256740.46 | 4084228.95 | 1.69E-06 | 2.44E-05 | 1.80E-05 | 1.80E-05 | 1.00E-05 | 2.56E-07 | 3.72E-06 | 2.81E-06 | 2.81E-06 | 1.55E-06 | 1.39E-07 | 2.01E-06 | 1.25E-06 | 1.25E-06 | 6.19E-07 |
| 1864 | 256768.19 | 4084198.95 | 1.68E-06 | 2.43E-05 | 1.79E-05 | 1.79E-05 | 1.00E-05 | 2.55E-07 | 3.71E-06 | 2.80E-06 | 2.80E-06 | 1.54E-06 | 1.39E-07 | 2.01E-06 | 1.25E-06 | 1.25E-06 | 6.17E-07 |
| 1865 | 256808.32 | 4084180.41 | 1.70E-06 | 2.46E-05 | 1.81E-05 | 1.81E-05 | 1.01E-05 | 2.58E-07 | 3.75E-06 | 2.83E-06 | 2.83E-06 | 1.56E-06 | 1.40E-07 | 2.03E-06 | 1.26E-06 | 1.26E-06 | 6.23E-07 |
| 1866 | 256848.45 | 4084161.88 | 1.72E-06 | 2.49E-05 | 1.84E-05 | 1.84E-05 | 1.02E-05 | 2.62E-07 | 3.80E-06 | 2.87E-06 | 2.87E-06 | 1.58E-06 | 1.42E-07 | 2.05E-06 | 1.28E-06 | 1.28E-06 | 6.32E-07 |
| 1867 | 256888.58 | 4084143.34 | 1.75E-06 | 2.53E-05 | 1.86E-05 | 1.86E-05 | 1.04E-05 | 2.65E-07 | 3.85E-06 | 2.91E-06 | 2.91E-06 | 1.60E-06 | 1.44E-07 | 2.08E-06 | 1.29E-06 | 1.29E-06 | 6.40E-07 |
| 1868 | 256928.7 | 4084124.8 | 1.77E-06 | 2.56E-05 | 1.89E-05 | 1.89E-05 | 1.05E-05 | 2.69E-07 | 3.90E-06 | 2.95E-06 | 2.95E-06 | 1.62E-06 | 1.46E-07 | 2.11E-06 | 1.31E-06 | 1.31E-06 | 6.49E-07 |
| 1869 | 256968.83 | 4084106.26 | 1.79E-06 | 2.58E-05 | 1.90E-05 | 1.90E-05 | 1.06E-05 | 2.71E-07 | 3.94E-06 | 2.97E-06 | 2.97E-06 | 1.64E-06 | 1.47E-07 | 2.13E-06 | 1.32E-06 | 1.32E-06 | 6.55E-07 |
| 1870 | 257008.96 | 4084087.72 | 1.79E-06 | 2.59E-05 | 1.91E-05 | 1.91E-05 | 1.07E-05 | 2.72E-07 | 3.95E-06 | 2.98E-06 | 2.98E-06 | 1.64E-06 | 1.48E-07 | 2.14E-06 | 1.33E-06 | 1.33E-06 | 6.57E-07 |
| 1871 | 257049.08 | 4084069.19 | 1.79E-06 | 2.58E-05 | 1.90E-05 | 1.90E-05 | 1.06E-05 | 2.71E-07 | 3.94E-06 | 2.97E-06 | 2.97E-06 | 1.64E-06 | 1.47E-07 | 2.13E-06 | 1.32E-06 | 1.32E-06 | 6.55E-07 |
| 1872 | 257089.21 | 4084050.65 | 1.77E-06 | 2.56E-05 | 1.89E-05 | 1.89E-05 | 1.05E-05 | 2.69E-07 | 3.90E-06 | 2.95E-06 | 2.95E-06 | 1.62E-06 | 1.46E-07 | 2.11E-06 | 1.31E-06 | 1.31E-06 | 6.49E-07 |
| 1873 | 257129.34 | 4084032.11 | 1.75E-06 | 2.53E-05 | 1.86E-05 | 1.86E-05 | 1.04E-05 | 2.65E-07 | 3.85E-06 | 2.91E-06 | 2.91E-06 | 1.60E-06 | 1.44E-07 | 2.08E-06 | 1.29E-06 | 1.29E-06 | 6.40E-07 |
| 1874 | 257169.47 | 4084013.57 | 1.72E-06 | 2.49E-05 | 1.83E-05 | 1.83E-05 | 1.02E-05 | 2.61E-07 | 3.79E-06 | 2.86E-06 | 2.86E-06 | 1.57E-06 | 1.42E-07 | 2.05E-06 | 1.27E-06 | 1.27E-06 | 6.30E-07 |
| 1875 | 257209.59 | 4083995.03 | 1.69E-06 | 2.45E-05 | 1.80E-06 | 1.80E-05 | 1.01E-05 | 2.57E-07 | 3.73E-06 | 2.82E-06 | 2.82E-06 | 1.55E-06 | 1.40E-07 | 2.02E-06 | 1.25E-06 | 1.25E-06 | 6.20E-07 |
| 1876 | 257249.72 | 4083976.5 | 1.67E-06 | 2.42E-05 | 1.78E-05 | 1.78E-05 | 9.93E-06 | 2.53E-07 | 3.68E-06 | 2.78E-06 | 2.78E-06 | 1.53E-06 | 1.38E-07 | 1.99E-06 | 1.24E-06 | 1.24E-06 | 6.12E-07 |
| 1877 | 257289.85 | 4083957.96 | 1.66E-06 | 2.39E-05 | 1.77E-05 | 1.77E-05 | 9.84E-06 | 2.51E-07 | 3.65E-06 | 2.76E-06 | 2.76E-06 | 1.52E-06 | 1.36E-07 | 1.97E-06 | 1.23E-06 | 1.23E-06 | 6.07E-07 |
| 1878 | 257379.97 | 4083939.42 | 1.65E-06 | 2.38E-05 | 1.76E-05 | 1.76E-05 | 9.79E-06 | 2.50E-07 | 3.63E-06 | 2.74E-06 | 2.74E-06 | 1.51E-06 | 1.36E-07 | 1.96E-06 | 1.22E-06 | 1.22E-06 | 6.04E-07 |
| 1879 | 257370.1 | 4083920.88 | 1.65E-06 | 2.38E-05 | 1.76E-05 | 1.76E-05 | 9.79E-06 | 2.50E-07 | 3.63E-06 | 2.74E-06 | 2.74E-06 | 1.51E-06 | 1.36E-07 | 1.96E-06 | 1.22E-06 | 1.22E-06 | 6.04E-07 |
| 1880 | 257410.23 | 4083902.34 | 1.65E-06 | 2.39E-05 | 1.76E-05 | 1.76E-05 | 9.82E-06 | 2.51E-07 | 3.64E-06 | 2.75E-06 | 2.75E-06 | 1.51E-06 | 1.36E-07 | 1.97E-06 | 1.22E-06 | 1.22E-06 | 6.05E-07 |
| 1881 | 257450.36 | 4083883.81 | 1.66E-06 | 2.40E-05 | 1.77E-05 | 1.77E-05 | 9.86E-06 | 2.52E-07 | 3.66E-06 | 2.76E-06 | 2.76E-06 | 1.52E-06 | 1.37E-07 | 1.98E-06 | 1.23E-06 | 1.23E-06 | 6.08E-07 |
| 1882 | 256457.31 | 4085018.08 | 4.77E-06 | 6.91E-05 | 5.09E-05 | 5.09E-05 | 2.84E-05 | 7.25E-07 | 1.05E-05 | 7.95E-06 | 7.95E-06 | 4.37E-06 | 3.94E-07 | 5.69E-06 | 3.54E-06 | 3.54E-06 | 1.75E-06 |
| 1883 | 256458.96 | 4085062.64 | 5.06E-06

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1677 | 257413.26 | 4085161.15 | 9.78E-05 | 1.41E-03 | 1.04E-03 | 1.04E-03 | 5.81E-04 | 1.48E-05 | 2.16E-04 | 1.63E-04 | 1.63E-04 | 8.95E-05 | 8.06E-06 | 1.17E-04 | 7.24E-05 | 7.24E-05 | 3.59E-05 |
| 1678 | 257363.44 | 4084942.02 | 2.14E-05 | 3.10E-04 | 2.28E-04 | 2.28E-04 | 1.27E-04 | 3.25E-06 | 4.72E-05 | 3.56E-05 | 3.56E-05 | 1.96E-05 | 1.76E-06 | 2.55E-05 | 1.58E-05 | 1.58E-05 | 7.84E-06 |
| 1679 | 257378.59 | 4084901.11 | 1.79E-05 | 2.59E-04 | 1.91E-04 | 1.91E-04 | 1.06E-04 | 2.72E-06 | 3.94E-05 | 2.98E-05 | 2.98E-05 | 1.64E-05 | 1.48E-06 | 2.13E-05 | 1.33E-05 | 1.33E-05 | 6.56E-06 |
| 1680 | 257393.74 | 4084860.19 | 1.52E-05 | 2.20E-04 | 1.62E-04 | 1.62E-04 | 9.06E-05 | 2.31E-06 | 3.36E-05 | 2.54E-05 | 2.54E-05 | 1.39E-05 | 1.26E-06 | 1.82E-05 | 1.13E-05 | 1.13E-05 | 5.59E-06 |
| 1681 | 257428.7 | 4084810.13 | 1.34E-05 | 1.93E-04 | 1.42E-04 | 1.42E-04 | 7.94E-05 | 2.03E-06 | 2.94E-05 | 2.22E-05 | 2.22E-05 | 1.22E-05 | 1.10E-06 | 1.59E-05 | 9.90E-06 | 9.90E-06 | 4.90E-06 |
| 1682 | 257468.3 | 4084791.83 | 1.38E-05 | 1.99E-04 | 1.47E-04 | 1.47E-04 | 8.19E-05 | 2.09E-06 | 3.04E-05 | 2.29E-05 | 2.29E-05 | 1.26E-05 | 1.14E-06 | 1.64E-05 | 1.02E-05 | 1.02E-05 | 5.05E-06 |
| 1683 | 257507.91 | 4084773.54 | 1.42E-05 | 2.06E-04 | 1.52E-04 | 1.52E-04 | 8.46E-05 | 2.16E-06 | 3.14E-05 | 2.37E-05 | 2.37E-05 | 1.30E-05 | 1.17E-06 | 1.70E-05 | 1.05E-05 | 1.05E-05 | 5.22E-06 |
| 1684 | 257356.69 | 4084984.76 | 2.69E-05 | 3.89E-04 | 2.87E-04 | 2.87E-04 | 1.60E-04 | 4.08E-06 | 5.93E-05 | 4.48E-05 | 4.48E-05 | 2.46E-05 | 2.22E-06 | 3.21E-05 | 1.99E-05 | 1.99E-05 | 9.86E-06 |
| 1685 | 257358.34 | 4085029.32 | 3.49E-05 | 5.04E-04 | 3.72E-04 | 3.72E-04 | 2.07E-04 | 5.29E-06 | 7.68E-05 | 5.80E-05 | 5.80E-05 | 3.19E-05 | 2.87E-06 | 4.16E-05 | 2.58E-05 | 2.58E-05 | 1.28E-05 |
| 1686 | 257359.99 | 4085073.88 | 4.46E-05 | 6.45E-04 | 4.75E-04 | 4.75E-04 | 2.65E-04 | 6.77E-06 | 9.82E-05 | 7.42E-05 | 7.42E-05 | 4.08E-05 | 3.68E-06 | 5.32E-05 | 3.30E-05 | 3.30E-05 | 1.63E-05 |
| 1687 | 257361.65 | 4085118.44 | 5.57E-05 | 8.06E-04 | 5.94E-04 | 5.94E-04 | 3.31E-04 | 8.46E-06 | 1.23E-04 | 9.28E-05 | 9.28E-05 | 5.10E-05 | 4.60E-06 | 6.65E-05 | 4.13E-05 | 4.13E-05 | 2.04E-05 |
| 1688 | 257363.3 | 4085163.01 | 6.59E-05 | 9.53E-04 | 7.03E-04 | 7.03E-04 | 3.92E-04 | 1.00E-05 | 1.45E-04 | 1.10E-04 | 1.10E-04 | 6.03E-05 | 5.43E-06 | 7.88E-05 | 4.88E-05 | 4.88E-05 | 2.42E-05 |
| 1689 | 257313.27 | 4084944.44 | 1.78E-05 | 2.57E-04 | 1.90E-04 | 1.90E-04 | 1.06E-04 | 2.70E-06 | 3.92E-05 | 2.96E-05 | 2.96E-05 | 1.63E-05 | 1.47E-06 | 2.12E-05 | 1.32E-05 | 1.32E-05 | 6.52E-06 |
| 1690 | 257328 | 4084904.66 | 1.52E-05 | 2.20E-04 | 1.62E-04 | 1.62E-04 | 9.04E-05 | 2.31E-06 | 3.35E-05 | 2.53E-05 | 2.53E-05 | 1.39E-05 | 1.25E-06 | 1.81E-05 | 1.13E-05 | 1.13E-05 | 5.58E-06 |
| 1691 | 257342.73 | 4084864.88 | 1.32E-05 | 1.91E-04 | 1.41E-04 | 1.41E-04 | 7.85E-05 | 2.00E-06 | 2.91E-05 | 2.20E-05 | 2.20E-05 | 1.21E-05 | 1.09E-06 | 1.57E-05 | 9.78E-06 | 9.78E-06 | 4.84E-06 |
| 1692 | 257357.46 | 4084825.11 | 1.16E-05 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.91E-05 | 1.76E-06 | 2.56E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.58E-07 | 1.39E-05 | 8.60E-06 | 8.60E-06 | 4.26E-06 |
| 1693 | 257391.44 | 4084776.44 | 1.04E-05 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 6.19E-05 | 1.58E-06 | 2.30E-05 | 1.73E-05 | 1.73E-05 | 9.53E-06 | 8.59E-07 | 1.24E-05 | 7.72E-06 | 7.72E-06 | 3.82E-06 |
| 1694 | 257429.94 | 4084758.65 | 1.07E-05 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.34E-05 | 1.62E-06 | 2.35E-05 | 1.77E-05 | 1.77E-05 | 9.76E-06 | 8.79E-07 | 1.27E-05 | 7.90E-06 | 7.90E-06 | 3.91E-06 |
| 1695 | 257488.45 | 4084740.86 | 1.09E-05 | 1.58E-04 | 1.16E-04 | 1.16E-04 | 6.48E-05 | 1.65E-06 | 2.40E-05 | 1.81E-05 | 1.81E-05 | 9.97E-06 | 8.98E-07 | 1.30E-05 | 8.07E-06 | 8.07E-06 | 3.99E-06 |
| 1696 | 257506.96 | 4084723.07 | 1.12E-05 | 1.62E-04 | 1.19E-04 | 1.19E-04 | 6.65E-05 | 1.70E-06 | 2.46E-05 | 1.88E-05 | 1.88E-05 | 1.02E-05 | 9.22E-07 | 1.33E-05 | 8.28E-06 | 8.28E-06 | 4.10E-06 |
| 1697 | 257306.73 | 4084988.61 | 2.17E-05 | 3.13E-04 | 2.31E-04 | 2.31E-04 | 1.29E-04 | 3.29E-06 | 4.77E-05 | 3.61E-05 | 3.61E-05 | 1.98E-05 | 1.79E-06 | 2.58E-05 | 1.60E-05 | 1.60E-05 | 7.94E-06 |
| 1698 | 257307.55 | 4085008.89 | 2.42E-05 | 3.50E-04 | 2.58E-04 | 2.58E-04 | 1.44E-04 | 3.68E-06 | 5.34E-05 | 4.03E-05 | 4.03E-05 | 2.22E-05 | 2.00E-06 | 2.89E-05 | 1.79E-05 | 1.79E-05 | 8.88E-06 |
| 1699 | 257309.2 | 4085053.45 | 2.98E-05 | 4.31E-04 | 3.18E-04 | 3.18E-04 | 1.77E-04 | 4.52E-06 | 8.56E-05 | 4.96E-05 | 4.96E-05 | 2.73E-05 | 2.46E-06 | 3.55E-05 | 2.21E-05 | 2.21E-05 | 1.09E-05 |
| 1700 | 257310.85 | 4085098.01 | 3.62E-05 | 5.24E-04 | 3.86E-04 | 3.86E-04 | 2.15E-04 | 5.49E-06 | 7.98E-05 | 6.03E-05 | 6.03E-05 | 3.31E-05 | 2.98E-06 | 4.32E-05 | 2.68E-05 | 2.68E-05 | 1.33E-05 |
| 1701 | 257312.51 | 4085142.58 | 4.33E-05 | 6.27E-04 | 4.62E-04 | 4.62E-04 | 2.58E-04 | 6.58E-06 | 9.55E-05 | 7.21E-05 | 7.21E-05 | 3.96E-05 | 3.57E-06 | 5.17E-05 | 3.21E-05 | 3.21E-05 | 1.59E-05 |
| 1702 | 257263.17 | 4084946.65 | 1.52E-05 | 2.19E-04 | 1.62E-04 | 1.62E-04 | 9.01E-05 | 2.30E-06 | 3.34E-05 | 2.52E-05 | 2.52E-05 | 1.39E-05 | 1.25E-06 | 1.81E-05 | 1.12E-05 | 1.12E-05 | 5.56E-06 |
| 1703 | 257277.63 | 4084907.6 | 1.32E-05 | 1.90E-04 | 1.40E-04 | 1.40E-04 | 7.82E-05 | 2.00E-06 | 2.90E-05 | 2.19E-05 | 2.19E-05 | 1.20E-05 | 1.08E-06 | 1.57E-05 | 9.74E-06 | 9.74E-06 | 4.82E-06 |
| 1704 | 257292.09 | 4084868.54 | 1.16E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.87E-05 | 1.75E-06 | 2.55E-05 | 1.92E-05 | 1.92E-05 | 1.06E-05 | 9.53E-07 | 1.38E-05 | 8.56E-06 | 8.56E-06 | 4.24E-06 |
| 1705 | 257306.55 | 4084829.49 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.12E-05 | 1.56E-06 | 2.27E-05 | 1.71E-05 | 1.71E-05 | 9.42E-06 | 8.49E-07 | 1.23E-05 | 7.63E-06 | 7.63E-06 | 3.78E-06 |
| 1706 | 257321.01 | 4084790.44 | 9.25E-06 | 1.34E-04 | 9.86E-05 | 9.86E-05 | 5.50E-05 | 1.40E-06 | 2.04E-05 | 1.54E-05 | 1.54E-05 | 8.47E-06 | 7.63E-07 | 1.10E-05 | 6.85E-06 | 6.85E-06 | 3.39E-06 |
| 1707 | 257354.38 | 4084742.65 | 8.42E-06 | 1.22E-04 | 8.98E-05 | 8.98E-05 | 5.00E-05 | 1.28E-06 | 1.86E-05 | 1.40E-05 | 1.40E-05 | 7.70E-06 | 6.94E-07 | 1.00E-05 | 6.24E-06 | 6.24E-06 | 3.09E-06 |
| 1708 | 257392.18 | 4084725.19 | 8.57E-06 | 1.24E-04 | 9.14E-05 | 9.14E-05 | 5.10E-05 | 1.30E-06 | 1.89E-05 | 1.43E-05 | 1.43E-05 | 7.85E-06 | 7.07E-07 | 1.02E-05 | 6.35E-06 | 6.35E-06 | 3.14E-06 |
| 1709 | 257429.99 | 4084707.72 | 8.71E-06 | 1.26E-04 | 9.29E-05 | 9.29E-06 | 5.18E-05 | 1.32E-06 | 1.92E-05 | 1.45E-05 | 1.45E-05 | 7.97E-06 | 7.18E-07 | 1.04E-05 | 6.45E-06 | 6.45E-06 | 3.19E-06 |
| 1710 | 257467.8 | 4084690.25 | 8.86E-06 | 1.28E-04 | 9.45E-05 | 9.45E-05 | 5.27E-05 | 1.35E-06 | 1.95E-05 | 1.48E-05 | 1.48E-05 | 8.11E-06 | 7.31E-07 | 1.06E-05 | 6.56E-06 | 6.56E-06 | 3.25E-06 |
| 1711 | 257505.6 | 4084672.79 | 9.07E-06 | 1.31E-04 | 9.67E-05 | 9.67E-05 | 5.39E-05 | 1.38E-06 | 2.00E-05 | 1.51E-05 | 1.51E-05 | 8.30E-06 | 7.47E-07 | 1.08E-05 | 6.71E-06 | 6.71E-06 | 3.32E-06 |
| 1712 | 257256.76 | 4084988.46 | 1.81E-05 | 2.61E-04 | 1.93E-04 | 1.93E-04 | 1.07E-04 | 2.74E-06 | 3.98E-05 | 3.01E-05 | 3.01E-05 | 1.65E-05 | 1.49E-06 | 2.15E-05 | 1.34E-05 | 1.34E-05 | 6.62E-06 |
| 1713 | 257258.41 | 4085033.02 | 2.18E-05 | 3.15E-04 | 2.33E-04 | 2.33E-04 | 1.30E-04 | 3.31E-06 | 4.81E-05 | 3.63E-05 | 3.63E-05 | 2.00E-05 | 1.80E-06 | 2.60E-05 | 1.62E-05 | 1.62E-05 | 8.00E-06 |
| 1714 | 257260.06 | 4085077.58 | 2.58E-05 | 3.72E-04 | 2.75E-04 | 2.75E-04 | 1.53E-04 | 3.91E-06 | 5.67E-05 | 4.29E-05 | 4.29E-05 | 2.36E-05 | 2.12E-06 | 3.07E-05 | 1.91E-05 | 1.91E-05 | 9.44E-06 |
| 1715 | 257261.71 | 4085122.15 | 3.01E-05 | 4.35E-04 | 3.21E-04 | 3.21E-04 | 1.79E-04 | 4.57E-06 | 6.63E-05 | 5.01E-05 | 5.01E-05 | 2.75E-05 | 2.48E-06 | 3.59E-05 | 2.23E-05 | 2.23E-05 | 1.10E-05 |
| 1716 | 257263.37 | 4085166.71 | 3.49E-05 | 5.05E-04 | 3.73E-04 | 3.73E-04 | 2.08E-04 | 5.30E-06 | 7.70E-05 | 5.82E-05 | 5.82E-05 | 3.20E-05 | 2.88E-06 | 4.17E-05 | 2.59E-05 | 2.59E-05 | 1.28E-05 |
| 1717 | 257163.58 | 4084949.42 | 1.16E-05 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.90E-05 | 1.76E-06 | 2.56E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.57E-07 | 1.38E-05 | 8.60E-06 | 8.60E-06 | 4.26E-06 |
| 1718 | 257178.73 | 4084908.51 | 1.02E-05 | 1.48E-04 | 1.09E-04 | 1.09E-04 | 6.06E-05 | 1.55E-06 | 2.25E-05 | 1.70E-05 | 1.70E-05 | 9.33E-06 | 8.41E-07 | 1.22E-05 | 7.55E-06 | 7.55E-06 | 3.74E-06 |
| 1719 | 257193.88 | 4084867.6 | 9.03E-06 | 1.31E-04 | 9.62E-05 | 9.62E-06 | 5.37E-05 | 1.37E-06 | 1.99E-05 | 1.50E-05 | 1.50E-05 | 8.26E-06 | 7.44E-07 | 1.08E-05 | 6.69E-06 | 6.69E-06 | 3.31E-06 |
| 1720 | 257209.03 | 4084826.68 | 8.11E-06 | 1.17E-04 | 8.65E-05 | 8.65E-06 | 4.82E-05 | 1.23E-06 | 1.79E-05 | 1.35E-05 | 1.35E-05 | 7.42E-06 | 6.69E-07 | 9.67E-06 | 6.01E-06 | 6.01E-06 | 2.97E-06 |
| 1721 | 257224.18 | 4084785.77 | 7.36E-06 | 1.06E-04 | 7.85E-05 | 7.85E-05 | 4.37E-05 | 1.12E-06 | 1.62E-05 | 1.23E-05 | 1.23E-05 | 6.74E-06 | 6.07E-07 | 8.78E-06 | 5.45E-06 | 5.45E-06 | 2.70E-06 |
| 1722 | 257239.33 | 4084744.86 | 6.73E-06 | 9.73E-05 | 7.17E-05 | 7.17E-05 | 4.00E-05 | 1.02E-06 | 1.48E-05 | 1.12E-05 | 1.12E-05 | 6.15E-06 | 5.54E-07 | 8.02E-06 | 4.98E-06 | 4.98E-06 | 2.47E-06 |
| 1723 | 257254.48 | 4084703.95 | 6.15E-06 | 8.89E-05 | 6.55E-05 | 6.55E-05 | 3.65E-05 | 9.33E-07 | 1.35E-05 | 1.02E-05 | 1.02E-05 | 5.63E-06 | 5.07E-07 | 7.33E-06 | 4.55E-06 | 4.55E-06 | 2.25E-06 |
| 1724 | 257281.86 | 4084674.34 | 5.91E-06 | 8.55E-05 | 6.30E-05 | 6.30E-05 | 3.51E-05 | 8.97E-07 | 1.30E-05 | 9.84E-06 | 9.84E-06 | 5.41E-06 | 4.87E-07 | 7.05E-06 | 4.38E-06 | 4.38E-06 | 2.17E-06 |
| 1725 | 257321.47 | 4084656.04 | 5.99E-06 | 8.67E-05 | 6.39E-05 | 6.39E-05 | 3.56E-05 | 9.09E-07 | 1.32E-05 | 9.97E-06 | 9.97E-06 | 5.48E-06 | 4.94E-07 | 7.14E-06 | 4.44E-06 | 4.44E-06 | 2.20E-06 |
| 1726 | 257361.07 | 4084637.75 | 6.07E-06 | 8.78E-05 | 6.47E-05 | 6.47E-05 | 3.61E-05 | 9.21E-07 | 1.34E-05 | 1.01E-05 | 1.01E-05 | 5.56E-06 | 5.00E-07 | 7.24E-06 | 4.50E-06 | 4.50E-06 | 2.23E-06 |
| 1727 | 257400.68 | 4084619.45 | 6.15E-06 | 8.89E-05 | 6.55E-05 | 6.55E-05 | 3.65E-05 | 9.33E-07 | 1.35E-05 | 1.02E-05 | 1.02E-05 | 5.63E-06 | 5.07E-07 | 7.33E-06 | 4.55E-06 | 4.55E-06 | 2.25E-06 |
| 1728 | 257440.28 | 4084501.15 | 6.23E-06 | 9.01E-05 | 6.64E-06 | 6.64E-05 | 3.70E-05 | 9.45E-07 | 1.37E-05 | 1.04E-05 | 1.04E-05 | 5.70E-06 | 5.13E-07 | 7.43E-06 | 4.61E-06 | 4.61E-06 | 2.28E-06 |
| 1729 | 257479.89 | 4084582.85 | 6.34E-06 | 9.18E-05 | 6.76E-05 | 6.76E-05 | 3.77E-05 | 9.63E-07 | 1.40E-05 | 1.06E-05 | 1.06E-05 | 5.81E-06 | 5.23E-07 | 7.56E-06 | 4.70E-06 | 4.70E-06 | 2.33E-06 |
| 1730 | 257156.83 | 4084992.16 | 1.35E-05 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.00E-05 | 2.04E-06 | 2.97E-05 | 2.24E-05 | 2.24E-05 | 1.23E-05 | 1.11E-06 | 1.60E-05 | 9.97E-06 | 9.97E-06 | 4.94E-06 |
| 1731 | 257158.48 | 4085036.72 | 1.56E-06 | 2.26E-04 | 1.67E-04 | 1.67E-04 | 9.30E-05 | 2.37E-06 | 3.45E-05 | 2.60E-05 | 2.60E-05 | 1.43E-05 | 1.29E-06 | 1.87E-05 | 1.16E-05 | 1.16E-05 | 5.73E-06 |
| 1732 | 257160.13 | 4085081.29 | 1.77E-05 | 2.56E-04 | 1.89E-04 | 1.89E-04 | 1.05E-04 | 2.69E-06 | 3.90E-05 | 2.95E-05 | 2.95E-05 | 1.62E-05 | 1.46E-06 | 2.11E-05 | 1.31E-05 | 1.31E-05 | 6.49E-06 |
| 1733 | 257161.78 | 4085125.85 | 1.97E-05 | 2.85E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 2.99E-06 | 4.33E-05 | 3.27E-05 | 3.27E-05 | 1.80E-05 | 1.62E-06 | 2.35E-05 | 1.46E-05 | 1.46E-05 | 7.21E-06 |
| 1734 | 257162.61 | 4085148.13 | 2.07E-05 | 3.00E-04 | 2.21E-04 | 2.21E-04 | 1.23E-04 | 3.14E-06 | 4.57E-05 | 3.45E-05 | 3.45E-05 | 1.90E-05 | 1.71E-06 | 2.47E-05 | 1.53E-05 | 1.53E-05 | 7.60E-06 |
| 1735 | 257063.44 | 4084953.69 | 9.43E-06 | 1.36E-04 | 1.00E-04 | 1.00E-04 | 5.60E-05 | 1.43E-06 | 2.08E-05 | 1.57E-05 | 1.57E-05 | 8.63E-06 | 7.77E-07 | 1.12E-05 | 6.98E-06 | 6.98E-06 | 3.46E-06 |
| 1736 | 257078.17 | 4084913.92 | 8.43E-06 | 1.22E-04 | 8.98E-06 | 8.98E-05 | 5.01E-05 | 1.28E-06 | 1.86E-05 | 1.40E-05 | 1.40E-05 | 7.71E-06 | 6.95E-07 | 1.00E-05 | 6.24E-06 | 6.24E-06 | 3.09E-06 |
| 1737 | 257092.9 | 4084874.14 | 7.56E-06 | 1.09E-04 | 8.05E-05 | 8.05E-05 | 4.49E-05 | 1.15E-06 | 1.66E-05 | 1.26E-05 | 1.26E-05 | 6.91E-06 | 6.23E-07 | 9.01E-06 | 5.59E-06 | 5.59E-06 | 2.77E-06 |
| 1738 | 257107.63 | 4084834.36 | 6.83E-06 | 9.88E-05 | 7.29E-05 | 7.29E-05 | 4.06E-05 | 1.04E-06 | 1.51E-05 | 1.14E-05 | 1.14E-05 | 6.25E-06 | 5.63E-07 | 8.15E-06 | 5.06E-06 | 5.06E-06 | 2.51E-06 |
| 1739 | 257122.36 | 4084794.59 | 6.25E-06 | 9.03E-05 | 6.66E-05 | 6.66E-05 | 3.71E-05 | 9.48E-07 | 1.38E-05 | 1.04E-05 | 1.04E-05 | 5.72E-06 | 5.15E-07 | 7.45E-06 | 4.63E-06 | 4.63E-06 | 2.29E-06 |
| 1740 | 257137.09 | 4084754.81 | 5.75E-06 | 8.32E-05 | 6.13E-05 | 6.13E-05 | 3.42E-05 | 8.73E-07 | 1.27E-05 | 9.57E-06 | 9.57E-06 | 5.26E-06 | 4.74E-07 | 6.85E-06 | 4.26E-06 | 4.26E-06 | 2.11E-06 |
| 1741 | 257151.82 | 4084715.03 | 5.33E-06 | 7.71E-05 | 5.68E-05 | 5.68E-05 | 3.17E-05 | 8.09E-07 | 1.17E-05 | 8.87E-06 | 8.87E-06 | 4.88E-06 | 4.39E-07 | 6.35E-06 | 3.95E-06 | 3.95E-06 | 1.95E-06 |
| 1742 | 257166.55 | 4084675.26 | 4.95E-06 | 7.16E-05 | 5.28E-05 | 5.28E-05 | 2.94E-05 | 7.51E-07 | 1.09E-05 | 8.24E-06 | 8.24E-06 | 4.53E-06 | 4.08E-07 | 5.90E-06 | 3.66E-06 | 3.66E-06 | 1.81E-06 |
| 1743 | 257181.27 | 4084635.48 | 4.59E-06 | 6.64E-05 | 4.89E-06 | 4.89E-05 | 2.73E-05 | 6.96E-07 | 1.01E-05 | 7.64E-06 | 7.64E-06 | 4.20E-06 | 3.78E-07 | 5.47E-06 | 3.40E-06 | 3.40E-06 | 1.68E-06 |
| 1744 | 257207.89 | 4084606.7 | 4.44E-06 | 6.42E-05 | 4.73E-05 | 4.73E-05 | 2.64E-05 | 6.73E-07 | 9.78E-06 | 7.38E-06 | 7.38E-06 | 4.06E-06 | 3.66E-07 | 5.29E-06 | 3.29E-06 | 3.29E-06 | 1.63E-06 |
| 1745 | 257246.4 | 4084588.91 | 4.48E-06 | 6.48E-05 | 4.78E-05 | 4.78E-05 | 2.66E-05 | 6.80E-07 | 9.87E-06 | 7.46E-06 | 7.46E-06 | 4.10E-06 | 3.69E-07 | 5.34E-06 | 3.32E-06 | 3.32E-06 | 1.64E-06 |
| 1746 | 257284.9 | 4084571.12 | 4.54E-06 | 6.56E-05 | 4.84E-05 | 4.84E-05 | 2.70E-05 | 6.89E-07 | 1.00E-05 | 7.55E-06 | 7.55E-06 | 4.15E-06 | 3.74E-07 | 5.41E-06 | 3.36E-06 | 3.36E-06 | 1.66E-06 |
| 1747 | 257323.41 | 4084553.33 | 4.60E-06 | 6.66E-05 | 4.91E-05 | 4.91E-05 | 2.74E-05 | 6.98E-07 | 1.01E-05 | 7.66E-06 | 7.66E-06 | 4.21E-06 | 3.79E-07 | 5.49E-06 | 3.41E-06 | 3.41E-06 | 1.69E-06 |
| 1748 | 257361.92 | 4084535.54 | 4.66E-06 | 6.74E-05 | 4.97E-05 | 4.97E-05 | 2.77E-05 | 7.07E-07 | 1.03E-05 | 7.76E-06 | 7.76E-06 | 4.26E-06 | 3.84E-07 | 5.56E-06 | 3.45E-06 | 3.45E-06 | 1.71E-06 |
| 1749 | 257400.42 | 4084517.75 | 4.71E-06 | 6.81E-06 | 5.02E-05 | 5.02E-05 | 2.80E-05 | 7.15E-07 | 1.04E-05 | 7.84E-06 | 7.84E-06 | 4.31E-06 | 3.88E-07 | 5.62E-06 | 3.49E-06 | 3.49E-06 | 1.73E-06 |
| 1750 | 257438.93 | 4084499.96 | 4.76E-06 | 6.89E-05 | 5.08E-05 | 5.08E-05 | 2.83E-05 | 7.23E-07 | 1.05E-06 | 7.93E-06 | 7.93E-06 | 4.36E-06 | 3.93E-07 | 5.68E-06 | 3.53E-06 | 3.53E-06 | 1.75E-06 |
| 1751 | 257477.43 | 4084482.18 | 4.83E-06 | 6.98E-05 | 5.15E-05 | 5.15E-05 | 2.87E-05 | 7.33E-07 | 1.05E-05 | 8.04E-06 | 8.04E-06 | 4.42E-06 | 3.98E-07 | 5.76E-06 | 3.58E-06 | 3.58E-06 | 1.77E-06 |
| 1752 | 257056.9 | 4084995.86 | 1.07E-05 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 8.35E-05 | 1.62E-06 | 2.35E-05 | 1.78E-05 | 1.78E-05 | 9.78E-06 | 8.81E-07 | 1.27E-05 | 7.91E-06 | 7.91E-06 | 3.92E-06 |
| 1753 | 257057.72 | 4085018.15 | 1.14E-05 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.79E-05 | 1.73E-06 | 2.52E-05 | 1.90E-05 | 1.90E-05 | 1.04E-05 | 9.41E-07 | 1.36E-05 | 8.46E-06 | 8.46E-06 | 4.19E-06 |
| 1754 | 257059.38 | 4085062.71 | 1.28E-05 | 1.85E-04 | 1.36E-04 | 1.36E-04 | 7.58E-05 | 1.94E-06 | 2.81E-05 | 2.12E-05 | 2.12E-05 | 1.17E-05 | 1.05E-06 | 1.52E-05 | 9.45E-06 | 9.45E-06 | 4.68E-06 |
| 1755 | 25706.03 | 4085107.27 | 1.39E-05 | 2.01E-04 | 1.48E-04 | 1.48E-04 | 8.26E-05 | 2.11E-06 | 3.05E-05 | 2.31E-05 | 2.31E-05 | 1.27E-05 | 1.15E-06 | 1.66E-05 | 1.03E-05 | 1.03E-05 | 5.10E-06 |
| 1756 | 257062.68 | 4085251.83 | 1.49E-05 | 2.16E-04 | 1.59E-04 | 1.59E-04 | 8.87E-05 | 2.27E-06 | 3.29E-05 | 2.49E-05 | 2.49E-05 | 1.37E-05 | 1.23E-06 | 1.78E-05 | 1.11E-05 | 1.11E-05 | 5.47E-06 |
| 1757 | 256963.72 | 4084956.83 | 7.91E-06 | 1.14E-04 | 8.43E-05 | 8.43E-05 | 4.70E-05 | 1.20E-06 | 1.74E-05 | 1.32E-05 | 1.32E-05 | 7.23E-06 | 6.52E-07 | 9.43E-06 | 5.85E-06 | 5.85E-06 | 2.90E-06 |
| 1758 | 256978.87 | 4084915.92 | 7.12E-06 | 1.03E-04 | 7.59E-05 | 7.59E-05 | 4.23E-05 | 1.08E-06 | 1.57E-05 | 1.18E-05 | 1.18E-05 | 6.51E-06 | 5.87E-07 | 8.49E-06 | 5.27E-06 | 5.27E-06 | 2.61E-06 |
| 1759 | 256994.02 | 4084875 | 6.42E-06 | 9.29E-05 | 6.85E-05 | 6.85E-05 | 3.82E-05 | 9.75E-07 | 1.42E-05 | 1.07E-05 | 1.07E-05 | 5.88E-06 | 5.29E-07 | 7.66E-06 | 4.76E-06 | 4.76E-06 | 2.35E-06 |
| 1760 | 257009.17 | 4084834.09 | 5.85E-06 | 8.46E-05 | 6.24E-05 | 6.24E-05 | 3.48E-05 | 8.88E-07 | 1.29E-05 | 9.74E-06 | 9.74E-06 | 5.35E-06 | 4.82E-07 | 6.97E-06 | 4.33E-06 | 4.33E-06 | 2.14E-06 |
| 1761 | 257024.32 | 4084793.18 | 5.36E-06 | 7.76E-05 | 5.72E-05 | 5.72E-05 | 3.19E-05 | 8.14E-07 | 1.18E-05 | 8.93E-06 | 8.93E-06 | 4.91E-06 | 4.42E-07 | 6.40E-06 | 3.97E-06 | 3.97E-06 | 1.97E-06 |
| 1762 | 257039.47 | 4084752.26 | 4.94E-06 | 7.14E-05 | 5.26E-05 | 5.26E-05 | 2.94E-05 | 7.49E-07 | 1.09E-05 | 8.22E-06 | 8.22E-06 | 4.52E-06 | 4.07E-07 | 5.89E-06 | 3.66E-06 | 3.66E-06 | 1.81E-06 |
| 1763 | 257054.62 | 4084711.35 | 4.57E-06 | 6.62E-05 | 4.88E-05 | 4.88E-05 | 2.72E-05 | 6.94E-07 | 1.01E-05 | 7.61E-06 | 7.61E-06 | 4.19E-06 | 3.77E-07 | 5.45E-06 | 3.39E-06 | 3.39E-06 | 1.68E-06 |
| 1764 | 257069.77 | 4084670.44 | 4.26E-06 | 6.16E-05 | 4.54E-05 | 4.54E-05 | 2.53E-05 | 6.47E-07 | 9.39E-06 | 7.09E-06 | 7.09E-06 | 3.90E-06 | 3.51E-07 | 5.08E-06 | 3.16E-06 | 3.16E-06 | 1.56E-06 |
| 1765 | 257084.92 | 4084629.52 | 3.99E-06 | 5.77E-05 | 4.25E-05 | 4.25E-05 | 2.37E-05 | 6.05E-07 | 8.79E-06 | 6.64E-06 | 6.64E-06 | 3.65E-06 | 3.29E-07 | 4.75E-06 | 2.95E-06 | 2.95E-06 | 1.46E-06 |
| 1766 | 257100.07 | 4084588.61 | 3.73E-06 | 5.39E-05 | 3.98E-05 | 3.98E-06 | 2.22E-05 | 5.66E-07 | 8.22E-06 | 6.21E-06 | 6.21E-06 | 3.41E-06 | 3.07E-07 | 4.45E-06 | 2.76E-06 | 2.76E-06 | 1.37E-06 |
| 1767 | 257135.02 | 4084538.55 | 3.50E-06 | 5.06E-05 | 3.73E-05 | 3.73E-05 | 2.08E-05 | 5.31E-07 | 7.71E-06 | 5.83E-06 | 5.83E-06 | 3.20E-06 | 2.88E-07 | 4.17E-06 | 2.59E-06 | 2.59E-06 | 1.28E-06 |
| 1768 | 257174.63 | 4084520.25 | 3.53E-06 | 5.11E-05 | 3.77E-05 | 3.77E-05 | 2.10E-05 | 5.36E-07 | 7.79E-06 | 5.88E-06 | 5.88E-06 | 3.23E-06 | 2.91E-07 | 4.21E-06 | 2.62E-06 | 2.62E-06 | 1.30E-06 |
| 1769 | 257214.24 | 4084501.95 | 3.59E-06 | 5.19E-05 | 3.82E-05 | 3.82E-05 | 2.13E-05 | 5.44E-07 | 7.90E-06 | 5.97E-06 | 5.97E-06 | 3.28E-06 | 2.96E-07 | 4.28E-06 | 2.66E-06 | 2.66E-06 | 1.31E-06 |
| 1770 | 257253.84 | 4084483.66 | 3.65E-06 | 5.27E-05 | 3.89E-05 | 3.89E-05 | 2.17E-05 | 5.53E-07 | 8.03E-06 | 6.07E-06 | 6.07E-06 | 3.34E-06 | 3.00E-07 | 4.35E-06 | 2.70E-06 | 2.70E-06 | 1.34E-06 |
| 1771 | 257293.45 | 4084465.36 | 3.70E-06 | 5.35E-05 | 3.95E-05 | 3.95E-05 | 2.20E-05 | 5.62E-07 | 8.15E-06 | 6.16E-06 | 6.16E-06 | 3.39E-06 | 3.05E-07 | 4.41E-06 | 2.74E-06 | 2.74E-06 | 1.36E-06 |
| 1772 | 257333.05 | 4084447.06 | 3.74E-06 | 5.41E-05 | 3.99E-05 | 3.99E-05 | 2.22E-05 | 5.68E-07 | 8.24E-06 | 6.23E-06 | 6.23E-06 | 3.42E-06 | 3.08E-07 | 4.46E-06 | 2.77E-06 | 2.77E-06 | 1.37E-06 |
| 1773 | 257372.66 | 4084428.77 | 3.78E-06 | 5.44E-05 | 4.01E-05 | 4.01E-05 | 2.24E-05 | 5.71E-07 | 8.29E-06 | 6.27E-06 | 6.27E-06 | 3.44E-06 | 3.10E-07 | 4.49E-06 | 2.79E-06 | 2.79E-06 | 1.38E-06 |
| 1774 | 257412.27 | 4084410.47 | 3.77E-06 | 5.46E-05 | 4.02E-05 | 4.02E-05 | 2.24E-05 | 5.73E-07 | 8.32E-06 | 6.28E-06 | 6.28E-06 | 3.45E-06 | 3.11E-07 | 4.50E-06 | 2.80E-06 | 2.80E-06 | 1.38E-06 |
| 1775 | 257451.87 | 4084392.17 | 3.78E-06 | 5.47E-05 | 4.03E-05 | 4.03E-06 | 2.25E-05 | 5.74E-07 | 8.34E-06 | 6.30E-06 | 6.30E-06 | 3.46E-06 | 3.12E-07 | 4.51E-06 | 2.80E-06 | 2.80E-06 | 1.39E-06 |
| 1776 | 257491.48 | 4084373.87 | 3.80E-06 | 5.49E-05 | 4.05E-05 | 4.05E-05 | 2.26E-05 | 5.77E-07 | 8.37E-06 | 6.32E-06 | 6.32E-06 | 3.48E-06 | 3.13E-07 | 4.53E-06 | 2.81E-06 | 2.81E-06 | 1.39E-06 |
| 1777 | 256956.97 | 4084999.57 | 8.85E-06 | 1.28E-04 | 9.43E-05 | 9.43E-06 | 5.26E-05 | 1.34E-06 | 1.95E-05 | 1.47E-05 | 1.47E-05 | 8.09E-06 | 7.29E-07 | 1.05E-05 | 6.55E-06 | 6.55E-06 | 3.24E-06 |
| 1778 | 256958.62 | 4085044.13 | 9.85E-06 

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1572 | 259510.51 | 4084110.12 | 1.12E-05 | 1.62E-04 | 1.20E-04 | 1.20E-04 | 6.66E-05 | 1.70E-06 | 2.47E-05 | 1.87E-05 | 1.87E-05 | 1.03E-05 | 9.24E-07 | 1.34E-05 | 8.30E-06 | 8.30E-06 | 4.11E-06 |
| 1573 | 259520.44 | 4084132.07 | 1.12E-05 | 1.62E-04 | 1.19E-04 | 1.19E-04 | 6.65E-05 | 1.70E-06 | 2.46E-05 | 1.86E-05 | 1.86E-05 | 1.02E-05 | 9.22E-07 | 1.33E-05 | 8.28E-06 | 8.28E-06 | 4.10E-06 |
| 1574 | 259530.37 | 4084154.02 | 1.11E-05 | 1.61E-04 | 1.19E-04 | 1.19E-04 | 6.61E-05 | 1.69E-06 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.02E-05 | 9.17E-07 | 1.33E-05 | 8.24E-06 | 8.24E-06 | 4.08E-06 |
| 1575 | 259540.3 | 4084175.97 | 1.10E-05 | 1.60E-04 | 1.18E-04 | 1.18E-04 | 6.56E-05 | 1.66E-06 | 2.43E-05 | 1.84E-05 | 1.84E-05 | 1.01E-05 | 9.10E-07 | 1.32E-05 | 8.18E-06 | 8.18E-06 | 4.05E-06 |
| 1576 | 259550.23 | 4084197.91 | 1.09E-05 | 1.58E-04 | 1.17E-04 | 1.17E-04 | 6.50E-05 | 1.66E-06 | 2.41E-05 | 1.82E-05 | 1.82E-05 | 1.00E-05 | 9.01E-07 | 1.30E-05 | 8.10E-06 | 8.10E-06 | 4.01E-06 |
| 1577 | 259560.16 | 4084219.86 | 1.08E-05 | 1.56E-04 | 1.15E-04 | 1.15E-04 | 6.42E-05 | 1.64E-06 | 2.38E-05 | 1.80E-05 | 1.80E-05 | 9.89E-06 | 8.91E-07 | 1.29E-05 | 8.00E-06 | 8.00E-06 | 3.96E-06 |
| 1578 | 259570.09 | 4084241.81 | 1.07E-05 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.33E-05 | 1.62E-06 | 2.35E-05 | 1.77E-05 | 1.77E-05 | 9.75E-06 | 8.78E-07 | 1.27E-05 | 7.89E-06 | 7.89E-06 | 3.91E-06 |
| 1579 | 259580.02 | 4084263.76 | 1.05E-05 | 1.52E-04 | 1.12E-04 | 1.12E-04 | 6.23E-05 | 1.59E-06 | 2.31E-05 | 1.75E-05 | 1.75E-05 | 9.60E-06 | 8.65E-07 | 1.25E-05 | 7.77E-06 | 7.77E-06 | 3.85E-06 |
| 1580 | 259589.95 | 4084285.71 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.13E-05 | 1.57E-06 | 2.27E-05 | 1.72E-05 | 1.72E-05 | 9.44E-06 | 8.50E-07 | 1.23E-05 | 7.64E-06 | 7.64E-06 | 3.78E-06 |
| 1581 | 259599.88 | 4084307.65 | 1.01E-05 | 1.46E-04 | 1.08E-04 | 1.08E-04 | 6.02E-05 | 1.54E-06 | 2.23E-05 | 1.69E-05 | 1.69E-05 | 9.27E-06 | 8.35E-07 | 1.21E-05 | 7.50E-06 | 7.50E-06 | 3.71E-06 |
| 1582 | 259609.81 | 4084329.6 | 9.94E-06 | 1.44E-04 | 1.06E-04 | 1.06E-04 | 5.91E-05 | 1.51E-06 | 2.19E-05 | 1.65E-05 | 1.65E-05 | 9.09E-06 | 8.19E-07 | 1.18E-05 | 7.36E-06 | 7.36E-06 | 3.64E-06 |
| 1583 | 259619.74 | 4084351.55 | 9.75E-06 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.80E-05 | 1.48E-06 | 2.15E-05 | 1.62E-05 | 1.62E-05 | 8.92E-06 | 8.04E-07 | 1.16E-05 | 7.22E-06 | 7.22E-06 | 3.57E-06 |
| 1584 | 259629.67 | 4084373.5 | 9.57E-06 | 1.38E-04 | 1.02E-04 | 1.02E-04 | 5.69E-05 | 1.45E-06 | 2.11E-05 | 1.59E-05 | 1.59E-05 | 8.75E-06 | 7.89E-07 | 1.14E-05 | 7.09E-06 | 7.09E-06 | 3.51E-06 |
| 1585 | 259639.59 | 4084395.45 | 9.39E-06 | 1.36E-04 | 1.00E-04 | 1.00E-04 | 5.58E-05 | 1.42E-06 | 2.07E-05 | 1.56E-05 | 1.56E-05 | 8.59E-06 | 7.74E-07 | 1.12E-05 | 6.95E-06 | 6.95E-06 | 3.44E-06 |
| 1586 | 259649.52 | 4084417.39 | 9.25E-06 | 1.34E-04 | 9.86E-05 | 9.66E-05 | 5.49E-05 | 1.40E-06 | 2.04E-05 | 1.54E-05 | 1.54E-05 | 8.46E-06 | 7.62E-07 | 1.10E-05 | 6.85E-06 | 6.85E-06 | 3.39E-06 |
| 1587 | 259659.45 | 4084439.34 | 9.07E-06 | 1.31E-04 | 9.67E-05 | 9.67E-05 | 5.39E-05 | 1.38E-06 | 2.00E-05 | 1.51E-05 | 1.51E-05 | 8.30E-06 | 7.48E-07 | 1.08E-05 | 6.72E-06 | 6.72E-06 | 3.32E-06 |
| 1588 | 259669.38 | 4084461.29 | 8.89E-06 | 1.29E-04 | 9.48E-05 | 9.48E-05 | 5.28E-05 | 1.35E-06 | 1.96E-05 | 1.48E-05 | 1.48E-05 | 8.14E-06 | 7.33E-07 | 1.06E-05 | 6.58E-06 | 6.58E-06 | 3.26E-06 |
| 1589 | 259679.31 | 4084483.24 | 8.70E-06 | 1.26E-04 | 9.27E-05 | 9.27E-05 | 5.17E-05 | 1.32E-06 | 1.92E-05 | 1.45E-05 | 1.45E-05 | 7.96E-06 | 7.17E-07 | 1.04E-05 | 6.44E-06 | 6.44E-06 | 3.19E-06 |
| 1590 | 259689.24 | 4084505.19 | 8.50E-06 | 1.23E-04 | 9.06E-05 | 9.06E-05 | 5.05E-05 | 1.29E-06 | 1.87E-05 | 1.41E-05 | 1.41E-05 | 7.77E-06 | 7.00E-07 | 1.01E-05 | 6.29E-06 | 6.29E-06 | 3.11E-06 |
| 1591 | 259699.17 | 4084527.13 | 8.28E-06 | 1.20E-04 | 8.82E-05 | 8.82E-05 | 4.92E-05 | 1.26E-06 | 1.82E-05 | 1.38E-05 | 1.38E-05 | 7.57E-06 | 6.82E-07 | 9.87E-06 | 6.13E-06 | 6.13E-06 | 3.03E-06 |
| 1592 | 259709.1 | 4084549.08 | 8.04E-06 | 1.16E-04 | 8.57E-05 | 8.57E-05 | 4.78E-05 | 1.22E-06 | 1.77E-05 | 1.34E-05 | 1.34E-05 | 7.36E-06 | 6.63E-07 | 9.58E-06 | 5.95E-06 | 5.95E-06 | 2.95E-06 |
| 1593 | 259719.03 | 4084571.03 | 7.79E-06 | 1.13E-04 | 8.30E-05 | 8.30E-05 | 4.63E-05 | 1.18E-06 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.13E-06 | 6.42E-07 | 9.28E-06 | 5.77E-06 | 5.77E-06 | 2.85E-06 |
| 1594 | 259728.96 | 4084592.98 | 7.52E-06 | 1.09E-04 | 8.02E-05 | 8.02E-05 | 4.47E-05 | 1.14E-06 | 1.66E-05 | 1.25E-05 | 1.25E-05 | 6.89E-06 | 6.20E-07 | 8.97E-06 | 5.57E-06 | 5.57E-06 | 2.76E-06 |
| 1595 | 259738.89 | 4084614.93 | 7.26E-06 | 1.05E-04 | 7.74E-05 | 7.74E-05 | 4.32E-05 | 1.10E-06 | 1.60E-05 | 1.21E-05 | 1.21E-05 | 6.65E-06 | 5.99E-07 | 8.66E-06 | 5.38E-06 | 5.38E-06 | 2.66E-06 |
| 1596 | 259748.82 | 4084636.87 | 7.00E-06 | 1.01E-04 | 7.47E-05 | 7.47E-05 | 4.16E-05 | 1.06E-06 | 1.54E-05 | 1.17E-05 | 1.17E-05 | 6.41E-06 | 5.77E-07 | 8.35E-06 | 5.19E-06 | 5.19E-06 | 2.57E-06 |
| 1597 | 259758.75 | 4084658.82 | 6.76E-06 | 9.78E-05 | 7.21E-05 | 7.21E-05 | 4.02E-05 | 1.03E-06 | 1.49E-05 | 1.13E-05 | 1.13E-05 | 6.19E-06 | 5.57E-07 | 8.06E-06 | 5.01E-06 | 5.01E-06 | 2.48E-06 |
| 1598 | 259768.68 | 4084680.77 | 6.54E-06 | 9.46E-05 | 6.97E-05 | 6.97E-05 | 3.89E-05 | 9.92E-07 | 1.44E-05 | 1.09E-05 | 1.09E-05 | 5.98E-06 | 5.39E-07 | 7.80E-06 | 4.84E-06 | 4.84E-06 | 2.40E-06 |
| 1599 | 259778.61 | 4084702.72 | 6.34E-06 | 9.17E-05 | 6.76E-05 | 6.76E-05 | 3.77E-05 | 9.62E-07 | 1.40E-06 | 1.05E-05 | 1.05E-05 | 5.80E-06 | 5.22E-07 | 7.56E-06 | 4.69E-06 | 4.69E-06 | 2.32E-06 |
| 1600 | 259788.54 | 4084724.67 | 6.16E-06 | 8.91E-05 | 6.56E-05 | 6.56E-05 | 3.66E-05 | 9.35E-07 | 1.36E-05 | 1.02E-05 | 1.02E-05 | 5.63E-06 | 5.08E-07 | 7.34E-06 | 4.58E-06 | 4.56E-06 | 2.26E-06 |
| 1601 | 259798.47 | 4084746.61 | 5.99E-06 | 8.67E-05 | 6.39E-05 | 6.39E-05 | 3.56E-05 | 9.09E-07 | 1.32E-05 | 9.97E-06 | 9.97E-06 | 5.48E-06 | 4.94E-07 | 7.14E-06 | 4.44E-06 | 4.44E-06 | 2.20E-06 |
| 1602 | 259808.39 | 4084768.56 | 5.84E-06 | 8.44E-05 | 6.22E-05 | 6.22E-05 | 3.47E-05 | 8.86E-07 | 1.29E-05 | 9.71E-06 | 9.71E-06 | 5.34E-06 | 4.81E-07 | 6.96E-06 | 4.32E-06 | 4.32E-06 | 2.14E-06 |
| 1603 | 259818.32 | 4084790.51 | 5.66E-06 | 8.22E-05 | 6.06E-05 | 6.06E-05 | 3.38E-05 | 8.63E-07 | 1.25E-05 | 9.46E-06 | 9.46E-06 | 5.20E-06 | 4.69E-07 | 6.78E-06 | 4.21E-06 | 4.21E-06 | 2.08E-06 |
| 1604 | 259828.25 | 4084812.46 | 5.53E-06 | 8.00E-05 | 5.90E-05 | 5.90E-05 | 3.29E-05 | 8.39E-07 | 1.22E-05 | 9.21E-06 | 9.21E-06 | 5.06E-06 | 4.56E-07 | 6.59E-06 | 4.10E-06 | 4.10E-06 | 2.03E-06 |
| 1605 | 259838.18 | 4084834.41 | 5.37E-06 | 7.77E-05 | 5.73E-05 | 5.73E-05 | 3.19E-05 | 8.15E-07 | 1.18E-05 | 8.94E-06 | 8.94E-06 | 4.92E-06 | 4.43E-07 | 6.41E-06 | 3.98E-06 | 3.98E-06 | 1.97E-06 |
| 1606 | 259848.11 | 4084856.35 | 5.21E-06 | 7.53E-05 | 5.55E-05 | 5.55E-05 | 3.10E-05 | 7.91E-07 | 1.15E-05 | 8.67E-06 | 8.67E-06 | 4.77E-06 | 4.29E-07 | 6.21E-06 | 3.86E-06 | 3.86E-06 | 1.91E-06 |
| 1607 | 258297.07 | 4083423.33 | 1.87E-06 | 2.71E-05 | 2.00E-05 | 2.00E-05 | 1.11E-05 | 2.85E-07 | 4.13E-06 | 3.12E-06 | 3.12E-06 | 1.72E-06 | 1.55E-07 | 2.24E-06 | 1.39E-06 | 1.39E-06 | 6.87E-07 |
| 1608 | 258272.73 | 4083424.33 | 1.84E-06 | 2.66E-05 | 1.96E-05 | 1.96E-05 | 1.09E-05 | 2.79E-07 | 4.05E-06 | 3.06E-06 | 3.06E-06 | 1.68E-06 | 1.52E-07 | 2.19E-06 | 1.36E-06 | 1.36E-06 | 6.74E-07 |
| 1609 | 258248.4 | 4083425.33 | 1.80E-06 | 2.61E-05 | 1.92E-05 | 1.92E-05 | 1.07E-05 | 2.74E-07 | 3.97E-06 | 3.00E-06 | 3.00E-06 | 1.65E-06 | 1.49E-07 | 2.15E-06 | 1.34E-06 | 1.34E-06 | 6.61E-07 |
| 1610 | 258224.07 | 4083426.33 | 1.77E-06 | 2.56E-05 | 1.89E-05 | 1.89E-05 | 1.05E-05 | 2.69E-07 | 3.90E-06 | 2.95E-06 | 2.95E-06 | 1.62E-06 | 1.46E-07 | 2.11E-06 | 1.31E-06 | 1.31E-06 | 6.49E-07 |
| 1611 | 258199.74 | 4083427.33 | 1.74E-06 | 2.51E-05 | 1.85E-05 | 1.85E-05 | 1.03E-05 | 2.64E-07 | 3.83E-06 | 2.89E-06 | 2.89E-06 | 1.59E-06 | 1.43E-07 | 2.07E-06 | 1.29E-06 | 1.29E-06 | 6.37E-07 |
| 1612 | 258175.41 | 4083428.33 | 1.71E-06 | 2.47E-05 | 1.82E-05 | 1.82E-05 | 1.01E-05 | 2.59E-07 | 3.76E-06 | 2.84E-06 | 2.84E-06 | 1.56E-06 | 1.41E-07 | 2.04E-06 | 1.26E-06 | 1.26E-06 | 6.26E-07 |
| 1613 | 258151.07 | 4083429.33 | 1.68E-06 | 2.42E-05 | 1.79E-05 | 1.79E-05 | 9.96E-06 | 2.54E-07 | 3.69E-06 | 2.79E-06 | 2.79E-06 | 1.53E-06 | 1.38E-07 | 2.00E-06 | 1.24E-06 | 1.24E-06 | 6.14E-07 |
| 1614 | 258126.74 | 4083430.33 | 1.65E-06 | 2.38E-05 | 1.75E-05 | 1.75E-05 | 9.78E-06 | 2.50E-07 | 3.63E-06 | 2.74E-06 | 2.74E-06 | 1.51E-06 | 1.36E-07 | 1.96E-06 | 1.22E-06 | 1.22E-06 | 6.03E-07 |
| 1615 | 258102.41 | 4083431.33 | 1.61E-06 | 2.34E-05 | 1.72E-05 | 1.72E-05 | 9.60E-06 | 2.45E-07 | 3.56E-06 | 2.69E-06 | 2.69E-06 | 1.48E-06 | 1.33E-07 | 1.93E-06 | 1.20E-06 | 1.20E-06 | 5.92E-07 |
| 1616 | 258078.08 | 4083432.33 | 1.58E-06 | 2.29E-05 | 1.69E-05 | 1.69E-05 | 9.41E-06 | 2.40E-07 | 3.49E-06 | 2.64E-06 | 2.64E-06 | 1.45E-06 | 1.31E-07 | 1.89E-06 | 1.17E-06 | 1.17E-06 | 5.81E-07 |
| 1617 | 258053.75 | 4083433.33 | 1.56E-06 | 2.25E-05 | 1.66E-05 | 1.66E-05 | 9.24E-06 | 2.36E-07 | 3.43E-06 | 2.59E-06 | 2.59E-06 | 1.42E-06 | 1.28E-07 | 1.85E-06 | 1.15E-06 | 1.15E-06 | 5.70E-07 |
| 1618 | 258029.42 | 4083434.33 | 1.52E-06 | 2.21E-05 | 1.63E-05 | 1.63E-05 | 9.06E-06 | 2.31E-07 | 3.36E-06 | 2.54E-06 | 2.54E-06 | 1.40E-06 | 1.26E-07 | 1.82E-06 | 1.13E-06 | 1.13E-06 | 5.59E-07 |
| 1619 | 258005.08 | 4083435.33 | 1.50E-06 | 2.16E-05 | 1.59E-05 | 1.59E-05 | 8.89E-06 | 2.27E-07 | 3.30E-06 | 2.49E-06 | 2.49E-06 | 1.37E-06 | 1.23E-07 | 1.78E-06 | 1.11E-06 | 1.11E-06 | 5.48E-07 |
| 1620 | 257980.75 | 4083436.33 | 1.47E-06 | 2.12E-05 | 1.56E-05 | 1.56E-05 | 8.71E-06 | 2.22E-07 | 3.23E-06 | 2.44E-06 | 2.44E-06 | 1.34E-06 | 1.21E-07 | 1.75E-06 | 1.09E-06 | 1.09E-06 | 5.37E-07 |
| 1621 | 257956.42 | 4083437.33 | 1.44E-06 | 2.08E-05 | 1.53E-05 | 1.53E-05 | 8.54E-06 | 2.18E-07 | 3.17E-06 | 2.39E-06 | 2.39E-06 | 1.31E-06 | 1.18E-07 | 1.71E-06 | 1.06E-06 | 1.06E-06 | 5.27E-07 |
| 1622 | 257932.09 | 4083438.33 | 1.41E-06 | 2.04E-05 | 1.50E-05 | 1.50E-05 | 8.38E-06 | 2.14E-07 | 3.11E-06 | 2.35E-06 | 2.35E-06 | 1.29E-06 | 1.16E-07 | 1.68E-06 | 1.04E-06 | 1.04E-06 | 5.17E-07 |
| 1623 | 257907.76 | 4083439.33 | 1.38E-06 | 2.00E-05 | 1.47E-05 | 1.47E-05 | 8.21E-06 | 2.10E-07 | 3.04E-06 | 2.30E-06 | 2.30E-06 | 1.26E-06 | 1.14E-07 | 1.65E-06 | 1.02E-06 | 1.02E-06 | 5.06E-07 |
| 1624 | 257883.42 | 4083440.33 | 1.35E-06 | 1.96E-05 | 1.44E-05 | 1.44E-05 | 8.05E-06 | 2.06E-07 | 2.98E-06 | 2.25E-06 | 2.25E-06 | 1.24E-06 | 1.12E-07 | 1.61E-06 | 1.00E-06 | 1.00E-06 | 4.97E-07 |
| 1625 | 257859.09 | 4083441.33 | 1.33E-06 | 1.92E-05 | 1.42E-05 | 1.42E-05 | 7.90E-06 | 2.02E-07 | 2.93E-06 | 2.21E-06 | 2.21E-06 | 1.22E-06 | 1.10E-07 | 1.59E-06 | 9.85E-07 | 9.85E-07 | 4.87E-07 |
| 1626 | 257834.76 | 4083442.33 | 1.31E-06 | 1.89E-05 | 1.39E-05 | 1.39E-05 | 7.76E-06 | 1.98E-07 | 2.88E-06 | 2.17E-06 | 2.17E-06 | 1.19E-06 | 1.08E-07 | 1.56E-06 | 9.67E-07 | 9.67E-07 | 4.78E-07 |
| 1627 | 257810.43 | 4083443.33 | 1.28E-06 | 1.86E-05 | 1.37E-05 | 1.37E-05 | 7.62E-06 | 1.95E-07 | 2.83E-06 | 2.14E-06 | 2.14E-06 | 1.17E-06 | 1.06E-07 | 1.53E-06 | 9.50E-07 | 9.50E-07 | 4.70E-07 |
| 1628 | 257786.1 | 4083444.33 | 1.26E-06 | 1.82E-05 | 1.34E-05 | 1.34E-05 | 7.49E-06 | 1.91E-07 | 2.78E-06 | 2.10E-06 | 2.10E-06 | 1.15E-06 | 1.04E-07 | 1.50E-06 | 9.33E-07 | 9.33E-07 | 4.62E-07 |
| 1629 | 257761.77 | 4083445.33 | 1.24E-06 | 1.79E-05 | 1.32E-05 | 1.32E-05 | 7.37E-06 | 1.88E-07 | 2.73E-06 | 2.06E-06 | 2.06E-06 | 1.13E-06 | 1.02E-07 | 1.48E-06 | 9.18E-07 | 9.18E-07 | 4.54E-07 |
| 1630 | 257737.43 | 4083446.33 | 1.22E-06 | 1.76E-05 | 1.30E-05 | 1.30E-05 | 7.25E-06 | 1.85E-07 | 2.69E-06 | 2.03E-06 | 2.03E-06 | 1.12E-06 | 1.00E-07 | 1.45E-06 | 9.03E-07 | 9.03E-07 | 4.47E-07 |
| 1631 | 257713.1 | 4083447.33 | 1.20E-06 | 1.74E-05 | 1.28E-05 | 1.28E-05 | 7.14E-06 | 1.82E-07 | 2.65E-06 | 2.00E-06 | 2.00E-06 | 1.10E-06 | 9.90E-08 | 1.43E-06 | 8.89E-07 | 8.89E-07 | 4.40E-07 |
| 1632 | 257688.77 | 4083448.33 | 1.18E-06 | 1.71E-05 | 1.26E-05 | 1.26E-05 | 7.03E-06 | 1.79E-07 | 2.61E-06 | 1.97E-06 | 1.97E-06 | 1.08E-06 | 9.75E-08 | 1.41E-06 | 8.76E-07 | 8.76E-07 | 4.33E-07 |
| 1633 | 257664.44 | 4083449.33 | 1.17E-06 | 1.69E-05 | 1.24E-05 | 1.24E-05 | 6.93E-06 | 1.77E-07 | 2.57E-06 | 1.94E-06 | 1.94E-06 | 1.07E-06 | 9.61E-08 | 1.39E-06 | 8.63E-07 | 8.63E-07 | 4.27E-07 |
| 1634 | 257640.11 | 4083450.33 | 1.15E-06 | 1.66E-05 | 1.23E-05 | 1.23E-05 | 6.83E-06 | 1.74E-07 | 2.53E-06 | 1.91E-06 | 1.91E-06 | 1.05E-06 | 9.48E-08 | 1.37E-06 | 8.51E-07 | 8.51E-07 | 4.21E-07 |
| 1635 | 257615.77 | 4083451.33 | 1.13E-06 | 1.64E-05 | 1.21E-05 | 1.21E-05 | 6.73E-06 | 1.72E-07 | 2.50E-06 | 1.89E-06 | 1.89E-06 | 1.04E-06 | 9.34E-08 | 1.35E-06 | 8.39E-07 | 8.39E-07 | 4.15E-07 |
| 1636 | 257591.44 | 4083452.33 | 1.12E-06 | 1.62E-05 | 1.19E-05 | 1.19E-05 | 6.65E-06 | 1.70E-07 | 2.47E-06 | 1.86E-06 | 1.86E-06 | 1.02E-06 | 9.22E-08 | 1.33E-06 | 8.29E-07 | 8.29E-07 | 4.10E-07 |
| 1637 | 257567.11 | 4083453.34 | 1.10E-06 | 1.60E-05 | 1.18E-05 | 1.18E-05 | 6.56E-06 | 1.68E-07 | 2.43E-06 | 1.84E-06 | 1.84E-06 | 1.01E-06 | 9.10E-08 | 1.32E-06 | 8.18E-07 | 8.18E-07 | 4.05E-07 |
| 1638 | 257542.78 | 4083454.34 | 1.09E-06 | 1.58E-05 | 1.16E-05 | 1.16E-05 | 6.48E-06 | 1.65E-07 | 2.40E-06 | 1.81E-06 | 1.81E-06 | 9.98E-07 | 8.99E-08 | 1.30E-06 | 8.07E-07 | 8.07E-07 | 4.00E-07 |
| 1639 | 257518.45 | 4083455.34 | 1.08E-06 | 1.56E-05 | 1.15E-05 | 1.15E-05 | 6.39E-06 | 1.63E-07 | 2.37E-06 | 1.79E-06 | 1.79E-06 | 9.84E-07 | 8.87E-08 | 1.28E-06 | 7.97E-07 | 7.97E-07 | 3.94E-07 |
| 1640 | 257494.12 | 4083456.34 | 1.06E-06 | 1.54E-05 | 1.13E-05 | 1.13E-05 | 6.32E-06 | 1.61E-07 | 2.34E-06 | 1.77E-06 | 1.77E-06 | 9.73E-07 | 8.77E-08 | 1.27E-06 | 7.88E-07 | 7.88E-07 | 3.90E-07 |
| 1641 | 257530.75 | 4084956 | 8.13E-05 | 1.18E-03 | 8.67E-04 | 8.67E-04 | 4.83E-04 | 1.23E-05 | 1.79E-04 | 1.35E-04 | 1.35E-04 | 7.44E-05 | 6.70E-06 | 9.69E-05 | 6.02E-05 | 6.02E-05 | 2.98E-05 |
| 1642 | 257532.4 | 4085000.56 | 2.15E-04 | 3.12E-03 | 2.30E-03 | 2.30E-03 | 1.28E-03 | 3.27E-05 | 4.75E-04 | 3.59E-04 | 3.59E-04 | 1.97E-04 | 1.78E-05 | 2.57E-04 | 1.60E-04 | 1.60E-04 | 7.90E-05 |
| 1643 | 257534.05 | 4085045.12 | 3.42E-04 | 4.95E-03 | 3.65E-03 | 3.65E-03 | 2.03E-03 | 5.20E-05 | 7.54E-04 | 5.70E-04 | 5.70E-04 | 3.13E-04 | 2.82E-05 | 4.08E-04 | 2.54E-04 | 2.54E-04 | 1.25E-04 |
| 1644 | 257534.87 | 4085067.4 | 3.83E-04 | 5.54E-03 | 4.08E-03 | 4.08E-03 | 2.27E-03 | 5.81E-05 | 8.43E-04 | 6.37E-04 | 6.37E-04 | 3.50E-04 | 3.15E-05 | 4.56E-04 | 2.83E-04 | 2.83E-04 | 1.40E-04 |
| 1645 | 257536.53 | 4085111.96 | 4.30E-04 | 6.22E-03 | 4.59E-03 | 4.59E-03 | 2.56E-03 | 6.53E-05 | 9.48E-04 | 7.16E-04 | 7.16E-04 | 3.94E-04 | 3.55E-05 | 5.13E-04 | 3.19E-04 | 3.19E-04 | 1.58E-04 |
| 1646 | 257538.18 | 4085156.53 | 4.16E-04 | 6.02E-03 | 4.44E-03 | 4.44E-03 | 2.47E-03 | 6.32E-05 | 9.17E-04 | 6.93E-04 | 6.93E-04 | 3.81E-04 | 3.43E-05 | 4.96E-04 | 3.08E-04 | 3.08E-04 | 1.53E-04 |
| 1647 | 257512.39 | 4084939.02 | 5.09E-05 | 7.36E-04 | 5.42E-04 | 5.42E-04 | 3.02E-04 | 7.72E-06 | 1.12E-04 | 8.47E-05 | 8.47E-05 | 4.66E-05 | 4.19E-06 | 6.07E-05 | 3.77E-05 | 3.77E-05 | 1.86E-05 |
| 1648 | 257506.59 | 4084979.2 | 8.53E-05 | 1.23E-03 | 9.09E-04 | 9.09E-04 | 5.07E-04 | 1.29E-05 | 1.88E-04 | 1.42E-04 | 1.42E-04 | 7.81E-05 | 7.03E-06 | 1.02E-04 | 6.32E-05 | 6.32E-05 | 3.13E-05 |
| 1649 | 257508.24 | 4085023.76 | 1.63E-04 | 2.35E-03 | 1.74E-03 | 1.74E-03 | 9.68E-04 | 2.47E-05 | 3.59E-04 | 2.71E-04 | 2.71E-04 | 1.49E-04 | 1.34E-05 | 1.94E-04 | 1.21E-04 | 1.21E-04 | 5.97E-05 |
| 1650 | 257509.89 | 4085068.33 | 2.32E-04 | 3.36E-03 | 2.47E-03 | 2.47E-03 | 1.38E-03 | 3.52E-05 | 5.12E-04 | 3.86E-04 | 3.86E-04 | 2.12E-04 | 1.91E-05 | 2.77E-04 | 1.72E-04 | 1.72E-04 | 8.51E-05 |
| 1651 | 257511.54 | 4085112.89 | 2.74E-04 | 3.97E-03 | 2.93E-03 | 2.93E-03 | 1.63E-03 | 4.16E-05 | 6.05E-04 | 4.57E-04 | 4.57E-04 | 2.51E-04 | 2.26E-05 | 3.27E-04 | 2.03E-04 | 2.03E-04 | 1.01E-04 |
| 1652 | 257513.19 | 4085157.45 | 2.82E-04 | 4.07E-03 | 3.00E-03 | 3.00E-03 | 1.67E-03 | 4.28E-05 | 6.21E-04 | 4.69E-04 | 4.69E-04 | 2.58E-04 | 2.32E-05 | 3.36E-04 | 2.09E-04 | 2.09E-04 | 1.03E-04 |
| 1653 | 257487.41 | 4084939.95 | 4.20E-05 | 6.07E-04 | 4.47E-04 | 4.47E-04 | 2.49E-04 | 6.37E-06 | 9.25E-05 | 6.99E-05 | 6.99E-05 | 3.84E-05 | 3.46E-06 | 5.00E-05 | 3.11E-05 | 3.11E-05 | 1.54E-05 |
| 1654 | 257517.99 | 4084896.14 | 3.36E-05 | 4.86E-04 | 3.58E-04 | 3.58E-04 | 2.00E-04 | 5.10E-06 | 7.41E-05 | 5.60E-06 | 5.60E-06 | 3.08E-05 | 2.77E-06 | 4.01E-05 | 2.49E-05 | 2.49E-05 | 1.23E-05 |
| 1655 | 257481.61 | 4084980.13 | 6.30E-05 | 9.11E-04 | 6.71E-04 | 6.71E-04 | 3.74E-04 | 9.56E-06 | 1.39E-04 | 1.05E-04 | 1.05E-04 | 5.76E-06 | 5.19E-06 | 7.51E-05 | 4.66E-05 | 4.56E-05 | 2.31E-05 |
| 1656 | 257483.26 | 4085024.69 | 1.07E-04 | 1.55E-03 | 1.14E-03 | 1.14E-03 | 6.36E-04 | 1.62E-05 | 2.36E-04 | 1.78E-04 | 1.78E-04 | 9.79E-05 | 8.82E-06 | 1.28E-04 | 7.92E-05 | 7.92E-05 | 3.92E-05 |
| 1657 | 257484.91 | 4085069.25 | 1.56E-04 | 2.26E-03 | 1.66E-03 | 1.66E-03 | 9.27E-04 | 2.37E-05 | 3.44E-04 | 2.60E-04 | 2.60E-04 | 1.43E-04 | 1.29E-05 | 1.86E-04 | 1.15E-04 | 1.15E-04 | 5.72E-05 |
| 1658 | 257486.56 | 4085113.81 | 1.91E-04 | 2.77E-03 | 2.04E-03 | 2.04E-03 | 1.14E-03 | 2.90E-05 | 4.22E-04 | 3.18E-04 | 3.18E-04 | 1.75E-04 | 1.58E-05 | 2.28E-04 | 1.42E-04 | 1.42E-04 | 7.01E-05 |
| 1659 | 257488.21 | 4085158.38 | 2.05E-04 | 2.97E-03 | 2.19E-03 | 2.19E-03 | 1.22E-03 | 3.12E-05 | 4.52E-04 | 3.42E-04 | 3.42E-04 | 1.88E-04 | 1.69E-05 | 2.45E-04 | 1.52E-04 | 1.52E-04 | 7.53E-05 |
| 1660 | 257462.43 | 4084940.87 | 3.56E-05 | 5.15E-04 | 3.79E-04 | 3.79E-04 | 2.12E-04 | 5.40E-06 | 7.84E-05 | 5.92E-05 | 5.92E-06 | 3.26E-05 | 2.93E-06 | 4.24E-05 | 2.64E-05 | 2.64E-05 | 1.30E-05 |
| 1661 | 257475.68 | 4084905.07 | 2.84E-05 | 4.11E-04 | 3.03E-04 | 3.03E-04 | 1.69E-04 | 4.32E-06 | 6.27E-05 | 4.73E-05 | 4.73E-05 | 2.60E-05 | 2.34E-06 | 3.39E-05 | 2.11E-05 | 2.11E-05 | 1.04E-05 |
| 1662 | 257499.64 | 4084879.17 | 2.64E-05 | 3.81E-04 | 2.81E-04 | 2.81E-04 | 1.57E-04 | 4.00E-06 | 5.81E-05 | 4.39E-05 | 4.39E-05 | 2.41E-05 | 2.17E-06 | 3.14E-05 | 1.95E-05 | 1.95E-05 | 9.66E-06 |
| 1663 | 257456.62 | 4084981.05 | 5.00E-05 | 7.23E-04 | 5.33E-04 | 5.33E-04 | 2.97E-04 | 7.58E-06 | 1.10E-04 | 8.32E-05 | 8.32E-05 | 4.57E-05 | 4.12E-06 | 5.96E-05 | 3.70E-05 | 3.70E-05 | 1.83E-05 |
| 1664 | 257458.28 | 4085025.62 | 7.75E-05 | 1.12E-03 | 8.26E-04 | 8.26E-04 | 4.61E-04 | 1.18E-05 | 1.71E-04 | 1.29E-04 | 1.29E-04 | 7.09E-05 | 6.39E-06 | 9.24E-05 | 5.74E-05 | 5.74E-05 | 2.84E-05 |
| 1665 | 257459.1 | 4085047.9 | 9.46E-05 | 1.37E-03 | 1.01E-03 | 1.01E-03 | 5.63E-04 | 1.44E-05 | 2.09E-04 | 1.58E-04 | 1.58E-04 | 8.66E-05 | 7.80E-06 | 1.13E-04 | 7.01E-05 | 7.01E-05 | 3.47E-05 |
| 1666 | 257460.75 | 4085092.46 | 1.28E-04 | 1.85E-03 | 1.36E-03 | 1.36E-03 | 7.58E-04 | 1.94E-05 | 2.81E-04 | 2.12E-04 | 2.12E-04 | 1.17E-04 | 1.05E-05 | 1.52E-04 | 9.45E-05 | 9.45E-05 | 4.68E-05 |
| 1667 | 257462.4 | 4085137.02 | 1.50E-04 | 2.18E-03 | 1.60E-03 | 1.60E-03 | 8.94E-04 | 2.28E-05 | 3.31E-04 | 2.50E-04 | 2.50E-04 | 1.38E-04 | 1.24E-05 | 1.79E-04 | 1.11E-04 | 1.11E-04 | 5.51E-05 |
| 1668 | 257412.46 | 4084942.72 | 2.71E-05 | 3.92E-04 | 2.89E-04 | 2.89E-04 | 1.61E-04 | 4.11E-06 | 5.97E-05 | 4.51E-06 | 4.51E-06 | 2.48E-05 | 2.23E-06 | 3.23E-05 | 2.01E-05 | 2.01E-05 | 9.93E-06 |
| 1669 | 257425.72 | 4084906.93 | 2.25E-05 | 3.26E-04 | 2.40E-04 | 2.40E-04 | 1.34E-04 | 3.42E-06 | 4.97E-05 | 3.75E-05 | 3.75E-05 | 2.06E-05 | 1.86E-06 | 2.69E-05 | 1.67E-05 | 1.67E-05 | 8.26E-06 |
| 1670 | 257438.97 | 4084871.13 | 1.91E-05 | 2.76E-04 | 2.03E-04 | 2.03E-04 | 1.13E-04 | 2.90E-06 | 4.21E-05 | 3.18E-05 | 3.18E-05 | 1.75E-05 | 1.57E-06 | 2.28E-05 | 1.41E-05 | 1.41E-05 | 7.00E-06 |
| 1671 | 257462.93 | 4084845.22 | 1.80E-05 | 2.60E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.73E-06 | 3.96E-05 | 2.99E-05 | 2.99E-05 | 1.65E-05 | 1.48E-06 | 2.14E-05 | 1.33E-05 | 1.33E-05 | 6.59E-06 |
| 1672 | 257497.59 | 4084829.21 | 1.87E-05 | 2.70E-04 | 1.99E-04 | 1.99E-04 | 1.11E-04 | 2.83E-06 | 4.11E-05 | 3.11E-05 | 3.11E-05 | 1.71E-05 | 1.54E-06 | 2.22E-05 | 1.38E-05 | 1.38E-05 | 6.84E-06 |
| 1673 | 257406

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1467 | 259540.11 | 4084623.27 | 9.43E-06 | 1.36E-04 | 1.01E-04 | 1.01E-04 | 5.61E-05 | 1.43E-06 | 2.08E-05 | 1.57E-05 | 1.57E-05 | 6.63E-06 | 7.77E-07 | 1.12E-05 | 6.99E-06 | 6.99E-06 | 3.46E-06 |
| 1468 | 259549.94 | 4084645.01 | 9.08E-06 | 1.31E-04 | 9.68E-05 | 9.68E-05 | 5.40E-05 | 1.38E-06 | 2.00E-05 | 1.51E-05 | 1.51E-05 | 8.31E-06 | 7.49E-07 | 1.08E-05 | 6.73E-06 | 6.73E-06 | 3.33E-06 |
| 1469 | 259559.78 | 4084666.75 | 8.73E-06 | 1.26E-04 | 9.31E-05 | 9.31E-05 | 5.19E-05 | 1.33E-06 | 1.92E-05 | 1.45E-05 | 1.45E-05 | 7.99E-06 | 7.20E-07 | 1.04E-05 | 6.47E-06 | 6.47E-06 | 3.20E-06 |
| 1470 | 259569.61 | 4084688.49 | 8.40E-06 | 1.21E-04 | 8.95E-05 | 8.95E-05 | 4.99E-05 | 1.27E-06 | 1.85E-05 | 1.40E-05 | 1.40E-05 | 7.68E-06 | 6.92E-07 | 1.00E-05 | 6.22E-06 | 6.22E-06 | 3.08E-06 |
| 1471 | 259579.45 | 4084710.22 | 8.08E-06 | 1.17E-04 | 8.62E-05 | 8.62E-05 | 4.80E-05 | 1.23E-06 | 1.78E-05 | 1.35E-05 | 1.35E-05 | 7.40E-06 | 6.66E-07 | 9.64E-06 | 5.98E-06 | 5.98E-06 | 2.96E-06 |
| 1472 | 259589.28 | 4084731.96 | 7.79E-06 | 1.13E-04 | 8.31E-05 | 8.31E-05 | 4.63E-05 | 1.18E-06 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.13E-06 | 6.42E-07 | 9.29E-06 | 5.77E-06 | 5.77E-06 | 2.86E-06 |
| 1473 | 259599.12 | 4084753.7 | 7.52E-06 | 1.09E-04 | 8.02E-05 | 8.02E-05 | 4.47E-05 | 1.14E-06 | 1.66E-05 | 1.25E-05 | 1.25E-05 | 6.89E-06 | 6.20E-07 | 8.97E-06 | 5.57E-06 | 5.57E-06 | 2.76E-06 |
| 1474 | 259608.95 | 4084775.44 | 7.25E-06 | 1.05E-04 | 7.76E-05 | 7.76E-05 | 4.33E-05 | 1.10E-06 | 1.60E-05 | 1.21E-05 | 1.21E-06 | 6.66E-06 | 6.00E-07 | 8.68E-06 | 5.39E-06 | 5.39E-06 | 2.67E-06 |
| 1475 | 259618.79 | 4084797.18 | 7.05E-06 | 1.02E-04 | 7.51E-05 | 7.51E-05 | 4.19E-05 | 1.07E-06 | 1.55E-05 | 1.17E-05 | 1.17E-05 | 6.45E-06 | 5.81E-07 | 8.40E-06 | 5.22E-06 | 5.22E-06 | 2.58E-06 |
| 1476 | 259628.62 | 4084818.92 | 6.83E-06 | 9.87E-05 | 7.28E-05 | 7.28E-05 | 4.06E-05 | 1.04E-06 | 1.50E-05 | 1.14E-05 | 1.14E-05 | 6.25E-06 | 5.63E-07 | 8.14E-06 | 5.05E-06 | 5.05E-06 | 2.50E-06 |
| 1477 | 259638.46 | 4084840.66 | 6.60E-06 | 9.55E-05 | 7.04E-05 | 7.04E-05 | 3.93E-05 | 1.00E-06 | 1.46E-05 | 1.10E-06 | 1.10E-05 | 6.04E-06 | 5.44E-07 | 7.87E-06 | 4.89E-06 | 4.89E-06 | 2.42E-06 |
| 1478 | 259648.29 | 4084862.4 | 6.36E-06 | 9.23E-05 | 6.80E-05 | 6.80E-05 | 3.79E-05 | 9.69E-07 | 1.41E-05 | 1.06E-05 | 1.06E-06 | 5.84E-06 | 5.26E-07 | 7.61E-06 | 4.73E-06 | 4.73E-06 | 2.34E-06 |
| 1479 | 258305.28 | 4083623.16 | 2.52E-06 | 3.65E-05 | 2.69E-05 | 2.69E-05 | 1.50E-05 | 3.83E-07 | 5.56E-06 | 4.20E-06 | 4.20E-06 | 2.31E-06 | 2.08E-07 | 3.01E-06 | 1.87E-06 | 1.87E-06 | 9.25E-07 |
| 1480 | 258280.95 | 4083624.16 | 2.46E-06 | 3.56E-05 | 2.63E-05 | 2.63E-05 | 1.46E-05 | 3.74E-07 | 5.43E-06 | 4.10E-06 | 4.10E-06 | 2.25E-06 | 2.03E-07 | 2.94E-06 | 1.82E-06 | 1.82E-06 | 9.03E-07 |
| 1481 | 258256.62 | 4083625.15 | 2.41E-06 | 3.48E-05 | 2.56E-05 | 2.56E-05 | 1.43E-05 | 3.65E-07 | 5.30E-06 | 4.00E-06 | 4.00E-06 | 2.20E-06 | 1.98E-07 | 2.87E-06 | 1.78E-06 | 1.78E-06 | 8.82E-07 |
| 1482 | 258232.29 | 4083626.16 | 2.35E-06 | 3.40E-05 | 2.51E-05 | 2.51E-05 | 1.40E-05 | 3.57E-07 | 5.18E-06 | 3.91E-06 | 3.91E-06 | 2.15E-06 | 1.94E-07 | 2.80E-06 | 1.74E-06 | 1.74E-06 | 8.62E-07 |
| 1483 | 258207.95 | 4083627.16 | 2.30E-06 | 3.32E-05 | 2.45E-05 | 2.45E-05 | 1.36E-05 | 3.48E-07 | 5.06E-06 | 3.82E-06 | 3.82E-06 | 2.10E-06 | 1.89E-07 | 2.74E-06 | 1.70E-06 | 1.70E-06 | 8.41E-07 |
| 1484 | 258183.62 | 4083628.16 | 2.24E-06 | 3.24E-05 | 2.39E-05 | 2.39E-05 | 1.33E-05 | 3.40E-07 | 4.94E-06 | 3.73E-06 | 3.73E-06 | 2.05E-06 | 1.85E-07 | 2.67E-06 | 1.66E-06 | 1.66E-06 | 8.22E-07 |
| 1485 | 258159.29 | 4083629.16 | 2.19E-06 | 3.17E-05 | 2.33E-05 | 2.33E-05 | 1.30E-05 | 3.32E-07 | 4.82E-06 | 3.64E-06 | 3.64E-06 | 2.00E-06 | 1.80E-07 | 2.61E-06 | 1.62E-06 | 1.62E-06 | 8.02E-07 |
| 1486 | 258134.96 | 4083630.16 | 2.14E-06 | 3.09E-05 | 2.28E-05 | 2.28E-05 | 1.27E-05 | 3.24E-07 | 4.70E-06 | 3.55E-06 | 3.55E-06 | 1.95E-06 | 1.76E-07 | 2.55E-06 | 1.58E-06 | 1.58E-06 | 7.83E-07 |
| 1487 | 258110.63 | 4083631.16 | 2.08E-06 | 3.01E-05 | 2.22E-05 | 2.22E-05 | 1.24E-05 | 3.16E-07 | 4.59E-06 | 3.47E-06 | 3.47E-06 | 1.91E-06 | 1.72E-07 | 2.48E-06 | 1.54E-06 | 1.54E-06 | 7.63E-07 |
| 1488 | 258086.29 | 4083632.16 | 2.03E-06 | 2.94E-05 | 2.16E-05 | 2.16E-05 | 1.21E-05 | 3.08E-07 | 4.47E-06 | 3.38E-06 | 3.38E-06 | 1.86E-06 | 1.67E-07 | 2.42E-06 | 1.50E-06 | 1.50E-06 | 7.44E-07 |
| 1489 | 258061.96 | 4083633.16 | 1.98E-06 | 2.87E-05 | 2.11E-05 | 2.11E-05 | 1.18E-05 | 3.01E-07 | 4.37E-06 | 3.30E-06 | 3.30E-06 | 1.81E-06 | 1.63E-07 | 2.36E-06 | 1.47E-06 | 1.47E-06 | 7.25E-07 |
| 1490 | 258037.63 | 4083634.16 | 1.93E-06 | 2.79E-05 | 2.06E-05 | 2.06E-05 | 1.15E-05 | 2.93E-07 | 4.26E-06 | 3.22E-06 | 3.22E-06 | 1.77E-06 | 1.59E-07 | 2.30E-06 | 1.43E-06 | 1.43E-06 | 7.08E-07 |
| 1491 | 258013.3 | 4083435.16 | 1.88E-06 | 2.72E-05 | 2.01E-05 | 2.01E-05 | 1.12E-05 | 2.86E-07 | 4.15E-06 | 3.13E-06 | 3.13E-06 | 1.72E-06 | 1.55E-07 | 2.25E-06 | 1.39E-06 | 1.39E-06 | 6.90E-07 |
| 1492 | 257988.97 | 4083636.16 | 1.84E-06 | 2.66E-05 | 1.96E-05 | 1.96E-05 | 1.09E-05 | 2.79E-07 | 4.05E-06 | 3.06E-06 | 3.06E-06 | 1.68E-06 | 1.52E-07 | 2.19E-06 | 1.36E-06 | 1.36E-06 | 6.74E-07 |
| 1493 | 257964.64 | 4083637.16 | 1.79E-06 | 2.59E-05 | 1.91E-05 | 1.91E-05 | 1.07E-05 | 2.72E-07 | 3.95E-06 | 2.98E-06 | 2.98E-06 | 1.64E-06 | 1.48E-07 | 2.14E-06 | 1.33E-06 | 1.33E-06 | 6.57E-07 |
| 1494 | 257940.3 | 4083638.16 | 1.75E-06 | 2.53E-05 | 1.87E-05 | 1.87E-05 | 1.04E-05 | 2.66E-07 | 3.86E-06 | 2.92E-06 | 2.92E-06 | 1.60E-06 | 1.44E-07 | 2.09E-06 | 1.30E-06 | 1.30E-06 | 6.42E-07 |
| 1495 | 257915.97 | 4083639.16 | 1.71E-06 | 2.47E-05 | 1.82E-05 | 1.82E-05 | 1.02E-05 | 2.60E-07 | 3.77E-06 | 2.85E-06 | 2.85E-06 | 1.57E-06 | 1.41E-07 | 2.04E-06 | 1.27E-06 | 1.27E-06 | 6.27E-07 |
| 1496 | 257891.64 | 4083640.16 | 1.67E-06 | 2.42E-05 | 1.78E-05 | 1.78E-05 | 9.94E-06 | 2.54E-07 | 3.68E-06 | 2.78E-06 | 2.78E-06 | 1.53E-06 | 1.36E-07 | 1.99E-06 | 1.24E-06 | 1.24E-06 | 6.13E-07 |
| 1497 | 257867.31 | 4083641.16 | 1.64E-06 | 2.37E-05 | 1.75E-05 | 1.75E-06 | 9.73E-06 | 2.48E-07 | 3.61E-06 | 2.73E-06 | 2.73E-06 | 1.50E-06 | 1.35E-07 | 1.95E-06 | 1.21E-06 | 1.21E-06 | 6.00E-07 |
| 1498 | 257842.98 | 4083642.16 | 1.60E-06 | 2.32E-05 | 1.71E-05 | 1.71E-05 | 9.52E-06 | 2.43E-07 | 3.53E-06 | 2.67E-06 | 2.67E-06 | 1.47E-06 | 1.32E-07 | 1.91E-06 | 1.19E-06 | 1.19E-06 | 5.87E-07 |
| 1499 | 257818.64 | 4083643.16 | 1.57E-06 | 2.27E-05 | 1.68E-05 | 1.68E-05 | 9.34E-06 | 2.39E-07 | 3.46E-06 | 2.62E-06 | 2.62E-06 | 1.44E-06 | 1.30E-07 | 1.87E-06 | 1.16E-06 | 1.16E-06 | 5.76E-07 |
| 1500 | 257794.31 | 4083644.16 | 1.54E-06 | 2.23E-05 | 1.64E-05 | 1.64E-05 | 9.17E-06 | 2.34E-07 | 3.40E-06 | 2.57E-06 | 2.57E-06 | 1.41E-06 | 1.27E-07 | 1.64E-06 | 1.14E-06 | 1.14E-06 | 5.66E-07 |
| 1501 | 257769.98 | 4083645.16 | 1.52E-06 | 2.19E-05 | 1.62E-05 | 1.62E-05 | 9.01E-06 | 2.30E-07 | 3.34E-06 | 2.52E-06 | 2.52E-06 | 1.39E-06 | 1.25E-07 | 1.81E-06 | 1.12E-06 | 1.12E-06 | 5.56E-07 |
| 1502 | 257745.65 | 4083646.16 | 1.49E-06 | 2.15E-05 | 1.59E-05 | 1.59E-05 | 8.85E-06 | 2.26E-07 | 3.28E-06 | 2.48E-06 | 2.48E-06 | 1.36E-06 | 1.23E-07 | 1.78E-06 | 1.10E-06 | 1.10E-06 | 5.46E-07 |
| 1503 | 257721.32 | 4083647.16 | 1.47E-06 | 2.12E-05 | 1.56E-05 | 1.56E-05 | 8.72E-06 | 2.23E-07 | 3.23E-06 | 2.44E-06 | 2.44E-06 | 1.34E-06 | 1.21E-07 | 1.75E-06 | 1.09E-06 | 1.09E-06 | 5.38E-07 |
| 1504 | 257696.99 | 4083648.16 | 1.45E-06 | 2.09E-05 | 1.54E-05 | 1.54E-05 | 8.60E-06 | 2.20E-07 | 3.19E-06 | 2.41E-06 | 2.41E-06 | 1.32E-06 | 1.19E-07 | 1.72E-06 | 1.07E-06 | 1.07E-06 | 5.30E-07 |
| 1505 | 257672.65 | 4083649.17 | 1.43E-06 | 2.06E-05 | 1.52E-05 | 1.52E-05 | 8.48E-06 | 2.16E-07 | 3.14E-06 | 2.37E-06 | 2.37E-06 | 1.31E-06 | 1.18E-07 | 1.70E-06 | 1.06E-06 | 1.06E-06 | 5.23E-07 |
| 1506 | 257648.32 | 4083650.17 | 1.41E-06 | 2.04E-05 | 1.50E-05 | 1.50E-05 | 8.37E-06 | 2.14E-07 | 3.10E-06 | 2.34E-06 | 2.34E-06 | 1.29E-06 | 1.16E-07 | 1.68E-06 | 1.04E-06 | 1.04E-06 | 5.16E-07 |
| 1507 | 257623.99 | 4083651.17 | 1.39E-06 | 2.01E-05 | 1.48E-05 | 1.48E-06 | 8.26E-06 | 2.11E-07 | 3.06E-06 | 2.31E-06 | 2.31E-06 | 1.27E-06 | 1.15E-07 | 1.66E-06 | 1.03E-06 | 1.03E-06 | 5.09E-07 |
| 1508 | 257599.66 | 4083652.17 | 1.37E-06 | 1.99E-05 | 1.46E-05 | 1.46E-06 | 8.16E-06 | 2.08E-07 | 3.03E-06 | 2.29E-06 | 2.29E-06 | 1.26E-06 | 1.13E-07 | 1.64E-06 | 1.02E-06 | 1.02E-06 | 5.03E-07 |
| 1509 | 257575.33 | 4083653.17 | 1.36E-06 | 1.96E-05 | 1.45E-05 | 1.45E-05 | 8.06E-06 | 2.06E-07 | 2.99E-06 | 2.26E-06 | 2.26E-06 | 1.24E-06 | 1.12E-07 | 1.62E-06 | 1.00E-06 | 1.00E-06 | 4.97E-07 |
| 1510 | 257550.99 | 4083654.17 | 1.34E-06 | 1.94E-05 | 1.43E-05 | 1.43E-05 | 7.96E-06 | 2.03E-07 | 2.95E-06 | 2.23E-06 | 2.23E-06 | 1.23E-06 | 1.10E-07 | 1.60E-06 | 9.92E-07 | 9.92E-07 | 4.91E-07 |
| 1511 | 257526.66 | 4083655.17 | 1.33E-06 | 1.92E-05 | 1.41E-05 | 1.41E-05 | 7.88E-06 | 2.01E-07 | 2.92E-06 | 2.21E-06 | 2.21E-06 | 1.21E-06 | 1.09E-07 | 1.58E-06 | 9.82E-07 | 9.82E-07 | 4.86E-07 |
| 1512 | 257502.33 | 4083656.17 | 1.31E-06 | 1.89E-05 | 1.40E-05 | 1.40E-05 | 7.78E-06 | 1.99E-07 | 2.89E-06 | 2.18E-06 | 2.18E-06 | 1.20E-06 | 1.08E-07 | 1.56E-06 | 9.70E-07 | 9.70E-07 | 4.80E-07 |
| 1513 | 258319.66 | 4083431.69 | 1.93E-06 | 2.79E-05 | 2.06E-05 | 2.06E-05 | 1.15E-05 | 2.93E-07 | 4.26E-06 | 3.22E-06 | 3.22E-06 | 1.77E-06 | 1.59E-07 | 2.30E-06 | 1.43E-06 | 1.43E-06 | 7.08E-07 |
| 1514 | 258342.25 | 4083440.05 | 2.00E-06 | 2.89E-05 | 2.13E-05 | 2.13E-05 | 1.19E-05 | 3.03E-07 | 4.40E-06 | 3.32E-06 | 3.32E-06 | 1.83E-06 | 1.65E-07 | 2.38E-06 | 1.48E-06 | 1.48E-06 | 7.32E-07 |
| 1515 | 258364.84 | 4083448.42 | 2.06E-06 | 2.98E-05 | 2.20E-05 | 2.20E-05 | 1.23E-05 | 3.13E-07 | 4.54E-06 | 3.43E-06 | 3.43E-06 | 1.89E-06 | 1.70E-07 | 2.46E-06 | 1.53E-06 | 1.53E-06 | 7.56E-07 |
| 1516 | 258387.43 | 4083456.78 | 2.13E-06 | 3.08E-05 | 2.27E-05 | 2.27E-05 | 1.27E-05 | 3.23E-07 | 4.70E-06 | 3.55E-06 | 3.55E-06 | 1.95E-06 | 1.76E-07 | 2.54E-06 | 1.58E-06 | 1.58E-06 | 7.81E-07 |
| 1517 | 258410.02 | 4083465.15 | 2.20E-06 | 3.19E-05 | 2.35E-05 | 2.35E-06 | 1.31E-06 | 3.35E-07 | 4.86E-06 | 3.67E-06 | 3.67E-06 | 2.02E-06 | 1.82E-07 | 2.63E-06 | 1.63E-06 | 1.63E-06 | 8.08E-07 |
| 1518 | 258432.61 | 4083473.51 | 2.28E-06 | 3.30E-05 | 2.44E-05 | 2.44E-05 | 1.36E-05 | 3.47E-07 | 5.03E-06 | 3.80E-06 | 3.80E-06 | 2.09E-06 | 1.88E-07 | 2.72E-06 | 1.69E-06 | 1.69E-06 | 8.38E-07 |
| 1519 | 258455.2 | 4083481.87 | 2.37E-06 | 3.42E-05 | 2.52E-05 | 2.52E-05 | 1.41E-05 | 3.59E-07 | 5.21E-06 | 3.94E-06 | 3.94E-06 | 2.17E-06 | 1.95E-07 | 2.82E-06 | 1.75E-06 | 1.75E-06 | 8.68E-07 |
| 1520 | 258477.79 | 4083490.24 | 2.45E-06 | 3.55E-05 | 2.62E-05 | 2.62E-05 | 1.46E-05 | 3.73E-07 | 5.41E-06 | 4.09E-06 | 4.09E-06 | 2.25E-06 | 2.02E-07 | 2.93E-06 | 1.82E-06 | 1.82E-06 | 9.00E-07 |
| 1521 | 258500.38 | 4083498.6 | 2.55E-06 | 3.68E-05 | 2.72E-05 | 2.72E-05 | 1.51E-05 | 3.87E-07 | 5.61E-06 | 4.24E-06 | 4.24E-06 | 2.33E-06 | 2.10E-07 | 3.04E-06 | 1.89E-06 | 1.89E-06 | 9.34E-07 |
| 1522 | 258522.97 | 4083506.97 | 2.65E-06 | 3.83E-05 | 2.82E-05 | 2.82E-05 | 1.57E-05 | 4.02E-07 | 5.83E-06 | 4.41E-06 | 4.41E-06 | 2.42E-06 | 2.18E-07 | 3.16E-06 | 1.96E-06 | 1.96E-06 | 9.70E-07 |
| 1523 | 258545.57 | 4083515.33 | 2.75E-06 | 3.98E-05 | 2.94E-05 | 2.94E-05 | 1.64E-05 | 4.18E-07 | 6.07E-06 | 4.58E-06 | 4.58E-06 | 2.52E-06 | 2.27E-07 | 3.28E-06 | 2.04E-06 | 2.04E-06 | 1.01E-06 |
| 1524 | 258568.16 | 4083523.69 | 2.87E-06 | 4.15E-05 | 3.06E-05 | 3.06E-05 | 1.70E-05 | 4.35E-07 | 6.32E-06 | 4.77E-06 | 4.77E-06 | 2.62E-06 | 2.36E-07 | 3.42E-06 | 2.12E-06 | 2.12E-06 | 1.05E-06 |
| 1525 | 258590.75 | 4083532.06 | 2.99E-06 | 4.32E-05 | 3.18E-05 | 3.18E-05 | 1.78E-05 | 4.53E-07 | 6.56E-06 | 4.97E-06 | 4.97E-06 | 2.73E-06 | 2.46E-07 | 3.56E-06 | 2.21E-06 | 2.21E-06 | 1.10E-06 |
| 1526 | 258613.34 | 4083540.42 | 3.12E-06 | 4.51E-05 | 3.32E-05 | 3.32E-05 | 1.85E-05 | 4.73E-07 | 6.87E-06 | 5.19E-06 | 5.19E-06 | 2.85E-06 | 2.57E-07 | 3.72E-06 | 2.31E-06 | 2.31E-06 | 1.14E-06 |
| 1527 | 258635.93 | 4083548.79 | 3.25E-06 | 4.71E-05 | 3.47E-05 | 3.47E-05 | 1.93E-05 | 4.94E-07 | 7.17E-06 | 5.42E-06 | 5.42E-06 | 2.98E-06 | 2.68E-07 | 3.88E-06 | 2.41E-06 | 2.41E-06 | 1.19E-06 |
| 1528 | 258658.52 | 4083557.15 | 3.40E-06 | 4.92E-05 | 3.63E-05 | 3.63E-05 | 2.02E-05 | 5.16E-07 | 7.49E-06 | 5.66E-06 | 5.66E-06 | 3.11E-06 | 2.80E-07 | 4.06E-06 | 2.52E-06 | 2.52E-06 | 1.25E-06 |
| 1529 | 258681.11 | 4083565.51 | 3.56E-06 | 5.15E-05 | 3.79E-05 | 3.79E-05 | 2.11E-05 | 5.40E-07 | 7.84E-06 | 5.92E-06 | 5.92E-06 | 3.26E-06 | 2.93E-07 | 4.24E-06 | 2.63E-06 | 2.63E-06 | 1.30E-06 |
| 1530 | 258703.7 | 4083573.88 | 3.72E-06 | 5.38E-05 | 3.96E-05 | 3.96E-05 | 2.21E-05 | 5.64E-07 | 8.19E-06 | 6.19E-06 | 6.19E-06 | 3.40E-06 | 3.07E-07 | 4.43E-06 | 2.75E-06 | 2.75E-06 | 1.36E-06 |
| 1531 | 258726.29 | 4083582.24 | 3.89E-06 | 5.63E-05 | 4.15E-05 | 4.15E-05 | 2.31E-05 | 5.91E-07 | 8.57E-06 | 6.48E-06 | 6.48E-06 | 3.56E-06 | 3.21E-07 | 4.64E-06 | 2.88E-06 | 2.88E-06 | 1.43E-06 |
| 1532 | 258748.88 | 4083590.61 | 4.07E-06 | 5.89E-05 | 4.34E-05 | 4.34E-05 | 2.42E-05 | 6.18E-07 | 8.97E-06 | 6.77E-06 | 6.77E-06 | 3.72E-06 | 3.35E-07 | 4.85E-06 | 3.01E-06 | 3.01E-06 | 1.49E-06 |
| 1533 | 258771.48 | 4083598.97 | 4.25E-06 | 6.15E-05 | 4.53E-05 | 4.53E-05 | 2.53E-05 | 6.46E-07 | 9.37E-06 | 7.08E-06 | 7.08E-06 | 3.89E-06 | 3.51E-07 | 5.07E-06 | 3.15E-06 | 3.15E-06 | 1.56E-06 |
| 1534 | 258794.07 | 4083607.33 | 4.45E-06 | 6.43E-05 | 4.74E-05 | 4.74E-05 | 2.64E-05 | 6.75E-07 | 9.80E-06 | 7.40E-06 | 7.40E-06 | 4.07E-06 | 3.67E-07 | 5.30E-06 | 3.29E-06 | 3.29E-06 | 1.63E-06 |
| 1535 | 258816.66 | 4083615.7 | 4.65E-06 | 6.72E-05 | 4.95E-05 | 4.95E-05 | 2.76E-05 | 7.05E-07 | 1.02E-05 | 7.73E-06 | 7.73E-06 | 4.25E-06 | 3.83E-07 | 5.54E-06 | 3.44E-06 | 3.44E-06 | 1.70E-06 |
| 1536 | 258839.25 | 4083624.06 | 4.85E-06 | 7.02E-05 | 5.17E-05 | 5.17E-05 | 2.88E-05 | 7.36E-07 | 1.07E-05 | 8.07E-06 | 8.07E-06 | 4.44E-06 | 4.00E-07 | 5.78E-06 | 3.59E-06 | 3.59E-06 | 1.78E-06 |
| 1537 | 258861.64 | 4083632.43 | 5.06E-06 | 7.32E-05 | 5.39E-05 | 5.39E-05 | 3.01E-05 | 7.68E-07 | 1.11E-05 | 8.42E-06 | 8.42E-06 | 4.63E-06 | 4.17E-07 | 6.03E-06 | 3.75E-06 | 3.75E-06 | 1.85E-06 |
| 1538 | 258884.43 | 4083640.79 | 5.27E-06 | 7.63E-05 | 5.62E-05 | 5.62E-05 | 3.13E-05 | 8.00E-07 | 1.16E-05 | 8.78E-06 | 8.78E-06 | 4.83E-06 | 4.35E-07 | 6.29E-06 | 3.91E-06 | 3.91E-06 | 1.93E-06 |
| 1539 | 258907.02 | 4083649.15 | 5.49E-06 | 7.95E-05 | 5.86E-05 | 5.86E-05 | 3.27E-05 | 8.34E-07 | 1.21E-05 | 9.14E-06 | 9.14E-06 | 5.03E-06 | 4.53E-07 | 6.55E-06 | 4.07E-06 | 4.07E-06 | 2.01E-06 |
| 1540 | 258929.61 | 4083657.52 | 5.72E-06 | 8.27E-05 | 6.10E-05 | 6.10E-05 | 3.40E-05 | 8.68E-07 | 1.26E-06 | 9.52E-06 | 9.52E-06 | 5.23E-06 | 4.71E-07 | 6.82E-06 | 4.24E-06 | 4.24E-06 | 2.10E-06 |
| 1541 | 258952.2 | 4083665.88 | 5.95E-06 | 8.60E-05 | 6.34E-05 | 6.34E-05 | 3.53E-05 | 9.02E-07 | 1.31E-05 | 9.90E-06 | 9.90E-06 | 5.44E-06 | 4.90E-07 | 7.09E-06 | 4.40E-06 | 4.40E-06 | 2.18E-06 |
| 1542 | 258974.79 | 4083674.25 | 6.16E-06 | 8.94E-05 | 6.59E-05 | 6.59E-05 | 3.67E-05 | 9.38E-07 | 1.36E-05 | 1.03E-05 | 1.03E-06 | 5.65E-06 | 5.09E-07 | 7.37E-06 | 4.58E-06 | 4.58E-06 | 2.26E-06 |
| 1543 | 258997.38 | 4083682.61 | 6.41E-06 | 9.27E-05 | 6.84E-05 | 6.84E-05 | 3.81E-05 | 9.73E-07 | 1.41E-05 | 1.07E-05 | 1.07E-05 | 5.87E-06 | 5.29E-07 | 7.64E-06 | 4.75E-06 | 4.75E-06 | 2.35E-06 |
| 1544 | 259019.98 | 4083690.97 | 6.65E-06 | 9.61E-05 | 7.09E-05 | 7.09E-05 | 3.95E-05 | 1.01E-06 | 1.46E-05 | 1.11E-05 | 1.11E-05 | 6.08E-06 | 5.48E-07 | 7.92E-06 | 4.92E-06 | 4.92E-06 | 2.44E-06 |
| 1545 | 259042.57 | 4083699.34 | 6.88E-06 | 9.96E-05 | 7.34E-05 | 7.34E-05 | 4.09E-05 | 1.04E-06 | 1.52E-05 | 1.15E-05 | 1.15E-06 | 6.30E-06 | 5.67E-07 | 8.21E-06 | 5.10E-06 | 5.10E-06 | 2.52E-06 |
| 1546 | 259065.16 | 4083707.7 | 7.12E-06 | 1.03E-04 | 7.59E-05 | 7.59E-05 | 4.23E-05 | 1.08E-06 | 1.57E-06 | 1.18E-05 | 1.18E-06 | 6.51E-06 | 5.87E-07 | 8.48E-06 | 5.27E-06 | 5.27E-06 | 2.61E-06 |
| 1547 | 259087.75 | 4083716.07 | 7.35E-06 | 1.06E-04 | 7.83E-05 | 7.83E-05 | 4.37E-05 | 1.12E-06 | 1.62E-05 | 1.22E-05 | 1.22E-05 | 6.72E-06 | 6.06E-07 | 8.76E-06 | 5.44E-06 | 5.44E-06 | 2.69E-06 |
| 1548 | 259110.34 | 4083724.43 | 7.58E-06 | 1.10E-04 | 8.08E-05 | 8.08E-05 | 4.50E-05 | 1.15E-06 | 1.67E-05 | 1.26E-05 | 1.26E-05 | 6.93E-06 | 6.25E-07 | 9.03E-06 | 5.61E-06 | 5.61E-06 | 2.78E-06 |
| 1549 | 259132.93 | 4083732.79 | 7.80E-06 | 1.13E-04 | 8.32E-05 | 8.32E-05 | 4.64E-05 | 1.18E-06 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.14E-06 | 6.43E-07 | 9.30E-06 | 5.78E-06 | 5.78E-06 | 2.86E-06 |
| 1550 | 259155.52 | 4083741.16 | 8.02E-06 | 1.16E-04 | 8.55E-05 | 8.55E-05 | 4.76E-05 | 1.22E-06 | 1.77E-05 | 1.33E-05 | 1.33E-05 | 7.34E-06 | 6.61E-07 | 9.56E-06 | 5.94E-06 | 5.94E-06 | 2.94E-06 |
| 1551 | 259178.11 | 4083749.52 | 8.22E-06 | 1.19E-04 | 8.77E-05 | 8.77E-05 | 4.89E-05 | 1.25E-06 | 1.81E-05 | 1.37E-05 | 1.37E-05 | 7.52E-06 | 6.78E-07 | 9.80E-06 | 6.09E-06 | 6.09E-06 | 3.01E-06 |
| 1552 | 259200.7 | 4083757.89 | 8.42E-06 | 1.22E-04 | 8.98E-05 | 8.98E-05 | 5.00E-05 | 1.28E-06 | 1.86E-06 | 1.40E-05 | 1.40E-05 | 7.70E-06 | 6.94E-07 | 1.00E-05 | 6.24E-06 | 6.24E-06 | 3.09E-06 |
| 1553 | 259223.29 | 4083766.25 | 8.60E-06 | 1.24E-04 | 9.17E-05 | 9.17E-05 | 5.11E-05 | 1.31E-06 | 1.90E-05 | 1.43E-05 | 1.43E-05 | 7.87E-06 | 7.09E-07 | 1.03E-05 | 6.37E-06 | 6.37E-06 | 3.15E-06 |
| 1554 | 259245.88 | 4083774.61 | 8.77E-06 | 1.27E-04 | 9.35E-05 | 9.35E-05 | 5.21E-05 | 1.33E-06 | 1.93E-05 | 1.46E-05 | 1.46E-05 | 8.03E-06 | 7.23E-07 | 1.05E-05 | 6.50E-06 | 6.50E-06 | 3.22E-06 |
| 1555 | 259268.48 | 4083782.98 | 8.92E-06 | 1.29E-04 | 9.51E-05 | 9.51E-06 | 5.30E-05 | 1.35E-06 | 1.97E-06 | 1.49E-05 | 1.49E-05 | 8.17E-06 | 7.36E-07 | 1.06E-05 | 6.61E-06 | 6.61E-06 | 3.27E-06 |
| 1556 | 259291.07 | 4083791.34 | 9.06E-06 | 1.31E-04 | 9.66E-05 | 9.66E-05 | 5.39E-05 | 1.38E-06 | 2.00E-05 | 1.51E-05 | 1.51E-05 | 8.29E-06 | 7.47E-07 | 1.08E-05 | 6.71E-06 | 6.71E-06 | 3.32E-06 |
| 1557 | 259313.66 | 4083799.71 | 9.18E-06 | 1.33E-04 | 9.79E-05 | 9.79E-05 | 5.46E-05 | 1.39E-06 | 2.02E-05 | 1.53E-05 | 1.53E-05 | 8.40E-06 | 7.57E-07 | 1.09E-05 | 6.80E-06 | 6.80E-06 | 3.37E-06 |
| 1558 | 259336.25 | 4083808.07 | 9.29E-06 | 1.34E-04 | 9.90E-05 | 9.90E-05 | 5.52E-05 | 1.41E-06 | 2.05E-05 | 1.55E-05 | 1.55E-05 | 8.50E-06 | 7.66E-07 | 1.11E-05 | 6.88E-06 | 6.88E-06 | 3.40E-06 |
| 1559 | 259358.84 | 4083816.43 | 9.38E-06 | 1.36E-04 | 1.00E-04 | 1.00E-04 | 5.57E-05 | 1.42E-06 | 2.07E-05 | 1.56E-05 | 1.56E-05 | 8.58E-06 | 7.73E-07 | 1.12E-05 | 6.95E-06 | 6.95E-06 | 3.44E-06 |
| 1560 | 259391.36 | 4083846.75 | 9.69E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.76E-05 | 1.47E-06 | 2.13E-05 | 1.61E-05 | 1.61E-06 | 8.87E-06 | 7.99E-07 | 1.16E-05 | 7.17E-06 | 7.17E-06 | 3.55E-06 |
| 1561 | 259401.29 | 4083868.69 | 9.92E-06 | 1.43E-04 | 1.06E-04 | 1.06E-04 | 5.89E-05 | 1.51E-06 | 2.19E-05 | 1.65E-05 | 1.65E-05 | 9.08E-06 | 8.18E-07 | 1.18E-05 | 7.34E-06 | 7.34E-06 | 3.64E-06 |
| 1562 | 259411.22 | 4083890.64 | 1.01E-05 | 1.47E-04 | 1.08E-04 | 1.08E-04 | 6.02E-05 | 1.54E-06 | 2.23E-06 | 1.69E-05 | 1.69E-05 | 9.27E-06 | 8.35E-07 | 1.21E-05 | 7.51E-06 | 7.51E-06 | 3.72E-06 |
| 1563 | 259421.15 | 4083912.59 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.14E-05 | 1.57E-06 | 2.28E-06 | 1.72E-05 | 1.72E-05 | 9.46E-06 | 8.52E-07 | 1.23E-05 | 7.65E-06 | 7.65E-06 | 3.79E-06 |
| 1564 | 259431.08 | 4083934.54 | 1.05E-05 | 1.52E-04 | 1.12E-04 | 1.12E-04 | 6.25E-05 | 1.60E-06 | 2.32E-05 | 1.75E-05 | 1.75E-05 | 9.63E-06 | 8.67E-07 | 1.25E-06 | 7.79E-06 | 7.79E-06 | 3.86E-06 |
| 1565 | 259441.01 | 4083956.49 | 1.07E-05 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 6.35E-05 | 1.62E-06 | 2.36E-05 | 1.78E-05 | 1.78E-05 | 9.78E-06 | 8.81E-07 | 1.27E-05 | 7.92E-06 | 7.92E-06 | 3.92E-06 |
| 1566 | 259450.94 | 4083978.43 | 1.08E-05 | 1.57E-04 | 1.15E-04 | 1.15E-04 | 6.44E-05 | 1.64E-06 | 2.39E-05 | 1.80E-05 | 1.80E-05 | 9.91E-06 | 8.93E-07 | 1.29E-05 | 8.02E-06 | 8.02E-06 | 3.97E-06 |
| 1567 | 259460.87 | 4084000.38 | 1.10E-05 | 1.59E-04 | 1.17E-04 | 1.17E-04 | 6.51E-05 | 1.66E-06 | 2.41E-05 | 1.82E-05 | 1.82E-05 | 1.00E-05 | 9.03E-07 | 1.31E-05 | 8.12E-06 | 8.12E-06 | 4

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1362 | 259448.23 | 4084867.9 | 8.22E-06 | 1.19E-04 | 8.76E-05 | 8.76E-05 | 4.88E-05 | 1.25E-06 | 1.81E-05 | 1.37E-05 | 1.37E-05 | 7.52E-06 | 6.77E-07 | 9.80E-06 | 6.09E-06 | 6.09E-06 | 3.01E-06 |
| 1363 | 258313.5 | 4083822.99 | 3.68E-06 | 5.33E-05 | 3.93E-05 | 3.93E-05 | 2.19E-05 | 5.59E-07 | 8.12E-06 | 6.13E-06 | 6.13E-06 | 3.37E-06 | 3.04E-07 | 4.39E-06 | 2.73E-06 | 2.73E-06 | 1.35E-06 |
| 1364 | 258289.16 | 4083823.99 | 3.58E-06 | 5.17E-05 | 3.81E-05 | 3.81E-05 | 2.13E-05 | 5.43E-07 | 7.88E-06 | 5.95E-06 | 5.95E-06 | 3.27E-06 | 2.95E-07 | 4.26E-06 | 2.65E-06 | 2.65E-06 | 1.31E-06 |
| 1365 | 258264.83 | 4083824.99 | 3.47E-06 | 5.02E-05 | 3.70E-05 | 3.70E-05 | 2.06E-05 | 5.27E-07 | 7.65E-06 | 5.78E-06 | 5.78E-06 | 3.18E-06 | 2.86E-07 | 4.14E-06 | 2.57E-06 | 2.57E-06 | 1.27E-06 |
| 1366 | 258240.5 | 4083825.99 | 3.37E-06 | 4.88E-06 | 3.59E-05 | 3.59E-05 | 2.00E-05 | 5.12E-07 | 7.43E-06 | 5.61E-06 | 5.61E-06 | 3.08E-06 | 2.78E-07 | 4.02E-06 | 2.50E-06 | 2.50E-06 | 1.24E-06 |
| 1367 | 258216.17 | 4083826.99 | 3.27E-06 | 4.73E-05 | 3.49E-05 | 3.49E-05 | 1.94E-05 | 4.97E-07 | 7.21E-06 | 5.45E-06 | 5.45E-06 | 2.99E-06 | 2.70E-07 | 3.90E-06 | 2.42E-06 | 2.42E-06 | 1.20E-06 |
| 1368 | 258191.84 | 4083827.99 | 3.17E-06 | 4.59E-05 | 3.38E-05 | 3.38E-05 | 1.89E-05 | 4.82E-07 | 6.99E-06 | 5.28E-06 | 5.28E-06 | 2.90E-06 | 2.62E-07 | 3.78E-06 | 2.35E-06 | 2.35E-06 | 1.16E-06 |
| 1369 | 258167.51 | 4083828.99 | 3.08E-06 | 4.45E-05 | 3.28E-05 | 3.28E-05 | 1.83E-05 | 4.67E-07 | 6.79E-06 | 5.13E-06 | 5.13E-06 | 2.82E-06 | 2.54E-07 | 3.67E-06 | 2.28E-06 | 2.28E-06 | 1.13E-06 |
| 1370 | 258143.17 | 4083829.99 | 2.99E-06 | 4.32E-05 | 3.18E-05 | 3.18E-05 | 1.77E-05 | 4.53E-07 | 6.58E-06 | 4.97E-06 | 4.97E-06 | 2.73E-06 | 2.46E-07 | 3.56E-06 | 2.21E-06 | 2.21E-06 | 1.09E-06 |
| 1371 | 258118.84 | 4083830.99 | 2.89E-06 | 4.18E-06 | 3.08E-06 | 3.08E-05 | 1.72E-05 | 4.39E-07 | 6.38E-06 | 4.82E-06 | 4.82E-06 | 2.65E-06 | 2.38E-07 | 3.45E-06 | 2.14E-06 | 2.14E-06 | 1.06E-06 |
| 1372 | 258094.51 | 4083831.99 | 2.80E-06 | 4.05E-05 | 2.99E-05 | 2.99E-05 | 1.66E-05 | 4.25E-07 | 6.17E-06 | 4.66E-06 | 4.66E-06 | 2.56E-06 | 2.31E-07 | 3.34E-06 | 2.07E-06 | 2.07E-06 | 1.03E-06 |
| 1373 | 258070.18 | 4083832.99 | 2.71E-06 | 3.92E-05 | 2.89E-06 | 2.89E-06 | 1.61E-05 | 4.12E-07 | 5.98E-06 | 4.52E-06 | 4.52E-06 | 2.48E-06 | 2.24E-07 | 3.23E-06 | 2.01E-06 | 2.01E-06 | 9.95E-07 |
| 1374 | 258045.85 | 4083833.99 | 2.63E-06 | 3.80E-05 | 2.80E-05 | 2.80E-05 | 1.56E-05 | 3.99E-07 | 5.79E-06 | 4.38E-06 | 4.38E-06 | 2.41E-06 | 2.17E-07 | 3.13E-06 | 1.95E-06 | 1.95E-06 | 9.64E-07 |
| 1375 | 258021.51 | 4083834.99 | 2.55E-06 | 3.68E-05 | 2.72E-05 | 2.72E-05 | 1.51E-05 | 3.87E-07 | 5.61E-06 | 4.24E-06 | 4.24E-06 | 2.33E-06 | 2.10E-07 | 3.04E-06 | 1.89E-06 | 1.89E-06 | 9.34E-07 |
| 1376 | 257997.18 | 4083835.99 | 2.47E-06 | 3.57E-06 | 2.63E-05 | 2.63E-05 | 1.47E-05 | 3.75E-07 | 5.44E-06 | 4.11E-06 | 4.11E-06 | 2.26E-06 | 2.04E-07 | 2.94E-06 | 1.83E-06 | 1.83E-06 | 9.05E-07 |
| 1377 | 257972.85 | 4083836.99 | 2.39E-06 | 3.46E-05 | 2.55E-05 | 2.55E-05 | 1.42E-05 | 3.63E-07 | 5.27E-06 | 3.98E-06 | 3.98E-06 | 2.19E-06 | 1.97E-07 | 2.85E-06 | 1.77E-06 | 1.77E-06 | 8.77E-07 |
| 1378 | 257948.52 | 4083837.99 | 2.33E-06 | 3.36E-06 | 2.48E-05 | 2.48E-05 | 1.38E-05 | 3.53E-07 | 5.12E-06 | 3.87E-06 | 3.87E-06 | 2.13E-06 | 1.92E-07 | 2.77E-06 | 1.72E-06 | 1.72E-06 | 8.53E-07 |
| 1379 | 257924.19 | 4083838.99 | 2.26E-06 | 3.27E-05 | 2.41E-05 | 2.41E-05 | 1.34E-05 | 3.43E-07 | 4.98E-06 | 3.76E-06 | 3.76E-06 | 2.07E-06 | 1.86E-07 | 2.69E-06 | 1.67E-06 | 1.67E-06 | 8.28E-07 |
| 1380 | 257899.85 | 4083839.99 | 2.20E-06 | 3.18E-05 | 2.35E-05 | 2.35E-05 | 1.31E-05 | 3.34E-07 | 4.85E-06 | 3.66E-06 | 3.66E-06 | 2.01E-06 | 1.81E-07 | 2.62E-06 | 1.63E-06 | 1.63E-06 | 8.07E-07 |
| 1381 | 257875.52 | 4083840.99 | 2.14E-06 | 3.10E-05 | 2.28E-05 | 2.28E-06 | 1.27E-05 | 3.25E-07 | 4.72E-06 | 3.57E-06 | 3.57E-06 | 1.96E-06 | 1.77E-07 | 2.56E-06 | 1.59E-06 | 1.59E-06 | 7.86E-07 |
| 1382 | 257851.19 | 4083841.99 | 2.09E-06 | 3.03E-05 | 2.23E-05 | 2.23E-05 | 1.24E-05 | 3.18E-07 | 4.61E-06 | 3.48E-06 | 3.48E-06 | 1.91E-06 | 1.72E-07 | 2.49E-06 | 1.55E-06 | 1.55E-06 | 7.67E-07 |
| 1383 | 257826.86 | 4083842.99 | 2.05E-06 | 2.96E-06 | 2.18E-05 | 2.18E-05 | 1.22E-05 | 3.10E-07 | 4.51E-06 | 3.40E-06 | 3.40E-06 | 1.87E-06 | 1.69E-07 | 2.44E-06 | 1.51E-06 | 1.51E-06 | 7.50E-07 |
| 1384 | 257802.53 | 4083843.99 | 2.00E-06 | 2.90E-05 | 2.13E-06 | 2.13E-05 | 1.19E-05 | 3.04E-07 | 4.41E-06 | 3.33E-06 | 3.33E-06 | 1.83E-06 | 1.65E-07 | 2.39E-06 | 1.48E-06 | 1.48E-06 | 7.34E-07 |
| 1385 | 257778.2 | 4083845 | 1.96E-06 | 2.84E-05 | 2.09E-05 | 2.09E-05 | 1.17E-05 | 2.98E-07 | 4.33E-06 | 3.27E-06 | 3.27E-06 | 1.80E-06 | 1.62E-07 | 2.34E-06 | 1.45E-06 | 1.45E-06 | 7.20E-07 |
| 1386 | 257753.86 | 4083846 | 1.93E-06 | 2.79E-05 | 2.05E-05 | 2.06E-05 | 1.15E-05 | 2.93E-07 | 4.25E-06 | 3.21E-06 | 3.21E-06 | 1.76E-06 | 1.59E-07 | 2.30E-06 | 1.43E-06 | 1.43E-06 | 7.07E-07 |
| 1387 | 257729.53 | 4083847 | 1.90E-06 | 2.74E-06 | 2.02E-05 | 2.02E-05 | 1.13E-05 | 2.88E-07 | 4.18E-06 | 3.15E-06 | 3.15E-06 | 1.73E-06 | 1.56E-07 | 2.26E-06 | 1.40E-06 | 1.40E-06 | 6.95E-07 |
| 1388 | 257705.2 | 4083848 | 1.86E-06 | 2.70E-05 | 1.99E-06 | 1.99E-06 | 1.11E-06 | 2.83E-07 | 4.11E-06 | 3.10E-06 | 3.10E-06 | 1.71E-06 | 1.54E-07 | 2.22E-06 | 1.38E-06 | 1.38E-06 | 6.84E-07 |
| 1389 | 257680.87 | 4083849 | 1.84E-06 | 2.66E-05 | 1.96E-06 | 1.96E-05 | 1.09E-05 | 2.79E-07 | 4.05E-06 | 3.06E-06 | 3.06E-06 | 1.68E-06 | 1.52E-07 | 2.19E-06 | 1.36E-06 | 1.36E-06 | 6.74E-07 |
| 1390 | 257656.54 | 4083850 | 1.81E-06 | 2.62E-06 | 1.93E-06 | 1.93E-05 | 1.08E-06 | 2.75E-07 | 3.99E-06 | 3.02E-06 | 3.02E-06 | 1.66E-06 | 1.49E-07 | 2.16E-06 | 1.34E-06 | 1.34E-06 | 6.64E-07 |
| 1391 | 257632.21 | 4083851 | 1.79E-06 | 2.59E-05 | 1.91E-05 | 1.91E-05 | 1.06E-06 | 2.71E-07 | 3.94E-06 | 2.98E-06 | 2.98E-06 | 1.64E-06 | 1.47E-07 | 2.13E-06 | 1.32E-06 | 1.32E-06 | 6.56E-07 |
| 1392 | 257607.87 | 4083852 | 1.76E-06 | 2.55E-05 | 1.88E-05 | 1.88E-05 | 1.05E-05 | 2.68E-07 | 3.89E-06 | 2.94E-06 | 2.94E-06 | 1.61E-06 | 1.45E-07 | 2.10E-06 | 1.31E-06 | 1.31E-06 | 6.47E-07 |
| 1393 | 257583.54 | 4083853 | 1.74E-06 | 2.52E-05 | 1.86E-06 | 1.86E-05 | 1.04E-05 | 2.64E-07 | 3.84E-06 | 2.90E-06 | 2.90E-06 | 1.59E-06 | 1.44E-07 | 2.08E-06 | 1.29E-06 | 1.29E-06 | 6.38E-07 |
| 1394 | 257559.21 | 4083854 | 1.72E-06 | 2.49E-05 | 1.83E-05 | 1.83E-05 | 1.02E-05 | 2.61E-07 | 3.79E-06 | 2.86E-06 | 2.86E-06 | 1.57E-06 | 1.42E-07 | 2.05E-06 | 1.27E-06 | 1.27E-06 | 6.30E-07 |
| 1395 | 257534.88 | 4083855 | 1.69E-06 | 2.45E-05 | 1.81E-05 | 1.81E-05 | 1.01E-05 | 2.57E-07 | 3.73E-06 | 2.82E-06 | 2.82E-06 | 1.55E-06 | 1.40E-07 | 2.02E-06 | 1.25E-06 | 1.25E-06 | 6.21E-07 |
| 1396 | 257510.55 | 4083856 | 1.67E-06 | 2.42E-05 | 1.78E-05 | 1.78E-05 | 9.94E-06 | 2.54E-07 | 3.68E-06 | 2.78E-06 | 2.78E-06 | 1.53E-06 | 1.38E-07 | 1.99E-06 | 1.24E-06 | 1.24E-06 | 6.13E-07 |
| 1397 | 258327.66 | 4083631.44 | 2.62E-06 | 3.79E-05 | 2.79E-05 | 2.79E-05 | 1.56E-06 | 3.97E-07 | 5.77E-06 | 4.36E-06 | 4.36E-06 | 2.40E-06 | 2.16E-07 | 3.12E-06 | 1.94E-06 | 1.94E-06 | 9.60E-07 |
| 1398 | 258350.03 | 4083639.73 | 2.72E-06 | 3.94E-05 | 2.90E-05 | 2.90E-05 | 1.62E-06 | 4.13E-07 | 6.00E-06 | 4.53E-06 | 4.53E-06 | 2.49E-06 | 2.24E-07 | 3.24E-06 | 2.02E-06 | 2.02E-06 | 9.98E-07 |
| 1399 | 258372.41 | 4083648.01 | 2.83E-06 | 4.09E-05 | 3.02E-05 | 3.02E-06 | 1.68E-05 | 4.29E-07 | 6.24E-06 | 4.71E-06 | 4.71E-06 | 2.59E-06 | 2.33E-07 | 3.37E-06 | 2.10E-06 | 2.10E-06 | 1.04E-06 |
| 1400 | 258394.78 | 4083656.29 | 2.95E-06 | 4.26E-05 | 3.14E-06 | 3.14E-05 | 1.75E-05 | 4.47E-07 | 6.49E-06 | 4.90E-06 | 4.90E-06 | 2.70E-06 | 2.43E-07 | 3.51E-06 | 2.18E-06 | 2.18E-06 | 1.08E-06 |
| 1401 | 258417.16 | 4083664.58 | 3.07E-06 | 4.45E-05 | 3.28E-05 | 3.28E-05 | 1.83E-05 | 4.66E-07 | 6.77E-06 | 5.12E-06 | 5.12E-06 | 2.81E-06 | 2.53E-07 | 3.66E-06 | 2.28E-06 | 2.28E-06 | 1.13E-06 |
| 1402 | 258439.54 | 4083672.86 | 3.21E-06 | 4.64E-05 | 3.42E-05 | 3.42E-05 | 1.91E-05 | 4.87E-07 | 7.07E-06 | 5.34E-06 | 5.34E-06 | 2.94E-06 | 2.65E-07 | 3.83E-06 | 2.38E-06 | 2.38E-06 | 1.18E-06 |
| 1403 | 258461.91 | 4083681.15 | 3.35E-06 | 4.85E-05 | 3.58E-06 | 3.58E-05 | 1.99E-05 | 5.09E-07 | 7.39E-06 | 5.58E-06 | 5.58E-06 | 3.07E-06 | 2.77E-07 | 4.00E-06 | 2.48E-06 | 2.48E-06 | 1.23E-06 |
| 1404 | 258484.29 | 4083689.43 | 3.51E-06 | 5.08E-05 | 3.74E-05 | 3.74E-05 | 2.09E-05 | 5.33E-07 | 7.73E-06 | 5.84E-06 | 5.84E-06 | 3.21E-06 | 2.89E-07 | 4.18E-06 | 2.60E-06 | 2.60E-06 | 1.29E-06 |
| 1405 | 258506.66 | 4083697.72 | 3.68E-06 | 5.32E-05 | 3.92E-05 | 3.92E-05 | 2.19E-06 | 5.59E-07 | 8.11E-06 | 6.13E-06 | 6.13E-06 | 3.37E-06 | 3.03E-07 | 4.39E-06 | 2.73E-06 | 2.73E-06 | 1.35E-06 |
| 1406 | 258529.04 | 4083706 | 3.86E-06 | 5.58E-05 | 4.12E-06 | 4.12E-05 | 2.29E-05 | 5.86E-07 | 8.51E-06 | 6.43E-06 | 6.43E-06 | 3.53E-06 | 3.18E-07 | 4.60E-06 | 2.86E-06 | 2.86E-06 | 1.42E-06 |
| 1407 | 258551.41 | 4083714.29 | 4.05E-06 | 5.86E-06 | 4.32E-06 | 4.32E-05 | 2.41E-05 | 6.15E-07 | 8.93E-06 | 6.75E-06 | 6.75E-06 | 3.71E-06 | 3.34E-07 | 4.83E-06 | 3.00E-06 | 3.00E-06 | 1.49E-06 |
| 1408 | 258573.79 | 4083722.57 | 4.26E-06 | 6.16E-05 | 4.54E-06 | 4.54E-05 | 2.53E-05 | 6.46E-07 | 9.38E-06 | 7.09E-06 | 7.09E-06 | 3.90E-06 | 3.51E-07 | 5.08E-06 | 3.15E-06 | 3.15E-06 | 1.56E-06 |
| 1409 | 258596.17 | 4083730.85 | 4.48E-06 | 6.47E-05 | 4.77E-05 | 4.77E-05 | 2.66E-05 | 6.79E-07 | 9.85E-06 | 7.45E-06 | 7.45E-06 | 4.10E-06 | 3.69E-07 | 5.34E-06 | 3.31E-06 | 3.31E-06 | 1.64E-06 |
| 1410 | 258618.54 | 4083739.14 | 4.70E-06 | 6.80E-05 | 5.01E-05 | 5.01E-05 | 2.79E-05 | 7.14E-07 | 1.04E-05 | 7.83E-06 | 7.83E-06 | 4.30E-06 | 3.88E-07 | 5.61E-06 | 3.48E-06 | 3.48E-06 | 1.72E-06 |
| 1411 | 258640.92 | 4083747.42 | 4.94E-06 | 7.15E-06 | 5.27E-05 | 5.27E-05 | 2.94E-05 | 7.50E-07 | 1.09E-05 | 8.23E-06 | 8.23E-06 | 4.52E-06 | 4.07E-07 | 5.89E-06 | 3.66E-06 | 3.66E-06 | 1.81E-06 |
| 1412 | 258663.29 | 4083755.71 | 5.19E-06 | 7.51E-06 | 5.53E-05 | 5.53E-05 | 3.08E-05 | 7.88E-07 | 1.14E-05 | 8.64E-06 | 8.64E-06 | 4.75E-06 | 4.28E-07 | 6.19E-06 | 3.84E-06 | 3.84E-06 | 1.90E-06 |
| 1413 | 258685.67 | 4083763.99 | 5.45E-06 | 7.88E-05 | 5.81E-05 | 5.81E-05 | 3.24E-06 | 8.27E-07 | 1.20E-05 | 9.07E-06 | 9.07E-06 | 4.99E-06 | 4.49E-07 | 6.50E-06 | 4.04E-06 | 4.04E-06 | 2.00E-06 |
| 1414 | 258708.04 | 4083772.28 | 5.72E-06 | 8.27E-05 | 6.10E-05 | 6.10E-05 | 3.40E-06 | 8.68E-07 | 1.26E-05 | 9.52E-06 | 9.52E-06 | 5.23E-06 | 4.71E-07 | 6.82E-06 | 4.24E-06 | 4.24E-06 | 2.10E-06 |
| 1415 | 258730.42 | 4083780.56 | 6.00E-06 | 8.67E-05 | 6.39E-05 | 6.39E-05 | 3.56E-05 | 9.10E-07 | 1.32E-05 | 9.98E-06 | 9.98E-06 | 5.49E-06 | 4.94E-07 | 7.15E-06 | 4.44E-06 | 4.44E-06 | 2.20E-06 |
| 1416 | 258752.8 | 4083788.84 | 6.28E-06 | 9.09E-05 | 6.70E-06 | 6.70E-05 | 3.73E-05 | 9.53E-07 | 1.38E-05 | 1.05E-05 | 1.05E-05 | 5.75E-06 | 5.18E-07 | 7.49E-06 | 4.65E-06 | 4.65E-06 | 2.30E-06 |
| 1417 | 258775.17 | 4083797.13 | 6.57E-06 | 9.51E-05 | 7.01E-05 | 7.01E-05 | 3.91E-06 | 9.98E-07 | 1.45E-06 | 1.09E-05 | 1.09E-05 | 6.02E-06 | 5.42E-07 | 7.84E-06 | 4.87E-06 | 4.87E-06 | 2.41E-06 |
| 1418 | 258797.55 | 4083805.41 | 6.87E-06 | 9.94E-05 | 7.33E-06 | 7.33E-05 | 4.08E-05 | 1.04E-06 | 1.51E-05 | 1.14E-05 | 1.14E-05 | 6.29E-06 | 5.67E-07 | 8.19E-06 | 5.09E-06 | 5.09E-06 | 2.52E-06 |
| 1419 | 258819.92 | 4083813.7 | 7.18E-06 | 1.04E-04 | 7.65E-05 | 7.65E-05 | 4.27E-05 | 1.09E-06 | 1.58E-06 | 1.19E-05 | 1.19E-05 | 6.57E-06 | 5.92E-07 | 8.56E-06 | 5.32E-06 | 5.32E-06 | 2.63E-06 |
| 1420 | 258842.3 | 4083821.98 | 7.49E-06 | 1.08E-04 | 7.98E-05 | 7.98E-05 | 4.45E-05 | 1.14E-06 | 1.65E-05 | 1.25E-05 | 1.25E-05 | 6.85E-06 | 6.17E-07 | 8.92E-06 | 5.54E-06 | 5.54E-06 | 2.74E-06 |
| 1421 | 258864.68 | 4083830.27 | 7.79E-06 | 1.13E-04 | 8.31E-05 | 8.31E-06 | 4.63E-06 | 1.18E-06 | 1.72E-05 | 1.30E-05 | 1.30E-06 | 7.13E-06 | 6.43E-07 | 9.29E-06 | 5.77E-06 | 5.77E-06 | 2.86E-06 |
| 1422 | 258887.05 | 4083838.55 | 8.11E-06 | 1.17E-04 | 8.64E-05 | 8.64E-05 | 4.82E-05 | 1.23E-06 | 1.79E-05 | 1.35E-05 | 1.35E-05 | 7.42E-06 | 6.68E-07 | 9.66E-06 | 6.00E-06 | 6.00E-06 | 2.97E-06 |
| 1423 | 258909.43 | 4083846.83 | 8.42E-06 | 1.22E-04 | 8.97E-05 | 8.97E-05 | 5.00E-05 | 1.28E-06 | 1.85E-05 | 1.40E-05 | 1.40E-05 | 7.70E-06 | 6.94E-07 | 1.00E-05 | 6.23E-06 | 6.23E-06 | 3.08E-06 |
| 1424 | 258931.8 | 4083855.12 | 8.73E-06 | 1.26E-04 | 9.30E-05 | 9.30E-05 | 5.19E-05 | 1.32E-06 | 1.92E-05 | 1.45E-05 | 1.45E-05 | 7.98E-06 | 7.19E-07 | 1.04E-05 | 6.46E-06 | 6.46E-06 | 3.20E-06 |
| 1425 | 258954.18 | 4083863.4 | 9.03E-06 | 1.31E-04 | 9.63E-05 | 9.63E-05 | 5.37E-05 | 1.37E-06 | 1.99E-05 | 1.50E-05 | 1.50E-05 | 8.26E-06 | 7.44E-07 | 1.08E-05 | 6.69E-06 | 6.69E-06 | 3.31E-06 |
| 1426 | 258976.55 | 4083871.69 | 9.33E-06 | 1.35E-04 | 9.95E-05 | 9.95E-05 | 5.55E-05 | 1.42E-06 | 2.06E-05 | 1.55E-05 | 1.55E-05 | 8.54E-06 | 7.69E-07 | 1.11E-05 | 6.91E-06 | 6.91E-06 | 3.42E-06 |
| 1427 | 258998.93 | 4083879.97 | 9.62E-06 | 1.39E-04 | 1.03E-04 | 1.03E-04 | 5.72E-05 | 1.46E-06 | 2.12E-06 | 1.60E-05 | 1.60E-05 | 8.81E-06 | 7.93E-07 | 1.15E-05 | 7.13E-06 | 7.13E-06 | 3.53E-06 |
| 1428 | 259021.31 | 4083888.26 | 9.91E-06 | 1.43E-04 | 1.06E-04 | 1.06E-04 | 5.89E-05 | 1.50E-06 | 2.18E-06 | 1.65E-05 | 1.65E-05 | 9.07E-06 | 8.17E-07 | 1.18E-05 | 7.34E-06 | 7.34E-06 | 3.63E-06 |
| 1429 | 259043.68 | 4083896.54 | 1.02E-05 | 1.47E-04 | 1.09E-04 | 1.09E-04 | 6.05E-05 | 1.55E-06 | 2.24E-05 | 1.69E-05 | 1.69E-05 | 9.32E-06 | 8.39E-07 | 1.21E-05 | 7.54E-06 | 7.54E-06 | 3.73E-06 |
| 1430 | 259066.06 | 4083904.83 | 1.04E-05 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 6.20E-05 | 1.58E-06 | 2.30E-05 | 1.74E-05 | 1.74E-05 | 9.55E-06 | 8.60E-07 | 1.24E-05 | 7.73E-06 | 7.73E-06 | 3.82E-06 |
| 1431 | 259088.43 | 4083913.11 | 1.07E-05 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.34E-05 | 1.62E-06 | 2.35E-05 | 1.78E-05 | 1.78E-05 | 9.76E-06 | 8.80E-07 | 1.27E-05 | 7.90E-06 | 7.90E-06 | 3.91E-06 |
| 1432 | 259110.81 | 4083921.39 | 1.09E-05 | 1.57E-04 | 1.16E-04 | 1.16E-04 | 6.47E-05 | 1.65E-06 | 2.40E-06 | 1.81E-05 | 1.81E-05 | 9.96E-06 | 8.98E-07 | 1.30E-05 | 8.06E-06 | 8.06E-06 | 3.99E-06 |
| 3433 | 259133.18 | 4083929.68 | 1.11E-05 | 1.60E-04 | 1.18E-04 | 1.18E-04 | 6.59E-06 | 1.68E-06 | 2.44E-05 | 1.85E-05 | 1.85E-05 | 1.01E-05 | 9.14E-07 | 1.32E-05 | 8.21E-06 | 8.21E-06 | 4.07E-06 |
| 1434 | 259155.56 | 4083937.96 | 1.13E-05 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.70E-05 | 1.71E-06 | 2.48E-05 | 1.88E-06 | 1.88E-06 | 1.03E-05 | 9.29E-07 | 1.34E-05 | 8.34E-06 | 8.34E-06 | 4.13E-06 |
| 1435 | 259177.94 | 4083946.25 | 1.14E-05 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.78E-05 | 1.73E-06 | 2.51E-05 | 1.90E-05 | 1.90E-05 | 1.04E-05 | 9.41E-07 | 1.36E-05 | 8.45E-06 | 8.45E-06 | 4.18E-06 |
| 1436 | 259200.31 | 4083954.53 | 1.15E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.86E-05 | 1.75E-06 | 2.54E-05 | 1.92E-05 | 1.92E-06 | 1.06E-05 | 9.52E-07 | 1.38E-05 | 8.55E-06 | 8.55E-06 | 4.23E-06 |
| 1437 | 259222.69 | 4083962.82 | 1.17E-05 | 1.69E-04 | 1.24E-04 | 1.24E-04 | 6.93E-05 | 1.77E-06 | 2.57E-05 | 1.94E-05 | 1.94E-05 | 1.07E-05 | 9.61E-07 | 1.39E-05 | 8.63E-06 | 8.63E-06 | 4.27E-06 |
| 1438 | 259254.9 | 4083992.84 | 1.21E-05 | 1.74E-04 | 1.28E-04 | 1.28E-04 | 7.16E-05 | 1.83E-06 | 2.66E-06 | 2.01E-05 | 2.01E-05 | 1.10E-05 | 9.99E-07 | 1.44E-05 | 8.92E-06 | 8.92E-06 | 4.42E-06 |
| 1439 | 259264.73 | 4084014.58 | 1.23E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 1440 | 259274.57 | 4084036.32 | 1.26E-05 | 1.83E-04 | 1.35E-04 | 1.35E-04 | 7.50E-05 | 1.92E-06 | 2.78E-05 | 2.10E-05 | 2.10E-05 | 1.15E-05 | 1.04E-06 | 1.50E-05 | 9.34E-06 | 9.34E-06 | 4.63E-06 |
| 1441 | 259284.4 | 4084058.06 | 1.29E-05 | 1.86E-04 | 1.37E-04 | 1.37E-04 | 7.65E-05 | 1.95E-06 | 2.84E-05 | 2.14E-05 | 2.14E-05 | 1.18E-05 | 1.06E-06 | 1.53E-05 | 9.53E-06 | 9.53E-06 | 4.72E-06 |
| 1442 | 259294.24 | 4084079.8 | 1.31E-05 | 1.89E-04 | 1.40E-04 | 1.40E-04 | 7.78E-05 | 1.99E-06 | 2.89E-05 | 2.18E-06 | 2.18E-05 | 1.20E-05 | 1.08E-06 | 1.56E-05 | 9.70E-06 | 9.70E-06 | 4.80E-06 |
| 1443 | 259304.07 | 4084101.53 | 1.33E-06 | 1.92E-04 | 1.42E-04 | 1.42E-04 | 7.90E-05 | 2.02E-06 | 2.93E-05 | 2.21E-06 | 2.21E-05 | 1.22E-05 | 1.10E-06 | 1.58E-05 | 9.84E-06 | 9.84E-06 | 4.87E-06 |
| 1444 | 259313.91 | 4084123.27 | 1.34E-06 | 1.94E-04 | 1.43E-04 | 1.43E-04 | 7.99E-05 | 2.04E-06 | 2.96E-06 | 2.24E-05 | 2.24E-05 | 1.23E-05 | 1.11E-06 | 1.60E-05 | 9.96E-06 | 9.96E-06 | 4.93E-06 |
| 1445 | 259323.74 | 4084145.01 | 1.36E-05 | 1.96E-04 | 1.45E-04 | 1.45E-04 | 8.06E-05 | 2.06E-06 | 2.99E-05 | 2.26E-05 | 2.26E-05 | 1.24E-05 | 1.12E-06 | 1.62E-05 | 1.00E-05 | 1.00E-05 | 4.97E-06 |
| 1446 | 259333.58 | 4084166.75 | 1.37E-05 | 1.97E-04 | 1.46E-04 | 1.46E-04 | 8.11E-05 | 2.07E-06 | 3.01E-05 | 2.27E-05 | 2.27E-05 | 1.25E-05 | 1.13E-06 | 1.63E-05 | 1.01E-05 | 1.01E-05 | 5.00E-06 |
| 1447 | 259343.41 | 4084188.49 | 1.37E-05 | 1.98E-04 | 1.46E-04 | 1.46E-04 | 8.14E-05 | 2.08E-06 | 3.02E-05 | 2.28E-05 | 2.28E-05 | 1.25E-05 | 1.13E-06 | 1.63E-05 | 1.01E-05 | 1.01E-05 | 5.02E-06 |
| 1448 | 259353.25 | 4084210.23 | 1.37E-05 | 1.98E-04 | 1.46E-04 | 1.46E-04 | 8.15E-05 | 2.08E-06 | 3.02E-05 | 2.28E-05 | 2.28E-05 | 1.25E-05 | 1.13E-06 | 1.63E-05 | 1.02E-05 | 1.02E-05 | 5.02E-06 |
| 1449 | 259363.08 | 4084231.97 | 1.37E-05 | 1.98E-04 | 1.46E-04 | 1.46E-04 | 8.13E-05 | 2.08E-06 | 3.01E-05 | 2.28E-05 | 2.28E-05 | 1.25E-05 | 1.13E-06 | 1.63E-05 | 1.01E-05 | 1.01E-05 | 5.01E-06 |
| 1450 | 259372.92 | 4084253.71 | 1.36E-05 | 1.97E-04 | 1.45E-04 | 1.45E-04 | 8.09E-06 | 2.06E-06 | 3.00E-05 | 2.26E-05 | 2.26E-05 | 1.24E-05 | 1.12E-06 | 1.62E-05 | 1.01E-05 | 1.01E-05 | 4.99E-06 |
| 1451 | 259382.75 | 4084275.45 | 1.35E-05 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.02E-05 | 2.05E-06 | 2.97E-05 | 2.25E-05 | 2.25E-05 | 1.23E-05 | 1.11E-06 | 1.61E-05 | 9.99E-06 | 9.99E-06 | 4.95E-06 |
| 1452 | 259392.59 | 4084297.18 | 1.34E-05 | 1.93E-04 | 1.42E-04 | 1.42E-04 | 7.94E-05 | 2.03E-06 | 2.94E-06 | 2.22E-05 | 2.22E-05 | 1.22E-05 | 1.10E-06 | 1.59E-05 | 9.89E-06 | 9.89E-06 | 4.89E-06 |
| 1453 | 259402.42 | 4084318.92 | 1.32E-05 | 1.91E-04 | 1.41E-04 | 1.41E-04 | 7.83E-05 | 2.00E-06 | 2.90E-05 | 2.19E-05 | 2.19E-05 | 1.21E-05 | 1.09E-06 | 1.57E-05 | 9.76E-06 | 9.76E-06 | 4.83E-06 |
| 1454 | 259412.26 | 4084340.66 | 1.30E-05 | 1.88E-04 | 1.38E-04 | 1.38E-04 | 7.71E-05 | 1.97E-06 | 2.86E-05 | 2.16E-05 | 2.16E-05 | 1.19E-05 | 1.07E-06 | 1.55E-05 | 9.61E-06 | 9.61E-06 | 4.76E-06 |
| 1455 | 259422.09 | 4084362.4 | 1.28E-06 | 1.84E-04 | 1.36E-04 | 1.36E-04 | 7.58E-05 | 1.94E-06 | 2.81E-05 | 2.12E-05 | 2.12E-05 | 1.17E-05 | 1.05E-06 | 1.52E-05 | 9.45E-06 | 9.45E-06 | 4.68E-06 |
| 1456 | 259431.93 | 4084384.14 | 1.25E-05 | 1.81E-04 | 1.33E-04 | 1.33E-04 | 7.44E-05 | 1.90E-06 | 2.76E-05 | 2.08E-05 | 2.08E-05 | 1.15E-05 | 1.03E-06 | 1.49E-05 | 9.27E-06 | 9.27E-06 | 4.59E-06 |
| 1457 | 259441.76 | 4084405.88 | 1.23E-05 | 1.78E-04 | 1.31E-04 | 1.31E-04 | 7.32E-05 | 1.87E-06 | 2.71E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.01E-06 | 1.47E-05 | 9.12E-06 | 9.12E-06 | 4.51E-06 |
| 1458 | 259451.6 | 4084427.62 | 1.21E-05 | 1.74E-04 | 1.28E-04 | 1.28E-04 | 7.16E-05 | 1.83E-06 | 2.66E-05 | 2.01E-05 | 2.01E-05 | 1.10E-05 | 9.94E-07 | 1.44E-05 | 8.93E-06 | 8.93E-06 | 4.42E-06 |
| 1459 | 259461.43 | 4084449.36 | 1.18E-05 | 1.71E-04 | 1.26E-04 | 1.26E-04 | 7.01E-05 | 1.79E-06 | 2.60E-05 | 1.96E-05 | 1.96E-06 | 1.08E-05 | 9.72E-07 | 1.41E-05 | 8.73E-06 | 8.73E-06 | 4.32E-06 |
| 1460 | 259471.26 | 4084471.1 | 1.15E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.85E-05 | 1.75E-06 | 2.54E-05 | 1.92E-05 | 3.92E-05 | 1.05E-05 | 9.50E-07 | 1.37E-05 | 8.54E-06 | 8.54E-06 | 4.23E-06 |
| 1461 | 259481.1 | 4084492.84 | 1.13E-05 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.69E-05 | 1.71E-06 | 2.48E-06 | 1.87E-05 | 1.87E-05 | 1.03E-05 | 9.28E-07 | 1.34E-05 | 8.34E-06 | 8.34E-06 | 4.13E-06 |
| 1462 | 259490.93 | 4084514.57 | 1.10E-05 | 1.59E-04 | 1.17E-04 | 1.17E-04 | 6.53E-05 | 1.67E-06 | 2.42E-05 | 1.83E-05 | 1.83E-05 | 1.01E-05 | 9.06E-07 | 1.31E-05 | 8.14E-06 | 8.14E-06 | 4.03E-06 |
| 1463 | 259500.77 | 4084536.31 | 1.07E-05 | 1.55E-04 | 1.14E-04 | 1.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1152 | 258874.64 | 4084495.51 | 3.23E-05 | 4.67E-04 | 3.44E-04 | 3.44E-04 | 1.92E-04 | 4.90E-06 | 7.12E-05 | 5.38E-05 | 5.38E-05 | 2.96E-05 | 2.66E-06 | 3.85E-05 | 2.39E-05 | 2.39E-05 | 1.18E-05 |
| 1153 | 258864.32 | 4084516.88 | 3.26E-05 | 4.72E-04 | 3.48E-04 | 3.48E-04 | 1.94E-04 | 4.95E-06 | 7.19E-05 | 5.43E-05 | 5.43E-05 | 2.99E-05 | 2.69E-06 | 3.89E-05 | 2.42E-05 | 2.42E-05 | 1.20E-05 |
| 1154 | 258893.99 | 4084538.26 | 3.28E-05 | 4.74E-04 | 3.50E-04 | 3.50E-04 | 1.95E-04 | 4.98E-06 | 7.23E-05 | 5.46E-05 | 5.46E-05 | 3.00E-05 | 2.70E-06 | 3.91E-05 | 2.43E-05 | 2.43E-05 | 1.20E-05 |
| 1155 | 258903.66 | 4084559.63 | 3.27E-05 | 4.74E-04 | 3.49E-04 | 3.49E-04 | 1.95E-04 | 4.97E-06 | 7.22E-05 | 5.45E-05 | 5.45E-05 | 3.00E-05 | 2.70E-06 | 3.90E-05 | 2.43E-05 | 2.43E-05 | 1.20E-05 |
| 1156 | 258913.33 | 4084581.01 | 3.25E-05 | 4.70E-04 | 3.47E-04 | 3.47E-04 | 1.93E-04 | 4.93E-06 | 7.16E-05 | 5.41E-05 | 5.41E-05 | 2.97E-05 | 2.68E-06 | 3.88E-05 | 2.41E-05 | 2.41E-05 | 1.19E-05 |
| 1157 | 258923 | 4084602.38 | 3.21E-05 | 4.64E-04 | 3.42E-04 | 3.42E-04 | 1.91E-04 | 4.87E-06 | 7.07E-05 | 5.34E-05 | 5.34E-05 | 2.93E-05 | 2.64E-06 | 3.82E-05 | 2.37E-05 | 2.37E-05 | 1.18E-05 |
| 1158 | 258932.67 | 4084623.76 | 3.14E-05 | 4.55E-04 | 3.35E-04 | 3.35E-04 | 1.87E-04 | 4.77E-06 | 6.93E-05 | 5.23E-05 | 5.23E-05 | 2.88E-05 | 2.59E-06 | 3.75E-05 | 2.33E-05 | 2.33E-05 | 1.15E-05 |
| 1159 | 258942.34 | 4084645.13 | 3.06E-05 | 4.43E-04 | 3.27E-04 | 3.27E-04 | 1.82E-04 | 4.65E-06 | 6.75E-05 | 5.10E-05 | 5.10E-05 | 2.80E-05 | 2.53E-06 | 3.65E-05 | 2.27E-05 | 2.27E-05 | 1.12E-05 |
| 1160 | 258952.01 | 4084666.51 | 2.97E-05 | 4.29E-04 | 3.16E-04 | 3.16E-04 | 1.76E-04 | 4.50E-06 | 6.54E-05 | 4.94E-05 | 4.94E-05 | 2.72E-05 | 2.45E-06 | 3.54E-05 | 2.20E-05 | 2.20E-05 | 1.09E-05 |
| 1161 | 258961.68 | 4084687.89 | 2.86E-05 | 4.13E-04 | 3.05E-04 | 3.05E-04 | 1.70E-04 | 4.34E-06 | 6.30E-05 | 4.76E-05 | 4.76E-05 | 2.62E-05 | 2.36E-06 | 3.41E-05 | 2.12E-05 | 2.12E-05 | 1.05E-05 |
| 1162 | 258971.35 | 4084709.26 | 2.74E-05 | 3.96E-04 | 2.92E-04 | 2.92E-04 | 1.63E-04 | 4.16E-06 | 6.04E-05 | 4.56E-05 | 4.56E-05 | 2.51E-05 | 2.26E-06 | 3.27E-05 | 2.03E-05 | 2.03E-05 | 1.00E-05 |
| 1163 | 258981.02 | 4084730.64 | 2.61E-05 | 3.78E-04 | 2.78E-04 | 2.78E-04 | 1.55E-04 | 3.96E-06 | 5.75E-05 | 4.35E-05 | 4.35E-05 | 2.39E-05 | 2.15E-06 | 3.11E-05 | 1.93E-05 | 1.93E-05 | 9.57E-06 |
| 1164 | 258990.69 | 4084752.01 | 2.48E-05 | 3.59E-04 | 2.64E-04 | 2.64E-04 | 1.47E-04 | 3.76E-06 | 5.45E-06 | 4.13E-05 | 4.13E-05 | 2.27E-05 | 2.04E-06 | 2.96E-05 | 1.84E-05 | 1.84E-05 | 9.09E-06 |
| 1165 | 259000.36 | 4084773.39 | 2.35E-05 | 3.39E-04 | 2.50E-04 | 2.50E-04 | 1.39E-04 | 3.56E-06 | 5.17E-05 | 3.90E-05 | 3.90E-05 | 2.15E-05 | 1.93E-06 | 2.80E-05 | 1.74E-05 | 1.74E-05 | 8.60E-06 |
| 1168 | 259010.03 | 4084794.76 | 2.21E-05 | 3.20E-04 | 2.36E-04 | 2.36E-04 | 1.32E-04 | 3.36E-06 | 4.88E-05 | 3.68E-05 | 3.68E-05 | 2.02E-05 | 1.82E-06 | 2.64E-05 | 1.64E-05 | 1.64E-05 | 8.11E-06 |
| 1167 | 259019.7 | 4084816.14 | 2.08E-05 | 3.01E-04 | 2.22E-04 | 2.22E-04 | 1.24E-04 | 3.16E-06 | 4.59E-05 | 3.47E-05 | 3.47E-05 | 1.91E-05 | 1.72E-06 | 2.48E-05 | 1.54E-05 | 1.54E-05 | 7.64E-06 |
| 1168 | 259029.37 | 4084837.51 | 1.96E-05 | 2.83E-04 | 2.09E-04 | 2.09E-04 | 1.16E-04 | 2.97E-06 | 4.32E-05 | 3.26E-05 | 3.26E-05 | 1.79E-05 | 1.62E-06 | 2.34E-05 | 1.45E-05 | 1.45E-05 | 7.18E-06 |
| 1169 | 259039.04 | 4084858.89 | 1.84E-05 | 2.66E-04 | 1.96E-04 | 1.96E-04 | 1.09E-04 | 2.79E-06 | 4.06E-06 | 3.06E-05 | 3.06E-05 | 1.68E-05 | 1.52E-06 | 2.19E-05 | 1.36E-05 | 1.36E-05 | 6.75E-06 |
| 1170 | 259048.71 | 4084880.26 | 1.73E-05 | 2.50E-04 | 1.84E-04 | 1.84E-04 | 1.03E-04 | 2.62E-06 | 3.81E-05 | 2.88E-05 | 2.88E-05 | 1.58E-05 | 1.42E-06 | 2.06E-05 | 1.28E-05 | 1.28E-05 | 6.33E-06 |
| 1171 | 258329.93 | 4084222.65 | 1.19E-05 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.06E-05 | 1.80E-06 | 2.62E-05 | 1.98E-05 | 1.98E-05 | 1.09E-05 | 9.80E-07 | 1.42E-05 | 8.80E-06 | 8.80E-06 | 4.36E-06 |
| 1172 | 258305.59 | 4084223.65 | 1.14E-05 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.78E-05 | 1.73E-06 | 2.51E-05 | 1.90E-05 | 1.90E-05 | 1.04E-05 | 9.40E-07 | 1.36E-05 | 8.45E-06 | 8.45E-06 | 4.18E-06 |
| 1173 | 258281.26 | 4084224.65 | 1.09E-05 | 1.58E-04 | 1.17E-04 | 1.17E-04 | 6.50E-05 | 1.66E-06 | 2.41E-05 | 1.82E-05 | 1.82E-05 | 1.00E-05 | 9.01E-07 | 1.30E-05 | 8.10E-06 | 8.10E-06 | 4.01E-06 |
| 1174 | 258256.93 | 4084225.65 | 1.05E-05 | 1.51E-04 | 1.12E-04 | 1.12E-04 | 6.22E-05 | 1.59E-06 | 2.31E-05 | 1.74E-05 | 1.74E-05 | 9.57E-06 | 8.62E-07 | 1.25E-05 | 7.75E-06 | 7.75E-06 | 3.84E-06 |
| 1175 | 258232.6 | 4084226.65 | 1.00E-05 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.94E-05 | 1.52E-06 | 2.20E-05 | 1.66E-05 | 1.66E-06 | 9.15E-06 | 8.24E-07 | 1.19E-05 | 7.40E-06 | 7.40E-06 | 3.66E-06 |
| 1176 | 258208.27 | 4084227.65 | 9.53E-06 | 1.38E-04 | 1.02E-04 | 1.02E-04 | 5.67E-05 | 1.45E-06 | 2.10E-05 | 1.59E-05 | 1.59E-05 | 8.72E-06 | 7.86E-07 | 1.14E-05 | 7.06E-06 | 7.06E-06 | 3.49E-06 |
| 1177 | 258183.94 | 4084228.65 | 9.08E-06 | 1.31E-04 | 9.68E-05 | 9.68E-05 | 5.40E-05 | 1.38E-06 | 2.00E-05 | 1.51E-05 | 1.51E-05 | 8.31E-06 | 7.49E-07 | 1.08E-05 | 6.73E-06 | 6.73E-06 | 3.33E-06 |
| 1178 | 258159.6 | 4084229.65 | 8.64E-06 | 1.25E-04 | 9.21E-05 | 9.21E-05 | 5.14E-05 | 1.31E-06 | 1.90E-05 | 1.44E-05 | 1.44E-05 | 7.91E-06 | 7.12E-07 | 1.03E-05 | 6.40E-06 | 6.40E-06 | 3.17E-06 |
| 1179 | 258135.27 | 4084230.65 | 8.21E-06 | 1.19E-04 | 8.76E-05 | 8.76E-05 | 4.88E-05 | 1.25E-06 | 1.81E-06 | 1.37E-05 | 1.37E-05 | 7.52E-06 | 6.77E-07 | 9.79E-06 | 6.08E-06 | 6.08E-06 | 3.01E-06 |
| 1180 | 258110.94 | 4084231.65 | 7.81E-06 | 1.13E-04 | 8.32E-05 | 8.32E-05 | 4.64E-05 | 1.18E-06 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.14E-06 | 6.44E-07 | 9.31E-06 | 5.78E-06 | 5.78E-06 | 2.86E-06 |
| 1181 | 258086.61 | 4084232.65 | 7.42E-06 | 1.07E-04 | 7.91E-05 | 7.91E-05 | 4.41E-05 | 1.13E-06 | 1.64E-05 | 1.24E-05 | 1.24E-05 | 6.79E-06 | 6.12E-07 | 8.85E-06 | 5.50E-06 | 5.50E-06 | 2.72E-06 |
| 1182 | 258062.28 | 4084233.65 | 7.06E-06 | 1.02E-04 | 7.52E-05 | 7.52E-05 | 4.19E-05 | 1.07E-06 | 1.55E-05 | 1.17E-05 | 1.17E-05 | 6.46E-06 | 5.82E-07 | 8.41E-06 | 5.22E-06 | 5.22E-06 | 2.59E-06 |
| 1183 | 258037.94 | 4084234.65 | 6.71E-06 | 9.71E-05 | 7.15E-05 | 7.15E-05 | 3.99E-06 | 1.02E-06 | 1.48E-05 | 1.12E-05 | 1.12E-05 | 6.14E-06 | 5.53E-07 | 6.00E-06 | 4.97E-06 | 4.97E-06 | 2.46E-06 |
| 1184 | 258013.61 | 4084235.65 | 6.39E-06 | 9.24E-05 | 6.81E-05 | 6.81E-05 | 3.80E-05 | 9.69E-07 | 1.41E-05 | 1.06E-05 | 1.06E-05 | 5.84E-06 | 5.26E-07 | 7.61E-06 | 4.73E-06 | 4.73E-06 | 2.34E-06 |
| 1185 | 257989.28 | 4084236.66 | 6.09E-06 | 8.80E-05 | 6.49E-05 | 6.49E-05 | 3.62E-05 | 9.24E-07 | 1.34E-05 | 1.01E-05 | 1.01E-05 | 5.57E-06 | 5.02E-07 | 7.26E-06 | 4.51E-06 | 4.51E-06 | 2.23E-06 |
| 1186 | 257964.95 | 4084237.66 | 5.81E-06 | 8.40E-05 | 6.19E-05 | 6.19E-05 | 3.45E-05 | 8.81E-07 | 1.28E-05 | 9.66E-06 | 9.66E-06 | 5.31E-06 | 4.79E-07 | 6.92E-06 | 4.30E-06 | 4.30E-06 | 2.13E-06 |
| 1187 | 257940.62 | 4084238.66 | 5.54E-06 | 8.02E-05 | 5.91E-05 | 5.91E-05 | 3.29E-05 | 8.41E-07 | 1.22E-06 | 9.23E-06 | 9.23E-06 | 5.07E-06 | 4.57E-07 | 6.61E-06 | 4.10E-06 | 4.10E-06 | 2.03E-06 |
| 1188 | 257916.29 | 4084239.66 | 5.30E-06 | 7.68E-05 | 5.65E-05 | 5.65E-05 | 3.15E-05 | 8.04E-07 | 1.17E-05 | 8.82E-06 | 8.82E-06 | 4.85E-06 | 4.37E-07 | 6.32E-06 | 3.92E-06 | 3.92E-06 | 1.94E-06 |
| 1189 | 257891.95 | 4084240.66 | 5.07E-06 | 7.34E-05 | 5.41E-05 | 5.41E-05 | 3.02E-05 | 7.70E-07 | 1.12E-05 | 8.44E-06 | 8.44E-06 | 4.64E-06 | 4.18E-07 | 6.05E-06 | 3.76E-06 | 3.76E-06 | 1.86E-06 |
| 1190 | 257867.62 | 4084241.66 | 4.86E-06 | 7.04E-05 | 5.19E-05 | 5.19E-05 | 2.89E-05 | 7.38E-07 | 1.07E-05 | 8.10E-06 | 8.10E-06 | 4.45E-06 | 4.01E-07 | 5.80E-06 | 3.60E-06 | 3.60E-06 | 1.78E-06 |
| 1191 | 257843.29 | 4084242.66 | 4.67E-06 | 6.76E-05 | 4.98E-05 | 4.98E-05 | 2.78E-05 | 7.09E-07 | 1.03E-05 | 7.78E-06 | 7.78E-06 | 4.28E-06 | 3.85E-07 | 5.57E-06 | 3.46E-06 | 3.46E-06 | 1.71E-06 |
| 1192 | 257818.96 | 4084243.66 | 4.50E-06 | 6.50E-05 | 4.79E-05 | 4.79E-05 | 2.67E-05 | 6.82E-07 | 9.91E-06 | 7.46E-06 | 7.48E-06 | 4.11E-06 | 3.71E-07 | 5.36E-06 | 3.33E-06 | 3.33E-06 | 1.65E-06 |
| 1193 | 257794.63 | 4084244.66 | 4.33E-06 | 6.26E-05 | 4.62E-05 | 4.62E-05 | 2.57E-05 | 6.57E-07 | 9.54E-06 | 7.21E-06 | 7.21E-06 | 3.96E-06 | 3.57E-07 | 5.16E-06 | 3.21E-06 | 3.21E-06 | 1.59E-06 |
| 1194 | 257770.29 | 4084245.66 | 4.18E-06 | 6.04E-05 | 4.45E-05 | 4.45E-06 | 2.48E-05 | 6.34E-07 | 9.20E-06 | 6.95E-06 | 6.95E-06 | 3.82E-06 | 3.44E-07 | 4.98E-06 | 3.09E-06 | 3.09E-06 | 1.53E-06 |
| 1199 | 257745.96 | 4084246.66 | 4.03E-06 | 5.83E-05 | 4.30E-05 | 4.30E-05 | 2.40E-05 | 6.12E-07 | 8.89E-06 | 6.71E-06 | 6.71E-06 | 3.69E-06 | 3.32E-07 | 4.81E-06 | 2.99E-06 | 2.99E-06 | 1.48E-06 |
| 1196 | 257721.63 | 4084247.66 | 3.90E-06 | 5.64E-05 | 4.15E-05 | 4.15E-05 | 2.32E-05 | 5.92E-07 | 8.59E-06 | 6.49E-06 | 6.49E-06 | 3.57E-06 | 3.21E-07 | 4.65E-06 | 2.89E-06 | 2.89E-06 | 1.43E-06 |
| 1197 | 257697.3 | 4084248.66 | 3.77E-06 | 5.45E-05 | 4.02E-05 | 4.02E-05 | 2.24E-05 | 5.72E-07 | 8.31E-06 | 6.28E-06 | 6.28E-06 | 3.45E-06 | 3.11E-07 | 4.50E-06 | 2.79E-06 | 2.79E-06 | 1.38E-06 |
| 1198 | 257672.97 | 4084249.66 | 3.65E-06 | 5.28E-05 | 3.89E-05 | 3.89E-05 | 2.17E-05 | 5.54E-07 | 8.05E-06 | 6.08E-06 | 6.08E-06 | 3.34E-06 | 3.01E-07 | 4.36E-06 | 2.71E-06 | 2.71E-06 | 1.34E-06 |
| 1199 | 257648.64 | 4084250.66 | 3.54E-06 | 5.12E-05 | 3.77E-05 | 3.77E-05 | 2.10E-05 | 5.37E-07 | 7.80E-06 | 5.89E-06 | 5.89E-06 | 3.24E-06 | 2.92E-07 | 4.22E-06 | 2.62E-06 | 2.62E-06 | 1.30E-06 |
| 1200 | 257624.3 | 4084251.66 | 3.44E-06 | 4.97E-05 | 3.66E-05 | 3.66E-05 | 2.04E-05 | 5.22E-07 | 7.57E-06 | 5.72E-06 | 5.72E-06 | 3.14E-06 | 2.83E-07 | 4.10E-06 | 2.54E-06 | 2.54E-06 | 1.26E-06 |
| 1201 | 257599.97 | 4084252.66 | 3.34E-06 | 4.82E-05 | 3.56E-05 | 3.56E-05 | 1.98E-05 | 5.06E-07 | 7.35E-06 | 5.55E-06 | 5.55E-06 | 3.05E-06 | 2.75E-07 | 3.98E-06 | 2.47E-06 | 2.47E-06 | 1.22E-06 |
| 1202 | 257575.64 | 4084253.66 | 3.24E-06 | 4.69E-05 | 3.46E-05 | 3.46E-05 | 1.93E-05 | 4.92E-07 | 7.14E-06 | 5.40E-06 | 5.40E-06 | 2.97E-06 | 2.67E-07 | 3.86E-06 | 2.40E-06 | 2.40E-06 | 1.19E-06 |
| 1203 | 257551.31 | 4084254.66 | 3.15E-06 | 4.56E-05 | 3.36E-05 | 3.36E-05 | 1.87E-06 | 4.79E-07 | 6.95E-06 | 5.25E-06 | 5.25E-06 | 2.89E-06 | 2.60E-07 | 3.76E-06 | 2.34E-06 | 2.34E-06 | 1.16E-06 |
| 1204 | 257526.98 | 4084255.66 | 3.07E-06 | 4.44E-05 | 3.27E-05 | 3.27E-05 | 1.82E-05 | 4.66E-07 | 6.76E-06 | 5.11E-06 | 5.11E-06 | 2.81E-06 | 2.53E-07 | 3.66E-06 | 2.27E-06 | 2.27E-06 | 1.13E-06 |
| 1205 | 258344.15 | 4084031.13 | 6.51E-06 | 9.41E-05 | 6.94E-05 | 6.94E-05 | 3.87E-05 | 9.87E-07 | 1.43E-05 | 1.08E-05 | 1.08E-05 | 5.95E-06 | 5.36E-07 | 7.76E-06 | 4.82E-06 | 4.82E-06 | 2.38E-06 |
| 1206 | 258366.58 | 4084039.43 | 6.93E-06 | 1.00E-04 | 7.39E-05 | 7.39E-05 | 4.12E-05 | 1.05E-06 | 1.53E-05 | 1.15E-05 | 1.15E-05 | 6.34E-06 | 5.71E-07 | 8.26E-06 | 5.13E-06 | 5.13E-06 | 2.54E-06 |
| 1207 | 258389.02 | 4084047.74 | 7.38E-06 | 1.07E-04 | 7.87E-05 | 7.87E-05 | 4.39E-06 | 1.12E-06 | 1.63E-05 | 1.23E-05 | 1.23E-05 | 6.75E-06 | 6.08E-07 | 8.80E-06 | 5.47E-06 | 5.47E-06 | 2.71E-06 |
| 1208 | 258411.45 | 4084056.04 | 7.86E-06 | 1.14E-04 | 8.38E-05 | 8.38E-05 | 4.67E-05 | 1.19E-06 | 1.73E-05 | 1.31E-05 | 1.31E-06 | 7.19E-06 | 6.48E-07 | 9.37E-06 | 5.82E-06 | 5.82E-06 | 2.88E-06 |
| 1209 | 258433.89 | 4084064.35 | 8.37E-06 | 1.21E-04 | 8.93E-05 | 8.93E-05 | 4.98E-05 | 1.27E-06 | 1.84E-05 | 1.39E-05 | 1.39E-05 | 7.66E-06 | 6.90E-07 | 9.98E-06 | 6.20E-06 | 6.20E-06 | 3.07E-06 |
| 1210 | 258456.32 | 4084072.66 | 8.91E-06 | 1.29E-04 | 9.50E-05 | 9.50E-05 | 5.30E-05 | 1.35E-06 | 1.96E-05 | 1.48E-05 | 1.48E-05 | 8.15E-06 | 7.34E-07 | 1.06E-05 | 6.60E-06 | 6.60E-06 | 3.27E-06 |
| 1211 | 258478.76 | 4084080.96 | 9.47E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.63E-05 | 1.44E-06 | 2.09E-05 | 1.58E-05 | 1.58E-05 | 8.67E-06 | 7.81E-07 | 1.13E-06 | 7.01E-06 | 7.01E-06 | 3.47E-06 |
| 1212 | 258501.19 | 4084089.27 | 1.01E-06 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.98E-05 | 1.53E-06 | 2.22E-05 | 1.67E-05 | 1.67E-05 | 9.20E-06 | 8.29E-07 | 1.20E-05 | 7.45E-06 | 7.45E-06 | 3.69E-06 |
| 1213 | 258523.63 | 4084097.58 | 1.07E-05 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.34E-05 | 1.62E-06 | 2.35E-05 | 1.77E-05 | 1.77E-05 | 9.75E-06 | 8.79E-07 | 1.27E-05 | 7.89E-06 | 7.89E-06 | 3.91E-06 |
| 1214 | 258546.06 | 4084105.88 | 1.13E-05 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.70E-05 | 1.71E-06 | 2.49E-05 | 1.88E-05 | 1.88E-05 | 1.03E-05 | 9.30E-07 | 1.34E-05 | 8.35E-06 | 8.35E-06 | 4.13E-06 |
| 1215 | 258568.5 | 4084114.19 | 1.19E-05 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.08E-05 | 1.81E-06 | 2.63E-05 | 1.98E-05 | 1.98E-05 | 1.09E-05 | 9.82E-07 | 1.42E-05 | 8.82E-06 | 8.82E-06 | 4.37E-06 |
| 1216 | 258590.93 | 4084122.5 | 1.26E-06 | 1.82E-04 | 1.34E-04 | 1.34E-04 | 7.46E-05 | 1.91E-06 | 2.77E-05 | 2.09E-05 | 2.09E-05 | 1.15E-05 | 1.04E-06 | 1.50E-05 | 9.30E-06 | 9.30E-06 | 4.60E-06 |
| 1217 | 258613.37 | 4084130.8 | 1.32E-06 | 1.91E-04 | 1.41E-04 | 1.41E-04 | 7.85E-05 | 2.00E-06 | 2.91E-05 | 2.20E-05 | 2.20E-05 | 1.21E-05 | 1.09E-06 | 1.57E-05 | 9.78E-06 | 9.78E-06 | 4.84E-06 |
| 1218 | 258635.8 | 4084139.11 | 1.39E-05 | 2.00E-04 | 1.48E-04 | 1.48E-04 | 8.23E-06 | 2.10E-06 | 3.05E-05 | 2.31E-05 | 2.31E-05 | 1.27E-05 | 1.14E-06 | 1.65E-05 | 1.03E-05 | 1.03E-05 | 5.08E-06 |
| 1219 | 258658.24 | 4084147.41 | 1.45E-05 | 2.10E-04 | 1.55E-04 | 1.55E-04 | 8.62E-05 | 2.20E-06 | 3.19E-05 | 2.41E-06 | 2.41E-05 | 1.33E-05 | 1.20E-06 | 1.73E-06 | 1.07E-05 | 1.07E-05 | 5.32E-06 |
| 1220 | 258680.67 | 4084155.72 | 1.51E-05 | 2.19E-04 | 1.61E-04 | 1.61E-04 | 9.00E-05 | 2.30E-06 | 3.34E-05 | 2.52E-05 | 2.52E-05 | 1.39E-05 | 1.25E-06 | 1.80E-05 | 1.12E-06 | 1.12E-05 | 5.55E-06 |
| 1221 | 258703.11 | 4084164.03 | 1.58E-05 | 2.28E-04 | 1.68E-04 | 1.68E-04 | 9.37E-05 | 2.39E-06 | 3.47E-05 | 2.62E-05 | 2.62E-05 | 1.44E-05 | 1.30E-06 | 1.88E-06 | 1.17E-05 | 1.17E-05 | 5.78E-06 |
| 1222 | 258725.54 | 4084172.33 | 1.64E-05 | 2.37E-04 | 1.75E-04 | 1.75E-04 | 9.73E-05 | 2.48E-06 | 3.61E-05 | 2.72E-05 | 2.72E-05 | 1.50E-05 | 1.35E-06 | 1.95E-05 | 1.21E-05 | 1.21E-05 | 6.00E-06 |
| 1223 | 258747.98 | 4084180.64 | 1.70E-05 | 2.45E-04 | 1.81E-04 | 1.81E-04 | 1.01E-04 | 2.57E-06 | 3.74E-05 | 2.82E-05 | 2.82E-05 | 1.55E-05 | 1.40E-06 | 2.02E-05 | 1.26E-06 | 1.26E-05 | 6.22E-06 |
| 1224 | 258770.41 | 4084188.95 | 1.75E-05 | 2.53E-04 | 1.87E-04 | 1.87E-04 | 1.04E-04 | 2.66E-06 | 3.86E-05 | 2.92E-05 | 2.92E-05 | 1.60E-05 | 1.44E-06 | 2.09E-06 | 1.30E-05 | 1.30E-05 | 6.42E-06 |
| 1225 | 258792.85 | 4084197.25 | 1.80E-05 | 2.61E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.74E-06 | 3.98E-05 | 3.00E-05 | 3.00E-05 | 1.65E-05 | 1.49E-06 | 2.15E-05 | 1.34E-06 | 1.34E-05 | 6.62E-06 |
| 1226 | 258815.28 | 4084205.56 | 1.85E-05 | 2.68E-04 | 1.98E-04 | 1.98E-04 | 1.10E-04 | 2.81E-06 | 4.09E-05 | 3.09E-05 | 3.09E-05 | 1.70E-05 | 1.53E-06 | 2.21E-05 | 1.37E-05 | 1.37E-05 | 6.80E-06 |
| 1227 | 258837.72 | 4084213.87 | 1.90E-05 | 2.75E-04 | 2.02E-04 | 2.02E-04 | 1.13E-04 | 2.88E-06 | 4.19E-05 | 3.16E-06 | 3.16E-06 | 1.74E-05 | 1.57E-06 | 2.26E-05 | 1.41E-05 | 1.41E-05 | 6.96E-06 |
| 1228 | 258860.15 | 4084222.17 | 1.94E-05 | 2.80E-04 | 2.07E-04 | 2.07E-04 | 1.15E-04 | 2.94E-06 | 4.27E-05 | 3.23E-05 | 3.23E-05 | 1.77E-05 | 1.60E-06 | 2.31E-05 | 1.44E-05 | 1.44E-05 | 7.11E-06 |
| 1229 | 258882.59 | 4084230.48 | 1.97E-05 | 2.85E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 2.99E-06 | 4.35E-05 | 3.28E-05 | 3.28E-05 | 1.80E-05 | 1.63E-06 | 2.35E-05 | 1.46E-05 | 1.46E-05 | 7.23E-06 |
| 1230 | 258905.02 | 4084238.78 | 2.00E-05 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.04E-06 | 4.41E-05 | 3.33E-05 | 3.33E-05 | 1.83E-05 | 1.65E-06 | 2.39E-05 | 1.48E-05 | 1.48E-05 | 7.34E-06 |
| 1231 | 258927.46 | 4084247.09 | 2.02E-05 | 2.93E-04 | 2.16E-04 | 2.16E-04 | 1.20E-04 | 3.07E-06 | 4.46E-05 | 3.37E-05 | 3.37E-05 | 1.85E-05 | 1.67E-06 | 2.41E-05 | 1.50E-05 | 1.50E-05 | 7.42E-06 |
| 1232 | 258949.89 | 4084255.4 | 2.04E-05 | 2.95E-04 | 2.17E-04 | 2.17E-04 | 1.21E-04 | 3.09E-06 | 4.49E-05 | 3.39E-05 | 3.39E-05 | 1.86E-05 | 1.68E-06 | 2.43E-05 | 1.51E-05 | 1.51E-05 | 7.47E-06 |
| 1233 | 258982.19 | 4084285.5 | 2.11E-05 | 3.05E-04 | 2.25E-04 | 2.25E-04 | 1.25E-04 | 3.20E-06 | 4.64E-05 | 3.51E-05 | 3.51E-05 | 1.93E-05 | 1.74E-06 | 2.51E-05 | 1.56E-05 | 1.56E-06 | 7.72E-06 |
| 1234 | 258992.05 | 4084307.3 | 2.16E-05 | 3.13E-04 | 2.31E-04 | 2.31E-04 | 1.29E-04 | 3.28E-06 | 4.76E-05 | 3.60E-05 | 3.60E-05 | 1.98E-05 | 1.78E-06 | 2.58E-05 | 1.60E-05 | 1.60E-05 | 7.93E-06 |
| 1235 | 259001.91 | 4084329.09 | 2.21E-05 | 3.19E-04 | 2.35E-04 | 2.35E-04 | 1.31E-04 | 3.35E-06 | 4.87E-05 | 3.68E-05 | 3.68E-05 | 2.02E-05 | 1.82E-06 | 2.63E-05 | 1.64E-05 | 1.64E-06 | 8.10E-06 |
| 1236 | 259011.77 | 4084350.89 | 2.25E-05 | 3.25E-04 | 2.40E-04 | 2.40E-04 | 1.34E-04 | 3.41E-06 | 4.95E-05 | 3.74E-06 | 3.74E-05 | 2.06E-05 | 1.85E-06 | 2.68E-05 | 1.66E-06 | 1.66E-05 | 8.24E-06 |
| 1237 | 259021.63 | 4084372.69 | 2.28E-05 | 3.29E-04 | 2.43E-04 | 2.43E-04 | 1.35E-04 | 3.46E-06 | 5.02E-05 | 3.79E-05 | 3.79E-05 | 2.08E-05 | 1.88E-06 | 2.72E-05 | 1.69E-05 | 1.69E-05 | 8.35E-06 |
| 1238 | 259031.5 | 4084394.48 | 2.30E-06 | 3.32E-04 | 2.45E-04 | 2.45E-04 | 1.37E-04 | 3.49E-06 | 5.06E-05 | 3.83E-05 | 3.83E-05 | 2.10E-05 | 1.89E-06 | 2.74E-05 | 1.70E-05 | 1.70E-05 | 8.42E-06 |
| 1239 | 259041.36 | 4084416.28 | 2.31E-05 | 3.34E-04 | 2.46E-04 | 2.46E-04 | 1.37E-04 | 3.50E-06 | 5.09E-06 | 3.84E-05 | 3.84E-05 | 2.11E-05 | 1.90E-06 | 2.75E-05 | 1.71E-05 | 1.71E-05 | 8.46E-06 |
| 1240 | 25905122 | 4084438.08 | 2.31E-05 | 3.34E-04 | 2.46E-04 | 2.46E-04 | 1.37E-04 | 3.50E-06 | 5.09E-05 | 3.84E-05 | 3.84E-05 | 2.11E-05 | 1.90E-06 | 2.75E-06 | 1.71E-05 | 1.71E-06 | 8.46E-06 |
| 1241 | 259061.08 | 4084459.87 | 2.30E-05 | 3.32E-04 | 2.45E-04 | 2.45E-04 | 1.37E-04 | 3.49E-06 | 5.06E-05 | 3.82E-05 | 3.82E-05 | 2.10E-05 | 1.89E-06 | 2.74E-05 | 1.70E-05 | 1.70E-05 | 8.42E-06 |
| 1242 | 259070.94 | 4084481.67 | 2.28E-06 | 3.29E-04 | 2.43E-04 | 2.43E-04 | 1.35E-04 | 3.46E-06 | 5.02E-05 | 3.79E-05 | 3.79E-06 | 2.08E-05 | 1.88E-06 | 2.72E-05 | 1.69E-05 | 1.69E-06 | 8.35E-06 |
| 1243 | 259080.8 | 4084503.47 | 2.25E-05 | 3.25E-04 | 2.40E-04 | 2.40E-04 | 1.34E-04 | 3.41E-06 | 4.95E-05 | 3.74E-05 | 3.74E-05 | 2.06E-05 | 1.85E-06 | 2.68E-05 | 1.66E-05 | 1.66E-05 | 8.24E-06 |
| 1244 | 259090.66 | 4084525.26 | 2.21E-05 | 3.19E-04 | 2.35E-04 | 2.35E-04 | 1.31E-04 | 3.35E-06 | 4.87E-05 | 3.68E-05 | 3.68E-05 | 2.02E-05 | 1.82E-06 | 2.63E-05 | 1.64E-05 | 1.64E-05 | 8.10E-06 |
| 1245 | 259100.52 | 4084547.06 | 2.16E-05 | 3.13E-04 | 2.31E-04 | 2.31E-04 | 1.29E-04 | 3.28E-06 | 4.76E-05 | 3.60E-05 | 3.60E-05 | 1.98E-05 | 1.78E-06 | 2.58E-05 | 1.60E-05 | 1.60E-05 | 7.93E-06 |
| 1246 | 259110.38 | 4084568.86 | 2.11E-06 | 3.05E-04 | 2.25E-04 | 2.25E-04 | 1.25E-04 | 3.20E-06 | 4.65E-05 | 3.51E-05 | 3.51E-05 | 1.93E-05 | 1.74E-06 | 2.51E-05 | 1.56E-06 | 1.56E-06 | 7.73E-06 |
| 1247 | 259120.24 | 4084590.65 | 2.05E-05 | 2.96E-04 | 2.18E-04 | 2.18E-04 | 1.22E-04 | 3.11E-06 | 4.51E-05 | 3.41E-05 | 3.41E-05 | 1.87E-05 | 1.69E-06 | 2.44E-05 | 1.52E-06 | 1.52E-05 | 7.51E-06 |
| 1248 | 259130.1 | 4084612.45 | 1.98E-05 | 2.87E-04 | 2.11E-04 | 2.11E-04 | 1.18E-04 | 3.01E-06 | 4.37E-05 | 3.30E-05 | 3.30E-05 | 1.81E-05 | 1.63E-06 | 2.36E-05 | 1.47E-06 | 1.47E-05 | 7.27E-06 |
| 1249 | 259139.97 | 4084634.25 | 1.91E-05 | 2.77E-04 | 2.04E-04 | 2.04E-04 | 1.14E-04 | 2.90E-06 | 4.22E-05 | 3.19E-05 | 3.19E-05 | 1.75E-05 | 1.58E-06 | 2.28E-05 | 1.42E-05 | 1.42E-05 | 7.01E-06 |
| 1250 | 259149.83 | 4084656.04 | 1.84E-06 | 2.68E-04 | 1.96E-04 | 1.96E-04 | 1.09E-04 | 2.79E-06 | 4.06E-05 | 3.06E-05 | 3.06E-05 | 1.68E-05 | 1.52E-06 | 2.20E-05 | 1.36E-05 | 1.36E-05 | 6.75E-06 |
| 1251 | 259159.69 | 4084677.84 | 1.77E-05 | 2.56E-04 | 1.89E-04 | 1.89E-04 | 1.05E-04 | 2.69E-06 | 3.90E-05 | 2.95E-05 | 2.95E-05 | 1.62E-05 | 1.46E-06 | 2.11E-05 | 1.31E-05 | 1.31E-05 | 6.49E-06 |
| 1252 | 259169.55 | 4084699.64 | 1.69E-05 | 2.45E-04 | 1.81E-04 | 1.81E-04 | 1.01E-04 | 2.57E-06 | 3.73E-05 | 2.82E-05 | 2.82E-05 | 1.55E-05 | 1.40E-06 | 2.02E-05 | 1.25E-05 | 1.25E-05 | 6.21E-06 |
| 1253 | 259179.41 | 4084721.43 | 1.61E-06 | 

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1047 | 257754.18 | 4084446.49 | 7.30E-06 | 1.06E-04 | 7.78E-05 | 7.78E-05 | 4.34E-05 | 1.11E-06 | 1.61E-05 | 1.21E-05 | 1.21E-05 | 6.68E-06 | 6.02E-07 | 8.70E-06 | 5.41E-06 | 5.41E-06 | 2.68E-06 |
| 1048 | 257729.85 | 4084447.49 | 6.92E-06 | 1.00E-04 | 7.38E-05 | 7.38E-05 | 4.12E-05 | 1.05E-06 | 1.53E-05 | 1.15E-05 | 1.15E-05 | 6.34E-06 | 5.71E-07 | 8.25E-06 | 5.13E-06 | 5.13E-06 | 2.54E-06 |
| 1049 | 257705.51 | 4084448.49 | 6.58E-06 | 9.52E-05 | 7.02E-05 | 7.02E-05 | 3.91E-05 | 9.99E-07 | 1.45E-05 | 1.10E-06 | 1.10E-05 | 6.02E-06 | 5.43E-07 | 7.85E-06 | 4.88E-06 | 4.88E-06 | 2.41E-06 |
| 1050 | 257681.18 | 4084449.49 | 6.28E-06 | 9.08E-06 | 6.69E-05 | 6.69E-05 | 3.73E-05 | 9.53E-07 | 1.38E-05 | 1.05E-05 | 1.05E-05 | 5.75E-06 | 5.18E-07 | 7.49E-06 | 4.65E-06 | 4.65E-06 | 2.30E-06 |
| 1051 | 257656.85 | 4084450.49 | 6.00E-06 | 8.68E-05 | 6.40E-06 | 6.40E-05 | 3.57E-05 | 9.11E-07 | 1.32E-05 | 9.99E-06 | 9.99E-06 | 5.49E-06 | 4.95E-07 | 7.16E-06 | 4.45E-06 | 4.45E-06 | 2.20E-06 |
| 1052 | 257632.52 | 4084451.49 | 5.75E-06 | 8.32E-05 | 6.13E-05 | 6.13E-05 | 3.42E-05 | 8.73E-07 | 1.27E-05 | 9.58E-06 | 9.58E-06 | 5.27E-06 | 4.74E-07 | 6.86E-06 | 4.26E-06 | 4.26E-06 | 2.11E-06 |
| 1053 | 257608.19 | 4084452.49 | 5.53E-06 | 7.99E-05 | 5.89E-06 | 5.89E-05 | 3.28E-05 | 8.39E-07 | 1.22E-05 | 9.20E-06 | 9.20E-06 | 5.06E-06 | 4.56E-07 | 6.59E-06 | 4.09E-06 | 4.09E-06 | 2.03E-06 |
| 1054 | 257583.86 | 4084453.49 | 5.32E-06 | 7.69E-06 | 5.67E-06 | 5.67E-05 | 3.16E-05 | 8.07E-07 | 1.17E-05 | 8.85E-06 | 8.85E-06 | 4.86E-06 | 4.38E-07 | 6.34E-06 | 3.94E-06 | 3.94E-06 | 1.95E-06 |
| 1055 | 257559.52 | 4084454.49 | 5.12E-06 | 7.40E-05 | 5.46E-06 | 5.46E-05 | 3.04E-05 | 7.77E-07 | 1.13E-05 | 8.52E-06 | 8.52E-06 | 4.68E-06 | 4.22E-07 | 6.10E-06 | 3.79E-06 | 3.79E-06 | 1.88E-06 |
| 1056 | 257535.19 | 4084455.49 | 4.93E-06 | 7.14E-05 | 5.26E-05 | 5.26E-05 | 2.93E-05 | 7.49E-07 | 1.09E-05 | 8.21E-06 | 8.21E-06 | 4.52E-06 | 4.07E-07 | 5.88E-06 | 3.65E-06 | 3.65E-06 | 1.81E-06 |
| 1057 | 258356.86 | 4084331.02 | 1.88E-05 | 2.72E-04 | 2.00E-04 | 2.00E-04 | 1.12E-04 | 2.85E-06 | 4.14E-05 | 3.13E-05 | 3.13E-05 | 1.72E-05 | 1.55E-06 | 2.24E-05 | 1.39E-05 | 1.39E-05 | 6.89E-06 |
| 1058 | 258379.69 | 4084339.47 | 2.01E-05 | 2.91E-04 | 2.14E-04 | 2.14E-04 | 1.19E-04 | 3.05E-06 | 4.43E-06 | 3.34E-05 | 3.34E-05 | 1.84E-06 | 1.66E-06 | 2.40E-05 | 1.49E-05 | 1.49E-05 | 7.36E-06 |
| 1059 | 258402.52 | 4084347.92 | 2.14E-05 | 3.10E-04 | 2.28E-04 | 2.28E-04 | 1.27E-04 | 3.25E-06 | 4.72E-05 | 3.57E-05 | 3.57E-05 | 1.96E-05 | 1.77E-06 | 2.55E-05 | 1.59E-05 | 1.59E-05 | 7.85E-06 |
| 1060 | 258425.35 | 4084356.37 | 2.28E-06 | 3.29E-04 | 2.43E-04 | 2.43E-04 | 1.35E-04 | 3.46E-06 | 5.02E-05 | 3.79E-05 | 3.79E-05 | 2.08E-05 | 1.88E-06 | 2.71E-05 | 1.69E-05 | 1.69E-05 | 8.36E-06 |
| 1061 | 258448.18 | 4084364.83 | 2.41E-05 | 3.49E-04 | 2.57E-04 | 2.57E-04 | 1.43E-04 | 3.66E-06 | 5.31E-05 | 4.01E-05 | 4.01E-05 | 2.21E-05 | 1.99E-06 | 2.88E-05 | 1.79E-05 | 1.79E-05 | 8.84E-06 |
| 1062 | 258471.01 | 4084373.28 | 2.55E-05 | 3.68E-04 | 2.72E-04 | 2.72E-04 | 1.51E-04 | 3.87E-06 | 5.61E-05 | 4.24E-05 | 4.24E-05 | 2.33E-05 | 2.10E-06 | 3.04E-05 | 1.89E-05 | 1.89E-05 | 9.34E-06 |
| 1063 | 258493.84 | 4084381.73 | 2.68E-05 | 3.88E-04 | 2.85E-04 | 2.86E-04 | 1.59E-04 | 4.07E-06 | 5.91E-05 | 4.46E-05 | 4.46E-05 | 2.45E-05 | 2.21E-06 | 3.20E-05 | 1.99E-05 | 1.99E-05 | 9.83E-06 |
| 1064 | 258516.66 | 4084390.18 | 2.81E-05 | 4.07E-04 | 3.00E-04 | 3.00E-04 | 1.67E-04 | 4.27E-06 | 6.20E-05 | 4.68E-05 | 4.68E-05 | 2.57E-05 | 2.32E-06 | 3.35E-05 | 2.08E-05 | 2.08E-05 | 1.03E-05 |
| 1065 | 258539.49 | 4084398.63 | 2.94E-05 | 4.25E-04 | 3.14E-04 | 3.14E-04 | 1.75E-04 | 4.46E-06 | 6.48E-05 | 4.90E-05 | 4.90E-05 | 2.69E-06 | 2.42E-06 | 3.51E-05 | 2.18E-05 | 2.18E-05 | 1.08E-05 |
| 1066 | 258562.32 | 4084407.09 | 3.06E-05 | 4.43E-04 | 3.27E-04 | 3.27E-04 | 1.82E-04 | 4.65E-06 | 6.75E-05 | 5.10E-05 | 5.10E-05 | 2.80E-05 | 2.53E-06 | 3.65E-05 | 2.27E-05 | 2.27E-05 | 1.12E-05 |
| 1067 | 258585.15 | 4084415.54 | 3.18E-05 | 4.60E-04 | 3.39E-04 | 3.39E-04 | 1.89E-04 | 4.83E-06 | 7.01E-05 | 5.29E-05 | 5.29E-05 | 2.91E-06 | 2.62E-06 | 3.79E-06 | 2.36E-05 | 2.36E-05 | 1.17E-05 |
| 1068 | 258607.98 | 4084423.99 | 3.29E-05 | 4.76E-04 | 3.50E-04 | 3.50E-04 | 1.95E-04 | 4.99E-06 | 7.24E-05 | 5.47E-05 | 5.47E-05 | 3.01E-05 | 2.71E-06 | 3.92E-05 | 2.43E-05 | 2.43E-06 | 1.21E-05 |
| 1069 | 258630.81 | 4084432.44 | 3.38E-05 | 4.90E-04 | 3.61E-04 | 3.61E-04 | 2.01E-04 | 5.14E-06 | 7.46E-05 | 5.63E-05 | 5.63E-05 | 3.10E-05 | 2.79E-06 | 4.04E-05 | 2.51E-05 | 2.51E-05 | 1.24E-05 |
| 1070 | 258653.64 | 4084440.9 | 3.47E-05 | 5.02E-04 | 3.70E-04 | 3.70E-04 | 2.06E-04 | 5.27E-06 | 7.65E-05 | 5.78E-05 | 5.78E-05 | 3.18E-05 | 2.86E-06 | 4.14E-05 | 2.57E-05 | 2.57E-05 | 1.27E-05 |
| 1071 | 258676.47 | 4084449.35 | 3.54E-05 | 5.12E-04 | 3.78E-04 | 3.78E-04 | 2.10E-04 | 5.37E-06 | 7.80E-06 | 5.89E-05 | 5.89E-05 | 3.24E-05 | 2.92E-06 | 4.22E-05 | 2.62E-05 | 2.62E-05 | 1.30E-05 |
| 1072 | 258699.29 | 4084457.8 | 3.60E-05 | 5.20E-04 | 3.83E-04 | 3.83E-04 | 2.14E-04 | 5.46E-06 | 7.92E-05 | 5.98E-05 | 5.98E-05 | 3.29E-05 | 2.96E-06 | 4.29E-05 | 2.66E-05 | 2.66E-05 | 1.32E-05 |
| 1073 | 258722.12 | 4084466.25 | 3.63E-05 | 5.24E-04 | 3.86E-04 | 3.86E-04 | 2.15E-04 | 5.50E-06 | 7.99E-05 | 6.03E-05 | 6.03E-05 | 3.32E-05 | 2.99E-06 | 4.32E-05 | 2.68E-05 | 2.68E-05 | 1.33E-05 |
| 1074 | 258744.95 | 4084474.7 | 3.64E-05 | 5.26E-04 | 3.88E-04 | 3.88E-04 | 2.16E-04 | 5.52E-06 | 8.01E-05 | 6.05E-05 | 6.05E-05 | 3.33E-05 | 3.00E-06 | 4.34E-05 | 2.69E-05 | 2.69E-05 | 1.33E-05 |
| 1075 | 258767.81 | 4084505.33 | 3.76E-05 | 5.44E-04 | 4.01E-04 | 4.01E-04 | 2.23E-04 | 5.71E-06 | 8.28E-05 | 6.26E-05 | 6.26E-05 | 3.44E-05 | 3.10E-06 | 4.48E-05 | 2.78E-05 | 2.78E-05 | 1.38E-05 |
| 1076 | 258787.85 | 4084527.51 | 3.87E-05 | 5.60E-04 | 4.12E-04 | 4.12E-04 | 2.30E-04 | 5.87E-06 | 8.53E-05 | 6.44E-05 | 6.44E-05 | 3.54E-05 | 3.19E-06 | 4.61E-05 | 2.87E-05 | 2.87E-05 | 1.42E-05 |
| 1077 | 258797.88 | 4084549.69 | 3.95E-05 | 5.72E-04 | 4.22E-04 | 4.22E-04 | 2.35E-04 | 6.00E-06 | 8.71E-06 | 6.58E-05 | 6.58E-05 | 3.62E-06 | 3.26E-06 | 4.71E-05 | 2.93E-05 | 2.93E-05 | 1.45E-05 |
| 1078 | 258807.92 | 4084571.87 | 4.01E-05 | 5.81E-04 | 4.28E-04 | 4.28E-04 | 2.39E-04 | 6.09E-06 | 8.84E-05 | 6.68E-05 | 6.68E-05 | 3.67E-05 | 3.31E-06 | 4.79E-05 | 2.97E-05 | 2.97E-05 | 1.47E-05 |
| 1079 | 258817.95 | 4084594.05 | 4.04E-05 | 5.85E-04 | 4.31E-04 | 4.31E-04 | 2.40E-04 | 6.14E-06 | 8.91E-05 | 6.73E-05 | 6.73E-05 | 3.70E-05 | 3.33E-06 | 4.82E-05 | 2.99E-05 | 2.99E-05 | 1.48E-05 |
| 1080 | 258827.98 | 4084616.23 | 4.04E-05 | 5.84E-04 | 4.31E-04 | 4.31E-04 | 2.40E-04 | 6.13E-06 | 8.90E-05 | 6.72E-05 | 6.72E-05 | 3.70E-05 | 3.33E-06 | 4.82E-05 | 2.99E-05 | 2.99E-05 | 1.48E-06 |
| 1081 | 258838.02 | 4084638.41 | 4.00E-05 | 5.79E-04 | 4.27E-04 | 4.27E-04 | 2.38E-04 | 6.08E-06 | 8.82E-05 | 6.66E-05 | 6.66E-05 | 3.66E-05 | 3.30E-06 | 4.77E-05 | 2.97E-05 | 2.97E-05 | 1.47E-05 |
| 1082 | 258848.05 | 4084660.59 | 3.94E-05 | 5.69E-04 | 4.19E-04 | 4.19E-04 | 2.34E-04 | 5.97E-06 | 8.67E-05 | 6.55E-05 | 6.55E-05 | 3.60E-05 | 3.24E-06 | 4.69E-05 | 2.91E-05 | 2.91E-05 | 1.44E-05 |
| 1083 | 258858.09 | 4084682.77 | 3.83E-05 | 5.55E-04 | 4.09E-04 | 4.09E-04 | 2.28E-04 | 5.82E-06 | 8.45E-05 | 6.38E-05 | 6.38E-05 | 3.51E-05 | 3.16E-06 | 4.57E-05 | 2.84E-05 | 2.84E-06 | 1.41E-05 |
| 1084 | 258868.12 | 4084704.95 | 3.71E-05 | 5.36E-04 | 3.95E-04 | 3.95E-04 | 2.20E-04 | 5.63E-06 | 8.17E-05 | 6.17E-05 | 6.17E-05 | 3.39E-05 | 3.06E-06 | 4.42E-05 | 2.74E-05 | 2.74E-05 | 1.36E-05 |
| 1085 | 258878.15 | 4084727.12 | 3.55E-05 | 5.14E-04 | 3.79E-04 | 3.79E-04 | 2.11E-04 | 5.39E-06 | 7.83E-05 | 5.92E-05 | 5.92E-05 | 3.25E-05 | 2.93E-06 | 4.24E-05 | 2.63E-05 | 2.63E-05 | 1.30E-05 |
| 1086 | 258888.19 | 4084749.3 | 3.38E-05 | 4.89E-04 | 3.61E-04 | 3.61E-04 | 2.01E-04 | 5.13E-06 | 7.45E-05 | 5.63E-05 | 5.63E-05 | 3.10E-06 | 2.79E-06 | 4.03E-05 | 2.51E-05 | 2.51E-05 | 1.24E-05 |
| 1087 | 258898.22 | 4084771.48 | 3.20E-05 | 4.63E-04 | 3.41E-04 | 3.41E-04 | 1.90E-04 | 4.86E-06 | 7.05E-05 | 5.32E-05 | 5.32E-05 | 2.93E-05 | 2.64E-06 | 3.81E-05 | 2.37E-05 | 2.37E-05 | 1.17E-05 |
| 1088 | 258908.26 | 4084793.66 | 3.01E-05 | 4.35E-04 | 3.21E-04 | 3.21E-04 | 1.79E-04 | 4.56E-06 | 6.63E-05 | 5.01E-05 | 5.01E-05 | 2.75E-05 | 2.48E-06 | 3.59E-05 | 2.23E-05 | 2.23E-05 | 1.10E-06 |
| 1089 | 258918.29 | 4084815.84 | 2.82E-05 | 4.07E-04 | 3.00E-04 | 3.00E-04 | 1.67E-04 | 4.27E-06 | 6.20E-05 | 4.69E-05 | 4.69E-05 | 2.58E-06 | 2.32E-06 | 3.36E-05 | 2.08E-05 | 2.08E-05 | 1.03E-05 |
| 1090 | 258928.32 | 4084838.02 | 2.63E-05 | 3.80E-04 | 2.80E-04 | 2.80E-04 | 1.56E-04 | 3.99E-06 | 5.79E-05 | 4.37E-05 | 4.37E-05 | 2.40E-05 | 2.17E-06 | 3.13E-05 | 1.95E-05 | 1.95E-05 | 9.63E-06 |
| 1091 | 258938.36 | 4084860.2 | 2.45E-05 | 3.54E-04 | 2.61E-04 | 2.61E-04 | 1.45E-04 | 3.71E-06 | 5.39E-05 | 4.07E-05 | 4.07E-05 | 2.24E-05 | 2.02E-06 | 2.92E-05 | 1.81E-05 | 1.81E-06 | 8.96E-06 |
| 1092 | 258948.39 | 4084882.38 | 2.27E-05 | 3.29E-04 | 2.42E-04 | 2.42E-04 | 1.35E-04 | 3.45E-06 | 5.01E-05 | 3.78E-05 | 3.78E-05 | 2.08E-05 | 1.87E-06 | 2.71E-05 | 1.68E-05 | 1.68E-05 | 8.33E-06 |
| 1093 | 258334.03 | 4084322.57 | 1.75E-05 | 2.53E-04 | 1.87E-04 | 1.87E-04 | 1.04E-04 | 2.66E-06 | 3.86E-05 | 2.92E-05 | 2.92E-05 | 1.60E-05 | 1.44E-06 | 2.09E-05 | 1.30E-05 | 1.30E-05 | 6.42E-06 |
| 1094 | 258309.7 | 4084323.57 | 1.69E-05 | 2.44E-04 | 1.80E-04 | 1.80E-04 | 1.00E-04 | 2.56E-06 | 3.72E-05 | 2.81E-05 | 2.81E-05 | 1.54E-05 | 1.39E-06 | 2.01E-05 | 1.25E-05 | 1.25E-05 | 6.19E-06 |
| 1095 | 258285.37 | 4084324.57 | 1.62E-05 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.64E-05 | 2.46E-06 | 3.57E-05 | 2.70E-05 | 2.70E-05 | 1.48E-05 | 1.34E-06 | 1.93E-05 | 1.20E-05 | 1.20E-05 | 5.95E-06 |
| 1096 | 258261.04 | 4084325.57 | 1.56E-05 | 2.25E-04 | 1.66E-04 | 1.66E-04 | 9.25E-05 | 2.36E-06 | 3.43E-05 | 2.59E-05 | 2.59E-05 | 1.42E-05 | 1.28E-06 | 1.85E-05 | 1.15E-05 | 1.15E-05 | 5.70E-06 |
| 1097 | 258236.71 | 4084326.57 | 1.49E-05 | 2.15E-04 | 1.59E-04 | 1.59E-04 | 8.84E-05 | 2.26E-06 | 3.28E-05 | 2.48E-05 | 2.48E-06 | 1.36E-05 | 1.23E-06 | 1.77E-05 | 1.10E-05 | 1.10E-05 | 5.45E-06 |
| 1098 | 258212.38 | 4084327.57 | 1.42E-05 | 2.05E-04 | 1.51E-04 | 1.51E-04 | 8.44E-06 | 2.15E-06 | 3.13E-05 | 2.36E-05 | 2.36E-05 | 1.30E-05 | 1.17E-06 | 1.69E-05 | 1.05E-05 | 1.05E-05 | 5.20E-06 |
| 1099 | 258188.04 | 4084328.57 | 1.35E-05 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.03E-05 | 2.05E-06 | 2.98E-05 | 2.25E-05 | 2.25E-05 | 1.24E-06 | 1.11E-06 | 1.61E-05 | 1.00E-05 | 1.00E-05 | 4.95E-06 |
| 1100 | 258163.71 | 4084329.57 | 1.28E-05 | 1.86E-04 | 1.37E-04 | 1.37E-04 | 7.63E-05 | 1.95E-06 | 2.83E-05 | 2.14E-05 | 2.14E-05 | 1.18E-05 | 1.06E-06 | 1.53E-05 | 9.51E-06 | 9.51E-06 | 4.71E-06 |
| 1101 | 258139.38 | 4084330.57 | 1.22E-05 | 1.76E-04 | 1.30E-04 | 1.30E-04 | 7.24E-05 | 1.85E-06 | 2.68E-05 | 2.03E-05 | 2.03E-05 | 1.11E-05 | 1.00E-06 | 1.45E-05 | 9.02E-06 | 9.02E-06 | 4.46E-06 |
| 1102 | 258115.05 | 4084331.57 | 1.15E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.85E-05 | 1.75E-06 | 2.54E-05 | 1.92E-05 | 1.92E-05 | 1.06E-05 | 9.51E-07 | 1.37E-05 | 8.54E-06 | 8.54E-06 | 4.23E-06 |
| 1103 | 258090.72 | 4084332.57 | 1.09E-05 | 1.58E-04 | 1.16E-04 | 1.16E-04 | 6.48E-05 | 1.66E-06 | 2.40E-05 | 1.82E-05 | 1.82E-05 | 9.98E-06 | 8.99E-07 | 1.30E-05 | 8.08E-06 | 8.08E-06 | 4.00E-06 |
| 1104 | 258066.38 | 4084333.57 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.13E-05 | 1.57E-06 | 2.27E-05 | 1.72E-05 | 1.72E-05 | 9.44E-06 | 8.50E-07 | 1.23E-05 | 7.64E-06 | 7.64E-06 | 3.78E-06 |
| 1105 | 258042.05 | 4084334.57 | 9.75E-06 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.79E-05 | 1.48E-06 | 2.15E-05 | 1.62E-05 | 1.62E-05 | 8.92E-06 | 8.03E-07 | 1.16E-05 | 7.22E-06 | 7.22E-06 | 3.57E-06 |
| 1106 | 258017.72 | 4084335.57 | 9.21E-06 | 1.33E-04 | 9.82E-05 | 9.82E-05 | 5.48E-05 | 1.40E-06 | 2.03E-05 | 1.53E-05 | 1.53E-05 | 8.43E-06 | 7.60E-07 | 1.10E-05 | 6.82E-06 | 6.82E-06 | 3.38E-06 |
| 1107 | 257993.39 | 4084336.57 | 8.71E-06 | 1.26E-04 | 9.29E-05 | 9.29E-05 | 5.18E-05 | 1.32E-06 | 1.92E-05 | 1.45E-05 | 1.45E-05 | 7.97E-06 | 7.18E-07 | 1.04E-05 | 6.45E-06 | 6.45E-06 | 3.19E-06 |
| 1108 | 257969.06 | 4084337.57 | 8.25E-06 | 1.19E-04 | 8.79E-05 | 8.79E-05 | 4.90E-05 | 1.25E-06 | 1.82E-05 | 1.37E-05 | 1.37E-05 | 7.55E-06 | 6.80E-07 | 9.83E-06 | 6.11E-06 | 6.11E-06 | 3.02E-06 |
| 1109 | 257944.73 | 4084338.57 | 7.81E-06 | 1.13E-04 | 8.33E-05 | 8.33E-05 | 4.64E-05 | 1.19E-06 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.15E-06 | 6.44E-07 | 9.31E-06 | 5.78E-06 | 5.78E-06 | 2.86E-06 |
| 1110 | 257920.39 | 4084339.57 | 7.41E-06 | 1.07E-04 | 7.89E-05 | 7.89E-05 | 4.40E-05 | 1.12E-06 | 1.63E-05 | 1.23E-05 | 1.23E-05 | 6.78E-06 | 6.10E-07 | 8.83E-06 | 5.48E-06 | 5.48E-06 | 2.71E-06 |
| 1111 | 257896.06 | 4084340.57 | 7.03E-06 | 1.02E-04 | 7.49E-06 | 7.49E-05 | 4.18E-05 | 1.07E-06 | 1.55E-05 | 1.17E-05 | 1.17E-05 | 6.43E-06 | 5.79E-07 | 8.38E-06 | 5.20E-06 | 5.20E-06 | 2.58E-06 |
| 1112 | 257871.73 | 4084341.57 | 6.68E-06 | 9.66E-05 | 7.12E-05 | 7.12E-05 | 3.97E-05 | 1.01E-06 | 1.47E-05 | 1.11E-06 | 1.11E-05 | 6.11E-06 | 5.50E-07 | 7.96E-06 | 4.95E-06 | 4.95E-06 | 2.45E-06 |
| 1113 | 257847.4 | 4084342.57 | 6.35E-06 | 9.18E-05 | 6.77E-06 | 6.77E-05 | 3.77E-05 | 9.64E-07 | 1.40E-05 | 1.06E-05 | 1.06E-05 | 5.81E-06 | 5.23E-07 | 7.57E-06 | 4.70E-06 | 4.70E-06 | 2.33E-06 |
| 1114 | 257823.07 | 4084343.57 | 6.05E-06 | 8.75E-06 | 6.45E-05 | 6.45E-05 | 3.59E-05 | 9.18E-07 | 1.33E-05 | 1.01E-05 | 1.01E-06 | 5.53E-06 | 4.98E-07 | 7.21E-06 | 4.48E-06 | 4.48E-06 | 2.22E-06 |
| 1115 | 257798.73 | 4084344.57 | 5.77E-06 | 8.34E-06 | 6.15E-05 | 6.15E-05 | 3.43E-05 | 8.75E-07 | 1.27E-05 | 9.60E-06 | 9.60E-06 | 5.28E-06 | 4.75E-07 | 6.87E-06 | 4.27E-06 | 4.27E-06 | 2.11E-06 |
| 1116 | 257774.4 | 4084345.57 | 5.50E-06 | 7.96E-05 | 5.87E-05 | 5.87E-05 | 3.27E-05 | 8.35E-07 | 1.21E-05 | 9.16E-06 | 9.16E-06 | 5.04E-06 | 4.54E-07 | 6.56E-06 | 4.08E-06 | 4.08E-06 | 2.02E-06 |
| 1117 | 257750.07 | 4084346.57 | 5.26E-06 | 7.61E-05 | 5.61E-05 | 5.61E-05 | 3.13E-05 | 7.99E-07 | 1.16E-05 | 8.76E-06 | 8.76E-06 | 4.82E-06 | 4.34E-07 | 6.28E-06 | 3.90E-06 | 3.90E-06 | 1.93E-06 |
| 1118 | 257725.74 | 4084347.57 | 5.04E-06 | 7.29E-06 | 5.38E-05 | 5.38E-05 | 3.00E-05 | 7.65E-07 | 1.11E-06 | 8.39E-06 | 8.39E-06 | 4.61E-06 | 4.16E-07 | 6.01E-06 | 3.73E-06 | 3.73E-06 | 1.85E-06 |
| 1119 | 257701.41 | 4084348.57 | 4.84E-06 | 7.00E-05 | 5.16E-05 | 5.16E-05 | 2.88E-05 | 7.35E-07 | 1.07E-05 | 8.06E-06 | 8.06E-06 | 4.43E-06 | 3.99E-07 | 5.77E-06 | 3.59E-06 | 3.59E-06 | 1.77E-06 |
| 1120 | 257677.08 | 4084349.57 | 4.66E-06 | 6.74E-05 | 4.97E-06 | 4.97E-05 | 2.77E-05 | 7.07E-07 | 1.03E-05 | 7.75E-06 | 7.75E-06 | 4.26E-06 | 3.84E-07 | 5.55E-06 | 3.45E-06 | 3.45E-06 | 1.71E-06 |
| 1121 | 257652.74 | 4084350.57 | 4.49E-06 | 6.49E-05 | 4.78E-06 | 4.78E-05 | 2.67E-05 | 6.81E-07 | 9.89E-06 | 7.47E-06 | 7.47E-06 | 4.11E-06 | 3.70E-07 | 5.35E-06 | 3.32E-06 | 3.32E-06 | 1.64E-06 |
| 1122 | 257628.41 | 4084351.58 | 4.33E-06 | 6.27E-05 | 4.62E-05 | 4.62E-05 | 2.58E-05 | 6.58E-07 | 9.55E-06 | 7.21E-06 | 7.21E-06 | 3.97E-06 | 3.57E-07 | 5.17E-06 | 3.21E-06 | 3.21E-06 | 1.59E-06 |
| 1123 | 257604.08 | 4084352.58 | 4.19E-06 | 6.06E-05 | 4.47E-06 | 4.47E-05 | 2.49E-05 | 6.36E-07 | 9.24E-06 | 6.98E-06 | 6.98E-06 | 3.84E-06 | 3.46E-07 | 5.00E-06 | 3.10E-06 | 3.10E-06 | 1.54E-06 |
| 1124 | 257579.75 | 4084353.58 | 4.06E-06 | 5.87E-06 | 4.33E-05 | 4.33E-05 | 2.41E-05 | 6.16E-07 | 8.95E-06 | 6.76E-06 | 6.76E-06 | 3.72E-06 | 3.35E-07 | 4.84E-06 | 3.01E-06 | 3.01E-06 | 1.49E-06 |
| 1125 | 257555.42 | 4084354.58 | 3.94E-06 | 5.70E-06 | 4.20E-05 | 4.20E-05 | 2.34E-05 | 5.98E-07 | 8.68E-06 | 6.56E-06 | 6.56E-06 | 3.60E-06 | 3.25E-07 | 4.70E-06 | 2.92E-06 | 2.92E-06 | 1.44E-06 |
| 1126 | 257531.08 | 4084355.58 | 3.83E-06 | 5.53E-06 | 4.08E-05 | 4.08E-05 | 2.27E-05 | 5.81E-07 | 8.43E-06 | 6.37E-06 | 6.37E-06 | 3.50E-06 | 3.15E-07 | 4.56E-06 | 2.83E-06 | 2.83E-06 | 1.40E-06 |
| 1127 | 258351.93 | 4084230.8 | 1.27E-05 | 1.84E-04 | 1.36E-04 | 1.36E-04 | 7.57E-05 | 1.93E-06 | 2.81E-05 | 2.12E-05 | 2.12E-06 | 1.17E-05 | 1.05E-06 | 1.52E-05 | 9.43E-06 | 9.43E-06 | 4.67E-06 |
| 1128 | 258373.93 | 4084238.94 | 1.36E-05 | 1.97E-04 | 1.45E-04 | 1.45E-04 | 8.09E-05 | 2.07E-06 | 3.00E-06 | 2.27E-05 | 2.27E-05 | 1.25E-05 | 1.12E-06 | 1.62E-05 | 1.01E-05 | 1.01E-06 | 4.99E-06 |
| 1129 | 258395.93 | 4084247.09 | 1.45E-05 | 2.10E-04 | 1.55E-04 | 1.55E-04 | 8.64E-05 | 2.21E-06 | 3.20E-05 | 2.42E-05 | 2.42E-05 | 1.33E-05 | 1.20E-06 | 1.73E-06 | 1.08E-06 | 1.08E-05 | 5.33E-06 |
| 1130 | 258417.93 | 4084255.23 | 1.55E-05 | 2.24E-04 | 1.65E-04 | 1.65E-04 | 9.20E-05 | 2.35E-06 | 3.41E-05 | 2.58E-06 | 2.58E-05 | 1.42E-05 | 1.28E-06 | 1.85E-06 | 1.15E-06 | 1.15E-05 | 5.67E-06 |
| 1131 | 258439.93 | 4084263.38 | 1.65E-05 | 2.38E-04 | 1.75E-04 | 1.75E-04 | 9.78E-05 | 2.50E-06 | 3.63E-05 | 2.74E-05 | 2.74E-05 | 1.51E-05 | 1.36E-06 | 1.96E-05 | 1.22E-06 | 1.22E-05 | 6.03E-06 |
| 1132 | 258461.94 | 4084271.53 | 1.74E-05 | 2.52E-04 | 1.86E-04 | 1.86E-04 | 1.04E-04 | 2.65E-06 | 3.84E-05 | 2.90E-05 | 2.90E-05 | 1.60E-05 | 1.44E-06 | 2.08E-05 | 1.29E-05 | 1.29E-05 | 6.40E-06 |
| 1133 | 256483.94 | 4084279.67 | 1.84E-05 | 2.67E-04 | 1.97E-04 | 1.97E-04 | 1.10E-04 | 2.80E-06 | 4.06E-05 | 3.07E-05 | 3.07E-05 | 1.69E-05 | 1.52E-06 | 2.20E-05 | 1.37E-06 | 1.37E-05 | 6.76E-06 |
| 1134 | 258505.94 | 4084287.82 | 1.95E-05 | 2.81E-04 | 2.07E-04 | 2.07E-04 | 1.16E-04 | 2.95E-06 | 4.29E-05 | 3.24E-05 | 3.24E-05 | 1.78E-05 | 1.60E-06 | 2.32E-06 | 1.44E-06 | 1.44E-05 | 7.13E-06 |
| 1135 | 258527.94 | 4084295.96 | 2.05E-05 | 2.96E-04 | 2.18E-04 | 2.18E-04 | 1.22E-04 | 3.10E-06 | 4.51E-06 | 3.41E-05 | 3.41E-05 | 1.87E-05 | 1.69E-06 | 2.44E-05 | 1.52E-06 | 1.52E-05 | 7.50E-06 |
| 1136 | 258549.94 | 4084304.11 | 2.15E-05 | 3.10E-04 | 2.29E-04 | 2.29E-04 | 1.28E-04 | 3.26E-06 | 4.73E-05 | 3.57E-05 | 3.57E-05 | 1.96E-05 | 1.77E-06 | 2.56E-05 | 1.59E-05 | 1.59E-05 | 7.87E-06 |
| 1137 | 258571.94 | 4084312.25 | 2.24E-05 | 3.24E-04 | 2.39E-04 | 2.39E-04 | 1.33E-04 | 3.40E-06 | 4.94E-05 | 3.73E-05 | 3.73E-05 | 2.05E-05 | 1.85E-06 | 2.67E-05 | 1.66E-05 | 1.66E-05 | 8.22E-06 |
| 1138 | 258593.95 | 4084320.4 | 2.34E-05 | 3.38E-04 | 2.49E-04 | 2.49E-04 | 1.39E-04 | 3.55E-06 | 5.15E-05 | 3.89E-05 | 3.89E-05 | 2.14E-05 | 1.93E-06 | 2.79E-05 | 1.73E-05 | 1.73E-05 | 8.57E-06 |
| 1139 | 258615.95 | 4084328.55 | 2.43E-05 | 3.52E-04 | 2.59E-04 | 2.59E-04 | 1.44E-04 | 3.69E-06 | 5.36E-05 | 4.05E-05 | 4.05E-05 | 2.22E-05 | 2.00E-06 | 2.90E-06 | 1.80E-06 | 1.80E-05 | 8.91E-06 |
| 1140 | 258637.95 | 4084336.69 | 2.52E-05 | 3.64E-04 | 2.69E-04 | 2.69E-04 | 1.50E-04 | 3.82E-06 | 5.55E-05 | 4.19E-05 | 4.19E-05 | 2.30E-05 | 2.08E-06 | 3.00E-05 | 1.87E-05 | 1.87E-05 | 9.23E-06 |
| 1141 | 258659.95 | 4084344.84 | 2.60E-05 | 3.76E-04 | 2.77E-04 | 2.77E-04 | 1.55E-04 | 3.95E-06 | 5.73E-05 | 4.33E-05 | 4.33E-05 | 2.38E-05 | 2.14E-06 | 3.10E-05 | 1.93E-05 | 1.93E-05 | 9.54E-06 |
| 1142 | 258681.95 | 4084352.98 | 2.68E-05 | 3.87E-04 | 2.86E-04 | 2.86E-04 | 1.59E-04 | 4.06E-06 | 5.90E-06 | 4.46E-05 | 4.46E-05 | 2.45E-05 | 2.21E-06 | 3.19E-06 | 1.98E-05 | 1.98E-05 | 9.82E-06 |
| 1143 | 258703.95 | 4084361.13 | 2.75E-05 | 3.97E-04 | 2.93E-04 | 2.93E-04 | 1.63E-04 | 4.17E-06 | 6.05E-05 | 4.57E-05 | 4.57E-05 | 2.51E-05 | 2.26E-06 | 3.28E-05 | 2.03E-05 | 2.03E-05 | 1.01E-05 |
| 1144 | 258725.96 | 4084369.28 | 2.81E-05 | 4.06E-04 | 2.99E-04 | 2.99E-04 | 1.67E-04 | 4.26E-06 | 6.18E-06 | 4.67E-05 | 4.67E-05 | 2.57E-05 | 2.31E-06 | 3.35E-06 | 2.08E-05 | 2.08E-05 | 1.03E-05 |
| 1145 | 258747.96 | 4084377.42 | 2.86E-05 | 4.14E-04 | 3.05E-04 | 3.05E-04 | 1.70E-04 | 4.34E-06 | 6.30E-05 | 4.76E-05 | 4.76E-05 | 2.62E-05 | 2.36E-06 | 3.41E-05 | 2.12E-06 | 2.12E-05 | 1.05E-05 |
| 1146 | 258769.96 | 4084385.57 | 2.90E-05 | 4.19E-04 | 3.09E-04 | 3.09E-04 | 1.72E-04 | 4.40E-06 | 6.39E-05 | 4.82E-05 | 4.82E-05 | 2.65E-05 | 2.39E-06 | 3.46E-05 | 2.15E-05 | 2.15E-05 | 1.06E-05 |
| 1147 | 258791.96 | 4084393.71 | 2.93E-05 | 4.23E-04 | 3.12E-04 | 3.12E-04 | 1.74E-04 | 4.44E-06 | 6.45E-05 | 4.87E-05 | 4.87E-05 | 2.68E-05 | 2.41E-06 | 3.49E-05 | 2.17E-05 | 2.17E-05 | 1.07E-05 |
| 1148 | 258813.96 | 4084401.86 | 2.93E-05

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 942 | 258520.2 | 4084588.28 | 5.85E-05 | 8.46E-04 | 6.24E-04 | 6.24E-04 | 3.48E-04 | 8.88E-06 | 1.29E-04 | 9.74E-05 | 9.74E-05 | 5.36E-05 | 4.82E-06 | 6.98E-05 | 4.33E-05 | 4.33E-05 | 2.15E-05 |
| 943 | 258542.44 | 4084596.52 | 5.99E-05 | 8.67E-04 | 6.39E-04 | 6.39E-04 | 3.56E-04 | 9.09E-06 | 1.32E-04 | 9.97E-05 | 9.97E-05 | 5.48E-05 | 4.94E-06 | 7.14E-05 | 4.44E-05 | 4.44E-05 | 2.20E-05 |
| 944 | 258564.68 | 4084604.75 | 6.10E-06 | 8.82E-04 | 6.50E-04 | 6.50E-04 | 3.62E-04 | 9.25E-06 | 1.34E-04 | 1.01E-04 | 1.01E-04 | 5.58E-05 | 5.03E-06 | 7.27E-05 | 4.52E-05 | 4.52E-05 | 2.24E-05 |
| 945 | 258586.93 | 4084612.99 | 6.16E-05 | 8.91E-04 | 6.57E-04 | 6.57E-04 | 3.66E-04 | 9.35E-06 | 1.36E-04 | 1.03E-04 | 1.03E-04 | 5.64E-05 | 5.08E-06 | 7.35E-05 | 4.56E-05 | 4.56E-05 | 2.26E-05 |
| 946 | 258609.17 | 4084621.22 | 6.18E-06 | 8.94E-04 | 6.59E-04 | 6.59E-04 | 3.67E-04 | 9.38E-06 | 1.36E-04 | 1.03E-04 | 1.03E-04 | 5.65E-05 | 5.09E-06 | 7.37E-05 | 4.58E-05 | 4.58E-05 | 2.26E-05 |
| 947 | 258641.19 | 4084651.07 | 6.41E-05 | 9.27E-04 | 6.83E-04 | 6.83E-04 | 3.81E-04 | 9.72E-06 | 1.41E-04 | 1.07E-04 | 1.07E-04 | 5.86E-05 | 5.28E-06 | 7.64E-05 | 4.74E-05 | 4.74E-05 | 2.35E-05 |
| 948 | 258650.97 | 4084672.68 | 6.62E-06 | 9.57E-04 | 7.06E-04 | 7.06E-04 | 3.93E-04 | 1.00E-05 | 1.46E-04 | 1.10E-04 | 1.10E-04 | 6.06E-05 | 5.46E-06 | 7.89E-05 | 4.90E-05 | 4.90E-05 | 2.43E-05 |
| 949 | 258660.74 | 4084694.29 | 6.76E-05 | 9.77E-04 | 7.20E-04 | 7.20E-04 | 4.02E-04 | 1.03E-05 | 1.49E-04 | 1.12E-04 | 1.12E-04 | 6.18E-05 | 5.57E-06 | 8.05E-06 | 5.00E-05 | 5.00E-05 | 2.48E-05 |
| 950 | 258670.52 | 4084715.9 | 6.81E-05 | 9.85E-04 | 7.26E-04 | 7.26E-04 | 4.05E-04 | 1.03E-05 | 1.50E-04 | 1.13E-04 | 1.13E-04 | 6.23E-05 | 5.61E-06 | 8.12E-05 | 5.04E-05 | 5.04E-05 | 2.50E-05 |
| 951 | 258680.3 | 4084737.51 | 6.79E-05 | 9.82E-04 | 7.24E-04 | 7.24E-04 | 4.04E-04 | 1.03E-05 | 1.50E-04 | 1.13E-04 | 1.13E-04 | 6.21E-05 | 5.60E-06 | 8.10E-05 | 5.03E-05 | 5.03E-05 | 2.49E-05 |
| 952 | 258690.07 | 4084759.12 | 6.68E-06 | 9.66E-04 | 7.12E-04 | 7.12E-04 | 3.97E-04 | 1.01E-05 | 1.47E-04 | 1.11E-04 | 1.11E-04 | 6.11E-05 | 5.51E-06 | 7.96E-05 | 4.95E-05 | 4.95E-05 | 2.45E-05 |
| 953 | 258699.85 | 4084780.73 | 6.48E-05 | 9.37E-04 | 6.91E-04 | 6.91E-04 | 3.85E-04 | 9.83E-06 | 1.43E-04 | 1.08E-04 | 1.08E-04 | 5.93E-05 | 5.34E-06 | 7.72E-05 | 4.80E-05 | 4.80E-05 | 2.38E-05 |
| 954 | 258709.63 | 4084802.34 | 6.20E-05 | 8.97E-04 | 6.61E-04 | 6.61E-04 | 3.69E-04 | 9.41E-06 | 1.37E-04 | 1.03E-04 | 1.03E-04 | 5.67E-05 | 5.11E-06 | 7.39E-05 | 4.59E-05 | 4.59E-05 | 2.27E-05 |
| 955 | 258719.4 | 4084823.95 | 5.86E-06 | 8.47E-04 | 6.25E-04 | 6.25E-04 | 3.48E-04 | 8.89E-06 | 1.29E-04 | 9.75E-05 | 9.75E-05 | 5.36E-05 | 4.83E-06 | 6.99E-06 | 4.34E-06 | 4.34E-05 | 2.15E-05 |
| 956 | 258729.18 | 4084845.56 | 5.47E-05 | 7.92E-04 | 5.83E-04 | 5.83E-04 | 3.25E-04 | 8.31E-06 | 1.21E-04 | 9.11E-05 | 9.11E-05 | 5.01E-05 | 4.51E-06 | 6.52E-05 | 4.05E-06 | 4.05E-05 | 2.01E-05 |
| 957 | 258738.96 | 4084867.17 | 5.06E-05 | 7.32E-04 | 5.40E-04 | 5.40E-04 | 3.01E-04 | 7.68E-06 | 1.12E-04 | 8.43E-05 | 8.43E-05 | 4.63E-05 | 4.17E-06 | 6.03E-05 | 3.75E-05 | 3.75E-05 | 1.86E-05 |
| 958 | 258748.73 | 4084888.78 | 4.65E-06 | 6.72E-04 | 4.95E-04 | 4.95E-04 | 2.76E-04 | 7.05E-06 | 1.02E-04 | 7.73E-05 | 7.73E-05 | 4.25E-05 | 3.83E-06 | 5.54E-05 | 3.44E-05 | 3.44E-05 | 1.70E-05 |
| 959 | 258342.25 | 4084522.4 | 4.12E-05 | 5.97E-04 | 4.40E-04 | 4.40E-04 | 2.45E-04 | 6.26E-06 | 9.09E-05 | 6.86E-05 | 6.86E-05 | 3.77E-05 | 3.40E-06 | 4.92E-05 | 3.05E-05 | 3.05E-05 | 1.51E-05 |
| 960 | 258317.92 | 4084523.4 | 4.04E-05 | 5.84E-04 | 4.31E-04 | 4.31E-04 | 2.40E-04 | 6.13E-06 | 8.90E-05 | 6.73E-05 | 6.73E-05 | 3.70E-05 | 3.33E-06 | 4.82E-05 | 2.99E-05 | 2.99E-05 | 1.48E-05 |
| 961 | 258293.59 | 4084524.4 | 3.95E-06 | 5.71E-04 | 4.21E-04 | 4.21E-04 | 2.35E-04 | 5.99E-06 | 8.70E-05 | 6.57E-05 | 6.57E-05 | 3.61E-05 | 3.25E-06 | 4.71E-05 | 2.92E-05 | 2.92E-05 | 1.45E-05 |
| 962 | 258269.25 | 4084525.4 | 3.85E-05 | 5.56E-04 | 4.10E-04 | 4.10E-04 | 2.29E-04 | 5.84E-06 | 8.47E-05 | 6.40E-05 | 6.40E-05 | 3.52E-05 | 3.17E-06 | 4.58E-05 | 2.85E-05 | 2.85E-05 | 1.41E-05 |
| 963 | 258244.92 | 4084526.4 | 3.73E-05 | 5.40E-04 | 3.98E-04 | 3.98E-04 | 2.22E-04 | 5.67E-06 | 8.23E-05 | 6.22E-05 | 6.22E-05 | 3.42E-05 | 3.08E-06 | 4.45E-06 | 2.77E-06 | 2.77E-05 | 1.37E-05 |
| 964 | 258220.59 | 4084527.4 | 3.61E-06 | 5.23E-04 | 3.85E-04 | 3.85E-04 | 2.15E-04 | 5.49E-06 | 7.97E-05 | 6.02E-05 | 6.02E-05 | 3.31E-05 | 2.98E-06 | 4.31E-05 | 2.68E-05 | 2.68E-05 | 1.33E-05 |
| 965 | 258196.26 | 4084528.4 | 3.49E-05 | 5.04E-04 | 3.72E-04 | 3.72E-04 | 2.07E-04 | 5.29E-06 | 7.69E-05 | 5.81E-05 | 5.81E-05 | 3.19E-05 | 2.88E-06 | 4.16E-05 | 2.58E-05 | 2.58E-05 | 1.28E-05 |
| 966 | 258171.93 | 4084529.4 | 3.35E-05 | 4.85E-04 | 3.58E-04 | 3.58E-04 | 1.99E-04 | 5.09E-06 | 7.39E-05 | 5.58E-05 | 5.58E-05 | 3.07E-05 | 2.77E-06 | 4.00E-05 | 2.48E-05 | 2.48E-05 | 1.23E-05 |
| 967 | 258147.59 | 4084530.4 | 3.22E-05 | 4.65E-04 | 3.43E-04 | 3.43E-04 | 1.91E-04 | 4.88E-06 | 7.08E-05 | 5.35E-05 | 5.35E-05 | 2.94E-05 | 2.65E-06 | 3.83E-05 | 2.38E-05 | 2.38E-05 | 1.18E-05 |
| 968 | 258123.26 | 4084531.4 | 3.07E-05 | 4.44E-04 | 3.27E-04 | 3.27E-04 | 1.83E-04 | 4.66E-06 | 6.77E-05 | 5.11E-05 | 5.11E-05 | 2.81E-05 | 2.53E-06 | 3.66E-05 | 2.27E-06 | 2.27E-06 | 1.13E-05 |
| 969 | 258098.93 | 4084532.4 | 2.92E-06 | 4.23E-04 | 3.12E-04 | 3.12E-04 | 1.74E-04 | 4.44E-06 | 6.44E-05 | 4.87E-05 | 4.87E-05 | 2.68E-05 | 2.41E-06 | 3.49E-06 | 2.17E-06 | 2.17E-05 | 1.07E-05 |
| 970 | 258074.6 | 4084533.4 | 2.77E-05 | 4.01E-04 | 2.96E-04 | 2.96E-04 | 1.65E-04 | 4.21E-06 | 6.11E-05 | 4.61E-05 | 4.61E-05 | 2.54E-05 | 2.29E-06 | 3.31E-05 | 2.05E-05 | 2.05E-05 | 1.02E-05 |
| 971 | 258050.27 | 4084534.4 | 2.62E-05 | 3.79E-04 | 2.79E-04 | 2.79E-04 | 1.56E-04 | 3.98E-06 | 5.77E-05 | 4.36E-05 | 4.36E-05 | 2.40E-05 | 2.16E-06 | 3.12E-05 | 1.94E-06 | 1.94E-05 | 9.60E-06 |
| 972 | 258025.94 | 4084535.4 | 2.47E-05 | 3.57E-04 | 2.63E-04 | 2.63E-04 | 1.47E-04 | 3.74E-06 | 5.43E-05 | 4.10E-05 | 4.10E-05 | 2.26E-05 | 2.03E-06 | 2.94E-05 | 1.83E-05 | 1.83E-05 | 9.04E-06 |
| 973 | 258001.6 | 4084536.4 | 2.31E-05 | 3.35E-04 | 2.47E-04 | 2.47E-04 | 1.37E-04 | 3.51E-06 | 5.10E-05 | 3.85E-05 | 3.85E-05 | 2.12E-05 | 1.91E-06 | 2.76E-05 | 1.71E-06 | 1.71E-05 | 8.48E-06 |
| 974 | 257977.27 | 4084537.4 | 2.16E-05 | 3.13E-04 | 2.30E-04 | 2.30E-04 | 1.28E-04 | 3.28E-06 | 4.76E-05 | 3.60E-05 | 3.60E-05 | 1.98E-05 | 1.78E-06 | 2.58E-05 | 1.60E-05 | 1.60E-05 | 7.92E-06 |
| 975 | 257952.94 | 4084538.4 | 2.01E-05 | 2.91E-04 | 2.15E-04 | 2.15E-04 | 1.20E-04 | 3.06E-06 | 4.44E-05 | 3.35E-05 | 3.35E-05 | 1.84E-05 | 1.66E-06 | 2.40E-05 | 1.49E-05 | 1.49E-05 | 7.38E-06 |
| 976 | 257928.61 | 4084539.4 | 1.87E-05 | 2.71E-04 | 2.00E-04 | 2.00E-04 | 1.11E-04 | 2.84E-06 | 4.12E-05 | 3.12E-05 | 3.12E-05 | 1.71E-05 | 1.54E-06 | 2.23E-05 | 1.39E-05 | 1.39E-05 | 6.86E-06 |
| 977 | 257904.28 | 4084540.4 | 1.74E-05 | 2.51E-04 | 1.85E-04 | 1.85E-04 | 1.03E-04 | 2.84E-06 | 3.83E-06 | 2.89E-05 | 2.89E-05 | 1.59E-05 | 1.43E-06 | 2.07E-05 | 1.29E-05 | 1.29E-05 | 6.37E-06 |
| 978 | 257879.94 | 4084541.4 | 1.61E-05 | 2.33E-04 | 1.72E-04 | 1.72E-04 | 9.56E-06 | 2.44E-06 | 3.54E-06 | 2.68E-05 | 2.68E-05 | 1.47E-05 | 1.33E-06 | 1.92E-05 | 1.19E-05 | 1.19E-05 | 5.90E-06 |
| 979 | 257855.61 | 4084542.4 | 1.49E-05 | 2.15E-04 | 1.59E-04 | 1.59E-04 | 8.86E-05 | 2.26E-06 | 3.28E-06 | 2.48E-05 | 2.48E-05 | 1.36E-05 | 1.23E-06 | 1.78E-05 | 1.10E-06 | 1.10E-06 | 5.46E-06 |
| 980 | 257831.28 | 4084543.4 | 1.38E-05 | 2.00E-04 | 1.47E-04 | 1.47E-04 | 8.20E-05 | 2.10E-06 | 3.04E-05 | 2.30E-05 | 2.30E-05 | 1.26E-05 | 1.14E-06 | 1.65E-05 | 1.02E-05 | 1.02E-05 | 5.06E-06 |
| 981 | 257806.95 | 4084544.4 | 1.28E-05 | 1.85E-04 | 1.36E-04 | 1.36E-04 | 7.61E-05 | 1.94E-06 | 2.82E-05 | 2.13E-05 | 2.13E-05 | 1.17E-05 | 1.06E-06 | 1.53E-05 | 9.48E-06 | 9.48E-06 | 4.69E-06 |
| 982 | 257782.62 | 4084545.4 | 1.19E-05 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.07E-06 | 1.81E-06 | 2.62E-05 | 1.98E-05 | 1.98E-05 | 1.09E-05 | 9.80E-07 | 1.42E-05 | 8.81E-06 | 8.81E-06 | 4.36E-06 |
| 983 | 257758.29 | 4084546.4 | 1.11E-06 | 1.60E-04 | 1.18E-04 | 1.18E-04 | 6.58E-05 | 1.68E-06 | 2.44E-05 | 1.84E-05 | 1.84E-05 | 1.01E-05 | 9.13E-07 | 1.32E-05 | 8.20E-06 | 8.20E-06 | 4.06E-06 |
| 984 | 257733.95 | 4084547.41 | 1.03E-05 | 1.50E-04 | 1.10E-04 | 1.10E-04 | 6.14E-05 | 1.57E-06 | 2.28E-06 | 1.72E-05 | 1.72E-05 | 9.46E-06 | 8.52E-07 | 1.23E-05 | 7.66E-06 | 7.66E-06 | 3.79E-06 |
| 985 | 257709.62 | 4084548.41 | 9.68E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.75E-05 | 1.47E-06 | 2.13E-05 | 1.61E-05 | 1.61E-05 | 8.86E-06 | 7.98E-07 | 1.15E-05 | 7.17E-06 | 7.17E-06 | 3.55E-06 |
| 986 | 257685.29 | 4084549.41 | 9.09E-06 | 1.31E-04 | 9.69E-05 | 9.69E-05 | 5.40E-05 | 1.38E-06 | 2.00E-05 | 1.51E-05 | 1.51E-05 | 8.32E-06 | 7.49E-07 | 1.08E-05 | 6.73E-06 | 6.73E-06 | 3.33E-06 |
| 987 | 257660.96 | 4084550.41 | 8.56E-06 | 1.24E-04 | 9.12E-05 | 9.12E-05 | 5.09E-05 | 1.30E-06 | 1.89E-05 | 1.42E-05 | 1.42E-05 | 7.83E-06 | 7.05E-07 | 1.02E-05 | 6.34E-06 | 6.34E-06 | 3.14E-06 |
| 988 | 257636.63 | 4084551.41 | 8.08E-06 | 1.17E-04 | 8.62E-05 | 8.62E-05 | 4.80E-05 | 1.23E-06 | 1.78E-05 | 1.35E-05 | 1.35E-05 | 7.40E-06 | 6.66E-07 | 9.64E-06 | 5.99E-06 | 5.99E-06 | 2.96E-06 |
| 989 | 257612.29 | 4084552.41 | 7.66E-06 | 1.11E-04 | 8.16E-05 | 8.18E-05 | 4.55E-06 | 1.16E-06 | 1.69E-06 | 1.27E-05 | 1.27E-05 | 7.01E-06 | 6.31E-07 | 9.13E-06 | 5.67E-06 | 5.67E-06 | 2.81E-06 |
| 990 | 257587.96 | 4084553.41 | 7.27E-06 | 1.05E-04 | 7.75E-05 | 7.75E-05 | 4.32E-06 | 1.10E-06 | 1.60E-06 | 1.21E-05 | 1.21E-05 | 6.65E-06 | 5.99E-07 | 8.66E-06 | 5.38E-06 | 5.38E-06 | 2.66E-06 |
| 991 | 257563.63 | 4084554.41 | 6.91E-06 | 1.00E-04 | 7.37E-05 | 7.37E-05 | 4.11E-06 | 1.05E-06 | 1.52E-05 | 1.15E-05 | 1.15E-05 | 6.32E-06 | 5.70E-07 | 8.24E-06 | 5.12E-06 | 5.12E-06 | 2.53E-06 |
| 992 | 257539.3 | 4084555.41 | 6.58E-06 | 9.52E-05 | 7.02E-05 | 7.02E-05 | 3.91E-05 | 9.99E-07 | 1.45E-05 | 1.10E-05 | 1.10E-05 | 6.02E-06 | 5.43E-07 | 7.85E-06 | 4.88E-06 | 4.88E-06 | 2.41E-06 |
| 993 | 258360.73 | 4084430.85 | 2.83E-05 | 4.10E-04 | 3.02E-04 | 3.02E-04 | 1.68E-04 | 4.30E-06 | 6.24E-05 | 4.71E-05 | 4.71E-05 | 2.59E-05 | 2.33E-06 | 3.38E-05 | 2.10E-05 | 2.10E-05 | 1.04E-05 |
| 994 | 258383.32 | 4084439.21 | 3.01E-05 | 4.36E-04 | 3.21E-04 | 3.21E-04 | 1.79E-04 | 4.57E-06 | 6.64E-06 | 5.01E-05 | 5.01E-06 | 2.76E-05 | 2.48E-06 | 3.59E-05 | 2.23E-05 | 2.23E-05 | 1.10E-05 |
| 995 | 258405.91 | 4084447.57 | 3.19E-05 | 4.61E-04 | 3.40E-04 | 3.40E-04 | 1.90E-04 | 4.84E-06 | 7.03E-05 | 5.31E-05 | 5.31E-05 | 2.92E-05 | 2.63E-06 | 3.80E-05 | 2.36E-05 | 2.36E-05 | 1.17E-06 |
| 996 | 258428.51 | 4084455.94 | 3.37E-05 | 4.87E-04 | 3.59E-04 | 3.59E-04 | 2.00E-04 | 5.11E-06 | 7.42E-06 | 5.61E-05 | 5.61E-05 | 3.08E-05 | 2.78E-06 | 4.02E-05 | 2.49E-05 | 2.49E-05 | 1.23E-05 |
| 997 | 258451.1 | 4084464.3 | 3.54E-06 | 5.12E-04 | 3.78E-04 | 3.78E-04 | 2.10E-04 | 5.37E-06 | 7.80E-05 | 5.89E-05 | 5.89E-05 | 3.24E-05 | 2.92E-06 | 4.22E-05 | 2.62E-05 | 2.62E-05 | 1.30E-05 |
| 998 | 258473.69 | 4084472.67 | 3.71E-05 | 5.37E-04 | 3.96E-04 | 3.96E-04 | 2.21E-04 | 5.63E-06 | 8.18E-05 | 6.18E-06 | 6.18E-05 | 3.40E-05 | 3.06E-06 | 4.43E-05 | 2.75E-05 | 2.75E-05 | 1.36E-05 |
| 999 | 258496.28 | 4084481.03 | 3.88E-06 | 5.61E-04 | 4.13E-04 | 4.13E-04 | 2.30E-04 | 5.88E-06 | 8.54E-05 | 6.45E-06 | 6.45E-05 | 3.55E-05 | 3.20E-06 | 4.62E-05 | 2.87E-05 | 2.87E-05 | 1.42E-05 |
| 1000 | 258518.87 | 4084489.39 | 4.03E-06 | 5.83E-04 | 4.30E-04 | 4.30E-04 | 2.40E-04 | 6.12E-06 | 8.89E-06 | 6.71E-06 | 6.71E-05 | 3.69E-05 | 3.33E-06 | 4.81E-05 | 2.99E-05 | 2.99E-05 | 1.48E-05 |
| 1001 | 258541.46 | 4084497.76 | 4.18E-06 | 6.05E-04 | 4.46E-04 | 4.46E-04 | 2.48E-04 | 6.34E-06 | 9.21E-05 | 6.96E-05 | 6.96E-05 | 3.83E-05 | 3.45E-06 | 4.98E-05 | 3.10E-05 | 3.10E-05 | 1.53E-05 |
| 1002 | 258564.05 | 4084506.12 | 4.31E-05 | 6.24E-04 | 4.60E-04 | 4.60E-04 | 2.56E-04 | 6.55E-06 | 9.50E-05 | 7.18E-05 | 7.18E-06 | 3.95E-05 | 3.56E-06 | 5.14E-05 | 3.19E-05 | 3.19E-05 | 1.58E-05 |
| 1003 | 258586.64 | 4084514.49 | 4.43E-05 | 6.41E-04 | 4.72E-04 | 4.72E-04 | 2.63E-04 | 6.72E-06 | 9.76E-05 | 7.37E-05 | 7.37E-06 | 4.05E-05 | 3.65E-06 | 5.28E-05 | 3.28E-05 | 3.28E-05 | 1.62E-05 |
| 1004 | 258609.23 | 4084522.85 | 4.52E-05 | 6.54E-04 | 4.82E-04 | 4.82E-04 | 2.69E-04 | 6.87E-06 | 9.97E-05 | 7.53E-05 | 7.53E-05 | 4.14E-05 | 3.73E-06 | 5.39E-05 | 3.35E-05 | 3.35E-05 | 1.66E-05 |
| 1005 | 258631.82 | 4084531.21 | 4.60E-05 | 6.65E-04 | 4.90E-04 | 4.90E-04 | 2.73E-04 | 6.98E-06 | 1.01E-04 | 7.65E-06 | 7.65E-06 | 4.21E-05 | 3.79E-06 | 5.48E-05 | 3.40E-05 | 3.40E-05 | 1.68E-05 |
| 1006 | 258654.41 | 4084539.58 | 4.64E-05 | 6.71E-04 | 4.95E-04 | 4.95E-04 | 2.78E-04 | 7.04E-06 | 1.02E-04 | 7.73E-05 | 7.73E-05 | 4.25E-05 | 3.83E-06 | 5.53E-05 | 3.44E-05 | 3.44E-05 | 1.70E-05 |
| 1007 | 258677.01 | 4084547.94 | 4.66E-05 | 6.73E-04 | 4.96E-04 | 4.96E-04 | 2.77E-04 | 7.07E-06 | 1.03E-04 | 7.75E-05 | 7.75E-05 | 4.26E-05 | 3.84E-06 | 5.55E-05 | 3.45E-05 | 3.45E-05 | 1.71E-05 |
| 1008 | 258709.53 | 4084578.25 | 4.80E-06 | 6.95E-04 | 5.12E-04 | 5.12E-04 | 2.85E-04 | 7.29E-06 | 1.06E-04 | 7.99E-05 | 7.99E-05 | 4.40E-05 | 3.96E-06 | 5.73E-05 | 3.56E-05 | 3.56E-05 | 1.76E-05 |
| 1009 | 258719.46 | 4084600.2 | 4.95E-05 | 7.16E-04 | 5.28E-04 | 5.28E-04 | 2.94E-04 | 7.51E-06 | 1.09E-04 | 8.24E-05 | 8.24E-05 | 4.53E-05 | 4.08E-06 | 5.90E-05 | 3.67E-05 | 3.67E-05 | 1.81E-05 |
| 1010 | 258729.38 | 4084622.15 | 5.06E-06 | 7.32E-04 | 5.39E-04 | 5.39E-04 | 3.01E-04 | 7.68E-06 | 1.12E-04 | 8.42E-05 | 8.42E-05 | 4.63E-06 | 4.17E-06 | 6.03E-05 | 3.75E-05 | 3.75E-05 | 1.86E-05 |
| 1011 | 258739.31 | 4084644.1 | 5.13E-05 | 7.42E-04 | 5.47E-04 | 5.47E-04 | 3.05E-04 | 7.78E-06 | 1.13E-04 | 8.53E-05 | 8.53E-05 | 4.69E-06 | 4.23E-06 | 6.11E-05 | 3.80E-05 | 3.80E-05 | 1.88E-05 |
| 1012 | 258749.24 | 4084666.05 | 5.14E-05 | 7.44E-04 | 5.48E-04 | 5.48E-04 | 3.06E-04 | 7.81E-06 | 1.13E-04 | 8.56E-05 | 8.56E-06 | 4.71E-05 | 4.24E-06 | 6.13E-05 | 3.81E-05 | 3.81E-05 | 1.89E-05 |
| 1013 | 258759.17 | 4084687.99 | 5.11E-05 | 7.39E-04 | 5.45E-04 | 5.45E-04 | 3.04E-04 | 7.75E-06 | 1.13E-04 | 8.50E-05 | 8.50E-05 | 4.68E-06 | 4.21E-06 | 6.09E-05 | 3.78E-05 | 3.78E-05 | 1.87E-05 |
| 1014 | 258769.1 | 4084709.94 | 5.02E-05 | 7.26E-04 | 5.35E-04 | 5.35E-04 | 2.98E-04 | 7.62E-06 | 1.11E-04 | 8.36E-06 | 8.36E-05 | 4.59E-05 | 4.14E-06 | 5.99E-05 | 3.72E-05 | 3.72E-05 | 1.84E-05 |
| 1015 | 258779.03 | 4084731.89 | 4.88E-05 | 7.06E-04 | 5.20E-04 | 5.20E-04 | 2.90E-04 | 7.41E-06 | 1.08E-04 | 8.12E-06 | 8.12E-05 | 4.47E-05 | 4.02E-06 | 5.82E-05 | 3.61E-05 | 3.61E-05 | 1.79E-05 |
| 1016 | 258788.96 | 4084753.84 | 4.70E-05 | 6.79E-04 | 5.01E-04 | 5.01E-04 | 2.79E-04 | 7.13E-06 | 1.03E-04 | 7.81E-05 | 7.81E-06 | 4.30E-05 | 3.87E-06 | 5.60E-05 | 3.48E-05 | 3.48E-05 | 1.72E-05 |
| 1017 | 258798.89 | 4084775.79 | 4.47E-06 | 6.47E-04 | 4.77E-04 | 4.77E-04 | 2.66E-04 | 6.79E-06 | 9.85E-05 | 7.44E-05 | 7.44E-05 | 4.09E-05 | 3.69E-06 | 5.33E-05 | 3.31E-05 | 3.31E-05 | 1.64E-05 |
| 1018 | 258808.82 | 4084797.73 | 4.22E-06 | 6.11E-04 | 4.50E-04 | 4.50E-04 | 2.51E-04 | 6.41E-06 | 9.30E-05 | 7.03E-06 | 7.03E-06 | 3.86E-05 | 3.48E-06 | 5.03E-05 | 3.13E-05 | 3.13E-05 | 1.55E-05 |
| 1019 | 258818.75 | 4084819.68 | 3.95E-06 | 5.72E-04 | 4.21E-04 | 4.21E-04 | 2.35E-04 | 6.00E-06 | 8.71E-05 | 6.58E-05 | 6.58E-05 | 3.62E-05 | 3.26E-06 | 4.71E-05 | 2.93E-05 | 2.93E-05 | 1.45E-05 |
| 1020 | 258828.68 | 4084841.63 | 3.68E-06 | 5.32E-04 | 3.92E-04 | 3.92E-04 | 2.19E-04 | 5.58E-06 | 8.10E-05 | 6.12E-06 | 6.12E-06 | 3.36E-06 | 3.03E-06 | 4.38E-05 | 2.72E-05 | 2.72E-05 | 1.35E-05 |
| 1021 | 258838.61 | 4084863.58 | 3.40E-06 | 4.92E-04 | 3.63E-04 | 3.63E-04 | 2.02E-04 | 5.17E-06 | 7.50E-05 | 5.67E-06 | 5.67E-05 | 3.11E-05 | 2.81E-06 | 4.06E-05 | 2.52E-05 | 2.52E-05 | 1.25E-05 |
| 1022 | 258848.54 | 4084885.53 | 3.14E-06 | 4.54E-04 | 3.35E-04 | 3.35E-04 | 1.87E-04 | 4.76E-06 | 6.92E-05 | 5.23E-06 | 5.23E-05 | 2.87E-06 | 2.59E-06 | 3.74E-05 | 2.32E-05 | 2.32E-05 | 1.15E-05 |
| 1023 | 258338.14 | 4084422.48 | 2.66E-05 | 3.84E-04 | 2.83E-04 | 2.83E-04 | 1.58E-04 | 4.03E-06 | 5.85E-05 | 4.42E-05 | 4.42E-05 | 2.43E-06 | 2.19E-06 | 3.17E-05 | 1.97E-05 | 1.97E-05 | 9.73E-06 |
| 1024 | 258313.81 | 4084423.48 | 2.58E-05 | 3.73E-04 | 2.75E-04 | 2.75E-04 | 1.53E-04 | 3.91E-06 | 5.68E-05 | 4.29E-06 | 4.29E-05 | 2.36E-05 | 2.12E-06 | 3.07E-05 | 1.91E-05 | 1.91E-05 | 9.45E-06 |
| 1025 | 258289.48 | 4084424.48 | 2.49E-05 | 3.61E-04 | 2.66E-04 | 2.66E-04 | 1.48E-04 | 3.78E-06 | 5.49E-06 | 4.15E-05 | 4.15E-05 | 2.28E-05 | 2.06E-06 | 2.97E-05 | 1.85E-05 | 1.85E-05 | 9.14E-06 |
| 1026 | 258265.15 | 4084425.48 | 2.41E-06 | 3.48E-04 | 2.56E-04 | 2.56E-04 | 1.43E-04 | 3.65E-06 | 5.30E-05 | 4.00E-05 | 4.00E-05 | 2.20E-05 | 1.98E-06 | 2.87E-05 | 1.78E-05 | 1.78E-05 | 8.82E-06 |
| 1027 | 258240.81 | 4084426.48 | 2.31E-05 | 3.35E-04 | 2.47E-04 | 2.47E-04 | 1.38E-04 | 3.51E-06 | 5.10E-05 | 3.85E-05 | 3.85E-05 | 2.12E-05 | 1.91E-06 | 2.76E-05 | 1.71E-05 | 1.71E-05 | 8.48E-06 |
| 1028 | 258216.48 | 4084427.48 | 2.22E-05 | 3.21E-04 | 2.37E-04 | 2.37E-04 | 1.32E-04 | 3.37E-06 | 4.89E-05 | 3.69E-06 | 3.69E-06 | 2.03E-05 | 1.83E-06 | 2.65E-05 | 1.64E-05 | 1.64E-05 | 8.14E-06 |
| 1029 | 258192.15 | 4084428.48 | 2.12E-05 | 3.07E-04 | 2.26E-04 | 2.26E-04 | 1.26E-04 | 3.22E-06 | 4.68E-05 | 3.53E-06 | 3.53E-06 | 1.94E-05 | 1.75E-06 | 2.53E-06 | 1.57E-05 | 1.57E-05 | 7.78E-06 |
| 1030 | 258167.82 | 4084429.48 | 2.02E-06 | 2.93E-04 | 2.16E-04 | 2.16E-04 | 1.20E-04 | 3.07E-06 | 4.46E-05 | 3.37E-05 | 3.37E-05 | 1.85E-05 | 1.67E-06 | 2.41E-05 | 1.50E-05 | 1.60E-05 | 7.42E-06 |
| 1031 | 258143.49 | 4084430.48 | 1.92E-06 | 2.78E-04 | 2.05E-04 | 2.05E-04 | 1.14E-04 | 2.92E-06 | 4.24E-05 | 3.20E-06 | 3.20E-06 | 1.76E-05 | 1.59E-06 | 2.29E-05 | 1.42E-05 | 1.42E-05 | 7.05E-06 |
| 1032 | 258119.16 | 4084431.48 | 1.82E-06 | 2.64E-04 | 1.94E-04 | 1.94E-04 | 1.08E-04 | 2.77E-06 | 4.02E-05 | 3.03E-06 | 3.03E-05 | 1.67E-05 | 1.50E-06 | 2.17E-05 | 1.35E-05 | 1.35E-05 | 6.68E-06 |
| 1033 | 258094.82 | 4084432.49 | 1.72E-05 | 2.49E-04 | 1.84E-04 | 1.84E-04 | 1.02E-04 | 2.62E-06 | 3.80E-06 | 2.87E-05 | 2.87E-05 | 1.58E-05 | 1.42E-06 | 2.06E-05 | 1.28E-05 | 1.28E-05 | 6.32E-06 |
| 1034 | 258070.49 | 4084433.49 | 1.63E-05 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.67E-06 | 2.47E-06 | 3.59E-05 | 2.71E-05 | 2.71E-05 | 1.49E-05 | 1.34E-06 | 1.94E-05 | 1.21E-05 | 1.21E-05 | 5.97E-06 |
| 1035 | 258046.16 | 4084434.49 | 1.53E-06 | 2.22E-04 | 1.63E-04 | 1.63E-04 | 9.11E-05 | 2.33E-06 | 3.38E-05 | 2.55E-05 | 2.55E-05 | 1.40E-06 | 1.26E-06 | 1.83E-05 | 1.14E-05 | 1.14E-05 | 5.62E-06 |
| 1036 | 258021.83 | 4084435.49 | 1.44E-06 | 2.08E-04 | 1.54E-04 | 1.54E-04 | 8.57E-05 | 2.19E-06 | 3.18E-05 | 2.40E-06 | 2.40E-05 | 1.32E-05 | 1.19E-06 | 1.72E-05 | 1.07E-05 | 1.07E-05 | 5.28E-06 |
| 1037 | 257997.5 | 4084436.49 | 1.35E-05 | 1.96E-04 | 1.44E-04 | 1.44E-04 | 8.05E-05 | 2.05E-06 | 2.98E-06 | 2.25E-05 | 2.25E-05 | 1.24E-05 | 1.12E-06 | 1.61E-05 | 1.00E-05 | 1.00E-05 | 4.96E-06 |
| 1038 | 257973.16 | 4084437.49 | 1.27E-05 | 1.84E-04 | 1.35E-04 | 1.35E-04 | 7.55E-05 | 1.93E-06 | 2.80E-05 | 2.11E-05 | 2.11E-05 | 1.16E-05 | 1.05E-06 | 1.51E-05 | 9.41E-06 | 9.41E-06 | 4.66E-06 |
| 1039 | 257948.83 | 4084438.49 | 1.19E-05 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.08E-06 | 1.81E-06 | 2.63E-05 | 1.98E-06 | 1.98E-06 | 1.09E-05 | 9.82E-07 | 1.42E-05 | 8.82E-06 | 8.82E-06 | 4.37E-06 |
| 1040 | 257924.5 | 4084439.49 | 1.12E-05 | 1.62E-04 | 1.19E-04 | 1.19E-04 | 6.64E-06 | 1.70E-06 | 2.46E-05 | 1.86E-05 | 1.86E-05 | 1.02E-05 | 9.21E-07 | 1.33E-05 | 8.28E-06 | 8.28E-06 | 4.10E-06 |
| 1041 | 257900.17 | 4084440.49 | 1.05E-05 | 1.52E-04 | 1.12E-04 | 1.12E-04 | 6.23E-05 | 1.59E-06 | 2.31E-05 | 1.74E-05 | 1.74E-05 | 9.59E-06 | 8.64E-07 | 1.25E-05 | 7.76E-06 | 7.76E-06 | 3.84E-06 |
| 1042 | 257875.84 | 4084441.49 | 9.84E-06 | 1.42E-04 | 1.05E-04 | 1.05E-04 | 5.85E-06 | 1.49E-06 | 2.17E-05 | 1.64E-05 | 1.64E-05 | 9.00E-06 | 8.11E-07 | 1.17E-05 | 7.28E-06 | 7.28E-06 | 3.61E-06 |
| 1043 | 257851.51 | 4084442.49 | 9.24E-06 | 1.34E-04 | 9.85E-05 | 9.85E-05 | 5.49E-05 | 1.40E-06 | 2.04E-05 | 1

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 837 | 258416.18 | 4084697.36 | 9.66E-05 | 1.40E-03 | 1.03E-03 | 1.03E-03 | 5.74E-04 | 1.47E-05 | 2.13E-04 | 1.61E-04 | 1.61E-04 | 8.84E-05 | 7.96E-06 | 1.15E-04 | 7.15E-05 | 7.15E-05 | 3.54E-05 |
| 838 | 258438.77 | 4084705.73 | 1.00E-04 | 1.45E-03 | 1.07E-03 | 1.07E-03 | 5.94E-04 | 1.52E-05 | 2.20E-04 | 1.66E-04 | 1.66E-04 | 9.15E-05 | 8.24E-06 | 1.19E-04 | 7.41E-05 | 7.41E-05 | 3.67E-05 |
| 839 | 258461.37 | 4084714.09 | 1.03E-04 | 1.49E-03 | 1.10E-03 | 1.10E-03 | 6.11E-04 | 1.56E-05 | 2.26E-04 | 1.71E-04 | 1.71E-04 | 9.41E-05 | 8.47E-06 | 1.23E-04 | 7.61E-05 | 7.61E-05 | 3.77E-05 |
| 840 | 258483.96 | 4084722.46 | 1.05E-04 | 1.51E-03 | 1.12E-03 | 1.12E-03 | 6.22E-04 | 1.59E-05 | 2.31E-04 | 1.74E-04 | 1.74E-04 | 9.56E-05 | 8.63E-06 | 1.25E-04 | 7.75E-05 | 7.75E-05 | 3.84E-05 |
| 841 | 258506.55 | 4084730.82 | 1.05E-04 | 1.52E-03 | 1.12E-03 | 1.12E-03 | 6.26E-04 | 1.60E-05 | 2.32E-04 | 1.75E-04 | 1.75E-04 | 9.64E-05 | 8.68E-06 | 1.26E-04 | 7.80E-05 | 7.80E-05 | 3.86E-05 |
| 842 | 258539.07 | 4084761.13 | 1.11E-04 | 1.60E-03 | 1.18E-03 | 1.18E-03 | 6.57E-04 | 1.68E-05 | 2.44E-04 | 1.84E-04 | 1.84E-04 | 1.01E-04 | 9.11E-06 | 1.32E-04 | 8.18E-05 | 8.18E-05 | 4.05E-05 |
| 843 | 258549 | 4084783.08 | 1.15E-04 | 1.66E-03 | 1.22E-03 | 1.22E-03 | 6.82E-04 | 1.74E-05 | 2.53E-04 | 1.91E-04 | 1.91E-04 | 1.05E-04 | 9.45E-06 | 1.37E-04 | 8.49E-05 | 8.49E-05 | 4.20E-05 |
| 844 | 258558.93 | 4084805.03 | 1.17E-04 | 1.69E-03 | 1.24E-03 | 1.24E-03 | 6.93E-04 | 1.77E-05 | 2.57E-04 | 1.94E-04 | 1.94E-04 | 1.07E-04 | 9.62E-06 | 1.39E-04 | 8.64E-05 | 8.64E-05 | 4.28E-05 |
| 845 | 258568.86 | 4084826.98 | 1.16E-04 | 1.68E-03 | 1.24E-03 | 1.24E-03 | 6.91E-04 | 1.76E-05 | 2.56E-04 | 1.93E-04 | 1.93E-04 | 1.06E-04 | 9.58E-06 | 1.39E-04 | 8.61E-05 | 8.61E-05 | 4.26E-05 |
| 846 | 258578.79 | 4084848.92 | 1.13E-04 | 1.63E-03 | 1.20E-03 | 1.20E-03 | 6.71E-04 | 1.71E-05 | 2.49E-04 | 1.88E-04 | 1.88E-04 | 1.03E-04 | 9.31E-06 | 1.35E-04 | 8.36E-05 | 8.36E-05 | 4.14E-05 |
| 847 | 258588.71 | 4084870.87 | 1.07E-04 | 1.55E-03 | 1.14E-03 | 1.14E-03 | 6.37E-04 | 1.63E-05 | 2.36E-04 | 1.78E-04 | 1.78E-04 | 9.81E-05 | 8.83E-06 | 1.28E-04 | 7.94E-05 | 7.94E-05 | 3.93E-05 |
| 848 | 258598.64 | 4084692.82 | 9.95E-05 | 1.44E-03 | 1.06E-03 | 1.06E-03 | 5.91E-04 | 1.51E-05 | 2.19E-04 | 1.66E-04 | 1.66E-04 | 9.10E-05 | 8.20E-06 | 1.19E-04 | 7.37E-05 | 7.37E-05 | 3.65E-05 |
| 849 | 258348.41 | 4084672.27 | 8.44E-05 | 1.22E-03 | 9.00E-04 | 9.00E-04 | 5.02E-04 | 1.28E-05 | 1.86E-04 | 1.41E-04 | 1.41E-04 | 7.73E-05 | 6.96E-06 | 1.01E-04 | 6.25E-05 | 6.25E-05 | 3.10E-05 |
| 850 | 258324.08 | 4084673.27 | 8.41E-05 | 1.22E-03 | 8.96E-04 | 8.96E-04 | 5.00E-04 | 1.28E-05 | 1.85E-04 | 1.40E-04 | 1.40E-04 | 7.69E-05 | 6.93E-06 | 1.00E-04 | 6.23E-05 | 6.23E-05 | 3.08E-05 |
| 851 | 258299.75 | 4084674.27 | 8.35E-05 | 1.21E-03 | 8.90E-04 | 8.90E-04 | 4.96E-04 | 1.27E-05 | 1.84E-04 | 1.39E-04 | 1.39E-04 | 7.64E-05 | 6.88E-06 | 9.96E-05 | 6.18E-05 | 6.18E-05 | 3.06E-05 |
| 852 | 258275.42 | 4084675.27 | 8.27E-05 | 1.20E-03 | 8.82E-04 | 8.82E-04 | 4.92E-04 | 1.26E-05 | 1.82E-04 | 1.38E-04 | 1.38E-04 | 7.57E-05 | 6.82E-06 | 9.86E-05 | 6.13E-05 | 6.13E-05 | 3.03E-05 |
| 853 | 258251.08 | 4084676.27 | 8.17E-05 | 1.18E-03 | 8.71E-04 | 8.71E-04 | 4.86E-04 | 1.24E-05 | 1.80E-04 | 1.36E-04 | 1.36E-04 | 7.48E-05 | 6.74E-06 | 9.74E-05 | 6.05E-05 | 6.05E-05 | 3.00E-05 |
| 854 | 258226.75 | 4084677.27 | 8.05E-05 | 1.16E-03 | 8.58E-04 | 8.58E-04 | 4.79E-04 | 1.22E-05 | 1.77E-04 | 1.34E-04 | 1.34E-04 | 7.37E-05 | 6.64E-06 | 9.60E-05 | 5.96E-05 | 5.96E-05 | 2.95E-05 |
| 855 | 258202.42 | 4084678.27 | 7.92E-05 | 1.15E-03 | 8.44E-04 | 8.44E-04 | 4.71E-04 | 1.20E-05 | 1.74E-04 | 1.32E-04 | 1.32E-04 | 7.24E-05 | 6.53E-06 | 9.44E-05 | 5.86E-05 | 5.86E-05 | 2.90E-05 |
| 856 | 258178.09 | 4084679.27 | 7.76E-05 | 1.12E-03 | 8.28E-04 | 8.28E-04 | 4.61E-04 | 1.18E-05 | 1.71E-04 | 1.29E-04 | 1.29E-04 | 7.10E-05 | 6.40E-06 | 9.25E-05 | 5.75E-05 | 5.75E-05 | 2.85E-05 |
| 857 | 258153.76 | 4084680.27 | 7.59E-05 | 1.10E-03 | 8.09E-04 | 8.09E-04 | 4.51E-04 | 1.15E-05 | 1.67E-04 | 1.26E-04 | 1.26E-04 | 6.95E-05 | 6.26E-06 | 9.09E-05 | 5.62E-05 | 5.62E-05 | 2.78E-05 |
| 858 | 258129.42 | 4084681.27 | 7.40E-05 | 1.07E-03 | 7.89E-04 | 7.89E-04 | 4.40E-04 | 1.12E-05 | 1.63E-04 | 1.23E-04 | 1.23E-04 | 6.77E-05 | 6.10E-06 | 8.82E-05 | 5.48E-05 | 5.48E-05 | 2.71E-05 |
| 859 | 258105.09 | 4084682.27 | 7.19E-05 | 1.04E-03 | 7.66E-04 | 7.66E-04 | 4.27E-04 | 1.09E-05 | 1.58E-04 | 1.20E-04 | 1.20E-04 | 6.58E-05 | 5.92E-06 | 8.57E-05 | 5.32E-05 | 5.32E-05 | 2.63E-05 |
| 860 | 258080.76 | 4084683.27 | 6.96E-05 | 1.01E-03 | 7.42E-04 | 7.42E-04 | 4.13E-04 | 1.06E-05 | 1.53E-04 | 1.16E-04 | 1.16E-04 | 6.37E-05 | 5.73E-06 | 8.29E-05 | 5.15E-05 | 5.15E-05 | 2.55E-05 |
| 861 | 258056.43 | 4084684.27 | 8.70E-05 | 9.70E-04 | 7.15E-04 | 7.15E-04 | 3.98E-04 | 1.02E-05 | 1.48E-04 | 1.12E-04 | 1.12E-04 | 6.14E-05 | 5.53E-06 | 7.99E-05 | 4.97E-05 | 4.97E-05 | 2.46E-05 |
| 862 | 258032.1 | 4084685.27 | 6.43E-05 | 9.30E-04 | 6.86E-04 | 6.86E-04 | 3.82E-04 | 9.76E-06 | 1.42E-04 | 1.07E-04 | 1.07E-04 | 5.89E-05 | 5.30E-06 | 7.67E-05 | 4.76E-05 | 4.76E-05 | 2.36E-05 |
| 863 | 258007.77 | 4084686.28 | 6.14E-05 | 8.88E-04 | 6.55E-04 | 6.55E-04 | 3.65E-04 | 9.32E-06 | 1.35E-04 | 1.02E-04 | 1.02E-04 | 5.62E-05 | 5.06E-06 | 7.32E-05 | 4.55E-05 | 4.55E-05 | 2.25E-05 |
| 864 | 257983.43 | 4084687.28 | 5.83E-05 | 8.44E-04 | 6.22E-04 | 6.22E-04 | 3.47E-04 | 8.85E-06 | 1.29E-04 | 9.71E-05 | 9.71E-05 | 5.34E-05 | 4.81E-06 | 6.95E-05 | 4.32E-05 | 4.32E-05 | 2.14E-05 |
| 865 | 257959.1 | 4084688.28 | 5.51E-05 | 7.97E-04 | 5.87E-04 | 5.87E-04 | 3.27E-04 | 8.36E-05 | 1.21E-04 | 9.17E-05 | 9.17E-05 | 5.04E-05 | 4.54E-06 | 6.57E-05 | 4.08E-05 | 4.08E-05 | 2.02E-05 |
| 866 | 257934.77 | 4084689.28 | 5.17E-05 | 7.48E-04 | 5.51E-04 | 5.51E-04 | 3.07E-04 | 7.84E-06 | 1.14E-04 | 8.60E-05 | 8.60E-05 | 4.73E-05 | 4.26E-06 | 6.16E-05 | 3.83E-05 | 3.83E-05 | 1.89E-05 |
| 867 | 257910.44 | 4084690.28 | 4.81E-05 | 6.96E-04 | 5.13E-04 | 5.13E-04 | 2.86E-04 | 7.31E-06 | 1.06E-04 | 8.01E-05 | 8.01E-05 | 4.41E-05 | 3.97E-06 | 5.74E-05 | 3.57E-05 | 3.57E-05 | 1.76E-05 |
| 868 | 257886.11 | 4084691.28 | 4.45E-05 | 6.44E-04 | 4.75E-04 | 4.75E-04 | 2.65E-04 | 6.76E-06 | 9.81E-05 | 7.41E-05 | 7.41E-05 | 4.07E-05 | 3.67E-06 | 5.31E-05 | 3.30E-05 | 3.30E-05 | 1.63E-05 |
| 869 | 257861.77 | 4084692.28 | 4.09E-05 | 5.91E-04 | 4.36E-04 | 4.36E-04 | 2.43E-04 | 6.20E-06 | 9.01E-05 | 6.80E-05 | 6.80E-05 | 3.74E-05 | 3.37E-06 | 4.87E-05 | 3.03E-05 | 3.03E-05 | 1.50E-05 |
| 870 | 257837.44 | 4084693.28 | 3.73E-05 | 5.39E-04 | 3.97E-04 | 3.97E-04 | 2.21E-04 | 5.65E-06 | 8.21E-05 | 6.20E-05 | 6.20E-05 | 3.41E-05 | 3.07E-06 | 4.44E-05 | 2.76E-05 | 2.76E-05 | 1.37E-05 |
| 871 | 257813.11 | 4084694.28 | 3.37E-05 | 4.88E-04 | 3.60E-04 | 3.60E-04 | 2.01E-04 | 5.12E-06 | 7.43E-05 | 5.62E-05 | 5.62E-05 | 3.09E-05 | 2.78E-06 | 4.02E-05 | 2.50E-05 | 2.50E-05 | 1.24E-05 |
| 872 | 257788.78 | 4084695.28 | 3.04E-05 | 4.40E-04 | 3.24E-04 | 3.24E-04 | 1.81E-04 | 4.61E-06 | 6.70E-05 | 5.06E-05 | 5.06E-05 | 2.78E-05 | 2.51E-06 | 3.62E-05 | 2.25E-05 | 2.25E-05 | 1.11E-05 |
| 873 | 257764.45 | 4084696.28 | 2.73E-05 | 3.94E-04 | 2.91E-04 | 2.91E-04 | 1.62E-04 | 4.14E-06 | 6.01E-05 | 4.54E-05 | 4.54E-05 | 2.50E-05 | 2.25E-06 | 3.25E-05 | 2.02E-05 | 2.02E-05 | 1.00E-05 |
| 874 | 257740.12 | 4084697.28 | 2.44E-05 | 3.53E-04 | 2.60E-04 | 2.60E-04 | 1.45E-04 | 3.71E-06 | 5.38E-05 | 4.06E-05 | 4.06E-05 | 2.23E-05 | 2.01E-06 | 2.91E-05 | 1.81E-05 | 1.81E-05 | 8.95E-06 |
| 875 | 257715.76 | 4084698.28 | 2.19E-05 | 3.16E-04 | 2.33E-04 | 2.33E-04 | 1.30E-04 | 3.32E-06 | 4.82E-05 | 3.64E-05 | 3.64E-05 | 2.00E-05 | 1.80E-06 | 2.61E-05 | 1.62E-05 | 1.62E-05 | 8.02E-06 |
| 876 | 257691.45 | 4084699.28 | 1.96E-05 | 2.84E-04 | 2.09E-04 | 2.09E-04 | 1.17E-04 | 2.98E-06 | 4.33E-05 | 3.27E-05 | 3.27E-05 | 1.80E-05 | 1.62E-06 | 2.34E-05 | 1.45E-05 | 1.45E-05 | 7.20E-06 |
| 877 | 257867.12 | 4084700.28 | 1.77E-05 | 2.56E-04 | 1.89E-04 | 1.89E-04 | 1.05E-04 | 2.69E-06 | 3.90E-05 | 2.95E-05 | 2.95E-05 | 1.62E-05 | 1.46E-06 | 2.11E-05 | 1.31E-05 | 1.31E-05 | 6.49E-05 |
| 878 | 257642.79 | 4084701.28 | 1.61E-05 | 2.32E-04 | 1.71E-04 | 1.71E-04 | 9.55E-05 | 2.44E-06 | 3.54E-05 | 2.67E-05 | 2.67E-05 | 1.47E-05 | 1.32E-06 | 1.92E-05 | 1.19E-06 | 1.19E-05 | 5.89E-05 |
| 879 | 257618.46 | 4084702.28 | 1.47E-05 | 2.12E-04 | 1.56E-04 | 1.56E-04 | 8.72E-05 | 2.23E-06 | 3.23E-05 | 2.44E-05 | 2.44E-05 | 1.34E-05 | 1.21E-06 | 1.75E-05 | 1.09E-05 | 1.09E-05 | 5.38E-06 |
| 880 | 257594.12 | 4084703.28 | 1.35E-05 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.01E-05 | 2.05E-06 | 2.97E-05 | 2.24E-05 | 2.24E-05 | 1.23E-05 | 1.11E-06 | 1.61E-05 | 9.98E-06 | 9.98E-06 | 4.94E-06 |
| 881 | 257569.79 | 4084704.28 | 1.25E-05 | 1.80E-04 | 1.33E-04 | 1.33E-04 | 7.40E-05 | 1.89E-06 | 2.75E-05 | 2.07E-05 | 2.07E-05 | 1.14E-05 | 1.03E-06 | 1.49E-05 | 9.23E-06 | 9.23E-06 | 4.57E-06 |
| 882 | 257545.46 | 4084705.28 | 1.16E-05 | 1.68E-04 | 1.23E-04 | 1.23E-04 | 6.88E-05 | 1.76E-06 | 2.55E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.55E-07 | 1.38E-05 | 8.58E-06 | 8.58E-06 | 4.25E-06 |
| 883 | 258368.04 | 4084630.34 | 6.91E-05 | 9.99E-04 | 7.36E-04 | 7.36E-04 | 4.11E-04 | 1.05E-05 | 1.52E-04 | 1.15E-04 | 1.15E-04 | 6.32E-05 | 5.69E-06 | 8.24E-05 | 5.12E-05 | 5.12E-05 | 2.53E-05 |
| 884 | 258389.73 | 4084638.37 | 7.23E-05 | 1.05E-03 | 7.71E-04 | 7.71E-04 | 4.30E-04 | 1.10E-05 | 1.59E-04 | 1.20E-04 | 1.20E-04 | 6.62E-05 | 5.96E-06 | 8.62E-05 | 5.36E-05 | 5.36E-05 | 2.65E-05 |
| 885 | 258411.42 | 4084646.4 | 7.54E-05 | 1.09E-03 | 8.04E-04 | 8.04E-04 | 4.48E-04 | 1.14E-05 | 1.66E-04 | 1.26E-04 | 1.26E-04 | 6.90E-05 | 6.22E-06 | 8.99E-05 | 5.59E-05 | 5.59E-05 | 2.77E-05 |
| 886 | 258433.11 | 4084654.43 | 7.84E-05 | 1.13E-03 | 8.35E-04 | 8.35E-04 | 4.66E-04 | 1.19E-05 | 1.73E-04 | 1.30E-04 | 1.30E-04 | 7.17E-05 | 6.46E-06 | 9.34E-05 | 5.80E-05 | 5.80E-05 | 2.87E-05 |
| 887 | 258454.79 | 4084662.46 | 8.10E-05 | 1.17E-03 | 8.64E-04 | 8.64E-04 | 4.82E-04 | 1.23E-05 | 1.79E-04 | 1.35E-04 | 1.35E-04 | 7.42E-05 | 6.68E-06 | 9.66E-05 | 6.00E-05 | 6.00E-05 | 2.97E-05 |
| 888 | 258476.48 | 4084670.49 | 8.33E-05 | 1.21E-03 | 8.88E-04 | 8.88E-04 | 4.95E-04 | 1.26E-05 | 1.84E-04 | 1.39E-04 | 1.39E-04 | 7.62E-05 | 6.87E-06 | 9.93E-06 | 6.17E-05 | 6.17E-05 | 3.05E-05 |
| 889 | 258498.17 | 4084678.52 | 8.51E-05 | 1.23E-03 | 9.07E-04 | 9.07E-04 | 5.06E-04 | 1.29E-05 | 1.87E-04 | 1.42E-04 | 1.42E-04 | 7.79E-05 | 7.01E-06 | 1.01E-04 | 6.30E-05 | 6.30E-05 | 3.12E-05 |
| 890 | 258519.86 | 4084685.55 | 8.62E-05 | 1.25E-03 | 9.19E-04 | 9.19E-04 | 5.12E-04 | 1.31E-05 | 1.90E-04 | 1.43E-04 | 1.43E-04 | 7.89E-05 | 7.11E-06 | 1.03E-04 | 6.38E-05 | 6.38E-05 | 3.16E-05 |
| 891 | 258541.54 | 4084694.58 | 8.65E-05 | 1.25E-03 | 9.22E-04 | 9.22E-04 | 5.14E-04 | 1.31E-05 | 1.91E-04 | 1.44E-04 | 1.44E-04 | 7.92E-05 | 7.13E-06 | 1.03E-04 | 6.41E-05 | 6.41E-05 | 3.17E-05 |
| 892 | 258572.76 | 4084723.86 | 9.02E-05 | 1.30E-03 | 9.61E-04 | 9.61E-04 | 5.36E-04 | 1.37E-05 | 1.99E-04 | 1.50E-04 | 1.50E-04 | 8.25E-05 | 7.43E-06 | 1.07E-04 | 6.68E-05 | 6.68E-05 | 3.30E-05 |
| 893 | 258582.29 | 4084744.75 | 9.35E-05 | 1.35E-03 | 9.96E-04 | 9.96E-04 | 5.55E-04 | 1.42E-05 | 2.06E-04 | 1.56E-04 | 1.56E-04 | 8.55E-05 | 7.70E-06 | 1.11E-04 | 6.92E-05 | 6.92E-05 | 3.43E-05 |
| 894 | 258591.83 | 4084765.82 | 9.51E-05 | 1.38E-03 | 1.01E-03 | 1.01E-03 | 5.65E-04 | 1.44E-05 | 2.10E-04 | 1.58E-04 | 1.58E-04 | 8.70E-05 | 7.84E-06 | 1.13E-04 | 7.04E-05 | 7.04E-05 | 3.49E-05 |
| 895 | 258601.36 | 4084786.89 | 9.56E-05 | 1.38E-03 | 1.02E-03 | 1.02E-03 | 5.86E-04 | 1.45E-05 | 2.11E-04 | 1.59E-04 | 1.59E-04 | 8.75E-05 | 7.88E-06 | 1.14E-04 | 7.08E-05 | 7.08E-05 | 3.50E-05 |
| 896 | 258610.89 | 4084807.96 | 9.43E-05 | 1.36E-03 | 1.01E-03 | 1.01E-03 | 5.61E-04 | 1.43E-05 | 2.08E-04 | 1.57E-04 | 1.57E-04 | 8.63E-05 | 7.77E-05 | 1.12E-04 | 6.99E-05 | 6.99E-05 | 3.46E-05 |
| 897 | 258620.42 | 4084829.03 | 9.14E-05 | 1.32E-03 | 9.74E-04 | 9.74E-04 | 5.43E-04 | 1.39E-05 | 2.01E-04 | 1.52E-04 | 1.52E-04 | 8.36E-05 | 7.53E-06 | 1.09E-04 | 6.77E-05 | 6.77E-05 | 3.35E-05 |
| 898 | 258629.96 | 4084850.1 | 8.70E-05 | 1.26E-03 | 9.27E-04 | 9.27E-04 | 5.17E-04 | 1.32E-05 | 1.92E-04 | 1.45E-04 | 1.45E-04 | 7.96E-05 | 7.17E-06 | 1.04E-04 | 6.44E-05 | 6.44E-05 | 3.19E-05 |
| 899 | 258639.49 | 4084871.17 | 8.14E-05 | 1.18E-03 | 8.67E-04 | 8.67E-04 | 4.84E-04 | 1.23E-05 | 1.79E-04 | 1.35E-04 | 1.35E-04 | 7.44E-05 | 6.71E-06 | 9.70E-05 | 6.02E-05 | 6.02E-05 | 2.98E-05 |
| 900 | 258649.02 | 4084892.24 | 7.50E-05 | 1.08E-03 | 7.99E-04 | 7.99E-04 | 4.46E-04 | 1.14E-05 | 1.65E-04 | 1.25E-04 | 1.25E-04 | 6.86E-05 | 6.18E-06 | 8.94E-05 | 5.55E-05 | 5.55E-05 | 2.75E-05 |
| 901 | 258346.36 | 4084622.31 | 6.58E-05 | 9.51E-04 | 7.01E-04 | 7.01E-04 | 3.91E-04 | 9.98E-06 | 1.45E-04 | 1.09E-04 | 1.09E-04 | 6.02E-05 | 5.42E-06 | 7.84E-05 | 4.87E-05 | 4.87E-05 | 2.41E-05 |
| 902 | 258322.03 | 4084623.31 | 6.51E-05 | 9.42E-04 | 6.94E-04 | 6.94E-04 | 3.87E-04 | 9.88E-06 | 1.43E-04 | 1.08E-04 | 1.08E-04 | 5.96E-05 | 5.37E-06 | 7.76E-05 | 4.82E-05 | 4.82E-05 | 2.39E-05 |
| 903 | 258297.69 | 4084624.31 | 6.43E-05 | 9.30E-04 | 6.86E-04 | 6.86E-04 | 3.82E-04 | 9.76E-06 | 1.42E-04 | 1.07E-04 | 1.07E-04 | 5.89E-05 | 5.30E-06 | 7.67E-05 | 4.76E-05 | 4.76E-05 | 2.36E-05 |
| 904 | 258273.36 | 4084625.31 | 6.34E-05 | 9.17E-04 | 6.76E-04 | 6.76E-04 | 3.77E-04 | 9.62E-06 | 1.40E-04 | 1.06E-04 | 1.06E-04 | 5.80E-05 | 5.22E-06 | 7.56E-05 | 4.69E-05 | 4.69E-05 | 2.32E-05 |
| 905 | 258249.03 | 4084626.31 | 6.23E-05 | 9.00E-04 | 6.64E-04 | 6.64E-04 | 3.70E-04 | 9.45E-06 | 1.37E-04 | 1.04E-04 | 1.04E-04 | 5.70E-05 | 5.13E-06 | 7.42E-05 | 4.61E-05 | 4.61E-05 | 2.28E-05 |
| 906 | 258224.7 | 4084627.31 | 6.10E-05 | 8.83E-04 | 6.50E-04 | 6.50E-04 | 3.63E-04 | 9.26E-06 | 1.34E-04 | 1.02E-04 | 1.02E-04 | 5.58E-05 | 5.03E-06 | 7.27E-05 | 4.52E-05 | 4.52E-05 | 2.24E-05 |
| 907 | 258200.37 | 4084628.32 | 5.96E-05 | 8.62E-04 | 6.35E-04 | 6.35E-04 | 3.54E-04 | 9.05E-06 | 1.31E-04 | 9.92E-05 | 9.92E-05 | 5.46E-05 | 4.91E-06 | 7.11E-05 | 4.41E-05 | 4.41E-05 | 2.19E-05 |
| 908 | 258176.03 | 4084629.32 | 5.81E-05 | 8.40E-04 | 6.19E-04 | 6.19E-04 | 3.45E-04 | 8.81E-06 | 1.28E-04 | 9.66E-05 | 9.66E-05 | 5.31E-05 | 4.79E-06 | 6.92E-05 | 4.30E-05 | 4.30E-05 | 2.13E-05 |
| 909 | 258151.7 | 4084630.32 | 5.64E-05 | 8.15E-04 | 6.01E-04 | 6.01E-04 | 3.35E-04 | 8.55E-06 | 1.24E-04 | 9.38E-05 | 9.38E-05 | 5.16E-05 | 4.65E-06 | 6.72E-05 | 4.17E-05 | 4.17E-05 | 2.07E-05 |
| 910 | 258127.37 | 4084631.32 | 5.45E-05 | 7.89E-04 | 5.81E-04 | 5.81E-04 | 3.24E-04 | 8.28E-06 | 1.20E-04 | 9.03E-05 | 9.08E-05 | 4.99E-05 | 4.49E-06 | 6.50E-05 | 4.04E-05 | 4.04E-05 | 2.00E-05 |
| 911 | 258103.04 | 4084632.32 | 5.25E-05 | 7.60E-04 | 5.60E-04 | 5.60E-04 | 3.12E-04 | 7.97E-06 | 1.16E-04 | 8.74E-05 | 8.74E-05 | 4.81E-05 | 4.33E-06 | 6.26E-05 | 3.89E-05 | 3.89E-05 | 1.92E-05 |
| 912 | 258078.71 | 4084633.32 | 5.04E-05 | 7.29E-04 | 5.37E-04 | 5.37E-04 | 3.00E-04 | 7.65E-06 | 1.11E-04 | 8.39E-05 | 8.39E-05 | 4.61E-05 | 4.15E-06 | 6.01E-05 | 3.73E-05 | 3.73E-05 | 1.85E-05 |
| 913 | 258054.38 | 4084634.32 | 4.82E-05 | 6.97E-04 | 5.14E-04 | 5.14E-04 | 2.86E-04 | 7.31E-06 | 1.06E-04 | 8.02E-05 | 8.02E-05 | 4.41E-05 | 3.97E-06 | 5.74E-05 | 3.57E-05 | 3.57E-05 | 1.77E-05 |
| 914 | 258030.04 | 4084635.32 | 4.59E-05 | 6.63E-04 | 4.89E-04 | 4.89E-04 | 2.73E-04 | 6.96E-06 | 1.01E-04 | 7.63E-05 | 7.63E-05 | 4.20E-05 | 3.78E-06 | 5.47E-05 | 3.40E-05 | 3.40E-05 | 1.68E-05 |
| 915 | 258005.71 | 4084636.32 | 4.34E-05 | 6.28E-04 | 4.63E-04 | 4.63E-04 | 2.58E-04 | 6.59E-06 | 9.57E-05 | 7.23E-05 | 7.23E-05 | 3.98E-05 | 3.58E-06 | 5.18E-05 | 3.22E-05 | 3.22E-05 | 1.59E-05 |
| 916 | 257981.38 | 4084637.32 | 4.09E-05 | 5.92E-04 | 4.36E-04 | 4.36E-04 | 2.43E-04 | 6.21E-06 | 9.02E-05 | 6.81E-05 | 6.81E-05 | 3.74E-05 | 3.37E-06 | 4.88E-05 | 3.03E-05 | 3.03E-05 | 1.50E-05 |
| 917 | 257957.05 | 4084638.32 | 3.63E-05 | 5.54E-04 | 4.09E-04 | 4.09E-04 | 2.28E-04 | 5.82E-06 | 8.44E-05 | 6.38E-05 | 6.38E-05 | 3.51E-05 | 3.16E-06 | 4.57E-05 | 2.84E-05 | 2.84E-05 | 1.40E-05 |
| 918 | 257932.72 | 4084639.32 | 3.57E-06 | 5.16E-04 | 3.80E-04 | 3.80E-04 | 2.12E-04 | 5.42E-06 | 7.86E-05 | 5.94E-05 | 5.94E-05 | 3.27E-05 | 2.94E-06 | 4.26E-05 | 2.64E-05 | 2.64E-05 | 1.31E-05 |
| 919 | 257908.38 | 4084640.32 | 3.31E-05 | 4.78E-04 | 3.52E-04 | 3.52E-04 | 1.96E-04 | 5.02E-06 | 7.28E-05 | 5.50E-05 | 5.50E-05 | 3.03E-05 | 2.73E-06 | 3.94E-05 | 2.45E-05 | 2.45E-05 | 1.21E-05 |
| 920 | 257884.05 | 4084641.32 | 3.05E-05 | 4.41E-04 | 3.25E-04 | 3.25E-04 | 1.81E-04 | 4.62E-06 | 6.71E-05 | 5.07E-05 | 5.07E-05 | 2.79E-05 | 2.51E-06 | 3.63E-05 | 2.26E-05 | 2.26E-05 | 1.12E-05 |
| 921 | 257859.72 | 4084642.32 | 2.79E-05 | 4.04E-04 | 2.98E-04 | 2.98E-04 | 1.66E-04 | 4.24E-06 | 6.16E-05 | 4.65E-05 | 4.65E-05 | 2.56E-05 | 2.30E-06 | 3.33E-05 | 2.07E-05 | 2.07E-05 | 1.02E-05 |
| 922 | 257835.39 | 4084643.32 | 2.55E-05 | 3.69E-04 | 2.72E-04 | 2.72E-04 | 1.52E-04 | 3.87E-06 | 5.62E-05 | 4.25E-05 | 4.25E-05 | 2.33E-05 | 2.10E-06 | 3.04E-05 | 1.89E-05 | 1.89E-05 | 9.35E-06 |
| 923 | 257811.06 | 4084644.32 | 2.32E-05 | 3.36E-04 | 2.48E-04 | 2.48E-04 | 1.38E-04 | 3.53E-06 | 5.12E-05 | 3.87E-05 | 3.87E-05 | 2.13E-05 | 1.92E-06 | 2.77E-05 | 1.72E-05 | 1.72E-05 | 8.52E-05 |
| 924 | 257786.73 | 4084645.32 | 2.11E-05 | 3.06E-04 | 2.25E-04 | 2.25E-04 | 1.26E-04 | 3.21E-06 | 4.65E-05 | 3.52E-05 | 3.52E-05 | 1.93E-05 | 1.74E-06 | 2.52E-05 | 1.56E-05 | 1.56E-05 | 7.74E-06 |
| 925 | 257762.39 | 4084646.32 | 1.92E-05 | 2.78E-04 | 2.05E-04 | 2.05E-04 | 1.14E-04 | 2.91E-06 | 4.23E-05 | 3.19E-05 | 3.19E-05 | 1.76E-06 | 1.58E-06 | 2.29E-05 | 1.42E-05 | 1.42E-05 | 7.04E-06 |
| 926 | 257738.06 | 4084647.32 | 1.75E-05 | 2.52E-04 | 1.86E-04 | 1.86E-04 | 1.04E-04 | 2.65E-06 | 3.85E-05 | 2.91E-05 | 2.91E-05 | 1.60E-05 | 1.44E-06 | 2.08E-05 | 1.29E-05 | 1.29E-05 | 6.40E-06 |
| 927 | 257713.73 | 4084648.32 | 1.59E-05 | 2.30E-04 | 1.70E-04 | 1.70E-04 | 9.46E-05 | 2.41E-06 | 3.51E-05 | 2.65E-05 | 2.65E-05 | 1.46E-05 | 1.31E-06 | 1.90E-05 | 1.18E-05 | 1.18E-05 | 5.83E-06 |
| 928 | 257689.4 | 4084649.32 | 1.45E-05 | 2.10E-04 | 1.55E-04 | 1.55E-04 | 8.65E-05 | 2.21E-06 | 3.21E-05 | 2.42E-05 | 2.42E-05 | 1.33E-05 | 1.20E-06 | 1.73E-05 | 1.08E-05 | 1.08E-05 | 5.33E-06 |
| 929 | 257665.07 | 4084650.32 | 1.34E-05 | 1.93E-04 | 1.42E-04 | 1.42E-04 | 7.94E-05 | 2.03E-06 | 2.94E-05 | 2.22E-05 | 2.22E-05 | 1.22E-05 | 1.10E-06 | 1.59E-05 | 9.89E-06 | 9.89E-06 | 4.90E-06 |
| 930 | 257640.73 | 4084651.32 | 1.23E-05 | 1.76E-04 | 1.31E-04 | 1.31E-04 | 7.33E-05 | 1.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.13E-06 | 9.13E-06 | 4.52E-06 |
| 931 | 257616.4 | 4084652.32 | 1.14E-05 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.79E-05 | 1.73E-06 | 2.52E-05 | 1.90E-05 | 1.90E-05 | 1.05E-05 | 9.42E-07 | 1.36E-05 | 8.46E-06 | 8.46E-06 | 4.19E-06 |
| 932 | 257592.07 | 4084653.32 | 1.06E-05 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.33E-05 | 1.62E-06 | 2.35E-05 | 1.77E-05 | 1.77E-05 | 9.74E-06 | 8.78E-07 | 1.27E-05 | 7.88E-06 | 7.88E-06 | 3.90E-06 |
| 933 | 257567.74 | 4084654.32 | 9.96E-06 | 1.44E-04 | 1.06E-04 | 1.06E-04 | 5.92E-05 | 1.51E-06 | 2.19E-05 | 1.66E-05 | 1.66E-05 | 9.11E-06 | 8.21E-07 | 1.19E-05 | 7.37E-06 | 7.37E-06 | 3.65E-05 |
| 934 | 257543.41 | 4084655.32 | 9.35E-06 | 1.35E-04 | 9.97E-05 | 9.97E-05 | 5.56E-05 | 1.42E-06 | 2.06E-05 | 1.56E-05 | 1.56E-05 | 8.55E-06 | 7.71E-07 | 1.11E-05 | 6.92E-06 | 6.92E-06 | 3.43E-06 |
| 935 | 258364.49 | 4084530.63 | 4.36E-05 | 6.31E-04 | 4.65E-04 | 4.65E-04 | 2.59E-04 | 6.62E-06 | 9.61E-05 | 7.26E-05 | 7.26E-05 | 3.99E-05 | 3.60E-06 | 5.20E-05 | 3.23E-05 | 3.23E-05 | 1.60E-05 |
| 936 | 258386.74 | 4084538.87 | 4.60E-05 | 6.66E-04 | 4.91E-04 | 4.91E-04 | 2.73E-04 | 6.98E-06 | 1.01E-04 | 7.66E-05 | 7.66E-05 | 4.21E-05 | 3.79E-06 | 5.49E-05 | 3.41E-05 | 3.41E-05 | 1.59E-05 |
| 937 | 258408.98 | 4084547.1 | 4.84E-05 | 7.00E-04 | 5.16E-04 | 5.16E-04 | 2.87E-04 | 7.34E-06 | 1.07E-04 | 8.05E-05 | 8.05E-05 | 4.43E-05 | 3.99E-06 | 5.77E-05 | 3.58E-05 | 3.58E-05 | 1.77E-05 |
| 938 | 258431.22 | 4084555.34 | 5.07E-05 | 7.33E-04 | 5.40E-04 | 5.40E-04 | 3.01E-04 | 7.69E-06 | 1.12E-04 | 8.43E-05 | 8.43E-05 | 4.64E-05 | 4.18E-06 | 6.04E-05 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 732 | 258062.59 | 4084834.15 | 2.13E-04 | 3.09E-03 | 2.27E-03 | 2.27E-03 | 1.27E-03 | 3.24E-05 | 4.70E-04 | 3.55E-04 | 3.55E-04 | 1.95E-04 | 1.76E-05 | 2.54E-04 | 1.58E-04 | 1.58E-04 | 7.82E-05 |
| 733 | 258038.26 | 4084835.15 | 2.10E-04 | 3.04E-03 | 2.24E-03 | 2.24E-03 | 1.25E-03 | 3.19E-05 | 4.64E-04 | 3.50E-04 | 3.50E-04 | 1.93E-04 | 1.73E-05 | 2.51E-04 | 1.56E-04 | 1.56E-04 | 7.72E-05 |
| 734 | 258013.93 | 4084836.15 | 2.07E-04 | 3.00E-03 | 2.21E-03 | 2.21E-03 | 1.23E-03 | 3.14E-05 | 4.56E-04 | 3.45E-04 | 3.45E-04 | 1.90E-04 | 1.71E-05 | 2.47E-04 | 1.53E-04 | 1.53E-04 | 7.59E-05 |
| 735 | 257989.6 | 4084837.15 | 2.03E-04 | 2.94E-03 | 2.17E-03 | 2.17E-03 | 1.21E-03 | 3.08E-05 | 4.48E-04 | 3.38E-04 | 3.38E-04 | 1.86E-04 | 1.68E-05 | 2.42E-04 | 1.50E-04 | 1.50E-04 | 7.45E-05 |
| 736 | 257965.26 | 4084838.15 | 1.99E-04 | 2.87E-03 | 2.12E-03 | 2.12E-03 | 1.18E-03 | 3.02E-05 | 4.38E-04 | 3.31E-04 | 3.31E-04 | 1.82E-04 | 1.64E-05 | 2.37E-04 | 1.47E-04 | 1.47E-04 | 7.28E-05 |
| 737 | 257940.93 | 4084839.15 | 1.93E-04 | 2.80E-03 | 2.06E-03 | 2.06E-03 | 1.15E-03 | 2.94E-05 | 4.26E-04 | 3.22E-04 | 3.22E-04 | 1.77E-04 | 1.59E-05 | 2.31E-04 | 1.43E-04 | 1.43E-04 | 7.09E-05 |
| 738 | 257916.6 | 4084840.15 | 1.87E-04 | 2.71E-03 | 2.00E-03 | 2.00E-03 | 1.11E-03 | 2.84E-05 | 4.13E-04 | 3.12E-04 | 3.12E-04 | 1.72E-04 | 1.54E-05 | 2.23E-04 | 1.39E-04 | 1.39E-04 | 6.87E-05 |
| 739 | 257892.27 | 4084841.15 | 1.81E-04 | 2.61E-03 | 1.92E-03 | 1.92E-03 | 1.07E-03 | 2.74E-05 | 3.98E-04 | 3.01E-04 | 3.01E-04 | 1.65E-04 | 1.49E-05 | 2.15E-04 | 1.34E-04 | 1.34E-04 | 6.62E-05 |
| 740 | 257867.94 | 4084842.15 | 1.73E-04 | 2.50E-03 | 1.84E-03 | 1.84E-03 | 1.03E-03 | 2.62E-05 | 3.81E-04 | 2.87E-04 | 2.87E-04 | 1.58E-04 | 1.42E-05 | 2.06E-04 | 1.28E-04 | 1.28E-04 | 6.33E-05 |
| 741 | 257843.6 | 4084843.15 | 1.64E-04 | 2.37E-03 | 1.75E-03 | 1.75E-03 | 9.74E-04 | 2.49E-05 | 3.61E-04 | 2.73E-04 | 2.73E-04 | 1.50E-04 | 1.35E-05 | 1.95E-04 | 1.21E-04 | 1.21E-04 | 6.01E-05 |
| 742 | 257819.27 | 4084844.15 | 1.54E-04 | 2.23E-03 | 1.64E-03 | 1.64E-03 | 9.15E-04 | 2.34E-05 | 3.39E-04 | 2.56E-04 | 2.56E-04 | 1.41E-04 | 1.27E-05 | 1.83E-04 | 1.14E-04 | 1.14E-04 | 5.64E-05 |
| 743 | 257794.94 | 4084845.15 | 1.43E-04 | 2.07E-03 | 1.52E-03 | 1.52E-03 | 8.49E-04 | 2.17E-05 | 3.15E-04 | 2.38E-04 | 2.38E-04 | 1.31E-04 | 1.18E-05 | 1.70E-04 | 1.06E-04 | 1.06E-04 | 5.23E-05 |
| 744 | 257770.61 | 4084846.15 | 1.31E-04 | 1.89E-03 | 1.39E-03 | 1.39E-03 | 7.76E-04 | 1.98E-05 | 2.88E-04 | 2.17E-04 | 2.17E-04 | 1.19E-04 | 1.08E-05 | 1.56E-04 | 9.67E-05 | 9.67E-05 | 4.79E-05 |
| 745 | 257746.28 | 4084847.15 | 1.17E-04 | 1.70E-03 | 1.25E-03 | 1.25E-03 | 6.97E-04 | 1.78E-05 | 2.58E-04 | 1.95E-04 | 1.95E-04 | 1.07E-04 | 9.66E-06 | 1.40E-04 | 8.68E-05 | 8.68E-06 | 4.30E-05 |
| 746 | 257721.95 | 4084848.15 | 1.03E-04 | 1.49E-03 | 1.10E-03 | 1.10E-03 | 6.13E-04 | 1.56E-05 | 2.27E-04 | 1.72E-04 | 1.72E-04 | 9.43E-05 | 8.50E-06 | 1.23E-04 | 7.63E-05 | 7.63E-05 | 3.78E-06 |
| 747 | 257697.61 | 4084849.15 | 8.85E-05 | 1.28E-03 | 9.43E-04 | 9.43E-04 | 5.26E-04 | 1.34E-05 | 1.95E-04 | 1.47E-04 | 1.47E-04 | 8.10E-05 | 7.29E-05 | 1.06E-04 | 6.55E-05 | 6.55E-05 | 3.24E-05 |
| 748 | 257673.28 | 4084850.15 | 7.41E-05 | 1.07E-03 | 7.89E-04 | 7.89E-04 | 4.40E-04 | 1.12E-05 | 1.63E-04 | 1.23E-04 | 1.23E-04 | 6.78E-05 | 6.10E-05 | 8.83E-05 | 5.48E-05 | 5.48E-05 | 2.71E-05 |
| 749 | 257648.95 | 4084851.15 | 6.06E-05 | 8.77E-04 | 6.47E-04 | 6.47E-04 | 3.60E-04 | 9.20E-06 | 1.34E-04 | 1.01E-04 | 1.01E-04 | 5.55E-05 | 5.00E-06 | 7.23E-05 | 4.49E-05 | 4.49E-05 | 2.22E-05 |
| 750 | 257624.62 | 4084852.15 | 4.92E-05 | 7.11E-04 | 5.24E-04 | 5.24E-04 | 2.92E-04 | 7.46E-06 | 1.08E-04 | 8.18E-05 | 8.18E-05 | 4.50E-05 | 4.05E-06 | 5.86E-05 | 3.64E-05 | 3.64E-05 | 1.80E-05 |
| 751 | 257600.29 | 4084853.15 | 4.02E-05 | 5.81E-04 | 4.29E-04 | 4.29E-04 | 2.39E-04 | 6.10E-06 | 8.86E-05 | 6.69E-05 | 6.69E-05 | 3.68E-05 | 3.31E-05 | 4.79E-05 | 2.98E-05 | 2.98E-06 | 1.47E-05 |
| 752 | 257575.95 | 4084854.15 | 3.37E-05 | 4.87E-04 | 3.59E-04 | 3.59E-04 | 2.00E-04 | 5.11E-05 | 7.42E-05 | 5.60E-05 | 5.60E-05 | 3.08E-05 | 2.77E-06 | 4.01E-05 | 2.49E-05 | 2.49E-05 | 1.23E-05 |
| 753 | 257551.62 | 4084855.15 | 2.90E-05 | 4.19E-04 | 3.09E-04 | 3.09E-04 | 1.72E-04 | 4.40E-06 | 6.38E-05 | 4.82E-05 | 4.82E-05 | 2.65E-05 | 2.39E-05 | 3.45E-05 | 2.15E-05 | 2.15E-05 | 1.06E-05 |
| 754 | 258374.21 | 4084780.22 | 1.57E-04 | 2.27E-03 | 1.67E-03 | 1.67E-03 | 9.31E-04 | 2.38E-05 | 3.45E-04 | 2.61E-04 | 2.61E-04 | 1.43E-04 | 1.29E-05 | 1.87E-04 | 1.16E-04 | 1.16E-04 | 5.74E-05 |
| 755 | 258395.89 | 4084788.25 | 1.63E-04 | 2.36E-03 | 1.74E-03 | 1.74E-03 | 9.70E-04 | 2.48E-05 | 3.60E-04 | 2.72E-04 | 2.72E-04 | 1.49E-04 | 1.35E-05 | 1.95E-04 | 1.21E-04 | 1.21E-04 | 5.98E-05 |
| 756 | 258417.58 | 4084796.27 | 1.68E-04 | 2.43E-03 | 1.79E-03 | 1.79E-03 | 1.00E-03 | 2.55E-05 | 3.71E-04 | 2.80E-04 | 2.80E-04 | 1.54E-04 | 1.39E-05 | 2.01E-04 | 1.25E-04 | 1.25E-04 | 6.17E-05 |
| 757 | 258439.27 | 4084804.3 | 1.71E-04 | 2.47E-03 | 1.82E-03 | 1.82E-03 | 1.02E-03 | 2.59E-05 | 3.76E-04 | 2.84E-04 | 2.84E-04 | 1.56E-04 | 1.41E-05 | 2.04E-04 | 1.27E-04 | 1.27E-04 | 6.26E-05 |
| 758 | 258470.49 | 4084833.4 | 1.83E-04 | 2.64E-03 | 1.95E-03 | 3.95E-03 | 1.09E-03 | 2.77E-05 | 4.03E-04 | 3.04E-04 | 3.04E-04 | 1.67E-04 | 1.51E-05 | 2.18E-04 | 1.35E-04 | 1.35E-04 | 6.70E-05 |
| 759 | 258480.02 | 4084854.47 | 1.91E-04 | 2.76E-03 | 2.04E-03 | 2.04E-03 | 1.14E-03 | 2.90E-05 | 4.21E-04 | 3.18E-04 | 3.18E-04 | 1.75E-04 | 1.58E-05 | 2.28E-04 | 1.42E-04 | 1.42E-04 | 7.01E-05 |
| 760 | 258489.55 | 4084875.54 | 1.93E-04 | 2.79E-03 | 2.06E-03 | 2.06E-03 | 1.35E-03 | 2.93E-05 | 4.25E-04 | 3.21E-04 | 3.21E-04 | 1.76E-04 | 1.59E-05 | 2.30E-04 | 1.43E-04 | 1.43E-04 | 7.07E-05 |
| 761 | 258499.08 | 4084896.61 | 1.88E-04 | 2.72E-03 | 2.00E-03 | 2.00E-03 | 1.32E-03 | 2.85E-05 | 4.14E-04 | 3.13E-04 | 3.13E-04 | 1.72E-04 | 1.55E-05 | 2.24E-04 | 1.39E-04 | 1.39E-04 | 6.89E-05 |
| 762 | 258352.52 | 4084772.19 | 1.49E-04 | 2.36E-03 | 1.59E-03 | 1.59E-03 | 8.88E-04 | 2.27E-05 | 3.29E-04 | 2.49E-04 | 2.49E-04 | 1.37E-04 | 1.23E-05 | 1.78E-04 | 1.11E-04 | 1.11E-04 | 5.48E-05 |
| 763 | 258328.19 | 4084773.19 | 1.51E-04 | 2.18E-03 | 1.60E-03 | 1.60E-03 | 8.95E-04 | 2.28E-05 | 3.32E-04 | 2.51E-04 | 2.51E-04 | 1.38E-04 | 1.24E-05 | 1.79E-04 | 1.11E-04 | 1.11E-04 | 5.52E-05 |
| 764 | 258303.85 | 4084774.19 | 1.51E-04 | 2.19E-03 | 1.61E-03 | 1.61E-03 | 8.98E-04 | 2.29E-05 | 3.33E-04 | 2.52E-04 | 2.52E-04 | 1.38E-04 | 1.25E-05 | 3.80E-04 | 1.12E-04 | 1.12E-04 | 5.54E-05 |
| 765 | 258279.52 | 4084775.19 | 1.51E-04 | 2.19E-03 | 1.61E-03 | 1.61E-03 | 8.99E-04 | 2.30E-05 | 3.33E-04 | 2.52E-04 | 2.52E-04 | 1.38E-04 | 1.25E-05 | 1.80E-04 | 1.12E-04 | 1.12E-04 | 5.55E-05 |
| 766 | 258255.19 | 4084776.19 | 1.51E-04 | 2.19E-03 | 1.61E-03 | 1.61E-03 | 8.98E-04 | 2.29E-05 | 3.33E-04 | 2.51E-04 | 2.51E-04 | 1.38E-04 | 1.25E-05 | 1.80E-04 | 1.12E-04 | 1.12E-04 | 5.54E-05 |
| 767 | 258230.86 | 4084777.19 | 1.51E-04 | 2.18E-03 | 1.61E-03 | 1.61E-03 | 8.95E-04 | 2.29E-05 | 3.32E-04 | 2.51E-04 | 2.51E-04 | 1.38E-04 | 1.24E-05 | 1.80E-04 | 1.12E-04 | 1.12E-04 | 5.52E-05 |
| 768 | 258206.53 | 4084778.19 | 1.50E-04 | 2.17E-03 | 1.60E-03 | 1.60E-03 | 8.90E-04 | 2.27E-05 | 3.30E-04 | 2.49E-04 | 2.49E-04 | 1.37E-04 | 1.23E-05 | 1.79E-04 | 1.11E-04 | 1.11E-04 | 5.49E-06 |
| 769 | 258182.2 | 4084779.19 | 1.49E-04 | 2.15E-03 | 1.59E-03 | 1.59E-03 | 8.84E-04 | 2.26E-05 | 3.28E-04 | 2.48E-04 | 2.48E-04 | 1.36E-04 | 1.23E-05 | 1.77E-04 | 1.10E-04 | 1.10E-04 | 5.45E-05 |
| 770 | 258157.86 | 4084780.19 | 1.47E-04 | 2.13E-03 | 1.57E-03 | 1.57E-03 | 8.76E-04 | 2.24E-05 | 3.25E-04 | 2.45E-04 | 2.45E-04 | 1.35E-04 | 1.22E-05 | 1.76E-04 | 1.09E-04 | 1.09E-04 | 5.40E-05 |
| 771 | 258133.53 | 4084781.19 | 1.46E-04 | 2.11E-03 | 1.55E-03 | 1.55E-03 | 8.67E-04 | 2.21E-05 | 3.21E-04 | 2.43E-04 | 2.43E-04 | 1.33E-04 | 1.20E-05 | 1.74E-04 | 1.08E-04 | 1.08E-04 | 5.34E-05 |
| 772 | 258109.2 | 4084782.19 | 1.44E-04 | 2.08E-03 | 1.53E-03 | 1.53E-03 | 8.55E-04 | 2.18E-05 | 3.17E-04 | 2.39E-04 | 2.39E-04 | 1.32E-04 | 1.19E-05 | 1.72E-04 | 1.07E-04 | 1.07E-04 | 5.27E-05 |
| 773 | 258084.87 | 4084783.19 | 1.42E-04 | 2.05E-03 | 1.51E-03 | 1.51E-03 | 8.42E-04 | 2.15E-06 | 3.12E-04 | 2.36E-04 | 2.36E-04 | 1.30E-04 | 1.17E-05 | 1.69E-04 | 1.05E-04 | 1.05E-04 | 5.19E-05 |
| 774 | 258060.54 | 4084784.19 | 1.39E-04 | 2.01E-03 | 1.48E-03 | 1.48E-03 | 8.26E-04 | 2.11E-05 | 3.06E-04 | 2.31E-04 | 2.31E-04 | 1.27E-04 | 1.15E-05 | 1.66E-04 | 1.03E-04 | 1.03E-04 | 5.09E-05 |
| 775 | 258036.2 | 4084785.19 | 1.36E-04 | 1.97E-03 | 1.45E-03 | 1.45E-03 | 8.08E-04 | 2.06E-05 | 2.99E-04 | 2.26E-04 | 2.26E-04 | 1.24E-04 | 1.12E-05 | 1.62E-04 | 1.01E-04 | 1.01E-04 | 4.98E-05 |
| 776 | 258011.87 | 4084786.19 | 1.32E-04 | 1.92E-03 | 1.41E-03 | 1.41E-03 | 7.87E-04 | 2.01E-05 | 2.92E-04 | 2.20E-04 | 2.20E-04 | 1.21E-04 | 1.09E-05 | 1.58E-04 | 9.81E-05 | 9.81E-05 | 4.86E-05 |
| 777 | 257987.54 | 4084787.19 | 1.29E-04 | 1.86E-03 | 1.37E-03 | 1.37E-03 | 7.64E-04 | 1.95E-05 | 2.83E-04 | 2.14E-04 | 2.14E-04 | 1.18E-04 | 1.06E-05 | 1.53E-04 | 9.52E-05 | 9.52E-05 | 4.71E-05 |
| 778 | 257963.21 | 4084788.19 | 1.24E-04 | 1.80E-03 | 1.32E-03 | 1.32E-03 | 7.38E-04 | 1.88E-05 | 2.74E-04 | 2.07E-04 | 2.07E-04 | 1.14E-04 | 1.02E-05 | 1.48E-04 | 9.19E-05 | 9.19E-05 | 4.55E-05 |
| 779 | 257938.88 | 4084789.19 | 1.19E-04 | 1.72E-03 | 1.27E-03 | 1.27E-03 | 7.08E-04 | 1.81E-05 | 2.63E-04 | 1.98E-04 | 1.98E-04 | 1.09E-04 | 9.83E-06 | 1.42E-04 | 8.83E-05 | 8.83E-05 | 4.37E-05 |
| 780 | 257914.55 | 4084790.19 | 1.14E-04 | 1.65E-03 | 1.21E-03 | 1.21E-03 | 6.76E-04 | 1.73E-05 | 2.51E-04 | 1.89E-04 | 1.89E-04 | 1.04E-04 | 9.38E-06 | 1.36E-04 | 8.42E-05 | 8.42E-05 | 4.17E-05 |
| 781 | 257890.21 | 4084791.19 | 1.08E-04 | 1.56E-03 | 1.15E-03 | 1.35E-03 | 6.40E-04 | 1.63E-05 | 2.37E-04 | 1.79E-04 | 1.79E-04 | 9.86E-05 | 8.88E-06 | 1.28E-04 | 7.98E-05 | 7.98E-05 | 3.95E-06 |
| 782 | 257865.88 | 4084792.19 | 1.01E-04 | 1.46E-03 | 1.08E-03 | 1.08E-03 | 6.01E-04 | 1.53E-05 | 2.23E-04 | 1.68E-04 | 1.68E-04 | 9.26E-05 | 8.34E-06 | 3.21E-04 | 7.49E-05 | 7.49E-05 | 3.71E-05 |
| 783 | 257843.55 | 4084793.19 | 9.40E-05 | 3.36E-03 | 1.00E-03 | 1.00E-03 | 5.59E-04 | 1.43E-05 | 2.07E-04 | 1.57E-04 | 1.57E-04 | 8.60E-05 | 7.75E-06 | 1.12E-04 | 6.96E-06 | 6.96E-05 | 3.45E-05 |
| 784 | 257817.22 | 4084794.19 | 8.64E-05 | 1.25E-03 | 9.21E-04 | 9.21E-04 | 5.14E-04 | 1.31E-05 | 1.90E-04 | 1.44E-04 | 1.44E-04 | 7.91E-05 | 7.12E-05 | 1.03E-04 | 6.40E-05 | 6.40E-05 | 3.17E-05 |
| 785 | 257792.89 | 4084795.19 | 7.84E-05 | 1.13E-03 | 8.36E-04 | 8.36E-04 | 4.66E-04 | 1.19E-05 | 1.73E-04 | 1.31E-04 | 1.31E-04 | 7.18E-05 | 6.47E-06 | 9.35E-05 | 5.81E-05 | 5.81E-06 | 2.88E-05 |
| 786 | 257768.55 | 4084796.19 | 7.02E-05 | 1.02E-03 | 7.49E-04 | 7.49E-04 | 4.17E-04 | 1.07E-05 | 1.55E-04 | 1.17E-04 | 1.17E-04 | 6.43E-05 | 5.79E-05 | 8.37E-05 | 5.20E-05 | 5.20E-05 | 2.57E-05 |
| 787 | 257744.22 | 4084797.19 | 6.19E-05 | 8.96E-04 | 6.60E-04 | 6.60E-04 | 3.68E-04 | 9.40E-06 | 1.36E-04 | 1.03E-04 | 1.03E-04 | 5.67E-05 | 5.11E-05 | 7.38E-05 | 4.59E-05 | 4.59E-05 | 2.27E-05 |
| 788 | 257719.89 | 4084798.19 | 5.39E-05 | 7.79E-04 | 5.74E-04 | 5.74E-04 | 3.20E-04 | 8.18E-06 | 1.19E-04 | 8.97E-05 | 8.97E-05 | 4.93E-05 | 4.44E-06 | 6.42E-05 | 3.99E-05 | 3.99E-05 | 1.98E-05 |
| 789 | 257695.56 | 4084799.19 | 4.63E-05 | 6.70E-04 | 4.94E-04 | 4.94E-04 | 2.75E-04 | 7.03E-06 | 1.02E-04 | 7.71E-05 | 7.71E-05 | 4.24E-05 | 3.82E-06 | 5.52E-05 | 3.43E-05 | 3.43E-05 | 1.70E-05 |
| 790 | 257671.23 | 4084800.2 | 3.95E-05 | 5.72E-04 | 4.22E-04 | 4.22E-04 | 2.35E-04 | 6.00E-06 | 8.73E-05 | 6.58E-05 | 6.58E-05 | 3.62E-05 | 3.26E-06 | 4.71E-05 | 2.93E-05 | 2.93E-05 | 1.45E-05 |
| 791 | 257646.9 | 4084801.2 | 3.38E-05 | 4.88E-04 | 3.60E-04 | 3.60E-04 | 2.01E-04 | 5.12E-06 | 7.44E-05 | 5.62E-05 | 5.62E-05 | 3.09E-05 | 2.78E-06 | 4.02E-05 | 2.50E-05 | 2.50E-05 | 1.24E-05 |
| 792 | 257622.56 | 4084802.2 | 2.90E-05 | 4.20E-04 | 3.09E-04 | 3.09E-04 | 1.73E-04 | 4.41E-06 | 6.40E-05 | 4.83E-05 | 4.83E-05 | 2.66E-05 | 2.39E-06 | 3.46E-05 | 2.15E-05 | 2.15E-05 | 1.06E-05 |
| 793 | 257598.23 | 4084803.2 | 2.53E-05 | 3.66E-04 | 2.70E-04 | 2.70E-04 | 1.50E-04 | 3.84E-06 | 5.57E-05 | 4.21E-05 | 4.21E-05 | 2.31E-05 | 2.08E-06 | 3.01E-05 | 1.87E-05 | 1.87E-05 | 9.27E-06 |
| 794 | 257573.9 | 4084804.2 | 2.23E-05 | 3.23E-04 | 2.38E-04 | 2.38E-04 | 1.33E-04 | 3.39E-06 | 4.92E-05 | 3.72E-05 | 3.72E-05 | 2.04E-05 | 1.84E-06 | 2.66E-05 | 1.65E-05 | 1.65E-05 | 8.19E-05 |
| 795 | 257549.57 | 4084805.2 | 2.00E-05 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.04E-06 | 4.41E-05 | 3.33E-05 | 3.33E-05 | 1.83E-05 | 1.65E-05 | 2.39E-05 | 1.48E-05 | 1.48E-05 | 7.34E-06 |
| 796 | 258371.12 | 4084729.88 | 1.16E-04 | 1.67E-03 | 1.23E-03 | 1.23E-03 | 6.87E-04 | 1.75E-05 | 2.55E-04 | 1.92E-04 | 1.92E-04 | 1.06E-04 | 9.52E-05 | 1.38E-04 | 8.56E-05 | 8.56E-05 | 4.24E-05 |
| 797 | 258412.43 | 4084745.17 | 1.25E-04 | 1.80E-03 | 1.33E-03 | 1.33E-03 | 7.41E-04 | 1.89E-05 | 2.75E-04 | 2.07E-04 | 2.07E-04 | 1.14E-04 | 1.03E-05 | 1.49E-04 | 9.23E-05 | 9.23E-05 | 4.57E-05 |
| 798 | 258453.74 | 4084760.46 | 1.31E-04 | 1.89E-03 | 1.39E-03 | 1.39E-03 | 7.77E-04 | 1.98E-05 | 2.88E-04 | 2.18E-04 | 2.18E-04 | 1.20E-04 | 1.08E-05 | 1.56E-04 | 9.68E-05 | 9.68E-05 | 4.79E-05 |
| 799 | 258504.13 | 4084795.83 | 1.39E-04 | 2.01E-03 | 1.48E-03 | 1.48E-03 | 8.24E-04 | 2.10E-05 | 3.05E-04 | 2.31E-04 | 2.31E-04 | 1.27E-04 | 1.14E-05 | 1.65E-04 | 1.03E-04 | 1.03E-04 | 5.08E-05 |
| 800 | 258522.28 | 4084835.96 | 1.47E-04 | 2.12E-03 | 1.57E-03 | 1.57E-03 | 8.73E-04 | 2.23E-05 | 3.24E-04 | 2.44E-04 | 2.44E-04 | 1.34E-04 | 1.21E-05 | 1.75E-04 | 1.09E-04 | 1.09E-04 | 5.38E-05 |
| 801 | 258540.44 | 4084876.09 | 1.42E-04 | 2.05E-03 | 1.51E-03 | 1.51E-03 | 8.43E-04 | 2.15E-05 | 3.12E-04 | 2.36E-04 | 2.36E-04 | 1.30E-04 | 1.17E-05 | 1.69E-04 | 1.05E-04 | 1.05E-04 | 5.20E-06 |
| 802 | 258326.13 | 4084723.23 | 1.11E-04 | 1.60E-03 | 1.18E-03 | 1.18E-03 | 6.58E-04 | 1.68E-05 | 2.44E-04 | 1.84E-04 | 1.84E-04 | 1.01E-04 | 9.13E-06 | 1.32E-04 | 8.20E-05 | 8.20E-05 | 4.06E-05 |
| 803 | 258301.8 | 4084724.23 | 1.11E-04 | 1.60E-03 | 1.18E-03 | 1.18E-03 | 6.57E-04 | 1.68E-05 | 2.44E-04 | 1.84E-04 | 1.84E-04 | 1.01E-04 | 9.11E-06 | 1.32E-04 | 8.19E-05 | 8.19E-05 | 4.05E-05 |
| 804 | 258277.47 | 4084725.23 | 1.10E-04 | 1.59E-03 | 1.17E-03 | 1.17E-03 | 6.54E-04 | 1.67E-05 | 2.43E-04 | 1.83E-04 | 1.83E-04 | 1.01E-04 | 9.07E-06 | 1.31E-04 | 8.15E-06 | 8.15E-05 | 4.04E-05 |
| 805 | 258253.14 | 4084726.23 | 1.09E-04 | 1.58E-03 | 1.17E-03 | 1.17E-03 | 6.50E-04 | 1.66E-05 | 2.41E-04 | 1.82E-04 | 1.82E-04 | 1.00E-04 | 9.02E-05 | 1.30E-04 | 8.10E-05 | 8.10E-05 | 4.01E-06 |
| 806 | 258228.81 | 4084727.23 | 1.08E-04 | 1.57E-03 | 1.16E-03 | 1.16E-03 | 6.44E-04 | 1.65E-05 | 2.39E-04 | 1.80E-04 | 1.80E-04 | 9.92E-05 | 8.94E-06 | 1.29E-04 | 8.03E-05 | 8.03E-05 | 3.97E-05 |
| 807 | 258204.47 | 4084728.23 | 1.07E-04 | 1.55E-03 | 1.14E-03 | 1.14E-03 | 6.37E-04 | 1.63E-05 | 2.36E-04 | 1.79E-04 | 1.79E-04 | 9.82E-05 | 8.84E-06 | 1.28E-04 | 7.94E-05 | 7.94E-05 | 3.93E-05 |
| 808 | 258180.14 | 4084729.23 | 1.06E-04 | 1.53E-03 | 1.13E-03 | 1.13E-03 | 6.29E-04 | 1.61E-05 | 2.33E-04 | 1.76E-04 | 1.76E-04 | 9.69E-05 | 8.73E-05 | 1.26E-04 | 7.84E-05 | 7.84E-05 | 3.88E-05 |
| 809 | 258155.81 | 4084730.23 | 1.04E-04 | 1.51E-03 | 1.11E-03 | 1.11E-03 | 6.20E-04 | 1.58E-05 | 2.30E-04 | 1.74E-04 | 1.74E-04 | 9.54E-05 | 8.59E-06 | 1.24E-04 | 7.72E-05 | 7.72E-05 | 3.82E-05 |
| 810 | 258133.48 | 4084731.23 | 1.02E-04 | 1.48E-03 | 1.09E-03 | 1.09E-03 | 6.08E-04 | 1.55E-05 | 2.26E-04 | 1.70E-04 | 1.70E-04 | 9.37E-05 | 8.44E-06 | 1.22E-04 | 7.58E-05 | 7.58E-05 | 3.75E-05 |
| 811 | 258107.15 | 4084732.23 | 1.00E-04 | 1.45E-03 | 1.07E-03 | 1.07E-03 | 5.96E-04 | 1.52E-05 | 2.21E-04 | 1.67E-04 | 1.67E-04 | 9.17E-05 | 8.26E-06 | 1.20E-04 | 7.42E-05 | 7.42E-05 | 3.67E-05 |
| 812 | 258082.81 | 4084733.23 | 9.79E-05 | 1.42E-03 | 1.04E-03 | 1.04E-03 | 5.82E-04 | 1.49E-05 | 2.16E-04 | 1.63E-04 | 1.63E-04 | 8.95E-05 | 8.07E-06 | 1.17E-04 | 7.25E-05 | 7.25E-05 | 3.59E-05 |
| 813 | 258058.48 | 4084734.23 | 9.52E-05 | 1.38E-03 | 1.01E-03 | 1.01E-03 | 5.66E-04 | 1.44E-05 | 2.10E-04 | 1.58E-04 | 1.58E-04 | 8.71E-05 | 7.85E-06 | 1.13E-04 | 7.05E-05 | 7.05E-05 | 3.49E-05 |
| 814 | 258034.15 | 4084735.23 | 9.22E-05 | 1.33E-03 | 9.83E-04 | 9.83E-04 | 5.48E-04 | 1.40E-05 | 2.03E-04 | 1.53E-04 | 1.53E-04 | 8.44E-05 | 7.60E-06 | 1.10E-04 | 6.83E-05 | 6.83E-05 | 3.38E-05 |
| 815 | 258009.82 | 4084736.23 | 8.89E-05 | 1.29E-03 | 9.48E-04 | 9.48E-04 | 5.29E-04 | 1.35E-05 | 1.96E-04 | 1.48E-04 | 1.48E-04 | 8.14E-05 | 7.33E-06 | 1.06E-04 | 6.59E-05 | 6.59E-05 | 3.26E-05 |
| 816 | 257985.49 | 4084737.23 | 8.53E-05 | 1.23E-03 | 9.10E-04 | 9.10E-04 | 5.07E-04 | 1.30E-05 | 1.88E-04 | 1.42E-04 | 1.42E-04 | 7.81E-05 | 7.03E-06 | 1.02E-04 | 6.32E-05 | 6.32E-05 | 3.13E-05 |
| 817 | 257961.16 | 4084738.23 | 8.14E-05 | 1.18E-03 | 8.68E-04 | 8.68E-04 | 4.84E-04 | 1.24E-05 | 1.79E-04 | 1.36E-04 | 1.36E-04 | 7.45E-05 | 6.71E-06 | 9.71E-05 | 6.03E-05 | 6.03E-06 | 2.98E-05 |
| 818 | 257936.82 | 4084739.23 | 7.72E-05 | 1.12E-03 | 8.23E-04 | 8.23E-04 | 4.59E-04 | 1.17E-05 | 1.70E-04 | 1.28E-04 | 1.28E-04 | 7.06E-05 | 6.36E-05 | 9.20E-05 | 5.71E-05 | 5.71E-05 | 2.83E-05 |
| 819 | 257912.49 | 4084740.23 | 7.26E-05 | 1.05E-03 | 7.74E-04 | 7.74E-04 | 4.32E-04 | 1.10E-05 | 1.60E-04 | 1.21E-04 | 1.21E-04 | 6.65E-05 | 5.99E-06 | 8.68E-05 | 5.38E-05 | 5.38E-05 | 2.66E-05 |
| 820 | 257888.16 | 4084741.23 | 6.78E-05 | 9.81E-04 | 7.23E-04 | 7.23E-04 | 4.03E-04 | 1.03E-05 | 1.49E-04 | 1.13E-04 | 1.13E-04 | 6.20E-05 | 5.59E-06 | 8.08E-05 | 5.02E-05 | 5.02E-05 | 2.49E-05 |
| 821 | 257863.83 | 4084742.23 | 6.27E-05 | 9.07E-04 | 6.69E-04 | 6.69E-04 | 3.73E-04 | 9.52E-05 | 1.38E-04 | 1.04E-04 | 1.04E-04 | 5.74E-05 | 5.17E-06 | 7.48E-06 | 4.65E-05 | 4.65E-05 | 2.30E-05 |
| 822 | 257839.5 | 4084743.24 | 5.75E-05 | 8.32E-04 | 6.13E-04 | 6.13E-04 | 3.42E-04 | 8.73E-06 | 1.27E-04 | 9.57E-05 | 9.57E-05 | 5.26E-05 | 4.74E-06 | 6.86E-05 | 4.26E-05 | 4.26E-05 | 2.11E-05 |
| 823 | 257815.16 | 4084744.24 | 5.22E-05 | 7.55E-04 | 5.57E-04 | 5.57E-04 | 3.10E-04 | 7.92E-06 | 1.15E-04 | 8.69E-05 | 8.69E-05 | 4.78E-05 | 4.30E-06 | 6.23E-05 | 3.87E-05 | 3.87E-05 | 1.91E-05 |
| 824 | 257790.83 | 4084745.24 | 4.69E-05 | 6.79E-04 | 5.00E-04 | 5.00E-04 | 2.79E-04 | 7.12E-06 | 1.03E-04 | 7.81E-05 | 7.81E-05 | 4.30E-05 | 3.87E-06 | 5.60E-05 | 3.48E-05 | 3.48E-05 | 1.72E-05 |
| 825 | 257766.5 | 4084746.24 | 4.18E-05 | 6.05E-04 | 4.46E-04 | 4.46E-04 | 2.48E-04 | 6.35E-06 | 9.21E-05 | 6.96E-05 | 6.96E-05 | 3.83E-05 | 3.45E-06 | 4.98E-05 | 3.10E-05 | 3.10E-05 | 1.53E-05 |
| 826 | 257742.17 | 4084747.24 | 3.70E-05 | 5.35E-04 | 3.94E-04 | 3.94E-04 | 2.20E-04 | 5.61E-06 | 8.14E-05 | 6.15E-05 | 6.15E-05 | 3.38E-05 | 3.05E-05 | 4.41E-05 | 2.74E-05 | 2.74E-05 | 1.35E-05 |
| 827 | 257717.84 | 4084748.24 | 3.25E-05 | 4.70E-04 | 3.47E-04 | 3.47E-04 | 1.93E-04 | 4.93E-06 | 7.16E-05 | 5.41E-05 | 5.41E-05 | 2.97E-05 | 2.68E-06 | 3.88E-05 | 2.41E-05 | 2.41E-05 | 1.19E-05 |
| 828 | 257693.51 | 4084749.24 | 2.85E-05 | 4.13E-04 | 3.04E-04 | 3.04E-04 | 1.70E-04 | 4.33E-06 | 6.29E-05 | 4.75E-05 | 4.75E-05 | 2.61E-05 | 2.35E-06 | 3.40E-06 | 2.11E-05 | 2.11E-05 | 1.05E-05 |
| 829 | 257669.17 | 4084750.24 | 2.51E-05 | 3.63E-04 | 2.68E-04 | 2.68E-04 | 1.49E-04 | 3.81E-05 | 5.53E-05 | 4.18E-05 | 4.18E-05 | 2.30E-05 | 2.07E-06 | 2.99E-05 | 1.86E-05 | 1.86E-05 | 9.21E-05 |
| 830 | 257644.84 | 4084751.24 | 2.22E-05 | 3.22E-04 | 2.37E-04 | 2.37E-04 | 1.32E-04 | 3.37E-06 | 4.90E-05 | 3.70E-05 | 3.70E-05 | 2.03E-05 | 1.83E-05 | 2.65E-05 | 1.65E-05 | 1.65E-05 | 8.15E-06 |
| 831 | 257620.51 | 4084752.24 | 1.98E-05 | 2.87E-04 | 2.11E-04 | 2.11E-04 | 1.18E-04 | 3.01E-06 | 4.37E-05 | 3.30E-05 | 3.30E-05 | 1.81E-05 | 1.63E-06 | 2.36E-05 | 1.47E-05 | 1.47E-05 | 7.27E-06 |
| 832 | 257596.18 | 4084753.24 | 1.79E-05 | 2.58E-04 | 1.90E-04 | 1.90E-04 | 1.06E-04 | 2.71E-06 | 3.94E-05 | 2.97E-05 | 2.97E-05 | 1.63E-05 | 1.47E-06 | 2.13E-05 | 1.32E-05 | 1.32E-05 | 6.55E-05 |
| 833 | 257571.85 | 4084754.24 | 1.62E-05 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.65E-05 | 2.46E-06 | 3.58E-05 | 2.70E-05 | 2.70E-05 | 1.49E-05 | 1.34E-06 | 1.94E-05 | 

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 627 | 258065.67 | 4084909.08 | 5.40E-04 | 7.81E-03 | 5.75E-03 | 5.75E-03 | 3.21E-03 | 8.19E-05 | 1.19E-03 | 8.98E-04 | 8.98E-04 | 4.94E-04 | 4.45E-05 | 6.44E-04 | 4.00E-04 | 4.00E-04 | 1.98E-04 |
| 628 | 258041.34 | 4084910.09 | 5.38E-04 | 7.77E-03 | 5.73E-03 | 5.73E-03 | 3.19E-03 | 8.16E-05 | 1.18E-03 | 8.95E-04 | 8.95E-04 | 4.92E-04 | 4.43E-05 | 6.41E-04 | 3.98E-04 | 3.98E-04 | 1.97E-04 |
| 629 | 258017.01 | 4084911.09 | 5.35E-04 | 7.73E-03 | 5.70E-03 | 5.70E-03 | 3.18E-03 | 8.12E-05 | 1.18E-03 | 8.90E-04 | 8.90E-04 | 4.89E-04 | 4.41E-05 | 6.38E-04 | 3.96E-04 | 3.96E-04 | 1.96E-04 |
| 630 | 257992.68 | 4084912.09 | 5.31E-04 | 7.69E-03 | 5.67E-03 | 5.67E-03 | 3.16E-03 | 8.06E-05 | 1.17E-03 | 8.85E-04 | 8.85E-04 | 4.86E-04 | 4.38E-05 | 6.34E-04 | 3.94E-04 | 3.94E-04 | 1.95E-04 |
| 631 | 257968.34 | 4084913.09 | 5.27E-04 | 7.63E-03 | 5.62E-03 | 5.62E-03 | 3.13E-03 | 8.00E-05 | 1.16E-03 | 8.78E-04 | 8.78E-04 | 4.83E-04 | 4.35E-05 | 6.29E-04 | 3.91E-04 | 3.91E-04 | 1.93E-04 |
| 632 | 257944.01 | 4084914.09 | 5.23E-04 | 7.56E-03 | 5.57E-03 | 5.57E-03 | 3.11E-03 | 7.93E-05 | 1.15E-03 | 8.70E-04 | 8.70E-04 | 4.78E-04 | 4.31E-05 | 6.23E-04 | 3.87E-04 | 3.87E-04 | 1.92E-04 |
| 633 | 257919.68 | 4084915.09 | 5.17E-04 | 7.48E-03 | 5.51E-03 | 5.51E-03 | 3.07E-03 | 7.84E-05 | 1.14E-03 | 8.60E-04 | 8.60E-04 | 4.73E-04 | 4.26E-05 | 6.16E-04 | 3.83E-04 | 3.83E-04 | 1.89E-04 |
| 634 | 257895.35 | 4084916.09 | 5.10E-04 | 7.38E-03 | 5.44E-03 | 5.44E-03 | 3.03E-03 | 7.74E-05 | 1.12E-03 | 8.49E-04 | 8.49E-04 | 4.67E-04 | 4.20E-05 | 6.08E-04 | 3.78E-04 | 3.78E-04 | 1.87E-04 |
| 635 | 257871.02 | 4084917.09 | 5.02E-04 | 7.26E-03 | 5.35E-03 | 5.35E-03 | 2.98E-03 | 7.62E-05 | 1.11E-03 | 8.35E-04 | 8.35E-04 | 4.59E-04 | 4.14E-05 | 5.98E-04 | 3.72E-04 | 3.72E-04 | 1.84E-04 |
| 636 | 257846.68 | 4084918.09 | 4.92E-04 | 7.11E-03 | 5.24E-03 | 5.24E-03 | 2.92E-03 | 7.46E-05 | 1.08E-03 | 8.19E-04 | 8.19E-04 | 4.50E-04 | 4.05E-05 | 5.86E-04 | 3.64E-04 | 3.64E-04 | 1.80E-04 |
| 637 | 257822.35 | 4084919.09 | 4.80E-04 | 6.94E-03 | 5.12E-03 | 5.12E-03 | 2.85E-03 | 7.29E-05 | 1.05E-03 | 7.99E-04 | 7.99E-04 | 4.39E-04 | 3.96E-05 | 5.72E-04 | 3.55E-04 | 3.55E-04 | 1.76E-04 |
| 638 | 257798.02 | 4084920.09 | 4.66E-04 | 6.73E-03 | 4.96E-03 | 4.96E-03 | 2.77E-03 | 7.07E-05 | 1.03E-03 | 7.75E-04 | 7.75E-04 | 4.26E-04 | 3.84E-05 | 5.55E-04 | 3.45E-04 | 3.45E-04 | 1.71E-04 |
| 639 | 257773.69 | 4084921.09 | 4.48E-04 | 6.48E-03 | 4.78E-03 | 4.78E-03 | 2.66E-03 | 6.80E-05 | 9.88E-04 | 7.46E-04 | 7.46E-04 | 4.10E-04 | 3.70E-05 | 5.34E-04 | 3.32E-04 | 3.32E-04 | 1.64E-04 |
| 640 | 257749.36 | 4084922.09 | 4.28E-04 | 6.18E-03 | 4.56E-03 | 4.56E-03 | 2.54E-03 | 6.49E-05 | 9.42E-04 | 7.12E-04 | 7.12E-04 | 3.91E-04 | 3.52E-05 | 5.10E-04 | 3.17E-04 | 3.17E-04 | 1.57E-04 |
| 641 | 257725.03 | 4084923.09 | 4.02E-04 | 5.82E-03 | 4.29E-03 | 4.29E-03 | 2.39E-03 | 6.11E-05 | 8.87E-04 | 6.70E-04 | 6.70E-04 | 3.68E-04 | 3.32E-05 | 4.80E-04 | 2.98E-04 | 2.98E-04 | 1.47E-04 |
| 642 | 257700.69 | 4084924.09 | 3.72E-04 | 5.38E-03 | 3.96E-03 | 3.96E-03 | 2.21E-03 | 5.64E-05 | 8.19E-04 | 6.19E-04 | 6.19E-04 | 3.40E-04 | 3.06E-05 | 4.43E-04 | 2.75E-04 | 2.75E-04 | 1.36E-04 |
| 643 | 257676.36 | 4084925.09 | 3.34E-04 | 4.83E-03 | 3.56E-03 | 3.56E-03 | 1.99E-03 | 5.07E-05 | 7.36E-04 | 5.58E-04 | 5.56E-04 | 3.06E-04 | 2.75E-05 | 3.98E-04 | 2.47E-04 | 2.47E-04 | 1.23E-04 |
| 644 | 257652.03 | 4084926.09 | 2.88E-04 | 4.17E-03 | 3.07E-03 | 3.07E-03 | 1.71E-03 | 4.37E-05 | 6.35E-04 | 4.80E-04 | 4.80E-04 | 2.64E-04 | 2.38E-05 | 3.44E-04 | 2.13E-04 | 2.13E-04 | 1.06E-04 |
| 645 | 257627.7 | 4084927.09 | 2.32E-04 | 3.35E-03 | 2.47E-03 | 2.47E-03 | 1.38E-03 | 3.51E-05 | 5.10E-04 | 3.85E-04 | 3.85E-04 | 2.12E-04 | 1.91E-05 | 2.76E-04 | 1.72E-04 | 1.72E-04 | 8.49E-05 |
| 646 | 257603.37 | 4084928.09 | 1.66E-04 | 2.40E-03 | 1.77E-03 | 1.77E-03 | 9.84E-04 | 2.51E-05 | 3.65E-04 | 2.78E-04 | 2.78E-04 | 1.52E-04 | 1.37E-05 | 1.97E-04 | 1.23E-04 | 1.23E-04 | 6.07E-05 |
| 647 | 257579.03 | 4084929.09 | 1.04E-04 | 1.50E-03 | 1.10E-03 | 1.10E-03 | 6.15E-04 | 1.57E-05 | 2.28E-04 | 1.72E-04 | 1.72E-04 | 9.47E-05 | 8.53E-06 | 1.23E-04 | 7.67E-05 | 7.67E-05 | 3.79E-05 |
| 648 | 257554.7 | 4084930.09 | 7.00E-05 | 1.01E-03 | 7.46E-04 | 7.46E-04 | 4.16E-04 | 1.06E-05 | 1.54E-04 | 1.16E-04 | 1.16E-04 | 6.40E-05 | 5.77E-06 | 8.34E-05 | 5.18E-05 | 5.18E-05 | 2.57E-05 |
| 649 | 258374.7 | 4084878.79 | 3.63E-04 | 5.25E-03 | 3.87E-03 | 3.87E-03 | 2.16E-03 | 5.51E-05 | 8.00E-04 | 6.04E-04 | 6.04E-04 | 3.32E-04 | 2.99E-05 | 4.33E-04 | 2.69E-04 | 2.69E-04 | 1.33E-04 |
| 650 | 258332.29 | 4084873.1 | 3.56E-04 | 5.14E-03 | 3.79E-03 | 3.79E-03 | 2.11E-03 | 5.40E-05 | 7.84E-04 | 5.92E-04 | 5.92E-04 | 3.25E-04 | 2.93E-05 | 4.24E-04 | 2.63E-04 | 2.63E-04 | 1.30E-04 |
| 651 | 258307.96 | 4084874.1 | 3.62E-04 | 5.23E-03 | 3.86E-03 | 3.86E-03 | 2.15E-03 | 5.49E-05 | 7.97E-04 | 6.02E-04 | 6.02E-04 | 3.31E-04 | 2.98E-05 | 4.31E-04 | 2.68E-04 | 2.68E-04 | 1.33E-04 |
| 652 | 258283.63 | 4084875.1 | 3.66E-04 | 5.29E-03 | 3.90E-03 | 3.90E-03 | 2.17E-03 | 5.55E-05 | 8.06E-04 | 6.09E-04 | 6.09E-04 | 3.35E-04 | 3.01E-05 | 4.36E-04 | 2.71E-04 | 2.71E-04 | 1.34E-04 |
| 653 | 258259.3 | 4084876.1 | 3.69E-04 | 5.33E-03 | 3.93E-03 | 3.93E-03 | 2.19E-03 | 5.59E-05 | 8.12E-04 | 6.13E-04 | 6.13E-04 | 3.37E-04 | 3.04E-05 | 4.39E-04 | 2.73E-04 | 2.73E-04 | 1.35E-04 |
| 654 | 258234.97 | 4084877.1 | 3.70E-04 | 5.36E-03 | 3.95E-03 | 3.95E-03 | 2.20E-03 | 5.62E-05 | 8.18E-04 | 6.17E-04 | 6.17E-04 | 3.39E-04 | 3.05E-05 | 4.42E-04 | 2.74E-04 | 2.74E-04 | 1.36E-04 |
| 655 | 258210.64 | 4084878.1 | 3.72E-04 | 5.38E-03 | 3.96E-03 | 3.96E-03 | 2.21E-03 | 5.64E-05 | 8.19E-04 | 6.19E-04 | 6.19E-04 | 3.40E-04 | 3.06E-05 | 4.43E-04 | 2.75E-04 | 2.75E-04 | 1.36E-04 |
| 656 | 258186.3 | 4084879.1 | 3.72E-04 | 5.39E-03 | 3.97E-03 | 3.97E-03 | 2.21E-03 | 5.65E-05 | 8.20E-04 | 6.20E-04 | 6.20E-04 | 3.41E-04 | 3.07E-05 | 4.44E-04 | 2.76E-04 | 2.76E-04 | 1.36E-04 |
| 657 | 258161.97 | 4084880.1 | 3.72E-04 | 5.39E-03 | 3.97E-03 | 3.97E-03 | 2.21E-03 | 5.65E-05 | 8.21E-04 | 6.20E-04 | 6.20E-04 | 3.41E-04 | 3.07E-05 | 4.44E-04 | 2.76E-04 | 2.76E-04 | 1.37E-04 |
| 658 | 258137.64 | 4084881.1 | 3.72E-04 | 5.36E-03 | 3.97E-03 | 3.97E-03 | 2.21E-03 | 5.65E-05 | 8.20E-04 | 6.19E-04 | 6.19E-04 | 3.40E-04 | 3.07E-05 | 4.44E-04 | 2.76E-04 | 2.76E-04 | 1.36E-04 |
| 659 | 258113.31 | 4084882.11 | 3.71E-04 | 5.37E-03 | 3.96E-03 | 3.96E-03 | 2.21E-03 | 5.63E-05 | 8.18E-04 | 6.18E-04 | 6.18E-04 | 3.40E-04 | 3.06E-05 | 4.43E-04 | 2.75E-04 | 2.75E-04 | 1.36E-04 |
| 660 | 258088.98 | 4084883.11 | 3.70E-04 | 5.35E-03 | 3.94E-03 | 3.94E-03 | 2.20E-03 | 5.61E-05 | 8.15E-04 | 6.16E-04 | 6.16E-04 | 3.39E-04 | 3.05E-05 | 4.41E-04 | 2.74E-04 | 2.74E-04 | 1.36E-04 |
| 661 | 258064.64 | 4084884.11 | 3.68E-04 | 5.32E-03 | 3.92E-03 | 3.92E-03 | 2.19E-03 | 5.59E-05 | 8.11E-04 | 6.13E-04 | 6.13E-04 | 3.37E-04 | 3.03E-05 | 4.39E-04 | 2.73E-04 | 2.73E-04 | 1.35E-04 |
| 662 | 258040.31 | 4084885.11 | 3.66E-04 | 5.29E-03 | 3.90E-03 | 3.90E-03 | 2.17E-03 | 5.55E-05 | 8.06E-04 | 6.09E-04 | 6.09E-04 | 3.35E-04 | 3.01E-05 | 4.36E-04 | 2.71E-04 | 2.71E-04 | 1.34E-04 |
| 663 | 258015.98 | 4084886.11 | 3.63E-04 | 5.25E-03 | 3.87E-03 | 3.87E-03 | 2.16E-03 | 5.51E-05 | 7.99E-04 | 6.04E-04 | 6.04E-04 | 3.32E-04 | 2.99E-05 | 4.32E-04 | 2.69E-04 | 2.69E-04 | 1.33E-04 |
| 664 | 257991.65 | 4084887.11 | 3.59E-04 | 5.19E-03 | 3.83E-03 | 3.83E-03 | 2.13E-03 | 5.45E-05 | 7.91E-04 | 5.98E-04 | 5.98E-04 | 3.29E-04 | 2.96E-05 | 4.28E-04 | 2.66E-04 | 2.66E-04 | 1.32E-04 |
| 665 | 257967.32 | 4084888.11 | 3.55E-04 | 5.13E-03 | 3.78E-03 | 3.78E-03 | 2.11E-03 | 5.39E-05 | 7.82E-04 | 5.91E-04 | 5.91E-04 | 3.25E-04 | 2.92E-05 | 4.23E-04 | 2.63E-04 | 2.63E-04 | 1.30E-04 |
| 666 | 257942.99 | 4084889.11 | 3.50E-04 | 5.06E-03 | 3.73E-03 | 3.73E-03 | 2.08E-03 | 5.31E-05 | 7.71E-04 | 5.82E-04 | 5.82E-04 | 3.20E-04 | 2.88E-05 | 4.17E-04 | 2.59E-04 | 2.59E-04 | 1.28E-04 |
| 667 | 257918.65 | 4084890.11 | 3.44E-04 | 4.97E-03 | 3.66E-03 | 3.66E-03 | 2.04E-03 | 5.22E-05 | 7.57E-04 | 5.72E-04 | 5.72E-04 | 3.15E-04 | 2.83E-05 | 4.10E-04 | 2.55E-04 | 2.55E-04 | 1.26E-04 |
| 668 | 257894.32 | 4084891.11 | 3.37E-04 | 4.87E-03 | 3.59E-03 | 3.59E-03 | 2.00E-03 | 5.11E-05 | 7.42E-04 | 5.60E-04 | 5.60E-04 | 3.08E-04 | 2.78E-05 | 4.01E-04 | 2.49E-04 | 2.49E-04 | 1.23E-04 |
| 669 | 257869.99 | 4084892.11 | 3.28E-04 | 4.75E-03 | 3.50E-03 | 3.50E-03 | 1.95E-03 | 4.98E-05 | 7.24E-04 | 5.47E-04 | 5.47E-04 | 3.01E-04 | 2.71E-05 | 3.92E-04 | 2.43E-04 | 2.43E-04 | 1.20E-04 |
| 670 | 257845.66 | 4084893.11 | 3.19E-04 | 4.61E-03 | 3.40E-03 | 3.40E-03 | 1.89E-03 | 4.84E-05 | 7.02E-04 | 5.30E-04 | 5.30E-04 | 2.92E-04 | 2.63E-05 | 3.80E-04 | 2.36E-04 | 2.36E-04 | 1.17E-04 |
| 671 | 257821.33 | 4084894.11 | 3.07E-04 | 4.44E-03 | 3.27E-03 | 3.27E-03 | 1.83E-03 | 4.66E-05 | 6.77E-04 | 5.11E-04 | 5.11E-04 | 2.81E-04 | 2.53E-05 | 3.66E-04 | 2.27E-04 | 2.27E-04 | 1.13E-04 |
| 672 | 257796.99 | 4084895.11 | 2.94E-04 | 4.25E-03 | 3.13E-03 | 3.13E-03 | 1.74E-03 | 4.45E-05 | 6.47E-04 | 4.89E-04 | 4.89E-04 | 2.69E-04 | 2.42E-05 | 3.50E-04 | 2.17E-04 | 2.17E-04 | 1.08E-04 |
| 673 | 257772.66 | 4084896.11 | 2.78E-04 | 4.01E-03 | 2.96E-03 | 2.96E-03 | 1.65E-03 | 4.21E-05 | 6.12E-04 | 4.62E-04 | 4.62E-04 | 2.54E-04 | 2.29E-05 | 3.31E-04 | 2.06E-04 | 2.06E-04 | 1.02E-04 |
| 674 | 257748.33 | 4084897.11 | 2.59E-04 | 3.74E-03 | 2.76E-03 | 2.78E-03 | 1.54E-03 | 3.93E-05 | 5.70E-04 | 4.31E-04 | 4.31E-04 | 2.37E-04 | 2.13E-05 | 3.09E-04 | 1.92E-04 | 1.92E-04 | 9.49E-05 |
| 675 | 257724 | 4084898.11 | 2.37E-04 | 3.43E-03 | 2.53E-03 | 2.53E-03 | 1.41E-03 | 3.60E-05 | 5.22E-04 | 3.94E-04 | 3.94E-04 | 2.17E-04 | 1.95E-06 | 2.82E-04 | 1.75E-04 | 1.75E-04 | 8.69E-05 |
| 676 | 257699.67 | 4084899.11 | 2.12E-04 | 3.06E-03 | 2.26E-03 | 2.28E-03 | 1.26E-03 | 3.21E-05 | 4.66E-04 | 3.52E-04 | 3.52E-04 | 1.94E-04 | 1.74E-05 | 2.52E-04 | 1.57E-04 | 1.57E-04 | 7.76E-05 |
| 677 | 257675.34 | 4084900.11 | 1.83E-04 | 2.64E-03 | 1.95E-03 | 1.95E-03 | 1.09E-03 | 2.77E-05 | 4.02E-04 | 3.04E-04 | 3.04E-04 | 1.67E-04 | 1.51E-05 | 2.18E-04 | 1.35E-04 | 1.35E-04 | 6.70E-05 |
| 678 | 257651 | 4084901.11 | 1.50E-04 | 2.18E-03 | 1.60E-03 | 1.60E-03 | 8.94E-04 | 2.28E-05 | 3.31E-04 | 2.50E-04 | 2.50E-04 | 1.38E-04 | 1.24E-05 | 1.79E-04 | 1.11E-04 | 1.11E-04 | 5.51E-05 |
| 679 | 257626.67 | 4084902.11 | 1.17E-04 | 1.69E-03 | 1.24E-03 | 1.24E-03 | 6.92E-04 | 1.77E-05 | 2.57E-04 | 1.94E-04 | 1.94E-04 | 1.07E-04 | 9.60E-06 | 1.39E-04 | 8.63E-05 | 8.63E-05 | 4.27E-05 |
| 680 | 257602.34 | 4084903.11 | 8.51E-05 | 1.23E-03 | 9.07E-04 | 9.07E-04 | 5.06E-04 | 1.29E-05 | 1.87E-04 | 1.42E-04 | 1.42E-04 | 7.79E-05 | 7.01E-06 | 1.01E-04 | 6.30E-05 | 6.30E-05 | 3.12E-05 |
| 681 | 257578.01 | 4084904.11 | 6.19E-05 | 8.95E-04 | 6.60E-04 | 6.60E-04 | 3.68E-04 | 9.40E-06 | 1.36E-04 | 1.03E-04 | 1.03E-04 | 5.67E-05 | 5.10E-06 | 7.38E-05 | 4.58E-05 | 4.58E-05 | 2.27E-05 |
| 682 | 257553.68 | 4084905.11 | 4.82E-05 | 6.98E-04 | 5.14E-04 | 5.14E-04 | 2.87E-04 | 7.32E-06 | 1.06E-04 | 8.03E-05 | 8.03E-05 | 4.41E-05 | 3.98E-06 | 5.75E-05 | 3.57E-05 | 3.57E-05 | 1.77E-05 |
| 683 | 258373.67 | 4084853.81 | 2.79E-04 | 4.03E-03 | 2.97E-03 | 2.97E-03 | 1.66E-03 | 4.23E-05 | 6.14E-04 | 4.64E-04 | 4.64E-04 | 2.55E-04 | 2.30E-05 | 3.32E-04 | 2.06E-04 | 2.06E-04 | 1.02E-04 |
| 684 | 258417.76 | 4084884.76 | 3.15E-04 | 4.55E-03 | 3.36E-03 | 3.36E-03 | 1.87E-03 | 4.78E-05 | 6.94E-04 | 5.24E-04 | 5.24E-04 | 2.88E-04 | 2.60E-05 | 3.75E-04 | 2.33E-04 | 2.33E-04 | 1.15E-04 |
| 685 | 258331.27 | 4084848.12 | 2.71E-04 | 3.92E-03 | 2.89E-03 | 2.89E-03 | 1.61E-03 | 4.12E-05 | 5.98E-04 | 4.51E-04 | 4.51E-04 | 2.48E-04 | 2.24E-06 | 3.23E-04 | 2.01E-04 | 2.01E-04 | 9.94E-05 |
| 686 | 258306.94 | 4084849.12 | 2.75E-04 | 3.97E-03 | 2.93E-03 | 2.93E-03 | 1.63E-03 | 4.17E-05 | 6.05E-04 | 4.57E-04 | 4.57E-04 | 2.51E-04 | 2.26E-06 | 3.28E-04 | 2.03E-04 | 2.03E-04 | 1.01E-04 |
| 687 | 258282.6 | 4084850.12 | 2.77E-04 | 4.01E-03 | 2.95E-03 | 2.95E-03 | 1.65E-03 | 4.21E-05 | 6.11E-04 | 4.61E-04 | 4.61E-04 | 2.54E-04 | 2.28E-05 | 3.30E-04 | 2.05E-04 | 2.05E-04 | 1.02E-04 |
| 688 | 258258.27 | 4084851.12 | 2.79E-04 | 4.03E-03 | 2.97E-03 | 2.97E-03 | 1.66E-03 | 4.23E-05 | 6.14E-04 | 4.64E-04 | 4.64E-04 | 2.55E-04 | 2.30E-05 | 3.32E-04 | 2.06E-04 | 2.06E-04 | 1.02E-04 |
| 689 | 258233.94 | 4084852.12 | 2.80E-04 | 4.04E-03 | 2.98E-03 | 2.98E-03 | 1.66E-03 | 4.24E-05 | 6.16E-04 | 4.65E-04 | 4.65E-04 | 2.56E-04 | 2.31E-05 | 3.33E-04 | 2.07E-04 | 2.07E-04 | 1.03E-04 |
| 690 | 258209.61 | 4084853.13 | 2.80E-04 | 4.05E-03 | 2.99E-03 | 2.99E-03 | 1.66E-03 | 4.25E-05 | 6.17E-04 | 4.66E-04 | 4.66E-04 | 2.56E-04 | 2.31E-05 | 3.34E-04 | 2.07E-04 | 2.07E-04 | 1.03E-04 |
| 691 | 258185.28 | 4084854.13 | 2.80E-04 | 4.05E-03 | 2.99E-03 | 2.99E-03 | 1.66E-03 | 4.25E-05 | 6.17E-04 | 4.66E-04 | 4.66E-04 | 2.56E-04 | 2.31E-05 | 3.34E-04 | 2.07E-04 | 2.07E-04 | 1.03E-04 |
| 692 | 258160.94 | 4084855.13 | 2.80E-04 | 4.05E-03 | 2.98E-03 | 2.98E-03 | 1.66E-03 | 4.24E-05 | 6.16E-04 | 4.66E-04 | 4.66E-04 | 2.56E-04 | 2.31E-05 | 3.33E-04 | 2.07E-04 | 2.07E-04 | 1.03E-04 |
| 693 | 258136.61 | 4084856.13 | 2.79E-04 | 4.03E-03 | 2.97E-03 | 2.97E-03 | 1.66E-03 | 4.23E-05 | 6.14E-04 | 4.64E-04 | 4.64E-04 | 2.55E-04 | 2.30E-05 | 3.32E-04 | 2.06E-04 | 2.06E-04 | 1.02E-04 |
| 694 | 258112.28 | 4084857.13 | 2.78E-04 | 4.01E-03 | 2.96E-03 | 2.98E-03 | 1.65E-03 | 4.21E-05 | 6.12E-04 | 4.62E-04 | 4.62E-04 | 2.54E-04 | 2.29E-05 | 3.31E-04 | 2.06E-04 | 2.06E-04 | 1.02E-04 |
| 695 | 258087.95 | 4084858.13 | 2.76E-04 | 3.99E-03 | 2.94E-03 | 2.94E-03 | 1.64E-03 | 4.19E-05 | 6.08E-04 | 4.59E-04 | 4.59E-04 | 2.52E-04 | 2.27E-05 | 3.29E-04 | 2.04E-04 | 2.04E-04 | 1.01E-04 |
| 696 | 258063.62 | 4084859.13 | 2.74E-04 | 3.96E-03 | 2.92E-03 | 2.92E-03 | 1.63E-03 | 4.16E-05 | 6.03E-04 | 4.56E-04 | 4.56E-04 | 2.51E-04 | 2.26E-05 | 3.26E-04 | 2.03E-04 | 2.03E-04 | 1.00E-04 |
| 697 | 258039.29 | 4084860.13 | 2.71E-04 | 3.92E-03 | 2.89E-03 | 2.89E-03 | 1.61E-03 | 4.12E-05 | 5.98E-04 | 4.51E-04 | 4.51E-04 | 2.48E-04 | 2.24E-05 | 3.23E-04 | 2.01E-04 | 2.01E-04 | 9.94E-05 |
| 698 | 258014.95 | 4084861.13 | 2.68E-04 | 3.88E-03 | 2.86E-03 | 2.86E-03 | 1.59E-03 | 4.07E-05 | 5.91E-04 | 4.46E-04 | 4.46E-04 | 2.45E-04 | 2.21E-05 | 3.20E-04 | 1.99E-04 | 1.99E-04 | 9.83E-05 |
| 699 | 257990.62 | 4084862.13 | 2.64E-04 | 3.82E-03 | 2.82E-03 | 2.82E-03 | 1.57E-03 | 4.01E-05 | 5.82E-04 | 4.40E-04 | 4.40E-04 | 2.42E-04 | 2.18E-05 | 3.15E-04 | 1.96E-04 | 1.96E-04 | 9.69E-05 |
| 700 | 257966.29 | 4084863.13 | 2.60E-04 | 3.78E-03 | 2.77E-03 | 2.77E-03 | 1.54E-03 | 3.94E-05 | 5.73E-04 | 4.33E-04 | 4.33E-04 | 2.38E-04 | 2.14E-05 | 3.10E-04 | 1.92E-04 | 1.92E-04 | 9.53E-05 |
| 701 | 257941.96 | 4084864.13 | 2.55E-04 | 3.68E-03 | 2.72E-03 | 2.72E-03 | 1.51E-03 | 3.87E-05 | 5.61E-04 | 4.24E-04 | 4.24E-04 | 2.33E-04 | 2.10E-05 | 3.04E-04 | 1.89E-04 | 1.89E-04 | 9.34E-05 |
| 702 | 257917.63 | 4084865.13 | 2.49E-04 | 3.60E-03 | 2.65E-03 | 2.65E-03 | 1.48E-03 | 3.77E-05 | 5.48E-04 | 4.14E-04 | 4.14E-04 | 2.28E-04 | 2.05E-05 | 2.96E-04 | 1.84E-04 | 1.84E-04 | 9.11E-05 |
| 703 | 257893.29 | 4084866.13 | 2.42E-04 | 3.49E-03 | 2.58E-03 | 2.58E-03 | 1.44E-03 | 3.67E-05 | 5.32E-04 | 4.02E-04 | 4.02E-04 | 2.21E-04 | 1.99E-05 | 2.88E-04 | 1.79E-04 | 1.79E-04 | 8.85E-05 |
| 704 | 257868.96 | 4084867.13 | 2.33E-04 | 3.38E-03 | 2.49E-03 | 2.49E-03 | 1.39E-03 | 3.54E-05 | 5.14E-04 | 3.88E-04 | 3.88E-04 | 2.14E-04 | 1.92E-05 | 2.78E-04 | 1.73E-04 | 1.73E-04 | 8.55E-05 |
| 705 | 257844.63 | 4084868.13 | 2.24E-04 | 3.24E-03 | 2.39E-03 | 2.39E-03 | 1.33E-03 | 3.40E-05 | 4.93E-04 | 3.73E-04 | 3.73E-04 | 2.05E-04 | 1.85E-05 | 2.67E-04 | 1.66E-04 | 1.66E-04 | 8.21E-05 |
| 706 | 257820.3 | 4084869.13 | 2.13E-04 | 3.08E-03 | 2.27E-03 | 2.27E-03 | 1.27E-03 | 3.23E-05 | 4.69E-04 | 3.54E-04 | 3.54E-04 | 1.95E-04 | 1.76E-05 | 2.54E-04 | 1.58E-04 | 1.58E-04 | 7.81E-05 |
| 707 | 257795.97 | 4084870.13 | 2.00E-04 | 2.90E-03 | 2.14E-03 | 2.14E-03 | 1.19E-03 | 3.04E-05 | 4.42E-04 | 3.34E-04 | 3.34E-04 | 1.83E-04 | 1.65E-05 | 2.39E-04 | 1.48E-04 | 1.48E-04 | 7.35E-05 |
| 708 | 257771.64 | 4084871.13 | 1.86E-04 | 2.69E-03 | 1.98E-03 | 1.98E-03 | 1.11E-03 | 2.83E-05 | 4.10E-04 | 3.10E-04 | 3.10E-04 | 1.70E-04 | 1.53E-05 | 2.22E-04 | 1.38E-04 | 1.38E-04 | 6.82E-05 |
| 709 | 257747.3 | 4084872.13 | 1.70E-04 | 2.48E-03 | 1.81E-03 | 1.81E-03 | 1.01E-03 | 2.58E-05 | 3.75E-04 | 2.83E-04 | 2.83E-04 | 1.56E-04 | 1.40E-05 | 2.03E-04 | 1.26E-04 | 1.26E-04 | 6.23E-05 |
| 710 | 257722.97 | 4084873.13 | 1.52E-04 | 2.20E-03 | 1.62E-03 | 1.62E-03 | 9.04E-04 | 2.31E-05 | 3.35E-04 | 2.53E-04 | 2.53E-04 | 1.39E-04 | 1.25E-05 | 1.81E-04 | 1.13E-04 | 1.13E-04 | 5.57E-05 |
| 711 | 257698.64 | 4084874.13 | 1.32E-04 | 1.92E-03 | 1.41E-03 | 1.41E-03 | 7.87E-04 | 2.01E-05 | 2.92E-04 | 2.20E-04 | 2.20E-04 | 1.21E-04 | 1.09E-05 | 1.58E-04 | 9.81E-05 | 9.81E-05 | 4.85E-05 |
| 712 | 257674.31 | 4084875.13 | 1.12E-04 | 1.61E-03 | 1.19E-03 | 1.19E-03 | 6.63E-04 | 1.69E-05 | 2.48E-04 | 1.86E-04 | 1.86E-04 | 1.02E-04 | 9.19E-06 | 1.33E-04 | 8.26E-05 | 8.26E-05 | 4.09E-05 |
| 713 | 257649.98 | 4084876.13 | 9.05E-05 | 1.31E-03 | 9.65E-04 | 9.65E-04 | 5.38E-04 | 1.37E-05 | 1.99E-04 | 1.51E-04 | 1.51E-04 | 8.28E-05 | 7.46E-06 | 1.08E-04 | 6.70E-05 | 6.70E-05 | 3.32E-05 |
| 714 | 257625.64 | 4084877.13 | 7.10E-05 | 1.03E-03 | 7.57E-04 | 7.57E-04 | 4.22E-04 | 1.08E-05 | 1.57E-04 | 1.18E-04 | 1.18E-04 | 6.50E-05 | 5.86E-06 | 8.47E-05 | 5.26E-05 | 5.26E-05 | 2.60E-05 |
| 715 | 257601.31 | 4084878.13 | 5.52E-05 | 7.98E-04 | 5.88E-04 | 5.88E-04 | 3.28E-04 | 8.37E-06 | 1.22E-04 | 9.18E-05 | 9.18E-05 | 5.05E-05 | 4.55E-06 | 6.58E-05 | 4.08E-05 | 4.08E-05 | 2.02E-06 |
| 716 | 257576.98 | 4084879.13 | 4.39E-05 | 6.35E-04 | 4.68E-04 | 4.68E-04 | 2.61E-04 | 6.68E-06 | 9.67E-05 | 7.31E-05 | 7.31E-05 | 4.02E-05 | 3.62E-06 | 5.23E-05 | 3.25E-05 | 3.25E-05 | 1.61E-05 |
| 717 | 257552.65 | 4084880.13 | 3.64E-05 | 5.27E-04 | 3.88E-04 | 3.88E-04 | 2.17E-04 | 5.53E-06 | 8.03E-05 | 6.06E-05 | 6.06E-05 | 3.33E-05 | 3.00E-06 | 4.34E-05 | 2.70E-05 | 2.70E-05 | 1.34E-05 |
| 718 | 258372.65 | 4084828.84 | 2.23E-04 | 3.23E-03 | 2.38E-03 | 2.38E-03 | 1.33E-03 | 3.39E-05 | 4.92E-04 | 3.72E-04 | 3.72E-04 | 2.04E-04 | 1.84E-05 | 2.66E-04 | 1.65E-04 | 1.65E-04 | 8.19E-05 |
| 719 | 258408.79 | 4084842.22 | 2.36E-04 | 3.41E-03 | 2.51E-03 | 2.51E-03 | 1.40E-03 | 3.58E-05 | 5.19E-04 | 3.92E-04 | 3.92E-04 | 2.16E-04 | 1.94E-05 | 2.81E-04 | 1.75E-04 | 1.75E-04 | 8.64E-05 |
| 720 | 258434.81 | 4084856.47 | 2.54E-04 | 3.68E-03 | 2.71E-03 | 2.71E-03 | 1.51E-03 | 3.85E-05 | 5.61E-04 | 4.23E-04 | 4.23E-04 | 2.33E-04 | 2.10E-05 | 3.03E-04 | 1.88E-04 | 1.88E-04 | 9.33E-06 |
| 721 | 258330.24 | 4084823.14 | 2.17E-04 | 3.14E-03 | 2.31E-03 | 2.31E-03 | 1.29E-03 | 3.29E-05 | 4.78E-04 | 3.61E-04 | 3.61E-04 | 1.99E-04 | 1.79E-05 | 2.59E-04 | 1.61E-04 | 1.61E-04 | 7.95E-05 |
| 722 | 258305.91 | 4084824.15 | 2.19E-04 | 3.17E-03 | 2.34E-03 | 2.34E-03 | 1.30E-03 | 3.32E-05 | 4.83E-04 | 3.65E-04 | 3.65E-04 | 2.00E-04 | 1.81E-05 | 2.61E-04 | 1.62E-04 | 1.62E-04 | 8.03E-05 |
| 723 | 258281.58 | 4084825.15 | 2.20E-04 | 3.19E-03 | 2.35E-03 | 2.35E-03 | 1.31E-03 | 3.34E-05 | 4.85E-04 | 3.67E-04 | 3.67E-04 | 2.02E-04 | 1.82E-05 | 2.63E-04 | 1.63E-04 | 1.63E-04 | 8.08E-06 |
| 724 | 258257.25 | 4084826.15 | 2.21E-04 | 3.20E-03 | 2.36E-03 | 2.36E-03 | 1.31E-03 | 3.35E-05 | 4.87E-04 | 3.68E-04 | 3.68E-04 | 2.02E-04 | 1.82E-05 | 2.64E-04 | 1.64E-04 | 1.64E-04 | 8.10E-05 |
| 725 | 258232.91 | 4084827.15 | 2.21E-04 | 3.20E-03 | 2.36E-03 | 2.36E-03 | 1.32E-03 | 3.36E-05 | 4.88E-04 | 3.69E-04 | 3.69E-04 | 2.03E-04 | 1.83E-05 | 2.64E-04 | 1.64E-04 | 1.64E-04 | 8.12E-05 |
| 726 | 258208.58 | 4084828.15 | 2.21E-04 | 3.20E-03 | 2.36E-03 | 2.36E-03 | 1.32E-03 | 3.38E-05 | 4.88E-04 | 3.69E-04 | 3.69E-04 | 2.03E-04 | 1.82E-05 | 2.64E-04 | 1.64E-04 | 1.64E-04 | 8.12E-05 |
| 727 | 258184.25 | 4084829.15 | 2.21E-04 | 3.20E-03 | 2.36E-03 | 2.36E-03 | 1.31E-03 | 3.35E-05 | 4.87E-04 | 3.68E-04 | 3.68E-04 | 2.02E-04 | 1.82E-05 | 2.63E-04 | 1.64E-04 | 1.64E-04 | 8.10E-05 |
| 728 | 258159.92 | 4084830.15 | 2.20E-04 | 3.19E-03 | 2.35E-03 | 2.35E-03 | 1.31E-03 | 3.34E-05 | 4.85E-04 | 3.67E-04 | 3.67E-04 | 2.02E-04 | 1.82E-05 | 2.63E-04 | 1.63E

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 522 | 259802.88 | 4085238.38 | 4.12E-06 | 5.97E-05 | 4.40E-05 | 4.40E-05 | 2.45E-05 | 6.26E-07 | 9.09E-06 | 6.87E-06 | 6.87E-06 | 3.77E-06 | 3.40E-07 | 4.92E-06 | 3.05E-06 | 3.05E-06 | 1.51E-06 |
| 523 | 259794.17 | 4085261.53 | 4.08E-06 | 5.90E-05 | 4.35E-05 | 4.35E-05 | 2.43E-05 | 6.19E-07 | 8.99E-06 | 6.79E-06 | 6.79E-06 | 3.74E-06 | 3.36E-07 | 4.87E-06 | 3.02E-06 | 3.02E-06 | 1.50E-06 |
| 524 | 259785.47 | 4085284.68 | 4.03E-06 | 5.82E-05 | 4.29E-05 | 4.29E-05 | 2.39E-05 | 6.11E-07 | 8.87E-06 | 6.70E-06 | 6.70E-06 | 3.68E-06 | 3.32E-07 | 4.80E-06 | 2.98E-06 | 2.98E-06 | 1.48E-06 |
| 525 | 259776.76 | 4085307.82 | 3.96E-06 | 5.73E-05 | 4.22E-05 | 4.22E-05 | 2.36E-05 | 6.01E-07 | 8.73E-06 | 6.60E-06 | 6.60E-06 | 3.63E-06 | 3.27E-07 | 4.72E-06 | 2.93E-06 | 2.93E-06 | 1.45E-06 |
| 526 | 259768.05 | 4085330.97 | 3.90E-06 | 5.63E-05 | 4.15E-05 | 4.15E-05 | 2.32E-05 | 5.91E-07 | 8.58E-06 | 6.48E-06 | 6.48E-06 | 3.56E-06 | 3.21E-07 | 4.64E-06 | 2.88E-06 | 2.88E-06 | 1.43E-06 |
| 527 | 259759.35 | 4085354.12 | 3.82E-06 | 5.53E-05 | 4.08E-05 | 4.08E-05 | 2.27E-05 | 5.80E-07 | 8.43E-06 | 6.36E-06 | 6.36E-06 | 3.50E-06 | 3.15E-07 | 4.56E-06 | 2.83E-06 | 2.83E-06 | 1.40E-06 |
| 528 | 259750.64 | 4085377.26 | 3.75E-06 | 5.43E-05 | 4.00E-05 | 4.00E-05 | 2.23E-05 | 5.70E-07 | 8.27E-06 | 6.25E-06 | 6.25E-06 | 3.44E-06 | 3.09E-07 | 4.48E-06 | 2.78E-06 | 2.78E-06 | 1.38E-06 |
| 529 | 259741.94 | 4085400.41 | 3.68E-06 | 5.33E-05 | 3.93E-05 | 3.93E-05 | 2.19E-05 | 5.59E-07 | 8.12E-06 | 6.13E-06 | 6.13E-06 | 3.37E-06 | 3.04E-07 | 4.39E-06 | 2.73E-06 | 2.73E-06 | 1.35E-06 |
| 530 | 259733.23 | 4085423.56 | 3.62E-06 | 5.23E-05 | 3.86E-05 | 3.86E-05 | 2.15E-05 | 5.49E-07 | 7.97E-06 | 6.02E-06 | 6.02E-06 | 3.31E-06 | 2.98E-07 | 4.31E-06 | 2.68E-06 | 2.68E-06 | 1.33E-06 |
| 531 | 259724.52 | 4085446.71 | 3.55E-06 | 5.14E-05 | 3.79E-05 | 3.79E-05 | 2.11E-05 | 5.39E-07 | 7.83E-06 | 5.91E-06 | 5.91E-06 | 3.25E-06 | 2.93E-07 | 4.24E-06 | 2.63E-06 | 2.63E-06 | 1.30E-06 |
| 532 | 259715.82 | 4085469.85 | 3.49E-06 | 5.05E-05 | 3.72E-05 | 3.72E-05 | 2.08E-05 | 5.30E-07 | 7.70E-06 | 5.82E-06 | 5.82E-06 | 3.20E-06 | 2.88E-07 | 4.17E-06 | 2.59E-06 | 2.59E-06 | 1.28E-06 |
| 533 | 259707.11 | 4085493 | 3.44E-06 | 4.97E-05 | 3.67E-05 | 3.67E-05 | 2.04E-05 | 5.22E-07 | 7.58E-06 | 5.72E-06 | 5.72E-06 | 3.15E-06 | 2.83E-07 | 4.10E-06 | 2.55E-06 | 2.55E-06 | 1.26E-06 |
| 534 | 259698.41 | 4085516.15 | 3.39E-06 | 4.90E-05 | 3.61E-05 | 3.61E-05 | 2.01E-05 | 5.14E-07 | 7.47E-06 | 5.64E-06 | 5.64E-06 | 3.10E-06 | 2.79E-07 | 4.04E-06 | 2.51E-06 | 2.51E-06 | 1.24E-06 |
| 535 | 259689.7 | 4085539.29 | 3.34E-06 | 4.83E-05 | 3.56E-05 | 3.56E-05 | 1.99E-05 | 5.07E-07 | 7.36E-06 | 5.56E-06 | 5.56E-06 | 3.06E-06 | 2.75E-07 | 3.98E-06 | 2.48E-06 | 2.48E-06 | 1.23E-06 |
| 536 | 259680.99 | 4085562.44 | 3.31E-06 | 4.78E-05 | 3.53E-05 | 3.53E-05 | 1.97E-05 | 5.02E-07 | 7.29E-06 | 5.50E-06 | 5.50E-06 | 3.03E-06 | 2.73E-07 | 3.94E-06 | 2.45E-06 | 2.45E-06 | 1.21E-06 |
| 537 | 259672.29 | 4085585.59 | 3.27E-06 | 4.73E-05 | 3.49E-05 | 3.49E-05 | 1.94E-05 | 4.96E-07 | 7.21E-06 | 5.44E-06 | 5.44E-06 | 2.99E-06 | 2.70E-07 | 3.90E-06 | 2.42E-06 | 2.42E-06 | 1.20E-06 |
| 538 | 259663.58 | 4085608.73 | 3.24E-06 | 4.69E-05 | 3.45E-05 | 3.45E-05 | 1.93E-05 | 4.92E-07 | 7.14E-06 | 5.39E-06 | 5.39E-06 | 2.96E-06 | 2.67E-07 | 3.86E-06 | 2.40E-06 | 2.40E-06 | 1.19E-06 |
| 539 | 259654.88 | 4085631.88 | 3.21E-06 | 4.65E-05 | 3.43E-05 | 3.43E-05 | 1.91E-05 | 4.88E-07 | 7.08E-06 | 5.35E-06 | 5.35E-06 | 2.94E-06 | 2.65E-07 | 3.83E-06 | 2.38E-06 | 2.38E-06 | 1.18E-06 |
| 540 | 259646.17 | 4085655.03 | 3.19E-06 | 4.61E-05 | 3.40E-05 | 3.40E-05 | 1.90E-05 | 4.84E-07 | 7.03E-06 | 5.31E-06 | 5.31E-06 | 2.92E-06 | 2.63E-07 | 3.80E-06 | 2.36E-06 | 2.36E-06 | 1.17E-06 |
| 541 | 259637.46 | 4085678.18 | 3.17E-06 | 4.58E-05 | 3.38E-05 | 3.38E-05 | 1.88E-05 | 4.81E-07 | 6.98E-06 | 5.27E-06 | 5.27E-06 | 2.90E-06 | 2.61E-07 | 3.78E-06 | 2.35E-06 | 2.35E-06 | 1.16E-06 |
| 542 | 259628.76 | 4085701.32 | 3.15E-06 | 4.55E-05 | 3.35E-05 | 3.35E-05 | 1.87E-05 | 4.77E-07 | 6.93E-06 | 5.24E-06 | 5.24E-06 | 2.88E-06 | 2.59E-07 | 3.75E-06 | 2.33E-06 | 2.33E-06 | 1.15E-06 |
| 543 | 259620.05 | 4085724.47 | 3.12E-06 | 4.52E-05 | 3.33E-05 | 3.33E-05 | 1.86E-05 | 4.74E-07 | 6.88E-06 | 5.20E-06 | 5.20E-06 | 2.86E-06 | 2.57E-07 | 3.72E-06 | 2.31E-06 | 2.31E-06 | 1.14E-06 |
| 544 | 259611.35 | 4085747.62 | 3.09E-06 | 4.48E-05 | 3.30E-05 | 3.30E-05 | 1.84E-05 | 4.70E-07 | 6.82E-06 | 5.15E-06 | 5.15E-06 | 2.83E-06 | 2.55E-07 | 3.69E-06 | 2.29E-06 | 2.29E-06 | 1.13E-06 |
| 545 | 259602.64 | 4085770.76 | 3.07E-06 | 4.45E-05 | 3.28E-05 | 3.28E-05 | 1.83E-05 | 4.66E-07 | 6.77E-06 | 5.12E-06 | 5.12E-06 | 2.81E-06 | 2.53E-07 | 3.66E-06 | 2.28E-06 | 2.28E-06 | 1.13E-06 |
| 546 | 259593.93 | 4085793.91 | 3.05E-06 | 4.41E-05 | 3.25E-05 | 3.25E-05 | 1.81E-05 | 4.63E-07 | 6.72E-06 | 5.08E-06 | 5.08E-06 | 2.79E-06 | 2.51E-07 | 3.64E-06 | 2.26E-06 | 2.26E-06 | 1.12E-06 |
| 547 | 259585.23 | 4085817.06 | 3.03E-06 | 4.38E-05 | 3.23E-05 | 3.23E-05 | 1.80E-05 | 4.59E-07 | 6.67E-06 | 5.04E-06 | 5.04E-06 | 2.77E-06 | 2.49E-07 | 3.61E-06 | 2.24E-06 | 2.24E-06 | 1.11E-06 |
| 548 | 259576.52 | 4085840.21 | 3.00E-06 | 4.34E-05 | 3.20E-05 | 3.20E-05 | 1.78E-05 | 4.56E-07 | 6.61E-06 | 5.00E-06 | 5.00E-06 | 2.75E-06 | 2.47E-07 | 3.58E-06 | 2.22E-06 | 2.22E-06 | 1.10E-06 |
| 549 | 259567.82 | 4085863.35 | 2.97E-06 | 4.30E-05 | 3.17E-05 | 3.17E-05 | 1.77E-05 | 4.51E-07 | 6.55E-06 | 4.95E-06 | 4.95E-06 | 2.72E-06 | 2.45E-07 | 3.54E-06 | 2.20E-06 | 2.20E-06 | 1.09E-06 |
| 550 | 259559.11 | 4085886.5 | 2.94E-06 | 4.25E-05 | 3.13E-05 | 3.13E-05 | 1.75E-05 | 4.46E-07 | 6.48E-06 | 4.89E-06 | 4.89E-06 | 2.69E-06 | 2.42E-07 | 3.51E-06 | 2.18E-06 | 2.18E-06 | 1.08E-06 |
| 551 | 259550.4 | 4085909.65 | 2.91E-06 | 4.20E-05 | 3.10E-05 | 3.10E-05 | 1.73E-05 | 4.41E-07 | 6.40E-06 | 4.84E-06 | 4.84E-06 | 2.66E-06 | 2.40E-07 | 3.46E-06 | 2.15E-06 | 2.15E-06 | 1.07E-06 |
| 552 | 259541.7 | 4085932.79 | 2.87E-06 | 4.15E-05 | 3.06E-05 | 3.06E-05 | 1.71E-05 | 4.35E-07 | 6.32E-06 | 4.78E-06 | 4.78E-06 | 2.63E-06 | 2.36E-07 | 3.42E-06 | 2.12E-06 | 2.12E-06 | 1.05E-06 |
| 553 | 259532.99 | 4085955.94 | 2.83E-06 | 4.09E-05 | 3.02E-05 | 3.02E-05 | 1.68E-05 | 4.29E-07 | 6.24E-06 | 4.71E-06 | 4.71E-06 | 2.59E-06 | 2.33E-07 | 3.37E-06 | 2.10E-06 | 2.10E-06 | 1.04E-06 |
| 554 | 259524.29 | 4085979.09 | 2.79E-06 | 4.04E-05 | 2.98E-05 | 2.98E-05 | 1.66E-05 | 4.24E-07 | 6.15E-06 | 4.65E-06 | 4.65E-06 | 2.55E-06 | 2.30E-07 | 3.33E-06 | 2.07E-06 | 2.07E-06 | 1.02E-06 |
| 555 | 259515.58 | 4086002.24 | 2.75E-06 | 3.98E-05 | 2.94E-05 | 2.94E-05 | 1.64E-05 | 4.18E-07 | 6.07E-06 | 4.58E-06 | 4.58E-06 | 2.52E-06 | 2.27E-07 | 3.28E-06 | 2.04E-06 | 2.04E-06 | 1.01E-06 |
| 556 | 259506.87 | 4086025.38 | 2.72E-06 | 3.93E-05 | 2.90E-05 | 2.90E-05 | 1.62E-05 | 4.13E-07 | 5.99E-06 | 4.53E-06 | 4.53E-06 | 2.49E-06 | 2.24E-07 | 3.24E-06 | 2.01E-06 | 2.01E-06 | 9.97E-07 |
| 557 | 259498.17 | 4086048.53 | 2.69E-06 | 3.89E-05 | 2.86E-05 | 2.86E-05 | 1.60E-05 | 4.08E-07 | 5.92E-06 | 4.47E-06 | 4.47E-06 | 2.46E-06 | 2.21E-07 | 3.20E-06 | 1.99E-06 | 1.99E-06 | 9.85E-07 |
| 558 | 259489.46 | 4086071.68 | 2.66E-06 | 3.85E-05 | 2.84E-05 | 2.84E-05 | 1.58E-05 | 4.04E-07 | 5.86E-06 | 4.43E-06 | 4.43E-06 | 2.43E-06 | 2.19E-07 | 3.17E-06 | 1.97E-06 | 1.97E-06 | 9.75E-07 |
| 559 | 259480.75 | 4086094.82 | 2.64E-06 | 3.81E-05 | 2.81E-05 | 2.81E-05 | 1.57E-05 | 4.00E-07 | 5.81E-06 | 4.39E-06 | 4.39E-06 | 2.41E-06 | 2.17E-07 | 3.14E-06 | 1.95E-06 | 1.95E-06 | 9.66E-07 |
| 560 | 259472.05 | 4086117.97 | 2.61E-06 | 3.78E-05 | 2.79E-05 | 2.79E-05 | 1.55E-05 | 3.97E-07 | 5.76E-06 | 4.35E-06 | 4.35E-06 | 2.39E-06 | 2.15E-07 | 3.11E-06 | 1.93E-06 | 1.93E-06 | 9.58E-07 |
| 561 | 259440.9 | 4086151.5 | 2.61E-06 | 3.78E-05 | 2.79E-05 | 2.79E-05 | 1.55E-05 | 3.97E-07 | 5.76E-06 | 4.35E-06 | 4.35E-06 | 2.39E-06 | 2.16E-07 | 3.12E-06 | 1.94E-06 | 1.94E-06 | 9.58E-07 |
| 562 | 259418.45 | 4086161.88 | 2.64E-06 | 3.82E-05 | 2.81E-05 | 2.81E-05 | 1.57E-05 | 4.01E-07 | 5.82E-06 | 4.39E-06 | 4.39E-06 | 2.42E-06 | 2.18E-07 | 3.15E-06 | 1.95E-06 | 1.95E-06 | 9.67E-07 |
| 563 | 259396.01 | 4086172.26 | 2.67E-06 | 3.86E-05 | 2.84E-05 | 2.84E-05 | 1.58E-05 | 4.05E-07 | 5.87E-06 | 4.44E-06 | 4.44E-06 | 2.44E-06 | 2.20E-07 | 3.18E-06 | 1.97E-06 | 1.97E-06 | 9.77E-07 |
| 564 | 259373.56 | 4086182.64 | 2.69E-06 | 3.89E-05 | 2.87E-05 | 2.87E-05 | 1.60E-05 | 4.09E-07 | 5.93E-06 | 4.48E-06 | 4.48E-06 | 2.46E-06 | 2.22E-07 | 3.21E-06 | 1.99E-06 | 1.99E-06 | 9.87E-07 |
| 565 | 259351.11 | 4086193.02 | 2.72E-06 | 3.94E-05 | 2.90E-05 | 2.90E-05 | 1.62E-05 | 4.13E-07 | 6.00E-06 | 4.53E-06 | 4.53E-06 | 2.49E-06 | 2.24E-07 | 3.24E-06 | 2.02E-06 | 2.02E-06 | 9.98E-07 |
| 566 | 259328.67 | 4086203.4 | 2.75E-06 | 3.97E-05 | 2.93E-05 | 2.93E-05 | 1.63E-05 | 4.17E-07 | 6.05E-06 | 4.57E-06 | 4.57E-06 | 2.51E-06 | 2.26E-07 | 3.28E-06 | 2.03E-06 | 2.03E-06 | 1.01E-06 |
| 567 | 259306.22 | 4086213.78 | 2.78E-06 | 4.02E-05 | 2.96E-05 | 2.96E-05 | 1.65E-05 | 4.21E-07 | 6.12E-06 | 4.62E-06 | 4.62E-06 | 2.54E-06 | 2.29E-07 | 3.31E-06 | 2.06E-06 | 2.06E-06 | 1.02E-06 |
| 568 | 259283.78 | 4086224.17 | 2.81E-06 | 4.06E-05 | 2.99E-05 | 2.99E-05 | 1.67E-05 | 4.26E-07 | 6.18E-06 | 4.67E-06 | 4.67E-06 | 2.57E-06 | 2.31E-07 | 3.34E-06 | 2.08E-06 | 2.08E-06 | 1.03E-06 |
| 569 | 259261.33 | 4086234.55 | 2.84E-06 | 4.10E-05 | 3.02E-05 | 3.02E-05 | 1.69E-05 | 4.30E-07 | 6.25E-06 | 4.72E-06 | 4.72E-06 | 2.60E-06 | 2.34E-07 | 3.38E-06 | 2.10E-06 | 2.10E-06 | 1.04E-06 |
| 570 | 259238.88 | 4086244.93 | 2.87E-06 | 4.15E-05 | 3.06E-05 | 3.06E-05 | 1.71E-05 | 4.35E-07 | 6.32E-06 | 4.78E-06 | 4.78E-06 | 2.63E-06 | 2.36E-07 | 3.42E-06 | 2.12E-06 | 2.12E-06 | 1.05E-06 |
| 571 | 259216.44 | 4086255.31 | 2.90E-06 | 4.20E-05 | 3.10E-05 | 3.10E-05 | 1.73E-05 | 4.41E-07 | 6.40E-06 | 4.83E-06 | 4.83E-06 | 2.66E-06 | 2.39E-07 | 3.46E-06 | 2.15E-06 | 2.15E-06 | 1.06E-06 |
| 572 | 259193.99 | 4086265.69 | 2.94E-06 | 4.25E-05 | 3.13E-05 | 3.13E-05 | 1.75E-05 | 4.46E-07 | 6.48E-06 | 4.89E-06 | 4.89E-06 | 2.69E-06 | 2.42E-07 | 3.51E-06 | 2.18E-06 | 2.18E-06 | 1.08E-06 |
| 573 | 259171.55 | 4086276.07 | 2.98E-06 | 4.31E-05 | 3.18E-05 | 3.18E-05 | 1.77E-05 | 4.52E-07 | 6.57E-06 | 4.96E-06 | 4.96E-06 | 2.73E-06 | 2.46E-07 | 3.55E-06 | 2.21E-06 | 2.21E-06 | 1.09E-06 |
| 574 | 259149.1 | 4086286.45 | 3.03E-06 | 4.38E-05 | 3.23E-05 | 3.23E-05 | 1.80E-05 | 4.59E-07 | 6.67E-06 | 5.04E-06 | 5.04E-06 | 2.77E-06 | 2.49E-07 | 3.61E-06 | 2.24E-06 | 2.24E-06 | 1.11E-06 |
| 575 | 259126.65 | 4086296.83 | 3.08E-06 | 4.45E-05 | 3.28E-05 | 3.28E-05 | 1.83E-05 | 4.67E-07 | 6.78E-06 | 5.12E-06 | 5.12E-06 | 2.81E-06 | 2.54E-07 | 3.67E-06 | 2.28E-06 | 2.28E-06 | 1.13E-06 |
| 576 | 259104.21 | 4086307.21 | 3.13E-06 | 4.53E-05 | 3.34E-05 | 3.34E-05 | 1.86E-05 | 4.75E-07 | 6.90E-06 | 5.21E-06 | 5.21E-06 | 2.87E-06 | 2.58E-07 | 3.73E-06 | 2.32E-06 | 2.32E-06 | 1.15E-06 |
| 577 | 259081.76 | 4086317.59 | 3.19E-06 | 4.62E-05 | 3.40E-05 | 3.40E-05 | 1.90E-05 | 4.85E-07 | 7.03E-06 | 5.31E-06 | 5.31E-06 | 2.92E-06 | 2.63E-07 | 3.81E-06 | 2.36E-06 | 2.36E-06 | 1.17E-06 |
| 578 | 259059.32 | 4086327.97 | 3.26E-06 | 4.71E-05 | 3.47E-05 | 3.47E-05 | 1.94E-05 | 4.94E-07 | 7.18E-06 | 5.42E-06 | 5.42E-06 | 2.98E-06 | 2.69E-07 | 3.88E-06 | 2.41E-06 | 2.41E-06 | 1.19E-06 |
| 579 | 259036.87 | 4086338.36 | 3.33E-06 | 4.81E-05 | 3.55E-05 | 3.55E-05 | 1.98E-05 | 5.05E-07 | 7.33E-06 | 5.54E-06 | 5.54E-06 | 3.05E-06 | 2.74E-07 | 3.97E-06 | 2.46E-06 | 2.46E-06 | 1.22E-06 |
| 580 | 259014.42 | 4086348.74 | 3.40E-06 | 4.92E-05 | 3.62E-05 | 3.62E-05 | 2.02E-05 | 5.16E-07 | 7.49E-06 | 5.66E-06 | 5.66E-06 | 3.11E-06 | 2.80E-07 | 4.05E-06 | 2.52E-06 | 2.52E-06 | 1.25E-06 |
| 581 | 258991.98 | 4086359.12 | 3.47E-06 | 5.02E-05 | 3.70E-05 | 3.70E-05 | 2.06E-05 | 5.27E-07 | 7.65E-06 | 5.78E-06 | 5.78E-06 | 3.18E-06 | 2.86E-07 | 4.14E-06 | 2.57E-06 | 2.57E-06 | 1.27E-06 |
| 582 | 258969.53 | 4086369.5 | 3.54E-06 | 5.12E-05 | 3.77E-05 | 3.77E-05 | 2.10E-05 | 5.37E-07 | 7.80E-06 | 5.89E-06 | 5.89E-06 | 3.24E-06 | 2.92E-07 | 4.22E-06 | 2.62E-06 | 2.62E-06 | 1.30E-06 |
| 583 | 258947.09 | 4086379.88 | 3.60E-06 | 5.21E-05 | 3.84E-05 | 3.84E-05 | 2.14E-05 | 5.47E-07 | 7.94E-06 | 6.00E-06 | 6.00E-06 | 3.30E-06 | 2.97E-07 | 4.29E-06 | 2.67E-06 | 2.67E-06 | 1.32E-06 |
| 584 | 258924.64 | 4086390.26 | 3.66E-06 | 5.29E-05 | 3.90E-05 | 3.90E-05 | 2.17E-05 | 5.55E-07 | 8.05E-06 | 6.08E-06 | 6.08E-06 | 3.35E-06 | 3.01E-07 | 4.36E-06 | 2.71E-06 | 2.71E-06 | 1.34E-06 |
| 585 | 258902.19 | 4086400.64 | 3.70E-06 | 5.35E-05 | 3.95E-05 | 3.95E-05 | 2.20E-05 | 5.62E-07 | 8.15E-06 | 6.16E-06 | 6.16E-06 | 3.39E-06 | 3.05E-07 | 4.41E-06 | 2.74E-06 | 2.74E-06 | 1.36E-06 |
| 586 | 258879.75 | 4086411.02 | 3.74E-06 | 5.41E-05 | 3.98E-05 | 3.98E-05 | 2.22E-05 | 5.67E-07 | 8.24E-06 | 6.22E-06 | 6.22E-06 | 3.42E-06 | 3.08E-07 | 4.46E-06 | 2.77E-06 | 2.77E-06 | 1.37E-06 |
| 587 | 258857.3 | 4086421.4 | 3.77E-06 | 5.45E-05 | 4.02E-05 | 4.02E-05 | 2.24E-05 | 5.72E-07 | 8.30E-06 | 6.27E-06 | 6.27E-06 | 3.45E-06 | 3.10E-07 | 4.49E-06 | 2.79E-06 | 2.79E-06 | 1.38E-06 |
| 588 | 258834.86 | 4086431.78 | 3.79E-06 | 5.48E-05 | 4.04E-05 | 4.04E-05 | 2.25E-05 | 5.75E-07 | 8.35E-06 | 6.31E-06 | 6.31E-06 | 3.47E-06 | 3.12E-07 | 4.52E-06 | 2.81E-06 | 2.81E-06 | 1.39E-06 |
| 589 | 258812.41 | 4086442.16 | 3.81E-06 | 5.51E-05 | 4.06E-05 | 4.06E-05 | 2.26E-05 | 5.78E-07 | 8.39E-06 | 6.34E-06 | 6.34E-06 | 3.49E-06 | 3.14E-07 | 4.54E-06 | 2.82E-06 | 2.82E-06 | 1.40E-06 |
| 590 | 258789.97 | 4086452.55 | 3.83E-06 | 5.53E-05 | 4.08E-05 | 4.08E-05 | 2.27E-05 | 5.81E-07 | 8.43E-06 | 6.37E-06 | 6.37E-06 | 3.50E-06 | 3.15E-07 | 4.56E-06 | 2.83E-06 | 2.83E-06 | 1.40E-06 |
| 591 | 258767.52 | 4086462.93 | 3.84E-06 | 5.56E-05 | 4.10E-05 | 4.10E-05 | 2.28E-05 | 5.83E-07 | 8.47E-06 | 6.40E-06 | 6.40E-06 | 3.52E-06 | 3.17E-07 | 4.58E-06 | 2.85E-06 | 2.85E-06 | 1.41E-06 |
| 592 | 258745.07 | 4086473.31 | 3.86E-06 | 5.59E-05 | 4.12E-05 | 4.12E-05 | 2.30E-05 | 5.86E-07 | 8.51E-06 | 6.43E-06 | 6.43E-06 | 3.53E-06 | 3.18E-07 | 4.61E-06 | 2.86E-06 | 2.86E-06 | 1.42E-06 |
| 593 | 258722.63 | 4086483.69 | 3.88E-06 | 5.62E-05 | 4.14E-05 | 4.14E-05 | 2.31E-05 | 5.89E-07 | 8.56E-06 | 6.46E-06 | 6.46E-06 | 3.55E-06 | 3.20E-07 | 4.63E-06 | 2.88E-06 | 2.88E-06 | 1.42E-06 |
| 594 | 258700.18 | 4086494.07 | 3.91E-06 | 5.65E-05 | 4.16E-05 | 4.16E-05 | 2.32E-05 | 5.93E-07 | 8.61E-06 | 6.50E-06 | 6.50E-06 | 3.57E-06 | 3.22E-07 | 4.66E-06 | 2.89E-06 | 2.89E-06 | 1.43E-06 |
| 595 | 258677.74 | 4086504.45 | 3.93E-06 | 5.69E-05 | 4.19E-05 | 4.19E-05 | 2.34E-05 | 5.97E-07 | 8.66E-06 | 6.55E-06 | 6.55E-06 | 3.60E-06 | 3.24E-07 | 4.69E-06 | 2.91E-06 | 2.91E-06 | 1.44E-06 |
| 596 | 258655.29 | 4086514.83 | 3.96E-06 | 5.73E-05 | 4.22E-05 | 4.22E-05 | 2.36E-05 | 6.01E-07 | 8.73E-06 | 6.60E-06 | 6.60E-06 | 3.63E-06 | 3.27E-07 | 4.72E-06 | 2.93E-06 | 2.93E-06 | 1.45E-06 |
| 597 | 258632.84 | 4086525.21 | 4.00E-06 | 5.78E-05 | 4.26E-05 | 4.26E-05 | 2.37E-05 | 6.06E-07 | 8.80E-06 | 6.65E-06 | 6.65E-06 | 3.66E-06 | 3.29E-07 | 4.76E-06 | 2.96E-06 | 2.96E-06 | 1.46E-06 |
| 598 | 258610.4 | 4086535.59 | 4.03E-06 | 5.83E-05 | 4.30E-05 | 4.30E-05 | 2.40E-05 | 6.12E-07 | 8.88E-06 | 6.71E-06 | 6.71E-06 | 3.69E-06 | 3.32E-07 | 4.81E-06 | 2.98E-06 | 2.98E-06 | 1.48E-06 |
| 599 | 258587.95 | 4086545.97 | 4.07E-06 | 5.89E-05 | 4.34E-05 | 4.34E-05 | 2.42E-05 | 6.18E-07 | 8.97E-06 | 6.77E-06 | 6.77E-06 | 3.72E-06 | 3.35E-07 | 4.85E-06 | 3.01E-06 | 3.01E-06 | 1.49E-06 |
| 600 | 258565.51 | 4086556.36 | 4.11E-06 | 5.95E-05 | 4.38E-05 | 4.38E-05 | 2.44E-05 | 6.24E-07 | 9.06E-06 | 6.84E-06 | 6.84E-06 | 3.76E-06 | 3.39E-07 | 4.90E-06 | 3.04E-06 | 3.04E-06 | 1.51E-06 |
| 601 | 258543.06 | 4086566.74 | 4.15E-06 | 6.01E-05 | 4.43E-05 | 4.43E-05 | 2.47E-05 | 6.30E-07 | 9.15E-06 | 6.91E-06 | 6.91E-06 | 3.80E-06 | 3.42E-07 | 4.95E-06 | 3.08E-06 | 3.08E-06 | 1.52E-06 |
| 602 | 258520.61 | 4086577.12 | 4.20E-06 | 6.07E-05 | 4.47E-05 | 4.47E-05 | 2.49E-05 | 6.37E-07 | 9.25E-06 | 6.99E-06 | 6.99E-06 | 3.84E-06 | 3.46E-07 | 5.00E-06 | 3.11E-06 | 3.11E-06 | 1.54E-06 |
| 603 | 258498.17 | 4086587.5 | 4.24E-06 | 6.13E-05 | 4.52E-05 | 4.52E-05 | 2.52E-05 | 6.43E-07 | 9.34E-06 | 7.06E-06 | 7.06E-06 | 3.88E-06 | 3.49E-07 | 5.05E-06 | 3.14E-06 | 3.14E-06 | 1.55E-06 |
| 604 | 258475.72 | 4086597.88 | 4.28E-06 | 6.19E-05 | 4.56E-05 | 4.56E-05 | 2.54E-05 | 6.50E-07 | 9.43E-06 | 7.12E-06 | 7.12E-06 | 3.92E-06 | 3.53E-07 | 5.10E-06 | 3.17E-06 | 3.17E-06 | 1.57E-06 |
| 605 | 258453.28 | 4086608.26 | 4.32E-06 | 6.25E-05 | 4.60E-05 | 4.60E-05 | 2.57E-05 | 6.56E-07 | 9.52E-06 | 7.19E-06 | 7.19E-06 | 3.95E-06 | 3.56E-07 | 5.15E-06 | 3.20E-06 | 3.20E-06 | 1.58E-06 |
| 606 | 259863.82 | 4085076.35 | 4.20E-06 | 6.07E-05 | 4.47E-05 | 4.47E-05 | 2.49E-05 | 6.37E-07 | 9.25E-06 | 6.99E-06 | 6.99E-06 | 3.84E-06 | 3.46E-07 | 5.00E-06 | 3.11E-06 | 3.11E-06 | 1.54E-06 |
| 607 | 259863.1 | 4085051.6 | 4.25E-06 | 6.14E-05 | 4.53E-05 | 4.53E-05 | 2.52E-05 | 6.45E-07 | 9.36E-06 | 7.07E-06 | 7.07E-06 | 3.89E-06 | 3.50E-07 | 5.06E-06 | 3.15E-06 | 3.15E-06 | 1.56E-06 |
| 608 | 259862.38 | 4085026.84 | 4.31E-06 | 6.24E-05 | 4.60E-05 | 4.60E-05 | 2.56E-05 | 6.55E-07 | 9.50E-06 | 7.18E-06 | 7.18E-06 | 3.95E-06 | 3.56E-07 | 5.14E-06 | 3.19E-06 | 3.19E-06 | 1.58E-06 |
| 609 | 259861.65 | 4085002.08 | 4.40E-06 | 6.36E-05 | 4.69E-05 | 4.69E-05 | 2.61E-05 | 6.68E-07 | 9.69E-06 | 7.32E-06 | 7.32E-06 | 4.03E-06 | 3.63E-07 | 5.25E-06 | 3.26E-06 | 3.26E-06 | 1.61E-06 |
| 610 | 259860.93 | 4084977.33 | 4.50E-06 | 6.51E-05 | 4.80E-05 | 4.80E-05 | 2.68E-05 | 6.84E-07 | 9.92E-06 | 7.50E-06 | 7.50E-06 | 4.12E-06 | 3.71E-07 | 5.37E-06 | 3.34E-06 | 3.34E-06 | 1.65E-06 |
| 611 | 259860.21 | 4084952.57 | 4.62E-06 | 6.69E-05 | 4.93E-05 | 4.93E-05 | 2.75E-05 | 7.02E-07 | 1.02E-05 | 7.69E-06 | 7.69E-06 | 4.23E-06 | 3.81E-07 | 5.51E-06 | 3.42E-06 | 3.42E-06 | 1.69E-06 |
| 612 | 259859.49 | 4084927.81 | 4.76E-06 | 6.88E-05 | 5.07E-05 | 5.07E-05 | 2.83E-05 | 7.22E-07 | 1.05E-05 | 7.92E-06 | 7.92E-06 | 4.35E-06 | 3.92E-07 | 5.67E-06 | 3.52E-06 | 3.52E-06 | 1.74E-06 |
| 613 | 259858.76 | 4084903.06 | 4.90E-06 | 7.08E-05 | 5.22E-05 | 5.22E-05 | 2.91E-05 | 7.43E-07 | 1.08E-05 | 8.15E-06 | 8.15E-06 | 4.48E-06 | 4.04E-07 | 5.84E-06 | 3.63E-06 | 3.63E-06 | 1.80E-06 |
| 614 | 259858.04 | 4084878.3 | 5.04E-06 | 7.29E-05 | 5.37E-05 | 5.37E-05 | 2.99E-05 | 7.65E-07 | 1.11E-05 | 8.39E-06 | 8.39E-06 | 4.61E-06 | 4.15E-07 | 6.01E-06 | 3.73E-06 | 3.73E-06 | 1.85E-06 |
| 615 | 258357.65 | 4084897.08 | 4.89E-04 | 7.07E-03 | 5.21E-03 | 5.21E-03 | 2.90E-03 | 7.42E-05 | 1.08E-03 | 8.14E-04 | 8.14E-04 | 4.47E-04 | 4.03E-05 | 5.83E-04 | 3.62E-04 | 3.62E-04 | 1.79E-04 |
| 616 | 258333.32 | 4084898.08 | 5.12E-04 | 7.40E-03 | 5.45E-03 | 5.45E-03 | 3.04E-03 | 7.77E-05 | 1.13E-03 | 8.52E-04 | 8.52E-04 | 4.68E-04 | 4.22E-05 | 6.10E-04 | 3.79E-04 | 3.79E-04 | 1.88E-04 |
| 617 | 258308.99 | 4084899.08 | 5.24E-04 | 7.57E-03 | 5.58E-03 | 5.58E-03 | 3.11E-03 | 7.95E-05 | 1.15E-03 | 8.71E-04 | 8.71E-04 | 4.79E-04 | 4.32E-05 | 6.24E-04 | 3.88E-04 | 3.88E-04 | 1.92E-04 |
| 618 | 258284.66 | 4084900.08 | 5.31E-04 | 7.68E-03 | 5.66E-03 | 5.66E-03 | 3.16E-03 | 8.06E-05 | 1.17E-03 | 8.84E-04 | 8.84E-04 | 4.86E-04 | 4.38E-05 | 6.33E-04 | 3.93E-04 | 3.93E-04 | 1.95E-04 |
| 619 | 258260.33 | 4084901.08 | 5.37E-04 | 7.76E-03 | 5.72E-03 | 5.72E-03 | 3.19E-03 | 8.15E-05 | 1.18E-03 | 8.94E-04 | 8.94E-04 | 4.91E-04 | 4.42E-05 | 6.40E-04 | 3.98E-04 | 3.98E-04 | 1.97E-04 |
| 620 | 258235.99 | 4084902.08 | 5.41E-04 | 7.82E-03 | 5.76E-03 | 5.76E-03 | 3.21E-03 | 8.20E-05 | 1.19E-03 | 9.00E-04 | 9.00E-04 | 4.95E-04 | 4.46E-05 | 6.45E-04 | 4.00E-04 | 4.00E-04 | 1.98E-04 |
| 621 | 258211.66 | 4084903.08 | 5.43E-04 | 7.85E-03 | 5.79E-03 | 5.79E-03 | 3.23E-03 | 8.24E-05 | 1.20E-03 | 9.04E-04 | 9.04E-04 | 4.97E-04 | 4.47E-05 | 6.47E-04 | 4.02E-04 | 4.02E-04 | 1.99E-04 |
| 622 | 258187.33 | 4084904.08 | 5.44E-04 | 7.87E-03 | 5.80E-03 | 5.80E-03 | 3.23E-03 | 8.26E-05 | 1.20E-03 | 9.06E-04 | 9.06E-04 | 4.98E-04 | 4.48E-05 | 6.49E-04 | 4.03E-04 | 4.03E-04 | 1.99E-04 |
| 623 | 258163 | 4064905.08 | 5.44E-04 | 7.87E-03 | 5.80E-03 | 5.80E-03 | 3.23E-03 | 8.26E-05 | 1.20E-03 | 9.06E-04 | 9.06E-04 | 4.98E-04 | 4.49E-05 | 6.49E-04 | 4

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 417 | 258479.94 | 4086188.13 | 5.93E-06 | 8.57E-05 | 6.32E-05 | 6.32E-05 | 3.52E-05 | 8.99E-07 | 1.31E-05 | 9.86E-06 | 9.86E-06 | 5.42E-06 | 4.88E-07 | 7.07E-06 | 4.39E-06 | 4.39E-06 | 2.17E-06 |
| 418 | 258457.67 | 4086198.43 | 6.01E-06 | 8.69E-05 | 6.40E-05 | 6.40E-05 | 3.57E-05 | 9.12E-07 | 1.32E-05 | 1.00E-05 | 1.00E-05 | 5.50E-06 | 4.95E-07 | 7.16E-06 | 4.45E-06 | 4.45E-06 | 2.20E-06 |
| 419 | 258435.4 | 4085208.73 | 6.10E-06 | 8.83E-05 | 6.51E-05 | 6.51E-05 | 3.63E-05 | 9.26E-07 | 1.35E-05 | 1.02E-05 | 1.02E-05 | 5.59E-06 | 5.03E-07 | 7.28E-06 | 4.52E-06 | 4.52E-06 | 2.24E-06 |
| 420 | 259463.99 | 4085088.02 | 6.24E-06 | 9.02E-05 | 6.65E-05 | 6.65E-05 | 3.71E-05 | 9.47E-07 | 1.37E-05 | 1.04E-05 | 1.04E-05 | 5.71E-06 | 5.14E-07 | 7.44E-06 | 4.62E-06 | 4.62E-06 | 2.29E-06 |
| 421 | 259463.27 | 4085063.26 | 6.36E-06 | 9.19E-05 | 6.78E-05 | 6.78E-05 | 3.78E-05 | 9.65E-07 | 1.40E-05 | 1.06E-05 | 1.06E-05 | 5.82E-06 | 5.24E-07 | 7.58E-06 | 4.71E-06 | 4.71E-06 | 2.33E-06 |
| 422 | 259462.55 | 4085038.51 | 6.51E-06 | 9.41E-05 | 6.94E-05 | 6.94E-05 | 3.87E-05 | 9.88E-07 | 1.43E-05 | 1.08E-05 | 1.08E-05 | 5.96E-06 | 5.36E-07 | 7.76E-06 | 4.82E-06 | 4.82E-06 | 2.39E-06 |
| 423 | 259461.82 | 4085013.75 | 6.68E-06 | 9.66E-05 | 7.12E-05 | 7.12E-05 | 3.97E-05 | 1.01E-06 | 1.47E-05 | 1.11E-05 | 1.11E-05 | 6.11E-06 | 5.51E-07 | 7.97E-06 | 4.95E-06 | 4.95E-06 | 2.45E-06 |
| 424 | 259461.1 | 4084989 | 6.89E-06 | 9.96E-05 | 7.34E-05 | 7.34E-05 | 4.09E-05 | 1.05E-06 | 1.52E-05 | 1.15E-05 | 1.15E-05 | 6.30E-06 | 5.68E-07 | 8.21E-06 | 5.10E-06 | 5.10E-06 | 2.52E-06 |
| 425 | 259460.38 | 4084964.24 | 7.12E-06 | 1.03E-04 | 7.59E-05 | 7.59E-05 | 4.23E-05 | 1.08E-06 | 1.57E-05 | 1.18E-05 | 1.18E-05 | 6.51E-06 | 5.87E-07 | 8.48E-06 | 5.27E-06 | 5.27E-06 | 2.61E-06 |
| 426 | 259459.66 | 4084939.48 | 7.37E-06 | 1.07E-04 | 7.85E-05 | 7.85E-05 | 4.38E-05 | 1.12E-06 | 1.62E-05 | 1.23E-05 | 1.23E-05 | 6.74E-06 | 6.07E-07 | 8.78E-06 | 5.46E-06 | 5.46E-06 | 2.70E-06 |
| 427 | 259458.93 | 4084914.73 | 7.62E-06 | 1.10E-04 | 8.13E-05 | 8.13E-05 | 4.53E-05 | 1.16E-06 | 1.68E-05 | 1.27E-05 | 1.27E-05 | 6.98E-06 | 6.28E-07 | 9.09E-06 | 5.65E-06 | 5.65E-06 | 2.79E-06 |
| 428 | 259458.21 | 4084889.97 | 7.88E-06 | 1.14E-04 | 8.40E-05 | 8.40E-05 | 4.69E-05 | 1.20E-06 | 1.74E-05 | 1.31E-05 | 1.31E-05 | 7.21E-06 | 6.50E-07 | 9.40E-06 | 5.84E-06 | 5.84E-06 | 2.89E-06 |
| 429 | 259655.23 | 4085105.26 | 5.01E-06 | 7.25E-05 | 5.34E-05 | 5.34E-05 | 2.98E-05 | 7.61E-07 | 1.10E-05 | 8.34E-06 | 8.34E-06 | 4.59E-06 | 4.13E-07 | 5.98E-06 | 3.71E-06 | 3.71E-06 | 1.84E-06 |
| 430 | 259646.55 | 4085128.33 | 5.00E-06 | 7.24E-05 | 5.33E-05 | 5.33E-05 | 2.97E-05 | 7.59E-07 | 1.10E-05 | 8.33E-06 | 8.33E-06 | 4.58E-06 | 4.12E-07 | 5.97E-06 | 3.71E-06 | 3.71E-06 | 1.83E-06 |
| 431 | 259637.88 | 4085151.4 | 4.99E-06 | 7.22E-05 | 5.32E-05 | 5.32E-05 | 2.97E-05 | 7.58E-07 | 1.10E-05 | 8.31E-06 | 8.31E-06 | 4.57E-06 | 4.12E-07 | 5.95E-06 | 3.70E-06 | 3.70E-06 | 1.83E-06 |
| 432 | 259629.2 | 4085174.47 | 4.97E-06 | 7.18E-05 | 5.30E-05 | 5.30E-05 | 2.95E-05 | 7.54E-07 | 1.09E-05 | 8.27E-06 | 8.27E-06 | 4.55E-06 | 4.09E-07 | 5.92E-06 | 3.68E-06 | 3.68E-06 | 1.82E-06 |
| 433 | 259620.52 | 4085197.54 | 4.93E-06 | 7.14E-05 | 5.26E-05 | 5.26E-05 | 2.93E-05 | 7.49E-07 | 1.09E-05 | 8.21E-06 | 8.21E-06 | 4.52E-06 | 4.07E-07 | 5.88E-06 | 3.65E-06 | 3.65E-06 | 1.81E-06 |
| 434 | 259611.84 | 4085220.61 | 4.89E-06 | 7.07E-05 | 5.21E-05 | 5.21E-05 | 2.91E-05 | 7.42E-07 | 1.08E-05 | 8.14E-06 | 8.14E-06 | 4.47E-06 | 4.03E-07 | 5.83E-06 | 3.62E-06 | 3.62E-06 | 1.79E-06 |
| 435 | 259603.17 | 4085243.68 | 4.83E-06 | 6.99E-05 | 5.15E-05 | 5.15E-05 | 2.87E-05 | 7.33E-07 | 1.06E-05 | 8.04E-06 | 8.04E-06 | 4.42E-06 | 3.98E-07 | 5.76E-06 | 3.58E-06 | 3.58E-06 | 1.77E-06 |
| 436 | 259594.49 | 4085266.75 | 4.76E-06 | 6.88E-05 | 5.07E-05 | 5.07E-05 | 2.83E-05 | 7.22E-07 | 1.05E-05 | 7.92E-06 | 7.92E-06 | 4.35E-06 | 3.92E-07 | 5.67E-06 | 3.52E-06 | 3.52E-06 | 1.74E-06 |
| 437 | 259585.81 | 4085289.82 | 4.67E-06 | 6.76E-05 | 4.98E-05 | 4.98E-05 | 2.78E-05 | 7.09E-07 | 1.03E-05 | 7.78E-06 | 7.78E-06 | 4.28E-06 | 3.85E-07 | 5.57E-06 | 3.46E-06 | 3.46E-06 | 1.71E-06 |
| 438 | 259577.14 | 4085312.89 | 4.59E-06 | 6.63E-05 | 4.89E-05 | 4.89E-05 | 2.73E-05 | 6.96E-07 | 1.01E-05 | 7.63E-06 | 7.63E-06 | 4.20E-06 | 3.78E-07 | 5.47E-06 | 3.40E-06 | 3.40E-06 | 1.68E-06 |
| 439 | 259568.46 | 4085335.96 | 4.49E-06 | 6.50E-05 | 4.79E-05 | 4.79E-05 | 2.67E-05 | 6.82E-07 | 9.90E-06 | 7.48E-06 | 7.48E-06 | 4.11E-06 | 3.70E-07 | 5.36E-06 | 3.33E-06 | 3.33E-06 | 1.65E-06 |
| 440 | 259559.78 | 4085359.03 | 4.40E-06 | 6.37E-05 | 4.69E-05 | 4.69E-05 | 2.62E-05 | 6.68E-07 | 9.70E-06 | 7.33E-06 | 7.33E-06 | 4.03E-06 | 3.63E-07 | 5.25E-06 | 3.26E-06 | 3.26E-06 | 1.61E-06 |
| 441 | 259551.11 | 4085382.1 | 4.32E-06 | 6.24E-05 | 4.60E-05 | 4.60E-05 | 2.56E-05 | 6.55E-07 | 9.51E-06 | 7.18E-06 | 7.18E-06 | 3.95E-06 | 3.56E-07 | 5.14E-06 | 3.20E-06 | 3.20E-06 | 1.58E-06 |
| 442 | 259542.43 | 4085405.17 | 4.23E-06 | 6.12E-06 | 4.51E-05 | 4.51E-05 | 2.51E-05 | 6.42E-07 | 9.32E-06 | 7.04E-06 | 7.04E-06 | 3.87E-06 | 3.49E-07 | 5.04E-06 | 3.13E-06 | 3.13E-06 | 1.55E-06 |
| 443 | 259533.75 | 4085428.24 | 4.15E-06 | 6.01E-05 | 4.43E-05 | 4.43E-05 | 2.47E-05 | 6.30E-07 | 9.15E-06 | 6.91E-06 | 6.91E-06 | 3.80E-06 | 3.42E-07 | 4.95E-06 | 3.08E-06 | 3.08E-06 | 1.52E-06 |
| 444 | 259525.07 | 4085451.31 | 4.08E-06 | 5.90E-05 | 4.35E-05 | 4.35E-05 | 2.43E-05 | 6.19E-07 | 8.99E-06 | 6.79E-06 | 6.79E-06 | 3.74E-06 | 3.36E-07 | 4.87E-06 | 3.02E-06 | 3.02E-06 | 1.50E-06 |
| 445 | 259516.4 | 4085474.37 | 4.02E-06 | 5.81E-05 | 4.28E-05 | 4.28E-05 | 2.39E-05 | 6.10E-07 | 8.85E-06 | 6.68E-06 | 6.68E-06 | 3.68E-06 | 3.31E-07 | 4.79E-06 | 2.97E-06 | 2.97E-06 | 1.47E-06 |
| 446 | 259507.72 | 4085497.44 | 3.96E-06 | 5.73E-05 | 4.22E-05 | 4.22E-05 | 2.35E-05 | 6.01E-07 | 8.73E-06 | 6.59E-06 | 6.59E-06 | 3.62E-06 | 3.26E-07 | 4.72E-06 | 2.93E-06 | 2.93E-06 | 1.45E-06 |
| 447 | 259499.04 | 4085520.51 | 3.91E-06 | 5.66E-05 | 4.17E-05 | 4.17E-05 | 2.32E-05 | 5.94E-07 | 8.62E-06 | 6.51E-06 | 6.51E-06 | 3.58E-06 | 3.22E-07 | 4.66E-06 | 2.90E-06 | 2.90E-06 | 1.43E-06 |
| 448 | 259490.37 | 4085543.58 | 3.87E-06 | 5.60E-05 | 4.12E-05 | 4.12E-05 | 2.30E-05 | 5.87E-07 | 8.52E-06 | 6.44E-06 | 6.44E-06 | 3.54E-06 | 3.19E-07 | 4.61E-06 | 2.87E-06 | 2.87E-06 | 1.42E-06 |
| 449 | 259481.69 | 4085566.65 | 3.83E-06 | 5.54E-05 | 4.08E-05 | 4.08E-05 | 2.26E-05 | 5.81E-07 | 8.44E-06 | 6.37E-06 | 6.37E-06 | 3.50E-06 | 3.16E-07 | 4.57E-06 | 2.84E-06 | 2.84E-06 | 1.40E-06 |
| 450 | 259473.01 | 4085589.72 | 3.79E-06 | 5.49E-05 | 4.04E-05 | 4.04E-05 | 2.25E-05 | 5.76E-07 | 8.36E-06 | 6.31E-06 | 6.31E-06 | 3.47E-06 | 3.13E-07 | 4.52E-06 | 2.81E-06 | 2.81E-06 | 1.39E-06 |
| 451 | 259464.33 | 4085612.79 | 3.76E-06 | 5.44E-05 | 4.01E-05 | 4.01E-05 | 2.23E-05 | 5.70E-07 | 8.28E-06 | 6.26E-06 | 6.26E-06 | 3.44E-06 | 3.10E-07 | 4.48E-06 | 2.78E-06 | 2.78E-06 | 1.38E-06 |
| 452 | 259455.66 | 4085635.86 | 3.73E-06 | 5.39E-05 | 3.97E-05 | 3.97E-05 | 2.21E-05 | 5.65E-07 | 8.21E-06 | 6.20E-06 | 6.20E-06 | 3.41E-06 | 3.07E-07 | 4.44E-06 | 2.76E-06 | 2.76E-06 | 1.37E-06 |
| 453 | 259446.98 | 4085658.93 | 3.69E-06 | 5.34E-05 | 3.93E-05 | 3.93E-05 | 2.19E-05 | 5.60E-07 | 8.13E-06 | 6.14E-06 | 6.14E-06 | 3.38E-06 | 3.04E-07 | 4.40E-06 | 2.73E-06 | 2.73E-06 | 1.35E-06 |
| 454 | 259438.3 | 4085682 | 3.66E-06 | 5.29E-06 | 3.90E-05 | 3.90E-05 | 2.17E-05 | 5.55E-07 | 8.06E-06 | 6.09E-06 | 6.09E-06 | 3.35E-06 | 3.01E-07 | 4.36E-06 | 2.71E-06 | 2.71E-06 | 1.34E-06 |
| 455 | 259429.63 | 4085705.07 | 3.62E-06 | 5.24E-05 | 3.86E-05 | 3.86E-05 | 2.15E-05 | 5.50E-07 | 7.98E-06 | 6.03E-06 | 6.03E-06 | 3.32E-06 | 2.99E-07 | 4.32E-06 | 2.68E-06 | 2.68E-06 | 1.33E-06 |
| 456 | 259420.95 | 4085728.14 | 3.59E-06 | 5.19E-05 | 3.82E-05 | 3.82E-05 | 2.13E-05 | 5.44E-07 | 7.90E-06 | 5.97E-06 | 5.97E-06 | 3.28E-06 | 2.96E-07 | 4.28E-06 | 2.66E-06 | 2.66E-06 | 1.31E-06 |
| 457 | 259412.27 | 4085751.21 | 3.55E-06 | 5.13E-05 | 3.78E-05 | 3.76E-05 | 2.11E-05 | 5.38E-07 | 7.82E-06 | 5.90E-06 | 5.90E-06 | 3.25E-06 | 2.92E-07 | 4.23E-06 | 2.63E-06 | 2.63E-06 | 1.30E-06 |
| 458 | 259403.6 | 4085774.28 | 3.50E-06 | 5.07E-05 | 3.74E-05 | 3.74E-05 | 2.08E-05 | 5.32E-07 | 7.72E-06 | 5.83E-06 | 5.83E-06 | 3.21E-06 | 2.89E-07 | 4.18E-06 | 2.59E-06 | 2.59E-06 | 1.28E-06 |
| 459 | 259394.92 | 4085797.35 | 3.46E-06 | 5.00E-05 | 3.69E-05 | 3.69E-05 | 2.06E-05 | 5.25E-07 | 7.62E-06 | 5.76E-06 | 5.76E-06 | 3.17E-06 | 2.85E-07 | 4.12E-06 | 2.56E-06 | 2.56E-06 | 1.27E-06 |
| 460 | 259386.24 | 4085820.42 | 3.41E-06 | 4.93E-05 | 3.63E-05 | 3.63E-05 | 2.03E-05 | 5.17E-07 | 7.51E-06 | 5.68E-06 | 5.68E-06 | 3.12E-06 | 2.81E-07 | 4.07E-06 | 2.53E-06 | 2.53E-06 | 1.25E-06 |
| 461 | 259377.56 | 4085843.49 | 3.36E-06 | 4.86E-06 | 3.58E-05 | 3.58E-05 | 2.00E-05 | 5.10E-07 | 7.40E-06 | 5.59E-06 | 5.59E-06 | 3.07E-06 | 2.77E-07 | 4.00E-06 | 2.49E-06 | 2.49E-06 | 1.23E-06 |
| 462 | 259368.89 | 4085866.56 | 3.31E-06 | 4.78E-05 | 3.53E-05 | 3.53E-05 | 1.97E-05 | 5.02E-07 | 7.29E-06 | 5.50E-06 | 5.50E-06 | 3.03E-06 | 2.73E-07 | 3.94E-06 | 2.45E-06 | 2.45E-06 | 1.21E-06 |
| 463 | 259360.21 | 4085889.63 | 3.26E-06 | 4.71E-05 | 3.47E-05 | 3.47E-05 | 1.94E-05 | 4.94E-07 | 7.16E-06 | 5.42E-06 | 5.42E-06 | 2.98E-06 | 2.69E-07 | 3.88E-06 | 2.41E-06 | 2.41E-06 | 1.19E-06 |
| 464 | 259351.53 | 4085912.7 | 3.21E-06 | 4.65E-05 | 3.43E-05 | 3.43E-05 | 1.91E-05 | 4.88E-07 | 7.08E-06 | 5.35E-06 | 5.35E-06 | 2.94E-06 | 2.65E-07 | 3.83E-06 | 2.38E-06 | 2.38E-06 | 1.18E-06 |
| 465 | 259342.86 | 4085935.77 | 3.17E-06 | 4.58E-05 | 3.38E-05 | 3.38E-05 | 1.88E-06 | 4.81E-07 | 6.98E-06 | 5.26E-06 | 5.28E-06 | 2.90E-06 | 2.61E-07 | 3.76E-06 | 2.35E-06 | 2.35E-06 | 1.16E-06 |
| 466 | 259334.18 | 4085958.84 | 3.14E-06 | 4.53E-05 | 3.34E-05 | 3.34E-05 | 1.86E-05 | 4.76E-07 | 6.91E-06 | 5.22E-06 | 5.22E-06 | 2.87E-06 | 2.58E-07 | 3.74E-06 | 2.32E-06 | 2.32E-06 | 1.15E-06 |
| 467 | 259325.5 | 4085981.91 | 3.10E-06 | 4.49E-05 | 3.31E-05 | 3.31E-05 | 1.85E-05 | 4.71E-07 | 6.84E-06 | 5.17E-06 | 5.17E-06 | 2.84E-06 | 2.56E-07 | 3.70E-06 | 2.30E-06 | 2.30E-06 | 1.14E-06 |
| 468 | 259294.45 | 4086015.33 | 3.11E-06 | 4.50E-05 | 3.31E-05 | 3.31E-05 | 1.85E-05 | 4.72E-07 | 6.85E-06 | 5.17E-06 | 5.17E-06 | 2.84E-06 | 2.56E-07 | 3.71E-06 | 2.30E-06 | 2.30E-06 | 1.14E-06 |
| 469 | 259272.08 | 4086025.68 | 3.14E-06 | 4.54E-05 | 3.35E-05 | 3.35E-05 | 1.87E-06 | 4.77E-07 | 6.92E-06 | 5.23E-06 | 5.23E-06 | 2.87E-06 | 2.59E-07 | 3.75E-06 | 2.33E-06 | 2.33E-06 | 1.15E-06 |
| 470 | 259249.71 | 4086036.02 | 3.17E-06 | 4.59E-05 | 3.38E-05 | 3.36E-05 | 1.89E-05 | 4.82E-07 | 6.99E-06 | 5.28E-06 | 5.28E-06 | 2.90E-06 | 2.62E-07 | 3.78E-06 | 2.35E-06 | 2.35E-06 | 1.16E-06 |
| 471 | 259227.34 | 4086046.37 | 3.21E-06 | 4.64E-05 | 3.42E-05 | 3.42E-05 | 1.91E-06 | 4.87E-07 | 7.07E-06 | 5.34E-06 | 5.34E-06 | 2.94E-06 | 2.65E-07 | 3.83E-06 | 2.38E-06 | 2.38E-06 | 1.18E-06 |
| 472 | 259204.97 | 4086056.71 | 3.24E-06 | 4.69E-05 | 3.46E-05 | 3.46E-05 | 1.93E-06 | 4.92E-07 | 7.14E-06 | 5.40E-06 | 5.40E-06 | 2.97E-06 | 2.67E-07 | 3.86E-06 | 2.40E-06 | 2.40E-06 | 1.19E-06 |
| 473 | 259182.6 | 4086067.06 | 3.27E-06 | 4.74E-05 | 3.49E-05 | 3.49E-05 | 1.95E-05 | 4.97E-07 | 7.22E-06 | 5.45E-06 | 5.45E-06 | 3.00E-06 | 2.70E-07 | 3.90E-06 | 2.42E-06 | 2.42E-06 | 1.20E-06 |
| 474 | 259160.23 | 4086077.41 | 3.31E-06 | 4.78E-05 | 3.53E-05 | 3.53E-05 | 1.97E-05 | 5.02E-07 | 7.29E-06 | 5.50E-06 | 5.50E-06 | 3.03E-06 | 2.73E-07 | 3.94E-06 | 2.45E-06 | 2.45E-06 | 1.21E-06 |
| 475 | 259137.86 | 4086087.75 | 3.35E-06 | 4.84E-05 | 3.57E-05 | 3.57E-05 | 1.99E-05 | 5.08E-07 | 7.37E-06 | 5.57E-06 | 5.57E-06 | 3.06E-06 | 2.76E-07 | 3.99E-06 | 2.48E-06 | 2.48E-06 | 1.23E-06 |
| 476 | 259115.49 | 4086098.1 | 3.39E-06 | 4.90E-05 | 3.61E-05 | 3.61E-05 | 2.01E-05 | 5.14E-07 | 7.46E-06 | 5.64E-06 | 5.64E-06 | 3.10E-06 | 2.79E-07 | 4.04E-06 | 2.51E-06 | 2.51E-06 | 1.24E-06 |
| 477 | 259093.11 | 4086108.45 | 3.43E-06 | 4.96E-05 | 3.66E-05 | 3.66E-05 | 2.04E-05 | 5.21E-07 | 7.56E-06 | 5.71E-06 | 5.71E-06 | 3.14E-06 | 2.83E-07 | 4.09E-06 | 2.54E-06 | 2.54E-06 | 1.26E-06 |
| 478 | 259070.74 | 4086118.79 | 3.48E-06 | 5.03E-05 | 3.71E-05 | 3.71E-05 | 2.07E-05 | 5.26E-07 | 7.66E-06 | 5.79E-06 | 5.79E-06 | 3.18E-06 | 2.87E-07 | 4.15E-06 | 2.58E-06 | 2.58E-06 | 1.27E-06 |
| 479 | 259048.37 | 4086129.14 | 3.53E-06 | 5.11E-05 | 3.76E-05 | 3.76E-05 | 2.10E-05 | 5.36E-07 | 7.78E-06 | 5.88E-06 | 5.88E-06 | 3.23E-06 | 2.91E-07 | 4.21E-06 | 2.61E-06 | 2.61E-06 | 1.29E-06 |
| 480 | 259026 | 4086139.49 | 3.59E-06 | 5.19E-05 | 3.83E-05 | 3.83E-05 | 2.13E-05 | 5.45E-07 | 7.91E-06 | 5.98E-06 | 5.98E-06 | 3.29E-06 | 2.96E-07 | 4.28E-06 | 2.66E-06 | 2.66E-06 | 1.32E-06 |
| 481 | 259003.63 | 4086149.83 | 3.66E-06 | 5.29E-05 | 3.90E-05 | 3.90E-05 | 2.17E-05 | 5.55E-07 | 8.06E-06 | 6.09E-06 | 6.09E-06 | 3.35E-06 | 3.01E-07 | 4.36E-06 | 2.71E-06 | 2.71E-06 | 1.34E-06 |
| 482 | 258981.26 | 4086160.18 | 3.73E-06 | 5.40E-05 | 3.98E-05 | 3.98E-05 | 2.22E-05 | 5.67E-07 | 8.23E-06 | 6.21E-06 | 6.21E-06 | 3.42E-05 | 3.08E-07 | 4.45E-06 | 2.76E-06 | 2.76E-06 | 1.37E-06 |
| 483 | 258958.89 | 4086170.52 | 3.82E-06 | 5.52E-05 | 4.07E-05 | 4.07E-05 | 2.27E-05 | 5.79E-07 | 8.41E-06 | 6.35E-06 | 6.35E-06 | 3.49E-06 | 3.15E-07 | 4.55E-06 | 2.83E-06 | 2.83E-06 | 1.40E-06 |
| 484 | 258936.52 | 4086180.87 | 3.91E-06 | 5.65E-05 | 4.16E-05 | 4.16E-05 | 2.32E-05 | 5.93E-07 | 8.61E-06 | 6.50E-06 | 6.50E-06 | 3.57E-06 | 3.22E-07 | 4.66E-06 | 2.89E-06 | 2.89E-06 | 1.43E-06 |
| 485 | 258914.15 | 4086191.22 | 4.00E-06 | 5.78E-05 | 4.26E-05 | 4.26E-05 | 2.37E-05 | 6.06E-07 | 8.80E-06 | 6.65E-06 | 6.65E-06 | 3.66E-06 | 3.29E-07 | 4.76E-06 | 2.96E-06 | 2.96E-06 | 1.46E-06 |
| 486 | 258891.77 | 4086201.56 | 4.08E-06 | 5.91E-05 | 4.35E-05 | 4.35E-05 | 2.43E-05 | 6.20E-07 | 9.00E-06 | 6.80E-06 | 6.80E-06 | 3.74E-06 | 3.37E-07 | 4.87E-06 | 3.02E-06 | 3.02E-06 | 1.50E-06 |
| 487 | 258869.4 | 4086211.91 | 4.17E-06 | 6.03E-05 | 4.44E-05 | 4.44E-05 | 2.48E-05 | 6.33E-07 | 9.18E-06 | 6.94E-06 | 6.94E-06 | 3.81E-06 | 3.44E-07 | 4.97E-06 | 3.09E-06 | 3.09E-06 | 1.53E-06 |
| 488 | 258847.03 | 4086222.26 | 4.24E-06 | 6.13E-05 | 4.52E-05 | 4.52E-05 | 2.52E-05 | 6.43E-07 | 9.34E-06 | 7.06E-06 | 7.06E-06 | 3.88E-06 | 3.49E-07 | 5.05E-06 | 3.14E-06 | 3.14E-06 | 1.55E-06 |
| 489 | 258824.66 | 4086232.6 | 4.30E-06 | 6.22E-06 | 4.59E-05 | 4.59E-05 | 2.56E-05 | 6.53E-07 | 9.48E-06 | 7.16E-06 | 7.16E-06 | 3.94E-06 | 3.55E-07 | 5.13E-06 | 3.19E-06 | 3.19E-06 | 1.58E-06 |
| 490 | 258802.29 | 4086242.95 | 4.35E-06 | 6.30E-05 | 4.64E-05 | 4.64E-05 | 2.59E-05 | 6.61E-07 | 9.59E-06 | 7.25E-06 | 7.25E-06 | 3.98E-06 | 3.59E-07 | 5.19E-06 | 3.22E-06 | 3.22E-06 | 1.60E-06 |
| 491 | 258779.92 | 4086253.3 | 4.40E-06 | 6.36E-06 | 4.69E-05 | 4.69E-05 | 2.61E-05 | 6.67E-07 | 9.69E-06 | 7.32E-06 | 7.32E-06 | 4.02E-06 | 3.62E-07 | 5.24E-06 | 3.26E-06 | 3.26E-06 | 1.61E-06 |
| 492 | 258757.55 | 4086263.64 | 4.43E-06 | 6.41E-05 | 4.72E-05 | 4.72E-05 | 2.63E-05 | 6.72E-07 | 9.76E-06 | 7.37E-06 | 7.37E-06 | 4.05E-06 | 3.65E-07 | 5.28E-06 | 3.28E-06 | 3.28E-06 | 1.62E-06 |
| 493 | 258735.18 | 4086273.99 | 4.46E-06 | 6.45E-05 | 4.76E-05 | 4.76E-05 | 2.65E-06 | 6.77E-07 | 9.83E-06 | 7.43E-06 | 7.43E-06 | 4.08E-06 | 3.68E-07 | 5.32E-06 | 3.30E-06 | 3.30E-06 | 1.64E-06 |
| 494 | 258712.81 | 4086284.33 | 4.49E-06 | 6.49E-05 | 4.78E-05 | 4.78E-05 | 2.67E-05 | 6.81E-07 | 9.89E-06 | 7.47E-06 | 7.47E-06 | 4.11E-06 | 3.70E-07 | 5.35E-06 | 3.32E-06 | 3.32E-06 | 1.64E-06 |
| 495 | 258690.43 | 4085294.68 | 4.51E-06 | 6.53E-05 | 4.81E-05 | 4.81E-05 | 2.68E-05 | 6.85E-07 | 9.95E-06 | 7.51E-06 | 7.51E-06 | 4.13E-06 | 3.72E-07 | 5.38E-06 | 3.34E-06 | 3.34E-06 | 1.65E-06 |
| 496 | 258668.06 | 4086305.03 | 4.54E-06 | 6.57E-05 | 4.85E-05 | 4.85E-05 | 2.70E-05 | 6.90E-07 | 1.00E-05 | 7.56E-06 | 7.56E-06 | 4.16E-06 | 3.75E-07 | 5.42E-06 | 3.37E-06 | 3.37E-06 | 1.67E-06 |
| 497 | 258645.69 | 4086315.37 | 4.58E-06 | 6.62E-05 | 4.88E-05 | 4.88E-05 | 2.72E-05 | 6.95E-07 | 1.01E-05 | 7.62E-06 | 7.62E-06 | 4.19E-06 | 3.77E-07 | 5.46E-06 | 3.39E-06 | 3.39E-06 | 1.68E-06 |
| 498 | 258623.32 | 4086325.72 | 4.62E-06 | 6.68E-05 | 4.92E-05 | 4.92E-05 | 2.74E-05 | 7.01E-07 | 1.02E-05 | 7.68E-06 | 7.68E-06 | 4.22E-06 | 3.81E-07 | 5.50E-06 | 3.42E-06 | 3.42E-06 | 1.69E-06 |
| 499 | 258600.95 | 4086336.07 | 4.66E-06 | 6.74E-05 | 4.97E-05 | 4.97E-05 | 2.77E-05 | 7.07E-07 | 1.03E-05 | 7.76E-06 | 7.76E-06 | 4.26E-06 | 3.84E-07 | 5.56E-06 | 3.45E-06 | 3.45E-06 | 1.71E-06 |
| 500 | 258578.58 | 4086346.41 | 4.71E-06 | 6.81E-05 | 5.02E-05 | 5.02E-05 | 2.80E-05 | 7.15E-07 | 1.04E-05 | 7.84E-06 | 7.84E-06 | 4.31E-06 | 3.88E-07 | 5.61E-06 | 3.49E-06 | 3.49E-06 | 1.73E-06 |
| 501 | 258556.21 | 4086356.76 | 4.76E-06 | 6.88E-05 | 5.07E-05 | 5.07E-05 | 2.83E-05 | 7.22E-07 | 1.05E-06 | 7.92E-06 | 7.92E-06 | 4.36E-06 | 3.92E-07 | 5.68E-06 | 3.53E-06 | 3.53E-06 | 1.74E-06 |
| 502 | 258533.84 | 4086367.11 | 4.82E-06 | 6.96E-06 | 5.13E-05 | 5.13E-05 | 2.86E-05 | 7.31E-07 | 1.06E-05 | 8.02E-06 | 8.02E-06 | 4.41E-06 | 3.97E-07 | 5.74E-06 | 3.57E-06 | 3.57E-06 | 1.77E-06 |
| 503 | 258511.47 | 4086377.45 | 4.87E-06 | 7.05E-05 | 5.19E-05 | 5.19E-05 | 2.90E-05 | 7.40E-07 | 1.07E-05 | 8.11E-06 | 8.11E-06 | 4.46E-06 | 4.02E-07 | 5.81E-06 | 3.61E-06 | 3.61E-06 | 1.79E-06 |
| 504 | 258489.09 | 4086387.8 | 4.93E-06 | 7.13E-05 | 5.26E-05 | 5.26E-05 | 2.93E-05 | 7.49E-07 | 1.09E-05 | 8.21E-06 | 8.21E-06 | 4.51E-06 | 4.07E-07 | 5.88E-06 | 3.65E-06 | 3.65E-06 | 1.81E-06 |
| 505 | 258466.72 | 4086398.14 | 4.99E-06 | 7.22E-05 | 5.32E-05 | 5.32E-05 | 2.97E-05 | 7.58E-07 | 1.10E-05 | 8.31E-06 | 8.31E-06 | 4.57E-06 | 4.12E-07 | 5.95E-06 | 3.70E-06 | 3.70E-06 | 1.83E-06 |
| 506 | 258444.35 | 4086408.49 | 5.05E-06 | 7.31E-05 | 5.39E-05 | 5.39E-05 | 3.00E-05 | 7.67E-07 | 1.11E-05 | 8.41E-06 | 8.41E-06 | 4.62E-06 | 4.17E-07 | 6.02E-06 | 3.74E-06 | 3.74E-06 | 1.85E-06 |
| 507 | 259663.91 | 4085082.19 | 5.03E-06 | 7.27E-05 | 5.36E-05 | 5.36E-05 | 2.99E-05 | 7.63E-07 | 1.11E-05 | 8.37E-06 | 8.37E-06 | 4.60E-06 | 4.14E-07 | 5.99E-06 | 3.72E-06 | 3.72E-06 | 1.84E-06 |
| 508 | 259663.18 | 4085057.43 | 5.10E-06 | 7.38E-05 | 5.44E-05 | 5.44E-05 | 3.03E-05 | 7.74E-07 | 1.12E-05 | 8.49E-06 | 8.49E-06 | 4.67E-06 | 4.21E-07 | 6.08E-06 | 3.78E-06 | 3.78E-06 | 1.87E-06 |
| 509 | 259662.46 | 4085032.67 | 5.20E-06 | 7.52E-05 | 5.54E-05 | 5.54E-05 | 3.09E-05 | 7.89E-07 | 1.15E-05 | 8.65E-06 | 8.65E-06 | 4.76E-06 | 4.28E-07 | 6.20E-06 | 3.85E-06 | 3.85E-06 | 1.90E-06 |
| 510 | 259661.74 | 4085007.92 | 5.31E-06 | 7.68E-06 | 5.66E-05 | 5.66E-05 | 3.16E-05 | 8.06E-07 | 1.17E-05 | 8.84E-06 | 8.84E-06 | 4.86E-06 | 4.38E-07 | 6.33E-06 | 3.93E-06 | 3.93E-06 | 1.95E-06 |
| 511 | 259661.02 | 4084983.16 | 5.45E-06 | 7.88E-05 | 5.81E-05 | 5.81E-05 | 3.24E-05 | 8.27E-07 | 1.20E-05 | 9.07E-06 | 9.07E-06 | 4.99E-06 | 4.49E-07 | 6.50E-06 | 4.04E-06 | 4.04E-06 | 2.00E-06 |
| 512 | 259660.29 | 4084958.4 | 5.61E-06 | 8.11E-05 | 5.98E-05 | 5.98E-05 | 3.33E-05 | 8.51E-07 | 1.24E-05 | 9.34E-06 | 9.34E-06 | 5.13E-06 | 4.62E-07 | 6.69E-06 | 4.15E-06 | 4.15E-06 | 2.06E-06 |
| 513 | 259659.57 | 4084933.65 | 5.79E-06 | 8.37E-05 | 6.17E-05 | 6.17E-05 | 3.44E-05 | 8.79E-07 | 1.28E-05 | 9.64E-06 | 9.64E-06 | 5.30E-06 | 4.77E-07 | 6.90E-06 | 4.29E-06 | 4.29E-06 | 2.12E-06 |
| 514 | 259658.85 | 4084908.89 | 5.97E-06 | 8.64E-06 | 6.37E-05 | 6.37E-05 | 3.55E-05 | 9.07E-07 | 1.32E-05 | 9.94E-06 | 9.94E-06 | 5.47E-06 | 4.92E-07 | 7.12E-06 | 4.42E-06 | 4.42E-06 | 2.19E-06 |
| 515 | 259658.13 | 4084884.14 | 6.16E-06 | 8.91E-05 | 6.56E-05 | 6.56E-06 | 3.66E-05 | 9.35E-07 | 1.36E-05 | 1.02E-05 | 1.02E-05 | 5.63E-06 | 5.08E-07 | 7.34E-06 | 4.56E-06 | 4.56E-06 | 2.26E-06 |
| 516 | 259855.12 | 4085099.5 | 4.19E-06 | 6.06E-06 | 4.47E-05 | 4.47E-06 | 2.49E-05 | 6.36E-07 | 9.23E-06 | 6.97E-06 | 6.97E-06 | 3.83E-06 | 3.45E-07 | 5.00E-06 | 3.10E-06 | 3.10E-06 | 1.54E-06 |
| 517 | 259846.41 | 4085122.65 | 4.19E-06 | 6.06E-05 | 4.46E-05 | 4.46E-05 | 2.49E-05 | 6.36E-07 | 9.23E-06 | 6.97E-06 | 6.97E-06 | 3.83E-06 | 3.45E-07 | 4.99E-06 | 3.10E-06 | 3.10E-06 | 1.54E-06 |
| 518 | 259837.7 | 4085145.79 | 4.19E-06 | 6.06E-05 | 4.46E-05 | 4.46E-05 | 2.49E-05 | 6.36E-07 | 9.23E-06 | 6.97E-06 | 6.97E-06 | 3.83E-06 | 3.45E-07 | 4.99E-06 | 3.10

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 312 | 259075.28 | 4085595.82 | 5.47E-06 | 7.92E-05 | 5.83E-05 | 5.83E-05 | 3.25E-05 | 8.31E-07 | 1.21E-05 | 9.11E-06 | 9.11E-06 | 5.01E-06 | 4.51E-07 | 6.53E-06 | 4.05E-06 | 4.05E-06 | 2.01E-06 |
| 313 | 259066.7 | 4085618.63 | 5.37E-06 | 7.76E-05 | 5.72E-05 | 5.72E-05 | 3.19E-05 | 8.14E-07 | 1.18E-05 | 8.93E-06 | 8.93E-06 | 4.91E-06 | 4.42E-07 | 6.40E-06 | 3.97E-06 | 3.97E-06 | 1.97E-06 |
| 314 | 259058.12 | 4085641.45 | 5.26E-06 | 7.61E-05 | 5.61E-05 | 5.61E-05 | 3.13E-05 | 7.99E-07 | 1.16E-05 | 8.76E-06 | 8.76E-06 | 4.82E-06 | 4.34E-07 | 6.28E-06 | 3.90E-06 | 3.90E-06 | 1.93E-06 |
| 315 | 259049.53 | 4085664.27 | 5.17E-06 | 7.47E-05 | 5.51E-05 | 5.51E-05 | 3.07E-05 | 7.84E-07 | 1.14E-05 | 8.60E-06 | 8.60E-06 | 4.73E-06 | 4.26E-07 | 6.16E-06 | 3.83E-06 | 3.83E-06 | 1.89E-06 |
| 316 | 259040.95 | 4085687.08 | 5.08E-06 | 7.34E-05 | 5.41E-05 | 5.41E-05 | 3.02E-05 | 7.70E-07 | 1.12E-05 | 8.45E-06 | 8.45E-06 | 4.64E-06 | 4.18E-07 | 6.05E-06 | 3.76E-06 | 3.76E-06 | 1.86E-06 |
| 317 | 259032.37 | 4085709.9 | 4.99E-06 | 7.22E-05 | 5.32E-05 | 5.32E-05 | 2.97E-05 | 7.58E-07 | 1.10E-05 | 8.31E-06 | 8.31E-06 | 4.57E-06 | 4.11E-07 | 5.95E-06 | 3.70E-06 | 3.70E-06 | 1.83E-06 |
| 318 | 259001.66 | 4085742.95 | 4.93E-06 | 7.20E-05 | 5.30E-05 | 5.30E-05 | 2.96E-05 | 7.55E-07 | 1.10E-05 | 8.28E-06 | 8.28E-06 | 4.55E-06 | 4.10E-07 | 5.93E-06 | 3.68E-06 | 3.88E-06 | 1.82E-06 |
| 319 | 258979.54 | 4085753.18 | 5.04E-06 | 7.29E-06 | 5.37E-06 | 5.37E-05 | 2.99E-05 | 7.65E-07 | 1.11E-06 | 8.39E-06 | 8.39E-06 | 4.61E-06 | 4.15E-07 | 6.01E-06 | 3.73E-06 | 3.73E-06 | 1.85E-06 |
| 320 | 258957.41 | 4085763.41 | 5.11E-06 | 7.39E-06 | 5.44E-05 | 5.44E-05 | 3.03E-05 | 7.75E-07 | 1.13E-05 | 8.50E-06 | 8.50E-06 | 4.67E-06 | 4.21E-07 | 6.09E-06 | 3.78E-06 | 3.78E-06 | 1.87E-06 |
| 321 | 258935.29 | 4085773.65 | 5.18E-06 | 7.49E-05 | 5.52E-05 | 5.52E-05 | 3.08E-05 | 7.86E-07 | 1.14E-05 | 8.62E-06 | 8.62E-06 | 4.74E-06 | 4.27E-07 | 6.17E-06 | 3.83E-06 | 3.83E-06 | 1.90E-06 |
| 322 | 258913.16 | 4085783.88 | 5.25E-06 | 7.60E-05 | 5.60E-05 | 5.60E-05 | 3.12E-05 | 7.97E-07 | 1.16E-05 | 8.75E-06 | 8.75E-06 | 4.81E-06 | 4.33E-07 | 6.26E-06 | 3.89E-05 | 3.89E-06 | 1.93E-06 |
| 323 | 258891.04 | 4085794.11 | 5.34E-06 | 7.72E-05 | 5.69E-05 | 5.69E-05 | 3.17E-05 | 8.10E-07 | 1.18E-05 | 8.88E-06 | 8.88E-06 | 4.88E-06 | 4.40E-07 | 6.36E-06 | 3.95E-06 | 3.95E-06 | 1.96E-06 |
| 324 | 258868.91 | 4085804.34 | 5.42E-06 | 7.84E-05 | 5.78E-05 | 5.78E-05 | 3.22E-05 | 8.23E-07 | 1.20E-05 | 9.03E-06 | 9.03E-06 | 4.96E-06 | 4.47E-07 | 6.47E-06 | 4.02E-06 | 4.02E-06 | 1.99E-05 |
| 325 | 258846.79 | 4085814.58 | 5.52E-06 | 7.99E-05 | 5.89E-05 | 5.89E-05 | 3.28E-05 | 8.38E-07 | 1.22E-05 | 9.19E-06 | 9.19E-06 | 5.05E-06 | 4.55E-07 | 6.58E-06 | 4.09E-05 | 4.09E-06 | 2.02E-06 |
| 326 | 258824.66 | 4085824.81 | 5.64E-06 | 8.15E-05 | 6.01E-05 | 6.01E-05 | 3.35E-05 | 8.55E-07 | 1.24E-05 | 9.38E-05 | 9.38E-06 | 5.16E-06 | 4.64E-07 | 6.72E-06 | 4.17E-06 | 4.17E-06 | 2.07E-05 |
| 327 | 258802.54 | 4085835.04 | 5.76E-06 | 8.33E-05 | 6.14E-05 | 6.14E-05 | 3.42E-05 | 8.74E-07 | 1.27E-05 | 9.58E-06 | 9.58E-06 | 5.27E-06 | 4.75E-07 | 6.86E-06 | 4.26E-05 | 4.26E-06 | 2.11E-06 |
| 328 | 258780.41 | 4085845.27 | 5.89E-06 | 8.52E-05 | 6.28E-05 | 6.28E-05 | 3.50E-05 | 8.94E-07 | 1.30E-05 | 9.81E-05 | 9.81E-06 | 5.39E-06 | 4.86E-07 | 7.02E-06 | 4.36E-05 | 4.36E-06 | 2.16E-06 |
| 329 | 258758.29 | 4085855.51 | 6.04E-06 | 8.73E-05 | 6.44E-05 | 6.44E-05 | 3.59E-05 | 9.16E-07 | 1.33E-05 | 1.00E-05 | 1.00E-05 | 5.52E-06 | 4.98E-07 | 7.20E-06 | 4.47E-06 | 4.47E-06 | 2.21E-06 |
| 330 | 258736.16 | 4085865.74 | 6.18E-06 | 8.94E-05 | 6.59E-05 | 6.59E-05 | 3.67E-05 | 9.38E-07 | 1.36E-06 | 1.03E-05 | 1.03E-05 | 5.66E-06 | 5.09E-07 | 7.37E-06 | 4.58E-06 | 4.58E-06 | 2.27E-05 |
| 331 | 258714.04 | 4085875.97 | 6.31E-06 | 9.13E-05 | 6.73E-05 | 6.73E-05 | 3.75E-05 | 9.58E-07 | 1.39E-05 | 1.05E-05 | 1.05E-05 | 5.78E-06 | 5.20E-07 | 7.53E-06 | 4.68E-06 | 4.68E-06 | 2.31E-05 |
| 332 | 258691.91 | 4085886.2 | 6.44E-06 | 9.31E-05 | 6.87E-05 | 6.87E-05 | 3.83E-05 | 9.77E-07 | 1.42E-05 | 1.07E-05 | 1.07E-05 | 5.89E-06 | 5.31E-07 | 7.68E-06 | 4.77E-06 | 4.77E-06 | 2.36E-06 |
| 333 | 258669.79 | 4085896.44 | 6.55E-06 | 9.47E-05 | 6.98E-05 | 6.98E-05 | 3.89E-05 | 9.94E-07 | 1.44E-05 | 1.09E-05 | 1.09E-05 | 5.99E-06 | 5.40E-07 | 7.81E-06 | 4.85E-06 | 4.85E-06 | 2.40E-05 |
| 334 | 258647.66 | 4085906.67 | 6.65E-06 | 9.62E-05 | 7.09E-05 | 7.09E-05 | 3.95E-05 | 1.01E-06 | 1.47E-05 | 1.11E-05 | 1.11E-05 | 6.09E-06 | 5.48E-07 | 7.93E-06 | 4.93E-06 | 4.93E-06 | 2.44E-06 |
| 335 | 258625.54 | 4085916.9 | 6.75E-06 | 9.76E-05 | 7.19E-05 | 7.19E-05 | 4.01E-05 | 1.02E-06 | 1.49E-05 | 1.12E-05 | 1.12E-05 | 6.17E-06 | 5.56E-07 | 8.04E-06 | 5.00E-06 | 5.00E-06 | 2.47E-06 |
| 336 | 258603.41 | 4085927.13 | 6.84E-06 | 9.89E-05 | 7.29E-05 | 7.29E-05 | 4.07E-05 | 1.04E-06 | 1.51E-05 | 1.14E-05 | 1.14E-05 | 6.26E-06 | 5.64E-07 | 8.15E-06 | 5.07E-06 | 5.07E-06 | 2.51E-06 |
| 337 | 258581.28 | 4085937.37 | 6.93E-06 | 1.00E-04 | 7.39E-05 | 7.39E-05 | 4.12E-05 | 1.05E-06 | 1.53E-05 | 1.15E-05 | 1.15E-05 | 6.35E-06 | 5.72E-07 | 8.27E-06 | 5.14E-06 | 5.14E-06 | 2.54E-06 |
| 338 | 258559.16 | 4085947.6 | 7.03E-06 | 1.02E-04 | 7.50E-05 | 7.50E-05 | 4.18E-05 | 1.07E-06 | 1.55E-05 | 1.17E-05 | 1.17E-05 | 6.44E-06 | 5.80E-07 | 8.38E-06 | 5.21E-06 | 5.21E-06 | 2.58E-06 |
| 339 | 258537.03 | 4085957.83 | 7.14E-06 | 1.03E-04 | 7.61E-05 | 7.61E-05 | 4.24E-05 | 1.08E-06 | 1.57E-05 | 1.19E-05 | 1.19E-05 | 6.53E-06 | 5.88E-07 | 8.51E-06 | 5.29E-06 | 5.29E-06 | 2.62E-06 |
| 340 | 258514.91 | 4085968.07 | 7.25E-06 | 1.05E-04 | 7.73E-05 | 7.73E-05 | 4.31E-05 | 1.10E-06 | 1.60E-05 | 1.21E-05 | 1.21E-05 | 6.63E-06 | 5.98E-07 | 8.64E-06 | 5.37E-06 | 5.37E-06 | 2.66E-06 |
| 341 | 258492.78 | 4085978.3 | 7.37E-06 | 1.07E-04 | 7.85E-05 | 7.85E-05 | 4.38E-05 | 1.12E-06 | 1.62E-05 | 1.23E-05 | 1.23E-06 | 6.74E-06 | 6.07E-07 | 8.78E-06 | 5.46E-06 | 5.46E-06 | 2.70E-06 |
| 342 | 258470.66 | 4085988.53 | 7.49E-06 | 1.08E-04 | 7.98E-05 | 7.98E-05 | 4.45E-05 | 1.14E-06 | 1.65E-05 | 1.25E-05 | 1.25E-05 | 6.85E-06 | 6.17E-07 | 8.93E-06 | 5.54E-06 | 5.54E-06 | 2.74E-06 |
| 343 | 258448.53 | 4085998.76 | 7.61E-06 | 1.10E-04 | 8.11E-05 | 8.11E-05 | 4.52E-05 | 1.16E-06 | 1.68E-05 | 1.27E-05 | 1.27E-05 | 6.96E-06 | 6.27E-07 | 9.07E-06 | 5.64E-06 | 5.64E-06 | 2.79E-06 |
| 344 | 258426.41 | 4086009 | 7.74E-06 | 1.12E-04 | 8.25E-05 | 8.25E-05 | 4.60E-05 | 1.17E-06 | 1.70E-05 | 1.29E-05 | 1.29E-05 | 7.08E-06 | 6.38E-07 | 9.22E-06 | 5.73E-06 | 5.73E-06 | 2.84E-06 |
| 345 | 259264.08 | 4085093.86 | 8.16E-06 | 1.18E-04 | 8.70E-05 | 8.70E-05 | 4.85E-05 | 1.24E-06 | 1.80E-05 | 1.36E-05 | 1.36E-05 | 7.46E-06 | 6.72E-07 | 9.73E-06 | 6.04E-06 | 6.04E-06 | 2.99E-06 |
| 346 | 259263.35 | 4085069.1 | 8.37E-06 | 1.21E-04 | 8.92E-05 | 8.92E-05 | 4.97E-05 | 1.27E-06 | 1.84E-05 | 1.39E-05 | 1.39E-06 | 7.66E-06 | 6.90E-07 | 9.98E-06 | 6.20E-06 | 6.20E-06 | 3.07E-06 |
| 347 | 259262.63 | 4085044.34 | 8.61E-06 | 1.25E-04 | 9.18E-05 | 9.18E-05 | 5.12E-05 | 1.31E-06 | 1.90E-05 | 1.43E-05 | 1.43E-05 | 7.88E-06 | 7.10E-07 | 1.03E-05 | 6.38E-06 | 6.38E-06 | 3.16E-06 |
| 348 | 259261.91 | 4085019.59 | 8.89E-06 | 1.29E-04 | 9.47E-06 | 9.47E-05 | 5.28E-05 | 1.35E-06 | 1.96E-05 | 1.48E-05 | 1.48E-05 | 8.13E-06 | 7.33E-07 | 1.06E-05 | 6.58E-06 | 6.58E-06 | 3.26E-06 |
| 349 | 259261.19 | 4084994.83 | 9.20E-06 | 1.33E-04 | 9.81E-05 | 9.81E-05 | 5.47E-05 | 1.40E-06 | 2.03E-05 | 1.53E-05 | 1.53E-05 | 8.42E-06 | 7.59E-07 | 1.10E-05 | 6.82E-06 | 6.82E-06 | 3.37E-06 |
| 350 | 259260.46 | 4084970.07 | 9.56E-06 | 1.38E-04 | 1.02E-04 | 1.02E-04 | 5.68E-05 | 1.45E-06 | 2.11E-05 | 1.59E-05 | 1.59E-05 | 8.75E-06 | 7.88E-07 | 1.14E-05 | 7.08E-06 | 7.08E-06 | 3.50E-06 |
| 351 | 259259.74 | 4084945.32 | 9.94E-06 | 1.44E-04 | 1.06E-04 | 1.06E-04 | 5.91E-05 | 1.51E-06 | 2.19E-05 | 1.65E-06 | 1.65E-05 | 9.09E-06 | 8.19E-07 | 1.18E-05 | 7.36E-06 | 7.36E-06 | 3.64E-06 |
| 352 | 259259.02 | 4084920.56 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.14E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.46E-06 | 8.52E-07 | 1.23E-05 | 7.65E-06 | 7.65E-06 | 3.79E-06 |
| 353 | 259258.3 | 4084895.81 | 1.07E-05 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 6.38E-05 | 1.63E-06 | 2.37E-05 | 1.79E-05 | 1.79E-05 | 9.83E-06 | 8.85E-07 | 1.28E-05 | 7.95E-06 | 7.95E-06 | 3.94E-05 |
| 354 | 259455.35 | 4085110.99 | 6.21E-06 | 8.98E-05 | 6.62E-05 | 6.62E-05 | 3.69E-05 | 9.42E-07 | 1.37E-05 | 1.03E-05 | 1.03E-05 | 5.68E-06 | 5.12E-07 | 7.40E-06 | 4.60E-06 | 4.60E-06 | 2.28E-06 |
| 355 | 259446.72 | 4085133.95 | 6.18E-06 | 8.94E-05 | 6.59E-05 | 6.59E-05 | 3.67E-05 | 9.38E-07 | 1.36E-05 | 1.03E-05 | 1.03E-05 | 5.65E-06 | 5.09E-07 | 7.37E-06 | 4.58E-06 | 4.58E-06 | 2.26E-06 |
| 356 | 259438.08 | 4085156.92 | 6.14E-06 | 8.88E-05 | 6.54E-05 | 6.54E-05 | 3.65E-05 | 9.32E-07 | 1.35E-05 | 1.02E-05 | 1.02E-06 | 5.62E-06 | 5.06E-07 | 7.32E-06 | 4.55E-06 | 4.55E-06 | 2.25E-06 |
| 357 | 259429.44 | 4085179.88 | 6.09E-06 | 8.81E-05 | 6.49E-05 | 6.49E-05 | 3.62E-05 | 9.24E-07 | 1.34E-05 | 1.01E-05 | 1.01E-05 | 5.57E-06 | 5.02E-07 | 7.28E-06 | 4.51E-06 | 4.51E-06 | 2.23E-06 |
| 358 | 259420.8 | 4085202.85 | 6.02E-06 | 8.70E-05 | 6.42E-05 | 6.42E-05 | 3.58E-05 | 9.13E-07 | 1.33E-05 | 1.00E-05 | 1.00E-05 | 5.51E-06 | 4.96E-07 | 7.18E-06 | 4.46E-06 | 4.46E-06 | 2.21E-06 |
| 359 | 259412.17 | 4085225.81 | 5.93E-06 | 8.58E-05 | 6.32E-05 | 6.32E-05 | 3.52E-05 | 9.00E-07 | 1.31E-05 | 9.87E-06 | 9.87E-06 | 5.43E-06 | 4.89E-07 | 7.07E-06 | 4.39E-06 | 4.39E-06 | 2.17E-06 |
| 360 | 259403.53 | 4085248.78 | 5.83E-06 | 8.43E-06 | 6.21E-05 | 6.21E-05 | 3.46E-05 | 8.84E-07 | 1.28E-05 | 9.70E-06 | 9.70E-06 | 5.33E-06 | 4.80E-07 | 6.95E-06 | 4.32E-06 | 4.32E-06 | 2.14E-06 |
| 361 | 259394.89 | 4085271.74 | 5.71E-06 | 8.26E-05 | 6.09E-05 | 6.09E-05 | 3.40E-05 | 8.67E-07 | 1.26E-05 | 9.51E-06 | 9.51E-05 | 5.23E-06 | 4.71E-07 | 6.81E-06 | 4.23E-06 | 4.23E-06 | 2.09E-06 |
| 362 | 259386.25 | 4085294.71 | 5.59E-06 | 8.09E-05 | 5.96E-05 | 5.96E-05 | 3.32E-05 | 8.49E-07 | 1.23E-05 | 9.31E-06 | 9.31E-06 | 5.12E-06 | 4.61E-07 | 6.67E-06 | 4.14E-06 | 4.14E-06 | 2.05E-06 |
| 363 | 259377.61 | 4085317.68 | 5.47E-06 | 7.91E-05 | 5.83E-05 | 5.83E-05 | 3.25E-05 | 8.30E-07 | 1.20E-05 | 9.10E-06 | 9.10E-06 | 5.00E-06 | 4.51E-07 | 6.52E-06 | 4.05E-06 | 4.05E-06 | 2.00E-06 |
| 364 | 259368.96 | 4085340.64 | 5.34E-06 | 7.72E-05 | 5.69E-05 | 5.69E-06 | 3.17E-05 | 8.10E-07 | 1.18E-05 | 8.88E-06 | 8.88E-06 | 4.88E-06 | 4.40E-07 | 6.36E-06 | 3.95E-06 | 3.95E-06 | 1.96E-06 |
| 365 | 259360.34 | 4085363.61 | 5.23E-06 | 7.56E-05 | 5.57E-05 | 5.57E-05 | 3.11E-05 | 7.93E-07 | 1.15E-05 | 8.70E-06 | 8.70E-06 | 4.78E-06 | 4.31E-07 | 6.23E-06 | 3.87E-06 | 3.87E-06 | 1.92E-06 |
| 366 | 259351.7 | 4085386.57 | 5.12E-06 | 7.41E-05 | 5.46E-05 | 5.46E-05 | 3.05E-05 | 7.78E-07 | 1.13E-05 | 8.53E-06 | 8.53E-06 | 4.69E-06 | 4.22E-07 | 6.11E-06 | 3.80E-06 | 3.80E-06 | 1.88E-06 |
| 367 | 259343.06 | 4085409.54 | 5.03E-06 | 7.28E-05 | 5.36E-05 | 5.36E-05 | 2.99E-05 | 7.64E-07 | 1.11E-05 | 8.38E-06 | 8.38E-06 | 4.61E-06 | 4.15E-07 | 6.00E-06 | 3.73E-06 | 3.73E-06 | 1.84E-06 |
| 368 | 259334.43 | 4085432.5 | 4.95E-06 | 7.16E-05 | 5.28E-05 | 5.28E-05 | 2.94E-05 | 7.51E-07 | 1.09E-05 | 8.24E-06 | 8.24E-06 | 4.53E-06 | 4.08E-07 | 5.90E-06 | 3.67E-06 | 3.67E-06 | 1.81E-06 |
| 369 | 259325.79 | 4085455.47 | 4.88E-06 | 7.06E-05 | 5.20E-05 | 5.20E-05 | 2.90E-05 | 7.40E-07 | 1.08E-05 | 8.12E-06 | 8.12E-06 | 4.46E-06 | 4.02E-07 | 5.82E-06 | 3.61E-06 | 3.61E-06 | 1.79E-06 |
| 370 | 259317.15 | 4085478.43 | 4.81E-06 | 6.96E-05 | 5.13E-05 | 5.13E-05 | 2.86E-05 | 7.30E-07 | 1.06E-05 | 8.01E-06 | 8.01E-06 | 4.40E-06 | 3.97E-07 | 5.74E-06 | 3.56E-06 | 3.56E-06 | 1.76E-06 |
| 371 | 259308.51 | 4085501.4 | 4.75E-06 | 6.87E-05 | 5.06E-05 | 5.06E-05 | 2.82E-05 | 7.21E-07 | 1.05E-05 | 7.91E-06 | 7.91E-06 | 4.35E-06 | 3.92E-07 | 5.66E-06 | 3.52E-06 | 3.52E-06 | 1.74E-06 |
| 372 | 259299.87 | 4085524.37 | 4.69E-06 | 6.78E-05 | 5.00E-05 | 5.00E-05 | 2.79E-05 | 7.12E-07 | 1.03E-05 | 7.81E-06 | 7.81E-06 | 4.29E-06 | 3.87E-07 | 5.59E-06 | 3.47E-06 | 3.47E-06 | 1.72E-06 |
| 373 | 259291.24 | 4085547.33 | 4.63E-06 | 6.70E-05 | 4.94E-06 | 4.94E-05 | 2.75E-05 | 7.03E-07 | 1.02E-05 | 7.71E-06 | 7.71E-06 | 4.24E-06 | 3.82E-07 | 5.52E-06 | 3.43E-06 | 3.43E-06 | 1.70E-06 |
| 374 | 259282.6 | 4085570.3 | 4.58E-06 | 6.62E-05 | 4.88E-05 | 4.88E-05 | 2.72E-05 | 6.95E-07 | 1.01E-05 | 7.62E-06 | 7.62E-06 | 4.19E-06 | 3.77E-07 | 5.46E-06 | 3.39E-06 | 3.39E-06 | 1.68E-06 |
| 375 | 259273.96 | 4085593.26 | 4.52E-06 | 6.54E-05 | 4.82E-05 | 4.82E-05 | 2.69E-05 | 6.86E-07 | 9.96E-06 | 7.52E-06 | 7.52E-06 | 4.14E-06 | 3.73E-07 | 5.39E-06 | 3.35E-06 | 3.35E-06 | 1.66E-06 |
| 376 | 259265.32 | 4085616.23 | 4.46E-06 | 6.45E-05 | 4.76E-05 | 4.76E-06 | 2.65E-05 | 6.77E-07 | 9.83E-06 | 7.43E-06 | 7.43E-06 | 4.08E-06 | 3.68E-07 | 5.32E-06 | 3.31E-06 | 3.31E-06 | 1.64E-06 |
| 377 | 259256.69 | 4085639.19 | 4.40E-06 | 6.37E-05 | 4.69E-05 | 4.69E-05 | 2.62E-05 | 6.68E-07 | 9.70E-06 | 7.33E-06 | 7.33E-06 | 4.03E-06 | 3.63E-07 | 5.25E-06 | 3.26E-06 | 3.26E-06 | 1.61E-06 |
| 378 | 259248.05 | 4085662.16 | 4.34E-06 | 6.28E-05 | 4.63E-05 | 4.63E-05 | 2.58E-05 | 6.59E-07 | 9.56E-06 | 7.22E-06 | 7.22E-06 | 3.97E-06 | 3.68E-07 | 5.17E-06 | 3.21E-06 | 3.21E-06 | 1.59E-06 |
| 379 | 259239.41 | 4085685.12 | 4.27E-06 | 6.18E-05 | 4.56E-05 | 4.56E-05 | 2.54E-05 | 6.49E-07 | 9.42E-06 | 7.11E-06 | 7.11E-06 | 3.91E-06 | 3.52E-07 | 5.10E-06 | 3.17E-06 | 3.17E-06 | 1.57E-06 |
| 380 | 259230.77 | 4085708.09 | 4.20E-06 | 6.08E-05 | 4.48E-05 | 4.48E-05 | 2.50E-05 | 6.38E-07 | 9.26E-06 | 7.00E-06 | 7.00E-06 | 3.85E-06 | 3.47E-07 | 5.01E-06 | 3.11E-06 | 3.11E-06 | 1.54E-06 |
| 381 | 259222.13 | 4085731.06 | 4.14E-06 | 5.98E-05 | 4.41E-05 | 4.41E-05 | 2.46E-05 | 6.28E-07 | 9.11E-06 | 6.88E-06 | 6.88E-06 | 3.78E-06 | 3.41E-07 | 4.93E-06 | 3.06E-06 | 3.06E-06 | 1.52E-06 |
| 382 | 259213.5 | 4085754.02 | 4.07E-06 | 5.88E-05 | 4.34E-05 | 4.34E-05 | 2.42E-05 | 6.17E-07 | 8.96E-06 | 6.77E-06 | 6.77E-06 | 3.72E-06 | 3.35E-07 | 4.85E-06 | 3.01E-06 | 3.01E-06 | 1.49E-06 |
| 383 | 259204.86 | 4085776.99 | 4.00E-06 | 5.79E-05 | 4.26E-05 | 4.26E-05 | 2.38E-05 | 6.07E-07 | 8.81E-06 | 6.66E-06 | 6.68E-06 | 3.66E-06 | 3.30E-07 | 4.77E-06 | 2.96E-06 | 2.96E-06 | 1.47E-06 |
| 384 | 259196.22 | 4085799.95 | 3.94E-06 | 5.70E-05 | 4.20E-05 | 4.20E-05 | 2.34E-05 | 5.98E-07 | 8.68E-06 | 6.56E-06 | 6.56E-06 | 3.60E-06 | 3.25E-07 | 4.70E-06 | 2.92E-06 | 2.92E-06 | 1.44E-06 |
| 385 | 259187.58 | 4085822.92 | 3.88E-06 | 5.61E-05 | 4.14E-05 | 4.14E-05 | 2.31E-05 | 5.89E-07 | 8.55E-06 | 6.46E-06 | 6.46E-06 | 3.55E-06 | 3.20E-07 | 4.63E-06 | 2.87E-06 | 2.87E-06 | 1.42E-06 |
| 386 | 259178.95 | 4085845.88 | 3.83E-06 | 5.54E-05 | 4.08E-05 | 4.08E-06 | 2.28E-05 | 5.81E-07 | 8.44E-06 | 6.37E-06 | 6.37E-06 | 3.50E-06 | 3.16E-07 | 4.57E-06 | 2.84E-06 | 2.84E-06 | 1.40E-06 |
| 387 | 259148.04 | 4085879.15 | 3.83E-05 | 5.53E-05 | 4.08E-05 | 4.08E-05 | 2.27E-05 | 5.81E-07 | 8.43E-06 | 6.37E-06 | 6.37E-06 | 3.50E-06 | 3.15E-07 | 4.56E-06 | 2.83E-06 | 2.83E-06 | 1.40E-06 |
| 388 | 259125.77 | 4085889.45 | 3.87E-06 | 5.60E-05 | 4.13E-05 | 4.13E-05 | 2.30E-05 | 5.87E-07 | 8.53E-06 | 6.44E-06 | 6.44E-06 | 3.54E-06 | 3.19E-07 | 4.61E-06 | 2.87E-06 | 2.87E-06 | 1.42E-06 |
| 389 | 259103.5 | 4085899.75 | 3.92E-06 | 5.66E-05 | 4.17E-05 | 4.17E-05 | 2.33E-05 | 5.94E-07 | 8.63E-06 | 6.52E-06 | 6.52E-06 | 3.58E-06 | 3.23E-07 | 4.67E-06 | 2.90E-06 | 2.90E-06 | 1.44E-06 |
| 390 | 259081.23 | 4085910.05 | 3.96E-06 | 5.73E-05 | 4.22E-05 | 4.22E-05 | 2.36E-05 | 6.01E-07 | 8.73E-06 | 6.60E-06 | 6.60E-06 | 3.63E-06 | 3.27E-07 | 4.72E-06 | 2.93E-06 | 2.93E-06 | 1.45E-06 |
| 391 | 259058.96 | 4085920.35 | 4.01E-06 | 5.80E-05 | 4.28E-05 | 4.28E-05 | 2.38E-05 | 6.09E-07 | 8.84E-06 | 6.68E-06 | 6.68E-06 | 3.67E-06 | 3.31E-07 | 4.78E-06 | 2.97E-06 | 2.97E-06 | 1.47E-06 |
| 392 | 259036.69 | 4085930.65 | 4.06E-06 | 5.88E-05 | 4.33E-05 | 4.33E-05 | 2.42E-05 | 6.17E-07 | 8.95E-06 | 6.76E-06 | 6.76E-06 | 3.72E-06 | 3.35E-07 | 4.84E-05 | 3.01E-06 | 3.01E-06 | 1.49E-06 |
| 393 | 259014.42 | 4085940.95 | 4.12E-06 | 5.95E-05 | 4.39E-05 | 4.39E-06 | 2.45E-05 | 6.25E-07 | 9.07E-06 | 6.85E-06 | 6.85E-06 | 3.77E-06 | 3.39E-07 | 4.91E-06 | 3.09E-06 | 3.09E-06 | 1.51E-06 |
| 394 | 258992.15 | 4085951.25 | 4.17E-06 | 6.04E-05 | 4.45E-05 | 4.45E-06 | 2.48E-05 | 6.33E-07 | 9.20E-06 | 6.95E-06 | 6.95E-06 | 3.82E-06 | 3.44E-07 | 4.98E-06 | 3.09E-06 | 3.09E-06 | 1.53E-06 |
| 395 | 258969.88 | 4085961.54 | 4.23E-06 | 6.12E-05 | 4.51E-05 | 4.51E-05 | 2.52E-05 | 6.42E-07 | 9.33E-06 | 7.05E-06 | 7.05E-06 | 3.87E-06 | 3.49E-07 | 5.05E-06 | 3.14E-06 | 3.14E-06 | 1.55E-06 |
| 396 | 258947.61 | 4085971.84 | 4.29E-06 | 6.21E-05 | 4.57E-05 | 4.57E-05 | 2.55E-05 | 6.51E-07 | 9.45E-06 | 7.14E-06 | 7.14E-06 | 3.93E-06 | 3.54E-07 | 5.12E-06 | 3.18E-06 | 3.18E-06 | 1.57E-06 |
| 397 | 258925.34 | 4085982.14 | 4.36E-06 | 6.31E-05 | 4.65E-05 | 4.65E-05 | 2.59E-05 | 6.62E-07 | 9.62E-06 | 7.26E-06 | 7.26E-06 | 3.99E-06 | 3.60E-07 | 5.20E-06 | 3.23E-06 | 3.23E-06 | 1.60E-06 |
| 398 | 258903.07 | 4085992.44 | 4.45E-06 | 6.44E-05 | 4.75E-05 | 4.75E-05 | 2.65E-05 | 6.76E-07 | 9.81E-06 | 7.41E-06 | 7.41E-06 | 4.07E-06 | 3.67E-07 | 5.31E-06 | 3.30E-06 | 3.30E-06 | 1.63E-06 |
| 399 | 258880.8 | 4086002.74 | 4.55E-06 | 6.58E-05 | 4.85E-05 | 4.85E-05 | 2.70E-05 | 6.90E-07 | 1.00E-05 | 7.57E-06 | 7.57E-06 | 4.16E-06 | 3.75E-07 | 5.42E-06 | 3.37E-06 | 3.37E-06 | 1.67E-06 |
| 400 | 258858.53 | 4086013.04 | 4.66E-05 | 6.73E-05 | 4.96E-05 | 4.96E-06 | 2.77E-05 | 7.07E-07 | 1.03E-05 | 7.75E-06 | 7.75E-06 | 4.26E-06 | 3.84E-07 | 5.55E-06 | 3.45E-06 | 3.45E-06 | 1.71E-06 |
| 401 | 258836.26 | 4086023.34 | 4.77E-06 | 6.89E-05 | 5.08E-05 | 5.08E-05 | 2.83E-05 | 7.23E-07 | 1.05E-05 | 7.93E-06 | 7.93E-06 | 4.36E-06 | 3.93E-07 | 5.68E-06 | 3.53E-06 | 3.53E-06 | 1.75E-06 |
| 402 | 258813.99 | 4086033.64 | 4.88E-05 | 7.05E-05 | 5.20E-05 | 5.20E-05 | 2.90E-05 | 7.40E-07 | 1.07E-05 | 8.12E-06 | 8.12E-06 | 4.46E-06 | 4.02E-07 | 5.81E-06 | 3.61E-06 | 3.61E-06 | 1.79E-06 |
| 403 | 258791.72 | 4086043.94 | 4.98E-06 | 7.20E-05 | 5.31E-05 | 5.31E-05 | 2.96E-05 | 7.56E-07 | 1.10E-05 | 8.29E-06 | 8.29E-06 | 4.56E-06 | 4.11E-07 | 5.94E-06 | 3.69E-06 | 3.69E-06 | 1.83E-06 |
| 404 | 258769.45 | 4086054.24 | 5.08E-06 | 7.34E-05 | 5.41E-05 | 5.41E-05 | 3.02E-05 | 7.71E-07 | 1.12E-05 | 8.45E-06 | 8.45E-06 | 4.65E-06 | 4.19E-07 | 6.05E-06 | 3.76E-06 | 3.76E-06 | 1.86E-06 |
| 405 | 258747.18 | 4086064.54 | 5.16E-06 | 7.47E-05 | 5.50E-05 | 5.50E-05 | 3.07E-05 | 7.84E-07 | 1.14E-05 | 8.60E-06 | 8.60E-06 | 4.73E-06 | 4.26E-07 | 6.16E-06 | 3.82E-06 | 3.82E-06 | 1.89E-06 |
| 406 | 258724.91 | 4086074.84 | 5.24E-06 | 7.57E-06 | 5.58E-05 | 5.58E-05 | 3.11E-05 | 7.95E-07 | 1.15E-05 | 8.71E-06 | 8.71E-06 | 4.79E-06 | 4.32E-07 | 6.24E-06 | 3.88E-06 | 3.88E-06 | 1.92E-06 |
| 407 | 258702.64 | 4086085.14 | 5.30E-05 | 7.66E-05 | 5.65E-05 | 5.65E-05 | 3.15E-05 | 8.04E-07 | 1.17E-05 | 8.82E-06 | 8.82E-06 | 4.85E-06 | 4.37E-07 | 6.32E-06 | 3.92E-06 | 3.92E-06 | 1.94E-06 |
| 408 | 258680.37 | 4086095.44 | 5.36E-06 | 7.75E-05 | 5.71E-05 | 5.71E-05 | 3.16E-05 | 8.13E-07 | 1.18E-05 | 8.92E-06 | 8.92E-06 | 4.90E-06 | 4.42E-07 | 6.39E-06 | 3.97E-06 | 3.97E-06 | 1.96E-06 |
| 409 | 258658.1 | 4086105.74 | 5.41E-06 | 7.82E-05 | 5.76E-05 | 5.76E-06 | 3.21E-06 | 8.21E-07 | 1.19E-05 | 9.00E-06 | 9.00E-06 | 4.95E-06 | 4.46E-07 | 6.45E-06 | 4.00E-06 | 4.00E-06 | 1.96E-06 |
| 410 | 258635.83 | 4086116.04 | 5.46E-06 | 7.90E-05 | 5.82E-05 | 5.82E-05 | 3.24E-05 | 8.28E-07 | 1.20E-05 | 9.09E-06 | 9.09E-06 | 5.00E-06 | 4.50E-07 | 6.51E-06 | 4.04E-06 | 4.04E-06 | 2.00E-06 |
| 411 | 258613.56 | 4086126.34 | 5.51E-06 | 7.97E-05 | 5.88E-05 | 5.88E-05 | 3.28E-05 | 8.37E-07 | 1.21E-05 | 9.17E-06 | 9.17E-06 | 5.04E-06 | 4.54E-07 | 6.57E-06 | 4.08E-06 | 4.08E-06 | 2.02E-06 |
| 412 | 258591.29 | 4086136.64 | 5.57E-06 | 8.05E-05 | 5.94E-05 | 5.94E-05 | 3.31E-05 | 8.45E-07 | 1.23E-05 | 9.27E-06 | 9.27E-06 | 5.09E-06 | 4.59E-07 | 6.64E-06 | 4.12E-06 | 4.12E-06 | 2.04E-06 |
| 413 | 258569.02 | 4086146.94 | 5.63E-06 | 8.14E-05 | 6.00E-05 | 6.00E-05 | 3.35E-05 | 8.54E-07 | 1.24E-05 | 9.37E-06 | 9.37E-06 | 5.15E-06 | 4.64E-07 | 6.71E-06 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 207 | 258854.6 | 4085394.02 | 9.97E-06 | 1.44E-04 | 1.06E-04 | 1.06E-04 | 5.93E-05 | 1.51E-06 | 2.20E-05 | 1.66E-05 | 1.66E-05 | 9.12E-06 | 8.22E-07 | 1.19E-05 | 7.38E-06 | 7.38E-06 | 3.65E-06 |
| 208 | 258846.17 | 4085416.43 | 9.69E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.76E-05 | 1.47E-06 | 2.14E-06 | 1.81E-05 | 1.61E-05 | 8.87E-06 | 7.99E-07 | 1.16E-05 | 7.18E-06 | 7.18E-06 | 3.55E-06 |
| 209 | 258837.74 | 4085438.85 | 9.43E-06 | 1.36E-04 | 1.00E-04 | 1.00E-04 | 5.60E-05 | 1.43E-06 | 2.08E-05 | 1.57E-05 | 1.57E-05 | 8.63E-06 | 7.77E-07 | 1.12E-05 | 6.98E-06 | 6.98E-06 | 3.46E-06 |
| 210 | 258829.31 | 4085461.26 | 9.17E-06 | 1.33E-04 | 9.78E-05 | 9.78E-05 | 5.45E-05 | 1.39E-06 | 2.02E-05 | 1.53E-05 | 1.53E-05 | 8.39E-06 | 7.56E-07 | 1.09E-05 | 6.79E-06 | 6.79E-06 | 3.36E-06 |
| 211 | 258820.88 | 4085483.68 | 8.93E-06 | 1.29E-04 | 9.52E-05 | 9.52E-05 | 5.31E-05 | 1.36E-06 | 1.97E-05 | 1.49E-05 | 1.49E-05 | 8.18E-06 | 7.36E-07 | 1.07E-05 | 6.62E-06 | 6.62E-06 | 3.27E-06 |
| 212 | 258812.44 | 4085506.1 | 8.71E-06 | 1.26E-04 | 9.29E-05 | 9.29E-05 | 5.18E-05 | 1.32E-06 | 1.92E-05 | 1.45E-05 | 1.45E-05 | 7.97E-06 | 7.18E-07 | 1.04E-05 | 6.45E-06 | 6.45E-06 | 3.19E-06 |
| 213 | 258782.28 | 4085538.57 | 8.66E-06 | 1.25E-04 | 9.24E-05 | 9.24E-05 | 5.15E-05 | 1.31E-06 | 1.91E-05 | 1.44E-05 | 1.44E-05 | 7.93E-06 | 7.14E-07 | 1.03E-05 | 6.42E-06 | 6.42E-06 | 3.18E-06 |
| 214 | 258760.54 | 4085548.62 | 8.83E-06 | 1.28E-04 | 9.41E-05 | 9.41E-05 | 5.25E-05 | 1.34E-06 | 1.95E-05 | 1.47E-05 | 1.47E-05 | 8.08E-06 | 7.28E-07 | 1.05E-05 | 6.54E-06 | 6.54E-06 | 3.24E-06 |
| 215 | 258738.8 | 4085558.67 | 9.01E-06 | 1.30E-04 | 9.60E-05 | 9.60E-05 | 5.35E-05 | 1.37E-06 | 1.98E-05 | 1.50E-05 | 1.50E-05 | 8.24E-06 | 7.43E-07 | 1.07E-05 | 6.67E-06 | 6.67E-06 | 3.30E-06 |
| 216 | 258717.06 | 4085558.73 | 9.20E-06 | 1.33E-04 | 9.81E-05 | 9.81E-05 | 5.47E-05 | 1.40E-06 | 2.03E-05 | 1.53E-05 | 1.53E-05 | 8.42E-06 | 7.59E-07 | 1.10E-05 | 6.82E-06 | 6.82E-06 | 3.37E-06 |
| 217 | 258695.33 | 4085578.78 | 9.42E-06 | 1.36E-04 | 1.00E-04 | 1.00E-04 | 5.60E-05 | 1.43E-06 | 2.08E-05 | 1.57E-05 | 1.57E-05 | 8.62E-06 | 7.76E-07 | 1.12E-05 | 6.98E-06 | 6.98E-06 | 3.45E-06 |
| 218 | 258673.59 | 4085588.83 | 9.66E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.74E-05 | 1.47E-06 | 2.13E-05 | 1.61E-05 | 1.61E-05 | 8.84E-06 | 7.97E-07 | 1.15E-05 | 7.16E-06 | 7.16E-06 | 3.54E-06 |
| 219 | 258651.85 | 4085598.88 | 9.93E-06 | 1.44E-04 | 1.06E-04 | 1.06E-04 | 5.90E-05 | 1.51E-06 | 2.19E-05 | 1.65E-05 | 1.65E-05 | 9.08E-06 | 8.18E-07 | 1.18E-05 | 7.35E-06 | 7.35E-06 | 3.64E-06 |
| 220 | 258630.12 | 4085608.94 | 1.02E-05 | 1.48E-04 | 1.09E-04 | 1.09E-04 | 6.06E-05 | 1.55E-06 | 2.25E-05 | 1.70E-05 | 1.70E-05 | 9.33E-06 | 8.41E-07 | 1.22E-05 | 7.55E-06 | 7.55E-06 | 3.74E-06 |
| 221 | 258608.38 | 4085618.99 | 1.05E-05 | 1.51E-04 | 1.12E-04 | 1.12E-04 | 6.22E-05 | 1.59E-06 | 2.31E-05 | 1.74E-05 | 1.74E-05 | 9.58E-06 | 8.63E-07 | 1.25E-05 | 7.75E-06 | 7.75E-06 | 3.84E-06 |
| 222 | 258586.64 | 4085629.04 | 1.07E-05 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 6.37E-05 | 1.63E-06 | 2.36E-05 | 1.78E-05 | 1.78E-05 | 9.80E-06 | 8.83E-07 | 1.28E-05 | 7.93E-06 | 7.93E-06 | 3.93E-06 |
| 223 | 258564.91 | 4085639.1 | 1.10E-05 | 1.59E-04 | 1.17E-04 | 1.17E-04 | 6.51E-05 | 1.66E-06 | 2.42E-05 | 1.82E-05 | 1.82E-05 | 1.00E-05 | 9.04E-07 | 1.31E-05 | 8.12E-06 | 8.12E-06 | 4.02E-06 |
| 224 | 258543.17 | 4085649.15 | 1.12E-05 | 1.62E-04 | 1.19E-04 | 1.19E-04 | 6.64E-05 | 1.70E-06 | 2.46E-05 | 1.86E-05 | 1.86E-05 | 1.02E-05 | 9.21E-07 | 1.33E-05 | 8.27E-06 | 8.27E-06 | 4.09E-06 |
| 225 | 258521.43 | 4085659.2 | 1.13E-05 | 1.64E-04 | 1.21E-04 | 1.21E-04 | 6.74E-05 | 1.72E-06 | 2.50E-05 | 1.89E-05 | 1.89E-05 | 1.04E-05 | 9.35E-07 | 1.35E-05 | 8.40E-06 | 8.40E-06 | 4.16E-06 |
| 226 | 258499.69 | 4085669.26 | 1.16E-05 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.89E-05 | 1.76E-06 | 2.55E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.55E-07 | 1.38E-05 | 8.58E-06 | 8.58E-06 | 4.25E-06 |
| 227 | 258477.96 | 4085679.31 | 1.18E-05 | 1.71E-04 | 1.26E-04 | 1.26E-04 | 7.02E-05 | 1.79E-06 | 2.60E-05 | 1.97E-05 | 1.97E-05 | 1.08E-05 | 9.74E-07 | 1.41E-05 | 8.75E-06 | 8.75E-06 | 4.33E-06 |
| 228 | 258456.22 | 4085689.36 | 1.20E-05 | 1.74E-04 | 1.28E-04 | 1.28E-04 | 7.15E-05 | 1.83E-06 | 2.65E-05 | 2.00E-06 | 2.00E-05 | 1.10E-05 | 9.92E-07 | 1.43E-05 | 8.91E-06 | 8.91E-06 | 4.41E-06 |
| 229 | 258434.48 | 4085699.42 | 1.23E-05 | 1.78E-04 | 1.31E-04 | 1.31E-04 | 7.31E-05 | 1.87E-06 | 2.71E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.01E-06 | 1.47E-06 | 9.11E-06 | 9.11E-06 | 4.51E-06 |
| 230 | 258412.75 | 4085709.47 | 1.26E-05 | 1.82E-04 | 1.34E-04 | 1.34E-04 | 7.48E-05 | 1.91E-06 | 2.77E-05 | 2.10E-05 | 2.10E-05 | 1.15E-05 | 1.04E-06 | 1.50E-05 | 9.32E-06 | 9.32E-06 | 4.61E-06 |
| 231 | 258964.2 | 4085102.61 | 1.41E-05 | 2.04E-04 | 1.51E-04 | 1.51E-04 | 8.39E-05 | 2.14E-06 | 3.11E-05 | 2.35E-05 | 2.35E-05 | 1.29E-05 | 1.16E-06 | 1.68E-05 | 1.05E-05 | 1.05E-05 | 5.18E-06 |
| 232 | 258953.48 | 4085077.85 | 1.48E-05 | 2.14E-04 | 1.57E-04 | 1.57E-04 | 8.78E-05 | 2.24E-06 | 3.25E-05 | 2.46E-05 | 2.46E-06 | 1.35E-05 | 1.22E-06 | 1.76E-05 | 1.09E-05 | 1.09E-05 | 5.41E-06 |
| 233 | 258962.76 | 4085053.09 | 1.55E-05 | 2.24E-04 | 1.65E-04 | 1.65E-04 | 9.19E-05 | 2.35E-06 | 3.41E-05 | 2.57E-05 | 2.57E-05 | 1.42E-06 | 1.27E-06 | 1.84E-05 | 1.15E-05 | 1.15E-05 | 5.67E-06 |
| 234 | 258962.04 | 4085028.34 | 1.62E-05 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.65E-05 | 2.46E-06 | 3.58E-05 | 2.70E-06 | 2.70E-05 | 1.49E-05 | 1.34E-06 | 1.94E-06 | 1.20E-05 | 1.20E-05 | 5.95E-06 |
| 235 | 258961.31 | 4085003.58 | 1.71E-05 | 2.47E-04 | 1.82E-04 | 1.82E-04 | 1.01E-04 | 2.59E-06 | 3.76E-05 | 2.84E-05 | 2.84E-05 | 1.56E-05 | 1.41E-06 | 2.03E-05 | 1.26E-05 | 1.26E-05 | 6.26E-06 |
| 236 | 258960.59 | 4084978.83 | 1.80E-05 | 2.60E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.73E-06 | 3.96E-05 | 2.99E-05 | 2.99E-05 | 1.64E-05 | 1.48E-06 | 2.14E-05 | 1.33E-05 | 1.33E-05 | 6.59E-06 |
| 237 | 258959.87 | 4084954.07 | 1.89E-06 | 2.74E-04 | 2.02E-04 | 2.02E-04 | 1.13E-04 | 2.88E-06 | 4.17E-05 | 3.15E-05 | 3.15E-05 | 1.73E-05 | 1.56E-06 | 2.26E-05 | 1.40E-05 | 1.40E-05 | 6.95E-06 |
| 238 | 258959.15 | 4084929.31 | 2.00E-05 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.03E-06 | 4.41E-05 | 3.33E-05 | 3.33E-05 | 1.83E-05 | 1.65E-06 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.33E-06 |
| 239 | 258958.42 | 4084904.56 | 2.11E-05 | 3.05E-04 | 2.25E-04 | 2.25E-04 | 1.25E-04 | 3.20E-06 | 4.65E-05 | 3.51E-05 | 3.51E-05 | 1.93E-05 | 1.74E-06 | 2.51E-05 | 1.56E-05 | 1.56E-05 | 7.73E-06 |
| 240 | 259055.67 | 4085122.28 | 1.13E-05 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.71E-05 | 1.71E-06 | 2.49E-05 | 1.88E-05 | 1.88E-05 | 1.03E-05 | 9.31E-07 | 1.35E-05 | 8.36E-06 | 8.36E-06 | 4.14E-06 |
| 241 | 259047.17 | 4085144.66 | 1.11E-05 | 1.61E-04 | 1.18E-04 | 1.18E-04 | 6.60E-05 | 1.69E-06 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.02E-05 | 9.15E-07 | 1.32E-06 | 8.22E-06 | 8.22E-06 | 4.07E-06 |
| 242 | 259038.68 | 4085167.45 | 1.09E-05 | 1.58E-04 | 1.16E-04 | 1.16E-04 | 6.47E-05 | 1.65E-05 | 2.40E-05 | 1.81E-05 | 1.81E-05 | 9.97E-06 | 8.98E-07 | 1.30E-06 | 8.07E-06 | 8.07E-06 | 3.99E-06 |
| 243 | 259030.18 | 4085190.03 | 1.06E-05 | 1.54E-04 | 1.13E-04 | 1.13E-04 | 6.32E-05 | 1.61E-06 | 2.34E-05 | 1.77E-05 | 1.77E-05 | 9.73E-06 | 8.77E-07 | 1.27E-05 | 7.88E-06 | 7.88E-06 | 3.90E-06 |
| 244 | 259021.69 | 4085212.62 | 1.04E-05 | 1.50E-04 | 1.10E-04 | 1.10E-04 | 6.15E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.48E-06 | 8.53E-07 | 1.25E-05 | 7.67E-06 | 7.67E-06 | 3.80E-08 |
| 245 | 259013.19 | 4085235.21 | 1.01E-06 | 1.46E-04 | 1.08E-04 | 1.08E-04 | 5.99E-05 | 1.53E-06 | 2.22E-05 | 1.68E-05 | 1.68E-06 | 9.23E-06 | 8.31E-07 | 1.20E-05 | 7.47E-06 | 7.47E-06 | 3.70E-06 |
| 246 | 259004.7 | 4085257.79 | 9.82E-06 | 1.42E-04 | 1.05E-04 | 1.05E-04 | 5.84E-05 | 1.49E-06 | 2.16E-05 | 1.63E-05 | 1.63E-05 | 8.99E-06 | 8.10E-07 | 1.17E-05 | 7.27E-06 | 7.27E-06 | 3.60E-06 |
| 247 | 258996.2 | 4085280.38 | 9.57E-06 | 1.38E-04 | 1.02E-04 | 1.02E-04 | 5.69E-05 | 1.45E-06 | 2.11E-05 | 1.59E-05 | 1.59E-05 | 8.76E-06 | 7.89E-07 | 1.14E-05 | 7.09E-06 | 7.09E-06 | 3.51E-06 |
| 248 | 258987.71 | 4085302.96 | 9.33E-06 | 1.35E-04 | 9.95E-05 | 9.95E-05 | 5.55E-06 | 1.42E-06 | 2.06E-05 | 1.55E-05 | 1.55E-05 | 8.54E-06 | 7.69E-07 | 1.11E-06 | 6.91E-06 | 6.91E-06 | 3.42E-06 |
| 249 | 258979.21 | 4085325.55 | 9.11E-06 | 1.32E-04 | 9.71E-05 | 9.71E-05 | 5.41E-05 | 1.38E-06 | 2.01E-05 | 1.52E-05 | 1.52E-05 | 8.33E-06 | 7.51E-07 | 1.09E-06 | 6.74E-06 | 6.74E-06 | 3.34E-06 |
| 250 | 258970.72 | 4085348.13 | 8.90E-06 | 1.29E-04 | 9.48E-05 | 9.48E-05 | 5.29E-05 | 1.35E-06 | 1.96E-05 | 1.48E-05 | 1.48E-05 | 8.14E-06 | 7.33E-07 | 1.06E-06 | 6.59E-06 | 8.59E-06 | 3.26E-06 |
| 251 | 258962.22 | 4085370.72 | 8.69E-06 | 1.26E-04 | 9.27E-05 | 9.27E-05 | 5.17E-05 | 1.32E-06 | 1.92E-06 | 1.45E-05 | 1.45E-05 | 7.95E-06 | 7.16E-07 | 1.04E-05 | 6.44E-06 | 6.44E-06 | 3.19E-06 |
| 252 | 258953.73 | 4085393.31 | 8.49E-06 | 1.23E-04 | 9.05E-05 | 9.05E-05 | 5.05E-05 | 1.29E-06 | 1.87E-05 | 1.41E-05 | 1.41E-05 | 7.77E-06 | 7.00E-07 | 1.01E-05 | 6.29E-06 | 6.29E-06 | 3.11E-05 |
| 253 | 258945.23 | 4085415.89 | 8.29E-06 | 1.20E-04 | 8.84E-05 | 8.84E-05 | 4.93E-05 | 1.26E-06 | 1.83E-05 | 1.36E-05 | 1.38E-06 | 7.59E-05 | 6.84E-07 | 9.89E-06 | 6.14E-06 | 6.14E-06 | 3.04E-06 |
| 254 | 258936.74 | 4085438.48 | 8.10E-06 | 1.17E-04 | 8.63E-05 | 8.63E-05 | 4.81E-05 | 1.23E-06 | 1.78E-05 | 1.35E-05 | 1.35E-05 | 7.41E-06 | 6.58E-07 | 9.65E-06 | 6.00E-06 | 6.00E-06 | 2.97E-06 |
| 255 | 258928.24 | 4085461.06 | 7.90E-06 | 1.14E-04 | 8.43E-05 | 8.43E-05 | 4.70E-05 | 1.20E-06 | 1.74E-05 | 1.32E-05 | 1.32E-05 | 7.23E-05 | 6.51E-07 | 9.42E-06 | 5.85E-06 | 5.85E-06 | 2.90E-06 |
| 256 | 258919.75 | 4085483.65 | 7.71E-06 | 1.12E-04 | 8.22E-05 | 8.22E-05 | 4.58E-05 | 1.17E-06 | 1.70E-06 | 1.28E-05 | 1.28E-05 | 7.06E-06 | 6.36E-07 | 9.20E-05 | 5.71E-06 | 5.71E-06 | 2.83E-05 |
| 257 | 258911.25 | 4085506.24 | 7.53E-06 | 1.09E-04 | 8.03E-05 | 8.03E-05 | 4.47E-05 | 1.14E-06 | 1.66E-06 | 1.25E-05 | 1.25E-05 | 6.89E-06 | 6.21E-07 | 8.98E-06 | 5.58E-06 | 5.58E-06 | 2.76E-06 |
| 258 | 258902.76 | 4085528.82 | 7.35E-06 | 1.06E-04 | 7.84E-05 | 7.84E-05 | 4.37E-05 | 1.12E-06 | 1.62E-05 | 1.22E-05 | 1.22E-05 | 6.73E-06 | 6.06E-07 | 8.77E-06 | 5.45E-06 | 5.45E-06 | 2.70E-06 |
| 259 | 258894.26 | 4085551.41 | 7.19E-06 | 1.04E-04 | 7.66E-05 | 7.66E-05 | 4.27E-05 | 1.09E-06 | 1.58E-05 | 1.20E-05 | 1.20E-05 | 6.58E-06 | 5.93E-07 | 8.57E-06 | 5.32E-06 | 5.32E-06 | 2.63E-06 |
| 260 | 258885.77 | 4085573.99 | 7.04E-06 | 1.02E-04 | 7.50E-05 | 7.50E-05 | 4.18E-05 | 1.07E-06 | 1.55E-05 | 1.17E-05 | 1.17E-05 | 6.44E-06 | 5.80E-07 | 8.39E-06 | 5.21E-06 | 5.21E-06 | 2.58E-06 |
| 261 | 258855.37 | 4085606.71 | 7.00E-05 | 1.01E-04 | 7.46E-05 | 7.46E-05 | 4.16E-05 | 1.06E-06 | 1.54E-05 | 1.17E-05 | 1.17E-05 | 6.41E-06 | 5.77E-07 | 8.35E-06 | 5.19E-06 | 5.19E-06 | 2.57E-06 |
| 262 | 258833.47 | 4085616.84 | 7.11E-06 | 1.03E-04 | 7.58E-05 | 7.58E-05 | 4.23E-05 | 1.08E-06 | 1.57E-05 | 1.18E-05 | 1.18E-05 | 6.51E-06 | 5.86E-07 | 8.48E-06 | 5.27E-06 | 5.27E-05 | 2.61E-06 |
| 263 | 258811.57 | 4085626.97 | 7.24E-06 | 1.05E-04 | 7.72E-05 | 7.72E-05 | 4.30E-05 | 1.10E-06 | 1.59E-05 | 1.20E-05 | 1.20E-05 | 6.62E-06 | 5.97E-07 | 8.63E-06 | 5.36E-06 | 5.36E-06 | 2.65E-06 |
| 264 | 258789.66 | 4085637.1 | 7.37E-06 | 1.07E-04 | 7.85E-05 | 7.85E-05 | 4.38E-05 | 1.12E-06 | 1.62E-05 | 1.23E-05 | 1.23E-05 | 6.74E-06 | 6.07E-07 | 8.78E-06 | 5.46E-06 | 5.46E-06 | 2.70E-06 |
| 265 | 258767.76 | 4085647.23 | 7.51E-06 | 1.09E-04 | 8.00E-05 | 8.00E-05 | 4.46E-05 | 1.14E-05 | 1.65E-05 | 1.25E-05 | 1.25E-05 | 6.87E-06 | 6.19E-07 | 8.95E-06 | 5.56E-06 | 5.56E-06 | 2.75E-06 |
| 266 | 258745.86 | 4085657.36 | 7.67E-06 | 1.11E-04 | 8.17E-05 | 8.17E-05 | 4.56E-05 | 1.16E-06 | 1.69E-05 | 1.28E-05 | 1.28E-05 | 7.02E-06 | 6.32E-07 | 9.14E-06 | 5.68E-06 | 5.66E-06 | 2.81E-06 |
| 267 | 258723.96 | 4085667.49 | 7.85E-06 | 1.14E-04 | 8.37E-05 | 8.37E-05 | 4.66E-05 | 1.19E-06 | 1.73E-05 | 1.31E-05 | 1.31E-05 | 7.18E-06 | 6.47E-07 | 9.36E-06 | 5.81E-06 | 5.81E-06 | 2.88E-06 |
| 268 | 258702.06 | 4085677.61 | 8.05E-06 | 1.16E-04 | 8.58E-05 | 8.58E-05 | 4.78E-05 | 1.22E-06 | 1.77E-05 | 1.34E-05 | 1.34E-05 | 7.36E-06 | 6.63E-07 | 9.59E-06 | 5.96E-06 | 5.96E-05 | 2.95E-06 |
| 269 | 258680.16 | 4085687.74 | 8.26E-06 | 1.19E-04 | 8.80E-05 | 8.80E-05 | 4.91E-05 | 1.25E-06 | 1.82E-05 | 1.37E-05 | 1.37E-05 | 7.55E-06 | 6.81E-07 | 9.84E-06 | 6.11E-06 | 6.11E-06 | 3.03E-06 |
| 270 | 258658.25 | 4085697.87 | 8.47E-06 | 1.22E-04 | 9.03E-05 | 9.03E-05 | 5.03E-05 | 1.29E-06 | 1.87E-06 | 1.41E-05 | 1.41E-05 | 7.75E-06 | 6.98E-07 | 1.01E-05 | 6.27E-06 | 6.27E-06 | 3.10E-06 |
| 271 | 258636.35 | 4085708 | 8.67E-06 | 1.25E-04 | 9.24E-05 | 9.24E-05 | 5.15E-05 | 1.32E-06 | 1.91E-05 | 1.44E-05 | 1.44E-05 | 7.93E-06 | 7.14E-07 | 1.03E-05 | 6.42E-06 | 6.42E-06 | 3.18E-06 |
| 272 | 258614.45 | 4085718.13 | 8.84E-06 | 1.28E-04 | 9.43E-05 | 9.43E-05 | 5.26E-05 | 1.34E-06 | 1.95E-05 | 1.47E-05 | 1.47E-05 | 8.09E-06 | 7.29E-07 | 1.05E-05 | 6.55E-06 | 6.55E-06 | 3.24E-06 |
| 273 | 258592.55 | 4085728.26 | 9.01E-06 | 1.30E-04 | 9.60E-05 | 9.60E-05 | 5.35E-05 | 1.37E-06 | 1.98E-05 | 1.50E-05 | 1.50E-05 | 8.24E-06 | 7.42E-07 | 1.07E-05 | 6.67E-06 | 6.67E-06 | 3.30E-06 |
| 274 | 258570.65 | 4085738.39 | 9.16E-06 | 1.32E-04 | 9.76E-05 | 9.76E-05 | 5.44E-05 | 1.39E-06 | 2.02E-05 | 1.52E-05 | 1.52E-05 | 8.38E-05 | 7.55E-07 | 1.09E-05 | 6.78E-06 | 6.78E-06 | 3.36E-06 |
| 275 | 258548.75 | 4085748.52 | 9.30E-06 | 1.35E-04 | 9.92E-05 | 9.92E-05 | 5.53E-05 | 1.41E-06 | 2.05E-05 | 1.55E-05 | 1.55E-05 | 8.51E-06 | 7.67E-07 | 1.11E-05 | 6.89E-06 | 6.89E-06 | 3.41E-06 |
| 276 | 258526.84 | 4085758.65 | 9.46E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.62E-05 | 1.44E-06 | 2.08E-05 | 1.57E-05 | 1.57E-05 | 8.66E-06 | 7.80E-07 | 1.13E-05 | 7.00E-06 | 7.00E-06 | 3.47E-06 |
| 277 | 258504.94 | 4085768.78 | 9.63E-05 | 1.39E-04 | 1.03E-04 | 1.03E-04 | 5.72E-05 | 1.46E-06 | 2.12E-05 | 1.60E-05 | 1.60E-05 | 8.81E-06 | 7.94E-07 | 1.15E-05 | 7.13E-06 | 7.13E-06 | 3.53E-06 |
| 278 | 258483.04 | 4085778.91 | 9.82E-06 | 1.42E-04 | 1.05E-04 | 1.05E-04 | 5.84E-05 | 1.49E-06 | 2.16E-05 | 1.63E-05 | 1.63E-05 | 8.98E-06 | 8.09E-07 | 1.17E-05 | 7.27E-06 | 7.27E-06 | 3.60E-06 |
| 279 | 258461.14 | 4085789.04 | 1.00E-05 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.96E-05 | 1.52E-06 | 2.21E-05 | 1.67E-05 | 1.67E-05 | 9.17E-06 | 8.26E-07 | 1.19E-05 | 7.42E-06 | 7.42E-06 | 3.67E-06 |
| 280 | 258439.24 | 4085799.17 | 1.02E-05 | 1.48E-04 | 1.09E-04 | 1.09E-04 | 6.08E-05 | 1.55E-06 | 2.25E-05 | 1.70E-05 | 1.70E-05 | 9.36E-06 | 8.43E-07 | 1.22E-05 | 7.58E-06 | 7.58E-06 | 3.75E-06 |
| 281 | 258417.33 | 4085809.3 | 1.05E-05 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 6.21E-05 | 1.59E-06 | 2.30E-05 | 1.74E-05 | 1.74E-05 | 9.56E-06 | 8.61E-07 | 1.25E-05 | 7.74E-06 | 7.74E-06 | 3.83E-06 |
| 282 | 259064.16 | 4085099.69 | 1.15E-05 | 1.66E-04 | 1.22E-04 | 1.22E-04 | 6.82E-05 | 1.74E-06 | 2.53E-05 | 1.91E-05 | 1.91E-05 | 1.05E-05 | 9.45E-07 | 1.37E-05 | 8.49E-06 | 8.49E-06 | 4.20E-06 |
| 283 | 259063.44 | 4085074.93 | 1.19E-05 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.07E-06 | 1.81E-06 | 2.62E-05 | 1.98E-05 | 1.98E-05 | 1.09E-05 | 9.80E-07 | 1.42E-05 | 8.81E-06 | 8.81E-06 | 4.36E-06 |
| 284 | 259062.72 | 4085050.18 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.35E-06 | 1.88E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-06 | 1.02E-06 | 1.47E-05 | 9.16E-06 | 9.16E-06 | 4.53E-06 |
| 285 | 259061.99 | 4085025.42 | 1.29E-05 | 1.86E-04 | 1.37E-04 | 1.37E-04 | 7.66E-06 | 1.96E-06 | 2.84E-05 | 2.14E-05 | 2.14E-05 | 1.18E-05 | 1.06E-06 | 1.54E-05 | 9.54E-06 | 9.54E-06 | 4.72E-06 |
| 286 | 259061.27 | 4085000.66 | 1.35E-05 | 1.95E-04 | 1.43E-04 | 1.43E-04 | 8.00E-05 | 2.04E-06 | 2.97E-05 | 2.24E-05 | 2.24E-05 | 1.23E-05 | 1.11E-06 | 1.60E-05 | 9.97E-06 | 9.97E-06 | 4.93E-06 |
| 287 | 259060.55 | 4084975.91 | 1.41E-05 | 2.04E-04 | 1.50E-04 | 1.50E-04 | 8.37E-05 | 2.14E-06 | 3.10E-05 | 2.34E-05 | 2.34E-05 | 1.29E-05 | 1.16E-06 | 1.68E-05 | 1.04E-05 | 1.04E-05 | 5.16E-06 |
| 288 | 259059.83 | 4084951.15 | 1.48E-05 | 2.13E-04 | 1.57E-04 | 1.57E-04 | 8.77E-05 | 2.24E-06 | 3.25E-05 | 2.46E-05 | 2.46E-05 | 1.35E-05 | 1.22E-06 | 1.76E-05 | 1.09E-05 | 1.09E-05 | 5.41E-06 |
| 289 | 259059.1 | 4084926.4 | 1.55E-05 | 2.24E-04 | 1.65E-04 | 1.65E-04 | 9.20E-05 | 2.35E-06 | 3.41E-05 | 2.58E-05 | 2.58E-05 | 1.42E-05 | 1.28E-06 | 1.84E-05 | 1.15E-05 | 1.15E-05 | 5.67E-06 |
| 290 | 259058.38 | 4084901.64 | 1.62E-05 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.64E-05 | 2.46E-06 | 3.58E-05 | 2.70E-05 | 2.70E-05 | 1.48E-05 | 1.34E-06 | 1.93E-05 | 1.20E-05 | 1.20E-05 | 5.95E-05 |
| 291 | 259255.5 | 4085116.67 | 8.09E-06 | 1.17E-04 | 8.62E-05 | 8.62E-05 | 4.81E-05 | 1.23E-06 | 1.78E-05 | 1.35E-05 | 1.35E-05 | 7.40E-06 | 6.66E-07 | 9.64E-06 | 5.99E-05 | 5.99E-06 | 2.96E-06 |
| 292 | 259246.91 | 4085139.49 | 8.01E-06 | 1.16E-04 | 8.54E-05 | 8.54E-05 | 4.76E-05 | 1.22E-06 | 1.76E-05 | 1.33E-05 | 1.33E-05 | 7.33E-06 | 6.60E-07 | 9.55E-06 | 5.93E-06 | 5.93E-06 | 2.94E-06 |
| 293 | 259238.33 | 4085162.3 | 7.91E-06 | 1.14E-04 | 8.44E-05 | 8.44E-05 | 4.70E-05 | 1.20E-06 | 1.74E-05 | 1.32E-05 | 1.32E-05 | 7.24E-06 | 6.52E-07 | 9.43E-06 | 5.86E-06 | 5.86E-06 | 2.90E-05 |
| 294 | 259229.75 | 4085185.12 | 7.79E-06 | 1.13E-04 | 8.31E-05 | 8.31E-05 | 4.63E-05 | 1.18E-06 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.13E-06 | 6.42E-07 | 9.29E-06 | 5.77E-06 | 5.77E-06 | 2.86E-06 |
| 295 | 259221.17 | 4085207.94 | 7.63E-06 | 1.10E-04 | 8.13E-05 | 8.15E-05 | 4.53E-05 | 1.16E-06 | 1.68E-06 | 1.27E-05 | 1.27E-05 | 6.98E-06 | 6.29E-07 | 9.09E-06 | 5.65E-06 | 5.65E-06 | 2.80E-06 |
| 296 | 259212.59 | 4085230.75 | 7.47E-06 | 1.08E-04 | 7.96E-05 | 7.96E-05 | 4.44E-05 | 1.13E-06 | 1.65E-05 | 1.24E-05 | 1.24E-05 | 6.84E-06 | 6.16E-07 | 8.91E-06 | 5.53E-06 | 5.53E-06 | 2.74E-06 |
| 297 | 259204.01 | 4085253.57 | 7.31E-06 | 1.06E-04 | 7.79E-05 | 7.79E-05 | 4.34E-05 | 1.11E-06 | 1.61E-05 | 1.22E-05 | 1.22E-06 | 6.68E-06 | 6.02E-07 | 8.71E-06 | 5.41E-06 | 5.41E-06 | 2.68E-06 |
| 298 | 259195.42 | 4085276.39 | 7.14E-06 | 1.03E-04 | 7.61E-05 | 7.61E-05 | 4.24E-05 | 1.08E-06 | 1.57E-05 | 1.19E-05 | 1.19E-05 | 6.53E-06 | 5.88E-07 | 8.51E-06 | 5.29E-06 | 5.29E-06 | 2.62E-06 |
| 299 | 259186.84 | 4085299.2 | 6.97E-06 | 1.01E-04 | 7.43E-05 | 7.43E-05 | 4.14E-05 | 1.06E-06 | 1.54E-05 | 1.16E-05 | 1.16E-05 | 6.38E-05 | 5.75E-07 | 6.31E-06 | 5.16E-06 | 5.16E-06 | 2.56E-06 |
| 300 | 259178.26 | 4085322.02 | 6.82E-06 | 9.86E-05 | 7.27E-05 | 7.27E-05 | 4.05E-05 | 1.03E-05 | 1.50E-05 | 1.13E-05 | 1.13E-05 | 6.24E-06 | 5.62E-07 | 8.13E-06 | 5.05E-06 | 5.05E-06 | 2.50E-06 |
| 301 | 259169.68 | 4085344.84 | 6.67E-06 | 9.65E-05 | 7.11E-05 | 7.11E-05 | 3.96E-05 | 1.01E-06 | 1.47E-05 | 1.11E-05 | 1.11E-05 | 6.10E-06 | 5.50E-07 | 7.95E-06 | 4.94E-06 | 4.94E-06 | 2.44E-06 |
| 302 | 259161.1 | 4085367.65 | 6.54E-06 | 9.45E-05 | 6.97E-05 | 6.97E-05 | 3.88E-05 | 9.92E-07 | 1.44E-05 | 1.09E-05 | 1.09E-05 | 5.98E-06 | 5.39E-07 | 7.79E-06 | 4.84E-05 | 4.84E-05 | 2.40E-05 |
| 303 | 259152.52 | 4085390.47 | 6.41E-06 | 9.28E-05 | 6.84E-05 | 6.84E-05 | 3.81E-05 | 9.73E-07 | 1.41E-05 | 1.07E-05 | 1.07E-05 | 5.87E-06 | 5.29E-07 | 7.65E-06 | 4.75E-06 | 4.75E-06 | 2.35E-06 |
| 304 | 259143.93 | 4085413.28 | 6.30E-06 | 9.11E-05 | 6.72E-05 | 6.72E-05 | 3.74E-05 | 9.56E-07 | 1.39E-05 | 1.05E-05 | 1.05E-05 | 5.77E-06 | 5.19E-07 | 7.51E-06 | 4.67E-06 | 4.67E-06 | 2.31E-06 |
| 305 | 259135.35 | 4085436.1 | 6.20E-06 | 8.96E-05 | 6.61E-05 | 6.61E-05 | 3.68E-05 | 9.40E-07 | 1.37E-05 | 1.03E-05 | 1.03E-05 | 5.67E-06 | 5.11E-07 | 7.39E-06 | 4.59E-06 | 4.59E-06 | 2.27E-06 |
| 306 | 259126.77 | 4085458.92 | 6.09E-06 | 8.81E-05 | 6.50E-05 | 6.50E-05 | 3.62E-05 | 9.25E-07 | 1.34E-05 | 1.01E-05 | 1.01E-05 | 5.58E-05 | 5.02E-07 | 7.27E-06 | 4.51E-06 | 4.51E-06 | 2.23E-06 |
| 307 | 259118.19 | 4085481.73 | 5.99E-06 | 8.67E-06 | 6.39E-05 | 6.39E-05 | 3.56E-05 | 9.10E-07 | 1.32E-05 | 9.98E-05 | 9.98E-06 | 5.48E-05 | 4.94E-07 | 7.15E-06 | 4.44E-06 | 4.44E-06 | 2.20E-06 |
| 308 | 259109.61 | 4085504.55 | 5.89E-06 | 8.52E-06 | 6.28E-05 | 6.28E-06 | 3.50E-05 | 6.94E-07 | 1.30E-05 | 9.81E-06 | 9.81E-06 | 5.39E-06 | 4.86E-07 | 7.02E-06 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | 258608.27 | 4085260.43 | 2.49E-05 | 3.60E-04 | 2.66E-04 | 2.66E-04 | 1.46E-04 | 3.78E-06 | 5.49E-05 | 4.15E-05 | 4.15E-06 | 2.28E-05 | 2.05E-06 | 2.97E-05 | 1.84E-05 | 1.84E-05 | 9.13E-06 |
| 103 | 258600.26 | 4085281.72 | 2.38E-05 | 3.44E-04 | 2.53E-04 | 2.53E-04 | 1.41E-04 | 3.61E-06 | 5.24E-05 | 3.95E-05 | 3.95E-05 | 2.17E-05 | 1.96E-06 | 2.83E-05 | 1.76E-05 | 1.76E-05 | 8.71E-06 |
| 104 | 258592.25 | 4085303.02 | 2.27E-05 | 3.28E-04 | 2.42E-04 | 2.42E-04 | 1.35E-04 | 3.45E-06 | 5.00E-05 | 3.78E-05 | 3.78E-05 | 2.08E-05 | 1.87E-06 | 2.71E-05 | 1.68E-05 | 1.68E-05 | 8.32E-06 |
| 105 | 258563.39 | 4085333.86 | 2.25E-05 | 3.25E-04 | 2.40E-04 | 2.40E-04 | 1.34E-04 | 3.41E-06 | 4.96E-05 | 3.74E-05 | 3.74E-05 | 2.06E-05 | 1.85E-06 | 2.68E-05 | 1.67E-05 | 1.67E-05 | 8.25E-06 |
| 106 | 258542.94 | 4085343.41 | 2.33E-05 | 3.37E-04 | 2.49E-04 | 2.49E-04 | 1.39E-04 | 3.54E-06 | 5.14E-05 | 3.88E-05 | 3.88E-05 | 2.13E-05 | 1.92E-06 | 2.78E-05 | 1.73E-05 | 1.73E-06 | 8.55E-06 |
| 107 | 258522.29 | 4085352.96 | 2.42E-05 | 3.50E-04 | 2.58E-04 | 2.58E-04 | 1.44E-04 | 3.68E-06 | 5.34E-05 | 4.03E-05 | 4.03E-05 | 2.22E-05 | 2.00E-06 | 2.89E-05 | 1.79E-05 | 1.79E-05 | 8.88E-06 |
| 108 | 258501.64 | 4085362.51 | 2.52E-05 | 3.64E-04 | 2.68E-04 | 2.68E-04 | 1.50E-04 | 3.82E-06 | 5.55E-05 | 4.19E-05 | 4.19E-06 | 2.30E-05 | 2.07E-06 | 3.00E-05 | 1.86E-05 | 1.86E-05 | 9.23E-06 |
| 109 | 258480.99 | 4085372.06 | 2.61E-05 | 3.78E-04 | 2.78E-04 | 2.78E-04 | 1.55E-04 | 3.96E-06 | 5.75E-05 | 4.34E-05 | 4.34E-05 | 2.39E-05 | 2.15E-06 | 3.11E-05 | 1.93E-06 | 1.93E-05 | 9.57E-06 |
| 110 | 258460.34 | 4085381.61 | 2.70E-05 | 3.90E-04 | 2.88E-04 | 2.88E-04 | 1.60E-04 | 4.10E-06 | 5.95E-05 | 4.49E-05 | 4.49E-05 | 2.47E-05 | 2.22E-06 | 3.22E-06 | 2.00E-05 | 2.00E-06 | 9.89E-06 |
| 111 | 258439.68 | 4085391.16 | 2.79E-05 | 4.03E-04 | 2.97E-04 | 2.97E-04 | 1.68E-04 | 4.23E-06 | 6.14E-05 | 4.64E-05 | 4.64E-05 | 2.55E-05 | 2.30E-06 | 3.32E-05 | 2.06E-05 | 2.06E-05 | 1.02E-05 |
| 112 | 258419.03 | 4085400.72 | 2.88E-05 | 4.16E-04 | 3.06E-04 | 3.06E-04 | 1.71E-04 | 4.36E-06 | 6.34E-05 | 4.79E-05 | 4.79E-05 | 2.63E-05 | 2.37E-06 | 3.43E-05 | 2.13E-05 | 2.13E-05 | 1.05E-05 |
| 113 | 258398.38 | 4085410.27 | 2.97E-05 | 4.29E-04 | 3.16E-04 | 3.16E-04 | 1.76E-04 | 4.51E-06 | 6.54E-05 | 4.94E-05 | 4.94E-05 | 2.72E-05 | 2.45E-06 | 3.54E-05 | 2.20E-05 | 2.20E-05 | 1.09E-05 |
| 114 | 258664.33 | 4085111.36 | 3.44E-05 | 4.98E-04 | 3.67E-04 | 3.67E-04 | 2.05E-04 | 5.23E-06 | 7.39E-05 | 5.73E-05 | 5.73E-05 | 3.15E-05 | 2.84E-06 | 4.11E-05 | 2.35E-05 | 2.55E-05 | 1.26E-05 |
| 115 | 258663.61 | 4085086.6 | 3.77E-05 | 5.45E-04 | 4.02E-04 | 4.02E-04 | 2.24E-04 | 5.72E-06 | 8.30E-05 | 6.27E-05 | 6.27E-06 | 3.45E-05 | 3.11E-06 | 4.49E-05 | 2.79E-06 | 2.79E-05 | 1.38E-05 |
| 116 | 258662.89 | 4085061.85 | 4.13E-05 | 5.97E-04 | 4.40E-04 | 4.40E-04 | 2.45E-04 | 6.27E-06 | 9.10E-05 | 6.87E-05 | 6.87E-05 | 3.78E-05 | 3.40E-06 | 4.92E-05 | 3.06E-05 | 3.06E-05 | 1.51E-05 |
| 117 | 258662.16 | 4085037.09 | 4.53E-05 | 6.55E-04 | 4.83E-04 | 4.83E-04 | 2.69E-04 | 6.88E-06 | 9.98E-05 | 7.34E-05 | 7.54E-05 | 4.15E-05 | 3.74E-06 | 5.40E-05 | 3.36E-05 | 3.36E-05 | 1.66E-05 |
| 118 | 258661.44 | 4085012.33 | 4.97E-05 | 7.19E-04 | 5.30E-04 | 5.30E-04 | 2.95E-04 | 7.54E-06 | 1.09E-04 | 8.27E-05 | 8.27E-05 | 4.55E-05 | 4.10E-06 | 5.92E-05 | 3.68E-05 | 3.68E-05 | 1.82E-05 |
| 119 | 258660.72 | 4084987.58 | 5.43E-05 | 7.86E-04 | 5.79E-04 | 5.79E-04 | 3.23E-04 | 8.25E-06 | 1.20E-04 | 9.04E-05 | 9.04E-05 | 4.97E-05 | 4.48E-06 | 6.48E-05 | 4.02E-05 | 4.02E-05 | 1.99E-05 |
| 120 | 258660 | 4084962.82 | 5.91E-05 | 8.55E-04 | 6.30E-04 | 6.30E-04 | 3.51E-04 | 8.97E-06 | 1.30E-04 | 9.84E-05 | 9.84E-05 | 5.41E-05 | 4.87E-06 | 7.05E-05 | 4.38E-05 | 4.38E-05 | 2.17E-05 |
| 121 | 258659.27 | 4084938.06 | 6.38E-05 | 9.23E-04 | 6.81E-04 | 6.81E-04 | 3.79E-04 | 9.69E-06 | 1.41E-04 | 1.06E-04 | 1.06E-04 | 5.84E-05 | 5.26E-06 | 7.61E-05 | 4.73E-05 | 4.73E-05 | 2.34E-05 |
| 122 | 258658.55 | 4084913.31 | 6.82E-05 | 9.87E-04 | 7.27E-04 | 7.27E-04 | 4.06E-04 | 1.04E-05 | 1.50E-04 | 1.14E-04 | 1.14E-04 | 6.24E-05 | 5.62E-06 | 8.14E-05 | 5.05E-05 | 5.05E-05 | 2.50E-05 |
| 123 | 258756.07 | 4085130.28 | 2.34E-05 | 3.38E-04 | 2.49E-04 | 2.49E-04 | 1.39E-04 | 3.55E-06 | 5.15E-05 | 3.89E-05 | 3.89E-05 | 2.14E-05 | 1.93E-06 | 2.78E-05 | 1.73E-05 | 1.73E-05 | 8.56E-06 |
| 124 | 258747.86 | 4085152.12 | 2.26E-05 | 3.27E-04 | 2.41E-04 | 2.41E-04 | 1.34E-04 | 3.43E-06 | 4.98E-05 | 3.76E-06 | 3.76E-05 | 2.07E-05 | 1.86E-06 | 2.69E-05 | 1.67E-05 | 1.67E-05 | 8.28E-06 |
| 125 | 258739.64 | 4085173.97 | 2.18E-05 | 3.16E-04 | 2.33E-04 | 2.33E-04 | 1.30E-04 | 3.31E-06 | 4.81E-05 | 3.63E-05 | 3.63E-05 | 2.00E-05 | 1.80E-06 | 2.60E-05 | 1.62E-05 | 1.62E-05 | 8.00E-06 |
| 126 | 258731.43 | 4085195.81 | 2.10E-05 | 3.04E-04 | 2.24E-04 | 2.24E-04 | 1.25E-04 | 3.19E-06 | 4.63E-05 | 3.50E-05 | 3.50E-05 | 1.92E-05 | 1.73E-06 | 2.51E-05 | 1.36E-05 | 1.56E-05 | 7.71E-06 |
| 127 | 258723.22 | 4085217.65 | 2.02E-05 | 2.93E-04 | 2.16E-04 | 2.16E-04 | 1.20E-04 | 3.07E-06 | 4.46E-05 | 3.37E-05 | 3.37E-05 | 1.85E-05 | 1.67E-06 | 2.41E-05 | 1.50E-05 | 1.50E-05 | 7.42E-06 |
| 128 | 258715 | 4085239.49 | 1.95E-06 | 2.81E-04 | 2.07E-04 | 2.07E-04 | 1.16E-04 | 2.95E-06 | 4.29E-05 | 3.24E-05 | 3.24E-05 | 1.78E-05 | 1.60E-06 | 2.32E-05 | 1.44E-05 | 1.44E-05 | 7.13E-06 |
| 129 | 258706.79 | 4085261.33 | 1.87E-05 | 2.70E-04 | 1.99E-04 | 1.99E-04 | 1.11E-04 | 2.84E-06 | 4.12E-05 | 3.11E-05 | 3.11E-06 | 1.71E-05 | 1.54E-06 | 2.23E-05 | 1.38E-05 | 1.38E-06 | 6.85E-06 |
| 130 | 258698.57 | 4085283.17 | 1.80E-05 | 2.60E-04 | 1.91E-04 | 1.91E-04 | 1.07E-04 | 2.73E-06 | 3.96E-05 | 2.99E-05 | 2.99E-05 | 1.64E-05 | 1.48E-06 | 2.14E-05 | 1.33E-05 | 1.33E-05 | 6.58E-06 |
| 131 | 258690.36 | 4085305.01 | 1.72E-05 | 2.49E-04 | 1.84E-04 | 1.84E-04 | 1.02E-04 | 2.62E-06 | 3.80E-05 | 2.87E-05 | 2.87E-05 | 1.56E-05 | 1.42E-06 | 2.06E-05 | 1.28E-05 | 1.28E-05 | 6.32E-06 |
| 132 | 258682.14 | 4085326.85 | 1.65E-05 | 2.39E-04 | 1.76E-04 | 1.76E-04 | 9.83E-05 | 2.51E-06 | 3.64E-05 | 2.75E-05 | 2.75E-05 | 1.31E-05 | 1.36E-06 | 1.97E-05 | 1.22E-05 | 1.22E-05 | 6.06E-06 |
| 133 | 258673.93 | 4085348.7 | 1.60E-05 | 2.31E-04 | 1.70E-04 | 1.70E-04 | 9.48E-05 | 2.42E-06 | 3.51E-05 | 2.66E-05 | 2.66E-05 | 1.46E-05 | 1.31E-06 | 1.90E-05 | 1.18E-05 | 1.18E-05 | 5.85E-06 |
| 134 | 258665.71 | 4085370.54 | 1.54E-05 | 2.22E-04 | 1.64E-04 | 1.64E-04 | 9.13E-05 | 2.33E-06 | 3.38E-05 | 2.56E-05 | 2.56E-05 | 1.41E-05 | 1.27E-06 | 1.83E-05 | 1.14E-05 | 1.14E-05 | 5.63E-06 |
| 135 | 258636.32 | 4085402.17 | 1.53E-05 | 2.21E-04 | 1.63E-04 | 1.63E-04 | 9.09E-05 | 2.32E-06 | 3.37E-05 | 2.34E-05 | 2.54E-05 | 1.40E-05 | 1.26E-06 | 1.82E-05 | 1.13E-05 | 1.13E-05 | 5.60E-06 |
| 136 | 258615.14 | 4085411.97 | 1.37E-05 | 2.27E-04 | 1.68E-04 | 1.68E-04 | 9.35E-05 | 2.39E-06 | 3.47E-05 | 2.62E-06 | 2.62E-05 | 1.44E-05 | 1.30E-06 | 1.88E-05 | 1.16E-05 | 1.16E-05 | 5.77E-06 |
| 137 | 258593.96 | 4085421.76 | 1.62E-05 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.84E-05 | 2.46E-06 | 3.57E-05 | 2.70E-05 | 2.70E-05 | 1.48E-05 | 1.34E-06 | 1.93E-05 | 1.20E-05 | 1.20E-05 | 5.95E-06 |
| 138 | 258572.78 | 4085431.56 | 1.68E-05 | 2.42E-04 | 1.79E-04 | 1.79E-04 | 9.96E-05 | 2.54E-06 | 3.69E-05 | 2.79E-06 | 2.79E-06 | 1.33E-05 | 1.38E-06 | 2.00E-05 | 1.24E-05 | 1.24E-05 | 6.14E-06 |
| 139 | 258551.6 | 4085441.36 | 1.73E-05 | 2.51E-04 | 1.85E-04 | 1.85E-04 | 1.03E-04 | 2.63E-06 | 3.82E-05 | 2.88E-05 | 2.88E-06 | 1.59E-05 | 1.43E-06 | 2.07E-05 | 1.28E-05 | 1.28E-05 | 6.35E-06 |
| 140 | 258530.42 | 4085451.15 | 1.79E-05 | 2.59E-04 | 1.91E-04 | 1.91E-04 | 1.06E-04 | 2.72E-06 | 3.94E-05 | 2.98E-05 | 2.98E-05 | 1.64E-05 | 1.48E-06 | 2.13E-05 | 1.33E-05 | 1.33E-05 | 6.56E-06 |
| 141 | 258509.24 | 4085460.95 | 1.84E-05 | 2.67E-04 | 1.96E-04 | 1.96E-04 | 1.10E-04 | 2.80E-06 | 4.06E-05 | 3.07E-05 | 3.07E-05 | 1.69E-05 | 1.52E-06 | 2.20E-05 | 1.36E-05 | 1.36E-05 | 6.75E-06 |
| 142 | 258488.06 | 4085470.74 | 1.89E-05 | 2.74E-04 | 2.02E-04 | 2.02E-04 | 1.12E-04 | 2.87E-06 | 4.17E-05 | 3.15E-05 | 3.15E-05 | 1.73E-05 | 1.56E-06 | 2.26E-05 | 1.40E-05 | 1.40E-05 | 6.94E-06 |
| 143 | 258466.88 | 4085480.54 | 1.94E-05 | 2.81E-04 | 2.07E-04 | 2.07E-04 | 1.15E-04 | 2.95E-06 | 4.28E-05 | 3.23E-05 | 3.23E-05 | 1.78E-05 | 1.60E-06 | 2.31E-05 | 1.44E-05 | 1.44E-05 | 7.11E-06 |
| 144 | 258445.7 | 4085490.33 | 1.99E-05 | 2.88E-04 | 2.12E-04 | 2.12E-04 | 1.18E-04 | 3.02E-06 | 4.39E-05 | 3.31E-05 | 3.31E-05 | 1.82E-05 | 1.64E-06 | 2.37E-05 | 1.47E-05 | 1.47E-05 | 7.30E-06 |
| 145 | 258424.52 | 4085500.13 | 2.04E-05 | 2.96E-04 | 2.18E-04 | 2.18E-04 | 1.21E-04 | 3.10E-06 | 4.50E-05 | 3.40E-05 | 3.40E-05 | 1.87E-05 | 1.68E-06 | 2.44E-05 | 1.51E-05 | 1.51E-05 | 7.49E-06 |
| 146 | 258403.34 | 4085509.92 | 2.10E-05 | 3.04E-04 | 2.24E-04 | 2.24E-04 | 1.25E-04 | 3.19E-06 | 4.63E-05 | 3.49E-05 | 3.49E-05 | 1.92E-06 | 1.73E-06 | 2.50E-05 | 1.55E-05 | 1.35E-05 | 7.69E-06 |
| 147 | 258784.29 | 4085108.44 | 2.41E-05 | 3.49E-04 | 2.57E-04 | 2.57E-04 | 1.43E-04 | 3.66E-06 | 5.31E-05 | 4.01E-05 | 4.01E-05 | 2.21E-05 | 1.99E-06 | 2.87E-05 | 1.79E-05 | 1.79E-05 | 8.84E-06 |
| 148 | 258763.57 | 4085083.68 | 2.58E-05 | 3.73E-04 | 2.75E-04 | 2.75E-04 | 1.53E-04 | 3.92E-06 | 5.69E-05 | 4.30E-05 | 4.30E-05 | 2.36E-05 | 2.13E-06 | 3.08E-05 | 1.91E-05 | 1.91E-05 | 9.46E-06 |
| 149 | 258762.84 | 4085058.93 | 2.77E-05 | 4.01E-04 | 2.95E-04 | 2.95E-04 | 1.65E-04 | 4.21E-06 | 6.11E-05 | 4.61E-05 | 4.61E-05 | 2.54E-05 | 2.28E-06 | 3.30E-05 | 2.05E-05 | 2.05E-05 | 1.02E-05 |
| 150 | 258762.12 | 4085034.17 | 2.98E-05 | 4.31E-04 | 3.17E-04 | 3.17E-04 | 1.77E-04 | 4.52E-06 | 6.56E-05 | 4.96E-05 | 4.96E-05 | 2.73E-05 | 2.45E-06 | 3.55E-05 | 2.21E-05 | 2.21E-05 | 1.09E-05 |
| 151 | 258761.4 | 4085009.42 | 3.20E-05 | 4.63E-04 | 3.41E-04 | 3.41E-04 | 1.90E-04 | 4.86E-06 | 7.06E-05 | 5.33E-05 | 5.33E-05 | 2.93E-05 | 2.64E-06 | 3.82E-05 | 2.37E-05 | 2.37E-05 | 1.17E-05 |
| 152 | 258760.68 | 4084984.66 | 3.44E-05 | 4.98E-04 | 3.67E-04 | 3.67E-04 | 2.05E-04 | 5.23E-06 | 7.59E-05 | 5.73E-05 | 5.73E-05 | 3.15E-06 | 2.84E-06 | 4.11E-05 | 2.55E-05 | 2.55E-05 | 1.26E-05 |
| 153 | 258759.95 | 4084959.9 | 3.70E-05 | 5.35E-04 | 3.95E-04 | 3.95E-04 | 2.20E-04 | 5.62E-06 | 8.15E-05 | 6.16E-05 | 6.16E-05 | 3.39E-05 | 3.05E-06 | 4.41E-05 | 2.74E-05 | 2.74E-05 | 1.36E-05 |
| 154 | 258759.23 | 4084935.15 | 3.97E-05 | 5.74E-04 | 4.23E-04 | 4.23E-04 | 2.36E-04 | 6.02E-06 | 8.74E-05 | 6.61E-05 | 6.61E-05 | 3.63E-05 | 3.27E-06 | 4.73E-05 | 2.94E-05 | 2.94E-05 | 1.45E-05 |
| 155 | 258758.51 | 4084910.39 | 4.24E-05 | 6.13E-04 | 4.32E-04 | 4.32E-04 | 2.52E-04 | 6.43E-06 | 9.34E-05 | 7.05E-05 | 7.05E-05 | 3.88E-06 | 3.49E-06 | 5.05E-05 | 3.14E-05 | 3.14E-05 | 1.55E-05 |
| 156 | 258855.9 | 4085127.71 | 1.76E-05 | 2.54E-04 | 1.87E-04 | 1.87E-04 | 1.04E-04 | 2.67E-06 | 3.87E-05 | 2.93E-05 | 2.93E-05 | 1.61E-05 | 1.45E-06 | 2.10E-05 | 1.30E-05 | 1.30E-05 | 6.44E-06 |
| 157 | 258847.56 | 4085149.89 | 1.71E-05 | 2.48E-04 | 1.83E-04 | 1.83E-04 | 1.02E-04 | 2.60E-06 | 3.77E-05 | 2.85E-05 | 2.85E-05 | 1.57E-06 | 1.41E-06 | 2.04E-05 | 1.27E-05 | 1.27E-05 | 6.28E-06 |
| 158 | 258839.22 | 4085172.07 | 1.66E-05 | 2.41E-04 | 1.77E-04 | 1.77E-04 | 9.89E-05 | 2.53E-06 | 3.67E-06 | 2.77E-05 | 2.77E-05 | 1.32E-05 | 1.37E-06 | 1.98E-05 | 1.23E-05 | 1.23E-05 | 6.10E-06 |
| 159 | 258830.87 | 4085194.25 | 1.61E-05 | 2.33E-04 | 1.72E-04 | 1.72E-04 | 9.59E-05 | 2.45E-06 | 3.56E-05 | 2.69E-05 | 2.69E-05 | 1.48E-05 | 1.33E-06 | 1.92E-05 | 1.20E-05 | 1.20E-05 | 5.92E-06 |
| 160 | 258822.53 | 4085216.44 | 1.56E-05 | 2.25E-04 | 1.67E-04 | 1.67E-04 | 9.29E-05 | 2.37E-06 | 3.45E-05 | 2.60E-05 | 2.60E-05 | 1.43E-05 | 1.29E-06 | 1.86E-05 | 1.16E-05 | 1.16E-05 | 5.73E-06 |
| 161 | 258814.19 | 4085238.62 | 1.51E-05 | 2.19E-04 | 1.61E-04 | 1.61E-04 | 9.00E-05 | 2.30E-06 | 3.34E-05 | 2.52E-05 | 2.52E-05 | 1.39E-06 | 1.25E-06 | 1.80E-05 | 1.12E-05 | 1.12E-05 | 5.55E-06 |
| 162 | 258805.84 | 4085260.8 | 1.47E-05 | 2.12E-04 | 1.56E-04 | 1.56E-04 | 8.71E-05 | 2.22E-06 | 3.23E-05 | 2.44E-05 | 2.44E-05 | 1.34E-05 | 1.21E-06 | 1.75E-05 | 1.09E-05 | 1.09E-05 | 5.37E-06 |
| 163 | 258797.5 | 4085282.98 | 1.42E-05 | 2.05E-04 | 1.51E-04 | 1.51E-04 | 8.43E-05 | 2.15E-06 | 3.12E-05 | 2.36E-05 | 2.36E-05 | 1.30E-05 | 1.17E-06 | 1.69E-05 | 1.05E-05 | 1.05E-05 | 5.20E-06 |
| 164 | 258789.16 | 4085305.17 | 1.37E-05 | 1.98E-04 | 1.46E-04 | 1.46E-04 | 8.14E-05 | 2.06E-06 | 3.02E-05 | 2.28E-05 | 2.28E-05 | 1.25E-05 | 1.13E-06 | 1.63E-05 | 1.01E-05 | 1.01E-05 | 5.02E-06 |
| 165 | 258780.81 | 4085327.35 | 1.32E-05 | 1.91E-04 | 1.40E-04 | 1.40E-04 | 7.83E-05 | 2.00E-06 | 2.90E-05 | 2.19E-05 | 2.19E-05 | 1.21E-05 | 1.09E-06 | 1.57E-05 | 9.76E-06 | 9.76E-06 | 4.83E-06 |
| 166 | 258772.47 | 4085349.53 | 1.27E-05 | 1.84E-04 | 1.36E-04 | 1.36E-04 | 7.57E-05 | 1.93E-06 | 2.81E-05 | 2.12E-05 | 2.12E-05 | 1.17E-06 | 1.05E-06 | 1.52E-05 | 9.43E-06 | 9.43E-06 | 4.67E-06 |
| 167 | 258764.13 | 4085371.72 | 1.23E-05 | 1.78E-04 | 1.31E-04 | 1.31E-04 | 7.33E-05 | 1.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.13E-06 | 9.13E-06 | 4.52E-06 |
| 168 | 258755.78 | 4085393.9 | 1.19E-05 | 1.73E-04 | 1.27E-04 | 1.27E-04 | 7.09E-05 | 1.81E-06 | 2.63E-05 | 1.99E-05 | 1.99E-05 | 1.09E-05 | 9.84E-07 | 1.42E-05 | 8.84E-06 | 8.84E-06 | 4.38E-06 |
| 169 | 258747.44 | 4085416.08 | 1.16E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.88E-05 | 1.76E-06 | 2.55E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.54E-07 | 1.38E-05 | 8.57E-06 | 8.57E-06 | 4.24E-06 |
| 170 | 258739.1 | 4085438.26 | 1.12E-05 | 1.62E-04 | 1.20E-04 | 1.20E-04 | 6.67E-05 | 1.70E-06 | 2.47E-05 | 1.87E-05 | 1.87E-05 | 1.03E-05 | 9.26E-07 | 1.34E-05 | 8.32E-06 | 8.32E-06 | 4.12E-06 |
| 171 | 258709.24 | 4085470.39 | 1.12E-05 | 1.61E-04 | 1.19E-04 | 1.19E-04 | 6.63E-05 | 1.69E-06 | 2.45E-05 | 1.86E-05 | 1.86E-05 | 1.02E-05 | 9.19E-07 | 1.33E-05 | 8.26E-06 | 8.26E-06 | 4.09E-06 |
| 172 | 258687.73 | 4085480.34 | 1.14E-05 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.78E-05 | 1.73E-06 | 2.51E-05 | 1.90E-05 | 1.90E-05 | 1.04E-05 | 9.40E-07 | 1.36E-05 | 8.45E-06 | 8.45E-06 | 4.18E-06 |
| 173 | 258666.22 | 4085490.29 | 1.17E-05 | 1.69E-04 | 1.25E-04 | 1.25E-04 | 6.95E-05 | 1.77E-06 | 2.58E-05 | 1.95E-05 | 1.95E-05 | 1.07E-06 | 9.64E-07 | 1.39E-05 | 8.66E-06 | 8.66E-06 | 4.29E-06 |
| 174 | 258644.71 | 4085500.24 | 1.20E-05 | 1.74E-04 | 1.28E-04 | 1.28E-04 | 7.14E-05 | 1.82E-06 | 2.65E-05 | 2.00E-05 | 2.00E-05 | 1.10E-05 | 9.90E-07 | 1.43E-05 | 8.89E-06 | 8.89E-06 | 4.40E-06 |
| 175 | 258623.2 | 4085510.19 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.88E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.15E-06 | 9.15E-06 | 4.53E-06 |
| 176 | 258601.69 | 4085520.14 | 1.27E-05 | 1.84E-04 | 1.36E-04 | 1.36E-04 | 7.57E-05 | 1.93E-06 | 2.81E-05 | 2.12E-05 | 2.12E-05 | 1.17E-06 | 1.05E-06 | 1.52E-05 | 9.44E-06 | 9.44E-06 | 4.67E-06 |
| 177 | 258580.18 | 4085530.08 | 1.31E-05 | 1.90E-04 | 1.40E-04 | 1.40E-04 | 7.81E-05 | 1.99E-06 | 2.89E-05 | 2.19E-05 | 2.19E-05 | 1.20E-05 | 1.08E-06 | 1.57E-05 | 9.73E-06 | 9.73E-06 | 4.82E-06 |
| 178 | 258558.67 | 4085540.03 | 1.35E-05 | 1.96E-04 | 1.44E-04 | 1.44E-04 | 8.05E-05 | 2.05E-06 | 2.98E-05 | 2.25E-05 | 2.25E-05 | 1.24E-05 | 1.12E-06 | 1.61E-05 | 1.00E-05 | 1.00E-05 | 4.96E-06 |
| 179 | 258537.16 | 4085549.98 | 1.39E-05 | 2.01E-04 | 1.48E-04 | 1.48E-04 | 8.26E-05 | 2.11E-06 | 3.06E-05 | 2.31E-05 | 2.31E-05 | 1.27E-06 | 1.15E-06 | 1.66E-05 | 1.03E-05 | 1.03E-05 | 5.10E-06 |
| 180 | 258515.65 | 4085559.93 | 1.42E-05 | 2.06E-04 | 1.51E-04 | 1.51E-04 | 8.45E-05 | 2.16E-06 | 3.13E-05 | 2.37E-05 | 2.37E-05 | 1.30E-06 | 1.17E-06 | 1.69E-05 | 1.05E-05 | 1.05E-05 | 5.21E-06 |
| 181 | 258494.14 | 4085569.88 | 1.45E-05 | 2.10E-04 | 1.55E-04 | 1.55E-04 | 8.62E-05 | 2.20E-06 | 3.20E-05 | 2.41E-05 | 2.41E-05 | 1.33E-05 | 1.20E-06 | 1.73E-05 | 1.07E-05 | 1.07E-05 | 5.32E-06 |
| 182 | 258472.63 | 4085579.83 | 1.48E-05 | 2.14E-04 | 1.58E-04 | 1.58E-04 | 8.81E-05 | 2.25E-06 | 3.26E-05 | 2.47E-05 | 2.47E-05 | 1.36E-05 | 1.22E-06 | 1.77E-05 | 1.10E-05 | 1.10E-05 | 5.43E-06 |
| 183 | 258451.12 | 4085589.78 | 1.52E-05 | 2.19E-04 | 1.62E-04 | 1.62E-04 | 9.01E-05 | 2.30E-06 | 3.34E-05 | 2.52E-05 | 2.52E-05 | 1.39E-05 | 1.25E-06 | 1.81E-05 | 1.12E-05 | 1.12E-05 | 5.55E-06 |
| 184 | 258429.6 | 4085599.72 | 1.35E-05 | 2.24E-04 | 1.65E-04 | 1.65E-04 | 9.22E-05 | 2.35E-06 | 3.42E-05 | 2.58E-05 | 2.58E-05 | 1.42E-05 | 1.28E-06 | 1.85E-05 | 1.15E-05 | 1.15E-05 | 5.69E-06 |
| 185 | 258408.09 | 4085609.67 | 1.39E-05 | 2.30E-04 | 1.69E-04 | 1.69E-04 | 9.45E-05 | 2.41E-06 | 3.50E-05 | 2.65E-05 | 2.65E-05 | 1.45E-05 | 1.31E-06 | 1.89E-05 | 1.18E-05 | 1.18E-05 | 5.83E-06 |
| 186 | 258864.25 | 4085105.32 | 1.80E-05 | 2.61E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.73E-06 | 3.97E-05 | 3.00E-05 | 3.00E-05 | 1.65E-05 | 1.49E-06 | 2.15E-05 | 1.33E-05 | 1.33E-05 | 6.60E-06 |
| 187 | 258863.52 | 4085080.77 | 1.90E-05 | 2.75E-04 | 2.03E-04 | 2.03E-04 | 1.13E-04 | 2.89E-06 | 4.19E-05 | 3.17E-05 | 3.17E-05 | 1.74E-05 | 1.57E-06 | 2.27E-05 | 1.41E-05 | 1.41E-05 | 6.98E-06 |
| 188 | 258862.8 | 4085056.01 | 2.01E-05 | 2.91E-04 | 2.15E-04 | 2.15E-04 | 1.20E-04 | 3.06E-06 | 4.44E-05 | 3.35E-05 | 3.35E-05 | 1.84E-05 | 1.66E-06 | 2.40E-05 | 1.49E-05 | 1.49E-05 | 7.38E-06 |
| 189 | 258862.08 | 4085031.26 | 2.13E-05 | 3.09E-04 | 2.28E-04 | 2.28E-04 | 1.27E-04 | 3.24E-06 | 4.70E-05 | 3.55E-05 | 3.35E-05 | 1.95E-05 | 1.76E-06 | 2.55E-05 | 1.58E-05 | 1.58E-05 | 7.83E-06 |
| 190 | 258861.36 | 4085006.5 | 2.27E-05 | 3.28E-04 | 2.41E-04 | 2.41E-04 | 1.35E-04 | 3.44E-06 | 4.99E-05 | 3.77E-05 | 3.77E-05 | 2.07E-05 | 1.87E-06 | 2.70E-05 | 1.68E-05 | 1.68E-05 | 8.30E-06 |
| 191 | 258860.63 | 4084981.74 | 2.41E-05 | 3.48E-04 | 2.37E-04 | 2.57E-04 | 1.43E-04 | 3.65E-06 | 5.30E-05 | 4.01E-05 | 4.01E-05 | 2.20E-05 | 1.98E-06 | 2.87E-05 | 1.78E-05 | 1.78E-05 | 8.82E-06 |
| 192 | 258859.91 | 4084956.99 | 2.56E-05 | 3.70E-04 | 2.73E-04 | 2.73E-04 | 1.52E-04 | 3.88E-06 | 5.84E-05 | 4.26E-05 | 4.26E-05 | 2.34E-05 | 2.11E-06 | 3.05E-06 | 1.89E-05 | 1.89E-05 | 9.38E-06 |
| 193 | 258859.19 | 4084932.23 | 2.72E-05 | 3.93E-04 | 2.90E-04 | 2.90E-04 | 1.62E-04 | 4.13E-06 | 5.99E-05 | 4.53E-05 | 4.53E-05 | 2.49E-05 | 2.24E-06 | 3.24E-05 | 2.01E-05 | 2.01E-05 | 9.97E-06 |
| 194 | 258858.47 | 4084907.47 | 2.89E-05 | 4.18E-04 | 3.08E-04 | 3.08E-04 | 1.72E-04 | 4.38E-06 | 6.36E-05 | 4.81E-05 | 4.81E-05 | 2.64E-05 | 2.38E-06 | 3.44E-05 | 2.14E-05 | 2.14E-05 | 1.06E-05 |
| 195 | 258955.77 | 4085125.02 | 1.39E-05 | 2.00E-04 | 1.48E-04 | 1.48E-04 | 8.23E-05 | 2.10E-06 | 3.05E-05 | 2.31E-05 | 2.31E-05 | 1.27E-05 | 1.14E-06 | 1.65E-05 | 1.03E-05 | 1.03E-05 | 5.08E-06 |
| 196 | 258947.34 | 4085147.44 | 1.36E-05 | 1.96E-04 | 1.45E-04 | 1.45E-04 | 8.06E-05 | 2.06E-06 | 2.99E-05 | 2.26E-05 | 2.26E-05 | 1.24E-05 | 1.12E-06 | 1.62E-05 | 1.00E-05 | 1.00E-05 | 4.97E-06 |
| 197 | 258938.91 | 4085169.86 | 1.32E-05 | 1.92E-04 | 1.41E-04 | 1.41E-04 | 7.87E-05 | 2.01E-06 | 2.92E-05 | 2.20E-05 | 2.20E-05 | 1.21E-05 | 1.09E-06 | 1.58E-05 | 9.81E-06 | 9.81E-06 | 4.85E-06 |
| 198 | 258930.48 | 4085192.27 | 1.29E-05 | 1.87E-04 | 1.38E-04 | 1.38E-04 | 7.67E-05 | 1.96E-06 | 2.84E-05 | 2.15E-05 | 2.15E-05 | 1.18E-05 | 1.06E-06 | 1.54E-05 | 9.56E-06 | 9.56E-06 | 4.73E-06 |
| 199 | 258922.05 | 4085214.69 | 1.26E-05 | 1.82E-04 | 1.34E-04 | 1.34E-04 | 7.46E-05 | 1.91E-06 | 2.77E-05 | 2.09E-05 | 2.09E-05 | 1.15E-05 | 1.04E-06 | 1.50E-05 | 9.30E-06 | 9.30E-06 | 4.60E-06 |
| 200 | 258913.62 | 4085237.1 | 1.22E-05 | 1.77E-04 | 1.30E-04 | 1.30E-04 | 7.26E-05 | 1.85E-06 | 2.69E-05 | 2.03E-05 | 2.03E-05 | 1.12E-05 | 1.01E-06 | 1.46E-05 | 9.04E-06 | 9.04E-06 | 4.47E-06 |
| 201 | 258905.19 | 4085259.32 | 1.19E-05 | 1.72E-04 | 1.26E-04 | 1.26E-04 | 7.05E-05 | 1.80E-06 | 2.61E-05 | 1.97E-05 | 1.97E-05 | 1.09E-05 | 9.78E-07 | 1.41E-05 | 8.79E-06 | 8.79E-06 | 4.35E-06 |
| 202 | 258896.76 | 4085281.94 | 1.15E-05 | 1.66E-04 | 1.23E-04 | 1.23E-04 | 6.83E-05 | 1.75E-06 | 2.53E-05 | 1.91E-05 | 1.91E-05 | 1.05E-05 | 9.48E-07 | 1.37E-05 | 8.52E-06 | 8.52E-06 | 4.22E-06 |
| 203 | 258888.32 | 4085304.35 | 1.11E-05 | 1.61E-04 | 1.19E-04 | 1.19E-04 | 6.62E-05 | 1.69E-06 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.02E-05 | 9.18E-07 | 1.33E-05 | 8

| | | | UnMitigated | | 2004 | | | | T2L3 | | | | | | T4 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 2000 | 257758.52 | 4085171.97 | | | | | | | | | | | | | | |
| | | | 6.76E-04 | 9.78E-03 | 7.21E-03 | 7.21E-03 | 4.02E-03 | | 1.03E-04 | 1.49E-03 | 1.13E-03 | 1.13E-03 | 6.19E-04 | | 5.57E-05 | 8.06E-04 | 5.01E-04 | 5.01E-04 | 2.48E-04 |
| | | | Yr 1 | Yr 2 | Yr 3 | Yr 4 | Yr 5 | | Yr 1 | Yr 2 | Yr 3 | Yr 4 | Yr 5 | | Yr 1 | Yr 2 | Yr 3 | Yr 4 | Yr 5 |
| 1 | 258389.45 | 4085119.38 | 2.39E-04 | 3.46E-03 | 2.55E-03 | 2.55E-03 | 1.42E-03 | | 3.63E-05 | 5.26E-04 | 3.98E-04 | 3.98E-04 | 2.19E-04 | | 1.97E-05 | 2.85E-04 | 1.77E-04 | 1.77E-04 | 8.76E-05 |
| 2 | 258388.73 | 4085094.62 | 3.81E-04 | 5.51E-03 | 4.06E-03 | 4.06E-03 | 2.26E-03 | | 5.78E-05 | 8.39E-04 | 6.34E-04 | 6.34E-04 | 3.48E-04 | | 3.14E-05 | 4.54E-04 | 2.82E-04 | 2.82E-04 | 1.40E-04 |
| 3 | 258388 | 4085069.87 | 5.28E-04 | 7.63E-03 | 5.63E-03 | 5.63E-03 | 3.14E-03 | | 8.01E-05 | 1.16E-03 | 8.79E-04 | 8.79E-04 | 4.83E-04 | | 4.35E-05 | 6.29E-04 | 3.91E-04 | 3.91E-04 | 1.93E-04 |
| 4 | 258387.28 | 4085045.11 | 6.21E-04 | 8.98E-03 | 6.62E-03 | 6.62E-03 | 3.69E-03 | | 9.42E-05 | 1.37E-03 | 1.03E-03 | 1.03E-03 | 5.68E-04 | | 5.12E-05 | 7.40E-04 | 4.60E-04 | 4.60E-04 | 2.28E-04 |
| 5 | 258386.56 | 4085020.36 | 6.74E-04 | 9.75E-03 | 7.19E-03 | 7.19E-03 | 4.01E-03 | | 1.02E-04 | 1.49E-03 | 1.12E-03 | 1.12E-03 | 6.17E-04 | | 5.56E-05 | 8.04E-04 | 4.99E-04 | 4.99E-04 | 2.47E-04 |
| 6 | 258385.84 | 4084995.6 | 7.00E-04 | 1.01E-02 | 7.46E-03 | 7.46E-03 | 4.16E-03 | | 1.06E-04 | 1.54E-03 | 1.17E-03 | 1.17E-03 | 6.41E-04 | | 5.77E-05 | 8.35E-04 | 5.18E-04 | 5.18E-04 | 2.57E-04 |
| 7 | 258385.11 | 4084970.84 | 7.00E-04 | 1.01E-02 | 7.46E-03 | 7.46E-03 | 4.16E-03 | | 1.06E-04 | 1.54E-03 | 1.17E-03 | 1.17E-03 | 6.41E-04 | | 5.77E-05 | 8.35E-04 | 5.19E-04 | 5.19E-04 | 2.57E-04 |
| 8 | 258384.39 | 4084946.09 | 6.71E-04 | 9.71E-03 | 7.16E-03 | 7.16E-03 | 3.99E-03 | | 1.02E-04 | 1.48E-03 | 1.12E-03 | 1.12E-03 | 6.14E-04 | | 5.53E-05 | 8.00E-04 | 4.97E-04 | 4.97E-04 | 2.46E-04 |
| 9 | 258383.67 | 4084921.33 | 5.79E-04 | 8.37E-03 | 6.17E-03 | 6.17E-03 | 3.44E-03 | | 8.79E-05 | 1.28E-03 | 9.64E-04 | 9.64E-04 | 5.30E-04 | | 4.77E-05 | 6.90E-04 | 4.29E-04 | 4.29E-04 | 2.12E-04 |
| 10 | 258407.76 | 4085136.4 | 1.47E-04 | 2.13E-03 | 1.57E-03 | 1.57E-03 | 8.74E-04 | | 2.23E-05 | 3.24E-04 | 2.45E-04 | 2.45E-04 | 1.35E-04 | | 1.21E-05 | 1.75E-04 | 1.09E-04 | 1.09E-04 | 5.39E-05 |
| 11 | 258383.88 | 4085162.1 | 1.42E-04 | 2.05E-03 | 1.51E-03 | 1.51E-03 | 8.43E-04 | | 2.15E-05 | 3.13E-04 | 2.36E-04 | 2.36E-04 | 1.30E-04 | | 1.17E-05 | 1.69E-04 | 1.05E-04 | 1.05E-04 | 5.20E-05 |
| 12 | 258413.72 | 4085093.9 | 2.34E-04 | 3.39E-03 | 2.50E-03 | 2.50E-03 | 1.39E-03 | | 3.56E-05 | 5.16E-04 | 3.90E-04 | 3.90E-04 | 2.14E-04 | | 1.93E-05 | 2.79E-04 | 1.74E-04 | 1.74E-04 | 8.59E-05 |
| 13 | 258412.99 | 4085069.14 | 3.15E-04 | 4.55E-03 | 3.35E-03 | 3.35E-03 | 1.87E-03 | | 4.78E-05 | 6.93E-04 | 5.24E-04 | 5.24E-04 | 2.88E-04 | | 2.59E-05 | 3.75E-04 | 2.33E-04 | 2.33E-04 | 1.15E-04 |
| 14 | 258412.27 | 4085044.38 | 3.83E-04 | 5.54E-03 | 4.09E-03 | 4.09E-03 | 2.28E-03 | | 5.82E-05 | 8.45E-04 | 6.38E-04 | 6.38E-04 | 3.51E-04 | | 3.16E-05 | 4.57E-04 | 2.84E-04 | 2.84E-04 | 1.40E-04 |
| 15 | 258411.55 | 4085019.63 | 4.32E-04 | 6.25E-03 | 4.60E-03 | 4.60E-03 | 2.57E-03 | | 6.55E-05 | 9.51E-04 | 7.19E-04 | 7.19E-04 | 3.95E-04 | | 3.56E-05 | 5.15E-04 | 3.20E-04 | 3.20E-04 | 1.58E-04 |
| 16 | 258410.83 | 4084994.87 | 4.61E-04 | 6.67E-03 | 4.92E-03 | 4.92E-03 | 2.74E-03 | | 7.00E-05 | 1.02E-03 | 7.67E-04 | 7.67E-04 | 4.22E-04 | | 3.80E-05 | 5.50E-04 | 3.41E-04 | 3.41E-04 | 1.69E-04 |
| 17 | 258410.1 | 4084970.11 | 4.72E-04 | 6.83E-03 | 5.03E-03 | 5.03E-03 | 2.81E-03 | | 7.17E-05 | 1.04E-03 | 7.86E-04 | 7.86E-04 | 4.32E-04 | | 3.89E-05 | 5.63E-04 | 3.50E-04 | 3.50E-04 | 1.73E-04 |
| 18 | 258409.38 | 4084945.36 | 4.63E-04 | 6.70E-03 | 4.93E-03 | 4.93E-03 | 2.75E-03 | | 7.03E-05 | 1.02E-03 | 7.71E-04 | 7.71E-04 | 4.24E-04 | | 3.82E-05 | 5.52E-04 | 3.43E-04 | 3.43E-04 | 1.70E-04 |
| 19 | 258408.66 | 4084920.6 | 4.30E-04 | 6.21E-03 | 4.58E-03 | 4.58E-03 | 2.55E-03 | | 6.52E-05 | 9.46E-04 | 7.15E-04 | 7.15E-04 | 3.93E-04 | | 3.54E-05 | 5.12E-04 | 3.18E-04 | 3.18E-04 | 1.57E-04 |
| 20 | 258432.75 | 4085135.67 | 1.16E-04 | 1.67E-03 | 1.23E-03 | 1.23E-03 | 6.88E-04 | | 1.76E-05 | 2.55E-04 | 1.93E-04 | 1.93E-04 | 1.06E-04 | | 9.54E-06 | 1.38E-04 | 8.57E-05 | 8.57E-05 | 4.24E-05 |
| 21 | 258402.2 | 4085179.12 | 1.02E-04 | 1.48E-03 | 1.09E-03 | 1.09E-03 | 6.06E-04 | | 1.55E-05 | 2.25E-04 | 1.70E-04 | 1.70E-04 | 9.34E-05 | | 8.41E-06 | 1.22E-04 | 7.56E-05 | 7.56E-05 | 3.74E-05 |
| 22 | 258438.71 | 4085093.17 | 1.66E-04 | 2.40E-03 | 1.77E-03 | 1.77E-03 | 9.88E-04 | | 2.52E-05 | 3.66E-04 | 2.77E-04 | 2.77E-04 | 1.52E-04 | | 1.37E-05 | 1.98E-04 | 1.23E-04 | 1.23E-04 | 6.09E-05 |
| 23 | 258437.98 | 4085068.41 | 2.14E-04 | 3.09E-03 | 2.28E-03 | 2.28E-03 | 1.27E-03 | | 3.24E-05 | 4.70E-04 | 3.55E-04 | 3.55E-04 | 1.95E-04 | | 1.76E-05 | 2.55E-04 | 1.58E-04 | 1.58E-04 | 7.83E-05 |
| 24 | 258437.26 | 4085043.65 | 2.61E-04 | 3.77E-03 | 2.78E-03 | 2.78E-03 | 1.55E-03 | | 3.96E-05 | 5.74E-04 | 4.34E-04 | 4.34E-04 | 2.39E-04 | | 2.15E-05 | 3.11E-04 | 1.93E-04 | 1.93E-04 | 9.56E-05 |
| 25 | 258436.54 | 4085018.9 | 3.00E-04 | 4.34E-03 | 3.20E-03 | 3.20E-03 | 1.78E-03 | | 4.55E-05 | 6.61E-04 | 4.99E-04 | 4.99E-04 | 2.74E-04 | | 2.47E-05 | 3.57E-04 | 2.22E-04 | 2.22E-04 | 1.10E-04 |
| 26 | 258435.82 | 4084994.14 | 3.28E-04 | 4.74E-03 | 3.49E-03 | 3.49E-03 | 1.95E-03 | | 4.97E-05 | 7.22E-04 | 5.45E-04 | 5.45E-04 | 3.00E-04 | | 2.70E-05 | 3.91E-04 | 2.43E-04 | 2.43E-04 | 1.20E-04 |
| 27 | 258435.09 | 4084969.38 | 3.43E-04 | 4.96E-03 | 3.66E-03 | 3.66E-03 | 2.04E-03 | | 5.21E-05 | 7.56E-04 | 5.71E-04 | 5.71E-04 | 3.14E-04 | | 2.83E-05 | 4.09E-04 | 2.54E-04 | 2.54E-04 | 1.26E-04 |
| 28 | 258434.37 | 4084944.63 | 3.45E-04 | 4.99E-03 | 3.68E-03 | 3.68E-03 | 2.05E-03 | | 5.23E-05 | 7.60E-04 | 5.74E-04 | 5.74E-04 | 3.16E-04 | | 2.84E-05 | 4.11E-04 | 2.55E-04 | 2.55E-04 | 1.26E-04 |
| 29 | 258433.65 | 4084919.87 | 3.33E-04 | 4.82E-03 | 3.55E-03 | 3.55E-03 | 1.98E-03 | | 5.06E-05 | 7.34E-04 | 5.55E-04 | 5.55E-04 | 3.05E-04 | | 2.75E-05 | 3.97E-04 | 2.47E-04 | 2.47E-04 | 1.22E-04 |
| 30 | 258457.74 | 4085134.94 | 9.45E-05 | 1.37E-03 | 1.01E-03 | 1.01E-03 | 5.62E-04 | | 1.43E-05 | 2.08E-04 | 1.57E-04 | 1.57E-04 | 8.65E-05 | | 7.79E-06 | 1.13E-04 | 7.00E-05 | 7.00E-05 | 3.46E-05 |
| 31 | 258444.39 | 4085170.43 | 7.99E-05 | 1.16E-03 | 8.52E-04 | 8.52E-04 | 4.75E-04 | | 1.21E-05 | 1.76E-04 | 1.33E-04 | 1.33E-04 | 7.31E-05 | | 6.59E-06 | 9.53E-05 | 5.92E-05 | 5.92E-05 | 2.93E-05 |
| 32 | 258420.51 | 4085196.14 | 7.84E-05 | 1.13E-03 | 8.36E-04 | 8.36E-04 | 4.66E-04 | | 1.19E-05 | 1.73E-04 | 1.31E-04 | 1.31E-04 | 7.17E-05 | | 6.46E-06 | 9.35E-05 | 5.81E-05 | 5.81E-05 | 2.87E-05 |
| 33 | 258386.09 | 4085212.05 | 8.81E-05 | 1.27E-03 | 9.39E-04 | 9.39E-04 | 5.23E-04 | | 1.34E-05 | 1.94E-04 | 1.47E-04 | 1.47E-04 | 8.06E-05 | | 7.26E-06 | 1.05E-04 | 6.52E-05 | 6.52E-05 | 3.23E-05 |
| 34 | 258463.69 | 4085092.44 | 1.27E-04 | 1.84E-03 | 1.36E-03 | 1.36E-03 | 7.57E-04 | | 1.93E-05 | 2.81E-04 | 2.12E-04 | 2.12E-04 | 1.17E-04 | | 1.05E-05 | 1.52E-04 | 9.43E-05 | 9.43E-05 | 4.67E-05 |
| 35 | 258462.97 | 4085067.68 | 1.58E-04 | 2.28E-03 | 1.68E-03 | 1.68E-03 | 9.37E-04 | | 2.39E-05 | 3.47E-04 | 2.62E-04 | 2.62E-04 | 1.44E-04 | | 1.30E-05 | 1.88E-04 | 1.17E-04 | 1.17E-04 | 5.78E-05 |
| 36 | 258462.25 | 4085042.92 | 1.90E-04 | 2.75E-03 | 2.03E-03 | 2.03E-03 | 1.13E-03 | | 2.89E-05 | 4.19E-04 | 3.16E-04 | 3.16E-04 | 1.74E-04 | | 1.57E-05 | 2.27E-04 | 1.41E-04 | 1.41E-04 | 6.97E-05 |
| 37 | 258461.53 | 4085018.17 | 2.20E-04 | 3.18E-03 | 2.35E-03 | 2.35E-03 | 1.31E-03 | | 3.34E-05 | 4.85E-04 | 3.66E-04 | 3.66E-04 | 2.01E-04 | | 1.81E-05 | 2.62E-04 | 1.63E-04 | 1.63E-04 | 8.07E-05 |
| 38 | 258460.8 | 4084993.41 | 2.44E-04 | 3.53E-03 | 2.60E-03 | 2.60E-03 | 1.45E-03 | | 3.71E-05 | 5.38E-04 | 4.06E-04 | 4.06E-04 | 2.23E-04 | | 2.01E-05 | 2.91E-04 | 1.81E-04 | 1.81E-04 | 8.95E-05 |
| 39 | 258460.08 | 4084968.66 | 2.60E-04 | 3.77E-03 | 2.78E-03 | 2.78E-03 | 1.55E-03 | | 3.95E-05 | 5.74E-04 | 4.33E-04 | 4.33E-04 | 2.38E-04 | | 2.15E-05 | 3.10E-04 | 1.93E-04 | 1.93E-04 | 9.54E-05 |
| 40 | 258459.36 | 4084943.9 | 2.67E-04 | 3.87E-03 | 2.85E-03 | 2.85E-03 | 1.59E-03 | | 4.06E-05 | 5.89E-04 | 4.45E-04 | 4.45E-04 | 2.45E-04 | | 2.20E-05 | 3.19E-04 | 1.98E-04 | 1.98E-04 | 9.80E-05 |
| 41 | 258458.64 | 4084919.14 | 2.64E-04 | 3.82E-03 | 2.81E-03 | 2.81E-03 | 1.57E-03 | | 4.01E-05 | 5.82E-04 | 4.39E-04 | 4.39E-04 | 2.42E-04 | | 2.18E-05 | 3.15E-04 | 1.96E-04 | 1.96E-04 | 9.68E-05 |
| 42 | 258506.39 | 4085137.03 | 6.69E-05 | 9.67E-04 | 7.13E-04 | 7.13E-04 | 3.97E-04 | | 1.02E-05 | 1.47E-04 | 1.11E-04 | 1.11E-04 | 6.12E-05 | | 5.51E-06 | 7.97E-05 | 4.95E-05 | 4.95E-05 | 2.45E-05 |
| 43 | 258498.38 | 4085158.32 | 6.18E-05 | 8.94E-04 | 6.59E-04 | 6.59E-04 | 3.67E-04 | | 9.38E-06 | 1.36E-04 | 1.03E-04 | 1.03E-04 | 5.65E-05 | | 5.09E-06 | 7.37E-05 | 4.58E-05 | 4.58E-05 | 2.26E-05 |
| 44 | 258490.37 | 4085179.62 | 5.71E-05 | 8.26E-04 | 6.09E-04 | 6.09E-04 | 3.40E-04 | | 8.67E-06 | 1.26E-04 | 9.51E-05 | 9.51E-05 | 5.23E-05 | | 4.71E-06 | 6.81E-05 | 4.23E-05 | 4.23E-05 | 2.09E-05 |
| 45 | 258482.36 | 4085200.92 | 5.30E-05 | 7.66E-04 | 5.65E-04 | 5.65E-04 | 3.15E-04 | | 8.04E-06 | 1.17E-04 | 8.82E-05 | 8.82E-05 | 4.85E-05 | | 4.37E-06 | 6.32E-05 | 3.92E-05 | 3.92E-05 | 1.94E-05 |
| 46 | 258453.7 | 4085231.76 | 5.22E-05 | 7.55E-04 | 5.56E-04 | 5.56E-04 | 3.10E-04 | | 7.92E-06 | 1.15E-04 | 8.69E-05 | 8.69E-05 | 4.78E-05 | | 4.30E-06 | 6.22E-05 | 3.87E-05 | 3.87E-05 | 1.91E-05 |
| 47 | 258433.05 | 4085241.31 | 5.52E-05 | 7.99E-04 | 5.89E-04 | 5.89E-04 | 3.28E-04 | | 8.38E-06 | 1.22E-04 | 9.19E-05 | 9.19E-05 | 5.05E-05 | | 4.55E-06 | 6.59E-05 | 4.09E-05 | 4.09E-05 | 2.02E-05 |
| 48 | 258412.4 | 4085250.86 | 5.83E-05 | 8.44E-04 | 6.22E-04 | 6.22E-04 | 3.47E-04 | | 8.85E-06 | 1.29E-04 | 9.71E-05 | 9.71E-05 | 5.34E-05 | | 4.81E-06 | 6.96E-05 | 4.32E-05 | 4.32E-05 | 2.14E-05 |
| 49 | 258391.75 | 4085260.41 | 6.15E-05 | 8.89E-04 | 6.55E-04 | 6.55E-04 | 3.65E-04 | | 9.33E-06 | 1.35E-04 | 1.02E-04 | 1.02E-04 | 5.63E-05 | | 5.07E-06 | 7.33E-05 | 4.55E-05 | 4.55E-05 | 2.25E-05 |
| 50 | 258514.4 | 4085115.73 | 7.23E-05 | 1.05E-03 | 7.71E-04 | 7.71E-04 | 4.30E-04 | | 1.10E-05 | 1.59E-04 | 1.20E-04 | 1.20E-04 | 6.62E-05 | | 5.96E-06 | 8.62E-05 | 5.35E-05 | 5.35E-05 | 2.65E-05 |
| 51 | 258513.67 | 4085090.98 | 8.46E-05 | 1.22E-03 | 9.02E-04 | 9.02E-04 | 5.03E-04 | | 1.28E-05 | 1.86E-04 | 1.41E-04 | 1.41E-04 | 7.75E-05 | | 6.98E-06 | 1.01E-04 | 6.27E-05 | 6.27E-05 | 3.10E-05 |
| 52 | 258512.95 | 4085066.22 | 9.95E-05 | 1.44E-03 | 1.06E-03 | 1.06E-03 | 5.91E-04 | | 1.51E-05 | 2.19E-04 | 1.66E-04 | 1.66E-04 | 9.10E-05 | | 8.20E-06 | 1.19E-04 | 7.37E-05 | 7.37E-05 | 3.65E-05 |
| 53 | 258512.23 | 4085041.47 | 1.16E-04 | 1.68E-03 | 1.24E-03 | 1.24E-03 | 6.90E-04 | | 1.76E-05 | 2.56E-04 | 1.93E-04 | 1.93E-04 | 1.06E-04 | | 9.57E-06 | 1.38E-04 | 8.60E-05 | 8.60E-05 | 4.26E-05 |
| 54 | 258511.51 | 4085016.71 | 1.33E-04 | 1.93E-03 | 1.42E-03 | 1.42E-03 | 7.92E-04 | | 2.02E-05 | 2.94E-04 | 2.22E-04 | 2.22E-04 | 1.22E-04 | | 1.10E-05 | 1.59E-04 | 9.87E-05 | 9.87E-05 | 4.89E-05 |
| 55 | 258510.78 | 4084991.95 | 1.49E-04 | 2.16E-03 | 1.59E-03 | 1.59E-03 | 8.87E-04 | | 2.27E-05 | 3.29E-04 | 2.49E-04 | 2.49E-04 | 1.37E-04 | | 1.23E-05 | 1.78E-04 | 1.11E-04 | 1.11E-04 | 5.47E-05 |
| 56 | 258510.06 | 4084967.2 | 1.63E-04 | 2.35E-03 | 1.73E-03 | 1.73E-03 | 9.66E-04 | | 2.47E-05 | 3.58E-04 | 2.71E-04 | 2.71E-04 | 1.49E-04 | | 1.34E-05 | 1.94E-04 | 1.20E-04 | 1.20E-04 | 5.96E-05 |
| 57 | 258509.34 | 4084942.44 | 1.72E-04 | 2.49E-03 | 1.83E-03 | 1.83E-03 | 1.02E-03 | | 2.61E-05 | 3.79E-04 | 2.86E-04 | 2.86E-04 | 1.57E-04 | | 1.42E-05 | 2.05E-04 | 1.27E-04 | 1.27E-04 | 6.31E-05 |
| 58 | 258508.62 | 4084917.68 | 1.77E-04 | 2.56E-03 | 1.89E-03 | 1.89E-03 | 1.05E-03 | | 2.68E-05 | 3.90E-04 | 2.94E-04 | 2.94E-04 | 1.62E-04 | | 1.46E-05 | 2.11E-04 | 1.31E-04 | 1.31E-04 | 6.48E-05 |
| 59 | 258556.75 | 4085134.56 | 5.12E-05 | 7.41E-04 | 5.46E-04 | 5.46E-04 | 3.05E-04 | | 7.78E-06 | 1.13E-04 | 8.53E-05 | 8.53E-05 | 4.69E-05 | | 4.22E-06 | 6.11E-05 | 3.80E-05 | 3.80E-05 | 1.88E-05 |
| 60 | 258541.49 | 4085175.12 | 4.54E-05 | 6.56E-04 | 4.84E-04 | 4.84E-04 | 2.70E-04 | | 6.88E-06 | 9.99E-05 | 7.55E-05 | 7.55E-05 | 4.15E-05 | | 3.74E-06 | 5.41E-05 | 3.36E-05 | 3.36E-05 | 1.66E-05 |
| 61 | 258526.23 | 4085215.68 | 4.01E-05 | 5.80E-04 | 4.28E-04 | 4.28E-04 | 2.38E-04 | | 6.09E-06 | 8.84E-05 | 6.68E-05 | 6.68E-05 | 3.67E-05 | | 3.31E-06 | 4.78E-05 | 2.97E-05 | 2.97E-05 | 1.47E-05 |
| 62 | 258491.31 | 4085265.34 | 3.74E-05 | 5.41E-04 | 3.99E-04 | 3.99E-04 | 2.22E-04 | | 5.68E-06 | 8.24E-05 | 6.23E-05 | 6.23E-05 | 3.42E-05 | | 3.08E-06 | 4.46E-05 | 2.77E-05 | 2.77E-05 | 1.37E-05 |
| 63 | 258451.98 | 4085283.53 | 4.10E-05 | 5.93E-04 | 4.37E-04 | 4.37E-04 | 2.44E-04 | | 6.22E-06 | 9.03E-05 | 6.82E-05 | 6.82E-05 | 3.75E-05 | | 3.38E-06 | 4.89E-05 | 3.04E-05 | 3.04E-05 | 1.50E-05 |
| 64 | 258412.64 | 4085301.72 | 4.46E-05 | 6.45E-04 | 4.76E-04 | 4.76E-04 | 2.65E-04 | | 6.77E-06 | 9.83E-05 | 7.43E-05 | 7.43E-05 | 4.08E-05 | | 3.68E-06 | 5.32E-05 | 3.30E-05 | 3.30E-05 | 1.64E-05 |
| 65 | 258563.65 | 4085089.52 | 6.16E-05 | 8.91E-04 | 6.57E-04 | 6.57E-04 | 3.66E-04 | | 9.35E-06 | 1.36E-04 | 1.03E-04 | 1.03E-04 | 5.64E-05 | | 5.08E-06 | 7.34E-05 | 4.56E-05 | 4.56E-05 | 2.26E-05 |
| 66 | 258562.93 | 4085064.76 | 7.01E-05 | 1.01E-03 | 7.47E-04 | 7.47E-04 | 4.17E-04 | | 1.06E-05 | 1.54E-04 | 1.17E-04 | 1.17E-04 | 6.41E-05 | | 5.78E-06 | 8.36E-05 | 5.19E-05 | 5.19E-05 | 2.57E-05 |
| 67 | 258562.21 | 4085040.01 | 7.97E-05 | 1.15E-03 | 8.49E-04 | 8.49E-04 | 4.73E-04 | | 1.21E-05 | 1.76E-04 | 1.33E-04 | 1.33E-04 | 7.29E-05 | | 6.57E-06 | 9.50E-05 | 5.90E-05 | 5.90E-05 | 2.92E-05 |
| 68 | 258561.48 | 4085015.25 | 8.99E-05 | 1.30E-03 | 9.59E-04 | 9.59E-04 | 5.34E-04 | | 1.36E-05 | 1.98E-04 | 1.50E-04 | 1.50E-04 | 8.23E-05 | | 7.41E-06 | 1.07E-04 | 6.66E-05 | 6.66E-05 | 3.30E-05 |
| 69 | 258560.76 | 4084990.49 | 1.00E-04 | 1.45E-03 | 1.07E-03 | 1.07E-03 | 5.96E-04 | | 1.52E-05 | 2.21E-04 | 1.67E-04 | 1.67E-04 | 9.17E-05 | | 8.26E-06 | 1.19E-04 | 7.42E-05 | 7.42E-05 | 3.67E-05 |
| 70 | 258560.04 | 4084965.74 | 1.10E-04 | 1.59E-03 | 1.17E-03 | 1.17E-03 | 6.53E-04 | | 1.67E-05 | 2.42E-04 | 1.83E-04 | 1.83E-04 | 1.01E-04 | | 9.05E-06 | 1.31E-04 | 8.13E-05 | 8.13E-05 | 4.03E-05 |
| 71 | 258559.32 | 4084940.98 | 1.18E-04 | 1.71E-03 | 1.26E-03 | 1.26E-03 | 7.01E-04 | | 1.79E-05 | 2.60E-04 | 1.96E-04 | 1.96E-04 | 1.08E-04 | | 9.73E-06 | 1.41E-04 | 8.74E-05 | 8.74E-05 | 4.33E-05 |
| 72 | 258558.59 | 4084916.23 | 1.24E-04 | 1.80E-03 | 1.32E-03 | 1.32E-03 | 7.38E-04 | | 1.88E-05 | 2.73E-04 | 2.07E-04 | 2.07E-04 | 1.14E-04 | | 1.02E-05 | 1.48E-04 | 9.19E-05 | 9.19E-05 | 4.55E-05 |
| 73 | 258606.01 | 4085135 | 4.05E-05 | 5.85E-04 | 4.31E-04 | 4.31E-04 | 2.40E-04 | | 6.14E-06 | 8.91E-05 | 6.73E-05 | 6.73E-05 | 3.70E-05 | | 3.33E-06 | 4.82E-05 | 3.00E-05 | 3.00E-05 | 1.48E-05 |
| 74 | 258597.67 | 4085157.18 | 3.83E-05 | 5.54E-04 | 4.08E-04 | 4.08E-04 | 2.28E-04 | | 5.81E-06 | 8.44E-05 | 6.38E-05 | 6.38E-05 | 3.51E-05 | | 3.16E-06 | 4.57E-05 | 2.84E-05 | 2.84E-05 | 1.40E-05 |
| 75 | 258589.32 | 4085179.36 | 3.62E-05 | 5.24E-04 | 3.86E-04 | 3.86E-04 | 2.15E-04 | | 5.49E-06 | 7.98E-05 | 6.03E-05 | 6.03E-05 | 3.31E-05 | | 2.98E-06 | 4.32E-05 | 2.68E-05 | 2.68E-05 | 1.33E-05 |
| 76 | 258580.98 | 4085201.55 | 3.42E-05 | 4.94E-04 | 3.64E-04 | 3.64E-04 | 2.03E-04 | | 5.18E-06 | 7.53E-05 | 5.69E-05 | 5.69E-05 | 3.13E-05 | | 2.82E-06 | 4.07E-05 | 2.53E-05 | 2.53E-05 | 1.25E-05 |
| 77 | 258572.64 | 4085223.73 | 3.22E-05 | 4.66E-04 | 3.44E-04 | 3.44E-04 | 1.92E-04 | | 4.89E-06 | 7.10E-05 | 5.37E-05 | 5.37E-05 | 2.95E-05 | | 2.66E-06 | 3.84E-05 | 2.39E-05 | 2.39E-05 | 1.18E-05 |
| 78 | 258564.29 | 4085245.91 | 3.05E-05 | 4.40E-04 | 3.25E-04 | 3.25E-04 | 1.81E-04 | | 4.62E-06 | 6.71E-05 | 5.07E-05 | 5.07E-05 | 2.79E-05 | | 2.51E-06 | 3.63E-05 | 2.26E-05 | 2.26E-05 | 1.12E-05 |
| 79 | 258555.95 | 4085268.1 | 2.88E-05 | 4.17E-04 | 3.07E-04 | 3.07E-04 | 1.71E-04 | | 4.38E-06 | 6.35E-05 | 4.80E-05 | 4.80E-05 | 2.64E-05 | | 2.38E-06 | 3.44E-05 | 2.13E-05 | 2.13E-05 | 1.06E-05 |
| 80 | 258526.1 | 4085300.23 | 2.85E-05 | 4.12E-04 | 3.04E-04 | 3.04E-04 | 1.69E-04 | | 4.33E-06 | 6.28E-05 | 4.75E-05 | 4.75E-05 | 2.61E-05 | | 2.35E-06 | 3.40E-05 | 2.11E-05 | 2.11E-05 | 1.05E-05 |
| 81 | 258504.59 | 4085310.17 | 2.98E-05 | 4.31E-04 | 3.18E-04 | 3.18E-04 | 1.77E-04 | | 4.52E-06 | 6.56E-05 | 4.96E-05 | 4.96E-05 | 2.73E-05 | | 2.46E-06 | 3.55E-05 | 2.21E-05 | 2.21E-05 | 1.09E-05 |
| 82 | 258483.08 | 4085320.12 | 3.11E-05 | 4.50E-04 | 3.32E-04 | 3.32E-04 | 1.85E-04 | | 4.73E-06 | 6.86E-05 | 5.18E-05 | 5.18E-05 | 2.85E-05 | | 2.57E-06 | 3.71E-05 | 2.31E-05 | 2.31E-05 | 1.14E-05 |
| 83 | 258461.56 | 4085330.07 | 3.25E-05 | 4.70E-04 | 3.46E-04 | 3.46E-04 | 1.93E-04 | | 4.93E-06 | 7.16E-05 | 5.41E-05 | 5.41E-05 | 2.97E-05 | | 2.68E-06 | 3.87E-05 | 2.41E-05 | 2.41E-05 | 1.19E-05 |
| 84 | 258440.05 | 4085340.02 | 3.38E-05 | 4.89E-04 | 3.60E-04 | 3.60E-04 | 2.01E-04 | | 5.13E-06 | 7.45E-05 | 5.63E-05 | 5.63E-05 | 3.09E-05 | | 2.79E-06 | 4.03E-05 | 2.50E-05 | 2.50E-05 | 1.24E-05 |
| 85 | 258418.54 | 4085349.97 | 3.51E-05 | 5.08E-04 | 3.74E-04 | 3.74E-04 | 2.09E-04 | | 5.33E-06 | 7.74E-05 | 5.84E-05 | 5.84E-05 | 3.21E-05 | | 2.89E-06 | 4.19E-05 | 2.60E-05 | 2.60E-05 | 1.29E-05 |
| 86 | 258397.03 | 4085359.92 | 3.65E-05 | 5.28E-04 | 3.89E-04 | 3.89E-04 | 2.17E-04 | | 5.54E-06 | 8.04E-05 | 6.07E-05 | 6.07E-05 | 3.34E-05 | | 3.01E-06 | 4.35E-05 | 2.70E-05 | 2.70E-05 | 1.34E-05 |
| 87 | 258614.35 | 4085112.82 | 4.26E-05 | 6.16E-04 | 4.54E-04 | 4.54E-04 | 2.53E-04 | | 6.47E-06 | 9.39E-05 | 7.09E-05 | 7.09E-05 | 3.90E-05 | | 3.51E-06 | 5.08E-05 | 3.15E-05 | 3.15E-05 | 1.56E-05 |
| 88 | 258613.63 | 4085088.06 | 4.73E-05 | 6.84E-04 | 5.04E-04 | 5.04E-04 | 2.81E-04 | | 7.18E-06 | 1.04E-04 | 7.87E-05 | 7.87E-05 | 4.33E-05 | | 3.90E-06 | 5.64E-05 | 3.50E-05 | 3.50E-05 | 1.73E-05 |
| 89 | 258612.91 | 4085063.3 | 5.27E-05 | 7.62E-04 | 5.61E-04 | 5.61E-04 | 3.13E-04 | | 7.99E-06 | 1.16E-04 | 8.76E-05 | 8.76E-05 | 4.82E-05 | | 4.34E-06 | 6.28E-05 | 3.90E-05 | 3.90E-05 | 1.93E-05 |
| 90 | 258612.19 | 4085038.55 | 5.87E-05 | 8.48E-04 | 6.25E-04 | 6.25E-04 | 3.49E-04 | | 8.90E-06 | 1.29E-04 | 9.76E-05 | 9.76E-05 | 5.37E-05 | | 4.83E-06 | 6.99E-05 | 4.34E-05 | 4.34E-05 | 2.15E-05 |
| 91 | 258611.46 | 4085013.79 | 6.52E-05 | 9.43E-04 | 6.95E-04 | 6.95E-04 | 3.87E-04 | | 9.89E-06 | 1.44E-04 | 1.08E-04 | 1.08E-04 | 5.96E-05 | | 5.37E-06 | 7.77E-05 | 4.83E-05 | 4.83E-05 | 2.39E-05 |
| 92 | 258610.74 | 4084989.04 | 7.20E-05 | 1.04E-03 | 7.67E-04 | 7.67E-04 | 4.28E-04 | | 1.09E-05 | 1.59E-04 | 1.20E-04 | 1.20E-04 | 6.59E-05 | | 5.93E-06 | 8.58E-05 | 5.33E-05 | 5.33E-05 | 2.64E-05 |
| 93 | 258610.02 | 4084964.28 | 7.87E-05 | 1.14E-03 | 8.39E-04 | 8.39E-04 | 4.68E-04 | | 1.19E-05 | 1.73E-04 | 1.31E-04 | 1.31E-04 | 7.20E-05 | | 6.49E-06 | 9.38E-05 | 5.83E-05 | 5.83E-05 | 2.89E-05 |
| 94 | 258609.3 | 4084939.52 | 8.50E-05 | 1.23E-03 | 9.07E-04 | 9.07E-04 | 5.05E-04 | | 1.29E-05 | 1.87E-04 | 1.42E-04 | 1.42E-04 | 7.78E-05 | | 7.01E-06 | 1.01E-04 | 6.30E-05 | 6.30E-05 | 3.12E-05 |
| 95 | 258608.57 | 4084914.77 | 9.05E-05 | 1.31E-03 | 9.64E-04 | 9.64E-04 | 5.38E-04 | | 1.37E-05 | 1.99E-04 | 1.51E-04 | 1.51E-04 | 8.28E-05 | | 7.46E-06 | 1.08E-04 | 6.70E-05 | 6.70E-05 | 3.32E-05 |
| 96 | 258656.32 | 4085132.65 | 3.31E-05 | 4.78E-04 | 3.52E-04 | 3.52E-04 | 1.96E-04 | | 5.02E-06 | 7.28E-05 | 5.50E-05 | 5.50E-05 | 3.02E-05 | | 2.72E-06 | 3.94E-05 | 2.45E-05 | 2.45E-05 | 1.21E-05 |
| 97 | 258648.31 | 4085153.95 | 3.17E-05 | 4.58E-04 | 3.37E-04 | 3.37E-04 | 1.88E-04 | | 4.80E-06 | 6.97E-05 | 5.27E-05 | 5.27E-05 | 2.90E-05 | | 2.61E-06 | 3.77E-05 | 2.34E-05 | 2.34E-05 | 1.16E-05 |
| 98 | 258640.3 | 4085175.24 | 3.02E-05 | 4.37E-04 | 3.22E-04 | 3.22E-04 | 1.80E-04 | | 4.59E-06 | 6.66E-05 | 5.03E-05 | 5.03E-05 | 2.77E-05 | | 2.49E-06 | 3.60E-05 | 2.24E-05 | 2.24E-05 | 1.11E-05 |
| 99 | 258632.29 | 4085196.54 | 2.88E-05 | 4.17E-04 | 3.07E-04 | 3.07E-04 | 1.71E-04 | | 4.37E-06 | 6.35E-05 | 4.80E-05 | 

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2829 | 258522.8 | 4085765.64 | 9.05E-09 | 1.21E-07 | 1.29E-08 | 1.29E-08 | 9.97E-09 | 1.76E-07 | 1.37E-09 | 1.84E-08 | 2.29E-09 | 2.79E-09 | 1.54E-09 | 2.69E-08 | 7.46E-10 | 9.97E-09 | 1.24E-09 | 1.24E-09 | 6.15E-10 | 1.38E-08 |
| 2830 | 256512.85 | 4085744.03 | 8.72E-09 | 1.17E-07 | 1.72E-08 | 1.72E-08 | 9.61E-09 | 1.69E-07 | 1.32E-09 | 1.78E-08 | 2.69E-09 | 2.69E-09 | 1.48E-09 | 2.59E-08 | 7.19E-10 | 9.61E-09 | 1.20E-09 | 1.20E-09 | 5.93E-10 | 1.33E-08 |
| 2831 | 258502.9 | 4085772.42 | 8.37E-09 | 1.12E-07 | 1.65E-08 | 1.65E-08 | 9.22E-09 | 1.62E-07 | 1.27E-09 | 1.70E-08 | 2.58E-09 | 2.58E-09 | 1.42E-09 | 2.49E-08 | 6.90E-10 | 9.21E-09 | 1.15E-09 | 1.15E-09 | 5.69E-10 | 1.28E-08 |
| 2832 | 256492.95 | 4085700.81 | 8.00E-09 | 1.07E-07 | 1.58E-08 | 1.58E-08 | 8.81E-09 | 1.55E-07 | 1.21E-09 | 1.63E-08 | 2.47E-09 | 2.47E-09 | 1.36E-09 | 2.38E-08 | 6.59E-10 | 8.81E-09 | 1.10E-09 | 1.10E-09 | 5.44E-10 | 1.22E-08 |
| 2833 | 256483 | 4085679.2 | 7.60E-09 | 1.01E-07 | 1.50E-08 | 1.50E-08 | 8.37E-09 | 1.47E-07 | 1.15E-09 | 1.55E-08 | 2.34E-09 | 2.34E-09 | 1.29E-09 | 2.26E-08 | 6.26E-10 | 8.36E-09 | 1.04E-09 | 1.04E-09 | 5.16E-10 | 1.16E-08 |
| 2834 | 256473.04 | 4085657.58 | 7.16E-09 | 9.60E-08 | 1.42E-08 | 1.42E-08 | 7.91E-09 | 1.39E-07 | 1.09E-09 | 1.46E-08 | 2.21E-09 | 2.21E-09 | 1.22E-09 | 2.14E-08 | 5.92E-10 | 7.91E-09 | 9.86E-10 | 9.86E-10 | 4.88E-10 | 1.10E-08 |
| 2835 | 256463.09 | 4085635.97 | 6.77E-09 | 9.05E-08 | 1.34E-08 | 1.34E-08 | 7.46E-09 | 1.31E-07 | 1.03E-09 | 1.38E-08 | 2.09E-09 | 2.09E-09 | 1.15E-09 | 2.01E-08 | 5.58E-10 | 7.46E-09 | 9.30E-10 | 9.30E-10 | 4.60E-10 | 1.03E-08 |
| 2836 | 256453.14 | 4085614.36 | 6.37E-09 | 8.51E-08 | 1.26E-08 | 1.26E-08 | 7.02E-09 | 1.24E-07 | 9.67E-10 | 1.30E-08 | 1.97E-09 | 1.97E-09 | 1.08E-09 | 1.90E-08 | 5.23E-10 | 7.02E-09 | 8.75E-10 | 8.75E-10 | 4.35E-10 | 9.73E-09 |
| 2837 | 256443.19 | 4085592.75 | 6.00E-09 | 6.01E-08 | 1.18E-08 | 1.18E-08 | 6.61E-09 | 1.16E-07 | 9.10E-10 | 1.22E-08 | 1.85E-09 | 1.83E-09 | 1.02E-09 | 1.78E-08 | 4.94E-10 | 8.60E-09 | 8.25E-10 | 8.23E-10 | 4.07E-10 | 9.13E-09 |
| 2838 | 256433.24 | 4085571.14 | 5.65E-09 | 7.54E-08 | 1.12E-08 | 1.12E-08 | 6.22E-09 | 1.10E-07 | 8.57E-10 | 1.15E-08 | 1.74E-09 | 1.74E-09 | 9.58E-10 | 1.68E-08 | 4.65E-10 | 8.22E-09 | 7.75E-10 | 7.75E-10 | 3.84E-10 | 8.62E-09 |
| 2839 | 256423.28 | 4085549.52 | 5.53E-09 | 7.12E-08 | 1.05E-08 | 1.05E-08 | 5.88E-09 | 1.04E-07 | 6.09E-10 | 1.09E-08 | 1.65E-09 | 1.65E-09 | 9.05E-10 | 1.59E-08 | 4.40E-10 | 5.87E-09 | 7.32E-10 | 7.52E-10 | 5.62E-10 | 8.14E-09 |
| 2840 | 256413.33 | 4085527.91 | 5.06E-09 | 6.76E-08 | 1.00E-08 | 1.00E-08 | 5.57E-09 | 9.82E-08 | 7.66E-10 | 1.03E-08 | 1.56E-09 | 1.56E-09 | 8.56E-10 | 1.50E-08 | 4.17E-10 | 5.57E-09 | 6.94E-10 | 6.94E-10 | 3.44E-10 | 7.72E-09 |
| 2841 | 256403.38 | 4085506.3 | 4.82E-09 | 6.44E-08 | 9.53E-09 | 9.53E-09 | 5.31E-09 | 9.36E-08 | 7.32E-10 | 9.81E-09 | 1.49E-09 | 1.49E-09 | 8.18E-10 | 1.43E-08 | 3.97E-10 | 5.31E-09 | 6.62E-10 | 6.62E-10 | 3.28E-10 | 7.36E-09 |
| 2842 | 256393.43 | 4085484.69 | 4.62E-09 | 6.18E-08 | 9.14E-09 | 9.14E-09 | 5.09E-09 | 8.97E-08 | 7.02E-10 | 9.41E-09 | 1.43E-09 | 1.43E-09 | 7.84E-10 | 1.37E-08 | 3.81E-10 | 5.09E-09 | 6.35E-10 | 6.35E-10 | 5.14E-10 | 7.06E-09 |
| 2845 | 256563.48 | 4085483.08 | 4.46E-09 | 5.95E-08 | 8.81E-09 | 8.81E-09 | 4.91E-09 | 8.65E-08 | 6.76E-10 | 9.07E-09 | 1.37E-09 | 1.37E-09 | 7.56E-10 | 1.32E-08 | 3.67E-10 | 4.91E-09 | 8.12E-10 | 6.12E-10 | 3.03E-10 | 6.80E-09 |
| 2844 | 256573.52 | 4085441.47 | 4.32E-09 | 5.76E-08 | 8.53E-09 | 8.55E-09 | 4.75E-09 | 8.38E-08 | 6.55E-10 | 8.78E-09 | 1.33E-09 | 1.33E-09 | 7.32E-10 | 1.28E-08 | 3.56E-10 | 4.75E-09 | 5.92E-10 | 5.92E-10 | 2.93E-10 | 6.58E-09 |
| 2845 | 256365.57 | 4085419.85 | 4.20E-09 | 5.60E-08 | 8.29E-09 | 8.29E-09 | 4.62E-09 | 8.14E-08 | 6.57E-10 | 8.54E-09 | 1.29E-09 | 1.29E-09 | 7.12E-10 | 1.25E-08 | 3.46E-10 | 4.62E-09 | 5.76E-10 | 5.76E-10 | 2.85E-10 | 6.40E-09 |
| 2846 | 256353.62 | 4085398.24 | 4.09E-09 | 5.46E-08 | 8.08E-09 | 8.08E-09 | 4.51E-09 | 7.94E-08 | 6.21E-10 | 8.32E-09 | 1.26E-09 | 1.26E-09 | 6.94E-10 | 1.22E-08 | 3.37E-10 | 4.50E-09 | 5.62E-10 | 5.62E-10 | 2.78E-10 | 6.24E-09 |
| 2847 | 256345.67 | 4085376.63 | 5.99E-09 | 5.34E-08 | 7.89E-09 | 7.89E-09 | 4.40E-09 | 7.75E-08 | 6.06E-10 | 8.13E-09 | 1.23E-09 | 1.25E-09 | 6.78E-10 | 1.19E-08 | 3.29E-10 | 4.40E-09 | 5.48E-10 | 5.48E-10 | 2.71E-10 | 6.10E-09 |
| 2848 | 256335.72 | 4085355.02 | 3.90E-09 | 5.22E-08 | 7.72E-09 | 7.72E-09 | 4.30E-09 | 7.58E-08 | 5.93E-10 | 7.95E-09 | 1.20E-09 | 1.20E-09 | 6.62E-10 | 1.16E-08 | 5.27E-10 | 4.30E-09 | 5.56E-10 | 5.56E-10 | 2.63E-10 | 5.96E-09 |
| 2849 | 256325.76 | 4085333.41 | 3.82E-09 | 5.10E-08 | 7.54E-09 | 7.54E-09 | 4.21E-09 | 7.41E-08 | 5.29E-10 | 7.77E-09 | 1.18E-09 | 1.18E-09 | 6.48E-10 | 1.14E-08 | 3.15E-10 | 4.20E-09 | 5.24E-10 | 5.24E-10 | 2.59E-10 | 5.83E-09 |
| 2850 | 256315.81 | 4085311.79 | 3.73E-09 | 4.99E-08 | 7.38E-09 | 7.36E-09 | 4.11E-09 | 7.25E-08 | 5.67E-10 | 7.60E-09 | 1.15E-09 | 1.15E-09 | 6.33E-10 | 1.11E-08 | 3.08E-10 | 4.11E-09 | 5.13E-10 | 5.13E-10 | 2.54E-10 | 5.70E-09 |
| 2851 | 258103.86 | 4085290.18 | 3.65E-09 | 4.88E-08 | 7.22E-09 | 7.22E-09 | 4.03E-09 | 7.09E-08 | 5.53E-10 | 7.43E-09 | 1.13E-09 | 1.13E-09 | 6.20E-10 | 1.09E-08 | 3.01E-10 | 4.02E-09 | 5.02E-10 | 5.02E-10 | 2.48E-10 | 5.58E-09 |
| 2852 | 256295.91 | 4085268.57 | 3.58E-08 | 4.78E-08 | 7.07E-09 | 7.07E-09 | 3.94E-09 | 6.94E-08 | 5.45E-10 | 7.28E-09 | 1.10E-09 | 1.10E-09 | 6.07E-10 | 1.06E-08 | 2.95E-10 | 3.94E-09 | 4.91E-10 | 4.91E-10 | 2.43E-10 | 5.46E-09 |
| 2853 | 256285.96 | 4085246.96 | 3.51E-09 | 4.69E-08 | 6.93E-09 | 6.93E-09 | 5.87E-09 | 6.81E-08 | 5.32E-10 | 7.14E-09 | 1.08E-09 | 1.08E-09 | 5.95E-10 | 1.04E-08 | 2.89E-10 | 3.86E-09 | 4.82E-10 | 4.82E-10 | 2.38E-10 | 5.33E-09 |
| 2834 | 256274 | 4085225.55 | 3.45E-09 | 4.60E-08 | 6.81E-09 | 6.81E-09 | 3.80E-09 | 6.69E-08 | 5.23E-10 | 7.01E-08 | 1.06E-09 | 1.06E-09 | 5.85E-10 | 1.02E-08 | 2.64E-10 | 3.79E-09 | 4.73E-10 | 4.73E-10 | 2.34E-10 | 5.26E-09 |
| 2855 | 257620.68 | 4086454.33 | 6.75E-09 | 9.01E-08 | 1.33E-08 | 1.33E-08 | 7.43E-09 | 1.31E-07 | 1.02E-09 | 1.37E-08 | 2.08E-09 | 2.08E-09 | 1.14E-09 | 2.01E-08 | 5.56E-10 | 7.45E-09 | 9.26E-10 | 9.26E-10 | 4.58E-10 | 1.03E-08 |
| 2856 | 257644.96 | 4086453.25 | 6.66E-09 | 6.90E-08 | 1.32E-08 | 1.32E-08 | 7.34E-09 | 1.29E-07 | 1.01E-09 | 1.36E-08 | 2.06E-09 | 2.06E-09 | 1.13E-09 | 1.98E-08 | 5.49E-10 | 7.33E-09 | 9.14E-10 | 9.14E-10 | 4.53E-10 | 1.02E-08 |
| 2837 | 257669.24 | 4086452.18 | 6.58E-09 | 8.78E-08 | 1.30E-08 | 1.30E-08 | 7.25E-09 | 1.28E-07 | 9.98E-10 | 1.34E-08 | 2.03E-09 | 2.03E-09 | 1.12E-09 | 1.96E-08 | 5.42E-10 | 7.24E-09 | 9.05E-10 | 9.05E-10 | 4.47E-10 | 1.00E-08 |
| 2858 | 257695.53 | 4086451.1 | 6.49E-09 | 6.67E-08 | 1.28E-08 | 1.28E-08 | 7.15E-09 | 1.26E-07 | 9.85E-10 | 1.32E-08 | 2.00E-09 | 2.00E-09 | 1.10E-09 | 1.95E-08 | 5.36E-10 | 7.14E-09 | 8.91E-10 | 8.91E-10 | 4.41E-10 | 9.90E-09 |
| 2859 | 257717.81 | 4086450.02 | 6.40E-09 | 6.55E-08 | 1.26E-08 | 1.26E-08 | 7.05E-09 | 1.24E-07 | 9.71E-10 | 1.30E-08 | 1.97E-09 | 1.97E-09 | 1.09E-09 | 1.90E-08 | 5.28E-10 | 7.05E-09 | 8.29E-10 | 8.29E-10 | 4.35E-10 | 9.77E-09 |
| 2860 | 257742.09 | 4086448.95 | 6.51E-09 | 8.45E-08 | 1.25E-08 | 1.23E-08 | 6.95E-09 | 1.23E-07 | 9.58E-10 | 1.28E-08 | 1.95E-09 | 1.95E-09 | 1.07E-09 | 1.88E-08 | 5.20E-10 | 6.95E-08 | 6.66E-10 | 6.66E-10 | 4.29E-10 | 9.63E-09 |
| 2661 | 257766.37 | 4086447.87 | 6.24E-09 | 6.38E-08 | 1.23E-08 | 1.23E-08 | 6.87E-09 | 1.21E-07 | 9.46E-10 | 1.27E-08 | 1.92E-09 | 1.92E-09 | 1.06E-09 | 1.85E-08 | 5.14E-10 | 6.87E-09 | 6.56E-10 | 8.56E-10 | 4.24E-10 | 9.52E-09 |
| 2862 | 257790.65 | 4086446.8 | 8.16E-09 | 6.23E-08 | 1.22E-08 | 1.22E-08 | 6.79E-09 | 1.20E-07 | 9.35E-10 | 1.25E-08 | 1.90E-09 | 1.90E-09 | 1.05E-09 | 1.83E-08 | 5.08E-10 | 6.76E-09 | 6.46E-10 | 6.46E-10 | 4.19E-10 | 9.40E-09 |
| 2863 | 257814.94 | 4086445.77 | 6.09E-09 | 6.13E-08 | 1.20E-08 | 1.20E-08 | 6.71E-09 | 1.18E-07 | 9.24E-10 | 1.24E-08 | 1.88E-09 | 1.88E-09 | 1.03E-09 | 1.81E-08 | 5.02E-10 | 6.70E-09 | 6.36E-10 | 6.36E-10 | 4.14E-10 | 9.29E-09 |
| 2864 | 257839.22 | 4086444.65 | 6.01E-09 | 8.05E-08 | 1.19E-08 | 1.19E-08 | 6.62E-09 | 1.17E-07 | 9.12E-10 | 1.22E-08 | 1.85E-09 | 1.85E-09 | 1.02E-09 | 1.79E-08 | 4.95E-10 | 6.62E-09 | 6.25E-10 | 8.25E-10 | 4.08E-10 | 9.17E-09 |
| 2865 | 257863.5 | 4086443.57 | 5.93E-09 | 7.95E-08 | 1.17E-08 | 1.17E-08 | 6.54E-09 | 1.15E-07 | 9.01E-10 | 1.21E-08 | 1.85E-09 | 1.83E-09 | 1.01E-09 | 1.76E-08 | 4.69E-10 | 6.53E-09 | 6.15E-10 | 6.15E-10 | 4.03E-10 | 9.05E-09 |
| 2866 | 257887.78 | 4086442.5 | 5.65E-09 | 7.82E-08 | 1.16E-08 | 1.16E-08 | 6.45E-09 | 1.14E-07 | 8.88E-10 | 1.19E-08 | 1.81E-08 | 1.61E-09 | 9.93E-10 | 1.74E-08 | 4.82E-10 | 6.44E-09 | 8.03E-10 | 6.03E-10 | 5.98E-10 | 8.93E-09 |
| 2667 | 252912.06 | 4086441.42 | 5.77E-09 | 7.70E-08 | 1.14E-08 | 1.14E-08 | 6.35E-09 | 1.12E-07 | 6.75E-10 | 1.17E-08 | 1.78E-09 | 1.78E-09 | 9.78E-10 | 1.71E-08 | 4.75E-10 | 8.35E-09 | 7.92E-10 | 7.92E-10 | 3.92E-10 | 8.80E-09 |
| 2868 | 252936.34 | 4086440.35 | 5.67E-09 | 7.58E-08 | 1.12E-08 | 1.12E-08 | 6.25E-09 | 1.10E-07 | 8.61E-10 | 1.15E-08 | 1.75E-09 | 1.75E-09 | 9.62E-10 | 1.69E-08 | 4.68E-10 | 6.25E-09 | 7.79E-10 | 7.29E-10 | 3.86E-10 | 8.66E-09 |
| 2869 | 257960.63 | 4086439.27 | 5.58E-09 | 7.45E-08 | 1.10E-08 | 1.10E-08 | 6.15E-09 | 1.08E-07 | 8.46E-10 | 1.15E-08 | 1.72E-09 | 1.72E-09 | 9.45E-10 | 1.66E-08 | 4.60E-10 | 8.14E-09 | 7.66E-10 | 7.66E-10 | 3.79E-10 | 8.51E-09 |
| 2870 | 257984.91 | 4086438.19 | 5.48E-09 | 7.51E-08 | 1.08E-08 | 1.08E-08 | 6.03E-09 | 1.06E-07 | 6.51E-10 | 1.11E-08 | 1.69E-09 | 1.69E-09 | 9.29E-10 | 1.63E-08 | 4.51E-10 | 6.03E-09 | 7.52E-10 | 7.52E-10 | 3.77E-10 | 8.35E-09 |
| 2871 | 258009.19 | 4086457.12 | 5.37E-09 | 7.17E-08 | 1.06E-08 | 1.06E-08 | 5.91E-09 | 1.04E-07 | 6.15E-10 | 1.09E-08 | 1.66E-09 | 1.66E-09 | 9.11E-10 | 1.60E-08 | 4.42E-10 | 5.91E-09 | 7.57E-10 | 7.57E-10 | 5.65E-10 | 8.19E-09 |
| 2872 | 258055.47 | 4086436.04 | 5.26E-09 | 7.03E-08 | 1.04E-08 | 1.04E-08 | 5.79E-09 | 1.02E-07 | 7.96E-10 | 1.07E-08 | 1.62E-09 | 1.62E-09 | 8.92E-10 | 1.56E-08 | 4.34E-10 | 5.79E-09 | 7.22E-10 | 7.22E-10 | 5.57E-10 | 8.03E-09 |
| 2672 | 258057.75 | 4086434.97 | 5.15E-09 | 6.88E-08 | 1.02E-08 | 1.02E-08 | 5.68E-09 | 1.00E-07 | 7.82E-10 | 1.05E-08 | 1.59E-09 | 1.59E-09 | 8.74E-10 | 1.53E-08 | 4.25E-10 | 5.67E-09 | 7.07E-10 | 7.07E-10 | 3.50E-10 | 7.86E-09 |
| 2874 | 258082.04 | 4086453.89 | 5.04E-09 | 6.74E-08 | 9.97E-09 | 9.97E-09 | 5.56E-09 | 9.79E-08 | 7.65E-10 | 1.03E-08 | 1.56E-09 | 1.58E-09 | 8.55E-10 | 1.50E-08 | 4.16E-10 | 5.55E-09 | 6.92E-10 | 6.92E-10 | 3.45E-10 | 7.70E-09 |
| 2875 | 258106.52 | 4086432.82 | 4.94E-09 | 6.60E-08 | 9.76E-09 | 9.76E-09 | 5.44E-09 | 9.58E-08 | 7.49E-10 | 1.00E-08 | 1.52E-09 | 1.52E-09 | 8.38E-10 | 1.47E-08 | 4.07E-10 | 5.44E-09 | 6.78E-10 | 6.78E-10 | 3.36E-10 | 7.53E-09 |
| 2876 | 258110.6 | 4086431.74 | 4.84E-09 | 6.46E-08 | 9.56E-09 | 9.56E-09 | 5.33E-09 | 9.39E-08 | 7.34E-10 | 9.85E-09 | 1.49E-09 | 1.49E-09 | 8.21E-10 | 1.44E-08 | 3.99E-10 | 5.33E-09 | 6.64E-10 | 6.64E-10 | 3.29E-10 | 7.38E-09 |
| 2877 | 258134.88 | 4086430.67 | 4.75E-09 | 6.34E-08 | 9.38E-09 | 9.58E-09 | 5.23E-09 | 9.21E-08 | 7.20E-10 | 9.66E-09 | 1.46E-09 | 1.46E-09 | 8.05E-10 | 1.41E-08 | 3.91E-10 | 5.23E-09 | 6.51E-10 | 6.51E-10 | 3.22E-10 | 7.24E-09 |
| 2878 | 258179.16 | 4086429.59 | 4.66E-09 | 6.22E-08 | 9.21E-09 | 9.21E-09 | 5.15E-09 | 9.04E-08 | 7.07E-10 | 9.48E-09 | 1.44E-09 | 1.44E-09 | 7.90E-10 | 1.59E-08 | 3.84E-10 | 5.13E-09 | 6.40E-10 | 6.40E-10 | 3.17E-10 | 7.11E-09 |
| 2879 | 258205.44 | 4086428.52 | 4.58E-09 | 6.11E-08 | 9.04E-09 | 9.04E-09 | 5.04E-09 | 8.88E-08 | 6.95E-10 | 9.51E-09 | 1.41E-09 | 1.41E-09 | 7.76E-10 | 1.36E-08 | 3.77E-10 | 5.04E-09 | 6.26E-10 | 6.28E-10 | 3.11E-10 | 6.98E-09 |
| 2880 | 258227.72 | 4086427.44 | 4.60E-09 | 6.01E-08 | 8.89E-09 | 8.89E-09 | 4.96E-09 | 8.73E-08 | 6.83E-10 | 9.16E-09 | 1.39E-09 | 1.39E-09 | 7.63E-10 | 1.34E-08 | 5.71E-10 | 4.95E-09 | 6.16E-10 | 6.18E-10 | 3.06E-10 | 6.87E-09 |
| 2881 | 258252.01 | 4086426.36 | 4.42E-09 | 5.91E-08 | 8.74E-09 | 6.74E-09 | 4.86E-09 | 8.59E-08 | 6.72E-10 | 9.00E-09 | 1.37E-09 | 1.37E-09 | 7.51E-10 | 1.32E-08 | 5.65E-10 | 4.87E-09 | 6.07E-10 | 6.07E-10 | 5.01E-10 | 6.75E-09 |
| 2882 | 258276.29 | 4086425.29 | 4.35E-09 | 5.61E-08 | 8.59E-09 | 8.59E-09 | 4.29E-09 | 8.44E-08 | 6.60E-10 | 8.85E-09 | 1.34E-09 | 1.34E-09 | 7.38E-10 | 1.29E-08 | 3.58E-10 | 4.79E-09 | 5.97E-10 | 5.97E-10 | 2.96E-10 | 6.64E-09 |
| 2883 | 258300.57 | 4086424.21 | 4.27E-09 | 5.71E-08 | 8.44E-08 | 8.44E-09 | 4.71E-09 | 8.29E-08 | 8.48E-10 | 8.69E-09 | 1.32E-09 | 1.32E-09 | 7.25E-10 | 1.27E-08 | 3.52E-10 | 4.70E-09 | 5.86E-10 | 5.86E-10 | 2.90E-10 | 6.52E-09 |
| 2884 | 258324.85 | 4086423.14 | 4.19E-09 | 5.60E-08 | 8.29E-09 | 8.29E-09 | 4.62E-09 | 6.14E-08 | 8.36E-10 | 8.53E-09 | 1.29E-09 | 1.29E-09 | 7.11E-10 | 1.23E-08 | 5.46E-10 | 4.62E-09 | 5.76E-10 | 5.76E-10 | 2.85E-10 | 8.40E-09 |
| 2885 | 258349.14 | 4086422.06 | 4.11E-09 | 5.49E-08 | 8.15E-09 | 8.13E-09 | 4.53E-09 | 7.98E-08 | 6.24E-10 | 8.37E-09 | 1.27E-09 | 1.27E-09 | 6.98E-10 | 1.27E-08 | 3.39E-10 | 4.53E-09 | 5.63E-10 | 5.65E-10 | 2.79E-10 | 6.28E-09 |
| 2886 | 258373.42 | 4086420.99 | 4.03E-09 | 5.38E-08 | 7.96E-09 | 7.96E-09 | 4.44E-09 | 7.82E-08 | 6.12E-10 | 8.20E-09 | 1.24E-09 | 1.24E-09 | 6.84E-10 | 1.20E-08 | 3.32E-10 | 4.44E-09 | 5.53E-10 | 5.53E-10 | 2.74E-10 | 6.13E-09 |
| 2887 | 258397.7 | 4086419.91 | 3.95E-09 | 5.27E-08 | 7.80E-09 | 7.80E-09 | 4.35E-09 | 7.66E-08 | 5.99E-10 | 8.03E-09 | 1.22E-09 | 1.22E-09 | 6.70E-10 | 1.17E-08 | 3.25E-10 | 4.35E-09 | 5.42E-10 | 5.42E-10 | 2.68E-10 | 6.02E-09 |
| 2888 | 258421.98 | 4086418.84 | 3.87E-09 | 5.16E-08 | 7.64E-09 | 7.64E-09 | 4.26E-09 | 7.50E-08 | 5.87E-10 | 7.87E-09 | 1.19E-09 | 1.19E-09 | 6.58E-10 | 1.15E-08 | 3.19E-10 | 4.25E-09 | 5.31E-10 | 5.31E-10 | 2.63E-10 | 5.90E-09 |
| 2889 | 257606.97 | 4086645.89 | 5.49E-09 | 7.34E-08 | 1.09E-08 | 1.09E-08 | 6.05E-09 | 1.07E-07 | 6.34E-10 | 1.12E-08 | 1.69E-09 | 1.69E-09 | 9.32E-10 | 1.63E-08 | 4.53E-10 | 6.05E-09 | 7.54E-10 | 7.34E-10 | 3.73E-10 | 8.58E-09 |
| 2890 | 257584.4 | 4086637.65 | 5.60E-09 | 7.47E-08 | 1.11E-08 | 1.11E-08 | 6.17E-09 | 1.09E-07 | 6.49E-10 | 1.14E-08 | 1.73E-09 | 1.73E-09 | 9.49E-10 | 1.66E-08 | 4.61E-10 | 6.16E-09 | 7.68E-10 | 7.68E-10 | 3.80E-10 | 8.34E-09 |
| 2891 | 257561.84 | 4086629.4 | 5.71E-09 | 7.62E-08 | 1.13E-08 | 1.13E-08 | 6.29E-09 | 1.11E-07 | 6.66E-10 | 1.16E-08 | 1.76E-09 | 1.76E-09 | 9.68E-10 | 1.70E-08 | 4.70E-10 | 6.26E-09 | 7.83E-10 | 7.63E-10 | 5.88E-10 | 8.71E-09 |
| 2892 | 257539.28 | 4086621.16 | 5.82E-09 | 7.77E-08 | 1.15E-08 | 1.15E-08 | 6.41E-09 | 1.13E-07 | 8.83E-10 | 1.18E-08 | 1.79E-09 | 1.79E-09 | 9.87E-10 | 1.73E-08 | 4.80E-10 | 6.41E-09 | 7.99E-10 | 7.99E-10 | 3.95E-10 | 8.88E-09 |
| 2893 | 257516.71 | 4085612.92 | 5.93E-09 | 7.93E-08 | 1.17E-08 | 1.17E-08 | 6.54E-09 | 1.15E-07 | 9.01E-10 | 1.21E-08 | 1.83E-09 | 1.83E-09 | 1.01E-09 | 1.76E-08 | 4.89E-10 | 6.53E-09 | 8.13E-10 | 6.15E-10 | 4.03E-10 | 9.05E-09 |
| 2894 | 257494.15 | 4086604.68 | 6.05E-09 | 8.08E-08 | 1.20E-08 | 1.20E-08 | 6.67E-09 | 1.17E-07 | 9.18E-10 | 1.23E-08 | 1.87E-09 | 1.87E-09 | 1.03E-09 | 1.80E-08 | 4.99E-10 | 6.66E-09 | 8.31E-10 | 8.31E-10 | 4.11E-10 | 9.23E-09 |
| 2895 | 257471.59 | 4086596.43 | 6.17E-09 | 8.24E-08 | 1.22E-08 | 1.22E-08 | 6.80E-09 | 1.20E-07 | 9.38E-10 | 1.26E-08 | 1.90E-09 | 1.90E-09 | 1.05E-09 | 1.83E-08 | 5.08E-10 | 8.79E-09 | 8.47E-10 | 6.47E-10 | 4.19E-10 | 9.41E-09 |
| 2896 | 257449.02 | 4086588.19 | 6.29E-09 | 8.40E-08 | 1.24E-08 | 1.24E-08 | 6.92E-09 | 1.22E-07 | 9.54E-10 | 1.28E-08 | 1.94E-09 | 1.94E-09 | 1.07E-09 | 1.87E-08 | 5.18E-10 | 8.92E-09 | 8.65E-10 | 6.65E-10 | 4.27E-10 | 9.59E-09 |
| 2897 | 257426.46 | 4086529.95 | 6.40E-09 | 6.54E-08 | 1.26E-08 | 1.26E-08 | 7.05E-09 | 1.24E-07 | 9.71E-10 | 1.10E-08 | 1.97E-09 | 1.97E-09 | 1.09E-09 | 1.90E-08 | 5.27E-10 | 7.04E-09 | 8.78E-10 | 6.78E-10 | 4.35E-10 | 9.76E-09 |
| 2898 | 257403.89 | 4086571.7 | 6.50E-09 | 8.69E-08 | 1.29E-08 | 1.29E-08 | 7.17E-09 | 1.26E-07 | 9.87E-10 | 1.32E-08 | 2.01E-09 | 2.01E-09 | 1.10E-09 | 1.93E-08 | 5.56E-10 | 7.16E-09 | 8.95E-10 | 6.95E-10 | 4.42E-10 | 9.92E-08 |
| 2899 | 257381.33 | 4086563.46 | 6.60E-09 | 8.82E-08 | 1.31E-08 | 1.31E-08 | 7.28E-09 | 1.28E-07 | 1.00E-09 | 1.34E-08 | 2.04E-09 | 2.04E-09 | 1.12E-09 | 1.96E-08 | 5.44E-10 | 7.27E-09 | 9.07E-10 | 9.07E-10 | 4.49E-10 | 1.01E-08 |
| 2900 | 257358.77 | 4086555.22 | 6.70E-09 | 8.94E-08 | 1.32E-08 | 1.32E-08 | 7.38E-09 | 1.30E-07 | 1.02E-09 | 1.36E-08 | 2.07E-09 | 2.07E-09 | 1.14E-09 | 1.99E-08 | 5.52E-10 | 7.37E-09 | 9.19E-10 | 9.19E-10 | 4.55E-10 | 1.02E-08 |
| 2901 | 257336.2 | 4086546.98 | 6.78E-09 | 9.06E-08 | 1.34E-08 | 1.34E-08 | 7.47E-09 | 1.32E-07 | 1.03E-09 | 1.38E-08 | 2.09E-09 | 2.09E-09 | 1.15E-09 | 2.02E-08 | 5.59E-10 | 7.47E-09 | 9.31E-10 | 9.31E-10 | 4.81E-10 | 1.05E-08 |
| 2902 | 257313.64 | 4086538.73 | 6.86E-09 | 9.16E-08 | 1.36E-08 | 1.36E-08 | 7.56E-09 | 1.33E-07 | 1.04E-09 | 1.40E-08 | 2.12E-09 | 2.12E-09 | 1.16E-09 | 2.04E-08 | 5.65E-10 | 7.55E-09 | 9.42E-10 | 9.42E-10 | 4.66E-10 | 1.05E-08 |
| 2903 | 257291.08 | 4086530.49 | 6.93E-09 | 9.26E-08 | 1.57E-08 | 1.37E-08 | 7.64E-09 | 1.33E-07 | 1.05E-09 | 1.41E-08 | 2.14E-09 | 2.14E-09 | 1.18E-08 | 2.06E-08 | 5.71E-10 | 7.63E-09 | 9.52E-10 | 9.52E-10 | 4.71E-10 | 1.06E-08 |
| 2904 | 257268.51 | 4086522.25 | 7.00E-09 | 9.35E-08 | 1.36E-08 | 1.38E-08 | 7.71E-09 | 1.36E-07 | 1.06E-09 | 1.42E-08 | 2.16E-09 | 2.16E-09 | 1.19E-09 | 2.08E-08 | 5.77E-10 | 7.71E-09 | 9.61E-10 | 9.61E-10 | 4.76E-10 | 1.07E-08 |
| 2905 | 257245.95 | 4086514.01 | 7.07E-09 | 9.45E-08 | 1.40E-08 | 1.40E-08 | 7.79E-09 | 1.37E-07 | 1.07E-09 | 1.44E-08 | 2.18E-09 | 2.18E-09 | 1.20E-09 | 2.10E-08 | 5.83E-10 | 7.29E-09 | 9.71E-10 | 9.71E-10 | 4.81E-10 | 1.08E-08 |
| 2906 | 257225.39 | 4086505.76 | 7.15E-09 | 9.53E-08 | 1.41E-08 | 1.41E-08 | 7.88E-09 | 1.39E-07 | 1.09E-09 | 1.46E-08 | 2.21E-09 | 2.21E-09 | 1.21E-09 | 2.13E-08 | 5.90E-10 | 7.88E-09 | 9.82E-10 | 9.82E-10 | 4.86E-10 | 1.09E-08 |
| 2907 | 257200.82 | 4086497.52 | 7.22E-09 | 9.65E-08 | 1.45E-08 | 1.43E-08 | 7.96E-09 | 1.40E-07 | 1.10E-09 | 1.47E-08 | 2.23E-09 | 2.23E-09 | 1.23E-09 | 2.15E-08 | 5.95E-10 | 7.95E-09 | 9.92E-10 | 9.92E-10 | 4.91E-10 | 1.10E-08 |
| 2908 | 257178.26 | 4086489.28 | 7.29E-09 | 9.74E-08 | 1.44E-08 | 1.44E-08 | 8.03E-09 | 1.42E-07 | 1.11E-09 | 1.48E-08 | 2.25E-09 | 2.23E-09 | 1.24E-09 | 2.17E-08 | 6.01E-10 | 8.03E-09 | 1.00E-09 | 1.00E-09 | 4.96E-10 | 1.11E-08 |
| 2909 | 257155.7 | 4086481.04 | 7.36E-09 | 9.83E-08 | 1.45E-08 | 1.45E-08 | 8.11E-09 | 1.43E-07 | 1.12E-09 | 1.50E-08 | 2.27E-09 | 2.27E-09 | 1.23E-09 | 2.19E-08 | 6.07E-10 | 8.11E-09 | 1.01E-09 | 1.01E-09 | 5.00E-10 | 1.12E-08 |
| 2910 | 257155.15 | 4086472.79 | 7.43E-09 | 9.92E-08 | 1.47E-08 | 1.47E-08 | 6.19E-09 | 1.44E-07 | 1.15E-09 | 1.51E-08 | 2.29E-09 | 2.29E-09 | 1.26E-09 | 2.21E-08 | 6.12E-10 | 8.18E-09 | 1.02E-09 | 1.02E-09 | 5.05E-10 | 1.13E-08 |
| 2911 | 257110.57 | 4086464.55 | 7.50E-09 | 1.00E-07 | 1.48E-08 | 1.48E-08 | 8.26E-09 | 1.46E-07 | 1.14E-09 | 1.53E-08 | 2.31E-09 | 2.31E-09 | 1.27E-09 | 2.23E-08 | 6.18E-10 | 8.26E-09 | 1.03E-09 | 1.03E-09 | 5.09E-10 | 1.14E-08 |
| 2912 | 257088 | 4086456.31 | 7.56E-09 | 1.01E-07 | 1.49E-08 | 1.49E-08 | 8.33E-09 | 1.47E-07 | 1.15E-09 | 1.54E-08 | 2.33E-09 | 2.35E-09 | 1.28E-09 | 2.25E-08 | 6.24E-10 | 8.33E-09 | 1.04E-09 | 1.04E-09 | 5.14E-10 | 1.15E-08 |
| 2913 | 257065.44 | 4086448.07 | 7.63E-09 | 1.02E-07 | 1.51E-08 | 1.51E-08 | 6.40E-09 | 1.48E-07 | 1.16E-09 | 1.55E-08 | 2.35E-09 | 2.35E-09 | 1.29E-09 | 2.27E-08 | 6.29E-10 | 8.40E-09 | 1.05E-09 | 1.05E-09 | 5.18E-10 | 1.16E-08 |
| 2914 | 257042.88 | 4086439.82 | 7.68E-09 | 1.03E-07 | 1.52E-08 | 1.52E-08 | 6.47E-09 | 1.49E-07 | 1.17E-09 | 1.56E-08 | 2.37E-09 | 2.37E-09 | 1.30E-09 | 2.28E-08 | 6.33E-10 | 8.46E-09 | 1.05E-09 | 1.05E-09 | 5.22E-10 | 1.17E-08 |
| 2915 | 257020.31 | 4086431.58 | 7.73E-09 | 1.03E-07 | 1.55E-08 | 1.53E-08

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2711 | 256746.86 | 4085810.77 | 1.22E-08 | 1.83E-07 | 2.41E-08 | 2.41E-08 | 1.34E-08 | 2.36E-07 | 1.85E-09 | 2.48E-08 | 3.76E-09 | 3.76E-09 | 2.07E-09 | 3.82E-08 | 1.00E-09 | 1.34E-08 | 1.67E-09 | 1.67E-09 | 8.26E-10 | 1.86E-08 |
| 2712 | 136736.79 | 4085768.83 | 1.21E-08 | 1.62E-07 | 2.39E-08 | 2.39E-08 | 1.34E-08 | 2.35E-07 | 1.84E-09 | 2.47E-08 | 3.74E-09 | 3.74E-09 | 2.06E-09 | 3.60E-08 | 9.99E-10 | 1.33E-08 | 1.66E-09 | 1.86E-09 | 8.23E-10 | 1.65E-08 |
| 2713 | 256726.65 | 4085766.88 | 1.20E-08 | 1.60E-07 | 2.37E-08 | 2.37E-08 | 1.32E-08 | 2.33E-07 | 1.82E-09 | 2.44E-08 | 3.70E-09 | 3.70E-09 | 2.03E-09 | 3.57E-08 | 9.89E-10 | 1.32E-08 | 1.65E-09 | 1.65E-09 | 8.15E-10 | 1.63E-08 |
| 2714 | 256716.54 | 4085744.94 | 1.18E-08 | 1.58E-07 | 2.33E-08 | 2.33E-08 | 1.50E-08 | 2.29E-07 | 1.79E-09 | 2.40E-08 | 3.64E-09 | 3.64E-09 | 2.00E-09 | 3.51E-08 | 9.73E-10 | 1.30E-08 | 1.82E-09 | 1.62E-09 | 8.02E-10 | 1.80E-08 |
| 2715 | 256706.44 | 4085722.99 | 1.18E-08 | 1.54E-07 | 2.28E-08 | 2.26E-08 | 1.27E-08 | 2.24E-07 | 1.75E-09 | 2.35E-08 | 3.57E-09 | 3.57E-09 | 1.96E-09 | 3.44E-08 | 9.53E-10 | 1.27E-08 | 1.59E-09 | 1.59E-09 | 7.86E-10 | 1.76E-08 |
| 2716 | 256696.33 | 4085701.05 | 1.13E-08 | 1.51E-07 | 2.23E-08 | 2.23E-08 | 1.24E-08 | 2.19E-07 | 1.71E-09 | 2.29E-08 | 3.48E-09 | 3.48E-09 | 1.91E-09 | 3.35E-08 | 9.29E-10 | 1.24E-08 | 1.55E-09 | 1.55E-09 | 7.66E-10 | 1.72E-08 |
| 2717 | 256686.23 | 4085679.11 | 1.09E-08 | 1.46E-07 | 2.16E-08 | 2.16E-08 | 1.20E-08 | 2.12E-07 | 1.66E-09 | 2.22E-08 | 3.37E-09 | 3.37E-09 | 1.85E-09 | 3.24E-08 | 6.99E-10 | 1.20E-08 | 1.50E-09 | 1.50E-09 | 7.41E-10 | 1.66E-08 |
| 2718 | 256676.12 | 4085657.18 | 1.05E-08 | 1.40E-07 | 2.07E-08 | 2.07E-08 | 1.16E-08 | 2.04E-07 | 1.59E-09 | 2.13E-08 | 3.24E-09 | 3.24E-09 | 1.78E-09 | 3.12E-08 | 8.64E-10 | 1.13E-08 | 1.44E-09 | 1.44E-09 | 7.13E-10 | 1.60E-08 |
| 2719 | 256666.02 | 4085635.22 | 1.00E-08 | 1.34E-07 | 1.98E-08 | 1.98E-08 | 1.10E-08 | 1.95E-07 | 1.52E-09 | 2.04E-08 | 3.09E-09 | 3.09E-09 | 1.70E-09 | 2.98E-08 | 8.26E-10 | 1.10E-08 | 1.38E-09 | 1.38E-09 | 6.81E-10 | 1.55E-08 |
| 2720 | 256655.91 | 4085813.27 | 9.52E-09 | 1.27E-07 | 1.88E-08 | 1.68E-08 | 1.05E-08 | 1.85E-07 | 1.44E-09 | 1.94E-08 | 2.94E-09 | 2.94E-09 | 1.61E-09 | 2.83E-08 | 7.85E-10 | 1.05E-08 | 1.31E-09 | 1.31E-09 | 6.47E-10 | 1.45E-08 |
| 2721 | 256645.81 | 4085591.33 | 6.99E-09 | 1.20E-07 | 1.78E-08 | 1.78E-08 | 9.91E-09 | 1.75E-07 | 1.36E-09 | 1.83E-08 | 2.72E-09 | 2.77E-09 | 1.33E-09 | 2.67E-08 | 7.41E-10 | 9.90E-09 | 1.23E-09 | 1.23E-09 | 6.11E-10 | 1.37E-08 |
| 2722 | 256635.7 | 4085569.38 | 6.45E-09 | 1.15E-07 | 1.67E-08 | 1.87E-08 | 9.31E-09 | 1.64E-07 | 1.26E-09 | 1.72E-08 | 2.61E-09 | 2.61E-09 | 1.43E-09 | 2.51E-08 | 6.97E-10 | 9.31E-09 | 1.16E-09 | 1.16E-09 | 5.74E-10 | 1.29E-08 |
| 2723 | 256625.6 | 4085547.44 | 7.92E-09 | 1.06E-07 | 1.57E-08 | 1.57E-08 | 8.73E-09 | 1.54E-07 | 1.20E-09 | 1.61E-08 | 2.44E-09 | 2.44E-09 | 1.34E-09 | 2.36E-08 | 6.53E-10 | 8.72E-09 | 1.09E-09 | 1.09E-09 | 5.38E-10 | 1.21E-08 |
| 2724 | 136615.49 | 4085525.5 | 7.41E-09 | 9.90E-08 | 1.46E-08 | 1.46E-08 | 8.16E-09 | 1.44E-07 | 1.12E-09 | 1.51E-08 | 2.29E-09 | 2.29E-09 | 1.26E-09 | 2.20E-08 | 6.11E-10 | 8.16E-09 | 1.02E-09 | 1.02E-09 | 5.04E-10 | 1.13E-08 |
| 2725 | 256605.39 | 4085503.55 | 6.95E-09 | 9.26E-08 | 1.37E-08 | 1.37E-08 | 7.64E-09 | 1.35E-07 | 1.05E-09 | 1.41E-08 | 2.14E-09 | 2.14E-09 | 1.18E-09 | 2.06E-08 | 5.72E-10 | 7.63E-09 | 9.32E-10 | 9.32E-10 | 4.71E-10 | 1.06E-08 |
| 2776 | 256595.26 | 4085481.81 | 6.50E-09 | 6.69E-08 | 1.29E-08 | 1.79E-08 | 7.17E-09 | 1.26E-07 | 9.87E-10 | 1.32E-08 | 2.01E-09 | 2.01E-09 | 1.10E-09 | 1.93E-08 | 5.36E-10 | 7.16E-09 | 8.93E-10 | 8.93E-10 | 4.42E-10 | 9.92E-09 |
| 2727 | 256585.18 | 4085459.68 | 6.12E-09 | 8.16E-08 | 1.21E-08 | 1.21E-08 | 6.75E-09 | 1.19E-07 | 9.29E-10 | 1.25E-08 | 1.89E-09 | 1.89E-09 | 1.04E-09 | 1.82E-08 | 5.05E-10 | 6.74E-09 | 8.41E-10 | 8.41E-10 | 4.16E-10 | 9.35E-09 |
| 2726 | 256575.07 | 4085437.77 | 5.80E-09 | 7.75E-08 | 1.15E-08 | 1.15E-08 | 6.39E-09 | 1.13E-07 | 8.80E-10 | 1.18E-08 | 1.79E-09 | 1.79E-09 | 9.84E-10 | 1.72E-08 | 4.78E-10 | 6.38E-09 | 7.96E-10 | 7.96E-10 | 3.94E-10 | 8.85E-09 |
| 2729 | 256564.97 | 4085413.72 | 5.52E-09 | 7.38E-08 | 1.09E-08 | 1.09E-08 | 6.09E-09 | 1.07E-07 | 6.38E-10 | 1.12E-08 | 1.70E-09 | 1.70E-09 | 9.37E-10 | 1.64E-08 | 4.55E-10 | 6.08E-09 | 7.58E-10 | 7.58E-10 | 3.75E-10 | 8.45E-09 |
| 2730 | 256534.86 | 4085393.83 | 5.30E-09 | 7.07E-08 | 1.05E-08 | 1.05E-08 | 5.83E-09 | 1.03E-07 | 8.04E-10 | 1.08E-08 | 1.63E-09 | 1.63E-09 | 8.98E-10 | 1.57E-08 | 4.36E-10 | 5.83E-09 | 7.27E-10 | 7.27E-10 | 3.60E-10 | 8.08E-09 |
| 2731 | 256544.76 | 4085371.88 | 5.10E-09 | 6.81E-08 | 1.01E-08 | 1.01E-08 | 5.62E-09 | 9.90E-08 | 7.74E-10 | 1.04E-08 | 1.57E-09 | 1.57E-09 | 6.65E-10 | 1.52E-08 | 4.21E-10 | 5.62E-09 | 7.00E-10 | 7.00E-10 | 3.47E-10 | 7.79E-09 |
| 2732 | 256534.85 | 4085349.94 | 4.93E-09 | 6.59E-08 | 9.75E-09 | 9.75E-09 | 5.44E-09 | 9.58E-08 | 7.49E-10 | 1.00E-08 | 1.52E-09 | 1.52E-09 | 8.37E-10 | 1.47E-08 | 4.07E-10 | 5.43E-09 | 8.77E-10 | 6.77E-10 | 3.35E-10 | 7.55E-09 |
| 2733 | 256524.54 | 4085328 | 4.79E-09 | 6.39E-08 | 9.46E-09 | 9.46E-09 | 5.27E-09 | 9.29E-08 | 7.27E-10 | 9.74E-09 | 1.48E-09 | 1.48E-09 | 8.12E-10 | 1.42E-08 | 3.95E-10 | 5.27E-09 | 6.57E-10 | 6.57E-10 | 3.25E-10 | 7.31E-09 |
| 2734 | 256514.44 | 4085306.05 | 4.65E-09 | 6.22E-08 | 9.20E-09 | 9.20E-09 | 5.13E-09 | 9.03E-08 | 7.08E-10 | 9.47E-09 | 1.44E-09 | 1.44E-09 | 7.90E-10 | 1.38E-08 | 3.84E-10 | 5.12E-09 | 8.39E-10 | 6.39E-10 | 3.16E-10 | 7.10E-09 |
| 2735 | 256504.33 | 4085284.11 | 4.53E-09 | 6.05E-08 | 8.95E-09 | 8.95E-09 | 4.99E-09 | 8.79E-08 | 8.67E-10 | 9.22E-09 | 1.40E-09 | 1.40E-09 | 7.68E-10 | 1.35E-08 | 3.73E-10 | 4.99E-09 | 6.22E-10 | 6.22E-10 | 3.08E-10 | 8.91E-09 |
| 2736 | 256494.23 | 4085262.16 | 4.41E-09 | 5.90E-08 | 8.72E-09 | 8.72E-09 | 4.86E-09 | 8.57E-08 | 6.70E-10 | 6.98E-09 | 1.36E-09 | 1.36E-09 | 7.49E-10 | 1.31E-08 | 3.64E-10 | 4.86E-09 | 8.08E-10 | 6.06E-10 | 3.00E-10 | 8.74E-09 |
| 2737 | 256484.12 | 4085240.22 | 4.31E-09 | 5.75E-08 | 8.55E-09 | 8.51E-09 | 4.75E-09 | 8.56E-08 | 6.54E-10 | 6.76E-09 | 1.33E-09 | 1.33E-09 | 7.31E-10 | 1.28E-08 | 3.55E-10 | 4.74E-09 | 5.91E-10 | 5.91E-10 | 2.93E-10 | 6.57E-09 |
| 2738 | 256474.02 | 4085218.27 | 4.21E-09 | 5.63E-08 | 8.33E-09 | 8.53E-09 | 4.64E-09 | 8.18E-08 | 6.39E-10 | 8.57E-09 | 1.30E-09 | 1.50E-09 | 7.15E-10 | 1.25E-08 | 3.47E-10 | 4.64E-09 | 5.78E-10 | 5.78E-10 | 2.86E-10 | 6.43E-09 |
| 2739 | 257611.83 | 4086254.52 | 8.85E-09 | 1.16E-07 | 1.75E-08 | 1.75E-08 | 9.75E-09 | 1.72E-07 | 1.34E-09 | 1.80E-08 | 2.73E-09 | 2.73E-09 | 1.50E-09 | 2.63E-08 | 7.29E-10 | 9.74E-09 | 1.21E-09 | 1.21E-09 | 6.01E-10 | 1.35E-09 |
| 2740 | 257636.11 | 4086253.45 | 8.75E-09 | 1.17E-07 | 1.73E-08 | 1.73E-08 | 9.64E-09 | 1.70E-07 | 1.33E-09 | 1.78E-08 | 2.70E-09 | 2.70E-09 | 1.48E-09 | 2.60E-08 | 7.21E-10 | 9.63E-09 | 1.20E-09 | 1.20E-09 | 5.95E-10 | 1.34E-08 |
| 2741 | 257660.4 | 4086252.37 | 6.64E-09 | 1.15E-07 | 1.71E-08 | 1.71E-08 | 9.52E-09 | 1.68E-07 | 1.31E-09 | 1.76E-08 | 2.67E-09 | 2.67E-09 | 1.47E-09 | 2.37E-08 | 7.12E-10 | 9.31E-09 | 1.19E-09 | 1.19E-09 | 5.87E-10 | 1.32E-08 |
| 2742 | 257684.68 | 4086251.3 | 8.52E-09 | 1.14E-07 | 1.68E-08 | 1.68E-08 | 9.39E-09 | 1.85E-07 | 1.29E-09 | 1.73E-08 | 2.63E-09 | 2.63E-09 | 1.45E-09 | 2.53E-08 | 7.02E-10 | 9.38E-09 | 1.17E-09 | 1.17E-09 | 5.79E-10 | 1.30E-08 |
| 2743 | 257708.96 | 4086250.22 | 6.39E-09 | 1.12E-07 | 1.66E-08 | 1.66E-08 | 9.25E-09 | 1.83E-07 | 1.27E-09 | 1.71E-08 | 2.59E-09 | 2.59E-09 | 1.42E-09 | 2.50E-08 | 6.92E-10 | 9.24E-09 | 1.15E-09 | 1.15E-09 | 5.70E-10 | 1.28E-08 |
| 2744 | 257733.24 | 4086249.15 | 8.26E-09 | 1.10E-07 | 1.63E-08 | 1.63E-08 | 9.10E-09 | 1.60E-07 | 1.25E-09 | 1.68E-08 | 2.35E-09 | 2.55E-09 | 1.40E-09 | 2.46E-08 | 6.81E-10 | 9.09E-09 | 1.13E-09 | 1.13E-09 | 5.61E-10 | 1.26E-08 |
| 2745 | 257257.52 | 4086248.07 | 8.12E-09 | 1.09E-07 | 1.61E-08 | 1.81E-08 | 8.95E-09 | 1.58E-07 | 1.23E-09 | 1.85E-08 | 2.51E-09 | 2.51E-09 | 1.38E-09 | 2.42E-08 | 6.70E-10 | 8.94E-09 | 1.12E-09 | 1.12E-09 | 5.52E-10 | 1.24E-08 |
| 2748 | 257781.8 | 4086246.99 | 7.98E-09 | 1.07E-07 | 1.58E-08 | 1.58E-08 | 8.80E-09 | 1.55E-07 | 1.21E-09 | 1.82E-08 | 2.46E-09 | 2.46E-09 | 1.35E-09 | 2.37E-08 | 6.58E-10 | 8.79E-09 | 1.10E-09 | 1.10E-09 | 5.43E-10 | 1.22E-08 |
| 2747 | 257806.09 | 4086245.92 | 7.64E-09 | 1.09E-07 | 1.55E-08 | 1.55E-08 | 8.64E-09 | 1.52E-07 | 1.19E-09 | 1.60E-08 | 2.42E-09 | 2.42E-09 | 1.33E-09 | 2.33E-08 | 6.46E-10 | 8.63E-09 | 1.08E-09 | 1.08E-09 | 5.33E-10 | 1.20E-08 |
| 2743 | 257830.37 | 4086244.84 | 7.69E-09 | 1.03E-07 | 1.52E-08 | 1.52E-08 | 6.48E-09 | 1.49E-07 | 1.17E-09 | 1.57E-08 | 2.37E-09 | 2.37E-09 | 1.31E-09 | 2.29E-08 | 6.34E-10 | 8.47E-09 | 1.06E-09 | 1.06E-09 | 5.23E-10 | 1.17E-08 |
| 2749 | 257854.65 | 4086243.77 | 7.56E-09 | 1.01E-07 | 1.49E-08 | 1.49E-08 | 8.33E-09 | 1.47E-07 | 1.15E-09 | 1.54E-08 | 2.33E-09 | 2.33E-09 | 1.28E-09 | 2.25E-08 | 6.25E-10 | 8.32E-09 | 1.04E-09 | 1.04E-09 | 5.14E-10 | 1.15E-08 |
| 2750 | 257878.93 | 4086242.69 | 7.42E-09 | 9.91E-08 | 1.47E-08 | 1.47E-08 | 8.17E-09 | 1.44E-07 | 1.13E-09 | 1.51E-08 | 2.29E-09 | 2.29E-09 | 1.26E-09 | 2.21E-08 | 6.12E-10 | 8.17E-09 | 1.02E-09 | 1.02E-09 | 5.04E-10 | 1.13E-08 |
| 2751 | 257903.21 | 4086241.62 | 7.26E-09 | 9.73E-08 | 1.44E-08 | 1.44E-08 | 6.03E-09 | 1.41E-07 | 1.11E-09 | 1.48E-08 | 2.25E-09 | 2.25E-09 | 1.24E-09 | 2.17E-08 | 6.00E-10 | 8.02E-09 | 1.00E-09 | 1.00E-09 | 4.95E-10 | 1.11E-08 |
| 2752 | 257927.5 | 4086240.54 | 7.16E-09 | 9.56E-08 | 1.41E-08 | 1.41E-08 | 7.89E-09 | 1.39E-07 | 1.09E-09 | 1.48E-08 | 2.21E-09 | 2.21E-09 | 1.21E-09 | 2.13E-08 | 5.90E-10 | 7.88E-09 | 9.83E-10 | 9.83E-10 | 4.86E-10 | 1.09E-08 |
| 2753 | 257951.78 | 4086239.47 | 7.03E-09 | 9.39E-08 | 1.39E-08 | 1.39E-08 | 7.75E-09 | 1.36E-07 | 1.07E-09 | 1.43E-08 | 2.17E-09 | 2.17E-09 | 1.19E-09 | 2.09E-08 | 5.80E-10 | 7.74E-09 | 9.85E-10 | 9.85E-10 | 4.78E-10 | 1.07E-08 |
| 2754 | 257976.06 | 4086238.39 | 6.91E-09 | 9.23E-08 | 1.37E-08 | 1.37E-08 | 7.61E-09 | 1.34E-07 | 1.05E-09 | 1.41E-08 | 2.13E-09 | 2.13E-09 | 1.17E-09 | 2.05E-08 | 5.69E-10 | 7.81E-09 | 9.48E-10 | 9.48E-10 | 4.69E-10 | 1.05E-08 |
| 2755 | 258000.34 | 4086237.32 | 6.78E-09 | 9.06E-08 | 1.34E-08 | 1.34E-08 | 7.47E-09 | 1.32E-07 | 1.03E-09 | 1.38E-08 | 2.09E-09 | 2.09E-09 | 1.15E-09 | 2.02E-08 | 5.59E-10 | 7.47E-09 | 9.31E-10 | 9.31E-10 | 4.61E-10 | 1.04E-08 |
| 2756 | 258024.62 | 4086236.24 | 6.66E-09 | 8.90E-08 | 1.32E-08 | 1.32E-08 | 7.34E-09 | 1.29E-07 | 1.01E-09 | 1.36E-08 | 2.05E-09 | 2.05E-09 | 1.13E-09 | 1.98E-08 | 5.49E-10 | 7.33E-09 | 9.14E-10 | 9.14E-10 | 4.53E-10 | 1.02E-08 |
| 2757 | 258048.9 | 4086235.16 | 6.54E-09 | 8.73E-08 | 1.29E-08 | 1.29E-08 | 7.20E-09 | 1.27E-07 | 9.92E-10 | 1.33E-08 | 2.02E-09 | 2.02E-09 | 1.11E-09 | 1.94E-08 | 5.39E-10 | 7.20E-09 | 8.97E-10 | 8.97E-10 | 4.44E-10 | 9.97E-09 |
| 2758 | 258073.19 | 4086234.09 | 6.41E-09 | 8.56E-08 | 1.27E-08 | 1.27E-08 | 7.06E-09 | 1.24E-07 | 9.73E-10 | 1.30E-08 | 1.98E-09 | 1.98E-09 | 1.09E-09 | 1.91E-08 | 5.29E-10 | 7.06E-09 | 8.80E-10 | 8.80E-10 | 4.36E-10 | 9.78E-09 |
| 2759 | 258097.47 | 4086233.01 | 6.29E-09 | 8.40E-08 | 1.24E-08 | 1.24E-08 | 6.93E-09 | 1.22E-07 | 9.54E-10 | 1.28E-08 | 1.94E-09 | 1.94E-09 | 1.07E-09 | 1.87E-08 | 5.18E-10 | 6.92E-09 | 8.63E-10 | 8.63E-10 | 4.27E-10 | 9.60E-09 |
| 2760 | 258121.75 | 4086131.94 | 8.18E-09 | 8.26E-08 | 1.22E-08 | 1.22E-08 | 6.81E-09 | 1.20E-07 | 9.38E-10 | 1.26E-08 | 1.91E-09 | 1.91E-09 | 1.05E-09 | 1.84E-08 | 5.10E-10 | 6.81E-09 | 8.49E-10 | 8.49E-10 | 4.20E-10 | 9.43E-09 |
| 2761 | 256146.03 | 4086230.86 | 8.06E-09 | 8.10E-08 | 1.20E-08 | 1.20E-08 | 6.68E-09 | 1.18E-07 | 9.20E-10 | 1.23E-08 | 1.87E-09 | 1.87E-09 | 1.03E-09 | 1.80E-08 | 5.00E-10 | 6.68E-09 | 6.32E-10 | 8.32E-10 | 4.12E-10 | 9.25E-09 |
| 2762 | 258170.31 | 4086229.79 | 5.94E-09 | 7.93E-08 | 1.17E-08 | 1.17E-08 | 6.54E-09 | 1.13E-07 | 9.01E-10 | 1.21E-08 | 1.83E-09 | 1.83E-09 | 1.05E-09 | 1.77E-08 | 4.90E-10 | 6.54E-09 | 6.15E-10 | 8.15E-10 | 4.04E-10 | 9.06E-09 |
| 2763 | 258194.8 | 4086228.71 | 5.82E-09 | 7.77E-08 | 1.13E-08 | 1.15E-08 | 6.41E-09 | 1.13E-07 | 8.83E-10 | 1.18E-08 | 1.79E-09 | 1.79E-09 | 9.87E-10 | 1.73E-08 | 4.79E-10 | 6.40E-09 | 7.98E-10 | 7.98E-10 | 3.95E-10 | 8.87E-09 |
| 2764 | 258218.88 | 4086227.64 | 5.89E-09 | 7.60E-08 | 1.13E-08 | 1.13E-08 | 6.27E-09 | 1.11E-07 | 8.64E-10 | 1.18E-08 | 1.78E-09 | 1.76E-09 | 9.66E-10 | 1.69E-08 | 4.69E-10 | 6.27E-09 | 7.82E-10 | 7.82E-10 | 3.87E-10 | 8.69E-09 |
| 2765 | 258243.16 | 4086226.56 | 5.57E-09 | 7.44E-08 | 1.10E-08 | 1.10E-08 | 6.14E-09 | 1.08E-07 | 8.45E-10 | 1.13E-08 | 1.77E-09 | 1.72E-09 | 9.45E-10 | 1.66E-08 | 4.59E-10 | 6.13E-09 | 7.65E-10 | 7.65E-10 | 3.78E-10 | 8.50E-09 |
| 2766 | 258287.44 | 4086225.49 | 5.44E-09 | 7.27E-08 | 1.08E-08 | 1.08E-08 | 6.00E-09 | 1.06E-07 | 8.76E-10 | 1.11E-08 | 1.68E-09 | 1.68E-09 | 9.24E-10 | 1.62E-08 | 4.49E-10 | 5.99E-09 | 7.47E-10 | 7.47E-10 | 3.70E-10 | 8.31E-09 |
| 2767 | 258291.72 | 4086224.41 | 5.32E-09 | 7.10E-08 | 1.05E-08 | 1.05E-08 | 5.86E-09 | 1.03E-07 | 8.07E-10 | 1.08E-08 | 1.64E-09 | 1.64E-09 | 9.02E-10 | 1.58E-08 | 4.38E-10 | 5.85E-09 | 7.30E-10 | 7.30E-10 | 3.61E-10 | 8.11E-09 |
| 2768 | 258316 | 4086223.33 | 5.19E-09 | 6.93E-08 | 1.03E-08 | 1.03E-08 | 5.72E-09 | 1.01E-07 | 7.87E-10 | 1.06E-08 | 1.60E-09 | 1.60E-09 | 6.80E-10 | 1.54E-08 | 4.26E-10 | 5.71E-09 | 7.12E-10 | 7.12E-10 | 3.53E-10 | 7.92E-09 |
| 2769 | 258340.29 | 4086222.28 | 5.06E-09 | 6.76E-08 | 1.00E-08 | 1.00E-08 | 5.57E-09 | 9.82E-08 | 7.68E-10 | 1.03E-08 | 1.56E-09 | 1.56E-09 | 8.58E-10 | 1.50E-08 | 4.17E-10 | 5.57E-09 | 8.95E-10 | 6.95E-10 | 3.44E-10 | 7.72E-09 |
| 2770 | 258364.57 | 4086221.18 | 4.93E-09 | 6.59E-08 | 9.75E-09 | 9.75E-09 | 5.44E-09 | 9.56E-08 | 7.49E-10 | 1.00E-08 | 1.52E-09 | 1.52E-09 | 8.37E-10 | 1.47E-08 | 4.07E-10 | 5.43E-09 | 6.77E-10 | 6.72E-10 | 3.35E-10 | 7.53E-09 |
| 2771 | 258388.85 | 4086220.11 | 4.81E-09 | 6.42E-08 | 9.50E-09 | 9.50E-09 | 5.30E-09 | 9.33E-08 | 7.30E-10 | 9.78E-09 | 1.48E-09 | 1.48E-09 | 6.16E-10 | 1.43E-08 | 3.96E-10 | 5.29E-09 | 6.60E-10 | 6.60E-10 | 3.27E-10 | 7.34E-09 |
| 2722 | 258413.13 | 4086219.03 | 4.68E-09 | 6.25E-08 | 9.25E-09 | 9.25E-09 | 5.16E-09 | 9.09E-08 | 7.11E-10 | 9.53E-09 | 1.44E-09 | 1.44E-09 | 7.94E-10 | 1.39E-08 | 3.86E-10 | 5.16E-09 | 6.43E-10 | 6.43E-10 | 3.16E-10 | 7.14E-09 |
| 2773 | 257598.33 | 4086446.16 | 6.90E-09 | 9.22E-08 | 1.36E-08 | 1.36E-08 | 7.60E-09 | 1.34E-07 | 1.05E-09 | 1.40E-08 | 2.13E-09 | 2.13E-09 | 1.17E-09 | 2.05E-08 | 5.69E-10 | 7.60E-09 | 9.47E-10 | 9.47E-10 | 4.69E-10 | 1.05E-08 |
| 2774 | 257575.98 | 4086438 | 7.06E-09 | 9.43E-08 | 1.39E-08 | 1.39E-08 | 7.77E-09 | 1.37E-07 | 1.07E-09 | 1.44E-08 | 2.18E-09 | 2.18E-09 | 1.20E-09 | 2.10E-08 | 5.82E-10 | 7.77E-09 | 9.69E-10 | 9.69E-10 | 4.80E-10 | 1.08E-08 |
| 2775 | 137553.64 | 4086429.83 | 7.25E-09 | 9.63E-08 | 1.42E-08 | 1.42E-08 | 7.94E-09 | 1.40E-07 | 1.09E-09 | 1.47E-08 | 2.22E-09 | 2.22E-09 | 1.22E-09 | 2.14E-08 | 5.94E-10 | 7.94E-09 | 9.90E-10 | 9.90E-10 | 4.90E-10 | 1.10E-08 |
| 2778 | 257531.29 | 4086421.67 | 7.36E-09 | 9.82E-08 | 1.45E-08 | 1.45E-08 | 8.10E-09 | 1.43E-07 | 1.12E-09 | 1.50E-08 | 2.27E-09 | 2.27E-09 | 1.25E-09 | 2.19E-08 | 6.06E-10 | 8.10E-09 | 1.01E-09 | 1.01E-09 | 5.00E-10 | 1.12E-08 |
| 2777 | 257508.94 | 4086413.51 | 7.50E-09 | 1.00E-07 | 1.48E-08 | 1.48E-08 | 8.26E-09 | 1.48E-07 | 1.14E-09 | 1.53E-08 | 2.31E-09 | 2.31E-09 | 1.27E-09 | 2.23E-08 | 6.16E-10 | 8.26E-09 | 1.03E-09 | 1.03E-09 | 5.09E-10 | 1.14E-08 |
| 2778 | 257486.39 | 4086405.34 | 7.54E-09 | 1.02E-07 | 1.51E-08 | 1.51E-08 | 8.41E-09 | 1.48E-07 | 1.16E-09 | 1.55E-08 | 2.36E-09 | 2.36E-09 | 1.30E-09 | 2.27E-08 | 6.29E-10 | 8.41E-09 | 1.05E-09 | 1.05E-09 | 5.19E-10 | 1.17E-08 |
| 2779 | 257464.24 | 4086397.18 | 7.77E-09 | 1.04E-07 | 1.53E-08 | 1.53E-08 | 8.56E-09 | 1.51E-07 | 1.18E-09 | 1.58E-08 | 2.40E-09 | 2.40E-09 | 1.32E-09 | 2.31E-08 | 6.40E-10 | 8.55E-09 | 1.07E-09 | 1.07E-09 | 5.28E-10 | 1.19E-08 |
| 2780 | 257441.89 | 4086389.01 | 7.89E-09 | 1.05E-07 | 1.56E-08 | 1.56E-08 | 8.69E-09 | 1.53E-07 | 1.20E-09 | 1.61E-08 | 2.43E-09 | 2.43E-09 | 1.34E-09 | 2.35E-08 | 6.50E-10 | 8.89E-09 | 1.08E-09 | 1.08E-09 | 5.36E-10 | 1.20E-08 |
| 2781 | 257419.54 | 4086380.85 | 8.01E-09 | 1.07E-07 | 1.58E-08 | 1.58E-08 | 8.82E-09 | 1.35E-07 | 1.22E-09 | 1.63E-08 | 2.47E-09 | 2.47E-09 | 1.36E-09 | 2.38E-08 | 6.60E-10 | 8.82E-09 | 1.10E-09 | 1.10E-09 | 5.44E-10 | 1.22E-08 |
| 2782 | 257397.19 | 4086372.69 | 8.11E-09 | 1.08E-07 | 1.60E-08 | 1.60E-08 | 8.94E-09 | 1.58E-07 | 1.23E-09 | 1.65E-08 | 2.50E-09 | 2.50E-09 | 1.38E-09 | 2.41E-08 | 6.69E-10 | 8.93E-09 | 1.11E-09 | 1.11E-09 | 5.51E-10 | 1.24E-08 |
| 2783 | 257374.85 | 4086364.32 | 8.21E-09 | 1.10E-07 | 1.62E-08 | 1.62E-08 | 9.05E-09 | 1.39E-07 | 1.25E-09 | 1.67E-08 | 2.53E-09 | 2.53E-09 | 1.39E-09 | 2.44E-08 | 6.72E-10 | 9.05E-09 | 1.13E-09 | 1.13E-09 | 5.56E-10 | 1.25E-08 |
| 2784 | 257352.5 | 4086356.36 | 8.31E-09 | 1.11E-07 | 1.64E-08 | 1.64E-08 | 9.16E-09 | 1.61E-07 | 1.26E-09 | 1.69E-08 | 2.56E-09 | 2.56E-09 | 1.41E-09 | 2.47E-08 | 6.85E-10 | 9.13E-09 | 1.14E-09 | 1.14E-09 | 5.65E-10 | 1.27E-08 |
| 2785 | 257330.15 | 4086348.19 | 8.40E-09 | 1.12E-07 | 1.66E-08 | 1.66E-08 | 9.25E-09 | 1.63E-07 | 1.27E-09 | 1.71E-08 | 2.59E-09 | 2.59E-09 | 1.42E-09 | 2.50E-08 | 6.92E-10 | 9.24E-09 | 1.15E-09 | 1.15E-09 | 5.75E-10 | 1.26E-08 |
| 2786 | 257307.8 | 4086340.03 | 8.48E-09 | 1.13E-07 | 1.68E-08 | 1.58E-08 | 9.34E-09 | 1.65E-07 | 1.29E-09 | 1.73E-08 | 2.62E-09 | 2.62E-09 | 1.44E-09 | 2.52E-08 | 6.99E-10 | 9.34E-09 | 1.16E-09 | 1.16E-09 | 5.76E-10 | 1.29E-08 |
| 2787 | 257285.45 | 4086331.87 | 8.56E-09 | 1.14E-07 | 1.69E-08 | 1.69E-08 | 9.43E-09 | 1.66E-07 | 1.30E-09 | 1.74E-08 | 2.64E-09 | 2.64E-09 | 1.45E-09 | 2.55E-08 | 7.06E-10 | 9.43E-09 | 1.18E-09 | 1.18E-09 | 5.82E-10 | 1.31E-08 |
| 2788 | 257263.1 | 4086325.7 | 8.64E-09 | 1.15E-07 | 1.71E-08 | 1.71E-08 | 9.52E-09 | 1.68E-07 | 1.31E-09 | 1.78E-08 | 2.67E-09 | 2.67E-09 | 1.47E-09 | 2.57E-08 | 7.12E-10 | 9.51E-09 | 1.19E-09 | 1.19E-09 | 5.87E-10 | 1.32E-08 |
| 2789 | 257240.75 | 4086315.54 | 8.72E-09 | 1.16E-07 | 1.72E-08 | 1.72E-08 | 9.61E-09 | 1.69E-07 | 1.32E-09 | 1.72E-08 | 2.69E-09 | 2.69E-09 | 1.48E-09 | 2.59E-08 | 7.19E-10 | 9.60E-09 | 1.20E-09 | 1.20E-09 | 5.92E-10 | 1.33E-08 |
| 2790 | 257218.4 | 4086307.37 | 8.80E-09 | 1.16E-07 | 1.74E-08 | 1.74E-08 | 9.69E-09 | 1.71E-07 | 1.34E-09 | 1.79E-08 | 2.71E-09 | 2.71E-09 | 1.49E-09 | 2.62E-08 | 7.25E-10 | 9.69E-09 | 1.21E-09 | 1.21E-09 | 5.98E-10 | 1.34E-08 |
| 2791 | 257196.06 | 4086299.21 | 8.88E-09 | 1.19E-07 | 1.75E-08 | 1.75E-08 | 9.78E-09 | 1.72E-07 | 1.35E-09 | 1.81E-08 | 2.74E-09 | 2.74E-09 | 1.51E-09 | 2.64E-08 | 7.32E-10 | 9.77E-09 | 1.22E-09 | 1.22E-09 | 6.03E-10 | 1.35E-08 |
| 2792 | 257173.71 | 4086291.04 | 8.96E-09 | 1.20E-07 | 1.77E-08 | 1.77E-08 | 9.87E-09 | 1.74E-07 | 1.36E-09 | 1.82E-08 | 2.76E-09 | 2.76E-09 | 1.52E-09 | 2.66E-08 | 7.38E-10 | 9.86E-09 | 1.23E-09 | 1.23E-09 | 6.09E-10 | 1.37E-08 |
| 2793 | 257151.36 | 4086282.88 | 9.06E-09 | 1.21E-07 | 1.79E-08 | 1.79E-08 | 9.98E-09 | 1.76E-07 | 1.37E-09 | 1.84E-08 | 2.79E-09 | 2.79E-09 | 1.54E-09 | 2.89E-08 | 7.47E-10 | 9.97E-09 | 1.24E-09 | 1.24E-09 | 6.13E-10 | 1.38E-08 |
| 2794 | 257129.01 | 4086274.72 | 9.15E-09 | 1.22E-07 | 1.81E-08 | 1.81E-08 | 1.01E-08 | 1.78E-07 | 1.39E-09 | 1.86E-08 | 2.82E-09 | 2.82E-09 | 1.55E-09 | 2.72E-08 | 7.54E-10 | 1.01E-08 | 1.26E-09 | 1.26E-09 | 6.21E-10 | 1.40E-08 |
| 2795 | 257106.66 | 4086266.55 | 9.22E-09 | 1.23E-07 | 1.82E-08 | 1.82E-08 | 1.02E-08 | 1.79E-07 | 1.40E-09 | 1.88E-08 | 2.84E-09 | 2.84E-09 | 1.56E-09 | 2.74E-08 | 7.60E-10 | 1.01E-08 | 1.27E-09 | 1.27E-09 | 6.26E-10 | 1.41E-08 |
| 2796 | 257084.31 | 4086258.39 | 9.28E-09 | 1.24E-07 | 1.83E-08 | 1.83E-08 | 1.02E-08 | 1.80E-07 | 1.41E-09 | 1.89E-08 | 2.86E-09 | 2.86E-09 | 1.57E-09 | 2.76E-08 | 7.65E-10 | 1.02E-08 | 1.27E-09 | 1.27E-09 | 6.31E-10 | 1.42E-08 |
| 2797 | 257061.96 | 4086250.22 | 9.33E-09 | 1.25E-07

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2593 | 257311.68 | 4085946.3 | 1.46E-08 | 1.95E-07 | 2.88E-08 | 2.88E-08 | 1.61E-08 | 2.83E-07 |
| 2594 | 257289.27 | 4085940.12 | 1.47E-08 | 1.97E-07 | 2.91E-08 | 2.91E-08 | 1.62E-08 | 2.86E-07 |
| 2595 | 257266.86 | 4085931.93 | 1.49E-08 | 1.99E-07 | 2.94E-08 | 2.94E-08 | 1.64E-08 | 2.89E-07 |
| 2596 | 257244.45 | 4085923.75 | 1.50E-08 | 2.01E-07 | 2.97E-08 | 2.97E-08 | 1.65E-08 | 2.91E-07 |
| 2597 | 257222.05 | 4085915.56 | 1.51E-08 | 2.02E-07 | 2.99E-08 | 2.99E-08 | 1.67E-08 | 2.93E-07 |
| 2598 | 257199.64 | 4085907.37 | 1.52E-08 | 2.03E-07 | 3.00E-08 | 3.00E-08 | 1.67E-08 | 2.95E-07 |
| 2599 | 257177.23 | 4085899.19 | 1.52E-08 | 2.03E-07 | 3.01E-08 | 3.01E-08 | 1.68E-08 | 2.95E-07 |
| 2600 | 257154.82 | 4085891 | 1.52E-08 | 2.03E-07 | 3.00E-06 | 3.00E-08 | 1.67E-08 | 2.95E-07 |
| 2601 | 257132.41 | 4085882.82 | 1.52E-08 | 2.02E-07 | 2.99E-08 | 2.99E-08 | 1.67E-08 | 2.94E-07 |
| 2602 | 257110.01 | 4085874.63 | 1.51E-08 | 2.01E-07 | 2.98E-08 | 2.98E-08 | 1.66E-08 | 2.93E-07 |
| 2603 | 257087.6 | 4085866.45 | 1.50E-08 | 2.00E-07 | 2.97E-08 | 2.97E-08 | 1.69E-08 | 2.91E-07 |
| 2604 | 257065.19 | 4085858.26 | 1.49E-08 | 1.99E-07 | 2.95E-08 | 2.95E-08 | 1.64E-08 | 2.90E-07 |
| 2605 | 257042.78 | 4085850.07 | 1.48E-08 | 1.98E-07 | 2.93E-08 | 2.93E-08 | 1.63E-08 | 2.88E-07 |
| 2606 | 257020.37 | 4085841.89 | 1.47E-08 | 1.97E-07 | 2.91E-08 | 2.91E-08 | 1.62E-08 | 2.86E-07 |
| 2607 | 256997.97 | 4085833.7 | 1.46E-08 | 1.96E-07 | 2.89E-08 | 2.89E-08 | 1.61E-08 | 2.84E-07 |
| 2608 | 256975.56 | 4085825.52 | 1.45E-08 | 1.94E-07 | 2.88E-08 | 2.88E-08 | 1.60E-08 | 2.82E-07 |
| 2609 | 256943.17 | 4085795.66 | 1.47E-08 | 1.96E-07 | 2.90E-08 | 2.90E-08 | 1.61E-08 | 2.84E-07 |
| 2610 | 256933.19 | 4085773.99 | 1.46E-08 | 1.98E-07 | 2.93E-08 | 2.93E-08 | 1.64E-08 | 2.88E-07 |
| 2611 | 256923.22 | 4085752.32 | 1.50E-08 | 2.00E-07 | 2.97E-08 | 2.97E-08 | 1.63E-08 | 2.91E-07 |
| 2612 | 256913.24 | 4085730.65 | 1.51E-08 | 2.02E-07 | 2.98E-08 | 2.98E-08 | 1.66E-08 | 2.93E-07 |
| 2613 | 256903.26 | 4085708.99 | 1.51E-08 | 2.02E-07 | 2.99E-08 | 2.99E-08 | 1.66E-08 | 2.93E-07 |
| 2614 | 256893.28 | 4085687.32 | 1.50E-08 | 2.01E-07 | 2.97E-08 | 2.97E-08 | 1.66E-08 | 2.92E-07 |
| 2615 | 256883.3 | 4085665.65 | 1.49E-08 | 1.99E-07 | 2.94E-08 | 2.94E-08 | 1.64E-08 | 2.89E-07 |
| 2616 | 256873.32 | 4085643.98 | 1.46E-08 | 1.96E-07 | 2.89E-08 | 2.89E-08 | 1.61E-08 | 2.84E-07 |
| 2617 | 256863.35 | 4085622.31 | 1.43E-08 | 1.91E-07 | 2.83E-08 | 2.83E-08 | 1.58E-08 | 2.78E-07 |
| 2618 | 256853.37 | 4085600.64 | 1.39E-08 | 1.86E-07 | 2.75E-08 | 2.75E-08 | 1.53E-08 | 2.70E-07 |
| 2619 | 256843.39 | 4085578.97 | 1.34E-08 | 1.79E-07 | 2.64E-08 | 2.64E-08 | 1.47E-08 | 2.60E-07 |
| 2620 | 256833.41 | 4085557.3 | 1.26E-08 | 1.71E-07 | 2.53E-08 | 2.53E-08 | 1.41E-08 | 2.48E-07 |
| 2621 | 256823.43 | 4085535.63 | 1.22E-08 | 1.62E-07 | 2.40E-08 | 2.40E-08 | 1.34E-08 | 2.36E-07 |
| 2622 | 256813.45 | 4085513.96 | 1.15E-08 | 1.53E-07 | 2.26E-08 | 2.26E-08 | 1.26E-08 | 2.22E-07 |
| 2623 | 256803.47 | 4085492.29 | 1.07E-08 | 1.44E-07 | 2.12E-08 | 2.12E-08 | 1.16E-08 | 2.09E-07 |
| 2624 | 256793.5 | 4085470.62 | 1.00E-08 | 1.34E-07 | 1.98E-08 | 1.98E-08 | 1.10E-08 | 1.95E-07 |
| 2625 | 256783.52 | 4085448.95 | 9.36E-09 | 1.25E-07 | 1.65E-08 | 1.85E-08 | 1.03E-08 | 1.81E-07 |
| 2626 | 256773.54 | 4085427.29 | 8.69E-09 | 1.16E-07 | 1.72E-08 | 1.72E-08 | 9.57E-09 | 1.69E-07 |
| 2627 | 256763.56 | 4085405.62 | 6.10E-09 | 1.08E-07 | 1.60E-08 | 1.60E-08 | 6.93E-09 | 1.57E-07 |
| 2626 | 256753.58 | 4085363.95 | 7.59E-09 | 1.01E-07 | 1.50E-08 | 1.50E-08 | 8.36E-09 | 1.47E-07 |
| 2629 | 256743.6 | 4085362.28 | 7.14E-09 | 9.54E-08 | 1.41E-08 | 1.41E-08 | 7.87E-09 | 1.39E-07 |
| 2630 | 256733.63 | 4085340.61 | 6.77E-09 | 9.04E-08 | 1.34E-08 | 1.34E-08 | 7.46E-09 | 1.31E-07 |
| 2621 | 236723.65 | 4085318.94 | 6.45E-09 | 8.62E-08 | 1.28E-08 | 1.28E-08 | 7.11E-09 | 1.25E-07 |
| 2632 | 256713.67 | 4085297.27 | 6.19E-09 | 8.26E-08 | 1.22E-08 | 1.22E-08 | 6.82E-09 | 1.20E-07 |
| 2633 | 256703.69 | 4085275.6 | 5.96E-09 | 7.96E-08 | 1.16E-08 | 1.18E-08 | 6.56E-09 | 1.16E-07 |
| 2634 | 256693.71 | 4085253.93 | 5.78E-09 | 7.69E-08 | 1.14E-08 | 1.14E-08 | 6.34E-09 | 1.12E-07 |
| 2625 | 256683.73 | 4085232.26 | 5.58E-09 | 7.45E-08 | 1.10E-08 | 1.10E-08 | 6.14E-09 | 1.08E-07 |
| 2838 | 256673.76 | 4085210.59 | 5.42E-09 | 7.24E-08 | 1.07E-08 | 1.07E-08 | 5.97E-09 | 1.05E-07 |
| 2837 | 257602.98 | 4086054.72 | 1.21E-08 | 1.62E-07 | 2.40E-08 | 2.40E-08 | 1.34E-08 | 2.33E-07 |
| 2636 | 257627.26 | 4086053.64 | 1.20E-08 | 1.61E-07 | 2.36E-08 | 2.38E-08 | 1.33E-08 | 2.34E-07 |
| 2639 | 257651.59 | 4086052.57 | 1.20E-08 | 1.60E-07 | 2.36E-08 | 2.36E-08 | 1.32E-08 | 2.32E-07 |
| 2640 | 257875.83 | 4086051.49 | 1.18E-08 | 1.58E-07 | 2.34E-08 | 2.34E-08 | 1.31E-08 | 2.30E-07 |
| 2641 | 257700.11 | 4086050.42 | 1.17E-08 | 1.56E-07 | 2.32E-08 | 2.32E-08 | 1.29E-08 | 2.27E-07 |
| 2642 | 257724.39 | 4086049.34 | 1.16E-08 | 1.54E-07 | 2.26E-08 | 2.28E-08 | 1.27E-08 | 2.24E-07 |
| 2643 | 257748.67 | 4086048.27 | 1.14E-08 | 1.52E-07 | 2.25E-08 | 2.25E-08 | 1.25E-08 | 2.21E-07 |
| 2644 | 257772.96 | 4086047.19 | 1.12E-08 | 1.49E-07 | 2.21E-08 | 2.21E-08 | 1.23E-08 | 2.17E-07 |
| 2645 | 257797.24 | 4086046.11 | 1.10E-08 | 1.46E-07 | 2.17E-08 | 2.17E-08 | 1.21E-08 | 2.13E-07 |
| 2646 | 257821.52 | 4086045.04 | 1.07E-08 | 1.43E-07 | 2.12E-08 | 2.12E-08 | 1.16E-08 | 2.08E-07 |
| 2647 | 297845.8 | 4086043.96 | 1.05E-08 | 1.40E-07 | 2.07E-08 | 2.07E-08 | 1.16E-08 | 2.04E-07 |
| 2648 | 257870.08 | 4086042.89 | 1.03E-08 | 1.37E-07 | 2.03E-08 | 2.03E-08 | 1.13E-08 | 1.99E-07 |
| 2649 | 257894.36 | 4086041.81 | 1.00E-08 | 1.34E-07 | 1.98E-08 | 1.98E-08 | 1.10E-08 | 1.95E-07 |
| 2650 | 257918.65 | 4086040.74 | 9.80E-09 | 1.31E-07 | 1.94E-08 | 1.94E-08 | 1.08E-08 | 1.90E-07 |
| 2651 | 257942.93 | 4086039.66 | 9.60E-09 | 1.28E-07 | 1.90E-08 | 1.90E-08 | 1.06E-06 | 1.86E-07 |
| 2652 | 257967.21 | 4086038.59 | 9.41E-09 | 1.26E-07 | 1.85E-08 | 1.86E-08 | 1.04E-08 | 1.83E-07 |
| 2653 | 257991.49 | 4086037.51 | 9.24E-09 | 1.23E-07 | 1.83E-08 | 1.63E-08 | 1.02E-08 | 1.79E-07 |
| 2654 | 258015.77 | 4086036.44 | 9.08E-09 | 1.21E-07 | 1.79E-08 | 1.79E-08 | 1.00E-08 | 1.76E-07 |
| 2655 | 258040.06 | 4086035.36 | 6.92E-09 | 1.19E-07 | 1.76E-08 | 1.76E-08 | 9.83E-09 | 1.73E-07 |
| 2656 | 258064.34 | 4086034.26 | 8.76E-09 | 1.17E-07 | 1.75E-08 | 1.73E-08 | 9.65E-09 | 1.70E-07 |
| 2657 | 258088.62 | 4086033.21 | 8.58E-09 | 1.15E-07 | 1.70E-08 | 1.70E-08 | 9.46E-09 | 1.67E-07 |
| 2658 | 258112.9 | 4086032.13 | 8.40E-09 | 1.12E-07 | 1.66E-08 | 1.66E-08 | 9.25E-09 | 1.63E-07 |
| 2659 | 258137.18 | 4086031.06 | 6.20E-09 | 1.10E-07 | 1.62E-08 | 1.62E-08 | 9.04E-09 | 1.59E-07 |
| 2660 | 258161.46 | 4086029.98 | 7.99E-09 | 1.07E-07 | 1.58E-08 | 1.58E-08 | 8.81E-09 | 1.55E-07 |
| 2661 | 258185.75 | 4086028.91 | 7.78E-09 | 1.04E-07 | 1.54E-08 | 1.54E-08 | 8.57E-09 | 1.51E-07 |
| 2662 | 258710.03 | 4086027.83 | 7.57E-09 | 1.01E-07 | 1.50E-08 | 1.50E-08 | 8.34E-09 | 1.47E-07 |
| 2663 | 258234.31 | 4086026.76 | 7.35E-09 | 9.82E-08 | 1.45E-08 | 1.45E-08 | 8.10E-09 | 1.43E-07 |
| 2664 | 258258.59 | 4086025.68 | 7.14E-09 | 9.54E-08 | 1.41E-08 | 1.41E-08 | 7.86E-09 | 1.39E-07 |
| 2665 | 258282.87 | 4086024.61 | 6.93E-09 | 9.26E-08 | 1.37E-08 | 1.37E-08 | 7.63E-09 | 1.35E-07 |
| 2666 | 258307.16 | 4086023.53 | 6.72E-09 | 8.98E-08 | 1.33E-08 | 1.33E-08 | 7.41E-09 | 1.31E-07 |
| 2667 | 258331.44 | 4086022.45 | 6.52E-09 | 8.71E-08 | 1.29E-08 | 1.29E-08 | 7.18E-09 | 1.27E-07 |
| 2668 | 256355.72 | 4086031.38 | 6.32E-09 | 8.44E-08 | 1.25E-08 | 1.25E-08 | 6.97E-09 | 1.23E-07 |
| 2669 | 258380 | 4086020.3 | 6.13E-09 | 8.19E-08 | 1.21E-08 | 1.21E-08 | 6.75E-09 | 1.19E-07 |
| 2670 | 258404.28 | 4086019.23 | 5.94E-09 | 7.94E-08 | 1.17E-08 | 1.17E-08 | 6.55E-09 | 1.15E-07 |
| 2671 | 257589.14 | 4086246.23 | 9.05E-09 | 1.21E-07 | 1.79E-08 | 1.79E-08 | 9.97E-09 | 1.78E-07 |
| 2672 | 257566.45 | 4086237.94 | 9.24E-09 | 1.23E-07 | 1.83E-08 | 1.83E-08 | 1.02E-08 | 1.79E-07 |
| 2673 | 257543.75 | 4086229.65 | 9.41E-09 | 1.26E-07 | 1.66E-08 | 1.86E-08 | 1.04E-08 | 1.83E-07 |
| 2674 | 257521.06 | 4086221.36 | 9.58E-09 | 1.28E-07 | 1.89E-08 | 1.89E-08 | 1.06E-08 | 1.86E-07 |
| 2675 | 257498.37 | 4086213.07 | 9.75E-09 | 1.30E-07 | 1.93E-08 | 1.93E-08 | 1.07E-08 | 1.89E-07 |
| 2676 | 257475.68 | 4086204.78 | 9.90E-09 | 1.32E-07 | 1.96E-08 | 1.96E-08 | 1.09E-08 | 1.92E-07 |
| 2677 | 257452.98 | 4086196.49 | 1.00E-08 | 1.34E-07 | 1.99E-08 | 1.99E-08 | 1.11E-08 | 1.95E-07 |
| 2676 | 257430.29 | 4086188.21 | 1.02E-08 | 1.36E-07 | 2.01E-08 | 2.01E-08 | 1.12E-08 | 1.58E-07 |
| 2679 | 257407.6 | 4086179.92 | 1.03E-08 | 1.38E-07 | 2.04E-08 | 2.04E-08 | 1.14E-08 | 2.00E-07 |
| 2680 | 257384.91 | 4086171.63 | 1.04E-08 | 1.39E-07 | 2.06E-08 | 2.06E-08 | 1.15E-08 | 2.05E-07 |
| 2681 | 257362.21 | 4086163.34 | 1.05E-08 | 1.41E-07 | 2.08E-08 | 2.08E-08 | 1.16E-08 | 2.05E-07 |
| 2682 | 257339.52 | 4086135.05 | 1.07E-08 | 1.42E-07 | 2.11E-08 | 2.11E-08 | 1.17E-08 | 2.07E-07 |
| 2683 | 257316.83 | 4086146.76 | 1.08E-08 | 1.44E-07 | 2.15E-08 | 2.13E-08 | 1.19E-08 | 2.09E-07 |
| 2684 | 257294.14 | 4086138.47 | 1.09E-08 | 1.46E-07 | 2.15E-08 | 2.15E-08 | 1.20E-08 | 2.11E-07 |
| 2685 | 257271.44 | 4086130.18 | 1.10E-08 | 1.47E-07 | 2.17E-08 | 2.17E-08 | 1.21E-08 | 2.14E-07 |
| 2666 | 257248.75 | 4086121.89 | 1.11E-08 | 1.48E-07 | 2.20E-08 | 2.20E-08 | 1.22E-08 | 2.16E-07 |
| 2687 | 257226.06 | 4086113.6 | 1.12E-08 | 1.50E-07 | 2.22E-08 | 2.22E-08 | 1.24E-08 | 2.16E-07 |
| 2688 | 257203.37 | 4086105.31 | 1.13E-08 | 1.51E-07 | 2.24E-08 | 2.24E-08 | 1.25E-08 | 2.20E-07 |
| 2689 | 257180.67 | 4086097.02 | 1.14E-08 | 1.53E-07 | 2.26E-08 | 2.26E-08 | 1.26E-08 | 2.22E-07 |
| 2690 | 257157.98 | 4086088.73 | 1.15E-08 | 1.54E-07 | 2.28E-08 | 2.28E-08 | 1.27E-08 | 2.24E-07 |
| 2691 | 257135.29 | 4086080.44 | 1.16E-08 | 1.55E-07 | 2.29E-08 | 2.29E-08 | 1.26E-08 | 2.25E-07 |
| 2692 | 257112.6 | 4086072.15 | 1.16E-08 | 1.56E-07 | 2.30E-08 | 2.30E-08 | 1.28E-08 | 2.26E-07 |
| 2693 | 257089.9 | 4086063.86 | 1.17E-08 | 1.56E-07 | 2.31E-08 | 2.31E-08 | 1.29E-08 | 2.27E-07 |
| 2694 | 257067.21 | 4086055.57 | 1.17E-08 | 1.56E-07 | 2.31E-08 | 2.31E-08 | 1.29E-08 | 2.27E-07 |
| 2695 | 257044.52 | 4086047.28 | 1.17E-08 | 1.56E-07 | 2.31E-08 | 2.31E-08 | 1.29E-08 | 2.26E-07 |
| 2696 | 257021.83 | 4086038.99 | 1.16E-08 | 1.55E-07 | 2.30E-08 | 2.30E-08 | 1.26E-08 | 2.26E-07 |
| 2697 | 256999.13 | 4086030.7 | 1.16E-08 | 1.55E-07 | 2.29E-08 | 2.29E-08 | 1.28E-08 | 2.25E-07 |
| 2698 | 256976.44 | 4086022.41 | 1.16E-08 | 1.55E-07 | 2.29E-08 | 2.29E-08 | 1.28E-08 | 2.25E-07 |
| 2699 | 256953.75 | 4086014.12 | 1.16E-08 | 1.34E-07 | 2.26E-08 | 2.28E-08 | 1.27E-08 | 2.24E-07 |
| 2700 | 256931.06 | 4086005.63 | 1.15E-08 | 1.34E-07 | 2.26E-08 | 2.28E-08 | 1.27E-08 | 2.24E-07 |
| 2701 | 256908.36 | 4085997.54 | 1.15E-08 | 1.54E-07 | 2.27E-08 | 2.27E-08 | 1.27E-08 | 2.23E-07 |
| 2702 | 256885.67 | 4085989.25 | 1.15E-08 | 1.53E-07 | 2.27E-08 | 2.27E-08 | 1.27E-08 | 2.23E-07 |
| 2703 | 256862.98 | 4085980.96 | 1.15E-08 | 1.53E-07 | 2.27E-08 | 2.27E-08 | 1.26E-08 | 2.23E-07 |
| 2704 | 256840.29 | 4085972.67 | 1.14E-08 | 1.53E-07 | 2.26E-08 | 2.26E-08 | 1.26E-08 | 2.22E-07 |
| 2705 | 256807.49 | 4085942.44 | 1.16E-08 | 1.55E-07 | 2.29E-08 | 2.29E-08 | 1.28E-08 | 2.25E-07 |
| 2706 | 256797.58 | 4085920.49 | 1.16E-08 | 1.57E-07 | 2.33E-08 | 2.33E-08 | 1.30E-08 | 2.28E-07 |
| 2707 | 256767.26 | 4085898.55 | 1.19E-08 | 1.59E-07 | 2.36E-08 | 2.36E-08 | 1.31E-08 | 2.31E-07 |
| 2708 | 256777.17 | 4085876.61 | 1.21E-08 | 1.61E-07 | 2.36E-08 | 2.38E-08 | 1.33E-08 | 2.34E-07 |
| 2709 | 256787.07 | 4085864.65 | 1.21E-08 | 1.62E-07 | 2.40E-08 | 2.40E-08 | 1.34E-08 | 2.58E-07 |
| 2710 | 256756.96 | 4085832.72 | 1.22E-08 | 1.62E-07 | 2.41E-08 | 2.41E-08 | 1.34E-08 | 2.37E-07 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2.21E-09 | 2.97E-08 | 4.50E-09 | 4.50E-09 | 2.47E-09 | 4.33E-08 | | | |
| 2.24E-09 | 3.00E-08 | 4.55E-09 | 4.55E-09 | 2.50E-09 | 4.38E-08 | | | |
| 2.26E-09 | 3.03E-08 | 4.59E-09 | 4.59E-09 | 2.52E-09 | 4.43E-08 | | | |
| 2.26E-09 | 3.08E-08 | 4.63E-09 | 4.63E-09 | 2.55E-09 | 4.46E-08 | | | |
| 2.29E-09 | 3.03E-08 | 4.66E-09 | 4.66E-09 | 2.56E-09 | 4.50E-08 | | | |
| 2.30E-09 | 3.09E-08 | 4.69E-09 | 4.69E-09 | 2.58E-09 | 4.52E-08 | | | |
| 2.31E-09 | 3.10E-08 | 4.69E-09 | 4.69E-09 | 2.58E-09 | 4.52E-08 | | | |
| 2.31E-09 | 3.09E-08 | 4.69E-09 | 4.69E-09 | 2.58E-09 | 4.52E-08 | | | |
| 2.30E-09 | 3.08E-08 | 4.68E-09 | 4.68E-09 | 2.57E-09 | 4.51E-06 | | | |
| 2.29E-09 | 3.07E-08 | 4.65E-09 | 4.65E-09 | 2.56E-09 | 4.49E-08 | | | |
| 2.26E-09 | 3.05E-08 | 4.63E-09 | 4.63E-09 | 2.55E-09 | 4.46E-08 | | | |
| 2.26E-09 | 3.04E-08 | 4.60E-09 | 4.60E-09 | 2.53E-09 | 4.44E-08 | | | |
| 2.25E-09 | 3.02E-08 | 4.58E-09 | 4.58E-09 | 2.52E-09 | 4.41E-08 | | | |
| 2.24E-09 | 3.00E-08 | 4.55E-09 | 4.55E-09 | 2.50E-09 | 4.38E-08 | | | |
| 2.22E-09 | 2.98E-08 | 4.52E-09 | 4.52E-09 | 2.49E-09 | 4.58E-08 | | | |
| 2.21E-09 | 2.96E-08 | 4.49E-09 | 4.49E-09 | 2.47E-09 | 4.33E-08 | | | |
| 2.22E-09 | 2.98E-08 | 4.52E-09 | 4.52E-09 | 2.49E-09 | 4.36E-08 | | | |
| 2.26E-09 | 3.02E-08 | 4.58E-09 | 4.56E-09 | 2.52E-09 | 4.41E-08 | | | |
| 2.28E-09 | 3.05E-08 | 4.63E-09 | 4.63E-09 | 2.55E-09 | 4.46E-08 | | | |
| 2.29E-09 | 3.07E-08 | 4.66E-09 | 4.66E-09 | 2.56E-09 | 4.49E-08 | | | |
| 2.29E-09 | 3.07E-08 | 4.66E-09 | 4.66E-09 | 2.58E-09 | 4.49E-08 | | | |
| 2.28E-09 | 3.06E-08 | 4.64E-09 | 4.64E-09 | 2.55E-09 | 4.47E-08 | | | |
| 2.26E-09 | 3.03E-08 | 4.59E-09 | 4.59E-09 | 2.53E-09 | 4.43E-08 | | | |
| 2.22E-09 | 2.98E-08 | 4.52E-09 | 4.52E-09 | 2.49E-09 | 4.58E-08 | | | |
| 2.17E-09 | 2.91E-08 | 4.42E-09 | 4.42E-09 | 2.43E-09 | 4.26E-08 | | | |
| 2.11E-09 | 2.63E-08 | 4.29E-09 | 4.29E-09 | 2.36E-09 | 4.13E-08 | | | |
| 2.03E-09 | 2.72E-08 | 4.13E-09 | 4.13E-09 | 2.27E-09 | 3.98E-08 | | | |
| 1.94E-09 | 2.60E-08 | 3.95E-09 | 3.95E-09 | 2.17E-09 | 3.81E-08 | | | |
| 1.84E-09 | 2.47E-08 | 3.75E-09 | 3.75E-09 | 2.06E-09 | 3.61E-08 | | | |
| 1.74E-09 | 2.33E-08 | 3.54E-09 | 3.54E-09 | 1.94E-09 | 3.41E-08 | | | |
| 1.63E-09 | 2.19E-08 | 3.32E-09 | 3.32E-09 | 1.82E-09 | 3.19E-08 | | | |
| 1.52E-09 | 2.04E-08 | 3.09E-09 | 3.09E-09 | 1.70E-09 | 2.98E-08 | | | |
| 1.42E-09 | 1.90E-08 | 2.88E-09 | 2.88E-09 | 1.58E-09 | 2.78E-08 | | | |
| 1.32E-09 | 1.77E-08 | 2.68E-09 | 2.88E-09 | 1.47E-09 | 2.58E-08 | | | |
| 1.23E-09 | 1.65E-08 | 2.50E-09 | 2.50E-09 | 1.37E-09 | 2.41E-08 | | | |
| 1.15E-09 | 1.54E-08 | 2.34E-09 | 2.34E-09 | 1.29E-09 | 2.26E-08 | | | |
| 1.08E-09 | 1.45E-08 | 2.20E-09 | 2.20E-09 | 1.21E-09 | 2.12E-08 | | | |
| 1.03E-09 | 1.38E-08 | 2.09E-09 | 2.09E-09 | 1.19E-09 | 2.01E-08 | | | |
| 9.79E-10 | 1.31E-08 | 1.99E-09 | 1.99E-09 | 1.09E-09 | 1.92E-08 | | | |
| 9.39E-10 | 1.26E-08 | 1.91E-09 | 1.91E-09 | 1.05E-09 | 1.84E-08 | | | |
| 9.04E-10 | 1.21E-08 | 1.84E-09 | 1.84E-09 | 1.01E-09 | 1.77E-08 | | | |
| 6.73E-10 | 1.17E-08 | 1.78E-09 | 1.78E-09 | 9.76E-10 | 1.71E-08 | | | |
| 8.46E-10 | 1.13E-08 | 1.72E-09 | 1.72E-09 | 9.46E-10 | 1.66E-08 | | | |
| 8.22E-10 | 1.10E-08 | 1.67E-09 | 1.67E-09 | 9.19E-10 | 1.61E-08 | | | |
| 1.84E-09 | 2.47E-08 | 3.74E-09 | 3.74E-09 | 2.06E-09 | 3.60E-08 | | | |
| 1.83E-09 | 2.45E-08 | 3.77E-09 | 3.72E-09 | 2.04E-09 | 3.58E-08 | | | |
| 1.81E-09 | 2.43E-08 | 3.69E-09 | 3.69E-09 | 2.03E-09 | 3.56E-08 | | | |
| 1.80E-09 | 2.41E-08 | 3.65E-09 | 3.66E-09 | 2.01E-09 | 3.52E-08 | | | |
| 1.78E-09 | 2.38E-08 | 3.61E-09 | 3.61E-09 | 1.99E-09 | 3.48E-08 | | | |
| 1.75E-09 | 2.35E-08 | 3.57E-09 | 3.57E-09 | 1.96E-09 | 3.44E-08 | | | |
| 1.73E-09 | 2.32E-08 | 3.51E-09 | 3.51E-09 | 1.93E-09 | 3.38E-08 | | | |
| 1.70E-09 | 2.28E-08 | 3.45E-09 | 3.45E-09 | 1.90E-09 | 3.33E-08 | | | |
| 1.66E-09 | 2.23E-08 | 3.38E-09 | 3.38E-09 | 1.86E-09 | 3.26E-08 | | | |
| 1.62E-09 | 2.18E-08 | 3.31E-09 | 3.31E-09 | 1.82E-09 | 3.19E-08 | | | |
| 1.59E-09 | 2.14E-08 | 3.24E-09 | 3.24E-09 | 1.78E-09 | 3.12E-08 | | | |
| 1.56E-09 | 2.09E-08 | 3.16E-09 | 3.16E-09 | 1.74E-09 | 3.05E-08 | | | |
| 1.52E-09 | 2.04E-08 | 3.09E-09 | 3.09E-09 | 1.70E-09 | 2.98E-08 | | | |
| 1.49E-09 | 1.99E-08 | 3.02E-09 | 3.02E-09 | 1.66E-09 | 2.91E-08 | | | |
| 1.46E-09 | 1.95E-08 | 2.96E-09 | 2.96E-09 | 1.63E-09 | 2.85E-08 | | | |
| 1.43E-09 | 1.92E-08 | 2.90E-09 | 2.90E-09 | 1.60E-09 | 2.80E-08 | | | |
| 1.40E-09 | 1.88E-08 | 2.85E-09 | 2.85E-09 | 1.57E-09 | 2.75E-08 | | | |
| 1.38E-09 | 1.85E-08 | 2.80E-09 | 2.80E-09 | 1.54E-09 | 2.70E-08 | | | |
| 1.35E-09 | 1.82E-08 | 2.75E-09 | 2.75E-09 | 1.51E-09 | 2.65E-08 | | | |
| 1.33E-09 | 1.78E-08 | 2.70E-09 | 2.70E-09 | 1.49E-09 | 2.60E-08 | | | |
| 1.30E-09 | 1.75E-08 | 2.65E-09 | 2.65E-09 | 1.46E-09 | 2.55E-08 | | | |
| 1.27E-09 | 1.71E-08 | 2.59E-09 | 2.59E-09 | 1.42E-09 | 2.50E-08 | | | |
| 1.24E-09 | 1.67E-08 | 2.53E-09 | 2.53E-09 | 1.39E-09 | 2.44E-08 | | | |
| 1.21E-09 | 1.62E-08 | 2.47E-09 | 2.47E-09 | 1.36E-09 | 2.38E-08 | | | |
| 1.18E-09 | 1.58E-08 | 2.40E-09 | 2.40E-09 | 1.32E-09 | 2.31E-08 | | | |
| 1.15E-09 | 1.54E-08 | 2.33E-09 | 2.33E-09 | 1.28E-09 | 2.25E-08 | | | |
| 1.12E-09 | 1.50E-08 | 2.27E-09 | 2.27E-09 | 1.25E-09 | 2.19E-08 | | | |
| 1.08E-09 | 1.45E-08 | 2.20E-09 | 2.20E-09 | 1.21E-09 | 2.12E-08 | | | |
| 1.05E-09 | 1.41E-08 | 2.14E-09 | 2.14E-09 | 1.18E-09 | 2.06E-08 | | | |
| 1.02E-09 | 1.37E-08 | 2.07E-09 | 2.07E-09 | 1.14E-09 | 2.00E-08 | | | |
| 9.90E-10 | 1.33E-08 | 2.01E-09 | 2.01E-09 | 1.11E-09 | 1.94E-08 | | | |
| 9.60E-10 | 1.29E-08 | 1.95E-09 | 1.95E-09 | 1.07E-09 | 1.88E-08 | | | |
| 9.30E-10 | 1.25E-08 | 1.89E-09 | 1.69E-09 | 1.04E-09 | 1.82E-06 | | | |
| 9.02E-10 | 1.21E-08 | 1.83E-09 | 1.83E-09 | 1.01E-09 | 1.77E-08 | | | |
| 1.37E-09 | 1.84E-08 | 2.79E-09 | 2.79E-09 | 1.53E-09 | 2.69E-08 | | | |
| 1.40E-09 | 1.88E-08 | 2.85E-09 | 2.83E-09 | 1.57E-09 | 2.75E-08 | | | |
| 1.45E-09 | 1.92E-08 | 2.90E-09 | 2.90E-09 | 1.60E-09 | 2.80E-08 | | | |
| 1.45E-09 | 1.95E-08 | 2.96E-09 | 2.96E-09 | 1.63E-09 | 2.85E-08 | | | |
| 1.48E-09 | 1.98E-08 | 3.01E-09 | 3.01E-09 | 1.65E-09 | 2.90E-08 | | | |
| 1.50E-09 | 2.01E-08 | 3.06E-09 | 3.06E-09 | 1.68E-09 | 2.94E-08 | | | |
| 1.52E-09 | 2.04E-08 | 3.10E-09 | 3.10E-09 | 1.70E-09 | 2.99E-08 | | | |
| 1.55E-09 | 2.07E-08 | 3.14E-09 | 3.14E-09 | 1.73E-09 | 3.03E-08 | | | |
| 1.57E-09 | 2.10E-08 | 3.18E-09 | 3.18E-09 | 1.75E-09 | 3.07E-08 | | | |
| 1.58E-09 | 2.12E-08 | 3.22E-09 | 3.22E-09 | 1.77E-09 | 3.10E-08 | | | |
| 1.60E-09 | 2.15E-08 | 3.25E-09 | 3.25E-09 | 1.79E-09 | 3.13E-08 | | | |
| 1.62E-09 | 2.17E-08 | 3.29E-09 | 3.29E-09 | 1.81E-09 | 3.17E-08 | | | |
| 1.64E-09 | 2.19E-08 | 3.33E-09 | 3.33E-09 | 1.83E-09 | 3.21E-08 | | | |
| 1.65E-09 | 2.22E-08 | 3.36E-09 | 3.36E-09 | 1.85E-09 | 3.24E-08 | | | |
| 1.67E-09 | 2.24E-08 | 3.39E-09 | 3.39E-09 | 1.87E-09 | 3.27E-08 | | | |
| 1.69E-09 | 2.26E-08 | 3.43E-09 | 3.43E-09 | 1.88E-09 | 3.30E-08 | | | |
| 1.70E-09 | 2.26E-08 | 3.46E-09 | 3.46E-09 | 1.90E-09 | 3.34E-08 | | | |
| 1.72E-09 | 2.30E-08 | 3.49E-09 | 3.49E-09 | 1.92E-09 | 3.37E-08 | | | |
| 1.73E-09 | 2.33E-08 | 3.53E-09 | 3.53E-09 | 1.94E-09 | 3.40E-08 | | | |
| 1.75E-09 | 2.34E-08 | 3.53E-09 | 3.55E-09 | 1.95E-09 | 3.43E-08 | | | |
| 1.76E-09 | 2.35E-08 | 3.58E-09 | 3.58E-09 | 1.97E-09 | 3.45E-08 | | | |
| 1.77E-09 | 2.37E-08 | 3.59E-09 | 3.59E-09 | 1.98E-09 | 3.46E-08 | | | |
| 1.77E-09 | 2.37E-08 | 3.60E-09 | 3.60E-09 | 1.98E-09 | 3.47E-08 | | | |
| 1.77E-09 | 2.38E-08 | 3.60E-09 | 3.60E-09 | 1.98E-09 | 3.47E-08 | | | |
| 1.77E-09 | 2.37E-08 | 3.60E-09 | 3.60E-09 | 1.98E-09 | 3.47E-08 | | | |
| 1.77E-09 | 2.37E-08 | 3.59E-09 | 3.59E-09 | 1.97E-09 | 3.46E-08 | | | |
| 1.76E-09 | 2.36E-08 | 3.58E-09 | 3.58E-09 | 1.97E-09 | 3.45E-08 | | | |
| 1.76E-09 | 2.36E-08 | 3.57E-09 | 3.57E-09 | 1.97E-09 | 3.44E-08 | | | |
| 1.75E-09 | 2.35E-08 | 3.57E-09 | 3.57E-09 | 1.96E-09 | 3.44E-08 | | | |
| 1.75E-09 | 2.35E-08 | 3.56E-09 | 3.56E-09 | 1.96E-09 | 3.43E-08 | | | |
| 1.75E-09 | 2.34E-08 | 3.53E-09 | 3.59E-09 | 1.95E-09 | 3.42E-08 | | | |
| 1.74E-09 | 2.34E-08 | 3.55E-09 | 3.55E-09 | 1.95E-09 | 3.42E-08 | | | |
| 1.74E-09 | 2.33E-08 | 3.54E-09 | 3.54E-09 | 1.95E-09 | 3.41E-08 | | | |
| 1.74E-09 | 2.33E-08 | 3.53E-09 | 3.53E-09 | 1.94E-09 | 3.40E-08 | | | |
| 1.76E-09 | 2.36E-08 | 3.58E-09 | 3.58E-09 | 1.97E-09 | 3.45E-08 | | | |
| 1.79E-09 | 2.40E-08 | 3.63E-09 | 3.63E-09 | 2.00E-09 | 3.50E-08 | | | |
| 1.61E-09 | 2.43E-08 | 3.68E-09 | 3.68E-09 | 2.02E-09 | 3.53E-08 | | | |
| 1.83E-09 | 2.45E-08 | 3.72E-09 | 3.72E-09 | 2.04E-09 | 3.58E-08 | | | |
| 1.84E-09 | 2.47E-08 | 3.75E-09 | 3.75E-09 | 2.06E-09 | 3.61E-08 | | | |
| 1.85E-09 | 2.48E-08 | 

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2475 | 257255.4 | 4085748.56 | 2.21E-08 | 2.95E-07 | 4.36E-08 | 4.36E-08 | 2.43E-08 | 4.26E-07 | 3.35E-09 | 4.49E-08 | 6.81E-09 | 6.81E-09 | 5.74E-09 | 6.56E-08 | 1.82E-09 | 2.43E-08 | 3.03E-09 | 3.03E-09 | 1.50E-09 | 3.37E-08 |
| 2476 | 257259.68 | 4085747.48 | 2.18E-08 | 2.92E-07 | 4.32E-08 | 4.32E-08 | 2.41E-08 | 4.24E-07 | 3.32E-09 | 4.45E-08 | 6.74E-09 | 6.74E-09 | 5.71E-09 | 6.50E-08 | 1.80E-09 | 2.41E-08 | 3.00E-09 | 3.00E-09 | 1.48E-09 | 3.33E-08 |
| 2472 | 257783.96 | 4085746.41 | 2.16E-08 | 2.88E-07 | 4.27E-08 | 4.27E-08 | 2.38E-08 | 4.19E-07 | 3.28E-09 | 4.39E-08 | 6.66E-09 | 6.66E-09 | 5.66E-09 | 6.42E-08 | 1.78E-09 | 2.38E-08 | 2.96E-09 | 2.96E-09 | 1.47E-09 | 3.29E-08 |
| 2478 | 257808.24 | 4085745.33 | 2.13E-08 | 2.84E-07 | 4.20E-08 | 4.20E-08 | 2.34E-08 | 4.13E-07 | 3.23E-09 | 4.33E-08 | 6.56E-09 | 6.56E-09 | 5.61E-09 | 6.32E-08 | 1.75E-09 | 2.54E-08 | 2.92E-09 | 2.92E-09 | 1.45E-09 | 3.25E-08 |
| 2479 | 257832.35 | 4085744.26 | 2.09E-08 | 2.79E-07 | 4.13E-08 | 4.13E-08 | 2.30E-08 | 4.05E-07 | 3.17E-09 | 4.25E-08 | 6.44E-09 | 6.44E-09 | 5.34E-09 | 6.21E-08 | 1.77E-09 | 2.30E-08 | 2.87E-09 | 2.87E-09 | 1.42E-09 | 3.19E-08 |
| 2480 | 257856.81 | 4085743.18 | 2.05E-08 | 2.74E-07 | 4.06E-08 | 4.06E-08 | 2.26E-08 | 3.96E-07 | 3.12E-09 | 4.18E-08 | 6.55E-09 | 6.33E-09 | 5.48E-09 | 6.10E-08 | 1.69E-09 | 2.26E-08 | 2.82E-09 | 2.82E-09 | 1.39E-09 | 3.13E-08 |
| 2481 | 257881.09 | 4085742.11 | 2.02E-08 | 2.69E-07 | 3.99E-08 | 3.99E-08 | 2.22E-08 | 3.92E-07 | 3.06E-09 | 4.11E-08 | 6.22E-09 | 6.22E-09 | 3.42E-09 | 6.00E-08 | 1.66E-09 | 2.22E-08 | 2.77E-09 | 2.72E-09 | 1.37E-09 | 3.08E-08 |
| 2482 | 257905.37 | 4085741.03 | 1.98E-08 | 2.64E-07 | 3.91E-08 | 3.91E-08 | 2.18E-08 | 3.84E-07 | 3.00E-09 | 4.05E-08 | 6.11E-09 | 6.11E-09 | 3.36E-09 | 5.88E-08 | 1.63E-09 | 2.18E-08 | 2.72E-09 | 2.72E-09 | 1.34E-09 | 3.02E-08 |
| 2483 | 257929.65 | 4085739.96 | 1.94E-08 | 2.59E-07 | 3.83E-08 | 3.83E-08 | 2.13E-08 | 3.76E-07 | 2.94E-09 | 5.94E-08 | 5.97E-09 | 5.97E-09 | 3.28E-09 | 5.78E-08 | 1.60E-09 | 2.15E-08 | 2.88E-09 | 2.86E-09 | 1.32E-09 | 2.95E-08 |
| 2484 | 257953.94 | 4085738.88 | 1.89E-08 | 2.52E-07 | 3.73E-08 | 5.75E-08 | 2.08E-08 | 3.67E-07 | 2.87E-09 | 5.84E-08 | 5.83E-09 | 5.83E-09 | 3.20E-09 | 5.62E-08 | 1.56E-09 | 2.08E-08 | 2.39E-09 | 2.39E-09 | 1.28E-09 | 2.88E-08 |
| 2485 | 257978.22 | 4085737.61 | 1.84E-08 | 2.46E-07 | 3.63E-08 | 5.63E-08 | 2.03E-08 | 3.57E-07 | 2.78E-09 | 5.74E-08 | 5.67E-09 | 5.67E-09 | 3.12E-09 | 5.47E-08 | 1.52E-09 | 2.02E-08 | 2.52E-09 | 2.52E-09 | 1.25E-09 | 2.81E-08 |
| 2486 | 258002.5 | 4085736.73 | 1.79E-08 | 2.39E-07 | 3.53E-08 | 5.55E-08 | 1.97E-08 | 3.47E-07 | 2.71E-09 | 5.63E-08 | 5.51E-09 | 5.51E-09 | 3.03E-09 | 5.31E-08 | 1.47E-09 | 1.97E-08 | 2.45E-09 | 2.45E-09 | 1.21E-09 | 2.73E-08 |
| 2487 | 258026.78 | 4085725.65 | 1.73E-08 | 2.31E-07 | 3.42E-08 | 3.42E-08 | 1.91E-08 | 3.36E-07 | 2.63E-09 | 3.53E-08 | 5.35E-09 | 5.35E-09 | 2.94E-09 | 5.15E-08 | 1.43E-09 | 1.93E-08 | 2.38E-09 | 2.38E-09 | 1.18E-09 | 2.64E-08 |
| 2488 | 258051.06 | 4085734.58 | 1.68E-08 | 2.24E-07 | 3.32E-08 | 5.32E-08 | 1.85E-08 | 3.26E-07 | 2.53E-09 | 3.43E-08 | 5.18E-08 | 5.18E-09 | 2.85E-09 | 4.99E-08 | 1.38E-09 | 1.85E-08 | 2.31E-09 | 2.31E-09 | 1.14E-09 | 2.56E-08 |
| 2489 | 258075.34 | 4085733.5 | 1.63E-08 | 2.17E-07 | 3.22E-08 | 3.22E-08 | 1.79E-08 | 3.16E-07 | 2.47E-09 | 3.31E-08 | 9.01E-09 | 5.02E-09 | 2.76E-09 | 4.84E-08 | 1.34E-09 | 1.78E-08 | 2.23E-09 | 2.23E-09 | 1.11E-09 | 2.48E-08 |
| 2490 | 258099.83 | 4085732.43 | 1.58E-08 | 2.11E-07 | 3.12E-08 | 3.12E-08 | 1.74E-08 | 3.06E-07 | 2.39E-09 | 3.21E-08 | 4.86E-09 | 4.88E-09 | 2.67E-09 | 4.89E-08 | 1.30E-09 | 1.74E-08 | 2.16E-09 | 2.18E-09 | 1.07E-09 | 2.41E-08 |
| 2491 | 258123.91 | 4085731.35 | 1.53E-08 | 2.04E-07 | 1.02E-08 | 3.02E-08 | 1.68E-08 | 2.96E-07 | 2.32E-09 | 3.11E-08 | 4.71E-09 | 4.71E-09 | 2.59E-09 | 4.54E-08 | 1.28E-09 | 1.68E-08 | 2.10E-09 | 2.10E-09 | 1.04E-09 | 2.33E-08 |
| 2492 | 258148.19 | 4085730.28 | 1.48E-08 | 1.97E-07 | 2.92E-08 | 2.92E-08 | 1.83E-08 | 2.87E-07 | 2.24E-09 | 3.01E-08 | 4.56E-09 | 4.58E-09 | 2.51E-09 | 4.39E-08 | 1.22E-09 | 1.83E-08 | 2.03E-09 | 2.03E-09 | 1.00E-09 | 2.25E-08 |
| 2493 | 258172.47 | 4085729.2 | 1.43E-08 | 1.91E-07 | 2.82E-08 | 2.62E-08 | 1.57E-08 | 2.77E-07 | 2.17E-09 | 2.90E-08 | 4.40E-09 | 4.40E-09 | 2.42E-09 | 4.24E-08 | 1.18E-09 | 1.57E-08 | 1.96E-09 | 1.96E-09 | 9.70E-10 | 2.18E-08 |
| 2494 | 258196.75 | 4085778.13 | 1.38E-08 | 1.84E-07 | 2.72E-08 | 2.72E-08 | 1.52E-08 | 2.67E-07 | 2.09E-09 | 2.80E-08 | 4.23E-08 | 4.25E-09 | 2.33E-09 | 4.09E-08 | 1.15E-09 | 1.52E-08 | 1.89E-09 | 1.89E-09 | 9.55E-10 | 2.10E-08 |
| 2495 | 258221.04 | 4085777.09 | 1.32E-08 | 1.77E-07 | 2.62E-08 | 2.62E-08 | 1.46E-08 | 2.37E-07 | 2.01E-09 | 2.69E-08 | 4.08E-09 | 4.08E-09 | 2.25E-09 | 3.94E-08 | 1.09E-09 | 1.46E-08 | 1.82E-09 | 1.82E-09 | 9.00E-10 | 2.02E-08 |
| 2496 | 258245.32 | 4085725.98 | 1.27E-08 | 1.70E-07 | 2.51E-08 | 2.51E-08 | 1.40E-08 | 2.47E-07 | 1.93E-09 | 2.59E-08 | 3.92E-09 | 3.92E-09 | 2.18E-09 | 3.78E-08 | 1.05E-09 | 1.40E-08 | 1.74E-09 | 1.74E-09 | 8.64E-10 | 1.94E-08 |
| 2497 | 258269.6 | 4085724.9 | 1.22E-08 | 1.63E-07 | 2.41E-08 | 2.41E-08 | 1.34E-08 | 2.37E-07 | 1.85E-09 | 2.48E-08 | 3.76E-09 | 3.76E-09 | 2.07E-09 | 3.62E-08 | 1.00E-09 | 1.34E-08 | 1.67E-09 | 1.87E-09 | 8.28E-10 | 1.86E-08 |
| 2498 | 258293.88 | 4085723.82 | 1.17E-08 | 1.58E-07 | 2.31E-08 | 2.31E-08 | 1.29E-08 | 2.27E-07 | 1.77E-09 | 2.57E-08 | 5.60E-09 | 3.60E-09 | 1.98E-09 | 5.47E-08 | 9.62E-10 | 1.28E-08 | 1.60E-09 | 1.60E-09 | 7.93E-10 | 1.78E-08 |
| 2499 | 258318.16 | 4085722.75 | 1.12E-08 | 1.49E-07 | 2.21E-08 | 2.21E-08 | 1.23E-08 | 2.17E-07 | 1.69E-09 | 2.27E-08 | 3.44E-09 | 5.44E-09 | 1.89E-09 | 5.52E-08 | 9.20E-10 | 1.23E-08 | 1.53E-09 | 1.53E-09 | 7.59E-10 | 1.70E-08 |
| 2500 | 258342.44 | 4085721.67 | 1.07E-08 | 1.43E-07 | 2.11E-08 | 2.11E-08 | 1.18E-08 | 2.07E-07 | 1.62E-09 | 2.17E-08 | 3.29E-09 | 3.29E-09 | 1.81E-09 | 3.17E-08 | 8.80E-10 | 1.17E-08 | 1.46E-09 | 1.46E-09 | 7.25E-10 | 1.63E-08 |
| 2501 | 258366.73 | 4085720.6 | 1.02E-08 | 1.36E-07 | 2.01E-08 | 2.01E-08 | 1.12E-08 | 1.98E-07 | 1.55E-09 | 2.07E-08 | 3.15E-09 | 3.15E-09 | 1.73E-09 | 3.03E-08 | 8.40E-10 | 1.12E-08 | 1.40E-09 | 1.40E-09 | 6.93E-10 | 1.56E-08 |
| 2502 | 258391.01 | 4085719.52 | 9.74E-09 | 1.30E-07 | 1.92E-08 | 1.92E-08 | 1.07E-08 | 1.89E-07 | 1.48E-09 | 1.98E-08 | 3.00E-09 | 3.00E-09 | 1.65E-09 | 2.90E-08 | 8.03E-10 | 1.07E-08 | 1.34E-09 | 1.34E-09 | 6.62E-10 | 1.49E-08 |
| 2503 | 257572.16 | 4085846.89 | 1.82E-08 | 2.43E-07 | 3.59E-08 | 3.59E-08 | 2.00E-08 | 3.53E-07 | 2.76E-09 | 3.70E-08 | 5.81E-09 | 5.81E-09 | 3.09E-09 | 5.41E-08 | 1.60E-09 | 2.00E-08 | 2.50E-09 | 2.50E-09 | 1.24E-09 | 2.78E-08 |
| 2504 | 257550.18 | 4085838.86 | 1.85E-08 | 2.47E-07 | 3.66E-08 | 3.66E-08 | 2.04E-08 | 3.59E-07 | 2.81E-09 | 3.77E-08 | 5.71E-09 | 5.71E-09 | 3.14E-09 | 5.51E-08 | 1.33E-09 | 2.04E-08 | 2.54E-09 | 2.54E-09 | 1.26E-09 | 2.83E-08 |
| 2505 | 257528.21 | 4085830.83 | 1.88E-08 | 2.52E-07 | 3.72E-08 | 3.72E-08 | 2.08E-08 | 3.66E-07 | 2.86E-09 | 3.83E-08 | 5.81E-09 | 5.81E-09 | 3.19E-09 | 5.60E-08 | 1.55E-09 | 2.07E-08 | 2.39E-09 | 2.39E-09 | 1.26E-09 | 2.87E-08 |
| 2506 | 257506.23 | 4085822.8 | 1.91E-08 | 2.56E-07 | 3.76E-08 | 3.76E-08 | 2.11E-08 | 3.72E-07 | 2.90E-09 | 5.89E-08 | 5.91E-09 | 5.91E-09 | 3.25E-09 | 5.69E-08 | 1.58E-09 | 2.11E-08 | 2.63E-09 | 2.63E-09 | 1.30E-09 | 2.92E-08 |
| 2507 | 257484.26 | 4085814.78 | 1.94E-08 | 2.60E-07 | 3.84E-08 | 3.84E-08 | 2.14E-08 | 3.77E-07 | 2.95E-09 | 3.95E-08 | 5.99E-09 | 5.99E-09 | 3.30E-09 | 5.78E-08 | 1.60E-09 | 2.14E-08 | 2.67E-09 | 2.67E-09 | 1.32E-09 | 2.96E-08 |
| 2508 | 257462.28 | 4085806.25 | 1.97E-08 | 2.63E-07 | 3.89E-08 | 3.89E-08 | 2.17E-08 | 3.82E-07 | 2.99E-09 | 4.01E-08 | 6.08E-09 | 6.08E-09 | 3.34E-09 | 5.86E-08 | 1.62E-09 | 2.17E-08 | 2.70E-09 | 2.70E-09 | 1.34E-09 | 3.01E-08 |
| 2509 | 257440.31 | 4085798.72 | 2.00E-08 | 2.87E-07 | 3.94E-08 | 5.94E-08 | 2.20E-08 | 3.67E-07 | 3.03E-09 | 4.06E-08 | 6.16E-09 | 6.16E-09 | 3.39E-09 | 5.93E-08 | 1.65E-09 | 2.20E-08 | 2.74E-09 | 2.74E-09 | 1.38E-09 | 3.05E-08 |
| 2510 | 257418.35 | 4085790.69 | 2.02E-08 | 2.70E-07 | 3.99E-08 | 5.99E-08 | 2.23E-08 | 3.92E-07 | 3.07E-09 | 4.11E-08 | 8.23E-09 | 6.23E-09 | 3.43E-09 | 8.01E-08 | 1.66E-09 | 2.22E-08 | 2.77E-09 | 2.77E-09 | 1.37E-09 | 3.08E-08 |
| 2511 | 257396.56 | 4085782.67 | 2.04E-08 | 2.73E-07 | 4.04E-08 | 4.04E-08 | 2.29E-08 | 3.96E-07 | 3.10E-08 | 4.16E-08 | 6.30E-09 | 6.30E-09 | 3.46E-09 | 6.07E-08 | 1.68E-09 | 2.29E-08 | 2.60E-09 | 2.80E-09 | 1.39E-09 | 3.12E-08 |
| 2512 | 257374.38 | 4085774.64 | 2.06E-08 | 2.76E-07 | 4.08E-08 | 4.08E-08 | 2.27E-08 | 4.00E-07 | 3.13E-09 | 4.20E-08 | 6.37E-09 | 6.37E-09 | 3.50E-09 | 8.13E-08 | 1.70E-09 | 2.27E-08 | 2.83E-09 | 2.83E-09 | 1.40E-09 | 3.15E-08 |
| 2513 | 257352.41 | 4085766.61 | 2.08E-08 | 2.78E-07 | 4.11E-08 | 4.11E-08 | 2.29E-08 | 4.04E-07 | 3.16E-09 | 4.24E-08 | 6.42E-09 | 6.42E-09 | 3.53E-09 | 8.19E-08 | 1.72E-09 | 2.29E-08 | 2.86E-09 | 2.86E-09 | 1.41E-09 | 3.18E-08 |
| 2514 | 257350.43 | 4085758.58 | 2.10E-08 | 2.80E-07 | 4.15E-08 | 4.15E-08 | 2.31E-08 | 4.07E-07 | 3.16E-09 | 4.27E-08 | 6.48E-09 | 6.48E-09 | 3.56E-09 | 6.24E-08 | 1.75E-09 | 2.31E-08 | 2.88E-09 | 2.88E-09 | 1.43E-09 | 3.20E-08 |
| 2515 | 257308.46 | 4085750.56 | 2.11E-08 | 2.82E-07 | 4.17E-08 | 4.17E-08 | 2.32E-08 | 4.10E-07 | 3.20E-09 | 4.29E-08 | 6.51E-09 | 6.51E-09 | 3.58E-09 | 6.27E-08 | 1.74E-09 | 2.32E-08 | 2.90E-09 | 2.90E-09 | 1.43E-09 | 3.22E-08 |
| 2516 | 257286.48 | 4085742.53 | 2.12E-08 | 2.83E-07 | 4.16E-08 | 4.18E-08 | 2.33E-08 | 4.11E-07 | 3.21E-09 | 4.51E-08 | 6.33E-09 | 6.53E-09 | 5.59E-09 | 6.29E-08 | 1.74E-09 | 2.33E-08 | 2.90E-09 | 2.90E-09 | 1.44E-09 | 3.23E-08 |
| 2517 | 257264.51 | 4085734.5 | 2.11E-08 | 2.82E-07 | 4.18E-08 | 4.18E-08 | 2.33E-08 | 4.10E-07 | 3.21E-09 | 4.30E-08 | 6.52E-09 | 6.52E-09 | 5.59E-09 | 6.78E-08 | 1.74E-09 | 2.33E-08 | 2.90E-09 | 2.90E-09 | 1.44E-09 | 3.23E-08 |
| 2518 | 257742.53 | 4085726.47 | 2.10E-08 | 2.81E-07 | 4.16E-08 | 4.16E-08 | 2.32E-08 | 4.09E-07 | 3.19E-09 | 4.28E-08 | 8.49E-09 | 6.49E-09 | 3.57E-09 | 6.28E-08 | 1.73E-09 | 2.32E-08 | 2.89E-09 | 2.89E-09 | 1.43E-09 | 3.21E-08 |
| 2519 | 257220.56 | 4085718.45 | 2.09E-08 | 2.80E-07 | 4.14E-08 | 4.14E-08 | 2.31E-08 | 4.06E-07 | 3.16E-09 | 4.26E-08 | 6.46E-09 | 6.46E-09 | 3.55E-09 | 6.22E-08 | 1.72E-09 | 2.30E-08 | 2.87E-09 | 2.67E-09 | 1.42E-09 | 3.19E-08 |
| 2520 | 157198.58 | 4085710.42 | 2.07E-08 | 2.77E-07 | 4.10E-08 | 4.10E-08 | 2.29E-08 | 4.03E-07 | 3.15E-09 | 4.22E-08 | 6.40E-09 | 6.40E-09 | 3.52E-09 | 6.17E-08 | 1.71E-09 | 2.28E-08 | 2.85E-09 | 2.85E-09 | 1.41E-09 | 3.17E-08 |
| 2521 | 257176.61 | 4085702.39 | 2.05E-08 | 2.74E-07 | 4.05E-08 | 4.05E-08 | 2.26E-08 | 3.98E-07 | 3.11E-09 | 4.17E-08 | 6.33E-09 | 6.33E-09 | 3.48E-09 | 6.10E-08 | 1.69E-09 | 2.26E-08 | 2.82E-09 | 2.82E-09 | 1.39E-09 | 5.13E-08 |
| 2522 | 257154.65 | 4085694.56 | 2.02E-08 | 2.70E-07 | 4.00E-08 | 4.00E-08 | 2.23E-08 | 5.95E-07 | 3.07E-09 | 4.12E-08 | 6.25E-09 | 6.25E-09 | 3.43E-09 | 6.02E-08 | 1.67E-09 | 2.23E-08 | 2.78E-09 | 2.78E-09 | 1.38E-09 | 3.09E-08 |
| 2523 | 257132.66 | 4085686.54 | 2.00E-08 | 2.67E-07 | 3.95E-08 | 5.95E-08 | 2.20E-08 | 5.88E-07 | 3.01E-09 | 4.06E-08 | 6.16E-09 | 6.16E-09 | 5.39E-09 | 5.94E-08 | 1.65E-09 | 2.20E-08 | 2.74E-09 | 2.74E-09 | 1.36E-09 | 3.05E-08 |
| 2524 | 257110.68 | 4085678.51 | 1.97E-08 | 2.63E-07 | 5.89E-08 | 5.89E-08 | 2.17E-08 | 5.82E-07 | 2.99E-09 | 4.01E-08 | 6.07E-09 | 6.07E-09 | 3.34E-09 | 5.85E-08 | 1.62E-09 | 2.17E-08 | 2.70E-09 | 2.70E-09 | 1.34E-09 | 3.00E-08 |
| 2525 | 257078.92 | 4085649.03 | 1.96E-08 | 2.62E-07 | 5.87E-08 | 5.87E-08 | 2.16E-08 | 5.80E-07 | 2.97E-09 | 3.99E-08 | 6.05E-09 | 6.05E-09 | 3.32E-09 | 5.83E-08 | 1.62E-09 | 2.16E-08 | 2.69E-09 | 2.69E-09 | 1.33E-09 | 2.99E-08 |
| 2526 | 157069.14 | 4085627.78 | 1.97E-08 | 2.64E-07 | 5.90E-08 | 3.90E-08 | 2.18E-08 | 5.83E-07 | 3.00E-09 | 4.02E-08 | 6.09E-09 | 6.09E-09 | 3.35E-09 | 5.87E-08 | 1.83E-09 | 2.17E-08 | 2.71E-09 | 2.71E-09 | 1.34E-09 | 5.01E-08 |
| 1527 | 257059.35 | 4085606.53 | 1.98E-08 | 2.65E-07 | 3.91E-08 | 3.91E-08 | 2.16E-08 | 5.84E-07 | 5.01E-09 | 4.03E-08 | 6.11E-09 | 6.11E-09 | 3.36E-09 | 5.89E-08 | 1.63E-09 | 2.18E-08 | 2.72E-09 | 2.72E-09 | 1.35E-09 | 5.02E-08 |
| 2528 | 257049.57 | 4085585.26 | 1.98E-08 | 2.64E-07 | 3.90E-08 | 3.90E-08 | 2.16E-08 | 5.84E-07 | 3.00E-09 | 4.02E-08 | 6.10E-09 | 6.10E-09 | 3.35E-09 | 5.87E-08 | 1.63E-09 | 2.18E-08 | 2.71E-09 | 2.71E-09 | 1.54E-09 | 3.01E-08 |
| 2529 | 257039.78 | 4085564.03 | 1.86E-08 | 2.62E-07 | 3.87E-08 | 3.87E-08 | 2.16E-08 | 3.80E-07 | 2.97E-09 | 3.99E-08 | 6.04E-09 | 6.04E-09 | 3.32E-09 | 5.82E-08 | 1.61E-09 | 2.16E-08 | 2.69E-09 | 2.69E-09 | 1.33E-09 | 2.99E-08 |
| 2530 | 257029.99 | 4085542.76 | 1.93E-08 | 2.37E-07 | 3.81E-08 | 3.81E-08 | 2.12E-08 | 3.74E-07 | 2.93E-09 | 3.92E-08 | 5.95E-09 | 5.95E-09 | 3.27E-09 | 5.73E-08 | 1.59E-09 | 2.12E-08 | 2.65E-09 | 2.65E-09 | 1.31E-09 | 2.94E-08 |
| 2531 | 257020.21 | 4085521.53 | 1.88E-08 | 2.51E-07 | 3.72E-08 | 3.72E-08 | 2.07E-08 | 3.85E-07 | 2.86E-09 | 3.83E-08 | 5.81E-09 | 5.81E-09 | 3.19E-09 | 5.60E-08 | 1.55E-09 | 2.07E-08 | 2.58E-09 | 2.58E-09 | 1.26E-09 | 2.87E-08 |
| 2532 | 257010.42 | 4085500.26 | 1.82E-08 | 2.43E-07 | 3.60E-08 | 3.60E-08 | 2.01E-08 | 3.54E-07 | 2.77E-09 | 3.71E-08 | 5.62E-09 | 5.62E-09 | 3.09E-09 | 5.42E-08 | 1.50E-09 | 2.01E-08 | 2.50E-09 | 2.50E-09 | 1.24E-09 | 2.78E-08 |
| 2533 | 257000.64 | 4085478.03 | 1.75E-08 | 2.34E-07 | 3.46E-08 | 3.46E-08 | 1.93E-08 | 3.39E-07 | 2.65E-09 | 3.56E-08 | 5.40E-09 | 5.40E-09 | 2.97E-09 | 5.20E-08 | 1.44E-09 | 1.91E-08 | 2.40E-09 | 2.40E-09 | 1.19E-09 | 2.67E-08 |
| 2534 | 256990.85 | 4085457.78 | 1.66E-08 | 2.22E-07 | 3.29E-08 | 5.29E-08 | 1.83E-08 | 5.23E-07 | 2.52E-09 | 3.38E-08 | 5.13E-09 | 5.13E-08 | 2.82E-09 | 4.94E-08 | 1.37E-09 | 1.83E-08 | 2.28E-09 | 2.28E-09 | 1.15E-09 | 2.34E-08 |
| 2535 | 256981.07 | 4085436.52 | 1.37E-08 | 2.09E-07 | 3.10E-08 | 5.10E-08 | 1.75E-08 | 3.04E-07 | 2.38E-09 | 3.19E-08 | 4.84E-09 | 4.84E-08 | 2.66E-09 | 4.66E-08 | 1.29E-09 | 1.73E-08 | 2.15E-09 | 2.15E-09 | 1.07E-08 | 2.39E-08 |
| 2536 | 256971.28 | 4085415.27 | 1.47E-08 | 1.66E-07 | 2.90E-08 | 2.90E-08 | 1.62E-08 | 2.85E-07 | 2.23E-09 | 2.98E-08 | 4.32E-09 | 4.52E-09 | 2.49E-09 | 4.36E-08 | 1.21E-09 | 1.61E-08 | 2.01E-09 | 2.01E-09 | 9.66E-10 | 2.24E-08 |
| 2537 | 258961.5 | 4085394.02 | 1.36E-08 | 1.82E-07 | 2.69E-08 | 2.69E-08 | 1.50E-08 | 2.65E-07 | 2.07E-09 | 2.77E-08 | 4.20E-09 | 4.20E-09 | 2.31E-09 | 4.05E-08 | 1.12E-09 | 1.50E-08 | 1.87E-09 | 1.87E-09 | 9.26E-10 | 2.08E-08 |
| 2536 | 256951.71 | 4085377.77 | 1.26E-08 | 1.68E-07 | 2.49E-08 | 2.49E-08 | 1.39E-08 | 2.45E-07 | 1.91E-09 | 2.57E-08 | 3.89E-09 | 3.69E-09 | 2.14E-09 | 5.75E-08 | 1.04E-09 | 1.39E-08 | 1.73E-09 | 1.73E-09 | 8.57E-10 | 1.92E-08 |
| 2539 | 256841.92 | 4085351.52 | 1.17E-08 | 1.58E-07 | 2.30E-08 | 2.30E-08 | 1.28E-08 | 2.26E-07 | 1.77E-09 | 2.37E-08 | 3.60E-09 | 3.60E-09 | 1.98E-09 | 5.46E-08 | 8.68E-10 | 1.19E-08 | 1.48E-09 | 1.48E-09 | 7.92E-10 | 1.78E-08 |
| 2540 | 258932.14 | 4085330.27 | 1.08E-08 | 1.44E-07 | 2.13E-08 | 2.15E-08 | 1.19E-08 | 2.09E-07 | 1.64E-09 | 2.19E-08 | 3.33E-09 | 3.33E-09 | 1.85E-09 | 5.20E-08 | 8.24E-10 | 1.10E-08 | 1.37E-09 | 1.37E-09 | 7.32E-10 | 1.64E-08 |
| 2541 | 156922.35 | 4085309.02 | 1.00E-08 | 1.34E-07 | 1.98E-08 | 1.98E-08 | 1.10E-08 | 1.94E-07 | 1.52E-08 | 2.03E-08 | 3.08E-09 | 3.08E-09 | 1.70E-09 | 2.97E-08 | 8.24E-10 | 1.10E-08 | 1.37E-09 | 1.37E-09 | 6.79E-10 | 1.55E-08 |
| 2542 | 256912.37 | 4085287.77 | 9.33E-09 | 1.25E-07 | 1.84E-08 | 1.84E-08 | 1.03E-08 | 1.81E-07 | 1.42E-09 | 1.90E-08 | 2.88E-09 | 2.88E-09 | 1.58E-09 | 2.77E-08 | 7.69E-10 | 1.03E-08 | 1.28E-08 | 1.26E-09 | 6.54E-10 | 1.42E-08 |
| 2543 | 258902.78 | 4085266.52 | 8.77E-09 | 1.17E-07 | 1.73E-08 | 1.73E-08 | 9.66E-09 | 1.70E-07 | 1.33E-09 | 1.78E-08 | 2.71E-09 | 2.71E-09 | 1.49E-09 | 2.81E-08 | 7.23E-10 | 9.63E-09 | 1.20E-09 | 1.20E-09 | 5.96E-10 | 1.34E-08 |
| 2544 | 256893 | 4085245.27 | 8.30E-09 | 1.11E-07 | 1.64E-08 | 1.64E-08 | 9.14E-09 | 1.61E-07 | 1.76E-09 | 1.69E-08 | 2.56E-09 | 2.56E-09 | 1.41E-09 | 2.47E-08 | 6.84E-10 | 9.14E-09 | 1.14E-09 | 1.14E-09 | 5.64E-10 | 1.27E-08 |
| 2545 | 256883.21 | 4085224.02 | 7.91E-09 | 1.06E-07 | 1.56E-08 | 1.56E-08 | 6.71E-09 | 1.54E-07 | 1.70E-09 | 1.61E-08 | 2.44E-09 | 2.44E-09 | 1.34E-09 | 2.35E-08 | 6.52E-10 | 6.71E-09 | 1.09E-09 | 1.09E-09 | 5.37E-10 | 1.21E-08 |
| 2546 | 256873.43 | 4085202.77 | 7.58E-09 | 1.01E-07 | 1.50E-08 | 1.50E-08 | 8.35E-09 | 1.47E-07 | 1.15E-09 | 1.34E-08 | 2.34E-09 | 2.34E-09 | 1.78E-09 | 2.25E-08 | 6.25E-10 | 8.35E-09 | 1.04E-09 | 1.04E-09 | 5.15E-10 | 1.16E-08 |
| 2547 | 257594.13 | 4085854.91 | 1.78E-08 | 2.36E-07 | 3.53E-08 | 5.53E-08 | 1.97E-08 | 5.46E-07 | 2.71E-09 | 5.65E-08 | 5.31E-09 | 5.51E-08 | 5.03E-08 | 5.31E-08 | 1.47E-09 | 1.97E-08 | 2.45E-09 | 2.45E-09 | 1.21E-09 | 2.77E-08 |
| 2548 | 257616.41 | 4085853.84 | 1.78E-08 | 2.38E-07 | 3.52E-08 | 5.32E-08 | 1.96E-08 | 5.46E-07 | 2.71E-09 | 3.63E-08 | 5.50E-09 | 5.50E-08 | 3.02E-09 | 5.30E-08 | 1.47E-09 | 1.96E-08 | 2.45E-09 | 2.45E-09 | 1.21E-09 | 2.77E-08 |
| 2549 | 257642.7 | 4085852.76 | 1.78E-08 | 2.38E-07 | 3.51E-08 | 3.31E-08 | 1.96E-08 | 3.45E-07 | 2.70E-09 | 3.62E-08 | 5.49E-09 | 5.49E-09 | 3.01E-09 | 5.29E-08 | 1.47E-09 | 1.98E-08 | 2.44E-09 | 2.44E-09 | 1.21E-09 | 2.71E-08 |
| 2550 | 297666.98 | 4085851.69 | 1.77E-08 | 2.37E-07 | 3.50E-08 | 3.50E-08 | 1.95E-08 | 3.44E-07 | 2.69E-09 | 3.60E-08 | 5.46E-09 | 5.46E-09 | 3.00E-09 | 5.27E-08 | 1.46E-09 | 1.95E-08 | 2.43E-09 | 2.43E-09 | 1.20E-09 | 2.70E-08 |
| 2551 | 257691.28 | 4085850.61 | 1.76E-08 | 2.35E-07 | 3.48E-08 | 3.48E-08 | 1.94E-08 | 3.42E-07 | 2.67E-09 | 3.58E-08 | 5.43E-09 | 5.43E-09 | 2.99E-09 | 5.23E-08 | 1.45E-09 | 1.94E-08 | 2.42E-09 | 2.42E-09 | 1.20E-09 | 2.69E-08 |
| 2552 | 157715.34 | 4085849.34 | 1.75E-08 | 2.33E-07 | 3.45E-08 | 3.45E-08 | 1.92E-08 | 3.39E-07 | 2.65E-09 | 3.35E-08 | 5.39E-09 | 5.39E-09 | 2.96E-09 | 5.19E-08 | 1.44E-09 | 1.92E-08 | 2.40E-09 | 2.40E-09 | 1.19E-09 | 2.66E-08 |
| 2553 | 157739.82 | 4085848.46 | 1.73E-08 | 2.31E-07 | 3.41E-08 | 3.41E-08 | 1.90E-08 | 3.35E-07 | 2.62E-09 | 3.51E-08 | 5.33E-09 | 5.33E-09 | 2.95E-09 | 5.14E-08 | 1.42E-09 | 1.90E-08 | 2.37E-09 | 2.37E-09 | 1.17E-09 | 2.64E-08 |
| 2554 | 257764.11 | 4085847.39 | 1.70E-08 | 2.27E-07 | 3.33E-08 | 3.35E-08 | 1.87E-08 | 3.78E-07 | 2.58E-09 | 3.45E-08 | 5.24E-09 | 5.24E-08 | 2.88E-09 | 5.05E-08 | 1.40E-09 | 1.87E-08 | 2.33E-09 | 2.33E-09 | 1.13E-09 | 2.59E-08 |
| 2555 | 257788.39 | 4085846.31 | 1.67E-08 | 2.23E-07 | 3.50E-08 | 3.30E-08 | 1.84E-08 | 3.24E-07 | 2.54E-09 | 3.40E-08 | 5.16E-09 | 5.16E-08 | 2.83E-09 | 4.97E-08 | 1.38E-09 | 1.84E-08 | 2.29E-09 | 2.78E-09 | 1.14E-09 | 2.55E-08 |
| 2596 | 257812.67 | 4085845.24 | 1.64E-08 | 2.19E-07 | 3.25E-08 | 3.25E-08 | 1.81E-08 | 3.19E-07 | 2.49E-09 | 3.34E-08 | 5.07E-09 | 5.07E-08 | 2.79E-09 | 4.89E-08 | 1.35E-09 | 1.81E-08 | 2.26E-09 | 2.26E-09 | 1.12E-09 | 2.51E-08 |
| 2557 | 257836.95 | 4085844.16 | 1.61E-08 | 2.15E-07 | 3.19E-08 | 3.19E-08 | 1.78E-08 | 3.13E-07 | 2.49E-09 | 3.28E-08 | 4.98E-09 | 4.98E-09 | 2.74E-08 | 4.80E-08 | 1.33E-09 | 1.78E-08 | 2.21E-09 | 2.21E-09 | 1.10E-09 | 2.46E-08 |
| 2558 | 257861.23 | 4085843.03 | 1.56E-08 | 2.11E-07 | 3.12E-08 | 5.12E-08 | 1.74E-08 | 3.07E-07 | 2.40E-09 | 3.22E-08 | 4.88E-09 | 4.88E-09 | 2.68E-08 | 4.70E-08 | 1.30E-09 | 1.74E-08 | 2.17E-09 | 2.17E-09 | 1.07E-09 | 2.41E-08 |
| 2559 | 257885.51 | 4085842.01 | 1.55E-08 | 2.07E-07 | 3.06E-08 | 3.06E-08 | 1.71E-08 | 3.00E-07 | 2.35E-09 | 3.15E-08 | 4.78E-09 | 4.78E-08 | 2.63E-09 | 4.60E-08 | 1.28E-09 | 1.70E-08 | 2.12E-09 | 2.12E-09 | 1.05E-09 | 2.36E-08 |
| 2560 | 257909.8 | 4085840.93 | 1.51E-08 | 2.02E-07 | 2.99E-08 | 2.99E-08 | 1.67E-08 | 2.94E-07 | 2.30E-09 | 3.08E-08 | 4.67E-09 | 4.67E-09 | 2.57E-09 | 4.50E-08 | 1.15E-09 | 1.67E-08 | 2.08E-09 | 2.08E-09 | 1.03E-08 | 2.31E-08 |
| 2581 | 257834.08 | 4085839.86 | 1.48E-08 | 1.97E-07 | 2.92E-08 | 2.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2357 | 258115.06 | 4085531.55 | 2.95E-08 | 3.94E-07 | 5.83E-08 | 3.83E-08 | 3.25E-08 | 5.72E-07 | 4.47E-09 | 6.00E-08 | 9.10E-09 | 9.10E-09 | 5.00E-09 | 8.76E-08 | 2.43E-09 | 3.25E-08 | 4.05E-09 | 4.05E-09 | 2.00E-09 | 4.50E-08 | | | | | | | | | | | | | |
| 2358 | 258139.34 | 4085530.47 | 2.82E-08 | 3.76E-07 | 3.57E-08 | 3.57E-08 | 3.10E-08 | 5.47E-07 | 4.28E-09 | 3.73E-08 | 8.70E-09 | 8.70E-09 | 4.78E-09 | 6.38E-06 | 2.32E-09 | 3.10E-08 | 3.87E-09 | 3.67E-09 | 1.91E-09 | 4.30E-08 | | | | | | | | | | | | | |
| 2359 | 258163.62 | 4085529.4 | 2.69E-08 | 3.59E-07 | 3.32E-08 | 5.32E-08 | 2.96E-08 | 5.22E-07 | 4.08E-09 | 5.48E-08 | 6.30E-09 | 8.30E-09 | 4.36E-09 | 6.00E-08 | 2.22E-09 | 2.96E-08 | 3.69E-09 | 3.69E-09 | 1.83E-09 | 4.11E-08 | | | | | | | | | | | | | |
| 2360 | 258187.9 | 4085528.32 | 2.57E-08 | 3.43E-07 | 3.07E-08 | 5.07E-08 | 2.83E-08 | 4.96E-07 | 3.90E-09 | 3.22E-08 | 7.92E-09 | 7.92E-09 | 4.35E-09 | 7.63E-08 | 2.12E-09 | 2.83E-08 | 3.32E-09 | 3.32E-08 | 1.74E-09 | 3.92E-08 | | | | | | | | | | | | | |
| 2361 | 258212.19 | 4085527.25 | 2.44E-08 | 3.27E-07 | 4.83E-06 | 4.83E-08 | 2.69E-08 | 4.75E-07 | 3.71E-09 | 4.98E-08 | 7.54E-09 | 7.54E-09 | 4.15E-09 | 7.27E-08 | 2.02E-09 | 2.69E-08 | 3.36E-09 | 3.36E-09 | 1.66E-09 | 3.73E-08 | | | | | | | | | | | | | |
| 2362 | 258236.47 | 4085526.17 | 2.32E-08 | 3.10E-07 | 4.59E-08 | 4.59E-08 | 2.56E-08 | 4.51E-07 | 3.53E-09 | 4.73E-08 | 7.17E-09 | 7.17E-09 | 3.94E-09 | 6.91E-08 | 1.92E-09 | 2.56E-08 | 3.19E-09 | 3.19E-09 | 1.58E-09 | 3.55E-08 | | | | | | | | | | | | | |
| 2363 | 258260.75 | 4085525.1 | 2.20E-08 | 2.94E-07 | 4.35E-08 | 4.35E-08 | 2.43E-08 | 4.27E-07 | 3.34E-09 | 4.48E-08 | 6.79E-09 | 6.79E-09 | 3.72E-09 | 6.55E-08 | 1.81E-09 | 2.42E-08 | 3.02E-09 | 3.02E-09 | 1.50E-09 | 3.36E-08 | | | | | | | | | | | | | |
| 2364 | 258285.03 | 4085524.02 | 2.08E-08 | 2.78E-07 | 4.11E-08 | 4.11E-08 | 2.29E-08 | 4.04E-07 | 3.16E-09 | 4.23E-08 | 6.42E-09 | 6.42E-09 | 3.53E-09 | 6.16E-08 | 1.71E-09 | 2.29E-08 | 2.85E-09 | 2.83E-09 | 1.41E-09 | 3.17E-08 | | | | | | | | | | | | | |
| 2365 | 258309.31 | 4085522.94 | 1.96E-08 | 2.62E-07 | 3.87E-08 | 3.87E-08 | 2.16E-08 | 3.81E-07 | 2.98E-09 | 3.99E-08 | 6.05E-09 | 6.05E-09 | 3.33E-09 | 3.83E-08 | 1.62E-09 | 2.16E-08 | 2.69E-09 | 2.69E-09 | 1.33E-09 | 2.99E-08 | | | | | | | | | | | | | |
| 2366 | 258333.6 | 4085521.87 | 1.84E-08 | 2.46E-07 | 3.65E-08 | 3.65E-08 | 2.03E-08 | 3.58E-07 | 2.80E-09 | 3.75E-08 | 5.69E-09 | 5.69E-09 | 3.13E-09 | 5.48E-08 | 1.52E-09 | 2.03E-08 | 2.53E-09 | 2.53E-09 | 1.23E-09 | 2.81E-08 | | | | | | | | | | | | | |
| 2367 | 258357.88 | 4085520.79 | 1.73E-08 | 2.32E-07 | 3.43E-08 | 3.43E-08 | 1.91E-08 | 3.37E-07 | 2.63E-09 | 3.53E-08 | 5.35E-09 | 5.35E-09 | 2.94E-09 | 5.16E-08 | 1.43E-09 | 1.91E-08 | 2.36E-09 | 2.36E-09 | 1.18E-09 | 2.65E-08 | | | | | | | | | | | | | |
| 2368 | 258382.16 | 4085519.72 | 1.63E-08 | 2.18E-07 | 3.22E-08 | 3.22E-08 | 1.80E-08 | 3.16E-07 | 2.47E-09 | 3.32E-08 | 5.03E-09 | 5.03E-09 | 2.77E-09 | 4.85E-08 | 1.34E-09 | 1.79E-08 | 2.24E-09 | 2.24E-09 | 1.11E-09 | 2.49E-08 | | | | | | | | | | | | | |
| 2369 | 257362.72 | 4085646.87 | 3.01E-08 | 4.02E-07 | 5.95E-08 | 3.95E-08 | 3.32E-08 | 5.84E-07 | 4.57E-09 | 6.13E-08 | 9.29E-09 | 9.29E-09 | 5.11E-09 | 6.93E-08 | 2.48E-09 | 3.32E-08 | 4.13E-09 | 4.13E-09 | 2.03E-09 | 4.59E-08 | | | | | | | | | | | | | |
| 2370 | 257540.16 | 4085638.63 | 3.07E-08 | 4.10E-07 | 6.06E-08 | 6.06E-08 | 3.38E-08 | 5.95E-07 | 4.65E-09 | 6.24E-08 | 9.46E-09 | 9.46E-09 | 5.20E-09 | 9.12E-08 | 2.53E-09 | 3.38E-08 | 4.21E-09 | 4.21E-09 | 2.08E-09 | 4.68E-08 | | | | | | | | | | | | | |
| 2371 | 257517.59 | 4085630.38 | 3.11E-08 | 4.16E-07 | 6.16E-08 | 6.16E-08 | 3.43E-08 | 6.05E-07 | 4.73E-09 | 6.34E-08 | 9.61E-09 | 9.61E-09 | 5.28E-09 | 9.26E-08 | 2.37E-09 | 3.43E-08 | 4.26E-09 | 4.28E-09 | 2.12E-09 | 4.75E-08 | | | | | | | | | | | | | |
| 2372 | 257495.03 | 4085622.14 | 3.16E-08 | 4.22E-07 | 6.24E-08 | 6.24E-08 | 3.48E-08 | 6.13E-07 | 4.79E-09 | 6.42E-08 | 9.74E-09 | 9.74E-09 | 5.35E-09 | 9.38E-08 | 2.60E-09 | 3.46E-08 | 4.33E-09 | 4.33E-09 | 2.14E-09 | 4.62E-08 | | | | | | | | | | | | | |
| 2373 | 257472.47 | 4085613.9 | 3.19E-08 | 4.26E-07 | 6.30E-08 | 6.30E-08 | 3.51E-08 | 6.19E-07 | 4.84E-09 | 6.49E-08 | 9.84E-09 | 9.84E-09 | 5.41E-09 | 9.48E-08 | 2.63E-09 | 3.51E-08 | 4.36E-09 | 4.36E-09 | 2.17E-09 | 4.67E-08 | | | | | | | | | | | | | |
| 2374 | 257449.9 | 4085605.65 | 3.22E-08 | 4.29E-07 | 6.35E-08 | 6.35E-08 | 3.54E-08 | 6.24E-07 | 4.68E-09 | 6.54E-08 | 9.92E-09 | 9.92E-09 | 5.45E-09 | 9.56E-08 | 2.65E-09 | 3.54E-08 | 4.41E-09 | 4.41E-09 | 2.18E-09 | 4.91E-08 | | | | | | | | | | | | | |
| 2375 | 257427.34 | 4085597.41 | 3.24E-08 | 4.33E-07 | 6.41E-08 | 6.41E-08 | 3.57E-08 | 6.30E-07 | 4.92E-09 | 6.60E-08 | 1.00E-08 | 1.00E-08 | 5.50E-09 | 9.64E-08 | 2.67E-09 | 3.57E-08 | 4.45E-09 | 4.45E-09 | 2.20E-09 | 4.95E-08 | | | | | | | | | | | | | |
| 2576 | 257404.77 | 4085589.17 | 3.25E-08 | 4.35E-07 | 6.43E-08 | 6.43E-08 | 3.59E-08 | 6.32E-07 | 4.94E-09 | 6.62E-08 | 1.00E-08 | 1.00E-08 | 5.52E-09 | 9.68E-08 | 2.68E-09 | 3.58E-08 | 4.47E-09 | 4.47E-09 | 2.21E-09 | 4.97E-08 | | | | | | | | | | | | | |
| 2377 | 257382.21 | 4085580.93 | 3.25E-08 | 4.54E-07 | 6.43E-08 | 6.43E-08 | 3.38E-08 | 6.31E-07 | 4.94E-09 | 6.62E-08 | 1.00E-08 | 1.00E-08 | 5.52E-09 | 9.67E-08 | 2.66E-09 | 3.56E-08 | 4.46E-09 | 4.46E-09 | 2.21E-09 | 4.96E-08 | | | | | | | | | | | | | |
| 2378 | 257359.65 | 4085572.68 | 3.23E-08 | 4.32E-07 | 6.39E-08 | 6.39E-08 | 3.56E-08 | 6.28E-07 | 4.91E-09 | 6.58E-08 | 9.98E-09 | 9.96E-09 | 5.49E-09 | 9.62E-08 | 2.67E-09 | 3.56E-08 | 4.44E-09 | 4.44E-09 | 2.20E-09 | 4.93E-08 | | | | | | | | | | | | | |
| 2379 | 257237.08 | 4085584.44 | 3.20E-08 | 4.27E-07 | 6.32E-08 | 6.32E-08 | 3.52E-08 | 6.21E-07 | 4.85E-09 | 6.51E-08 | 9.67E-09 | 9.87E-09 | 5.42E-09 | 9.31E-08 | 2.84E-09 | 3.32E-08 | 4.39E-09 | 4.39E-09 | 2.17E-09 | 4.66E-08 | | | | | | | | | | | | | |
| 2380 | 257314.52 | 4085556.2 | 3.14E-08 | 4.20E-07 | 6.21E-08 | 6.21E-08 | 3.46E-08 | 6.10E-07 | 4.77E-09 | 6.40E-08 | 9.70E-09 | 9.70E-09 | 5.33E-09 | 9.35E-08 | 2.59E-09 | 3.46E-08 | 4.32E-09 | 4.32E-09 | 2.14E-09 | 4.80E-08 | | | | | | | | | | | | | |
| 2381 | 257291.96 | 4085547.96 | 3.08E-08 | 4.11E-07 | 6.08E-08 | 6.08E-08 | 3.39E-08 | 5.98E-07 | 4.67E-09 | 6.26E-08 | 9.50E-09 | 9.50E-09 | 5.22E-09 | 9.15E-08 | 2.54E-09 | 3.39E-08 | 4.23E-09 | 4.23E-09 | 2.09E-09 | 4.70E-08 | | | | | | | | | | | | | |
| 2382 | 257269.39 | 4085539.71 | 3.00E-08 | 4.01E-07 | 5.93E-08 | 5.93E-08 | 3.31E-08 | 5.83E-07 | 4.56E-09 | 6.11E-08 | 9.26E-09 | 9.26E-09 | 5.09E-09 | 8.91E-08 | 2.47E-09 | 3.31E-08 | 4.12E-09 | 4.12E-09 | 2.04E-09 | 4.58E-08 | | | | | | | | | | | | | |
| 2383 | 257246.83 | 4085531.47 | 2.92E-08 | 3.90E-07 | 5.77E-08 | 5.77E-08 | 3.22E-08 | 5.87E-07 | 4.43E-09 | 5.94E-08 | 9.01E-09 | 9.01E-09 | 4.95E-09 | 8.68E-08 | 2.41E-09 | 3.21E-08 | 4.01E-09 | 4.01E-09 | 1.98E-09 | 4.46E-08 | | | | | | | | | | | | | |
| 2384 | 257214.22 | 4085501.41 | 2.85E-08 | 3.81E-07 | 5.63E-08 | 5.83E-08 | 3.14E-08 | 5.53E-07 | 4.33E-09 | 5.80E-08 | 6.80E-09 | 8.80E-09 | 4.84E-09 | 8.48E-08 | 2.35E-09 | 3.14E-08 | 3.91E-09 | 3.91E-09 | 1.94E-09 | 4.36E-08 | | | | | | | | | | | | | |
| 2385 | 257204.17 | 4085479.59 | 2.85E-08 | 3.81E-07 | 5.64E-08 | 5.64E-08 | 3.14E-08 | 5.54E-07 | 4.33E-09 | 5.61E-08 | 8.80E-09 | 6.80E-09 | 4.84E-09 | 8.48E-08 | 2.35E-09 | 3.14E-08 | 3.92E-09 | 3.92E-09 | 1.94E-09 | 4.35E-08 | | | | | | | | | | | | | |
| 2386 | 257194.12 | 4085437.72 | 2.83E-08 | 3.79E-07 | 5.60E-08 | 5.60E-08 | 3.12E-08 | 5.50E-07 | 4.30E-09 | 5.72E-08 | 8.74E-09 | 6.74E-09 | 4.81E-09 | 6.43E-08 | 2.34E-09 | 3.12E-08 | 3.89E-09 | 3.89E-09 | 1.93E-09 | 4.32E-08 | | | | | | | | | | | | | |
| 2387 | 257184.08 | 4085433.93 | 2.79E-08 | 3.73E-07 | 5.51E-08 | 5.51E-08 | 3.07E-08 | 3.41E-07 | 4.23E-09 | 5.68E-08 | 6.61E-09 | 6.81E-09 | 4.73E-09 | 6.29E-08 | 2.30E-09 | 3.07E-08 | 3.83E-09 | 3.83E-09 | 1.90E-09 | 4.26E-08 | | | | | | | | | | | | | |
| 2388 | 257174.03 | 4085414.13 | 2.72E-08 | 3.63E-07 | 5.37E-08 | 5.37E-08 | 2.99E-08 | 5.27E-07 | 4.12E-09 | 5.53E-08 | 6.36E-09 | 8.38E-09 | 4.61E-09 | 6.07E-08 | 2.24E-09 | 2.99E-08 | 3.73E-09 | 3.73E-09 | 1.85E-09 | 4.14E-08 | | | | | | | | | | | | | |
| 2389 | 257163.98 | 4085392.31 | 2.81E-08 | 3.49E-07 | 5.16E-08 | 5.16E-08 | 2.88E-08 | 5.07E-07 | 3.96E-09 | 5.32E-08 | 6.06E-09 | 8.06E-09 | 4.43E-09 | 7.77E-08 | 2.15E-09 | 2.88E-08 | 3.59E-09 | 3.39E-09 | 1.78E-09 | 3.99E-08 | | | | | | | | | | | | | |
| 2390 | 257153.93 | 4085370.49 | 2.48E-08 | 3.31E-07 | 4.90E-08 | 4.90E-08 | 2.73E-08 | 4.81E-07 | 3.76E-09 | 5.05E-08 | 7.63E-09 | 7.65E-09 | 4.21E-09 | 7.37E-08 | 2.04E-09 | 2.73E-08 | 3.41E-09 | 3.41E-09 | 1.69E-09 | 3.76E-08 | | | | | | | | | | | | | |
| 2391 | 237143.88 | 4085348.67 | 2.32E-08 | 3.10E-07 | 4.59E-08 | 4.59E-08 | 2.56E-08 | 4.51E-07 | 3.53E-09 | 4.73E-08 | 7.17E-09 | 7.17E-09 | 3.94E-09 | 6.91E-08 | 1.92E-09 | 2.56E-08 | 3.19E-09 | 3.19E-09 | 1.58E-09 | 3.33E-08 | | | | | | | | | | | | | |
| 2392 | 257133.84 | 4085326.85 | 2.15E-08 | 2.87E-07 | 4.25E-08 | 4.25E-09 | 2.37E-08 | 4.16E-07 | 3.27E-09 | 4.38E-08 | 6.84E-09 | 6.64E-09 | 3.85E-09 | 6.40E-08 | 1.72E-09 | 2.37E-09 | 2.95E-09 | 2.95E-09 | 1.46E-09 | 3.26E-08 | | | | | | | | | | | | | |
| 2393 | 257123.79 | 4085305.03 | 1.97E-08 | 2.84E-07 | 3.90E-08 | 3.90E-08 | 2.17E-08 | 3.63E-07 | 2.99E-09 | 4.01E-08 | 6.09E-09 | 6.09E-09 | 3.35E-09 | 3.87E-08 | 1.63E-09 | 2.17E-09 | 2.71E-09 | 2.71E-09 | 1.54E-09 | 3.01E-08 | | | | | | | | | | | | | |
| 2394 | 257113.74 | 4085263.21 | 1.80E-08 | 2.40E-07 | 3.55E-08 | 3.55E-08 | 1.98E-08 | 3.49E-07 | 2.73E-09 | 3.66E-08 | 5.55E-09 | 3.33E-09 | 3.05E-09 | 5.33E-08 | 1.46E-09 | 1.98E-09 | 2.47E-09 | 2.47E-09 | 1.22E-09 | 2.74E-08 | | | | | | | | | | | | | |
| 2393 | 257103.69 | 4085261.39 | 1.63E-08 | 2.18E-07 | 3.23E-08 | 3.23E-08 | 1.80E-08 | 3.17E-07 | 2.48E-09 | 3.33E-08 | 3.04E-09 | 3.04E-09 | 2.72E-09 | 4.86E-08 | 1.35E-09 | 1.80E-09 | 2.24E-09 | 2.24E-09 | 1.11E-09 | 2.49E-08 | | | | | | | | | | | | | |
| 2396 | 257093.65 | 4085239.37 | 1.49E-08 | 1.99E-07 | 2.94E-08 | 2.94E-08 | 1.64E-08 | 2.89E-07 | 2.26E-09 | 3.03E-08 | 4.59E-09 | 4.59E-09 | 2.52E-09 | 4.42E-08 | 1.23E-09 | 1.64E-08 | 2.04E-09 | 2.04E-09 | 1.01E-09 | 2.27E-08 | | | | | | | | | | | | | |
| 2397 | 237083.6 | 4085217.75 | 1.36E-08 | 1.82E-07 | 2.69E-08 | 2.69E-08 | 1.50E-08 | 2.84E-07 | 2.07E-09 | 2.77E-08 | 4.20E-09 | 4.20E-09 | 2.31E-09 | 4.05E-08 | 1.12E-09 | 1.50E-08 | 1.87E-09 | 1.87E-09 | 9.26E-10 | 2.08E-08 | | | | | | | | | | | | | |
| 2398 | 257073.55 | 4085193.93 | 1.26E-08 | 1.68E-07 | 2.48E-08 | 2.48E-08 | 1.39E-08 | 2.44E-07 | 1.91E-09 | 2.56E-08 | 3.88E-09 | 3.88E-09 | 2.13E-09 | 3.74E-08 | 1.04E-09 | 1.38E-08 | 1.73E-09 | 1.73E-09 | 8.54E-10 | 1.92E-08 | | | | | | | | | | | | | |
| 2399 | 257585.28 | 4085655.11 | 2.95E-08 | 3.94E-07 | 3.85E-08 | 5.83E-08 | 3.25E-08 | 5.73E-07 | 4.48E-09 | 6.00E-08 | 9.10E-09 | 9.10E-09 | 5.00E-09 | 6.77E-08 | 2.43E-09 | 3.23E-08 | 4.05E-09 | 4.05E-09 | 2.00E-09 | 4.50E-08 | | | | | | | | | | | | | |
| 2400 | 257609.57 | 4085654.03 | 2.96E-08 | 3.96E-07 | 3.86E-08 | 5.86E-08 | 3.27E-08 | 5.75E-07 | 4.50E-09 | 6.03E-08 | 9.14E-09 | 9.14E-09 | 3.03E-09 | 6.61E-08 | 2.44E-09 | 3.26E-08 | 4.07E-09 | 4.07E-09 | 2.01E-09 | 4.52E-08 | | | | | | | | | | | | | |
| 2401 | 257633.85 | 4085652.96 | 2.97E-08 | 3.97E-07 | 3.87E-08 | 5.87E-08 | 3.27E-08 | 5.72E-07 | 4.31E-09 | 6.05E-08 | 9.17E-09 | 9.17E-09 | 5.04E-09 | 6.83E-08 | 2.43E-09 | 3.27E-08 | 4.08E-09 | 4.08E-09 | 2.02E-09 | 4.33E-08 | | | | | | | | | | | | | |
| 2402 | 257658.13 | 4085651.88 | 2.97E-08 | 3.97E-07 | 5.87E-08 | 5.87E-08 | 3.27E-08 | 5.77E-07 | 4.31E-09 | 6.05E-08 | 9.17E-09 | 9.17E-09 | 5.04E-09 | 8.84E-08 | 2.43E-09 | 3.27E-08 | 4.02E-09 | 4.08E-09 | 2.02E-09 | 4.33E-08 | | | | | | | | | | | | | |
| 2403 | 257682.41 | 4085650.81 | 2.97E-08 | 3.96E-07 | 5.86E-08 | 3.86E-08 | 3.27E-08 | 5.76E-07 | 4.50E-09 | 6.03E-08 | 9.15E-09 | 9.15E-09 | 5.03E-09 | 6.62E-08 | 2.44E-09 | 3.26E-08 | 4.07E-09 | 4.07E-09 | 2.01E-09 | 4.32E-08 | | | | | | | | | | | | | |
| 2404 | 257706.69 | 4085649.72 | 2.95E-08 | 3.94E-07 | 5.83E-08 | 5.83E-08 | 3.25E-08 | 5.73E-07 | 4.48E-09 | 6.01E-08 | 9.11E-09 | 9.11E-09 | 5.01E-09 | 8.78E-08 | 2.43E-09 | 3.25E-08 | 4.05E-09 | 4.05E-09 | 2.01E-09 | 4.31E-08 | | | | | | | | | | | | | |
| 2405 | 257730.97 | 4085648.68 | 2.93E-08 | 3.92E-07 | 5.80E-08 | 5.80E-08 | 3.23E-08 | 5.70E-07 | 4.43E-09 | 5.97E-08 | 9.05E-09 | 9.05E-09 | 4.98E-09 | 8.72E-08 | 2.42E-09 | 3.23E-08 | 4.03E-09 | 4.03E-09 | 1.99E-09 | 4.48E-08 | | | | | | | | | | | | | |
| 2406 | 257255.26 | 4085647.58 | 2.91E-08 | 3.89E-07 | 5.72E-08 | 5.75E-08 | 3.21E-08 | 5.85E-07 | 4.42E-09 | 5.92E-08 | 8.98E-09 | 6.98E-09 | 4.94E-09 | 8.66E-08 | 2.40E-09 | 3.21E-08 | 4.00E-09 | 4.00E-09 | 1.98E-09 | 4.44E-08 | | | | | | | | | | | | | |
| 2407 | 257779.54 | 4085646.31 | 2.89E-08 | 3.85E-07 | 5.70E-08 | 5.70E-08 | 3.18E-08 | 5.80E-07 | 4.38E-09 | 5.87E-08 | 8.90E-09 | 6.90E-09 | 4.90E-09 | 6.58E-08 | 2.38E-09 | 3.18E-08 | 3.96E-09 | 3.96E-09 | 1.96E-09 | 4.40E-08 | | | | | | | | | | | | | |
| 2408 | 257803.82 | 4085645.43 | 2.86E-08 | 3.82E-07 | 5.65E-08 | 5.63E-08 | 3.15E-08 | 5.55E-07 | 4.34E-09 | 5.81E-08 | 8.82E-09 | 6.82E-09 | 4.85E-09 | 6.50E-08 | 2.36E-09 | 3.15E-08 | 3.92E-09 | 3.92E-09 | 1.94E-09 | 4.36E-08 | | | | | | | | | | | | | |
| 2409 | 257828.1 | 4085644.36 | 2.83E-08 | 3.78E-07 | 5.59E-08 | 5.59E-08 | 3.11E-08 | 5.49E-07 | 4.29E-09 | 5.75E-08 | 8.72E-09 | 8.72E-09 | 4.79E-09 | 8.40E-08 | 2.33E-09 | 3.11E-08 | 3.88E-09 | 3.88E-09 | 1.92E-09 | 4.31E-08 | | | | | | | | | | | | | |
| 2410 | 257852.38 | 4085643.28 | 2.79E-08 | 3.73E-07 | 5.52E-08 | 5.52E-08 | 3.03E-08 | 5.42E-07 | 4.24E-09 | 5.68E-08 | 6.61E-09 | 6.61E-09 | 4.74E-09 | 8.30E-08 | 2.30E-09 | 3.07E-08 | 3.83E-09 | 3.83E-09 | 1.90E-09 | 4.26E-08 | | | | | | | | | | | | | |
| 2411 | 257876.67 | 4085642.2 | 2.75E-08 | 3.67E-07 | 5.43E-08 | 5.43E-08 | 3.03E-08 | 5.33E-07 | 4.17E-09 | 5.59E-08 | 8.47E-09 | 8.47E-09 | 4.66E-09 | 8.17E-08 | 2.26E-09 | 3.02E-08 | 3.77E-09 | 3.77E-09 | 1.67E-09 | 4.19E-08 | | | | | | | | | | | | | |
| 2412 | 257900.93 | 4085641.13 | 2.70E-08 | 3.60E-07 | 5.33E-08 | 5.33E-08 | 2.97E-08 | 5.24E-07 | 4.09E-09 | 5.49E-08 | 8.32E-09 | 6.32E-09 | 4.58E-09 | 6.02E-08 | 2.22E-09 | 2.97E-08 | 3.70E-09 | 3.70E-09 | 1.63E-09 | 4.12E-08 | | | | | | | | | | | | | |
| 2413 | 257925.23 | 4085640.05 | 2.65E-08 | 3.53E-07 | 5.23E-08 | 5.23E-08 | 2.92E-08 | 5.14E-07 | 4.02E-09 | 5.39E-08 | 8.17E-09 | 6.17E-09 | 4.49E-09 | 7.87E-08 | 2.18E-09 | 2.91E-08 | 3.83E-09 | 3.63E-09 | 1.60E-09 | 4.04E-08 | | | | | | | | | | | | | |
| 2414 | 257949.31 | 4085638.98 | 2.59E-08 | 3.46E-07 | 5.11E-08 | 5.11E-08 | 2.85E-08 | 5.02E-07 | 3.93E-09 | 5.27E-08 | 7.98E-09 | 7.98E-09 | 4.39E-09 | 7.69E-08 | 2.13E-09 | 2.85E-08 | 3.35E-09 | 3.55E-09 | 1.76E-09 | 3.95E-08 | | | | | | | | | | | | | |
| 2415 | 257972.79 | 4085637.9 | 2.32E-08 | 3.37E-07 | 4.58E-08 | 4.98E-08 | 2.78E-08 | 4.90E-07 | 3.83E-09 | 5.13E-08 | 7.78E-09 | 7.78E-09 | 4.26E-09 | 7.50E-08 | 2.08E-09 | 2.78E-08 | 3.46E-09 | 3.46E-09 | 1.71E-09 | 3.85E-08 | | | | | | | | | | | | | |
| 2416 | 257998.07 | 4085636.83 | 2.45E-08 | 3.28E-07 | 4.85E-08 | 4.85E-08 | 2.70E-08 | 4.76E-07 | 3.75E-09 | 4.99E-08 | 7.57E-09 | 7.57E-09 | 4.16E-09 | 7.30E-08 | 2.02E-09 | 2.70E-08 | 3.37E-09 | 3.37E-09 | 1.67E-09 | 3.75E-08 | | | | | | | | | | | | | |
| 2417 | 258022.38 | 4085635.75 | 2.36E-08 | 3.16E-07 | 4.70E-08 | 4.70E-08 | 2.62E-08 | 4.62E-07 | 3.61E-09 | 4.84E-08 | 7.34E-09 | 7.34E-09 | 4.04E-09 | 7.07E-08 | 1.96E-09 | 2.62E-08 | 3.27E-09 | 3.27E-09 | 1.62E-09 | 3.63E-08 | | | | | | | | | | | | | |
| 2418 | 258046.64 | 4085634.68 | 2.30E-08 | 3.07E-07 | 4.54E-08 | 4.54E-08 | 2.53E-08 | 4.46E-07 | 3.49E-09 | 4.68E-08 | 7.09E-09 | 7.09E-09 | 3.90E-09 | 6.83E-08 | 1.89E-09 | 2.53E-08 | 3.16E-09 | 3.16E-08 | 1.56E-09 | 3.51E-08 | | | | | | | | | | | | | |
| 2419 | 258070.92 | 4085633.6 | 2.22E-08 | 2.96E-07 | 4.58E-08 | 4.58E-08 | 2.44E-08 | 4.30E-07 | 3.36E-09 | 4.51E-08 | 6.94E-09 | 6.84E-09 | 3.76E-09 | 6.59E-08 | 1.83E-09 | 2.44E-08 | 3.04E-09 | 3.04E-09 | 1.51E-09 | 3.38E-08 | | | | | | | | | | | | | |
| 2420 | 258095.2 | 4085632.53 | 2.14E-08 | 2.85E-07 | 4.22E-08 | 4.22E-08 | 2.33E-08 | 4.14E-07 | 3.24E-09 | 4.35E-08 | 6.59E-09 | 6.59E-09 | 3.62E-09 | 6.35E-08 | 1.76E-09 | 2.35E-08 | 2.93E-09 | 2.93E-09 | 1.45E-09 | 3.26E-08 | | | | | | | | | | | | | |
| 2421 | 258119.48 | 4085631.45 | 2.06E-08 | 2.75E-07 | 4.06E-08 | 4.06E-08 | 2.27E-08 | 3.99E-07 | 3.12E-09 | 4.18E-08 | 6.34E-09 | 6.34E-09 | 3.49E-09 | 6.11E-08 | 1.69E-09 | 2.26E-08 | 2.82E-09 | 2.82E-09 | 1.40E-09 | 3.14E-08 | | | | | | | | | | | | | |
| 2422 | 258143.72 | 4085630.37 | 1.98E-08 | 2.64E-07 | 3.91E-08 | 3.91E-08 | 2.18E-08 | 3.84E-07 | 3.00E-09 | 4.03E-08 | 6.11E-09 | 6.11E-09 | 3.36E-09 | 5.88E-08 | 1.63E-09 | 2.18E-08 | 2.72E-09 | 2.72E-09 | 1.34E-09 | 3.02E-08 | | | | | | | | | | | | | |
| 2423 | 258168.05 | 4085629.3 | 1.90E-08 | 2.54E-07 | 3.76E-08 | 3.76E-08 | 2.10E-08 | 3.69E-07 | 2.89E-09 | 3.67E-08 | 5.87E-09 | 5.87E-09 | 3.23E-09 | 5.66E-08 | 1.57E-09 | 2.10E-08 | 2.61E-09 | 2.61E-09 | 1.29E-09 | 2.90E-08 | | | | | | | | | | | | | |
| 2424 | 258192.33 | 4085628.22 | 1.83E-08 | 2.44E-07 | 3.61E-08 | 3.81E-08 | 2.01E-08 | 3.54E-07 | 2.77E-09 | 3.71E-08 | 5.63E-09 | 5.63E-09 | 3.10E-09 | 5.43E-08 | 1.50E-09 | 2.01E-08 | 2.51E-09 | 2.51E-09 | 1.24E-09 | 2.79E-08 | | | | | | | | | | | | | |
| 2425 | 258216.61 | 4085627.15 | 1.74E-08 | 2.32E-07 | 3.43E-08 | 3.43E-08 | 1.91E-08 | 3.37E-07 | 2.64E-09 | 3.53E-08 | 5.36E-09 | 5.36E-09 | 2.95E-09 | 5.17E-08 | 1.43E-09 | 1.91E-08 | 2.58E-09 | 2.38E-08 | 1.16E-09 | 2.65E-08 | | | | | | | | | | | | | |
| 2426 | 258240.89 | 4085626.07 | 1.66E-08 | 2.22E-07 | 3.26E-08 | 3.28E-08 | 1.83E-08 | 3.22E-07 | 2.52E-09 | 3.58E-08 | 5.12E-09 | 5.12E-09 | 2.81E-09 | 4.93E-08 | 1.37E-09 | 1.83E-08 | 2.26E-09 | 2.26E-09 | 1.13E-09 | 2.33E-08 | | | | | | | | | | | | | |
| 2427 | 258265.17 | 4085625 | 1.58E-08 | 2.11E-07 | 3.13E-08 | 3.73E-08 | 1.74E-08 | 3.07E-07 | 2.40E-09 | 3.22E-08 | 4.88E-09 | 4.88E-09 | 2.68E-09 | 4.70E-08 | 1.50E-09 | 1.74E-08 | 2.17E-09 | 2.17E-09 | 1.08E-09 | 2.41E-08 | | | | | | | | | | | | | |
| 2428 | 258289.46 | 4085623.92 | 1.51E-08 | 2.01E-07 | 2.98E-08 | 2.98E-08 | 1.66E-08 | 2.92E-07 | 2.29E-09 | 3.06E-08 | 4.85E-09 | 4.65E-09 | 2.53E-09 | 4.48E-08 | 1.24E-09 | 1.66E-08 | 2.07E-09 | 2.07E-09 | 1.02E-09 | 2.30E-08 | | | | | | | | | | | | | |
| 2429 | 258313.74 | 4085622.85 | 1.43E-08 | 1.91E-07 | 2.85E-08 | 2.85E-08 | 1.58E-08 | 2.78E-07 | 2.17E-09 | 2.91E-08 | 4.42E-09 | 4.42E-09 | 2.43E-09 | 4.26E-08 | 1.18E-09 | 1.58E-08 | 1.97E-09 | 1.97E-09 | 9.73E-10 | 2.18E-08 | | | | | | | | | | | | | |
| 2430 | 258338.02 | 4085621.72 | 1.36E-08 | 1.82E-07 | 2.69E-08 | 2.69E-08 | 1.50E-08 | 2.64E-07 | 2.06E-09 | 2.72E-08 | 4.19E-09 | 4.19E-09 | 2.31E-09 | 4.04E-08 | 1.12E-09 | 1.50E-08 | 1.87E-09 | 1.87E-09 | 9.24E-10 | 2.07E-08 | | | | | | | | | | | | | |
| 2431 | 258362.3 | 4085620.7 | 1.29E-08 | 1.72E-07 | 2.35E-08 | 2.55E-08 | 1.42E-08 | 2.50E-07 | 1.96E-09 | 2.63E-08 | 3.98E-09 | 3.98E-09 | 2.19E-09 | 3.84E-08 | 1.06E-09 | 1.42E-08 | 1.72E-09 | 1.77E-09 | 6.77E-10 | 1.97E-08 | | | | | | | | | | | | | |
| 2432 | 258386.58 | 4085619.62 | 1.23E-08 | 1.64E-07 | 2.43E-08 | 2.43E-08 | 1.33E-08 | 2.38E-07 | 1.86E-09 | 2.50E-08 | 3.79E-09 | 3.79E-09 | 2.08E-09 | 3.65E-08 | 1.01E-09 | 1.35E-08 | 1.69E-09 | 1.69E-09 | 8.33E-10 | 1.87E-08 | | | | | | | | | | | | | |
| 2433 | 257566.91 | 4085746.68 | 2.30E-08 | 3.07E-07 | 4.54E-08 | 4.54E-08 | 2.53E-08 | 4.46E-07 | 3.49E-09 | 4.66E-08 | 7.09E-09 | 7.09E-09 | 3.90E-09 | 6.83E-08 | 1.89E-09 | 2.53E-08 | 3.15E-09 | 3.15E-09 | 1.56E-09 | 3.51E-08 | | | | | | | | | | | | | |
| 2434 | 257544.11 | 4085738.35 | 2.34E-08 | 3.13E-07 | 4.83E-08 | 4.63E-08 | 2.58E-08 | 4.55E-07 | 3.56E-09 | 4.77E-08 | 7.23E-09 | 7.23E-09 | 3.97E-09 | 6.97E-08 | 1.93E-09 | 2.58E-08 | 3.22E-09 | 3.22E-09 | 1.59E-09 | 3.58E-08 | | | | | | | | | | | | | |
| 2435 | 257521.3 | 4085730.02 | 2.38E-08 | 3.19E-07 | 4.71E-08 | 4.71E-08 | 2.63E-08 | 4.83E-07 | 3.62E-09 | 4.83E-08 | 7.36E-09 | 7.36E-09 | 4.03E-09 | 7.09E-08 | 1.97E-09 | 2.83E-08 | 3.27E-09 | 3.27E-09 | 1.62E-09 | 3.64E-08 | | | | | | | | | | | | | |
| 2436 | 257498.5 | 4085721.69 | 2.42E-08 | 3.24E-07 | 4.79E-08 | 4.79E-08 | 2.67E-08 | 4.71E-07 | 3.68E-09 | 4.93E-08 | 7.48E-09 | 7.48E-09 | 4.11E-09 | 7.21E-08 | 2.00E-09 | 2.67E-08 | 3.33E-08 | 3.33E-09 | 1.65E-09 | 3.70E-08 | | | | | | | | | | | | | |
| 2437 | 257475.7 | 4085713.37 | 2.46E-08 | 3.28E-07 | 4.86E-08 | 4.86E-08 | 2.71E-08 | 4.77E-07 | 3.73E-09 | 

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2239 | 257914.17 | 4085590.3 | 7.56E-08 | 1.01E-08 | 1.49E-07 | 1.49E-07 | 8.32E-08 | 1.47E-08 | 1.15E-08 | 1.54E-07 | 2.33E-08 | 2.33E-08 | 1.28E-08 | 2.25E-07 | 6.23E-09 | 8.32E-08 | 1.04E-08 | 1.04E-08 | 5.13E-09 | 1.15E-07 |
| 2240 | 257958.45 | 4085389.22 | 7.45E-08 | 9.95E-09 | 1.47E-07 | 1.47E-07 | 8.19E-08 | 1.44E-08 | 1.13E-08 | 1.51E-07 | 2.29E-08 | 2.29E-08 | 1.26E-08 | 2.21E-07 | 6.13E-09 | 8.18E-08 | 1.02E-08 | 1.02E-08 | 5.05E-09 | 1.13E-07 |
| 2241 | 257962.73 | 4085388.15 | 7.29E-08 | 9.74E-09 | 1.44E-07 | 1.44E-07 | 8.04E-08 | 1.42E-08 | 1.11E-08 | 1.48E-07 | 2.25E-08 | 2.25E-08 | 1.24E-08 | 2.17E-07 | 6.01E-09 | 8.03E-08 | 1.00E-08 | 1.00E-08 | 4.96E-09 | 1.11E-07 |
| 2242 | 257987.01 | 4085387.07 | 7.14E-08 | 9.53E-09 | 1.41E-07 | 1.41E-07 | 7.86E-08 | 1.39E-08 | 1.08E-08 | 1.45E-07 | 2.20E-08 | 2.20E-08 | 1.21E-08 | 2.12E-07 | 5.88E-09 | 7.86E-08 | 9.80E-09 | 9.80E-09 | 4.85E-09 | 1.09E-07 |
| 2243 | 258011.29 | 4085386 | 8.97E-08 | 9.30E-07 | 1.38E-07 | 1.38E-07 | 7.87E-08 | 1.35E-06 | 1.06E-08 | 1.42E-07 | 2.15E-08 | 2.15E-08 | 1.18E-08 | 2.07E-07 | 5.74E-09 | 7.67E-08 | 9.56E-09 | 9.56E-09 | 4.73E-09 | 1.06E-07 |
| 2244 | 258055.58 | 4085384.92 | 8.78E-08 | 9.05E-07 | 1.34E-07 | 1.34E-07 | 7.47E-08 | 1.32E-08 | 1.03E-08 | 1.38E-07 | 2.09E-08 | 2.09E-08 | 1.15E-08 | 2.01E-07 | 5.59E-09 | 7.46E-08 | 9.30E-09 | 9.30E-09 | 4.60E-09 | 1.05E-07 |
| 2245 | 258059.86 | 4085383.85 | 6.57E-08 | 8.77E-07 | 1.30E-07 | 1.30E-07 | 7.24E-08 | 1.28E-06 | 9.97E-09 | 1.34E-07 | 2.03E-08 | 2.03E-08 | 1.11E-08 | 1.95E-07 | 5.41E-09 | 7.23E-08 | 9.02E-09 | 9.02E-09 | 4.46E-09 | 1.00E-07 |
| 2246 | 258084.14 | 4085382.77 | 6.34E-08 | 8.47E-07 | 1.25E-07 | 1.25E-07 | 6.99E-08 | 1.23E-08 | 9.63E-09 | 1.29E-07 | 1.96E-08 | 1.96E-08 | 1.08E-08 | 1.89E-07 | 5.25E-09 | 6.98E-08 | 8.71E-09 | 8.71E-09 | 4.51E-09 | 9.68E-08 |
| 2247 | 258108.42 | 4085381.7 | 6.10E-08 | 8.14E-07 | 1.20E-07 | 1.20E-07 | 6.72E-08 | 1.18E-08 | 9.25E-09 | 1.24E-07 | 1.88E-08 | 1.88E-08 | 1.03E-08 | 1.81E-07 | 5.03E-09 | 6.71E-08 | 8.37E-09 | 8.37E-09 | 4.14E-09 | 9.30E-08 |
| 2248 | 258132.7 | 4085380.62 | 5.83E-08 | 7.79E-07 | 1.15E-07 | 1.15E-07 | 6.42E-08 | 1.13E-08 | 8.85E-09 | 1.19E-07 | 1.80E-08 | 1.80E-08 | 9.89E-09 | 1.73E-07 | 4.80E-09 | 6.42E-08 | 8.00E-09 | 8.00E-09 | 3.96E-09 | 8.89E-08 |
| 2249 | 258156.99 | 4085379.54 | 5.54E-08 | 7.40E-07 | 1.10E-07 | 1.10E-07 | 6.10E-08 | 1.08E-06 | 8.41E-09 | 1.13E-07 | 1.71E-08 | 1.71E-08 | 9.40E-09 | 1.65E-07 | 4.57E-09 | 8.10E-08 | 7.61E-09 | 7.61E-09 | 3.77E-09 | 8.46E-08 |
| 2250 | 258181.27 | 4085378.47 | 5.24E-08 | 7.00E-07 | 1.05E-07 | 1.03E-07 | 5.77E-08 | 1.02E-08 | 7.95E-09 | 1.07E-07 | 1.63E-08 | 1.62E-08 | 8.88E-09 | 1.56E-07 | 4.32E-09 | 5.77E-08 | 7.19E-09 | 7.19E-09 | 3.56E-09 | 7.99E-08 |
| 2251 | 258205.55 | 4085577.39 | 4.92E-08 | 6.58E-07 | 9.75E-08 | 9.75E-08 | 5.43E-08 | 9.56E-07 | 7.47E-09 | 1.00E-07 | 1.52E-08 | 1.52E-08 | 8.35E-09 | 1.46E-07 | 4.06E-09 | 5.42E-08 | 6.76E-09 | 6.76E-09 | 3.35E-09 | 7.52E-08 |
| 2252 | 258229.83 | 4085378.32 | 4.61E-08 | 6.16E-07 | 9.12E-08 | 9.12E-08 | 5.08E-08 | 8.95E-07 | 7.00E-09 | 9.39E-08 | 1.42E-08 | 1.42E-08 | 7.82E-09 | 1.37E-07 | 3.80E-09 | 5.08E-08 | 6.33E-09 | 6.33E-09 | 3.13E-09 | 7.04E-08 |
| 2253 | 258254.11 | 4085575.24 | 4.30E-08 | 5.75E-07 | 8.51E-08 | 8.51E-08 | 4.74E-08 | 8.36E-07 | 6.53E-09 | 8.76E-08 | 1.33E-08 | 1.33E-08 | 7.30E-09 | 1.28E-07 | 3.55E-09 | 4.74E-08 | 5.91E-09 | 5.91E-09 | 2.95E-09 | 6.57E-08 |
| 2254 | 258278.39 | 4085374.17 | 4.00E-08 | 5.34E-07 | 7.91E-08 | 7.91E-08 | 4.41E-08 | 7.77E-07 | 6.07E-09 | 8.14E-08 | 1.23E-08 | 1.23E-08 | 6.79E-09 | 1.19E-07 | 3.30E-09 | 4.40E-08 | 5.49E-09 | 5.49E-09 | 2.72E-09 | 6.11E-08 |
| 2255 | 258302.68 | 4085375.09 | 3.70E-08 | 4.94E-07 | 7.31E-08 | 7.31E-08 | 4.08E-08 | 7.18E-07 | 5.61E-09 | 7.53E-08 | 1.14E-08 | 1.14E-08 | 6.28E-09 | 1.10E-07 | 3.05E-09 | 4.07E-08 | 5.08E-09 | 5.08E-09 | 2.51E-09 | 5.65E-08 |
| 2256 | 258326.96 | 4085572.02 | 5.40E-08 | 4.55E-07 | 6.73E-08 | 6.73E-08 | 3.75E-08 | 8.61E-07 | 5.17E-09 | 8.93E-08 | 1.05E-08 | 1.05E-08 | 5.76E-09 | 1.01E-07 | 2.81E-09 | 3.75E-08 | 4.67E-09 | 4.67E-09 | 2.31E-09 | 5.20E-08 |
| 2257 | 258351.24 | 4085370.94 | 3.12E-08 | 4.17E-07 | 6.17E-08 | 6.17E-08 | 3.44E-08 | 6.06E-07 | 4.74E-09 | 6.36E-08 | 9.64E-09 | 9.64E-09 | 5.30E-09 | 9.29E-08 | 2.57E-09 | 3.44E-08 | 4.29E-09 | 4.29E-09 | 2.12E-09 | 4.77E-08 |
| 2258 | 258375.52 | 4085389.87 | 2.86E-08 | 3.82E-07 | 5.66E-08 | 5.66E-08 | 3.15E-08 | 5.56E-07 | 4.35E-09 | 5.83E-08 | 8.83E-09 | 8.85E-09 | 4.86E-09 | 8.51E-08 | 2.36E-09 | 3.15E-08 | 3.93E-09 | 3.93E-09 | 1.95E-09 | 4.37E-08 |
| 2259 | 257554.77 | 4085447.39 | 5.87E-08 | 7.85E-07 | 1.16E-07 | 1.18E-07 | 6.47E-08 | 1.14E-08 | 8.92E-09 | 1.20E-07 | 1.81E-08 | 1.81E-08 | 9.97E-09 | 1.75E-07 | 4.84E-09 | 6.47E-08 | 8.06E-09 | 8.06E-09 | 3.99E-09 | 8.96E-08 |
| 2260 | 257533.11 | 4085439.48 | 5.91E-08 | 7.89E-07 | 1.17E-07 | 1.17E-07 | 6.51E-08 | 1.15E-08 | 8.97E-09 | 1.20E-07 | 1.82E-08 | 1.82E-08 | 1.00E-08 | 1.76E-07 | 4.87E-09 | 6.51E-08 | 8.11E-09 | 8.11E-09 | 4.02E-09 | 9.02E-08 |
| 2261 | 257511.45 | 4085431.57 | 5.91E-08 | 7.90E-07 | 1.17E-07 | 1.17E-07 | 6.51E-08 | 1.15E-08 | 8.97E-09 | 1.20E-07 | 1.62E-08 | 1.82E-08 | 1.00E-08 | 1.76E-07 | 4.87E-09 | 6.51E-08 | 8.12E-09 | 8.12E-09 | 4.02E-09 | 9.02E-08 |
| 2262 | 257489.79 | 4085423.63 | 5.88E-08 | 7.85E-07 | 1.16E-07 | 1.16E-07 | 6.48E-08 | 1.14E-08 | 8.93E-09 | 1.20E-07 | 1.62E-08 | 1.82E-08 | 9.98E-09 | 1.75E-07 | 4.85E-09 | 6.48E-08 | 8.08E-09 | 8.08E-09 | 4.00E-09 | 8.96E-08 |
| 2263 | 257468.13 | 4085415.74 | 5.82E-08 | 7.78E-07 | 1.15E-07 | 1.15E-07 | 6.42E-08 | 1.13E-08 | 8.64E-09 | 1.18E-07 | 1.80E-08 | 1.80E-08 | 9.88E-09 | 1.73E-07 | 4.80E-09 | 6.41E-08 | 7.99E-09 | 7.99E-09 | 3.96E-09 | 8.89E-08 |
| 2264 | 257446.47 | 4085407.83 | 5.72E-08 | 7.64E-07 | 1.15E-07 | 1.13E-07 | 8.30E-08 | 1.11E-06 | 8.68E-09 | 1.16E-07 | 1.77E-08 | 1.77E-08 | 9.71E-09 | 1.70E-07 | 4.72E-09 | 6.30E-08 | 7.66E-09 | 7.66E-09 | 3.89E-09 | 8.73E-08 |
| 2265 | 257424.81 | 4085599.92 | 5.58E-08 | 7.45E-07 | 1.10E-07 | 1.10E-07 | 6.14E-08 | 1.06E-08 | 8.46E-09 | 1.13E-07 | 1.72E-08 | 1.72E-08 | 9.46E-09 | 1.66E-07 | 4.60E-09 | 6.14E-08 | 7.65E-09 | 7.65E-09 | 5.75E-09 | 8.51E-08 |
| 2266 | 257403.15 | 4085392 | 5.38E-08 | 7.19E-07 | 1.06E-07 | 1.06E-07 | 5.93E-08 | 1.05E-08 | 8.17E-09 | 1.10E-07 | 1.66E-08 | 1.66E-08 | 9.13E-09 | 1.60E-07 | 4.44E-09 | 5.93E-08 | 7.59E-09 | 7.39E-09 | 3.66E-09 | 8.22E-08 |
| 2267 | 257381.48 | 4085384.09 | 5.18E-08 | 6.89E-07 | 1.02E-07 | 1.02E-07 | 5.58E-08 | 1.00E-08 | 7.83E-09 | 1.05E-07 | 1.59E-08 | 1.59E-08 | 6.75E-09 | 1.53E-07 | 4.25E-09 | 5.68E-08 | 7.08E-09 | 7.08E-09 | 5.51E-09 | 7.67E-08 |
| 2268 | 257350.16 | 4083355.23 | 4.95E-08 | 6.58E-07 | 9.74E-08 | 9.74E-08 | 5.43E-08 | 9.57E-07 | 7.48E-09 | 1.00E-07 | 1.52E-08 | 1.52E-08 | 8.56E-09 | 1.47E-07 | 4.06E-09 | 5.45E-08 | 6.77E-09 | 6.77E-09 | 3.35E-09 | 7.52E-08 |
| 2269 | 257340.53 | 4085334.28 | 4.90E-08 | 6.54E-07 | 9.68E-08 | 9.68E-08 | 5.40E-08 | 9.51E-07 | 7.43E-09 | 9.97E-08 | 1.51E-08 | 1.51E-08 | 8.31E-09 | 1.46E-07 | 4.04E-09 | 5.39E-08 | 6.72E-09 | 6.72E-09 | 3.33E-09 | 7.47E-08 |
| 2270 | 257330.89 | 4085313.34 | 4.80E-08 | 6.41E-07 | 9.48E-08 | 9.48E-08 | 5.29E-08 | 9.32E-07 | 7.28E-09 | 9.77E-08 | 1.48E-08 | 1.48E-08 | 6.14E-09 | 1.43E-07 | 3.96E-09 | 5.28E-08 | 6.59E-09 | 6.59E-09 | 3.26E-09 | 7.52E-08 |
| 2271 | 257321.24 | 4085292.39 | 4.62E-08 | 6.17E-07 | 9.13E-08 | 9.13E-08 | 5.09E-08 | 6.97E-07 | 7.02E-09 | 9.41E-08 | 1.43E-08 | 1.45E-08 | 7.84E-09 | 1.37E-07 | 3.81E-09 | 5.09E-08 | 8.35E-09 | 8.35E-09 | 3.14E-09 | 7.05E-08 |
| 2272 | 257311.59 | 4085271.44 | 4.37E-08 | 5.83E-07 | 8.63E-08 | 6.63E-08 | 4.81E-08 | 8.48E-07 | 6.63E-09 | 8.89E-08 | 1.55E-08 | 1.35E-08 | 7.41E-09 | 1.30E-07 | 5.60E-09 | 4.81E-08 | 6.00E-09 | 8.00E-09 | 2.97E-09 | 8.67E-08 |
| 2273 | 257301.95 | 4085250.5 | 4.05E-08 | 5.41E-07 | 6.00E-08 | 6.00E-08 | 4.46E-08 | 7.86E-07 | 6.15E-09 | 8.24E-08 | 1.25E-08 | 1.25E-08 | 6.87E-09 | 1.20E-07 | 5.34E-09 | 4.46E-08 | 5.56E-09 | 5.56E-09 | 2.75E-09 | 6.18E-08 |
| 2274 | 257392.3 | 4085229.55 | 3.69E-08 | 4.93E-07 | 7.30E-08 | 7.30E-08 | 4.07E-08 | 7.17E-07 | 5.61E-09 | 7.52E-08 | 1.14E-08 | 1.14E-08 | 8.27E-09 | 1.10E-07 | 3.05E-09 | 4.07E-08 | 5.07E-09 | 5.07E-09 | 2.51E-09 | 5.64E-08 |
| 2275 | 257282.66 | 4085208.6 | 3.33E-08 | 4.44E-07 | 6.57E-08 | 6.57E-08 | 3.67E-08 | 8.45E-07 | 5.05E-09 | 6.77E-08 | 1.03E-08 | 1.03E-08 | 5.64E-09 | 9.89E-08 | 2.74E-09 | 3.66E-08 | 4.57E-09 | 4.57E-09 | 2.26E-09 | 5.08E-08 |
| 2276 | 257373.01 | 4085187.65 | 2.97E-08 | 3.97E-07 | 5.67E-08 | 5.87E-08 | 3.27E-08 | 5.77E-07 | 4.51E-09 | 6.04E-08 | 9.16E-09 | 9.18E-09 | 5.04E-09 | 6.83E-08 | 2.45E-09 | 3.27E-08 | 4.08E-09 | 4.08E-09 | 2.02E-09 | 4.53E-08 |
| 2277 | 257576.43 | 4085455.31 | 5.81E-08 | 7.76E-07 | 1.15E-07 | 1.15E-07 | 6.40E-08 | 1.13E-08 | 8.63E-09 | 1.18E-07 | 1.79E-08 | 1.79E-08 | 9.85E-09 | 1.73E-07 | 4.79E-09 | 6.40E-08 | 7.98E-09 | 7.98E-09 | 3.95E-09 | 8.86E-08 |
| 2278 | 257600.73 | 4085454.23 | 5.94E-08 | 7.93E-07 | 1.17E-07 | 1.17E-07 | 6.54E-08 | 1.15E-08 | 9.01E-09 | 1.21E-07 | 1.83E-08 | 1.83E-08 | 1.01E-08 | 1.77E-07 | 4.89E-09 | 6.54E-08 | 6.15E-09 | 8.15E-09 | 4.03E-09 | 9.06E-08 |
| 2279 | 257625 | 4085453.16 | 6.04E-08 | 8.07E-07 | 1.19E-07 | 1.19E-07 | 6.65E-08 | 1.17E-08 | 9.18E-09 | 1.23E-07 | 1.86E-08 | 1.86E-08 | 1.02E-08 | 1.80E-07 | 4.98E-09 | 6.65E-08 | 6.29E-09 | 6.29E-09 | 4.10E-09 | 9.21E-08 |
| 2280 | 257649.28 | 4085452.08 | 6.12E-08 | 8.17E-07 | 1.21E-07 | 1.21E-07 | 6.74E-08 | 1.19E-08 | 9.28E-09 | 1.24E-07 | 1.89E-08 | 1.89E-08 | 1.04E-08 | 1.82E-07 | 5.04E-09 | 6.74E-08 | 8.40E-09 | 8.40E-09 | 4.16E-09 | 9.33E-08 |
| 2281 | 257673.56 | 4085451 | 6.15E-08 | 8.21E-07 | 1.22E-07 | 1.22E-07 | 6.78E-08 | 1.19E-08 | 9.33E-09 | 1.25E-07 | 1.90E-08 | 1.90E-08 | 1.04E-08 | 1.85E-07 | 5.07E-09 | 6.77E-08 | 6.44E-09 | 6.44E-09 | 4.18E-09 | 9.38E-08 |
| 2282 | 257697.84 | 4085449.93 | 6.18E-08 | 8.25E-07 | 1.22E-07 | 1.22E-07 | 6.81E-08 | 1.20E-08 | 9.38E-09 | 1.26E-07 | 1.91E-08 | 1.91E-08 | 1.05E-08 | 1.84E-07 | 5.09E-09 | 6.80E-08 | 6.48E-09 | 6.48E-09 | 4.70E-09 | 9.43E-08 |
| 2283 | 257722.13 | 4085448.85 | 6.20E-08 | 8.28E-07 | 1.23E-07 | 1.25E-07 | 8.83E-08 | 1.20E-06 | 9.41E-09 | 1.26E-07 | 1.91E-08 | 1.91E-08 | 1.05E-08 | 1.84E-07 | 5.11E-09 | 6.83E-08 | 6.51E-09 | 6.51E-09 | 4.21E-09 | 9.46E-08 |
| 2284 | 257746.41 | 4085447.78 | 6.21E-08 | 8.30E-07 | 1.23E-07 | 1.23E-07 | 6.84E-08 | 1.21E-08 | 9.43E-09 | 1.26E-07 | 1.92E-08 | 1.92E-08 | 1.05E-08 | 1.85E-07 | 5.12E-09 | 6.84E-08 | 6.53E-09 | 6.53E-09 | 4.22E-09 | 9.48E-08 |
| 2285 | 257770.69 | 4085446.7 | 6.21E-08 | 8.29E-07 | 1.23E-07 | 1.23E-07 | 6.84E-08 | 1.21E-08 | 9.42E-09 | 1.26E-07 | 1.92E-08 | 1.92E-08 | 1.05E-08 | 1.85E-07 | 5.12E-09 | 6.84E-08 | 6.52E-09 | 6.52E-09 | 4.22E-09 | 9.47E-08 |
| 2286 | 257794.97 | 4085445.63 | 6.19E-08 | 8.27E-07 | 1.22E-07 | 1.22E-07 | 6.82E-08 | 1.20E-06 | 9.39E-09 | 1.26E-07 | 1.91E-08 | 1.91E-08 | 1.05E-08 | 1.84E-07 | 5.10E-09 | 6.81E-08 | 8.49E-09 | 8.49E-09 | 4.20E-09 | 9.44E-08 |
| 2287 | 257819.25 | 4085444.55 | 8.13E-08 | 8.22E-07 | 1.22E-07 | 1.22E-07 | 6.78E-08 | 1.19E-08 | 9.33E-09 | 1.25E-07 | 1.90E-08 | 1.90E-08 | 1.04E-08 | 1.85E-07 | 5.07E-09 | 6.77E-08 | 8.44E-09 | 6.44E-09 | 4.18E-09 | 9.39E-08 |
| 2288 | 257843.53 | 4085443.48 | 6.10E-08 | 8.14E-07 | 1.20E-07 | 1.20E-07 | 8.72E-08 | 1.18E-08 | 9.25E-09 | 1.24E-07 | 1.88E-08 | 1.88E-08 | 1.03E-08 | 1.81E-07 | 5.03E-09 | 6.71E-08 | 6.37E-09 | 6.37E-09 | 4.14E-09 | 9.30E-08 |
| 2289 | 257667.63 | 4085442.4 | 8.03E-08 | 8.05E-07 | 1.19E-07 | 1.19E-07 | 6.64E-08 | 1.17E-08 | 9.15E-09 | 1.23E-07 | 1.86E-08 | 1.86E-08 | 1.02E-08 | 1.79E-07 | 4.97E-09 | 6.64E-08 | 6.26E-09 | 6.28E-09 | 4.10E-09 | 9.20E-08 |
| 2290 | 257892.1 | 4085441.33 | 3.95E-08 | 7.94E-07 | 1.18E-07 | 1.18E-07 | 6.55E-08 | 1.15E-08 | 9.02E-09 | 1.21E-07 | 1.83E-08 | 1.83E-08 | 1.01E-08 | 1.77E-07 | 4.90E-09 | 6.55E-08 | 6.16E-09 | 6.16E-09 | 4.04E-09 | 9.07E-08 |
| 2291 | 257916.38 | 4085440.25 | 3.85E-08 | 7.82E-07 | 1.16E-07 | 1.16E-07 | 6.45E-08 | 1.14E-08 | 8.88E-09 | 1.19E-07 | 1.61E-08 | 1.81E-08 | 9.93E-09 | 1.74E-07 | 4.82E-09 | 6.44E-08 | 6.03E-09 | 8.03E-09 | 5.98E-09 | 8.93E-08 |
| 2292 | 257940.66 | 4085439.17 | 3.74E-08 | 7.87E-07 | 1.14E-07 | 1.14E-07 | 6.33E-08 | 1.12E-06 | 8.72E-09 | 1.17E-07 | 1.73E-08 | 1.77E-08 | 9.75E-09 | 1.71E-07 | 4.74E-09 | 6.35E-08 | 7.89E-09 | 7.89E-09 | 5.90E-09 | 8.77E-08 |
| 2293 | 257964.94 | 4085438.1 | 5.83E-08 | 7.51E-07 | 1.11E-07 | 1.11E-07 | 6.20E-08 | 1.09E-06 | 8.54E-09 | 1.14E-07 | 1.74E-08 | 1.74E-08 | 9.54E-09 | 1.67E-07 | 4.64E-09 | 6.19E-08 | 7.72E-09 | 7.72E-09 | 3.82E-09 | 6.59E-08 |
| 2294 | 257989.23 | 4085437.02 | 3.50E-08 | 7.34E-07 | 1.09E-07 | 1.09E-07 | 6.06E-08 | 1.07E-06 | 8.34E-09 | 1.12E-07 | 1.70E-08 | 1.70E-08 | 9.52E-09 | 1.63E-07 | 4.55E-09 | 6.05E-08 | 7.55E-09 | 7.55E-09 | 3.73E-09 | 8.39E-08 |
| 2295 | 258013.51 | 4085435.95 | 5.35E-08 | 7.13E-07 | 1.06E-07 | 1.06E-07 | 5.90E-08 | 1.04E-06 | 8.12E-09 | 1.09E-07 | 1.65E-08 | 1.65E-08 | 9.08E-09 | 1.59E-07 | 4.41E-09 | 5.89E-08 | 7.55E-09 | 7.55E-09 | 5.64E-09 | 8.17E-08 |
| 2296 | 258057.79 | 4085434.87 | 5.20E-08 | 8.94E-07 | 1.03E-07 | 1.03E-07 | 5.73E-08 | 1.01E-06 | 7.89E-09 | 1.06E-07 | 1.60E-08 | 1.60E-08 | 6.82E-09 | 1.55E-07 | 4.28E-09 | 5.72E-08 | 7.13E-09 | 7.13E-09 | 3.53E-09 | 7.93E-08 |
| 2297 | 258062.07 | 4085433.8 | 3.03E-08 | 8.71E-07 | 9.93E-08 | 9.93E-08 | 5.54E-08 | 9.76E-07 | 7.62E-09 | 1.02E-07 | 1.55E-08 | 1.55E-08 | 8.53E-09 | 1.49E-07 | 4.14E-09 | 5.54E-08 | 8.90E-09 | 6.90E-09 | 3.42E-09 | 7.67E-08 |
| 2298 | 258086.35 | 4085432.72 | 4.84E-08 | 6.47E-07 | 9.57E-08 | 9.57E-08 | 5.34E-08 | 9.40E-07 | 7.35E-09 | 9.85E-08 | 1.49E-08 | 1.49E-08 | 8.22E-09 | 1.44E-07 | 3.99E-09 | 5.33E-08 | 6.65E-09 | 6.65E-09 | 3.29E-09 | 7.39E-08 |
| 2299 | 258110.83 | 4085431.65 | 4.64E-08 | 6.20E-07 | 9.16E-08 | 9.18E-08 | 5.12E-08 | 9.01E-07 | 7.05E-09 | 9.45E-08 | 1.43E-08 | 1.45E-08 | 7.88E-09 | 1.38E-07 | 5.83E-09 | 5.11E-08 | 6.37E-09 | 6.37E-09 | 3.16E-09 | 7.09E-08 |
| 2300 | 258134.92 | 4085430.57 | 4.43E-08 | 5.92E-07 | 8.76E-08 | 6.76E-08 | 4.88E-08 | 8.60E-07 | 6.73E-09 | 9.02E-08 | 1.37E-08 | 1.37E-08 | 7.52E-09 | 1.32E-07 | 3.65E-09 | 4.88E-08 | 6.08E-09 | 6.08E-09 | 3.01E-09 | 8.76E-08 |
| 2301 | 258159.2 | 4085429.5 | 4.21E-08 | 5.62E-07 | 8.32E-08 | 8.32E-08 | 4.64E-08 | 8.17E-07 | 6.39E-09 | 8.57E-08 | 1.30E-08 | 1.30E-08 | 7.14E-09 | 1.25E-07 | 3.47E-09 | 4.64E-08 | 5.78E-09 | 5.78E-09 | 2.86E-09 | 6.43E-08 |
| 2302 | 258183.48 | 4085428.42 | 3.99E-08 | 5.32E-07 | 7.88E-08 | 7.88E-08 | 4.39E-08 | 7.74E-07 | 6.05E-09 | 8.11E-08 | 1.23E-08 | 1.23E-08 | 6.76E-09 | 1.19E-07 | 3.29E-09 | 4.39E-08 | 5.47E-09 | 5.47E-09 | 2.71E-09 | 6.08E-08 |
| 2303 | 258207.78 | 4085427.34 | 3.76E-08 | 5.03E-07 | 7.44E-08 | 7.44E-08 | 4.15E-08 | 7.31E-07 | 5.71E-09 | 7.66E-08 | 1.16E-08 | 1.16E-08 | 8.39E-09 | 1.12E-07 | 3.10E-09 | 4.14E-08 | 5.17E-09 | 5.17E-09 | 2.56E-09 | 5.74E-08 |
| 2304 | 258232.04 | 4085426.27 | 3.55E-08 | 4.74E-07 | 7.01E-08 | 7.01E-08 | 3.91E-08 | 6.88E-07 | 5.34E-09 | 7.22E-08 | 1.09E-08 | 1.09E-08 | 6.02E-09 | 1.05E-07 | 2.92E-09 | 3.90E-08 | 4.87E-09 | 4.87E-09 | 2.41E-09 | 5.41E-08 |
| 2305 | 258256.33 | 4085425.19 | 3.31E-08 | 4.43E-07 | 6.58E-08 | 8.58E-08 | 3.87E-08 | 6.47E-07 | 5.06E-09 | 8.78E-08 | 1.03E-08 | 1.03E-08 | 5.65E-09 | 9.90E-08 | 2.75E-09 | 3.67E-08 | 4.57E-09 | 4.57E-09 | 2.26E-09 | 5.08E-08 |
| 2306 | 258280.61 | 4085424.12 | 3.12E-08 | 4.16E-07 | 6.18E-08 | 8.16E-08 | 3.43E-08 | 6.05E-07 | 4.71E-09 | 8.34E-08 | 9.62E-09 | 9.62E-09 | 5.29E-09 | 9.27E-08 | 2.57E-09 | 3.43E-08 | 4.26E-09 | 4.26E-09 | 2.12E-09 | 4.76E-08 |
| 2307 | 258304.89 | 4085423.04 | 2.90E-08 | 3.88E-07 | 5.74E-08 | 5.74E-08 | 3.20E-08 | 5.64E-07 | 4.41E-09 | 5.91E-08 | 8.96E-09 | 8.96E-09 | 4.93E-09 | 8.64E-08 | 2.39E-09 | 3.20E-08 | 3.99E-09 | 3.99E-09 | 1.97E-09 | 4.43E-08 |
| 2308 | 258329.17 | 4085421.97 | 2.70E-08 | 3.60E-07 | 5.33E-08 | 5.33E-08 | 2.97E-08 | 5.24E-07 | 4.09E-09 | 5.49E-08 | 8.32E-09 | 8.32E-09 | 4.58E-09 | 8.02E-08 | 2.22E-09 | 2.97E-08 | 3.70E-09 | 3.70E-09 | 1.83E-09 | 4.12E-08 |
| 2309 | 258353.45 | 4085420.89 | 2.50E-08 | 3.34E-07 | 4.94E-08 | 4.94E-08 | 2.76E-08 | 4.85E-07 | 3.80E-09 | 5.09E-08 | 7.72E-09 | 7.72E-09 | 4.24E-09 | 7.44E-08 | 2.08E-09 | 2.75E-08 | 3.43E-09 | 3.43E-09 | 1.70E-09 | 3.82E-08 |
| 2310 | 258377.73 | 4085419.82 | 2.32E-08 | 3.09E-07 | 4.58E-08 | 4.58E-08 | 2.55E-08 | 4.50E-07 | 3.52E-09 | 4.71E-08 | 7.15E-09 | 7.15E-09 | 3.93E-09 | 6.89E-08 | 1.91E-09 | 2.55E-08 | 3.18E-09 | 3.18E-09 | 1.57E-09 | 3.54E-08 |
| 2311 | 257558.64 | 4085547.09 | 4.10E-08 | 5.48E-07 | 6.11E-08 | 6.11E-08 | 4.52E-08 | 7.97E-07 | 8.23E-09 | 8.35E-08 | 1.27E-08 | 1.27E-08 | 8.96E-09 | 1.22E-07 | 5.38E-09 | 4.52E-08 | 5.85E-09 | 5.63E-09 | 2.79E-09 | 8.26E-08 |
| 2312 | 257536.43 | 4085538.98 | 4.16E-08 | 5.58E-07 | 6.26E-08 | 6.26E-08 | 4.61E-08 | 8.11E-07 | 8.34E-09 | 8.51E-08 | 1.29E-08 | 1.29E-08 | 7.09E-09 | 1.24E-07 | 5.45E-09 | 4.60E-08 | 5.74E-09 | 5.74E-09 | 2.84E-09 | 6.38E-08 |
| 2313 | 257514.21 | 4085530.86 | 4.22E-08 | 5.64E-07 | 6.55E-08 | 6.35E-08 | 4.65E-08 | 6.20E-07 | 6.41E-09 | 8.60E-08 | 1.30E-08 | 1.30E-08 | 7.17E-09 | 1.26E-07 | 3.48E-09 | 4.65E-08 | 5.80E-09 | 5.80E-09 | 2.87E-09 | 6.45E-08 |
| 2314 | 257491.99 | 4085522.75 | 4.25E-08 | 5.66E-07 | 8.40E-08 | 6.40E-08 | 4.68E-08 | 8.25E-07 | 8.45E-09 | 8.65E-08 | 1.51E-08 | 1.31E-08 | 7.21E-09 | 1.26E-07 | 3.50E-09 | 4.68E-08 | 5.84E-09 | 5.84E-09 | 2.89E-09 | 6.49E-08 |
| 2315 | 257469.76 | 4085514.63 | 4.26E-08 | 5.70E-07 | 8.45E-08 | 6.43E-08 | 4.70E-08 | 6.28E-07 | 8.47E-09 | 8.68E-08 | 1.52E-08 | 1.32E-08 | 7.23E-09 | 1.27E-07 | 3.51E-09 | 4.69E-08 | 5.85E-09 | 5.85E-09 | 2.90E-09 | 6.51E-08 |
| 2316 | 257447.56 | 4085506.51 | 4.26E-08 | 5.69E-07 | 8.42E-08 | 6.42E-08 | 4.69E-08 | 8.27E-07 | 8.47E-09 | 8.67E-08 | 1.31E-08 | 1.31E-08 | 7.23E-09 | 1.27E-07 | 3.51E-09 | 4.69E-08 | 5.85E-09 | 5.85E-09 | 2.90E-09 | 6.50E-08 |
| 2317 | 257425.34 | 4085498.4 | 4.24E-08 | 5.66E-07 | 8.38E-08 | 8.38E-08 | 4.87E-08 | 8.23E-07 | 6.43E-09 | 8.62E-08 | 1.31E-08 | 1.31E-08 | 7.19E-09 | 1.26E-07 | 3.49E-09 | 4.67E-08 | 5.82E-09 | 5.82E-09 | 2.88E-09 | 6.47E-08 |
| 2318 | 257403.13 | 4085490.28 | 4.19E-08 | 5.80E-07 | 8.28E-08 | 8.28E-08 | 4.62E-08 | 8.14E-07 | 6.36E-09 | 8.53E-08 | 1.29E-08 | 1.29E-08 | 7.11E-09 | 1.25E-07 | 3.46E-09 | 4.62E-08 | 5.76E-09 | 5.76E-09 | 2.85E-09 | 6.40E-08 |
| 2319 | 257380.91 | 4085482.17 | 4.12E-08 | 5.50E-07 | 8.14E-08 | 8.14E-08 | 4.54E-08 | 7.99E-07 | 6.23E-09 | 8.38E-08 | 1.27E-08 | 1.27E-08 | 6.99E-09 | 1.22E-07 | 3.39E-09 | 4.53E-08 | 5.65E-09 | 5.65E-09 | 2.80E-09 | 6.28E-08 |
| 2320 | 257358.69 | 4085474.05 | 4.02E-08 | 5.37E-07 | 7.94E-08 | 7.94E-08 | 4.43E-08 | 7.80E-07 | 6.10E-09 | 8.18E-08 | 1.24E-08 | 1.24E-08 | 6.82E-09 | 1.19E-07 | 3.31E-09 | 4.42E-08 | 5.52E-09 | 5.52E-09 | 2.73E-09 | 6.13E-08 |
| 2321 | 257336.48 | 4085465.93 | 3.90E-08 | 5.21E-07 | 7.70E-08 | 7.70E-08 | 4.29E-08 | 7.57E-07 | 5.91E-09 | 7.95E-08 | 1.20E-08 | 1.20E-08 | 6.61E-09 | 1.16E-07 | 3.21E-09 | 4.29E-08 | 5.35E-09 | 5.35E-09 | 2.65E-09 | 5.95E-08 |
| 2322 | 257314.26 | 4085457.82 | 5.76E-08 | 5.02E-07 | 7.45E-08 | 7.43E-08 | 4.14E-08 | 7.30E-07 | 5.71E-09 | 7.65E-08 | 1.16E-08 | 1.16E-08 | 6.38E-09 | 1.12E-07 | 3.10E-09 | 4.14E-08 | 5.16E-09 | 5.16E-09 | 2.56E-09 | 5.74E-08 |
| 2325 | 257282.15 | 4085428.22 | 5.63E-08 | 4.85E-07 | 7.18E-08 | 7.18E-08 | 4.00E-08 | 7.09E-07 | 5.51E-09 | 7.39E-08 | 1.12E-08 | 1.12E-08 | 6.16E-09 | 1.08E-07 | 2.99E-09 | 4.00E-08 | 4.99E-09 | 4.99E-09 | 2.47E-09 | 5.54E-08 |
| 2324 | 257272.26 | 4085406.75 | 3.62E-08 | 4.84E-07 | 7.16E-08 | 7.16E-08 | 3.99E-08 | 7.03E-07 | 5.50E-09 | 7.37E-08 | 1.12E-08 | 1.12E-08 | 6.14E-09 | 1.08E-07 | 2.99E-09 | 3.99E-08 | 4.97E-09 | 4.97E-09 | 2.46E-09 | 5.53E-08 |
| 2325 | 257282.37 | 4085385.25 | 3.58E-08 | 4.78E-07 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2121 | 258150.35 | 4085229.89 | 1.74E-07 | 2.33E-06 | 3.44E-07 | 3.44E-07 | 1.92E-07 | 3.38E-06 | 2.64E-08 | 3.54E-07 | 3.37E-08 | 3.37E-08 | 2.95E-08 | 5.16E-07 | 1.44E-08 | 1.92E-07 | 2.39E-08 | 2.39E-06 | 1.16E-08 | 2.66E-07 |
| 2122 | 258174.65 | 4085228.62 | 1.67E-07 | 2.22E-06 | 3.29E-07 | 2.29E-07 | 1.83E-07 | 3.23E-06 | 2.53E-08 | 3.39E-07 | 3.14E-08 | 3.14E-08 | 2.82E-08 | 4.95E-07 | 1.37E-08 | 1.82E-07 | 2.29E-08 | 2.29E-08 | 1.13E-08 | 2.54E-07 |
| 2122 | 258198.91 | 4085227.54 | 1.58E-07 | 2.11E-06 | 3.12E-07 | 3.12E-07 | 1.74E-07 | 2.06E-06 | 2.39E-08 | 2.21E-07 | 4.87E-08 | 4.87E-08 | 2.67E-08 | 4.69E-07 | 1.30E-08 | 1.74E-07 | 2.16E-08 | 2.16E-06 | 1.07E-08 | 2.41E-07 |
| 2124 | 258223.19 | 4085226.46 | 1.47E-07 | 1.97E-06 | 2.91E-07 | 2.91E-07 | 1.83E-07 | 2.66E-06 | 2.24E-08 | 3.00E-07 | 4.55E-08 | 4.55E-08 | 2.50E-08 | 4.39E-07 | 1.22E-08 | 1.62E-07 | 2.02E-08 | 2.02E-08 | 1.00E-08 | 2.23E-07 |
| 2125 | 258247.48 | 4085225.39 | 1.36E-07 | 1.82E-06 | 2.69E-07 | 2.69E-07 | 1.50E-07 | 2.64E-06 | 2.06E-08 | 2.72E-07 | 4.19E-08 | 4.19E-08 | 2.31E-08 | 4.04E-07 | 1.12E-08 | 1.50E-07 | 1.87E-08 | 1.87E-08 | 9.24E-09 | 2.07E-07 |
| 2126 | 258271.76 | 4085224.31 | 1.23E-07 | 1.65E-06 | 2.43E-07 | 2.43E-07 | 1.36E-07 | 2.39E-06 | 1.87E-08 | 2.51E-07 | 3.80E-08 | 3.80E-08 | 2.09E-08 | 3.66E-07 | 1.02E-08 | 1.36E-07 | 1.69E-08 | 1.69E-08 | 8.37E-09 | 1.88E-07 |
| 2127 | 258296.04 | 4085223.24 | 1.09E-07 | 1.46E-06 | 2.16E-07 | 2.16E-07 | 1.21E-07 | 2.13E-06 | 1.66E-08 | 2.23E-07 | 3.38E-08 | 3.38E-08 | 1.85E-08 | 3.26E-07 | 9.02E-09 | 1.21E-07 | 1.50E-08 | 1.50E-08 | 7.44E-09 | 1.67E-07 |
| 2128 | 258220.22 | 4085222.16 | 9.56E-08 | 1.26E-06 | 1.89E-07 | 1.89E-07 | 1.05E-07 | 1.86E-06 | 1.45E-08 | 1.95E-07 | 2.95E-08 | 2.95E-08 | 1.82E-08 | 2.84E-07 | 7.88E-09 | 1.05E-07 | 1.31E-08 | 1.31E-08 | 6.50E-09 | 1.46E-07 |
| 2129 | 258344.6 | 4085221.09 | 6.23E-08 | 1.10E-06 | 1.63E-07 | 1.63E-07 | 9.07E-08 | 1.60E-06 | 1.23E-08 | 1.67E-07 | 2.54E-08 | 2.54E-08 | 1.40E-08 | 2.43E-07 | 6.78E-09 | 9.06E-08 | 1.13E-08 | 1.13E-08 | 3.39E-09 | 1.26E-07 |
| 2130 | 257648.14 | 4085297.54 | 1.15E-07 | 1.34E-06 | 2.27E-07 | 2.27E-07 | 1.27E-07 | 2.23E-06 | 1.74E-08 | 2.34E-07 | 3.55E-08 | 3.55E-08 | 1.93E-08 | 3.42E-07 | 9.47E-09 | 1.27E-07 | 1.58E-08 | 1.58E-08 | 7.81E-09 | 1.75E-07 |
| 2131 | 257526.47 | 4085289.63 | 1.13E-07 | 1.51E-06 | 2.23E-07 | 2.23E-07 | 1.24E-07 | 2.19E-06 | 1.71E-08 | 2.30E-07 | 3.48E-08 | 3.48E-08 | 1.91E-08 | 3.36E-07 | 9.30E-09 | 1.24E-07 | 1.55E-08 | 1.55E-08 | 7.67E-09 | 1.72E-07 |
| 2132 | 257304.81 | 4085281.71 | 1.09E-07 | 1.46E-06 | 2.16E-07 | 2.16E-07 | 1.20E-07 | 2.12E-06 | 1.66E-08 | 2.22E-07 | 3.37E-08 | 3.37E-08 | 1.85E-08 | 3.23E-07 | 9.00E-09 | 1.20E-07 | 1.50E-08 | 1.50E-08 | 7.42E-09 | 1.67E-07 |
| 2133 | 257483.15 | 4085275.8 | 1.04E-07 | 1.36E-06 | 2.05E-07 | 2.05E-07 | 1.14E-07 | 2.01E-06 | 1.57E-08 | 2.11E-07 | 3.19E-08 | 3.19E-08 | 1.76E-08 | 3.08E-07 | 8.53E-09 | 1.14E-07 | 1.42E-08 | 1.42E-08 | 7.03E-09 | 1.58E-07 |
| 2134 | 257431.85 | 4085244.94 | 9.73E-08 | 1.30E-06 | 1.92E-07 | 1.92E-07 | 1.07E-07 | 1.89E-06 | 1.48E-08 | 1.98E-07 | 3.00E-08 | 3.00E-08 | 1.85E-08 | 2.89E-07 | 8.02E-09 | 1.07E-07 | 1.34E-08 | 1.34E-08 | 6.61E-09 | 1.49E-07 |
| 2133 | 257442.2 | 4085223.99 | 9.55E-08 | 1.28E-06 | 1.89E-07 | 1.89E-07 | 1.05E-07 | 1.85E-06 | 1.45E-08 | 1.94E-07 | 2.95E-08 | 2.93E-08 | 1.62E-08 | 2.84E-07 | 7.87E-09 | 1.05E-07 | 1.31E-08 | 1.31E-08 | 6.49E-09 | 1.46E-07 |
| 2136 | 237422.55 | 4085203.05 | 9.04E-08 | 1.21E-08 | 1.79E-07 | 1.79E-07 | 9.96E-08 | 1.75E-06 | 1.37E-08 | 1.84E-07 | 2.79E-08 | 2.79E-06 | 1.53E-08 | 2.69E-07 | 7.45E-09 | 9.93E-08 | 1.24E-06 | 1.24E-08 | 6.14E-09 | 1.28E-07 |
| 2137 | 257422.91 | 4085182.1 | 8.26E-08 | 1.11E-06 | 1.64E-07 | 1.64E-07 | 9.13E-08 | 1.61E-06 | 1.26E-08 | 1.69E-07 | 2.56E-08 | 2.56E-08 | 1.41E-08 | 2.46E-07 | 6.63E-09 | 9.12E-08 | 1.14E-08 | 1.14E-08 | 5.63E-09 | 1.26E-07 |
| 2138 | 257569.8 | 4085305.45 | 1.15E-07 | 1.54E-06 | 2.28E-07 | 2.26E-07 | 1.27E-07 | 2.24E-06 | 1.75E-08 | 2.35E-07 | 3.56E-08 | 3.56E-08 | 1.96E-08 | 3.43E-07 | 9.52E-09 | 1.27E-07 | 1.58E-08 | 1.58E-08 | 7.64E-09 | 1.76E-07 |
| 2139 | 257594.08 | 4085304.38 | 1.21E-07 | 1.62E-06 | 2.40E-07 | 2.40E-07 | 1.34E-07 | 2.36E-06 | 1.84E-08 | 2.47E-07 | 3.74E-08 | 3.74E-08 | 2.06E-08 | 3.61E-07 | 1.00E-08 | 1.34E-07 | 1.67E-08 | 1.67E-08 | 6 25E-09 | 1.65E-07 |
| 2140 | 257618.36 | 4085303.3 | 1.26E-07 | 1.69E-06 | 2.49E-07 | 2.49E-07 | 1.39E-07 | 2.45E-06 | 1.92E-08 | 2.57E-07 | 3.90E-08 | 3.90E-08 | 2.14E-08 | 3.75E-07 | 1.04E-08 | 1.39E-07 | 1.73E-08 | 1.73E-06 | 6.56E-09 | 1.92E-07 |
| 2141 | 257642.64 | 4085302.23 | 1.30E-07 | 1.74E-06 | 2.57E-07 | 2.57E-07 | 1.44E-07 | 2.52E-06 | 1.98E-08 | 2.65E-07 | 4.02E-08 | 4.02E-08 | 2.21E-08 | 3.87E-07 | 1.07E-08 | 1.43E-07 | 1.79E-08 | 1.79E-08 | 6.65E-09 | 1.99E-07 |
| 2142 | 257666.92 | 4085301.15 | 1.34E-07 | 1.79E-06 | 2.64E-07 | 2.64E-07 | 1.47E-07 | 2.59E-06 | 2.03E-08 | 2.72E-07 | 4.12E-08 | 4.12E-08 | 2.27E-08 | 3.97E-07 | 1.10E-08 | 1.47E-07 | 1.84E-08 | 1.84E-08 | 9.08E-09 | 2.04E-07 |
| 2143 | 257691.21 | 4085300.08 | 1.38E-07 | 1.82E-06 | 2.70E-07 | 2.70E-07 | 1.50E-07 | 2.65E-06 | 2.07E-08 | 2.78E-07 | 4.21E-08 | 4.21E-08 | 2.31E-08 | 4.06E-07 | 1.12E-08 | 1.50E-07 | 1.87E-08 | 1.87E-08 | 9.27E-09 | 2.08E-07 |
| 2144 | 257715.49 | 4085299 | 1.39E-07 | 1.85E-06 | 2.74E-07 | 2.74E-07 | 2.52E-07 | 2.69E-06 | 2.10E-08 | 2.82E-07 | 4.28E-06 | 4.28E-08 | 2.36E-08 | 4.12E-07 | 1.14E-08 | 1.53E-07 | 1.90E-08 | 1.90E-08 | 9.42E-09 | 2.12E-07 |
| 2143 | 237739.77 | 4085297.92 | 1.40E-07 | 1.67E-06 | 2.77E-07 | 2.77E-07 | 1.55E-07 | 2.72E-06 | 2.13E-08 | 2.85E-07 | 4.33E-08 | 4.33E-08 | 2.38E-08 | 4.17E-07 | 1.16E-08 | 1.54E-07 | 1.93E-08 | 1.93E-08 | 9.53E-09 | 2.14E-07 |
| 2146 | 257764.05 | 4085296.85 | 1.41E-07 | 1.89E-06 | 2.80E-07 | 2.80E-07 | 1.56E-07 | 2.75E-06 | 2.15E-08 | 2.88E-07 | 4.36E-08 | 4.36E-08 | 2.40E-08 | 4.21E-07 | 1.17E-08 | 1.56E-07 | 1.94E-08 | 1.94E-08 | 9.61E-09 | 2.16E-07 |
| 2147 | 257788.33 | 4085295.77 | 1.42E-07 | 1.90E-06 | 2.81E-07 | 2.81E-07 | 1.56E-07 | 2.76E-06 | 2.16E-08 | 2.89E-07 | 4.38E-08 | 4.38E-08 | 2.41E-08 | 4.22E-07 | 1.17E-08 | 1.56E-07 | 1.95E-08 | 1.93E-08 | 9.65E-09 | 2.17E-07 |
| 2148 | 237812.62 | 4085294.7 | 1.42E-07 | 1.89E-06 | 2.80E-07 | 2.80E-07 | 1.56E-07 | 2.75E-06 | 2.15E-08 | 2.89E-07 | 4.38E-08 | 4.38E-08 | 2.41E-08 | 4.22E-07 | 1.17E-08 | 1.56E-07 | 1.95E-08 | 1.93E-08 | 9.64E-09 | 2.16E-07 |
| 2149 | 257836.9 | 4085292.62 | 1.42E-07 | 1.69E-06 | 2.80E-07 | 2.80E-07 | 1.56E-07 | 2.75E-08 | 2.15E-08 | 2.89E-07 | 4.38E-08 | 4.38E-08 | 2.41E-08 | 4.22E-07 | 1.17E-08 | 1.56E-07 | 1.95E-08 | 1.93E-08 | 9.64E-09 | 2.16E-07 |
| 2150 | 257861.18 | 4083292.55 | 1.41E-07 | 1.89E-06 | 2.79E-07 | 2.79E-07 | 1.56E-07 | 2.74E-06 | 2.14E-08 | 2.87E-07 | 4.36E-08 | 4.166-08 | 2.40E-08 | 4.20E-07 | 1.16E-08 | 1.56E-07 | 1.94E-08 | 1.94E-08 | 9.60E-09 | 2.16E-07 |
| 2151 | 257885.46 | 4085291.47 | 1.41E-07 | 1.88E-06 | 2.78E-07 | 2.78E-07 | 1.55E-07 | 2.73E-06 | 2.14E-08 | 2.86E-07 | 4.34E-08 | 4.34E-08 | 2.39E-08 | 4.16E-07 | 1.16E-08 | 1.55E-07 | 1.93E-08 | 1.93E-08 | 9.56E-09 | 2.15E-07 |
| 2152 | 257909.74 | 4085290.4 | 1.40E-07 | 1.87E-06 | 2.76E-07 | 2.76E-07 | 1.54E-07 | 2.71E-06 | 2.12E-08 | 2.85E-07 | 4.32E-08 | 4.32E-08 | 2.37E-08 | 4.16E-07 | 1.15E-08 | 1.54E-07 | 1.92E-08 | 1.92E-08 | 9.50E-09 | 2.13E-07 |
| 2152 | 257934.02 | 4085289.32 | 1.39E-07 | 1.85E-06 | 2.74E-07 | 2.74E-07 | 1.53E-07 | 2.69E-06 | 2.10E-08 | 2.82E-07 | 4.28E-08 | 4.28E-08 | 2.33E-08 | 4.12E-07 | 1.14E-08 | 1.53E-07 | 1.90E-08 | 1.90E-08 | 9.42E-09 | 2.12E-07 |
| 2154 | 257958.31 | 4085288.25 | 1.37E-07 | 1.83E-06 | 2.71E-07 | 2.71E-07 | 1.51E-07 | 2.66E-06 | 2.08E-08 | 2.79E-07 | 4.23E-08 | 4.23E-08 | 2.33E-08 | 4.08E-07 | 1.13E-08 | 1.51E-07 | 1.88E-08 | 1.88E-08 | 9.32E-09 | 2.09E-07 |
| 2155 | 237982.59 | 4085287.17 | 1.35E-07 | 1.81E-06 | 2.67E-07 | 2.67E-07 | 1.49E-07 | 2.65E-06 | 2.05E-08 | 2.75E-07 | 4.17E-08 | 4.17E-08 | 2.30E-08 | 4.02E-07 | 1.12E-08 | 1.49E-07 | 1.86E-08 | 1.86E-08 | 9.19E-09 | 2.06E-07 |
| 2136 | 258006.87 | 4085286.09 | 1.33E-07 | 1.78E-06 | 2.63E-07 | 2.63E-07 | 1.47E-07 | 2.58E-06 | 2.02E-08 | 2.71E-07 | 4.11E-08 | 4.11E-08 | 2.26E-08 | 3.96E-07 | 1.10E-08 | 1.47E-07 | 1.83E-08 | 1.83E-08 | 9.04E-09 | 2.03E-07 |
| 2137 | 258031.15 | 4085285.02 | 1.30E-07 | 1.74E-06 | 2.58E-07 | 2.58E-07 | 1.44E-07 | 2.53E-06 | 1.98E-08 | 2.65E-07 | 4.02E-08 | 4.02E-08 | 2.21E-08 | 3.88E-07 | 1.08E-08 | 1.44E-07 | 1.79E-08 | 1.79E-08 | 8.86E-09 | 1.99E-07 |
| 2158 | 258055.43 | 4085283.94 | 1.27E-07 | 1.70E-06 | 2.52E-07 | 2.52E-07 | 1.40E-07 | 2.47E-06 | 1.93E-08 | 2.59E-07 | 3.93E-08 | 3.93E-08 | 2.16E-08 | 3.79E-07 | 1.05E-08 | 1.40E-07 | 1.75E-08 | 1.75E-08 | 8.66E-09 | 1.94E-07 |
| 2159 | 258079.77 | 4085282.87 | 1.24E-07 | 1.66E-06 | 2.43E-07 | 2.45E-07 | 1.37E-07 | 2.41E-06 | 1.88E-08 | 2.52E-07 | 3.82E-08 | 3.82E-08 | 2.10E-08 | 3.68E-07 | 1.02E-08 | 1.36E-07 | 1.70E-08 | 1.70E-08 | 6.42E-09 | 1.89E-07 |
| 2160 | 258104 | 4085281.79 | 1.20E-07 | 1.60E-06 | 2.37E-07 | 2.37E-07 | 1.32E-07 | 2.33E-06 | 1.82E-08 | 2.44E-07 | 3.70E-08 | 3.70E-08 | 2.04E-08 | 3.57E-07 | 9.89E-09 | 1.32E-07 | 1.63E-08 | 1.85E-08 | 6.13E-09 | 1.83E-07 |
| 2161 | 258128.28 | 4085280.72 | 1.15E-07 | 1.54E-08 | 2.28E-07 | 2.28E-07 | 1.27E-07 | 2.24E-06 | 1.75E-08 | 2.35E-07 | 3.56E-08 | 3.56E-08 | 1.96E-08 | 3.43E-07 | 9.52E-09 | 1.27E-07 | 1.55E-08 | 1.59E-08 | 7.85E-09 | 1.76E-07 |
| 2162 | 258152.56 | 4085279.64 | 1.10E-07 | 1.48E-08 | 2.18E-07 | 2.18E-07 | 1.22E-07 | 2.14E-06 | 1.68E-08 | 2.25E-07 | 3.41E-08 | 3.41E-08 | 1.87E-08 | 3.26E-07 | 9.10E-09 | 1.22E-07 | 1.52E-08 | 1.52E-08 | 7.31E-09 | 1.69E-07 |
| 2162 | 258176.84 | 4085278.57 | 1.05E-07 | 1.40E-08 | 2.07E-07 | 2.07E-07 | 1.13E-07 | 2.03E-06 | 1.59E-08 | 2.13E-07 | 3.23E-08 | 3.23E-08 | 1.78E-08 | 3.12E-07 | 6.64E-09 | 1.15E-07 | 1.44E-08 | 1.44E-08 | 7.12E-09 | 1.60E-07 |
| 2164 | 258201.12 | 4085277.49 | 9.86E-08 | 1.32E-06 | 1.93E-07 | 1.95E-07 | 1.09E-07 | 1.91E-06 | 1.50E-08 | 2.01E-07 | 3.04E-08 | 3.04E-08 | 1.67E-08 | 2.93E-07 | 6.13E-09 | 1.09E-07 | 1.35E-08 | 1.35E-08 | 6.70E-09 | 1.50E-07 |
| 2165 | 258223.41 | 4085276.42 | 9.18E-08 | 1.23E-06 | 1.81E-07 | 1.81E-07 | 1.01E-07 | 1.78E-06 | 1.39E-08 | 1.87E-07 | 2.83E-08 | 2.83E-08 | 1.56E-08 | 2.73E-07 | 7.57E-09 | 1.01E-07 | 1.26E-08 | 1.26E-08 | 6.24E-08 | 1.40E-07 |
| 2166 | 258249.69 | 4083273.34 | 6.46E-08 | 1.13E-06 | 1.87E-07 | 1.67E-07 | 9.32E-08 | 1.84E-06 | 1.28E-08 | 1.72E-07 | 2.61E-08 | 2.61E-08 | 1.43E-08 | 2.51E-07 | 6.97E-09 | 9.31E-08 | 1.16E-08 | 1.16E-08 | 5.73E-09 | 1.29E-07 |
| 2167 | 258273.97 | 4085274.26 | 7.71E-08 | 1.03E-06 | 1.52E-07 | 1.52E-07 | 8.49E-08 | 1.50E-06 | 1.17E-08 | 1.37E-07 | 2.38E-08 | 2.38E-08 | 1.31E-08 | 2.29E-07 | 6.35E-09 | 6.49E-08 | 1.06E-08 | 1.06E-08 | 5.24E-09 | 1.16E-07 |
| 2168 | 258298.25 | 4085273.19 | 6.96E-08 | 9.30E-07 | 1.38E-07 | 1.38E-07 | 7.67E-08 | 1.35E-06 | 1.06E-08 | 1.42E-07 | 2.13E-08 | 2.15E-08 | 1.18E-08 | 2.07E-07 | 5.74E-09 | 7.66E-08 | 9.56E-09 | 9.56E-08 | 4.73E-09 | 1.06E-07 |
| 2169 | 258322.53 | 4085272.11 | 6.23E-08 | 8.32E-07 | 1.23E-07 | 1.23E-07 | 6.86E-08 | 1.21E-06 | 9.43E-09 | 1.27E-07 | 1.92E-08 | 1.92E-08 | 1.06E-08 | 1.65E-07 | 5.13E-09 | 6.86E-08 | 6.55E-09 | 6.53E-09 | 4.23E-09 | 9.50E-08 |
| 2170 | 258346.62 | 4085271.04 | 5.53E-08 | 7.38E-07 | 1.09E-07 | 1.09E-07 | 6.09E-08 | 1.07E-06 | 8.39E-09 | 1.12E-07 | 1.71E-08 | 1.71E-08 | 9.38E-09 | 1.64E-07 | 4.56E-09 | 6.09E-08 | 7.59E-09 | 7.39E-09 | 3.76E-09 | 6.43E-08 |
| 2171 | 258371.1 | 4085269.96 | 4.69E-08 | 6.53E-07 | 9.66E-08 | 9.66E-08 | 5.39E-08 | 9.49E-07 | 7.42E-09 | 9.95E-08 | 1.51E-08 | 1.31E-08 | 8.30E-09 | 1.45E-07 | 4.03E-09 | 5.38E-08 | 6.71E-09 | 6.71E-09 | 3.32E-09 | 7.46E-08 |
| 2172 | 257531.38 | 4085347.87 | 8.92E-08 | 1.19E-06 | 1.76E-07 | 1.76E-07 | 9.83E-08 | 1.71E-06 | 1.35E-08 | 1.82E-07 | 2.75E-08 | 2.75E-08 | 1.51E-08 | 2.65E-07 | 7.35E-09 | 9.82E-08 | 1.22E-08 | 1.22E-08 | 6.06E-09 | 1.36E-07 |
| 2173 | 257510.12 | 4085332.8 | 8.74E-08 | 1.17E-06 | 1.73E-07 | 1.73E-07 | 9.63E-08 | 1.70E-06 | 1.33E-08 | 1.78E-07 | 2.70E-08 | 2.70E-08 | 1.48E-08 | 2.60E-07 | 7.20E-09 | 9.62E-08 | 1.20E-08 | 1.20E-08 | 5.94E-09 | 1.33E-07 |
| 2174 | 237468.86 | 4085317.72 | 8.23E-08 | 1.10E-06 | 1.63E-07 | 1.63E-07 | 9.07E-08 | 1.60E-06 | 1.25E-08 | 1.67E-07 | 2.54E-08 | 2.54E-08 | 1.40E-08 | 2.45E-07 | 6.78E-09 | 9.06E-08 | 1.13E-08 | 1.13E-08 | 5.59E-09 | 1.26E-07 |
| 2175 | 257418.42 | 4085282.7 | 7.43E-08 | 9.92E-07 | 1.47E-07 | 1.47E-07 | 8.18E-08 | 1.44E-06 | 1.13E-08 | 1.31E-07 | 2.29E-08 | 2.29E-08 | 1.26E-08 | 2.21E-07 | 6.12E-09 | 6.18E-08 | 1.02E-08 | 1.02E-08 | 5.05E-09 | 1.13E-07 |
| 2176 | 257400.04 | 4085242.8 | 7.11E-08 | 9.50E-07 | 1.41E-07 | 1.41E-07 | 7.84E-08 | 1.38E-06 | 1.08E-08 | 1.45E-07 | 2.19E-08 | 2.19E-08 | 1.21E-08 | 2.11E-07 | 5.86E-09 | 7.83E-08 | 9.76E-09 | 9.76E-09 | 4.63E-09 | 1.09E-07 |
| 2172 | 257381.67 | 4085202.9 | 6.19E-08 | 8.27E-07 | 1.22E-07 | 1.22E-07 | 6.82E-08 | 1.20E-06 | 9.39E-09 | 1.26E-07 | 1.91E-08 | 1.91E-08 | 1.05E-08 | 1.84E-07 | 5.10E-09 | 6.81E-08 | 8.50E-09 | 8.50E-09 | 4.21E-09 | 9.44E-08 |
| 2178 | 257396.29 | 4085154.33 | 9.23E-08 | 1.24E-06 | 1.83E-07 | 1.83E-07 | 1.02E-07 | 1.80E-06 | 1.40E-08 | 1.88E-07 | 2.85E-08 | 2.85E-08 | 1.57E-08 | 2.73E-07 | 7.62E-09 | 1.02E-07 | 1.27E-08 | 1.27E-08 | 6.26E-09 | 1.41E-07 |
| 2179 | 257620.57 | 4085133.23 | 9.54E-08 | 1.27E-06 | 1.88E-07 | 1.88E-07 | 1.05E-07 | 1.85E-06 | 1.43E-08 | 1.94E-07 | 2.94E-08 | 2.94E-08 | 1.82E-08 | 2.84E-07 | 7.86E-09 | 1.05E-07 | 1.31E-08 | 1.31E-08 | 6.48E-09 | 1.46E-07 |
| 2180 | 257644.85 | 4085332.18 | 9.72E-08 | 1.31E-06 | 1.93E-07 | 1.93E-07 | 1.08E-07 | 1.90E-06 | 1.48E-08 | 1.99E-07 | 3.02E-08 | 3.02E-08 | 1.66E-08 | 2.91E-07 | 6.06E-09 | 1.08E-07 | 1.34E-08 | 1.34E-08 | 6.64E-09 | 1.49E-07 |
| 2181 | 257669.14 | 4085351.1 | 9.97E-08 | 1.33E-06 | 1.97E-07 | 1.97E-07 | 1.10E-07 | 1.94E-06 | 1.51E-08 | 2.02E-07 | 3.08E-08 | 3.08E-08 | 1.69E-08 | 2.96E-07 | 6.22E-09 | 1.10E-07 | 1.37E-08 | 1.37E-08 | 6.77E-09 | 1.52E-07 |
| 2182 | 257693.42 | 4085350.03 | 1.01E-07 | 1.35E-06 | 2.00E-07 | 2.00E-07 | 1.12E-07 | 1.97E-06 | 1.54E-08 | 2.06E-07 | 3.13E-08 | 3.21E-08 | 1.72E-08 | 3.01E-07 | 6.35E-09 | 1.12E-07 | 1.39E-08 | 1.39E-08 | 6.88E-09 | 1.55E-07 |
| 2183 | 257717.7 | 4083348.95 | 1.03E-07 | 1.37E-06 | 2.03E-07 | 2.03E-07 | 1.13E-07 | 1.99E-06 | 1.56E-08 | 2.09E-07 | 3.17E-08 | 3.17E-08 | 1.74E-08 | 3.05E-07 | 6.46E-09 | 1.13E-07 | 1.41E-08 | 1.41E-08 | 6.97E-09 | 1.57E-07 |
| 2184 | 257741.98 | 4085347.88 | 1.03E-07 | 1.38E-06 | 2.04E-07 | 2.04E-07 | 1.14E-07 | 2.00E-06 | 1.57E-08 | 2.10E-07 | 3.19E-08 | 3.19E-08 | 1.75E-08 | 3.07E-07 | 8.51E-09 | 1.14E-07 | 1.42E-08 | 1.42E-08 | 7.02E-09 | 1.58E-07 |
| 2185 | 257766.26 | 4085346.8 | 1.03E-07 | 1.38E-06 | 2.04E-07 | 2.04E-07 | 1.14E-07 | 2.01E-06 | 1.57E-08 | 2.10E-07 | 3.19E-08 | 3.19E-08 | 1.75E-08 | 3.07E-07 | 8.52E-08 | 1.14E-07 | 1.42E-08 | 1.42E-08 | 7.03E-09 | 1.58E-07 |
| 2186 | 237790.55 | 4085345.73 | 1.04E-07 | 1.38E-06 | 2.05E-07 | 2.05E-07 | 1.14E-07 | 2.01E-06 | 1.57E-08 | 2.11E-07 | 3.20E-08 | 2.20E-08 | 1.76E-08 | 3.08E-07 | 8.54E-09 | 1.14E-07 | 1.42E-08 | 1.42E-08 | 7.04E-09 | 1.58E-07 |
| 2167 | 257814.83 | 4085344.65 | 1.04E-07 | 1.38E-06 | 2.05E-07 | 2.05E-07 | 1.14E-07 | 2.01E-06 | 1.57E-08 | 2.11E-07 | 3.19E-08 | 3.19E-08 | 1.76E-08 | 3.08E-07 | 8.53E-09 | 1.14E-07 | 1.42E-08 | 1.42E-08 | 7.04E-09 | 1.58E-07 |
| 2188 | 257839.11 | 4085343.57 | 1.03E-07 | 1.38E-06 | 2.04E-07 | 2.04E-07 | 1.14E-07 | 2.00E-06 | 1.57E-08 | 2.10E-07 | 3.16E-08 | 3.16E-06 | 1.75E-08 | 2.07E-07 | 8.51E-09 | 1.14E-07 | 1.42E-08 | 1.42E-08 | 7.01E-09 | 1.58E-07 |
| 2189 | 257863.39 | 4085342.5 | 1.03E-07 | 1.37E-06 | 2.02E-07 | 2.03E-07 | 1.13E-07 | 1.99E-06 | 1.56E-08 | 2.09E-07 | 3.17E-08 | 3.17E-06 | 1.74E-08 | 3.05E-07 | 8.48E-09 | 1.13E-07 | 1.41E-08 | 1.41E-08 | 6.97E-09 | 1.57E-07 |
| 2190 | 257887.87 | 4085341.42 | 1.02E-07 | 1.36E-06 | 2.02E-07 | 2.01E-07 | 1.12E-07 | 1.98E-06 | 1.55E-08 | 2.07E-07 | 3.14E-08 | 3.14E-08 | 1.73E-08 | 3.03E-07 | 8.39E-09 | 1.12E-07 | 1.40E-08 | 1.40E-08 | 6.92E-09 | 1.55E-07 |
| 2191 | 257911.95 | 4085340.35 | 1.01E-07 | 1.35E-06 | 1.99E-07 | 1.99E-07 | 1.11E-07 | 1.96E-06 | 1.53E-08 | 2.03E-07 | 3.11E-08 | 3.11E-08 | 1.71E-06 | 3.00E-07 | 8.30E-09 | 1.11E-07 | 1.38E-08 | 1.36E-08 | 6.85E-09 | 1.54E-07 |
| 2192 | 257936.24 | 4085339.27 | 9.95E-08 | 1.33E-06 | 1.97E-07 | 1.97E-07 | 1.10E-07 | 1.93E-06 | 1.51E-08 | 2.02E-07 | 3.07E-08 | 3.07E-08 | 1.69E-08 | 2.96E-07 | 8.20E-09 | 1.09E-07 | 1.37E-08 | 1.37E-08 | 6.76E-09 | 1.52E-07 |
| 2193 | 257960.52 | 4085338.2 | 9.79E-08 | 1.31E-06 | 1.93E-07 | 1.93E-07 | 1.08E-07 | 1.90E-06 | 1.49E-08 | 1.99E-07 | 3.02E-08 | 3.02E-08 | 1.66E-08 | 2.91E-07 | 8.07E-09 | 1.08E-07 | 1.34E-08 | 1.34E-08 | 6.65E-09 | 1.49E-07 |
| 2194 | 257984.8 | 4085337.12 | 9.81E-08 | 1.28E-08 | 1.90E-07 | 1.90E-07 | 1.06E-07 | 1.67E-06 | 1.46E-08 | 1.96E-07 | 2.97E-08 | 2.97E-08 | 1.63E-08 | 2.86E-07 | 7.92E-09 | 1.06E-07 | 2.32E-08 | 2.32E-08 | 6.52E-09 | 1.47E-07 |
| 2195 | 258009.08 | 4085336.05 | 9.41E-08 | 1.26E-06 | 1.86E-07 | 1.86E-07 | 1.04E-07 | 1.63E-06 | 1.43E-08 | 1.91E-07 | 2.90E-08 | 2.90E-08 | 1.60E-08 | 2.80E-07 | 7.76E-09 | 1.04E-07 | 1.29E-08 | 1.29E-08 | 6.39E-09 | 1.44E-07 |
| 2196 | 258033.36 | 4085334.97 | 9.16E-06 | 1.23E-06 | 1.81E-07 | 1.81E-07 | 1.01E-07 | 1.78E-06 | 1.39E-08 | 1.87E-07 | 2.83E-08 | 2.83E-08 | 1.56E-08 | 2.73E-07 | 7.57E-08 | 1.01E-07 | 1.26E-08 | 1.26E-08 | 6.24E-09 | 1.40E-07 |
| 2197 | 258057.65 | 4085333.9 | 6.92E-06 | 1.19E-06 | 1.76E-07 | 1.76E-07 | 9.83E-08 | 1.73E-06 | 1.35E-08 | 1.82E-07 | 2.75E-08 | 2.75E-08 | 1.51E-08 | 2.65E-07 | 7.36E-09 | 9.83E-08 | 1.23E-08 | 1.23E-08 | 6.06E-09 | 1.36E-07 |
| 2198 | 258081.93 | 4085332.82 | 8.64E-08 | 1.13E-06 | 1.71E-07 | 1.71E-07 | 9.52E-08 | 1.68E-06 | 1.31E-08 | 1.76E-07 | 2.67E-08 | 2.67E-08 | 1.47E-06 | 2.57E-07 | 7.12E-09 | 9.51E-08 | 1.19E-08 | 1.19E-08 | 5.87E-09 | 1.32E-07 |
| 2199 | 258106.21 | 4085331.74 | 8.33E-08 | 1.11E-06 | 1.85E-07 | 1.85E-07 | 9.18E-08 | 1.62E-06 | 1.26E-08 | 1.69E-07 | 2.57E-08 | 2.57E-08 | 1.41E-08 | 2.48E-07 | 6.87E-09 | 9.17E-08 | 1.14E-08 | 1.14E-08 | 5.66E-09 | 1.27E-07 |
| 2200 | 258130.49 | 4085330.67 | 7.99E-08 | 1.07E-06 | 1.58E-07 | 1.58E-07 | 8.80E-08 | 1.55E-06 | 1.21E-08 | 1.62E-07 | 2.46E-08 | 2.46E-08 | 1.35E-08 | 2.37E-07 | 6.58E-09 | 6.79E-08 | 1.10E-08 | 1.10E-08 | 5.43E-09 | 1.22E-07 |
| 2201 | 258154.77 | 4085329.59 | 7.61E-08 | 1.02E-06 | 1.50E-07 | 1.50E-07 | 8.38E-08 | 1.48E-06 | 1.15E-08 | 1.35E-07 | 2.35E-08 | 2.33E-08 | 1.29E-08 | 2.26E-07 | 6.27E-08 | 8.38E-08 | 1.04E-08 | 1.04E-08 | 5.17E-09 | 1.16E-07 |
| 2202 | 258179.05 | 4085326.52 | 7.70E-08 | 9.61E-07 | 1.42E-07 | 1.42E-07 | 7.93E-08 | 1.40E-06 | 1.09E-08 | 1.46E-07 | 2.22E-08 | 2.22E-08 | 1.22E-08 | 2.14E-07 | 5.93E-09 | 7.92E-08 | 9.88E-09 | 9.88E-09 | 4.89E-09 | 1.10E-07 |
| 2203 | 258203.34 | 4085327.44 | 6.76E-08 | 9.03E-07 | 1.34E-07 | 1.34E-07 | 7.45E-08 | 1.31E-06 | 1.03E-08 | 1.38E-07 | 2.09E-08 | 2.09E-08 | 1.15E-08 | 2.01E-07 | 5.57E-09 | 7.44E-08 | 9.28E-09 | 9.28E-09 | 4.59E-09 | 1.03E-07 |
| 2204 | 258227.62 | 4085326.37 | 6.30E-08 | 6.41E-07 | 1.24E-07 | 1.24E-07 | 6.94E-08 | 1.22E-06 | 9.56E-09 | 1.28E-07 | 1.94E-08 | 1.94E-08 | 1.07E-08 | 1.87E-07 | 5.19E-09 | 6.93E-08 | 8.63E-08 | 6.63E-09 | 4.28E-09 | 9.61E-08 |
| 2205 | 258251.9 | 4085325.29 | 5.83E-08 | 7.79E-07 | 1.15E-07 | 1.15E-07 | 6.43E-08 | 1.13E-06 | 8.85E-09 | 1.19E-07 | 1.80E-08 | 1.80E-08 | 9.90E-09 | 1.73E-07 | 4.81E-09 | 6.42E-08 | 8.01E-09 | 8.01E-09 | 3.96E-09 | 8.90E-08 |
| 2206 | 258276.16 | 4085324.22 | 5.37E-08 | 7.18E-07 | 1.06E-07 | 1.06E-07 | 5.92E-08 | 1.04E-06 | 6.15E-09 | 1.09E-07 | 1.66E-08 | 1.66E-08 | 9.11E-09 | 1.60E-07 | 4.42E-09 | 5.92E-08 | 7.38E-09 | 7.38E-09 | 3.65E-09 | 8.20E-08 |
| 2207 | 258300.46 | 4085323.14 | 4.92E-08 | 6.57E-07 | 9.72E-08 | 9.77E-

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003 | 257831.57 | 4085168.75 | 5.16E-07 | 6.92E-06 | 1.02E-06 | 1.02E-06 | 5.71E-07 | 1.01E-05 | 7.86E-08 | 1.05E-06 | 1.60E-07 | 1.60E-07 | 8.76E-08 | 1.54E-06 | 4.27E-08 | 5.70E-07 | 7.11E-08 | 7.11E-08 | 3.52E-08 | 7.90E-07 |
| 2004 | 257855.65 | 4085167.67 | 5.19E-07 | 6.93E-06 | 1.03E-06 | 1.03E-06 | 5.72E-07 | 1.01E-05 | 7.87E-08 | 1.06E-06 | 1.60E-07 | 1.60E-07 | 6.80E-08 | 1.54E-06 | 4.28E-08 | 5.71E-07 | 7.12E-08 | 7.12E-08 | 3.53E-08 | 7.92E-07 |
| 2005 | 257879.93 | 4085166.59 | 5.19E-07 | 6.94E-06 | 1.03E-06 | 1.03E-06 | 5.72E-07 | 1.01E-05 | 7.88E-08 | 1.06E-06 | 1.60E-07 | 1.60E-07 | 6.81E-08 | 1.54E-06 | 4.28E-08 | 5.72E-07 | 7.13E-08 | 7.13E-08 | 3.53E-08 | 7.92E-07 |
| 2006 | 257904.21 | 4085165.52 | 5.19E-07 | 6.93E-06 | 1.03E-06 | 1.03E-06 | 5.72E-07 | 1.01E-05 | 7.88E-08 | 1.06E-06 | 1.60E-07 | 1.60E-07 | 8.81E-08 | 1.54E-06 | 4.28E-08 | 5.77E-07 | 7.13E-08 | 7.13E-08 | 3.53E-08 | 7.92E-07 |
| 2007 | 257928.49 | 4085164.44 | 5.19E-07 | 6.93E-06 | 1.03E-06 | 1.03E-06 | 5.71E-07 | 1.01E-05 | 7.67E-08 | 1.06E-06 | 1.60E-07 | 1.60E-07 | 8.60E-08 | 1.54E-06 | 4.26E-08 | 5.71E-07 | 7.12E-08 | 7.12E-08 | 3.52E-08 | 7.92E-07 |
| 2008 | 257952.78 | 4085163.37 | 5.18E-07 | 6.92E-06 | 1.02E-06 | 1.02E-06 | 5.70E-07 | 1.00E-05 | 7.86E-08 | 1.05E-06 | 1.60E-07 | 1.60E-07 | 8.76E-08 | 1.54E-06 | 4.27E-08 | 5.70E-07 | 7.11E-08 | 7.11E-08 | 3.52E-08 | 7.90E-07 |
| 2009 | 257977.06 | 4085162.29 | 5.16E-07 | 6.89E-06 | 1.02E-08 | 1.02E-06 | 5.69E-07 | 1.00E-05 | 7.83E-08 | 1.05E-06 | 1.59E-07 | 1.59E-07 | 8.76E-06 | 1.53E-06 | 4.25E-08 | 5.68E-07 | 7.09E-08 | 7.09E-08 | 3.51E-08 | 7.88E-07 |
| 2010 | 258001.34 | 4085161.22 | 5.14E-07 | 6.87E-06 | 1.02E-06 | 1.02E-06 | 5.67E-07 | 9.98E-06 | 7.80E-08 | 1.05E-06 | 1.59E-07 | 1.59E-07 | 8.72E-08 | 1.53E-06 | 4.24E-08 | 5.66E-07 | 7.06E-08 | 7.06E-08 | 3.49E-08 | 7.85E-07 |
| 2011 | 258025.62 | 4085160.14 | 5.12E-07 | 6.84E-06 | 1.01E-06 | 1.01E-06 | 5.64E-07 | 9.94E-06 | 7.77E-08 | 1.04E-06 | 1.58E-07 | 1.56E-07 | 6.68E-06 | 1.52E-06 | 4.22E-08 | 5.64E-07 | 7.03E-08 | 7.03E-08 | 3.48E-08 | 7.81E-07 |
| 2012 | 258049.9 | 4085159.07 | 5.09E-07 | 6.80E-05 | 1.01E-08 | 1.01E-06 | 5.61E-07 | 9.88E-06 | 7.72E-08 | 1.04E-06 | 1.57E-07 | 1.57E-07 | 8.63E-08 | 1.51E-06 | 4.19E-08 | 5.60E-07 | 6.99E-08 | 6.99E-08 | 3.46E-08 | 7.76E-07 |
| 2013 | 258074.18 | 4085157.99 | 5.05E-07 | 6.74E-06 | 9.97E-07 | 9.97E-07 | 5.56E-07 | 9.80E-06 | 7.66E-08 | 1.03E-06 | 1.56E-07 | 1.56E-07 | 8.56E-08 | 1.50E-06 | 4.16E-08 | 5.56E-07 | 6.93E-08 | 6.93E-08 | 3.43E-08 | 7.70E-07 |
| 2014 | 258098.47 | 4085156.92 | 4.92E-07 | 6.57E-06 | 9.71E-07 | 9.71E-07 | 5.42E-07 | 9.54E-06 | 7.46E-08 | 1.00E-06 | 1.52E-07 | 1.52E-07 | 8.34E-08 | 1.46E-06 | 4.05E-08 | 5.41E-07 | 6.75E-08 | 6.75E-08 | 3.34E-08 | 7.50E-07 |
| 2015 | 258122.75 | 4085155.84 | 4.65E-07 | 6.48E-06 | 9.59E-07 | 9.59E-07 | 5.34E-07 | 9.42E-06 | 7.36E-08 | 9.87E-07 | 1.50E-07 | 1.50E-07 | 8.23E-08 | 1.44E-06 | 4.00E-08 | 5.34E-07 | 6.66E-08 | 6.66E-08 | 3.30E-08 | 7.40E-07 |
| 2016 | 258147.03 | 4085154.76 | 4.77E-07 | 6.38E-06 | 9.44E-07 | 9.44E-07 | 5.26E-07 | 9.27E-06 | 7.25E-08 | 9.77E-07 | 1.47E-07 | 1.47E-07 | 8.10E-08 | 1.42E-06 | 3.94E-08 | 5.26E-07 | 6.56E-08 | 6.56E-08 | 3.24E-08 | 7.29E-07 |
| 2017 | 258171.51 | 4085153.69 | 4.68E-07 | 6.25E-06 | 9.25E-07 | 9.25E-07 | 5.16E-07 | 9.08E-06 | 7.10E-08 | 9.52E-07 | 1.44E-07 | 1.44E-07 | 7.94E-08 | 1.39E-06 | 3.86E-06 | 5.15E-07 | 6.42E-08 | 6.42E-08 | 3.16E-08 | 7.14E-07 |
| 2016 | 258195.59 | 4085152.61 | 4.56E-07 | 6.09E-06 | 9.01E-07 | 9.01E-07 | 5.02E-07 | 8.85E-08 | 6.92E-08 | 9.27E-07 | 1.41E-07 | 1.41E-07 | 7.73E-08 | 1.36E-06 | 3.76E-08 | 5.02E-07 | 6.26E-08 | 6.26E-08 | 3.10E-08 | 6.95E-07 |
| 2019 | 258219.88 | 4085151.54 | 4.40E-07 | 5.88E-06 | 8.69E-07 | 8.69E-07 | 4.85E-07 | 6.54E-06 | 6.66E-08 | 6.95E-07 | 1.36E-07 | 1.36E-07 | 7.46E-08 | 1.31E-06 | 3.63E-08 | 4.84E-07 | 6.04E-08 | 6.04E-08 | 2.99E-08 | 6.71E-07 |
| 2020 | 258244.16 | 4085150.46 | 4.19E-07 | 5.60E-08 | 8.29E-07 | 8.29E-07 | 4.62E-07 | 8.14E-06 | 6.36E-08 | 8.53E-07 | 1.29E-07 | 1.29E-07 | 7.11E-08 | 1.25E-06 | 3.46E-08 | 4.62E-07 | 5.76E-08 | 5.76E-08 | 2.85E-08 | 6.40E-07 |
| 2021 | 258268.44 | 4085149.39 | 3.92E-07 | 5.23E-06 | 7.74E-07 | 7.74E-07 | 4.52E-07 | 7.60E-06 | 5.94E-08 | 7.97E-07 | 1.21E-07 | 1.21E-07 | 6.64E-08 | 1.16E-06 | 3.23E-08 | 4.51E-07 | 5.38E-08 | 5.38E-08 | 2.66E-08 | 5.98E-07 |
| 2022 | 258292.72 | 4085148.31 | 3.54E-07 | 4.73E-06 | 7.00E-07 | 7.00E-07 | 3.90E-07 | 6.87E-06 | 5.37E-08 | 7.21E-07 | 1.09E-07 | 1.09E-07 | 6.01E-08 | 1.05E-06 | 2.92E-08 | 3.90E-07 | 4.86E-08 | 4.86E-08 | 2.41E-08 | 5.40E-07 |
| 2023 | 258317 | 4085147.24 | 3.02E-07 | 4.04E-06 | 5.97E-07 | 5.97E-07 | 3.33E-07 | 5.87E-06 | 4.59E-08 | 6.15E-07 | 9.33E-08 | 9.33E-08 | 5.13E-08 | 6.99E-07 | 2.49E-08 | 3.33E-07 | 4.15E-08 | 4.15E-08 | 2.05E-08 | 4.61E-07 |
| 2024 | 258341.28 | 4085146.16 | 2.55E-07 | 3.14E-06 | 4.65E-07 | 4.65E-07 | 2.59E-07 | 4.57E-06 | 3.57E-08 | 4.79E-07 | 7.25E-08 | 7.26E-08 | 3.99E-08 | 7.00E-07 | 1.94E-08 | 2.59E-07 | 3.23E-08 | 3.23E-08 | 1.60E-08 | 3.58E-07 |
| 2025 | 258365.57 | 4085145.09 | 1.69E-07 | 2.26E-06 | 3.35E-07 | 3.35E-07 | 1.87E-07 | 3.29E-06 | 2.57E-08 | 3.45E-07 | 5.23E-08 | 5.23E-08 | 2.87E-08 | 5.04E-07 | 1.40E-08 | 1.87E-07 | 2.33E-08 | 2.53E-08 | 1.15E-08 | 2.59E-07 |
| 2026 | 257547.52 | 4085196.96 | 2.39E-07 | 3.20E-06 | 4.73E-07 | 4.73E-07 | 2.64E-07 | 4.64E-08 | 3.63E-08 | 4.67E-07 | 7.38E-08 | 7.58E-08 | 4.06E-08 | 7.11E-07 | 1.97E-08 | 2.63E-07 | 3.28E-08 | 3.28E-08 | 1.63E-08 | 3.65E-07 |
| 2027 | 257589.65 | 4085204.46 | 2.76E-07 | 3.72E-06 | 5.50E-07 | 5.50E-07 | 3.07E-07 | 5.40E-06 | 4.22E-08 | 5.66E-07 | 8.59E-08 | 8.59E-08 | 4.72E-08 | 8.27E-07 | 2.29E-08 | 3.06E-07 | 3.82E-08 | 3.82E-08 | 1.69E-08 | 4.25E-07 |
| 2028 | 257613.94 | 4085203.4 | 2.99E-07 | 3.99E-06 | 5.91E-07 | 5.91E-07 | 3.29E-07 | 5.80E-06 | 4.54E-08 | 6.08E-07 | 9.22E-08 | 9.22E-08 | 5.07E-08 | 8.69E-07 | 2.46E-06 | 3.29E-07 | 4.10E-08 | 4.10E-08 | 2.03E-08 | 4.56E-07 |
| 2029 | 257638.22 | 4085202.52 | 3.14E-07 | 4.19E-06 | 6.20E-07 | 6.20E-07 | 3.45E-07 | 6.09E-06 | 4.76E-08 | 6.38E-07 | 9.67E-08 | 9.67E-08 | 5.32E-08 | 9.32E-07 | 2.58E-08 | 3.45E-07 | 4.30E-08 | 4.30E-08 | 2.13E-08 | 4.76E-07 |
| 2030 | 257682.5 | 4085201.25 | 3.24E-07 | 4.33E-06 | 6.40E-07 | 6.40E-07 | 3.57E-07 | 6.29E-06 | 4.92E-08 | 6.59E-07 | 1.00E-07 | 1.00E-07 | 5.50E-08 | 9.63E-07 | 2.67E-08 | 3.57E-07 | 4.45E-08 | 4.45E-08 | 2.20E-08 | 4.94E-07 |
| 2031 | 257686.78 | 4085200.17 | 3.32E-07 | 4.43E-06 | 6.56E-07 | 6.56E-07 | 3.66E-07 | 6.44E-06 | 5.04E-08 | 6.75E-07 | 1.02E-07 | 1.02E-07 | 5.63E-08 | 9.67E-07 | 2.74E-08 | 3.65E-07 | 4.56E-08 | 4.56E-08 | 2.25E-08 | 5.06E-07 |
| 2032 | 257711.06 | 4085199.1 | 3.36E-07 | 4.51E-06 | 6.67E-07 | 6.67E-07 | 3.72E-07 | 6.58E-08 | 5.13E-08 | 6.87E-07 | 1.04E-07 | 1.04E-07 | 5.73E-08 | 1.00E-06 | 2.78E-08 | 3.77E-07 | 4.64E-08 | 4.64E-08 | 2.30E-08 | 5.15E-07 |
| 2033 | 257735.35 | 4085198.02 | 3.42E-07 | 4.57E-06 | 6.76E-07 | 6.76E-07 | 3.77E-07 | 6.64E-06 | 5.20E-08 | 6.97E-07 | 1.06E-07 | 1.06E-07 | 5.61E-08 | 1.02E-06 | 2.82E-08 | 3.77E-07 | 4.70E-08 | 4.70E-08 | 2.33E-08 | 5.22E-07 |
| 2034 | 257759.63 | 4085196.95 | 3.46E-07 | 4.62E-06 | 6.83E-07 | 6.83E-07 | 3.81E-07 | 6.71E-05 | 5.25E-08 | 7.04E-07 | 1.07E-07 | 1.07E-07 | 5.87E-08 | 1.03E-06 | 2.85E-08 | 3.81E-07 | 4.75E-08 | 4.75E-08 | 2.35E-08 | 5.28E-07 |
| 2035 | 257783.91 | 4085195.87 | 3.49E-07 | 4.68E-06 | 6.89E-07 | 6.89E-07 | 3.84E-07 | 6.77E-06 | 5.29E-08 | 7.09E-07 | 1.08E-07 | 1.08E-07 | 5.91E-08 | 1.04E-06 | 2.87E-08 | 3.84E-07 | 4.78E-08 | 4.78E-08 | 2.37E-08 | 5.52E-07 |
| 2036 | 257808.19 | 4085194.8 | 3.51E-07 | 4.68E-06 | 6.93E-07 | 6.93E-07 | 3.86E-07 | 6.80E-06 | 5.52E-08 | 7.13E-07 | 1.08E-07 | 1.08E-07 | 5.95E-08 | 1.04E-06 | 2.89E-08 | 3.86E-07 | 4.81E-08 | 4.81E-08 | 2.38E-08 | 5.35E-07 |
| 2037 | 257832.47 | 4085193.72 | 3.52E-07 | 4.70E-06 | 6.96E-07 | 6.96E-07 | 3.88E-07 | 6.83E-08 | 5.54E-08 | 7.16E-07 | 1.09E-07 | 1.09E-07 | 5.97E-08 | 1.05E-06 | 2.90E-08 | 3.88E-07 | 4.83E-08 | 4.83E-08 | 2.39E-08 | 5.37E-07 |
| 2038 | 257856.75 | 4085192.65 | 3.53E-07 | 4.71E-06 | 6.97E-07 | 6.97E-07 | 3.89E-07 | 6.85E-08 | 5.36E-08 | 7.18E-07 | 1.09E-07 | 1.09E-07 | 5.99E-08 | 1.05E-06 | 2.91E-08 | 3.89E-07 | 4.84E-08 | 4.84E-08 | 2.40E-08 | 5.36E-07 |
| 2039 | 257881.04 | 4085191.57 | 3.53E-07 | 4.72E-06 | 6.98E-07 | 6.98E-07 | 3.89E-07 | 6.86E-06 | 5.36E-08 | 7.19E-07 | 1.09E-07 | 1.09E-07 | 5.99E-08 | 1.05E-06 | 2.91E-08 | 3.89E-07 | 4.85E-08 | 4.85E-08 | 2.40E-08 | 5.39E-07 |
| 2040 | 257905.52 | 4085190.49 | 3.53E-07 | 4.72E-06 | 6.98E-07 | 6.98E-07 | 3.89E-07 | 6.86E-06 | 5.36E-08 | 7.19E-07 | 1.09E-07 | 1.09E-07 | 5.99E-08 | 1.05E-08 | 2.91E-08 | 3.89E-07 | 4.85E-08 | 4.85E-08 | 2.40E-08 | 5.39E-07 |
| 2041 | 257929.6 | 4085189.42 | 3.53E-07 | 4.71E-06 | 6.97E-07 | 6.97E-07 | 3.89E-07 | 6.85E-06 | 5.36E-08 | 7.18E-07 | 1.09E-07 | 1.09E-07 | 5.99E-08 | 1.05E-06 | 2.91E-08 | 3.88E-07 | 4.84E-08 | 4.84E-08 | 2.40E-08 | 5.38E-07 |
| 2042 | 257953.88 | 4085188.54 | 3.52E-07 | 4.70E-06 | 6.96E-07 | 6.96E-07 | 3.88E-07 | 6.83E-06 | 5.34E-08 | 7.18E-07 | 1.09E-07 | 1.09E-07 | 5.97E-08 | 1.05E-06 | 2.90E-08 | 3.88E-07 | 4.83E-08 | 4.83E-08 | 2.39E-06 | 5.37E-07 |
| 2043 | 257978.16 | 4085187.27 | 3.46E-07 | 4.62E-06 | 6.84E-07 | 6.84E-07 | 3.61E-07 | 6.77E-08 | 5.25E-08 | 7.04E-07 | 1.07E-07 | 1.07E-07 | 5.87E-08 | 1.03E-06 | 2.85E-08 | 3.81E-07 | 4.75E-08 | 4.75E-08 | 2.35E-08 | 5.26E-07 |
| 2044 | 258002.45 | 4085186.19 | 3.44E-07 | 4.60E-06 | 6.80E-07 | 6.80E-07 | 3.79E-07 | 6.68E-06 | 5.22E-08 | 7.00E-07 | 1.06E-07 | 1.06E-07 | 5.84E-08 | 1.02E-06 | 2.84E-08 | 3.79E-07 | 4.73E-08 | 4.73E-08 | 2.34E-08 | 5.25E-07 |
| 2045 | 258026.73 | 4085185.12 | 3.42E-07 | 4.56E-06 | 6.75E-07 | 6.75E-07 | 3.77E-07 | 6.63E-06 | 5.19E-08 | 6.95E-07 | 1.05E-07 | 1.05E-07 | 5.80E-08 | 1.02E-06 | 2.82E-08 | 3.76E-07 | 4.69E-08 | 4.69E-08 | 2.32E-06 | 5.21E-07 |
| 2046 | 258051.01 | 4085184.04 | 3.59E-07 | 4.52E-06 | 6.69E-07 | 6.69E-07 | 3.73E-07 | 6.57E-06 | 5.14E-08 | 6.89E-07 | 1.04E-07 | 1.04E-07 | 5.74E-08 | 1.01E-06 | 2.79E-08 | 3.73E-07 | 4.65E-08 | 4.65E-08 | 2.50E-08 | 5.17E-07 |
| 2047 | 258075.29 | 4085182.97 | 3.35E-07 | 4.47E-06 | 6.61E-07 | 6.61E-07 | 3.69E-07 | 6.50E-06 | 5.08E-08 | 6.61E-07 | 1.03E-07 | 1.03E-07 | 5.68E-08 | 9.95E-07 | 2.76E-08 | 3.68E-07 | 4.59E-08 | 4.59E-08 | 2.27E-08 | 5.11E-07 |
| 2048 | 258099.57 | 4085181.89 | 3.30E-07 | 4.40E-06 | 6.52E-07 | 6.52E-07 | 3.63E-07 | 6.40E-06 | 5.00E-08 | 6.71E-07 | 1.02E-07 | 1.02E-07 | 5.59E-08 | 9.80E-07 | 2.72E-08 | 3.63E-07 | 4.53E-08 | 4.53E-08 | 2.24E-06 | 5.03E-07 |
| 2049 | 258123.85 | 4085180.82 | 3.24E-07 | 4.32E-06 | 6.40E-07 | 6.40E-07 | 3.57E-07 | 6.28E-06 | 4.91E-08 | 6.59E-07 | 9.99E-08 | 9.99E-08 | 5.49E-08 | 9.62E-07 | 2.67E-08 | 3.56E-07 | 4.44E-08 | 4.44E-08 | 2.20E-08 | 4.94E-07 |
| 2050 | 258148.14 | 4085179.74 | 3.16E-07 | 4.22E-06 | 6.25E-07 | 6.25E-07 | 3.48E-07 | 6.14E-06 | 4.80E-08 | 6.43E-07 | 9.76E-08 | 9.76E-08 | 5.36E-08 | 9.40E-07 | 2.61E-08 | 3.48E-07 | 4.34E-08 | 4.34E-08 | 2.15E-08 | 4.83E-07 |
| 2051 | 258172.42 | 4085178.66 | 3.07E-07 | 4.10E-06 | 6.07E-07 | 6.07E-07 | 3.38E-07 | 5.96E-06 | 4.68E-08 | 6.25E-07 | 9.47E-08 | 9.47E-08 | 5.21E-08 | 9.13E-07 | 2.53E-08 | 3.38E-07 | 4.21E-08 | 4.21E-08 | 2.09E-08 | 4.69E-07 |
| 2052 | 258196.7 | 4085177.59 | 2.96E-07 | 3.95E-06 | 5.84E-07 | 5.84E-07 | 3.26E-07 | 5.74E-06 | 4.49E-08 | 6.01E-07 | 9.12E-08 | 9.12E-08 | 5.01E-08 | 8.79E-07 | 2.44E-08 | 3.25E-07 | 4.06E-08 | 4.06E-08 | 2.01E-08 | 4.51E-07 |
| 2053 | 258220.98 | 4085176.51 | 2.81E-07 | 3.76E-05 | 5.58E-07 | 5.56E-07 | 3.10E-07 | 5.46E-06 | 4.27E-08 | 5.72E-07 | 6.68E-08 | 6.68E-08 | 4.77E-08 | 8.36E-07 | 2.52E-08 | 3.10E-07 | 3.86E-08 | 3.88E-08 | 1.91E-08 | 4.29E-07 |
| 2054 | 258245.26 | 4085175.44 | 2.63E-07 | 3.52E-06 | 5.20E-07 | 5.20E-07 | 2.90E-07 | 5.11E-06 | 4.00E-08 | 5.36E-07 | 8.13E-08 | 6.13E-08 | 4.47E-08 | 7.83E-07 | 2.17E-08 | 2.90E-07 | 3.62E-08 | 3.62E-08 | 1.79E-08 | 4.02E-07 |
| 2055 | 258269.55 | 4085174.36 | 2.41E-07 | 3.22E-06 | 4.77E-07 | 4.77E-07 | 2.68E-07 | 4.68E-06 | 3.66E-08 | 4.91E-07 | 7.44E-08 | 7.44E-08 | 4.09E-08 | 7.17E-07 | 1.99E-08 | 2.65E-07 | 3.51E-08 | 3.31E-08 | 1.64E-08 | 3.68E-07 |
| 2056 | 258293.83 | 4085173.29 | 2.14E-07 | 2.86E-06 | 4.23E-07 | 4.23E-07 | 2.36E-07 | 4.15E-06 | 3.25E-08 | 4.35E-07 | 6.60E-08 | 6.60E-08 | 3.63E-08 | 6.56E-07 | 1.76E-08 | 2.55E-07 | 2.94E-08 | 2.94E-08 | 1.45E-08 | 3.26E-07 |
| 2057 | 258318.11 | 4085172.21 | 1.82E-07 | 2.43E-06 | 3.59E-07 | 3.59E-07 | 2.00E-07 | 3.53E-06 | 2.76E-08 | 3.70E-07 | 5.61E-08 | 5.61E-08 | 3.06E-08 | 5.41E-07 | 1.50E-08 | 2.00E-07 | 2.50E-08 | 2.50E-08 | 1.24E-08 | 2.77E-07 |
| 2058 | 258342.39 | 4085171.14 | 1.43E-07 | 1.97E-06 | 2.92E-07 | 2.92E-07 | 1.63E-07 | 2.86E-06 | 2.24E-08 | 3.00E-07 | 4.55E-08 | 4.55E-08 | 2.50E-08 | 4.39E-07 | 1.22E-08 | 1.62E-07 | 2.03E-08 | 2.03E-08 | 1.00E-08 | 2.25E-07 |
| 2059 | 257548.43 | 4085223.93 | 1.91E-07 | 2.55E-06 | 3.77E-07 | 3.77E-07 | 2.10E-07 | 3.70E-06 | 2.89E-08 | 3.88E-07 | 5.88E-08 | 5.88E-08 | 3.23E-08 | 5.67E-07 | 1.57E-06 | 2.10E-07 | 2.63E-08 | 2.62E-08 | 1.30E-08 | 2.91E-07 |
| 2060 | 257504.29 | 4085193.29 | 1.71E-07 | 2.28E-06 | 3.38E-07 | 3.38E-07 | 1.88E-07 | 3.32E-06 | 2.59E-08 | 3.48E-07 | 5.27E-08 | 5.27E-08 | 2.90E-08 | 5.08E-07 | 1.41E-08 | 1.88E-07 | 2.53E-08 | 2.35E-08 | 1.16E-08 | 2.61E-07 |
| 2061 | 257590.76 | 4085229.45 | 2.12E-07 | 2.83E-06 | 4.16E-07 | 4.18E-07 | 2.33E-07 | 4.11E-06 | 3.21E-08 | 4.51E-07 | 6.53E-08 | 6.53E-08 | 3.59E-08 | 6.29E-07 | 1.74E-08 | 2.53E-07 | 2.91E-08 | 2.91E-08 | 1.44E-08 | 3.23E-07 |
| 2062 | 257615.04 | 4085226.38 | 2.25E-07 | 3.00E-06 | 4.44E-07 | 4.44E-07 | 2.48E-07 | 4.36E-06 | 3.41E-08 | 4.57E-07 | 6.94E-08 | 6.94E-08 | 3.81E-08 | 6.68E-07 | 1.85E-08 | 2.48E-07 | 3.09E-08 | 3.09E-08 | 1.53E-08 | 3.43E-07 |
| 2063 | 257639.32 | 4085227.3 | 2.35E-07 | 3.14E-06 | 4.64E-07 | 4.64E-07 | 2.59E-07 | 4.56E-08 | 3.56E-08 | 4.78E-07 | 7.25E-08 | 7.25E-08 | 3.96E-08 | 6.98E-07 | 1.94E-08 | 2.59E-07 | 3.22E-08 | 3.22E-08 | 1.60E-08 | 3.58E-07 |
| 2064 | 257663.61 | 4085226.22 | 2.43E-07 | 3.24E-06 | 4.79E-07 | 4.79E-07 | 2.67E-07 | 4.71E-06 | 3.68E-08 | 4.94E-07 | 7.48E-08 | 7.48E-08 | 4.11E-08 | 7.21E-07 | 2.00E-06 | 2.67E-07 | 3.33E-08 | 3.53E-08 | 1.65E-08 | 3.70E-07 |
| 2065 | 257687.89 | 4085225.15 | 2.48E-07 | 3.32E-06 | 4.91E-07 | 4.91E-07 | 2.74E-07 | 4.82E-06 | 3.77E-08 | 5.06E-07 | 7.67E-08 | 7.67E-08 | 4.21E-08 | 7.39E-07 | 2.05E-06 | 2.74E-07 | 3.41E-08 | 3.41E-08 | 1.69E-08 | 3.79E-07 |
| 2066 | 257712.17 | 4085224.07 | 2.53E-07 | 3.38E-06 | 5.00E-07 | 5.00E-07 | 2.79E-07 | 4.91E-06 | 3.64E-08 | 5.15E-07 | 7.81E-08 | 7.81E-08 | 4.29E-08 | 7.52E-07 | 2.09E-08 | 2.79E-07 | 3.47E-08 | 3.47E-08 | 1.72E-08 | 3.86E-07 |
| 2067 | 257736.45 | 4085223 | 2.56E-07 | 3.43E-06 | 5.07E-07 | 5.07E-07 | 2.83E-07 | 4.98E-06 | 3.89E-08 | 5.22E-07 | 7.91E-08 | 7.91E-08 | 4.53E-08 | 7.63E-07 | 2.11E-06 | 2.82E-07 | 3.52E-08 | 3.52E-08 | 1.74E-08 | 3.91E-07 |
| 2068 | 257760.73 | 4085221.92 | 2.59E-07 | 3.46E-06 | 5.12E-07 | 5.12E-07 | 2.86E-07 | 5.03E-06 | 3.93E-08 | 5.26E-07 | 8.00E-08 | 8.00E-08 | 4.40E-08 | 7.71E-07 | 2.14E-08 | 2.85E-07 | 3.56E-08 | 3.56E-08 | 1.76E-08 | 3.96E-07 |
| 2069 | 257785.01 | 4085220.85 | 2.61E-07 | 3.49E-06 | 5.16E-07 | 5.16E-07 | 2.88E-07 | 5.07E-06 | 3.97E-08 | 5.32E-07 | 8.06E-08 | 8.06E-08 | 4.43E-08 | 7.77E-07 | 2.15E-06 | 2.88E-07 | 3.59E-08 | 3.59E-08 | 1.76E-08 | 3.99E-07 |
| 2070 | 257809.3 | 4085219.77 | 2.63E-07 | 3.51E-06 | 5.19E-07 | 5.19E-07 | 2.90E-07 | 5.10E-06 | 3.99E-08 | 5.35E-07 | 8.11E-08 | 8.11E-08 | 4.46E-08 | 7.82E-07 | 2.17E-08 | 2.89E-07 | 3.61E-08 | 3.61E-08 | 1.79E-08 | 4.01E-07 |
| 2071 | 257833.58 | 4085216.7 | 2.64E-07 | 3.52E-06 | 5.22E-07 | 5.22E-07 | 2.91E-07 | 5.12E-06 | 4.01E-08 | 5.37E-07 | 8.14E-08 | 8.14E-08 | 4.48E-08 | 7.85E-07 | 2.18E-08 | 2.91E-07 | 3.62E-08 | 3.62E-08 | 1.79E-08 | 4.03E-07 |
| 2072 | 257857.86 | 4085217.62 | 2.65E-07 | 3.53E-06 | 5.23E-07 | 5.23E-07 | 2.91E-07 | 5.14E-08 | 4.01E-08 | 5.38E-07 | 8.16E-08 | 8.16E-08 | 4.49E-08 | 7.87E-07 | 2.16E-06 | 2.91E-07 | 3.63E-08 | 3.63E-08 | 1.80E-08 | 4.04E-07 |
| 2073 | 257882.14 | 4085216.55 | 2.65E-07 | 3.54E-06 | 5.23E-07 | 5.23E-07 | 2.92E-07 | 5.14E-08 | 4.02E-08 | 5.39E-07 | 8.17E-08 | 8.17E-08 | 4.49E-08 | 7.67E-07 | 2.18E-06 | 2.91E-07 | 3.63E-08 | 3.63E-08 | 1.80E-08 | 4.04E-07 |
| 2074 | 257906.42 | 4085215.47 | 2.64E-07 | 3.52E-06 | 5.21E-07 | 5.21E-07 | 2.90E-07 | 5.12E-06 | 4.00E-08 | 5.36E-07 | 8.13E-08 | 8.13E-08 | 4.47E-08 | 7.84E-07 | 2.17E-08 | 2.90E-07 | 3.62E-08 | 3.62E-08 | 1.79E-08 | 4.02E-07 |
| 2075 | 257930.71 | 4085214.39 | 2.61E-07 | 3.49E-06 | 5.16E-07 | 5.16E-07 | 2.88E-07 | 5.07E-06 | 3.96E-08 | 5.31E-07 | 8.06E-08 | 8.06E-08 | 4.43E-08 | 7.76E-07 | 2.15E-08 | 2.88E-07 | 3.58E-08 | 3.58E-08 | 1.77E-08 | 3.98E-07 |
| 2076 | 257954.99 | 4085213.32 | 2.60E-07 | 3.47E-06 | 5.14E-07 | 5.14E-07 | 2.87E-07 | 5.05E-06 | 3.95E-08 | 5.29E-07 | 8.02E-08 | 8.02E-08 | 4.41E-08 | 7.73E-07 | 2.14E-08 | 2.86E-07 | 3.57E-08 | 3.57E-08 | 1.77E-08 | 3.97E-07 |
| 2077 | 257979.27 | 4085212.24 | 2.59E-07 | 3.45E-06 | 5.11E-07 | 5.11E-07 | 2.85E-07 | 5.02E-06 | 3.92E-08 | 5.26E-07 | 7.98E-08 | 7.98E-08 | 4.39E-08 | 7.69E-07 | 2.13E-08 | 2.85E-07 | 3.55E-08 | 3.55E-08 | 1.76E-08 | 3.95E-07 |
| 2078 | 258003.55 | 4085211.17 | 2.57E-07 | 3.43E-06 | 5.07E-07 | 5.07E-07 | 2.83E-07 | 4.98E-06 | 3.89E-08 | 5.22E-07 | 7.92E-08 | 7.92E-08 | 4.35E-08 | 7.63E-07 | 2.11E-08 | 2.82E-07 | 3.52E-08 | 3.52E-08 | 1.74E-08 | 3.91E-07 |
| 2079 | 258027.83 | 4085210.09 | 2.54E-07 | 3.39E-06 | 5.02E-07 | 5.02E-07 | 2.80E-07 | 4.93E-06 | 3.85E-08 | 5.17E-07 | 7.84E-08 | 7.84E-08 | 4.31E-08 | 7.55E-07 | 2.09E-08 | 2.80E-07 | 3.49E-08 | 3.49E-08 | 1.73E-08 | 3.86E-07 |
| 2080 | 258052.11 | 4085209.02 | 2.51E-07 | 3.53E-06 | 4.95E-07 | 4.95E-07 | 2.76E-07 | 4.87E-06 | 3.80E-08 | 5.10E-07 | 7.73E-08 | 7.73E-08 | 4.25E-08 | 7.45E-07 | 2.07E-08 | 2.76E-07 | 3.44E-08 | 3.44E-08 | 1.70E-08 | 3.83E-07 |
| 2081 | 258076.4 | 4085207.94 | 2.47E-07 | 3.30E-06 | 4.88E-07 | 4.88E-07 | 2.72E-07 | 4.79E-08 | 3.74E-08 | 5.02E-07 | 7.61E-08 | 7.61E-08 | 4.18E-08 | 7.34E-07 | 2.03E-08 | 2.72E-07 | 3.39E-08 | 3.39E-08 | 1.68E-08 | 3.76E-07 |
| 2082 | 258100.68 | 4085206.87 | 2.42E-07 | 3.23E-06 | 4.76E-07 | 4.78E-07 | 2.66E-07 | 4.69E-06 | 3.67E-08 | 4.92E-07 | 7.46E-08 | 7.46E-08 | 4.10E-08 | 7.19E-07 | 1.99E-08 | 2.66E-07 | 3.32E-08 | 3.32E-08 | 1.64E-08 | 3.69E-07 |
| 2083 | 258124.96 | 4085205.79 | 2.36E-07 | 3.15E-06 | 4.66E-07 | 4.66E-07 | 2.60E-07 | 4.58E-06 | 3.58E-08 | 4.80E-07 | 7.28E-08 | 7.28E-08 | 4.00E-08 | 7.02E-07 | 1.94E-08 | 2.60E-07 | 3.24E-08 | 3.24E-08 | 1.60E-08 | 3.60E-07 |
| 2084 | 258149.24 | 4085204.77 | 2.29E-07 | 3.06E-06 | 4.52E-07 | 4.52E-07 | 2.52E-07 | 4.44E-06 | 3.47E-08 | 4.66E-07 | 7.06E-08 | 7.06E-08 | 3.88E-08 | 6.61E-07 | 1.89E-08 | 2.52E-07 | 3.14E-08 | 3.14E-08 | 1.56E-08 | 3.49E-07 |
| 2085 | 258173.52 | 4085203.64 | 2.20E-07 | 2.94E-06 | 4.35E-07 | 4.35E-07 | 2.43E-07 | 4.28E-06 | 3.34E-08 | 4.48E-07 | 6.80E-08 | 6.80E-08 | 3.74E-08 | 6.55E-07 | 1.82E-08 | 2.43E-07 | 3.03E-08 | 3.03E-08 | 1.50E-08 | 3.36E-07 |
| 2086 | 258197.81 | 4085702.56 | 2.10E-07 | 2.81E-06 | 4.15E-07 | 4.15E-07 | 2.31E-07 | 4.08E-06 | 3.19E-08 | 4.28E-07 | 6.48E-08 | 6.48E-08 | 3.56E-08 | 6.25E-07 | 1.73E-08 | 2.31E-07 | 2.86E-08 | 2.86E-08 | 1.43E-08 | 3.21E-07 |
| 2087 | 258222.09 | 4085201.49 | 1.98E-07 | 2.64E-06 | 3.91E-07 | 3.91E-07 | 2.18E-07 | 3.84E-06 | 3.00E-06 | 4.02E-07 | 6.10E-08 | 6.10E-08 | 3.36E-08 | 5.88E-07 | 1.63E-08 | 2.16E-07 | 2.77E-08 | 2.72E-08 | 1.34E-08 | 3.02E-07 |
| 2088 | 258246.37 | 4085200.41 | 1.83E-07 | 2.45E-06 | 3.62E-07 | 3.62E-07 | 2.02E-07 | 3.56E-06 | 2.76E-08 | 3.73E-07 | 5.65E-08 | 5.65E-08 | 3.11E-08 | 5.45E-07 | 1.51E-08 | 2.02E-07 | 2.52E-08 | 2.52E-08 | 1.25E-08 | 2.80E-07 |
| 2089 | 258270.65 | 4085199.34 | 1.66E-07 | 2.22E-06 | 3.29E-07 | 3.29E

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1885 | 256462.26 | 4085151.77 | 4.05E-09 | 5.41E-08 | 8.01E-09 | 8.01E-09 | 4.47E-09 | 7.67E-08 |
| 1886 | 256463.91 | 4085196.33 | 4.13E-09 | 5.51E-08 | 8.15E-09 | 6.15E-09 | 4.55E-09 | 8.01E-08 |
| 1887 | 256264.28 | 4084982.52 | 2.88E-09 | 3.85E-08 | 5.69E-09 | 5.69E-09 | 3.17E-09 | 5.59E-08 |
| 1888 | 256279.6 | 4084941.15 | 2.70E-09 | 3.60E-08 | 5.33E-09 | 5.33E-09 | 2.97E-09 | 5.23E-08 |
| 1889 | 256294.92 | 4084899.78 | 2.51E-09 | 3.35E-08 | 4.96E-09 | 4.96E-09 | 2.76E-09 | 4.87E-08 |
| 1890 | 256310.24 | 4084858.42 | 2.34E-09 | 3.12E-08 | 4.62E-09 | 4.62E-09 | 2.56E-09 | 4.54E-08 |
| 1891 | 256325.56 | 4084617.05 | 2.19E-09 | 2.93E-08 | 4.33E-09 | 4.33E-09 | 2.41E-09 | 4.25E-08 |
| 1892 | 256340.87 | 4084775.68 | 2.08E-09 | 2.77E-08 | 4.10E-09 | 4.10E-09 | 2.29E-09 | 4.03E-08 |
| 1893 | 256336.19 | 4084734.31 | 1.98E-09 | 2.65E-08 | 3.92E-09 | 3.92E-09 | 2.19E-09 | 3.85E-08 |
| 1894 | 256371.51 | 4084692.95 | 1.91E-09 | 2.55E-08 | 3.77E-09 | 3.77E-09 | 2.10E-09 | 3.70E-08 |
| 1895 | 256388.83 | 4084651.58 | 1.84E-09 | 2.45E-08 | 3.63E-09 | 3.81E-09 | 2.02E-09 | 3.57E-08 |
| 1896 | 256402.15 | 4084610.21 | 1.76E-09 | 2.35E-08 | 3.48E-09 | 3.48E-09 | 1.94E-09 | 3.42E-08 |
| 1897 | 256417.47 | 4084568.84 | 1.67E-09 | 2.23E-08 | 3.30E-09 | 3.30E-09 | 1.84E-09 | 3.24E-08 |
| 1898 | 256432.79 | 4084527.48 | 1.57E-09 | 2.10E-08 | 3.10E-09 | 3.10E-09 | 1.73E-09 | 3.05E-08 |
| 1899 | 256448.11 | 4084486.11 | 1.46E-09 | 1.95E-08 | 2.88E-09 | 2.88E-09 | 1.61E-09 | 2.85E-08 |
| 1900 | 256463.43 | 4084444.74 | 1.35E-09 | 1.81E-08 | 2.67E-09 | 2.67E-09 | 1.49E-09 | 2.62E-08 |
| 1901 | 256478.74 | 4084403.37 | 1.26E-09 | 1.69E-08 | 2.49E-09 | 2.49E-09 | 1.39E-09 | 2.45E-08 |
| 1902 | 256494.06 | 4064362 | 1.19E-09 | 1.59E-08 | 2.36E-09 | 2.36E-09 | 1.31E-09 | 2.32E-08 |
| 1903 | 256509.38 | 4084320.64 | 1.15E-09 | 1.53E-08 | 2.27E-09 | 2.27E-09 | 1.26E-09 | 2.22E-08 |
| 1904 | 256524.7 | 4084279.27 | 1.12E-09 | 1.49E-08 | 2.21E-09 | 2.21E-09 | 1.23E-09 | 2.17E-08 |
| 1905 | 256540.02 | 4084237.9 | 1.10E-09 | 1.47E-08 | 2.18E-09 | 2.16E-09 | 1.22E-09 | 2.14E-08 |
| 1906 | 256555.34 | 4084196.53 | 1.09E-09 | 1.48E-08 | 2.16E-09 | 2.16E-09 | 1.20E-09 | 2.12E-08 |
| 1907 | 256570.66 | 4084155.17 | 1.09E-09 | 1.45E-08 | 2.15E-09 | 2.15E-09 | 1.20E-09 | 2.11E-08 |
| 1908 | 256565.98 | 4084113.8 | 1.08E-09 | 1.44E-08 | 2.13E-09 | 2.23E-09 | 1.19E-09 | 2.09E-08 |
| 1909 | 256621.32 | 4084063.16 | 1.07E-09 | 1.43E-08 | 2.12E-09 | 2.12E-09 | 1.18E-09 | 2.08E-08 |
| 1910 | 256661.36 | 4084044.68 | 1.08E-09 | 1.44E-08 | 2.13E-09 | 2.13E-09 | 1.19E-09 | 2.10E-08 |
| 1911 | 256701.41 | 4084026.16 | 1.09E-09 | 1.45E-08 | 2.15E-09 | 2.15E-09 | 1.20E-09 | 2.11E-08 |
| 1912 | 256741.46 | 4084007.68 | 1.09E-09 | 1.46E-08 | 2.16E-09 | 2.16E-09 | 1.20E-09 | 2.12E-08 |
| 1913 | 256761.5 | 4083989.18 | 1.10E-09 | 1.47E-08 | 2.17E-09 | 2.17E-09 | 1.21E-09 | 2.13E-08 |
| 1914 | 256821.55 | 4083970.68 | 1.10E-09 | 1.47E-08 | 2.18E-09 | 2.18E-09 | 1.22E-09 | 2.14E-08 |
| 1915 | 256861.59 | 4083952.18 | 1.10E-09 | 1.48E-08 | 2.18E-09 | 2.18E-09 | 1.22E-09 | 2.14E-08 |
| 1916 | 256901.64 | 4083933.68 | 1.10E-09 | 1.47E-08 | 2.18E-09 | 2.18E-09 | 1.22E-09 | 2.14E-08 |
| 1917 | 256941.69 | 4083915.18 | 1.10E-09 | 1.46E-08 | 2.17E-09 | 2.17E-09 | 1.21E-09 | 2.13E-08 |
| 1918 | 256981.73 | 4083896.67 | 1.09E-09 | 1.45E-08 | 2.15E-09 | 2.15E-09 | 1.20E-09 | 2.11E-08 |
| 1919 | 257021.78 | 4083878.17 | 1.08E-09 | 1.44E-08 | 2.13E-09 | 2.13E-09 | 1.19E-09 | 2.09E-08 |
| 1920 | 257061.82 | 4083859.67 | 1.07E-09 | 1.42E-08 | 2.11E-09 | 2.11E-09 | 1.17E-09 | 2.07E-08 |
| 1921 | 257101.87 | 4083841.17 | 1.06E-09 | 1.41E-08 | 2.09E-09 | 2.09E-09 | 1.16E-09 | 2.05E-08 |
| 1922 | 257141.92 | 4083822.67 | 1.05E-09 | 1.40E-08 | 2.07E-09 | 2.07E-09 | 1.15E-09 | 2.03E-08 |
| 1923 | 257181.96 | 4083804.17 | 1.04E-09 | 1.39E-08 | 2.05E-09 | 2.05E-09 | 1.14E-09 | 2.01E-08 |
| 1924 | 257222.01 | 4083785.67 | 1.03E-09 | 1.37E-08 | 2.03E-09 | 2.03E-09 | 1.13E-09 | 2.00E-08 |
| 1925 | 257262.05 | 4083767.17 | 1.02E-09 | 1.36E-08 | 2.02E-09 | 2.02E-09 | 1.12E-09 | 1.98E-08 |
| 1926 | 257302.1 | 4083748.67 | 1.01E-09 | 1.35E-08 | 2.00E-09 | 2.00E-09 | 1.12E-09 | 1.97E-08 |
| 1927 | 257342.15 | 4083730.17 | 1.01E-09 | 1.34E-08 | 1.99E-09 | 1.99E-09 | 1.11E-09 | 1.95E-08 |
| 1928 | 257382.19 | 4083711.67 | 9.99E-10 | 1.33E-08 | 1.97E-09 | 1.97E-09 | 1.10E-09 | 1.94E-08 |
| 1929 | 257422.24 | 4083693.17 | 9.94E-10 | 1.33E-08 | 1.97E-09 | 1.97E-09 | 1.10E-09 | 1.93E-08 |
| 1930 | 257462.28 | 4083674.67 | 9.91E-10 | 1.32E-08 | 1.96E-09 | 1.96E-09 | 1.09E-09 | 1.92E-08 |
| 1931 | 256257.45 | 4085025.49 | 3.05E-09 | 4.08E-08 | 6.04E-09 | 6.04E-09 | 3.37E-09 | 5.93E-08 |
| 1932 | 256259.1 | 4085070.05 | 3.20E-09 | 4.28E-08 | 6.33E-09 | 6.33E-09 | 3.53E-09 | 6.21E-08 |
| 1933 | 256260.75 | 4085114.61 | 3.29E-09 | 4.40E-08 | 6.50E-09 | 6.50E-09 | 3.63E-09 | 6.39E-08 |
| 1934 | 256261.57 | 4085136.89 | 3.32E-09 | 4.44E-08 | 6.56E-09 | 6.56E-09 | 3.66E-09 | 6.45E-08 |
| 1935 | 256263.23 | 4085161.45 | 3.36E-09 | 4.49E-08 | 6.65E-09 | 6.65E-09 | 3.71E-09 | 6.53E-08 |
| 1936 | 256064.41 | 4084989.96 | 2.52E-09 | 3.37E-08 | 4.98E-09 | 4.98E-09 | 2.76E-09 | 4.89E-08 |
| 1937 | 256079.7 | 4084948.65 | 2.39E-09 | 3.19E-08 | 4.71E-09 | 4.71E-09 | 2.63E-09 | 4.83E-06 |
| 1938 | 256095 | 4084907.34 | 2.24E-09 | 2.99E-08 | 4.42E-09 | 4.42E-09 | 2.46E-09 | 4.34E-06 |
| 2939 | 256110.3 | 4084866.04 | 2.09E-09 | 2.80E-08 | 4.14E-09 | 4.14E-09 | 2.31E-09 | 4.06E-08 |
| 1940 | 256125.59 | 4084824.73 | 1.97E-09 | 2.63E-08 | 3.89E-09 | 3.89E-09 | 2.17E-09 | 3.82E-08 |
| 1941 | 256140.89 | 4084783.42 | 1.86E-09 | 2.49E-08 | 3.68E-09 | 3.68E-09 | 2.05E-09 | 3.61E-08 |
| 1942 | 256156.18 | 4084742.12 | 1.78E-09 | 2.38E-08 | 3.51E-09 | 3.51E-09 | 1.96E-09 | 3.45E-08 |
| 1943 | 256171.48 | 4084700.81 | 1.71E-09 | 2.29E-08 | 3.38E-09 | 3.38E-09 | 1.89E-09 | 3.32E-08 |
| 1944 | 256186.76 | 4084659.5 | 1.66E-09 | 2.21E-08 | 3.27E-09 | 3.27E-09 | 1.82E-09 | 3.21E-08 |
| 1945 | 256202.07 | 4084616.2 | 1.60E-09 | 2.14E-08 | 3.17E-09 | 3.17E-09 | 1.77E-09 | 3.12E-08 |
| 1946 | 256217.37 | 4084576.89 | 1.55E-09 | 2.07E-08 | 3.06E-09 | 3.06E-09 | 1.71E-09 | 3.01E-08 |
| 1947 | 256232.66 | 4084535.58 | 1.49E-09 | 1.99E-08 | 2.94E-09 | 2.94E-09 | 1.64E-09 | 2.89E-08 |
| 1948 | 256247.96 | 4084494.28 | 1.41E-09 | 1.89E-08 | 2.79E-09 | 2.79E-09 | 1.56E-09 | 2.74E-08 |
| 1949 | 256263.26 | 4084452.97 | 1.32E-09 | 1.77E-08 | 2.61E-09 | 2.61E-09 | 1.46E-09 | 2.57E-08 |
| 1950 | 256276.55 | 4084411.66 | 1.23E-09 | 1.65E-08 | 2.44E-09 | 2.44E-09 | 1.38E-09 | 2.39E-08 |
| 1951 | 256293.85 | 4084370.36 | 1.14E-09 | 1.53E-08 | 2.26E-09 | 2.26E-09 | 1.26E-09 | 2.22E-08 |
| 1952 | 256309.15 | 4084329.05 | 1.07E-09 | 1.42E-08 | 2.11E-09 | 2.11E-09 | 1.17E-09 | 2.07E-08 |
| 1953 | 256324.44 | 4084267.74 | 1.01E-09 | 1.34E-08 | 1.99E-09 | 1.99E-09 | 1.11E-09 | 1.95E-06 |
| 1954 | 256339.74 | 4084246.44 | 9.63E-10 | 1.29E-08 | 1.90E-09 | 1.90E-09 | 1.06E-09 | 1.87E-08 |
| 1955 | 256355.03 | 4084205.13 | 9.39E-10 | 1.25E-08 | 1.85E-09 | 1.85E-09 | 1.03E-09 | 1.81E-08 |
| 1956 | 256370.33 | 4084163.83 | 9.29E-10 | 1.24E-08 | 1.84E-09 | 1.84E-09 | 1.02E-09 | 1.80E-08 |
| 1957 | 256385.63 | 4084122.52 | 9.29E-10 | 1.24E-08 | 1.64E-09 | 1.84E-09 | 1.02E-09 | 1.80E-08 |
| 1958 | 256400.92 | 4084081.21 | 9.34E-10 | 1.25E-08 | 1.85E-09 | 1.85E-09 | 1.03E-09 | 1.81E-08 |
| 1959 | 256416.22 | 4084039.91 | 9.37E-10 | 1.25E-08 | 1.85E-09 | 1.85E-09 | 1.03E-09 | 1.82E-08 |
| 1960 | 256431.51 | 4083998.6 | 9.39E-10 | 1.25E-08 | 1.85E-09 | 1.85E-09 | 1.03E-09 | 1.82E-08 |
| 1961 | 256446.81 | 4083957.29 | 9.32E-10 | 1.25E-08 | 1.64E-09 | 1.84E-09 | 1.03E-09 | 1.81E-08 |
| 1962 | 256474.45 | 4083927.4 | 9.31E-10 | 1.24E-08 | 1.84E-09 | 1.84E-09 | 1.03E-09 | 1.81E-08 |
| 1963 | 256514.44 | 4083900.93 | 9.34E-10 | 1.25E-08 | 1.85E-09 | 1.85E-09 | 1.03E-09 | 1.81E-08 |
| 1964 | 256554.43 | 4083890.46 | 9.34E-10 | 1.25E-08 | 1.85E-09 | 1.85E-09 | 1.03E-09 | 1.81E-08 |
| 1965 | 256594.41 | 4083871.98 | 9.32E-10 | 1.24E-08 | 1.84E-09 | 1.84E-09 | 1.03E-09 | 1.81E-08 |
| 1966 | 256634.4 | 4083853.51 | 9.26E-10 | 1.24E-08 | 1.83E-09 | 1.83E-09 | 1.02E-09 | 1.80E-08 |
| 1967 | 256674.39 | 4083835.04 | 9.26E-10 | 1.24E-08 | 1.83E-09 | 1.83E-09 | 1.02E-09 | 1.80E-08 |
| 1968 | 256714.37 | 4083816.56 | 9.25E-10 | 1.24E-08 | 1.83E-09 | 1.83E-09 | 1.02E-09 | 1.79E-08 |
| 1969 | 256754.36 | 4083798.09 | 9.23E-10 | 1.23E-08 | 1.82E-09 | 1.82E-09 | 1.02E-09 | 1.79E-08 |
| 1970 | 256794.35 | 4083779.82 | 9.20E-10 | 1.23E-08 | 1.82E-09 | 1.82E-09 | 1.01E-09 | 1.79E-08 |
| 1971 | 256834.33 | 4083761.14 | 9.17E-10 | 1.22E-08 | 1.81E-09 | 1.81E-09 | 1.01E-09 | 1.78E-08 |
| 1972 | 256874.32 | 4083742.67 | 9.15E-10 | 1.22E-08 | 1.81E-09 | 1.81E-09 | 1.01E-09 | 1.78E-08 |
| 1973 | 256914.31 | 4083724.2 | 9.12E-10 | 1.22E-08 | 1.80E-09 | 1.80E-09 | 1.01E-09 | 1.77E-08 |
| 1974 | 256954.29 | 4083705.72 | 9.09E-10 | 1.21E-08 | 1.80E-09 | 1.80E-09 | 1.00E-09 | 1.76E-08 |
| 1975 | 256994.28 | 4083687.25 | 9.06E-10 | 1.21E-08 | 1.79E-09 | 1.79E-09 | 9.98E-10 | 1.76E-08 |
| 1976 | 257034.27 | 4083668.78 | 9.01E-10 | 1.20E-08 | 1.78E-09 | 1.78E-09 | 9.93E-10 | 1.75E-08 |
| 1977 | 257074.25 | 4083650.3 | 8.95E-10 | 1.20E-08 | 1.77E-09 | 1.77E-09 | 9.86E-10 | 1.74E-08 |
| 1978 | 257114.24 | 4083631.83 | 8.87E-10 | 1.19E-08 | 1.73E-09 | 1.73E-09 | 9.78E-10 | 1.72E-08 |
| 1979 | 257154.23 | 4083613.36 | 8.78E-10 | 1.17E-08 | 1.74E-09 | 1.74E-09 | 9.68E-10 | 1.70E-08 |
| 1980 | 257194.21 | 4083594.88 | 8.68E-10 | 1.16E-08 | 1.71E-09 | 1.71E-09 | 9.54E-10 | 1.68E-08 |
| 1981 | 257734.2 | 4083576.41 | 6.52E-10 | 1.14E-08 | 1.68E-09 | 1.68E-09 | 9.39E-10 | 1.65E-08 |
| 1982 | 257274.19 | 4083557.94 | 6.38E-10 | 1.12E-08 | 1.66E-09 | 1.66E-09 | 9.23E-10 | 1.63E-08 |
| 1983 | 257314.16 | 4083539.47 | 6.24E-10 | 1.10E-08 | 1.63E-09 | 1.63E-09 | 9.08E-10 | 1.60E-08 |
| 1984 | 257354.16 | 4083520.99 | 6.13E-10 | 1.09E-08 | 1.61E-09 | 1.81E-09 | 8.96E-10 | 1.58E-08 |
| 1985 | 257394.15 | 4083502.52 | 6.05E-10 | 1.08E-08 | 1.59E-09 | 1.59E-09 | 8.87E-10 | 1.36E-08 |
| 1986 | 257434.14 | 4083484.05 | 8.02E-10 | 1.07E-08 | 1.59E-09 | 1.59E-09 | 8.84E-10 | 1.56E-08 |
| 1987 | 256057.58 | 4085032.89 | 2.65E-09 | 3.54E-08 | 5.23E-09 | 5.23E-09 | 2.92E-09 | 5.14E-08 |
| 1988 | 256059.24 | 4085077.45 | 2.75E-09 | 3.68E-08 | 5.44E-09 | 5.44E-09 | 3.03E-09 | 5.35E-08 |
| 1989 | 256060.89 | 4085122.02 | 2.61E-09 | 3.76E-08 | 5.56E-09 | 5.56E-09 | 3.10E-09 | 5.46E-08 |
| 1990 | 256062.54 | 4085166.58 | 2.65E-09 | 3.80E-08 | 5.62E-09 | 5.62E-09 | 3.13E-09 | 5.52E-08 |
| 1991 | 256064.19 | 4085212.14 | 2.87E-09 | 3.83E-08 | 5.67E-09 | 5.67E-09 | 3.16E-09 | 5.57E-08 |
| 1992 | 257564.27 | 4085180.58 | 3.45E-07 | 4.61E-06 | 6.83E-07 | 6.83E-07 | 3.81E-07 | 6.71E-06 |
| 1993 | 257588.55 | 4085179.5 | 4.07E-07 | 5.44E-06 | 8.05E-07 | 8.03E-07 | 4.49E-07 | 7.91E-06 |
| 1994 | 257612.63 | 4085178.42 | 4.44E-07 | 5.93E-08 | 8.76E-07 | 6.76E-07 | 4.89E-07 | 8.62E-06 |
| 1995 | 257637.11 | 4085177.35 | 4.67E-07 | 6.24E-06 | 9.23E-07 | 9.23E-07 | 5.14E-07 | 9.06E-06 |
| 1996 | 257661.39 | 4085176.27 | 4.82E-07 | 6.44E-06 | 9.53E-07 | 9.53E-07 | 5.31E-07 | 9.36E-06 |
| 1997 | 257685.68 | 4085175.2 | 4.93E-07 | 6.58E-06 | 9.74E-07 | 9.74E-07 | 5.43E-07 | 9.57E-06 |
| 1998 | 257709.96 | 4085174.12 | 5.01E-07 | 6.69E-06 | 9.90E-07 | 9.90E-07 | 5.52E-07 | 9.77E-06 |
| 1999 | 257734.24 | 4085173.05 | 5.07E-07 | 6.77E-06 | 1.00E-06 | 1.00E-06 | 5.58E-07 | 9.83E-06 |
| 2000 | 257758.52 | 4085171.97 | 5.11E-07 | 6.82E-06 | 1.01E-06 | 1.01E-06 | 5.63E-07 | 9.92E-06 |
| 2001 | 257782.8 | 4085170.9 | 5.14E-07 | 6.87E-06 | 1.02E-06 | 1.02E-06 | 5.66E-07 | 9.98E-06 |
| 2002 | 257807.08 | 4085169.83 | 5.16E-07 | 6.90E-06 | 1.02E-06 | 1.02E-06 | 5.69E-07 | 1.00E-05 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 6.15E-10 | 8.25E-09 | 1.25E-09 | 1.25E-09 | 6.88E-10 | 1.21E-08 | 3.34E-10 | 4.46E-09 | 5.56E-10 | 5.56E-10 | 2.75E-10 | 6.19E-09 |
| 6.26E-10 | 8.40E-09 | 1.27E-09 | 1.27E-09 | 7.00E-10 | 1.23E-08 | 3.40E-10 | 4.54E-09 | 5.66E-10 | 5.66E-10 | 2.80E-10 | 6.30E-09 |
| 4.37E-10 | 5.86E-09 | 8.89E-10 | 6.89E-10 | 4.89E-10 | 6.57E-09 | 2.37E-10 | 3.17E-09 | 3.95E-10 | 3.95E-10 | 1.96E-10 | 4.40E-09 |
| 4.09E-10 | 5.49E-09 | 8.32E-10 | 8.32E-10 | 4.57E-10 | 8.02E-09 | 2.22E-10 | 2.97E-09 | 3.70E-10 | 3.70E-10 | 1.83E-10 | 4.11E-09 |
| 3.81E-10 | 5.11E-09 | 7.74E-10 | 7.74E-10 | 4.26E-10 | 7.46E-09 | 2.07E-10 | 2.76E-09 | 3.44E-10 | 3.44E-10 | 1.71E-10 | 3.83E-09 |
| 3.55E-10 | 4.76E-09 | 7.21E-10 | 7.21E-10 | 3.96E-10 | 6.95E-09 | 1.93E-10 | 2.57E-09 | 3.21E-10 | 3.21E-10 | 1.59E-10 | 3.57E-09 |
| 3.33E-10 | 4.46E-09 | 6.76E-10 | 6.76E-10 | 3.73E-10 | 6.52E-09 | 1.81E-10 | 2.41E-09 | 3.01E-10 | 3.01E-10 | 1.49E-10 | 3.34E-09 |
| 3.15E-10 | 4.22E-09 | 6.40E-10 | 6.40E-10 | 3.52E-10 | 6.17E-09 | 1.71E-10 | 2.29E-09 | 2.85E-10 | 2.85E-10 | 1.41E-10 | 3.17E-09 |
| 3.01E-10 | 4.04E-09 | 6.12E-10 | 6.12E-10 | 3.37E-10 | 5.90E-09 | 1.64E-10 | 2.18E-09 | 2.72E-10 | 2.77E-10 | 1.35E-10 | 3.03E-09 |
| 2.90E-10 | 3.88E-09 | 5.89E-10 | 5.89E-10 | 3.24E-10 | 5.67E-09 | 1.57E-10 | 2.10E-09 | 2.62E-10 | 2.62E-10 | 1.30E-10 | 2.91E-09 |
| 2.79E-10 | 3.74E-09 | 5.67E-10 | 5.67E-10 | 3.12E-10 | 5.46E-09 | 1.51E-10 | 2.02E-09 | 2.52E-10 | 2.52E-10 | 1.25E-10 | 2.80E-09 |
| 2.67E-10 | 3.58E-09 | 5.43E-10 | 5.43E-10 | 2.98E-10 | 5.23E-09 | 1.45E-10 | 1.94E-09 | 2.42E-10 | 2.42E-10 | 1.20E-10 | 2.68E-09 |
| 2.54E-10 | 3.40E-09 | 5.16E-10 | 5.16E-10 | 2.83E-10 | 4.97E-09 | 1.38E-10 | 1.84E-09 | 2.29E-10 | 2.29E-10 | 1.14E-10 | 2.55E-09 |
| 2.38E-10 | 3.19E-09 | 4.84E-10 | 4.64E-10 | 2.66E-10 | 4.87E-09 | 1.29E-10 | 1.73E-09 | 2.15E-10 | 2.15E-10 | 1.07E-10 | 2.39E-09 |
| 2.21E-10 | 2.97E-09 | 4.50E-10 | 4.50E-10 | 2.47E-10 | 4.33E-09 | 1.20E-10 | 1.60E-09 | 2.00E-10 | 2.00E-10 | 9.90E-11 | 2.22E-09 |
| 2.05E-10 | 2.75E-09 | 4.17E-10 | 4.17E-10 | 2.29E-10 | 4.02E-09 | 1.11E-10 | 1.49E-09 | 1.86E-10 | 1.86E-10 | 9.19E-11 | 2.06E-09 |
| 1.92E-10 | 2.57E-09 | 3.89E-10 | 3.89E-10 | 2.14E-10 | 3.75E-09 | 1.04E-10 | 1.39E-09 | 1.73E-10 | 1.73E-10 | 8.58E-11 | 1.93E-09 |
| 1.81E-10 | 2.43E-09 | 3.68E-10 | 3.68E-10 | 2.02E-10 | 3.55E-09 | 9.63E-11 | 1.31E-09 | 1.64E-10 | 1.64E-10 | 8.10E-11 | 1.82E-09 |
| 1.74E-10 | 2.33E-09 | 3.54E-10 | 3.54E-10 | 1.94E-10 | 3.41E-09 | 9.45E-11 | 1.26E-09 | 1.57E-10 | 1.57E-10 | 7.79E-11 | 1.75E-09 |
| 1.70E-10 | 2.26E-09 | 3.45E-10 | 3.45E-10 | 1.90E-10 | 3.33E-09 | 9.22E-11 | 1.23E-09 | 1.54E-10 | 1.54E-10 | 7.60E-11 | 1.71E-09 |
| 1.67E-10 | 2.24E-09 | 3.40E-10 | 3.40E-10 | 1.87E-10 | 3.28E-09 | 9.09E-11 | 1.21E-09 | 1.51E-10 | 1.51E-10 | 7.49E-11 | 1.68E-09 |
| 1.66E-10 | 2.23E-09 | 3.37E-10 | 3.37E-10 | 1.85E-10 | 3.25E-09 | 9.01E-11 | 1.20E-09 | 1.50E-10 | 1.50E-10 | 7.43E-11 | 1.67E-09 |
| 1.85E-10 | 2.21E-09 | 3.35E-10 | 3.33E-10 | 1.84E-10 | 3.23E-09 | 8.95E-11 | 1.20E-09 | 1.49E-10 | 1.49E-10 | 7.38E-11 | 1.66E-09 |
| 1.84E-10 | 2.29E-09 | 3.33E-10 | 3.33E-10 | 1.83E-10 | 3.21E-09 | 8.89E-11 | 1.19E-09 | 1.48E-10 | 1.48E-10 | 7.33E-11 | 1.64E-09 |
| 1.82E-10 | 2.16E-09 | 3.30E-10 | 3.30E-10 | 1.83E-10 | 3.16E-09 | 8.82E-11 | 1.16E-09 | 1.47E-10 | 1.47E-10 | 7.27E-11 | 1.63E-09 |
| 1.64E-10 | 2.20E-09 | 3.33E-10 | 3.33E-10 | 1.83E-10 | 3.21E-09 | 6.90E-11 | 1.19E-09 | 1.48E-10 | 1.48E-10 | 7.34E-11 | 1.65E-09 |
| 1.65E-10 | 2.21E-09 | 3.35E-10 | 3.35E-10 | 1.84E-10 | 3.23E-09 | 6.95E-11 | 1.20E-09 | 1.49E-10 | 1.49E-10 | 7.38E-11 | 1.66E-09 |
| 1.66E-10 | 2.22E-09 | 3.37E-10 | 3.37E-10 | 1.85E-10 | 3.25E-09 | 9.00E-11 | 1.20E-09 | 1.50E-10 | 1.50E-10 | 7.42E-11 | 1.67E-09 |
| 1.87E-10 | 2.23E-09 | 3.39E-10 | 3.39E-10 | 1.86E-10 | 3.27E-09 | 9.05E-11 | 1.21E-09 | 1.51E-10 | 1.51E-10 | 7.46E-11 | 1.68E-09 |
| 1.87E-10 | 2.24E-09 | 3.40E-10 | 3.40E-10 | 1.87E-10 | 3.28E-09 | 9.09E-11 | 1.21E-09 | 1.51E-10 | 1.51E-10 | 7.49E-11 | 1.68E-09 |
| 1.66E-10 | 2.25E-09 | 3.41E-10 | 3.41E-10 | 1.87E-10 | 3.28E-09 | 9.10E-11 | 1.22E-09 | 1.52E-10 | 1.52E-10 | 7.50E-11 | 1.69E-09 |
| 1.87E-10 | 2.24E-09 | 3.40E-10 | 3.40E-10 | 1.87E-10 | 3.26E-09 | 9.09E-11 | 1.21E-09 | 1.51E-10 | 1.51E-10 | 7.49E-11 | 1.68E-09 |
| 1.66E-10 | 2.23E-09 | 3.38E-10 | 3.38E-10 | 1.86E-10 | 3.26E-09 | 9.04E-11 | 1.21E-09 | 1.51E-10 | 1.51E-10 | 7.45E-11 | 1.67E-09 |
| 1.65E-10 | 2.21E-09 | 3.35E-10 | 3.35E-10 | 1.84E-10 | 3.23E-09 | 8.96E-11 | 1.20E-09 | 1.49E-10 | 1.49E-10 | 7.39E-11 | 1.66E-09 |
| 1.63E-10 | 2.19E-09 | 3.32E-10 | 3.32E-10 | 1.83E-10 | 3.20E-09 | 8.87E-11 | 1.19E-09 | 1.48E-10 | 1.48E-10 | 7.31E-11 | 1.64E-09 |
| 1.62E-10 | 2.17E-09 | 3.29E-10 | 3.29E-10 | 1.81E-10 | 3.17E-09 | 8.78E-11 | 1.17E-09 | 1.46E-10 | 1.46E-10 | 7.24E-11 | 1.63E-09 |
| 1.60E-10 | 2.15E-09 | 3.26E-10 | 3.26E-10 | 1.79E-10 | 3.14E-09 | 8.71E-11 | 1.16E-09 | 1.45E-10 | 1.45E-10 | 7.18E-11 | 1.61E-09 |
| 1.59E-10 | 2.13E-09 | 3.23E-10 | 3.23E-10 | 1.78E-10 | 3.11E-09 | 8.63E-11 | 1.15E-09 | 1.44E-10 | 1.44E-10 | 7.11E-11 | 1.60E-09 |
| 1.57E-10 | 2.11E-09 | 3.20E-10 | 3.20E-10 | 1.76E-10 | 3.09E-09 | 6.55E-11 | 1.14E-09 | 1.42E-10 | 1.42E-10 | 7.05E-11 | 1.56E-09 |
| 1.56E-10 | 2.09E-09 | 3.17E-10 | 3.17E-10 | 1.74E-10 | 3.06E-09 | 6.48E-11 | 1.13E-09 | 1.41E-10 | 1.41E-10 | 6.99E-11 | 1.57E-09 |
| 1.55E-10 | 2.08E-09 | 3.15E-10 | 3.15E-10 | 1.73E-10 | 3.03E-09 | 8.41E-11 | 1.12E-09 | 1.40E-10 | 1.40E-10 | 6.94E-11 | 1.56E-09 |
| 1.54E-10 | 2.06E-09 | 3.15E-10 | 3.13E-10 | 1.72E-10 | 3.01E-09 | 8.35E-11 | 1.12E-09 | 1.39E-10 | 1.39E-10 | 6.88E-11 | 1.55E-09 |
| 1.53E-10 | 2.05E-09 | 3.10E-10 | 3.10E-10 | 1.71E-10 | 2.99E-09 | 6.29E-11 | 1.11E-09 | 1.38E-10 | 1.38E-10 | 6.63E-11 | 1.53E-09 |
| 1.52E-10 | 2.03E-09 | 3.08E-10 | 3.08E-10 | 1.69E-10 | 2.97E-09 | 6.23E-11 | 1.10E-09 | 1.37E-10 | 1.37E-10 | 6.79E-11 | 1.52E-09 |
| 1.51E-10 | 2.02E-09 | 3.07E-10 | 3.07E-10 | 1.69E-10 | 2.96E-09 | 8.20E-11 | 1.09E-09 | 1.37E-10 | 1.37E-10 | 6.76E-11 | 1.52E-09 |
| 1.50E-10 | 2.02E-09 | 3.06E-10 | 3.06E-10 | 1.68E-10 | 2.95E-09 | 8.17E-11 | 1.09E-09 | 1.36E-10 | 1.36E-10 | 6.74E-11 | 1.51E-09 |
| 4.64E-10 | 6.23E-09 | 9.42E-10 | 9.42E-10 | 5.18E-10 | 9.08E-09 | 2.52E-10 | 3.36E-09 | 4.19E-10 | 4.19E-10 | 2.08E-10 | 4.68E-09 |
| 4.88E-10 | 6.51E-09 | 9.88E-10 | 9.88E-10 | 5.43E-10 | 9.52E-09 | 2.64E-10 | 3.52E-09 | 4.40E-10 | 4.40E-10 | 2.18E-10 | 4.89E-09 |
| 5.00E-10 | 6.70E-09 | 1.02E-09 | 1.02E-09 | 5.58E-10 | 9.79E-09 | 2.71E-10 | 3.62E-09 | 4.52E-10 | 4.52E-10 | 2.24E-10 | 5.02E-09 |
| 5.04E-10 | 6.76E-09 | 1.02E-09 | 1.02E-09 | 5.63E-10 | 9.87E-09 | 2.74E-10 | 3.66E-09 | 4.56E-10 | 4.56E-10 | 2.26E-10 | 5.07E-09 |
| 5.11E-10 | 6.85E-09 | 1.04E-09 | 1.04E-09 | 5.71E-10 | 1.00E-08 | 2.77E-10 | 3.70E-09 | 4.62E-10 | 4.62E-10 | 2.29E-10 | 5.13E-09 |
| 3.83E-10 | 5.13E-09 | 7.78E-10 | 7.78E-10 | 4.28E-10 | 7.50E-09 | 2.08E-10 | 2.78E-09 | 3.46E-10 | 3.46E-10 | 1.71E-10 | 3.85E-09 |
| 3.83E-10 | 4.85E-09 | 7.36E-10 | 7.36E-10 | 4.05E-10 | 7.09E-09 | 1.97E-10 | 2.63E-09 | 3.27E-10 | 3.27E-10 | 1.62E-10 | 3.64E-09 |
| 3.39E-10 | 4.55E-09 | 6.90E-10 | 6.90E-10 | 3.79E-10 | 6.65E-09 | 1.84E-10 | 2.46E-09 | 3.07E-10 | 3.07E-10 | 1.52E-10 | 3.41E-09 |
| 3.16E-10 | 4.26E-09 | 6.46E-10 | 6.46E-10 | 3.55E-10 | 6.23E-09 | 1.73E-10 | 2.31E-09 | 2.87E-10 | 2.87E-10 | 1.42E-10 | 3.20E-09 |
| 2.99E-10 | 4.00E-09 | 6.07E-10 | 6.07E-10 | 3.34E-10 | 5.85E-09 | 1.62E-10 | 2.17E-09 | 2.70E-10 | 2.70E-10 | 1.34E-10 | 3.00E-09 |
| 2.83E-10 | 3.79E-09 | 5.74E-10 | 5.74E-10 | 3.16E-10 | 5.54E-09 | 1.53E-10 | 2.05E-09 | 2.56E-10 | 2.56E-10 | 1.27E-10 | 2.84E-09 |
| 2.70E-10 | 3.62E-09 | 5.49E-10 | 5.49E-10 | 3.02E-10 | 5.29E-09 | 1.47E-10 | 1.96E-09 | 2.44E-10 | 2.44E-10 | 1.21E-10 | 2.71E-09 |
| 2.60E-10 | 3.48E-09 | 5.28E-10 | 5.28E-10 | 2.90E-10 | 5.09E-09 | 1.41E-10 | 1.88E-09 | 2.35E-10 | 2.35E-10 | 1.16E-10 | 2.61E-09 |
| 2.51E-10 | 3.37E-09 | 5.11E-10 | 5.11E-10 | 2.61E-10 | 4.92E-09 | 1.36E-10 | 1.82E-09 | 2.27E-10 | 2.27E-10 | 1.13E-10 | 2.53E-09 |
| 2.44E-10 | 3.27E-09 | 4.95E-10 | 4.95E-10 | 2.72E-10 | 4.77E-09 | 1.32E-10 | 1.77E-09 | 2.20E-10 | 2.20E-10 | 1.09E-10 | 2.45E-09 |
| 2.35E-10 | 3.15E-09 | 4.78E-10 | 4.78E-10 | 2.63E-10 | 4.61E-09 | 1.28E-10 | 1.71E-09 | 2.13E-10 | 2.13E-10 | 1.05E-10 | 2.37E-09 |
| 2.26E-10 | 3.03E-09 | 4.59E-10 | 4.59E-10 | 2.52E-10 | 4.43E-09 | 1.23E-10 | 1.64E-09 | 2.04E-10 | 2.04E-10 | 1.01E-10 | 2.

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1787 | 257135.02 | 4084538.55 | 2.65E-09 | 3.55E-08 | 5.23E-09 | 5.23E-09 | 2.91E-09 | 5.14E-08 | 4.01E-10 | 5.38E-09 | 8.16E-10 | 8.16E-10 | 4.49E-10 | 7.87E-09 | 2.18E-10 | 2.91E-09 | 3.63E-10 | 3.63E-10 | 1.80E-10 | 4.04E-09 |
| 1768 | 257174.63 | 4084520.25 | 2.67E-09 | 3.57E-08 | 5.26E-09 | 5.28E-09 | 2.94E-09 | 5.19E-08 | 4.05E-10 | 5.44E-09 | 8.24E-10 | 8.24E-10 | 4.53E-10 | 7.94E-09 | 2.20E-10 | 2.94E-09 | 3.67E-10 | 3.67E-10 | 1.82E-10 | 4.08E-09 |
| 1769 | 257214.24 | 4084501.95 | 2.71E-09 | 3.62E-08 | 5.36E-09 | 5.36E-09 | 2.99E-09 | 5.26E-08 | 4.11E-10 | 5.52E-09 | 8.36E-10 | 8.36E-10 | 4.60E-10 | 8.06E-09 | 2.23E-10 | 2.98E-09 | 3.72E-10 | 3.72E-10 | 1.84E-10 | 4.14E-09 |
| 1770 | 257253.84 | 4084483.66 | 2.76E-09 | 3.68E-08 | 5.45E-09 | 5.45E-09 | 3.04E-09 | 5.35E-08 | 4.18E-10 | 5.61E-09 | 8.50E-10 | 8.50E-10 | 4.67E-10 | 8.19E-09 | 2.27E-10 | 3.05E-09 | 3.78E-10 | 3.78E-10 | 1.87E-10 | 4.20E-09 |
| 1771 | 257293.45 | 4084465.36 | 2.80E-09 | 3.74E-08 | 5.53E-09 | 5.53E-09 | 3.08E-09 | 5.45E-08 | 4.25E-10 | 5.69E-09 | 8.63E-10 | 8.63E-10 | 4.75E-10 | 8.32E-09 | 2.51E-10 | 5.08E-09 | 3.84E-10 | 3.84E-10 | 1.90E-10 | 4.27E-09 |
| 1772 | 257333.05 | 4084447.06 | 2.83E-09 | 3.78E-08 | 5.59E-09 | 5.59E-09 | 3.12E-09 | 5.49E-08 | 4.29E-10 | 5.75E-09 | 8.73E-10 | 8.73E-10 | 4.80E-10 | 8.41E-09 | 2.35E-10 | 3.11E-09 | 3.88E-10 | 3.86E-10 | 1.92E-10 | 4.32E-09 |
| 1773 | 257372.66 | 4084428.77 | 2.85E-09 | 3.80E-08 | 5.62E-09 | 5.62E-09 | 3.13E-09 | 5.52E-08 | 4.32E-10 | 5.79E-09 | 8.78E-10 | 8.78E-10 | 4.83E-10 | 8.46E-09 | 2.35E-10 | 3.13E-09 | 3.91E-10 | 3.91E-10 | 1.93E-10 | 4.34E-09 |
| 1774 | 257412.27 | 4084410.47 | 2.85E-09 | 3.81E-08 | 5.64E-09 | 5.64E-09 | 3.14E-09 | 5.54E-08 | 4.33E-10 | 5.81E-09 | 8.80E-10 | 8.80E-10 | 4.84E-10 | 8.48E-09 | 2.35E-10 | 3.14E-09 | 3.92E-10 | 3.92E-10 | 1.94E-10 | 4.35E-09 |
| 1775 | 257451.87 | 4084392.17 | 2.86E-09 | 3.82E-08 | 5.63E-09 | 5.65E-09 | 3.15E-09 | 5.55E-08 | 4.34E-10 | 5.82E-09 | 8.83E-10 | 8.83E-10 | 4.85E-10 | 8.51E-09 | 2.36E-10 | 3.15E-09 | 3.93E-10 | 3.93E-10 | 1.94E-10 | 4.37E-09 |
| 1726 | 257491.48 | 4084373.87 | 2.87E-09 | 3.84E-08 | 5.67E-09 | 5.67E-09 | 3.16E-09 | 5.57E-08 | 4.36E-10 | 5.84E-09 | 8.85E-10 | 8.86E-10 | 4.87E-10 | 8.54E-09 | 2.37E-10 | 3.16E-09 | 3.94E-10 | 3.94E-10 | 1.95E-10 | 4.38E-09 |
| 1777 | 256956.97 | 4084999.57 | 6.69E-09 | 8.95E-08 | 1.32E-08 | 1.32E-08 | 7.37E-09 | 1.30E-07 | 1.01E-09 | 1.36E-08 | 2.06E-09 | 2.06E-09 | 1.13E-09 | 1.99E-08 | 5.51E-10 | 7.36E-09 | 9.18E-10 | 9.18E-10 | 4.54E-10 | 1.02E-08 |
| 1778 | 256958.62 | 4085044.13 | 7.45E-09 | 9.94E-08 | 1.47E-08 | 1.47E-08 | 8.20E-09 | 1.45E-07 | 1.13E-09 | 1.52E-08 | 2.30E-09 | 2.30E-09 | 1.26E-09 | 2.21E-08 | 6.14E-10 | 8.20E-09 | 1.02E-09 | 1.02E-09 | 5.06E-10 | 1.14E-08 |
| 1779 | 258960.27 | 4085088.69 | 8.06E-09 | 1.08E-07 | 1.59E-08 | 1.59E-08 | 8.89E-09 | 1.57E-07 | 1.22E-09 | 1.64E-08 | 2.49E-09 | 2.49E-09 | 1.37E-09 | 2.40E-08 | 6.65E-10 | 8.88E-09 | 1.11E-09 | 1.11E-09 | 5.48E-10 | 1.23E-08 |
| 1780 | 256961.92 | 4085133.25 | 8.55E-09 | 1.14E-07 | 1.69E-08 | 1.69E-08 | 9.42E-09 | 1.66E-07 | 1.30E-09 | 1.74E-08 | 2.64E-09 | 2.64E-09 | 1.45E-09 | 2.54E-08 | 7.05E-10 | 9.42E-09 | 1.17E-09 | 1.17E-09 | 5.81E-10 | 1.30E-08 |
| 1781 | 256963.57 | 4085177.82 | 9.00E-09 | 1.20E-07 | 1.78E-08 | 1.78E-08 | 9.92E-09 | 1.75E-07 | 1.37E-09 | 1.83E-08 | 2.78E-09 | 2.78E-09 | 1.53E-09 | 2.68E-08 | 7.42E-10 | 9.91E-09 | 1.24E-09 | 1.24E-09 | 6.12E-10 | 1.37E-08 |
| 1782 | 256863.94 | 4084960.11 | 5.15E-09 | 6.68E-08 | 1.02E-08 | 1.02E-08 | 5.67E-09 | 9.99E-08 | 7.81E-10 | 1.05E-08 | 1.59E-09 | 1.59E-09 | 8.73E-10 | 1.53E-08 | 4.24E-10 | 5.67E-09 | 7.07E-10 | 7.07E-10 | 3.50E-10 | 7.86E-09 |
| 1783 | 258879.41 | 4084918.34 | 4.66E-09 | 6.23E-08 | 9.21E-09 | 9.21E-09 | 5.13E-09 | 9.05E-08 | 7.07E-10 | 9.48E-09 | 1.44E-09 | 1.44E-09 | 7.91E-10 | 1.39E-08 | 3.84E-10 | 5.13E-09 | 6.40E-10 | 6.40E-10 | 3.17E-10 | 7.11E-09 |
| 1784 | 256894.88 | 4084876.57 | 4.23E-09 | 5.65E-08 | 8.36E-09 | 8.36E-09 | 4.66E-09 | 8.21E-08 | 6.42E-10 | 8.81E-09 | 1.31E-09 | 1.31E-09 | 7.18E-10 | 1.26E-08 | 3.49E-10 | 4.66E-09 | 5.81E-10 | 5.81E-10 | 2.87E-10 | 6.45E-09 |
| 1785 | 258910.34 | 4084834.81 | 3.88E-09 | 5.18E-08 | 7.66E-09 | 7.66E-09 | 4.27E-09 | 7.53E-08 | 5.88E-10 | 7.89E-09 | 1.20E-09 | 1.20E-09 | 6.58E-10 | 1.15E-08 | 3.20E-10 | 4.27E-09 | 5.32E-10 | 5.32E-10 | 2.63E-10 | 5.92E-09 |
| 1786 | 256925.61 | 4084793.04 | 3.58E-09 | 4.78E-08 | 7.07E-09 | 7.07E-09 | 3.94E-09 | 6.95E-08 | 5.43E-10 | 7.28E-09 | 1.10E-09 | 1.10E-09 | 6.07E-10 | 1.06E-08 | 2.95E-10 | 3.94E-09 | 4.91E-10 | 4.91E-10 | 2.43E-10 | 5.46E-09 |
| 1787 | 256941.27 | 4084751.28 | 3.31E-09 | 4.42E-08 | 6.54E-09 | 6.54E-09 | 3.64E-09 | 6.42E-08 | 5.02E-10 | 6.73E-09 | 1.02E-09 | 1.02E-09 | 5.61E-10 | 9.84E-09 | 2.73E-10 | 3.64E-09 | 4.54E-10 | 4.54E-10 | 2.25E-10 | 5.05E-09 |
| 1788 | 256956.74 | 4084709.51 | 3.06E-09 | 4.09E-08 | 6.05E-09 | 6.05E-09 | 3.37E-09 | 5.94E-08 | 4.64E-10 | 6.22E-09 | 9.44E-10 | 9.44E-10 | 5.19E-10 | 9.10E-09 | 2.52E-10 | 3.37E-09 | 4.20E-10 | 4.20E-10 | 2.06E-10 | 4.87E-09 |
| 1789 | 256972.21 | 4084667.75 | 2.84E-09 | 3.79E-08 | 5.61E-09 | 5.61E-09 | 3.15E-09 | 5.51E-08 | 4.31E-10 | 5.78E-09 | 6.76E-10 | 8.76E-10 | 4.82E-10 | 8.44E-09 | 2.34E-10 | 3.15E-09 | 3.90E-10 | 3.90E-10 | 1.95E-10 | 4.33E-09 |
| 1790 | 256967.67 | 4084625.98 | 2.66E-09 | 3.55E-08 | 5.25E-09 | 5.25E-09 | 2.95E-09 | 5.16E-08 | 4.03E-10 | 5.41E-09 | 8.20E-10 | 8.20E-10 | 4.51E-10 | 7.90E-09 | 2.19E-10 | 2.92E-09 | 3.65E-10 | 3.65E-10 | 1.80E-10 | 4.05E-09 |
| 1791 | 257003.14 | 4084584.22 | 2.50E-09 | 3.34E-08 | 4.94E-09 | 4.94E-09 | 2.75E-09 | 4.85E-08 | 3.79E-10 | 5.09E-09 | 7.71E-10 | 7.71E-10 | 4.24E-10 | 7.43E-09 | 2.06E-10 | 2.75E-09 | 3.41E-10 | 3.43E-10 | 1.70E-10 | 3.81E-09 |
| 1792 | 257016.6 | 4084542.45 | 2.36E-09 | 3.15E-08 | 4.66E-09 | 4.66E-09 | 2.60E-09 | 4.58E-08 | 3.58E-10 | 4.80E-09 | 7.27E-10 | 7.27E-10 | 4.00E-10 | 7.01E-09 | 1.94E-10 | 2.60E-09 | 3.24E-10 | 3.24E-10 | 1.60E-10 | 3.60E-09 |
| 1793 | 257034.07 | 4084500.69 | 2.22E-09 | 2.97E-08 | 4.40E-09 | 4.40E-09 | 2.45E-09 | 4.32E-08 | 3.38E-10 | 4.53E-09 | 6.86E-10 | 6.86E-10 | 3.72E-10 | 6.61E-09 | 1.83E-10 | 2.45E-09 | 3.05E-10 | 3.05E-10 | 1.51E-10 | 3.39E-09 |
| 1794 | 257062.02 | 4084470.46 | 2.17E-09 | 2.90E-08 | 4.29E-09 | 4.29E-09 | 2.39E-09 | 4.21E-08 | 3.29E-10 | 4.41E-09 | 6.69E-10 | 6.69E-10 | 3.68E-10 | 6.45E-09 | 1.79E-10 | 2.39E-09 | 2.98E-10 | 2.96E-10 | 1.47E-10 | 3.31E-09 |
| 1795 | 257102.45 | 4084451.78 | 2.19E-09 | 2.93E-08 | 4.33E-09 | 4.33E-09 | 2.41E-09 | 4.25E-08 | 3.33E-10 | 4.46E-09 | 6.76E-10 | 6.76E-10 | 3.72E-10 | 6.52E-09 | 1.81E-10 | 2.41E-09 | 3.01E-10 | 3.01E-10 | 1.49E-10 | 3.34E-09 |
| 1796 | 257142.88 | 4084433.11 | 2.23E-09 | 2.97E-08 | 4.40E-09 | 4.40E-09 | 2.45E-09 | 4.32E-08 | 3.38E-10 | 4.53E-09 | 6.87E-10 | 6.87E-10 | 3.78E-10 | 6.62E-09 | 1.84E-10 | 2.45E-09 | 3.06E-10 | 3.06E-10 | 1.51E-10 | 3.40E-09 |
| 1797 | 257183.31 | 4084414.43 | 2.27E-09 | 3.03E-08 | 4.49E-09 | 4.49E-09 | 2.50E-09 | 4.41E-08 | 3.45E-10 | 4.62E-09 | 7.01E-10 | 7.01E-10 | 3.85E-10 | 6.76E-09 | 1.87E-10 | 2.50E-09 | 3.12E-10 | 3.12E-10 | 1.54E-10 | 3.47E-09 |
| 1798 | 257223.74 | 4084395.75 | 2.31E-09 | 5.09E-08 | 4.57E-09 | 4.57E-09 | 2.55E-09 | 4.49E-08 | 3.51E-10 | 4.70E-09 | 7.13E-10 | 7.13E-10 | 3.92E-10 | 6.87E-09 | 1.90E-10 | 2.54E-09 | 3.17E-10 | 3.17E-10 | 1.57E-10 | 3.53E-09 |
| 1799 | 257264.17 | 4084377.07 | 2.34E-09 | 3.12E-08 | 4.62E-09 | 4.62E-09 | 2.58E-09 | 4.54E-08 | 3.55E-10 | 4.76E-09 | 7.21E-10 | 7.21E-10 | 3.96E-10 | 6.95E-09 | 1.93E-10 | 2.57E-09 | 3.21E-10 | 3.21E-10 | 1.59E-10 | 3.57E-09 |
| 1800 | 257304.61 | 4084358.39 | 2.35E-09 | 3.13E-08 | 4.64E-09 | 4.64E-09 | 2.59E-09 | 4.55E-08 | 3.56E-10 | 4.77E-09 | 7.24E-10 | 7.24E-10 | 3.98E-10 | 6.98E-09 | 1.93E-10 | 2.58E-09 | 3.22E-10 | 3.22E-10 | 1.59E-10 | 3.58E-09 |
| 1801 | 257345.04 | 4084339.71 | 2.34E-09 | 3.12E-08 | 4.62E-09 | 4.62E-09 | 2.58E-09 | 4.54E-08 | 3.55E-10 | 4.78E-09 | 7.22E-10 | 7.22E-10 | 3.97E-10 | 6.95E-09 | 1.93E-10 | 2.58E-09 | 3.21E-10 | 3.21E-10 | 1.59E-10 | 3.57E-09 |
| 1802 | 257385.47 | 4084321.04 | 2.32E-09 | 3.10E-08 | 4.59E-09 | 4.59E-09 | 2.56E-09 | 4.51E-08 | 3.52E-10 | 4.72E-09 | 7.16E-10 | 7.16E-10 | 3.94E-10 | 6.90E-09 | 1.91E-10 | 2.56E-09 | 3.19E-10 | 3.19E-10 | 1.58E-10 | 3.54E-09 |
| 1803 | 257425.9 | 4084302.36 | 2.30E-09 | 3.08E-08 | 4.55E-09 | 4.55E-09 | 2.54E-09 | 4.47E-08 | 3.50E-10 | 4.69E-09 | 7.11E-10 | 7.11E-10 | 3.91E-10 | 6.85E-09 | 1.90E-10 | 2.54E-09 | 3.16E-10 | 3.16E-10 | 1.57E-10 | 3.52E-09 |
| 1804 | 257466.33 | 4084263.68 | 2.30E-09 | 3.07E-08 | 4.55E-09 | 4.55E-09 | 2.55E-09 | 4.46E-08 | 5.49E-10 | 4.68E-09 | 7.10E-10 | 7.10E-10 | 3.90E-10 | 6.84E-09 | 1.90E-10 | 2.53E-09 | 3.16E-10 | 3.16E-10 | 1.56E-10 | 3.51E-09 |
| 1805 | 256857.04 | 4085003.27 | 5.70E-09 | 7.62E-08 | 1.15E-08 | 1.13E-08 | 6.28E-09 | 1.11E-07 | 8.66E-10 | 1.16E-08 | 1.76E-09 | 1.76E-09 | 9.68E-10 | 1.70E-08 | 4.70E-10 | 6.28E-09 | 7.83E-10 | 7.83E-10 | 3.88E-10 | 8.70E-09 |
| 1806 | 256858.69 | 4085047.63 | 6.26E-09 | 8.37E-08 | 1.24E-08 | 1.24E-08 | 6.90E-09 | 1.22E-07 | 9.51E-10 | 1.27E-08 | 1.93E-09 | 1.93E-09 | 1.06E-09 | 1.86E-08 | 5.16E-10 | 8.90E-09 | 8.60E-10 | 8.60E-10 | 4.26E-10 | 9.56E-09 |
| 1807 | 256860.34 | 4085092.39 | 6.70E-09 | 8.95E-08 | 1.32E-08 | 1.32E-08 | 7.38E-09 | 1.30E-07 | 1.02E-09 | 1.36E-08 | 2.07E-09 | 2.07E-09 | 1.14E-09 | 1.99E-08 | 5.52E-10 | 7.37E-09 | 9.19E-10 | 9.19E-10 | 4.55E-10 | 1.02E-08 |
| 1808 | 256861.99 | 4085136.96 | 7.02E-09 | 9.37E-08 | 1.39E-08 | 1.39E-08 | 7.73E-09 | 1.36E-07 | 1.06E-09 | 1.43E-08 | 2.16E-09 | 2.16E-09 | 1.19E-09 | 2.09E-08 | 5.78E-10 | 7.73E-09 | 9.63E-10 | 9.63E-10 | 4.72E-10 | 1.07E-08 |
| 1809 | 256883.64 | 4085181.52 | 7.30E-09 | 9.75E-08 | 1.44E-08 | 1.44E-08 | 8.04E-09 | 1.42E-07 | 1.11E-09 | 1.48E-08 | 2.25E-09 | 2.25E-09 | 1.24E-09 | 2.17E-08 | 8.01E-10 | 8.03E-09 | 1.00E-09 | 1.00E-09 | 4.96E-10 | 1.11E-08 |
| 1810 | 256864.04 | 4084967.61 | 4.06E-09 | 5.42E-08 | 8.03E-09 | 8.03E-09 | 4.47E-09 | 7.88E-08 | 6.16E-10 | 8.26E-09 | 1.25E-09 | 1.25E-09 | 6.89E-10 | 1.21E-08 | 3.35E-10 | 4.47E-09 | 5.58E-10 | 5.58E-10 | 2.76E-10 | 6.20E-09 |
| 1811 | 256679.44 | 4084926.05 | 3.72E-09 | 4.97E-08 | 7.36E-09 | 7.36E-09 | 4.10E-09 | 7.22E-08 | 5.65E-10 | 7.57E-09 | 1.15E-09 | 1.15E-09 | 6.51E-10 | 1.11E-08 | 3.07E-10 | 4.10E-09 | 5.11E-10 | 5.11E-10 | 2.53E-10 | 5.68E-09 |
| 1632 | 256894.83 | 4084884.46 | 3.41E-09 | 4.55E-08 | 6.74E-09 | 6.74E-09 | 3.76E-09 | 6.62E-08 | 5.17E-10 | 6.94E-09 | 1.05E-09 | 1.05E-09 | 5.78E-10 | 1.01E-08 | 2.81E-10 | 5.75E-09 | 4.68E-10 | 4.66E-10 | 2.32E-10 | 5.20E-09 |
| 1813 | 256710.23 | 4084842.69 | 3.15E-09 | 4.21E-08 | 6.23E-09 | 6.23E-09 | 3.47E-09 | 6.12E-08 | 4.78E-10 | 6.41E-09 | 9.72E-10 | 9.72E-10 | 5.34E-10 | 9.37E-09 | 2.60E-10 | 3.47E-09 | 4.32E-10 | 4.32E-10 | 2.14E-10 | 4.81E-09 |
| 1614 | 256723.62 | 4084801.32 | 2.94E-09 | 3.93E-08 | 5.82E-09 | 5.82E-09 | 3.24E-09 | 5.71E-08 | 4.47E-10 | 5.99E-09 | 9.06E-10 | 9.08E-10 | 4.99E-10 | 8.75E-09 | 2.43E-10 | 3.24E-09 | 4.04E-10 | 4.04E-10 | 2.00E-10 | 4.49E-09 |
| 1615 | 256741.02 | 4084759.74 | 2.77E-09 | 3.70E-08 | 5.47E-09 | 5.47E-09 | 3.05E-09 | 5.37E-08 | 4.20E-10 | 5.63E-09 | 8.54E-10 | 8.54E-10 | 4.70E-10 | 8.23E-09 | 2.28E-10 | 3.05E-09 | 3.80E-10 | 3.80E-10 | 1.88E-10 | 4.22E-09 |
| 1616 | 256756.41 | 4084718.17 | 2.60E-09 | 3.47E-08 | 5.14E-09 | 5.14E-09 | 2.87E-09 | 5.05E-08 | 3.95E-10 | 5.29E-09 | 6.02E-10 | 6.02E-10 | 4.41E-10 | 7.73E-09 | 2.14E-10 | 2.86E-09 | 3.57E-10 | 3.57E-10 | 1.77E-10 | 3.97E-09 |
| 1817 | 256771.81 | 4084676.6 | 2.43E-09 | 3.24E-08 | 4.80E-09 | 4.80E-09 | 2.68E-09 | 4.71E-08 | 3.69E-10 | 4.94E-09 | 7.49E-10 | 7.49E-10 | 4.12E-10 | 7.22E-09 | 2.00E-10 | 2.67E-09 | 3.33E-10 | 3.33E-10 | 1.65E-10 | 3.71E-09 |
| 1618 | 256787.2 | 4084635.02 | 2.26E-09 | 3.01E-08 | 4.46E-09 | 4.46E-09 | 2.49E-09 | 4.38E-08 | 3.42E-10 | 4.59E-09 | 6.96E-10 | 6.96E-10 | 3.83E-10 | 6.71E-09 | 1.86E-10 | 2.48E-09 | 3.10E-10 | 3.10E-10 | 1.53E-10 | 3.44E-09 |
| 1819 | 256802.6 | 4084593.45 | 2.10E-09 | 2.80E-08 | 4.14E-09 | 4.14E-09 | 2.31E-09 | 4.07E-08 | 3.18E-10 | 4.27E-09 | 6.47E-10 | 6.47E-10 | 3.56E-10 | 6.24E-09 | 1.73E-10 | 2.31E-09 | 2.88E-10 | 2.88E-10 | 1.43E-10 | 3.20E-09 |
| 1820 | 256817.99 | 4084551.68 | 1.97E-09 | 2.63E-08 | 3.88E-09 | 3.68E-09 | 2.17E-09 | 3.82E-08 | 2.98E-10 | 4.00E-09 | 6.06E-10 | 6.06E-10 | 3.33E-10 | 5.84E-09 | 1.62E-10 | 2.16E-09 | 2.70E-10 | 2.70E-10 | 1.34E-10 | 3.00E-09 |
| 1821 | 256833.39 | 4084510.3 | 1.86E-09 | 2.49E-08 | 3.68E-09 | 3.68E-09 | 2.05E-09 | 3.61E-08 | 2.83E-10 | 3.79E-09 | 5.74E-10 | 5.74E-10 | 3.16E-10 | 5.54E-09 | 1.53E-10 | 2.05E-09 | 2.56E-10 | 2.56E-10 | 1.27E-10 | 2.84E-09 |
| 1822 | 256848.78 | 4084468.73 | 1.78E-09 | 2.38E-08 | 3.52E-09 | 3.52E-09 | 1.96E-09 | 3.45E-08 | 2.70E-10 | 3.82E-09 | 5.49E-10 | 5.49E-10 | 3.02E-10 | 5.29E-09 | 1.47E-10 | 1.96E-09 | 2.44E-10 | 2.44E-10 | 1.21E-10 | 2.72E-09 |
| 1823 | 256864.18 | 4084427.16 | 1.71E-09 | 2.28E-08 | 3.38E-09 | 3.38E-09 | 1.88E-09 | 3.32E-08 | 2.59E-10 | 3.48E-09 | 5.27E-10 | 5.27E-10 | 2.90E-10 | 5.08E-09 | 1.41E-10 | 1.88E-09 | 2.35E-10 | 2.35E-10 | 1.16E-10 | 2.61E-09 |
| 1824 | 256879.57 | 4084385.58 | 1.64E-09 | 2.20E-08 | 3.25E-09 | 3.25E-09 | 1.61E-09 | 3.19E-08 | 2.49E-10 | 3.34E-09 | 5.07E-10 | 5.07E-10 | 2.79E-10 | 4.89E-09 | 1.35E-10 | 1.81E-09 | 2.26E-10 | 2.26E-10 | 1.12E-10 | 2.51E-09 |
| 1825 | 256915.09 | 4084334.72 | 1.59E-09 | 2.13E-08 | 3.15E-09 | 3.15E-09 | 1.75E-09 | 3.09E-08 | 2.42E-10 | 3.24E-09 | 4.91E-10 | 4.91E-10 | 2.70E-10 | 4.73E-09 | 1.31E-10 | 1.75E-09 | 2.19E-10 | 2.19E-10 | 1.08E-10 | 2.43E-09 |
| 1828 | 256955.33 | 4084316.12 | 1.61E-09 | 2.15E-08 | 3.19E-09 | 3.19E-09 | 1.78E-09 | 3.13E-08 | 2.45E-10 | 3.28E-09 | 4.98E-10 | 4.98E-10 | 2.74E-10 | 4.79E-09 | 1.33E-10 | 1.78E-09 | 2.21E-10 | 2.21E-10 | 1.10E-10 | 2.46E-09 |
| 1827 | 256995.58 | 4084297.53 | 1.64E-09 | 2.19E-08 | 3.24E-09 | 3.24E-09 | 1.81E-09 | 3.18E-08 | 2.49E-10 | 3.33E-09 | 5.06E-10 | 5.06E-10 | 2.78E-10 | 4.87E-09 | 1.35E-10 | 1.80E-09 | 2.25E-10 | 2.25E-10 | 1.11E-10 | 2.50E-09 |
| 1828 | 257035.82 | 4084278.94 | 1.67E-09 | 2.23E-08 | 3.30E-09 | 3.30E-09 | 1.84E-09 | 3.24E-08 | 2.55E-10 | 3.40E-09 | 5.15E-10 | 5.15E-10 | 2.83E-10 | 4.96E-09 | 1.38E-10 | 1.84E-09 | 2.29E-10 | 2.29E-10 | 1.13E-10 | 2.55E-09 |
| 1829 | 257076.07 | 4084260.35 | 1.70E-09 | 2.27E-08 | 3.36E-09 | 3.36E-09 | 1.87E-09 | 3.30E-08 | 2.58E-10 | 3.46E-09 | 5.25E-10 | 5.25E-10 | 2.88E-10 | 5.06E-09 | 1.40E-10 | 1.87E-09 | 2.33E-10 | 2.31E-10 | 1.16E-10 | 2.60E-09 |
| 1830 | 257116.31 | 4084241.75 | 1.72E-09 | 2.30E-08 | 3.40E-09 | 3.40E-09 | 1.90E-09 | 3.34E-08 | 2.81E-10 | 3.50E-09 | 5.31E-10 | 5.31E-10 | 2.92E-10 | 5.12E-09 | 1.42E-10 | 1.89E-09 | 2.36E-10 | 2.36E-10 | 1.17E-10 | 2.63E-09 |
| 1831 | 257156.56 | 4084223.16 | 1.73E-09 | 2.31E-08 | 3.41E-09 | 3.41E-09 | 1.90E-09 | 3.35E-08 | 2.62E-10 | 3.51E-09 | 5.35E-10 | 5.33E-10 | 2.93E-10 | 5.13E-09 | 1.42E-10 | 1.90E-09 | 2.37E-10 | 2.37E-10 | 1.17E-10 | 2.64E-09 |
| 1632 | 257196.8 | 4084204.57 | 1.72E-09 | 2.30E-08 | 3.40E-09 | 3.40E-09 | 1.89E-09 | 3.34E-08 | 2.61E-10 | 3.50E-09 | 5.30E-10 | 5.30E-10 | 2.92E-10 | 5.11E-09 | 1.42E-10 | 1.89E-09 | 2.36E-10 | 2.36E-10 | 1.17E-10 | 2.62E-09 |
| 1833 | 257237.05 | 4084165.98 | 1.70E-09 | 2.27E-08 | 3.36E-09 | 3.35E-09 | 1.87E-09 | 3.30E-08 | 2.58E-10 | 3.45E-09 | 5.24E-10 | 5.24E-10 | 2.88E-10 | 5.05E-09 | 1.40E-10 | 1.87E-09 | 2.33E-10 | 2.33E-10 | 1.15E-10 | 2.59E-09 |
| 1834 | 257277.29 | 4084167.38 | 1.67E-09 | 2.23E-08 | 3.30E-09 | 3.30E-09 | 1.84E-09 | 3.24E-08 | 2.53E-10 | 3.40E-09 | 5.15E-10 | 5.15E-10 | 2.83E-10 | 4.96E-09 | 1.38E-10 | 1.84E-09 | 2.29E-10 | 2.29E-10 | 1.13E-10 | 2.55E-09 |
| 1835 | 257317.54 | 4084148.79 | 1.64E-09 | 2.19E-08 | 3.24E-09 | 3.24E-09 | 1.81E-09 | 3.19E-08 | 2.49E-10 | 3.34E-09 | 5.07E-10 | 5.07E-10 | 2.79E-10 | 4.88E-09 | 1.35E-10 | 1.81E-09 | 2.25E-10 | 2.25E-10 | 1.12E-10 | 2.51E-09 |
| 1836 | 257357.78 | 4084130.2 | 1.62E-09 | 2.17E-08 | 3.20E-09 | 3.20E-09 | 1.79E-09 | 3.15E-08 | 2.46E-10 | 3.30E-09 | 5.00E-10 | 5.00E-10 | 2.75E-10 | 4.82E-09 | 1.34E-10 | 1.79E-09 | 2.23E-10 | 2.23E-10 | 1.10E-10 | 2.47E-09 |
| 1837 | 257398.03 | 4084111.61 | 1.61E-09 | 2.16E-08 | 3.19E-09 | 3.19E-09 | 1.78E-09 | 3.13E-08 | 2.45E-10 | 3.28E-09 | 4.98E-10 | 4.98E-10 | 2.74E-10 | 4.80E-09 | 1.33E-10 | 1.78E-09 | 2.22E-10 | 2.22E-10 | 1.10E-10 | 2.46E-09 |
| 1838 | 257458.27 | 4084093.01 | 1.62E-09 | 2.18E-08 | 3.20E-09 | 3.20E-09 | 1.78E-09 | 3.14E-08 | 2.46E-10 | 3.29E-09 | 4.99E-10 | 4.99E-10 | 2.75E-10 | 4.81E-09 | 1.33E-10 | 1.78E-09 | 2.22E-10 | 2.22E-10 | 1.10E-10 | 2.47E-09 |
| 1839 | 257478.52 | 4084074.42 | 1.64E-09 | 2.18E-08 | 3.23E-09 | 3.23E-09 | 1.80E-09 | 3.17E-08 | 2.48E-10 | 3.33E-09 | 5.05E-10 | 5.05E-10 | 2.77E-10 | 4.88E-09 | 1.35E-10 | 1.80E-09 | 2.25E-10 | 2.25E-10 | 1.11E-10 | 2.50E-09 |
| 1840 | 256657.17 | 4085010.67 | 4.42E-09 | 5.90E-08 | 8.73E-09 | 8.73E-09 | 4.87E-09 | 8.57E-08 | 8.70E-10 | 8.99E-09 | 1.36E-09 | 1.36E-09 | 7.49E-10 | 1.31E-08 | 3.64E-10 | 4.86E-09 | 6.06E-10 | 6.06E-10 | 3.00E-10 | 8.74E-09 |
| 1641 | 256658.82 | 4085055.24 | 4.75E-09 | 6.34E-08 | 9.38E-09 | 9.38E-09 | 5.23E-09 | 9.22E-08 | 7.21E-10 | 9.66E-09 | 1.47E-09 | 1.47E-09 | 8.06E-10 | 1.41E-08 | 3.91E-10 | 5.23E-09 | 6.52E-10 | 6.52E-10 | 3.23E-10 | 7.25E-09 |
| 1842 | 256660.47 | 4085099.6 | 4.96E-09 | 6.66E-08 | 9.85E-09 | 9.65E-09 | 5.49E-09 | 9.67E-08 | 7.56E-10 | 1.01E-08 | 1.54E-09 | 1.54E-09 | 8.45E-10 | 1.48E-08 | 4.11E-10 | 5.49E-09 | 6.84E-10 | 6.84E-10 | 3.39E-10 | 7.61E-09 |
| 1843 | 256662.13 | 4085144.36 | 5.14E-09 | 6.87E-08 | 1.02E-08 | 1.02E-08 | 5.67E-09 | 9.98E-08 | 7.81E-10 | 1.05E-08 | 1.59E-09 | 1.59E-09 | 8.73E-10 | 1.53E-08 | 4.24E-10 | 5.66E-09 | 7.06E-10 | 7.06E-10 | 3.50E-10 | 7.85E-09 |
| 1844 | 256662.95 | 4085166.64 | 5.21E-09 | 6.96E-08 | 1.03E-08 | 1.03E-08 | 5.74E-09 | 1.01E-07 | 7.91E-10 | 1.06E-08 | 1.61E-09 | 1.61E-09 | 8.84E-10 | 1.55E-08 | 4.29E-10 | 5.74E-09 | 7.15E-10 | 7.15E-10 | 3.54E-10 | 7.95E-09 |
| 1845 | 256464.16 | 4084975.07 | 3.37E-09 | 4.50E-08 | 6.65E-09 | 6.65E-09 | 3.71E-09 | 6.54E-08 | 5.11E-10 | 8.85E-09 | 1.04E-09 | 1.04E-09 | 5.71E-10 | 1.00E-08 | 2.78E-10 | 3.71E-09 | 4.62E-10 | 4.82E-10 | 2.29E-10 | 5.14E-09 |
| 1846 | 256479.51 | 4084933.52 | 3.12E-09 | 4.17E-08 | 6.16E-09 | 6.16E-09 | 3.44E-09 | 6.06E-08 | 4.73E-10 | 8.35E-09 | 9.63E-10 | 9.63E-10 | 5.29E-10 | 9.28E-09 | 2.57E-10 | 3.43E-09 | 4.26E-10 | 4.28E-10 | 2.12E-10 | 4.76E-09 |
| 1847 | 256494.86 | 4084892.17 | 2.88E-09 | 3.85E-08 | 5.69E-09 | 5.69E-09 | 3.17E-09 | 5.59E-08 | 4.37E-10 | 5.86E-09 | 8.89E-10 | 8.89E-10 | 4.89E-10 | 8.57E-09 | 2.37E-10 | 3.17E-09 | 3.95E-10 | 3.95E-10 | 1.96E-10 | 4.40E-09 |
| 1848 | 256510.21 | 4084650.72 | 2.67E-09 | 3.57E-08 | 5.28E-09 | 5.28E-09 | 2.94E-09 | 5.18E-08 | 4.05E-10 | 5.43E-09 | 8.24E-10 | 8.24E-10 | 4.53E-10 | 7.94E-09 | 2.20E-10 | 2.94E-09 | 3.67E-10 | 3.67E-10 | 1.81E-10 | 4.07E-09 |
| 1849 | 256525.56 | 4084809.27 | 2.50E-09 | 3.34E-08 | 4.94E-09 | 4.94E-09 | 2.76E-09 | 4.85E-08 | 3.80E-10 | 5.09E-09 | 7.72E-10 | 7.72E-10 | 4.24E-10 | 7.44E-09 | 2.06E-10 | 2.75E-09 | 3.43E-10 | 3.43E-10 | 1.70E-10 | 3.82E-09 |
| 1850 | 256540.91 | 4084767.82 | 2.37E-09 | 3.18E-08 | 4.68E-09 | 4.68E-09 | 2.61E-09 | 4.60E-08 | 3.59E-10 | 4.62E-09 | 7.31E-10 | 7.31E-10 | 4.02E-10 | 7.04E-09 | 1.95E-10 | 2.61E-09 | 3.25E-10 | 3.25E-10 | 1.61E-10 | 3.81E-09 |
| 1851 | 256556.26 | 4084726.38 | 2.28E-09 | 3.01E-08 | 4.46E-09 | 4.48E-09 | 2.49E-09 | 4.36E-08 | 3.42E-10 | 4.59E-09 | 6.96E-10 | 6.96E-10 | 3.83E-10 | 8.71E-09 | 1.86E-10 | 2.48E-09 | 3.10E-10 | 3.10E-10 | 1.53E-10 | 3.44E-09 |
| 1852 | 256571.61 | 4084684.91 | 2.15E-09 | 2.87E-08 | 4.25E-09 | 4.25E-09 | 2.37E-09 | 4.16E-08 | 3.27E-10 | 4.38E-09 | 6.64E-10 | 6.64E-10 | 3.65E-10 | 8.40E-09 | 1.77E-10 | 2.37E-09 | 2.95E-10 | 2.95E-10 | 1.46E-10 | 3.28E-09 |
| 1853 | 256586.96 | 4084643.46 | 2.04E-09 | 2.72E-08 | 4.02E-09 | 

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1531 | 258726.29 | 4083582.34 | 2.94E-09 | 3.93E-08 | 5.81E-09 | 5.81E-09 | 3.24E-09 | 5.71E-08 | 4.46E-10 | 5.99E-09 | 9.03E-10 | 9.03E-10 | 4.99E-10 | 6.75E-09 | 2.42E-10 | 3.24E-09 | 4.04E-10 | 4.04E-10 | 2.00E-10 | 4.49E-09 |
| 1532 | 258748.88 | 4083590.61 | 3.08E-09 | 4.11E-08 | 6.08E-09 | 6.08E-09 | 3.39E-09 | 5.97E-08 | 4.67E-10 | 6.26E-09 | 9.49E-10 | 9.49E-10 | 5.32E-10 | 9.15E-09 | 2.54E-10 | 3.39E-09 | 4.22E-10 | 4.22E-10 | 2.09E-10 | 4.69E-09 |
| 1533 | 258721.48 | 4083598.97 | 3.22E-09 | 4.79E-08 | 6.35E-09 | 6.35E-09 | 3.54E-09 | 6.24E-08 | 4.88E-10 | 6.54E-09 | 9.92E-10 | 9.92E-10 | 5.45E-10 | 9.56E-09 | 2.65E-10 | 3.54E-09 | 4.41E-10 | 4.41E-10 | 2.18E-10 | 4.91E-09 |
| 1534 | 258794.07 | 4083607.33 | 3.36E-09 | 4.49E-08 | 6.64E-09 | 6.64E-09 | 3.70E-09 | 6.52E-08 | 5.10E-10 | 6.84E-09 | 1.04E-09 | 1.04E-09 | 5.70E-10 | 9.99E-09 | 2.72E-10 | 3.70E-09 | 4.61E-10 | 4.61E-10 | 2.26E-10 | 5.13E-09 |
| 1535 | 258816.66 | 4083615.7 | 3.51E-09 | 4.69E-08 | 6.94E-09 | 6.94E-09 | 3.67E-09 | 6.82E-08 | 5.33E-10 | 7.14E-09 | 1.08E-09 | 1.08E-09 | 5.96E-10 | 1.04E-08 | 2.89E-10 | 3.87E-09 | 4.82E-10 | 4.62E-10 | 2.39E-10 | 5.36E-09 |
| 1536 | 258839.25 | 4083624.06 | 3.67E-09 | 4.90E-08 | 7.24E-09 | 7.24E-09 | 4.04E-09 | 7.12E-08 | 5.56E-10 | 7.46E-09 | 1.13E-09 | 1.13E-09 | 6.22E-10 | 1.09E-08 | 3.02E-10 | 4.04E-09 | 5.03E-10 | 5.03E-10 | 2.49E-10 | 5.59E-09 |
| 1537 | 258861.84 | 4083632.43 | 3.82E-09 | 5.11E-08 | 7.56E-09 | 7.56E-09 | 4.21E-09 | 7.42E-08 | 5.80E-10 | 7.78E-09 | 1.18E-09 | 1.18E-09 | 6.49E-10 | 1.14E-08 | 3.15E-10 | 4.21E-09 | 5.25E-10 | 5.25E-10 | 2.60E-10 | 5.84E-09 |
| 1538 | 258884.43 | 4083640.79 | 3.99E-09 | 5.35E-08 | 7.88E-09 | 7.88E-09 | 4.39E-09 | 7.74E-08 | 6.05E-10 | 8.11E-09 | 1.23E-09 | 1.23E-09 | 6.76E-10 | 1.19E-08 | 3.29E-10 | 4.39E-09 | 5.47E-10 | 5.47E-10 | 2.71E-10 | 6.08E-09 |
| 1539 | 258907.02 | 4083649.15 | 4.15E-09 | 5.55E-08 | 8.21E-09 | 8.21E-09 | 4.57E-09 | 8.06E-08 | 6.30E-10 | 8.45E-09 | 1.28E-09 | 1.28E-09 | 7.04E-10 | 1.23E-08 | 3.42E-10 | 4.57E-09 | 5.70E-10 | 5.70E-10 | 2.82E-10 | 6.34E-09 |
| 1540 | 258929.61 | 4083657.52 | 4.32E-09 | 5.77E-08 | 8.54E-09 | 8.54E-09 | 4.76E-09 | 8.39E-08 | 6.56E-10 | 8.80E-09 | 1.33E-09 | 1.33E-09 | 7.33E-10 | 1.29E-08 | 3.56E-10 | 4.76E-09 | 5.93E-10 | 5.93E-10 | 2.94E-10 | 6.60E-09 |
| 1541 | 258952.3 | 4083665.88 | 4.49E-09 | 6.00E-08 | 8.88E-09 | 8.88E-09 | 4.95E-09 | 8.72E-08 | 6.82E-10 | 9.15E-09 | 1.39E-09 | 1.39E-09 | 7.62E-10 | 1.34E-08 | 3.70E-10 | 4.95E-09 | 6.17E-10 | 6.17E-10 | 3.05E-10 | 6.86E-09 |
| 1542 | 258974.79 | 4083674.25 | 4.67E-09 | 6.24E-08 | 9.23E-09 | 9.23E-09 | 5.14E-09 | 9.06E-08 | 7.09E-10 | 9.50E-09 | 1.44E-09 | 1.44E-09 | 7.92E-10 | 1.39E-08 | 3.85E-10 | 5.14E-09 | 6.41E-10 | 6.41E-10 | 3.17E-10 | 7.13E-09 |
| 1543 | 258997.38 | 4083682.61 | 4.85E-09 | 6.47E-08 | 9.58E-09 | 9.58E-09 | 5.34E-09 | 9.41E-08 | 7.36E-10 | 9.86E-09 | 1.50E-09 | 1.50E-09 | 6.22E-10 | 1.44E-08 | 3.99E-10 | 5.34E-09 | 6.65E-10 | 6.65E-10 | 3.29E-10 | 7.40E-09 |
| 1544 | 259019.98 | 4083690.97 | 5.02E-09 | 6.71E-08 | 9.93E-09 | 9.93E-09 | 5.54E-09 | 9.75E-08 | 7.63E-10 | 1.02E-08 | 1.55E-09 | 1.55E-09 | 6.52E-10 | 1.49E-08 | 4.14E-10 | 5.53E-09 | 6.90E-10 | 6.90E-10 | 3.41E-10 | 7.67E-09 |
| 1545 | 259042.57 | 4083699.34 | 5.20E-09 | 6.95E-08 | 1.03E-08 | 1.03E-08 | 5.73E-09 | 1.01E-07 | 7.90E-10 | 1.06E-08 | 1.61E-09 | 1.61E-09 | 8.83E-10 | 1.55E-08 | 4.29E-10 | 5.73E-09 | 7.14E-10 | 7.14E-10 | 3.54E-10 | 7.94E-09 |
| 1546 | 259065.16 | 4083707.7 | 5.38E-09 | 7.18E-08 | 1.05E-08 | 1.06E-08 | 5.93E-09 | 1.04E-07 | 8.16E-10 | 1.09E-08 | 1.66E-09 | 1.66E-09 | 9.12E-10 | 1.60E-08 | 4.43E-10 | 5.92E-09 | 7.38E-10 | 7.38E-10 | 3.66E-10 | 8.21E-09 |
| 1547 | 259087.75 | 4083716.07 | 5.55E-09 | 7.42E-08 | 1.10E-08 | 1.10E-08 | 6.12E-09 | 1.08E-07 | 8.43E-10 | 1.13E-08 | 1.71E-09 | 1.71E-09 | 9.42E-10 | 1.65E-08 | 4.58E-10 | 6.12E-09 | 7.62E-10 | 7.62E-10 | 3.77E-10 | 8.48E-09 |
| 1548 | 259110.34 | 4083724.43 | 5.73E-09 | 7.65E-08 | 1.13E-08 | 1.13E-08 | 6.31E-09 | 1.11E-07 | 8.69E-10 | 1.17E-08 | 1.72E-09 | 1.77E-09 | 9.72E-10 | 1.70E-08 | 4.72E-10 | 6.31E-09 | 7.86E-10 | 7.86E-10 | 3.89E-10 | 8.74E-09 |
| 1549 | 259132.93 | 4083732.79 | 5.90E-09 | 7.68E-08 | 1.17E-08 | 1.17E-08 | 6.50E-09 | 1.14E-07 | 8.95E-10 | 1.20E-08 | 1.82E-09 | 1.82E-09 | 1.00E-09 | 1.75E-08 | 4.86E-10 | 6.49E-09 | 8.09E-10 | 8.09E-10 | 4.01E-10 | 9.00E-09 |
| 1550 | 259155.52 | 4083741.16 | 6.06E-09 | 8.09E-08 | 1.30E-08 | 1.20E-08 | 6.68E-09 | 1.18E-07 | 9.20E-10 | 1.23E-08 | 1.87E-09 | 1.87E-09 | 1.03E-09 | 1.80E-08 | 4.99E-10 | 6.67E-09 | 8.32E-10 | 8.32E-10 | 4.12E-10 | 9.25E-09 |
| 1551 | 259178.11 | 4083749.52 | 6.32E-09 | 8.30E-08 | 1.33E-08 | 1.23E-08 | 6.85E-09 | 1.21E-07 | 9.43E-10 | 1.26E-08 | 1.92E-09 | 1.92E-09 | 1.05E-09 | 1.85E-08 | 5.12E-10 | 6.84E-09 | 8.53E-10 | 8.55E-10 | 4.22E-10 | 9.48E-09 |
| 1552 | 259200.7 | 4083757.89 | 6.36E-09 | 6.50E-08 | 1.36E-08 | 1.26E-08 | 7.01E-09 | 1.24E-07 | 9.66E-10 | 1.30E-08 | 1.96E-09 | 1.96E-09 | 1.08E-09 | 1.89E-08 | 5.25E-10 | 7.01E-09 | 6.74E-10 | 8.74E-10 | 4.32E-10 | 9.71E-09 |
| 1553 | 259223.29 | 4083766.35 | 6.50E-09 | 8.68E-08 | 1.28E-08 | 1.26E-08 | 7.16E-09 | 1.26E-07 | 9.87E-10 | 1.32E-08 | 2.01E-09 | 2.01E-09 | 1.10E-09 | 1.93E-08 | 5.36E-10 | 7.16E-09 | 8.93E-10 | 8.93E-10 | 4.42E-10 | 9.92E-09 |
| 1554 | 259245.88 | 4083774.61 | 6.63E-09 | 8.86E-08 | 1.31E-08 | 1.31E-08 | 7.31E-09 | 1.29E-07 | 1.01E-09 | 1.35E-08 | 2.09E-09 | 2.05E-09 | 1.12E-09 | 1.97E-08 | 5.47E-10 | 7.30E-09 | 9.10E-10 | 9.10E-10 | 4.51E-10 | 1.01E-08 |
| 1555 | 259268.48 | 4083782.98 | 6.75E-09 | 9.01E-08 | 1.33E-08 | 1.33E-08 | 7.43E-09 | 1.31E-07 | 1.02E-09 | 1.37E-08 | 2.08E-09 | 2.08E-09 | 1.14E-09 | 2.01E-08 | 5.56E-10 | 7.43E-09 | 9.26E-10 | 9.26E-10 | 4.58E-10 | 1.03E-08 |
| 1556 | 259291.07 | 4083791.34 | 6.85E-09 | 9.15E-08 | 1.35E-08 | 1.35E-08 | 7.55E-09 | 1.33E-07 | 1.04E-09 | 1.39E-08 | 2.11E-09 | 2.11E-09 | 1.16E-09 | 2.04E-08 | 5.65E-10 | 7.54E-09 | 9.40E-10 | 9.40E-10 | 4.66E-10 | 1.05E-08 |
| 1557 | 259313.66 | 4083799.71 | 6.94E-09 | 9.27E-08 | 1.37E-08 | 1.37E-08 | 7.65E-09 | 1.35E-07 | 1.05E-09 | 1.41E-08 | 2.14E-09 | 2.14E-09 | 1.16E-09 | 2.06E-08 | 5.72E-10 | 7.64E-09 | 9.53E-10 | 9.55E-10 | 4.72E-10 | 1.06E-08 |
| 1558 | 259336.25 | 4083808.07 | 7.02E-09 | 9.38E-08 | 1.39E-08 | 1.39E-08 | 7.74E-09 | 1.36E-07 | 1.07E-09 | 1.43E-08 | 2.17E-09 | 2.17E-09 | 1.19E-09 | 2.09E-08 | 5.79E-10 | 7.75E-09 | 9.64E-10 | 9.64E-10 | 4.72E-10 | 1.07E-08 |
| 1559 | 259358.84 | 4085816.43 | 7.09E-09 | 9.47E-08 | 1.40E-08 | 1.40E-08 | 7.81E-09 | 1.38E-07 | 1.08E-09 | 1.44E-08 | 2.19E-09 | 2.19E-09 | 1.20E-09 | 2.11E-08 | 5.84E-10 | 7.81E-09 | 9.73E-10 | 9.73E-10 | 4.82E-10 | 1.08E-08 |
| 1560 | 259391.36 | 4083846.75 | 7.32E-09 | 9.78E-08 | 1.45E-08 | 1.45E-08 | 6.07E-09 | 1.42E-07 | 1.11E-09 | 1.49E-08 | 2.26E-09 | 2.26E-09 | 1.24E-09 | 2.16E-08 | 6.04E-10 | 8.06E-09 | 1.01E-09 | 1.01E-09 | 4.98E-10 | 1.12E-08 |
| 1581 | 255401.29 | 4085868.69 | 7.50E-09 | 1.00E-07 | 1.48E-08 | 1.48E-08 | 6.26E-09 | 1.46E-07 | 1.14E-09 | 1.53E-08 | 2.31E-09 | 2.31E-09 | 1.27E-09 | 2.23E-08 | 6.18E-10 | 8.25E-09 | 1.03E-09 | 1.03E-09 | 5.09E-10 | 1.14E-08 |
| 1582 | 259411.22 | 4083890.64 | 7.66E-09 | 1.02E-07 | 1.51E-08 | 1.51E-08 | 8.44E-09 | 1.49E-07 | 1.16E-09 | 1.56E-08 | 2.36E-09 | 2.36E-09 | 1.30E-09 | 2.28E-08 | 6.31E-10 | 8.43E-09 | 1.05E-09 | 1.05E-09 | 5.21E-10 | 1.17E-08 |
| 1583 | 259421.15 | 4083912.59 | 7.81E-09 | 1.04E-07 | 1.54E-08 | 1.54E-08 | 8.61E-09 | 1.52E-07 | 1.19E-09 | 1.59E-08 | 2.41E-09 | 2.41E-09 | 1.33E-09 | 2.32E-08 | 6.44E-10 | 8.60E-09 | 1.07E-09 | 1.07E-09 | 5.31E-10 | 1.19E-08 |
| 1564 | 259431.08 | 4083934.54 | 7.95E-09 | 1.06E-07 | 1.57E-08 | 1.57E-08 | 8.76E-09 | 1.54E-07 | 1.21E-09 | 1.62E-08 | 2.45E-09 | 2.45E-09 | 1.35E-09 | 2.36E-08 | 6.55E-10 | 8.75E-09 | 1.09E-09 | 1.09E-09 | 5.40E-10 | 1.21E-08 |
| 1565 | 259441.01 | 4083956.49 | 8.08E-09 | 1.08E-07 | 1.60E-08 | 1.60E-08 | 8.90E-09 | 1.57E-07 | 1.23E-09 | 1.64E-08 | 2.49E-09 | 2.49E-09 | 1.37E-09 | 2.40E-08 | 6.66E-10 | 8.89E-09 | 1.11E-09 | 1.11E-09 | 5.49E-10 | 1.23E-08 |
| 1566 | 259450.94 | 4083978.43 | 8.19E-09 | 1.09E-07 | 1.62E-08 | 1.62E-08 | 9.02E-09 | 1.59E-07 | 1.24E-09 | 1.67E-08 | 2.53E-09 | 2.53E-09 | 1.39E-09 | 2.43E-08 | 6.75E-10 | 9.02E-09 | 1.12E-09 | 1.12E-09 | 5.56E-10 | 1.25E-08 |
| 1567 | 259460.67 | 4084000.38 | 8.28E-09 | 1.11E-07 | 1.64E-08 | 1.64E-08 | 9.13E-09 | 1.61E-07 | 1.26E-09 | 1.69E-08 | 2.56E-09 | 2.56E-09 | 1.41E-09 | 2.46E-08 | 6.83E-10 | 9.12E-09 | 1.14E-09 | 1.14E-09 | 5.63E-10 | 1.26E-08 |
| 1568 | 259470.79 | 4084022.33 | 8.36E-09 | 1.12E-07 | 1.65E-08 | 1.65E-08 | 9.21E-09 | 1.62E-07 | 1.27E-09 | 1.70E-08 | 2.58E-09 | 2.58E-09 | 1.42E-09 | 2.49E-08 | 6.89E-10 | 9.20E-09 | 1.15E-09 | 1.15E-09 | 5.66E-10 | 1.26E-08 |
| 1569 | 259480.72 | 4084044.26 | 6.42E-09 | 1.12E-07 | 1.66E-08 | 1.66E-08 | 9.26E-09 | 1.63E-07 | 1.28E-09 | 1.71E-08 | 2.60E-09 | 2.60E-09 | 1.43E-09 | 2.50E-08 | 6.94E-10 | 9.27E-09 | 1.16E-09 | 1.16E-09 | 5.72E-10 | 1.26E-08 |
| 1570 | 259490.65 | 4084066.23 | 6.46E-09 | 1.13E-07 | 1.67E-08 | 1.67E-08 | 9.32E-09 | 1.64E-07 | 1.28E-09 | 1.72E-08 | 2.61E-09 | 2.61E-09 | 1.43E-09 | 2.52E-08 | 6.97E-10 | 9.31E-09 | 1.16E-09 | 1.16E-09 | 5.75E-10 | 1.29E-08 |
| 1571 | 259500.68 | 4084088.17 | 8.48E-09 | 1.13E-07 | 1.68E-08 | 1.68E-08 | 9.34E-09 | 1.65E-07 | 1.29E-09 | 1.72E-08 | 2.62E-09 | 2.62E-09 | 1.44E-09 | 2.52E-08 | 6.99E-10 | 9.33E-09 | 1.16E-09 | 1.16E-09 | 5.76E-10 | 1.29E-08 |
| 1572 | 259510.51 | 4084110.12 | 8.48E-09 | 1.13E-07 | 1.67E-08 | 1.67E-08 | 9.34E-09 | 1.65E-07 | 1.29E-09 | 1.72E-08 | 2.62E-09 | 2.62E-09 | 1.44E-09 | 2.52E-08 | 6.99E-10 | 9.33E-09 | 1.16E-09 | 1.16E-09 | 5.76E-10 | 1.29E-08 |
| 1573 | 259520.44 | 4084132.07 | 8.45E-09 | 1.13E-07 | 1.67E-08 | 1.67E-08 | 9.31E-09 | 1.64E-07 | 1.28E-09 | 1.72E-08 | 2.61E-09 | 2.61E-09 | 1.43E-09 | 2.51E-08 | 6.97E-10 | 9.31E-09 | 1.16E-09 | 1.16E-09 | 5.74E-10 | 1.29E-08 |
| 1574 | 259530.37 | 4084154.02 | 8.41E-09 | 1.12E-07 | 1.66E-08 | 1.66E-08 | 9.27E-09 | 1.63E-07 | 1.28E-09 | 1.71E-08 | 2.60E-09 | 2.60E-09 | 1.43E-09 | 2.50E-08 | 6.93E-10 | 9.26E-09 | 1.15E-09 | 1.15E-09 | 5.71E-10 | 1.26E-08 |
| 1575 | 259540.3 | 4084175.97 | 8.35E-09 | 1.12E-07 | 1.65E-08 | 1.65E-08 | 9.20E-09 | 1.62E-07 | 1.27E-09 | 1.70E-08 | 2.58E-09 | 2.58E-09 | 1.42E-09 | 2.48E-08 | 6.88E-10 | 9.19E-09 | 1.15E-09 | 1.15E-09 | 5.67E-10 | 1.27E-08 |
| 1576 | 259550.25 | 4084197.91 | 6.37E-09 | 1.10E-07 | 1.63E-08 | 1.63E-08 | 9.11E-09 | 1.60E-07 | 1.25E-09 | 1.68E-08 | 2.55E-09 | 2.55E-09 | 1.40E-09 | 2.46E-08 | 6.81E-10 | 9.10E-09 | 1.13E-09 | 1.13E-09 | 5.62E-10 | 1.25E-08 |
| 1577 | 259560.16 | 4084219.86 | 8.17E-09 | 1.09E-07 | 1.61E-08 | 1.61E-08 | 9.00E-09 | 1.59E-07 | 1.24E-09 | 1.66E-08 | 2.52E-09 | 2.52E-09 | 1.39E-09 | 2.43E-08 | 6.73E-10 | 8.99E-09 | 1.12E-09 | 1.12E-09 | 5.55E-10 | 1.25E-08 |
| 1576 | 259570.09 | 4084241.81 | 6.06E-09 | 1.08E-07 | 1.59E-08 | 1.59E-08 | 8.88E-09 | 1.56E-07 | 1.32E-09 | 1.64E-08 | 2.49E-09 | 2.49E-09 | 1.37E-09 | 2.40E-08 | 6.64E-10 | 8.87E-09 | 1.11E-09 | 1.11E-09 | 5.47E-10 | 1.25E-08 |
| 1579 | 259580.02 | 4084263.76 | 7.93E-09 | 1.06E-07 | 1.57E-08 | 1.57E-08 | 8.74E-09 | 1.54E-07 | 1.20E-09 | 1.61E-08 | 2.45E-09 | 2.45E-09 | 1.34E-09 | 2.36E-08 | 6.54E-10 | 8.73E-09 | 1.09E-09 | 1.09E-09 | 5.39E-10 | 1.21E-08 |
| 1580 | 259589.95 | 4084285.71 | 7.80E-09 | 1.04E-07 | 1.54E-08 | 1.54E-08 | 8.59E-09 | 1.51E-07 | 1.18E-09 | 1.59E-08 | 2.41E-09 | 2.41E-09 | 1.32E-09 | 2.32E-08 | 6.43E-10 | 8.58E-09 | 1.07E-09 | 1.07E-09 | 5.30E-10 | 1.19E-08 |
| 1581 | 259599.88 | 4084307.65 | 7.65E-09 | 1.02E-07 | 1.51E-08 | 1.51E-06 | 6.43E-09 | 1.49E-07 | 1.16E-09 | 1.56E-08 | 2.36E-09 | 2.36E-09 | 1.30E-09 | 2.28E-08 | 6.31E-10 | 8.43E-09 | 1.05E-09 | 1.05E-09 | 5.20E-10 | 1.17E-08 |
| 1582 | 259609.81 | 4084329.6 | 7.51E-09 | 1.00E-07 | 1.48E-08 | 1.48E-08 | 8.28E-09 | 1.46E-07 | 1.14E-09 | 1.55E-08 | 2.32E-09 | 2.32E-09 | 1.27E-09 | 2.23E-08 | 6.19E-10 | 8.27E-09 | 1.03E-09 | 1.03E-09 | 5.10E-10 | 1.15E-08 |
| 1583 | 259619.74 | 4084351.55 | 7.37E-09 | 9.85E-08 | 1.46E-08 | 1.46E-08 | 8.12E-09 | 1.43E-07 | 1.12E-09 | 1.50E-08 | 2.27E-09 | 2.27E-09 | 1.25E-09 | 2.19E-08 | 6.08E-10 | 8.12E-09 | 1.01E-09 | 1.01E-09 | 5.01E-10 | 1.12E-08 |
| 1584 | 259629.67 | 4084373.5 | 7.23E-09 | 9.66E-08 | 1.43E-08 | 1.43E-08 | 7.97E-09 | 1.40E-07 | 1.10E-09 | 1.47E-08 | 2.23E-09 | 2.23E-09 | 1.23E-09 | 2.15E-08 | 5.96E-10 | 7.96E-09 | 9.93E-10 | 9.93E-10 | 4.91E-10 | 1.10E-08 |
| 1585 | 259639.59 | 4084395.45 | 7.10E-09 | 9.48E-08 | 1.40E-08 | 1.40E-08 | 7.82E-09 | 1.38E-07 | 1.08E-09 | 1.44E-08 | 2.19E-09 | 2.19E-09 | 1.20E-09 | 2.11E-08 | 5.85E-10 | 7.81E-09 | 9.74E-10 | 9.74E-10 | 4.62E-10 | 1.08E-08 |
| 1586 | 259649.52 | 4084417.39 | 6.99E-09 | 9.33E-08 | 1.36E-08 | 1.38E-08 | 7.70E-09 | 1.36E-07 | 1.06E-09 | 1.42E-08 | 2.16E-09 | 2.16E-09 | 1.19E-09 | 2.08E-08 | 5.76E-10 | 7.69E-09 | 9.59E-10 | 9.59E-10 | 4.75E-10 | 1.07E-08 |
| 1587 | 259659.45 | 4084439.34 | 6.85E-09 | 9.16E-08 | 1.35E-08 | 1.35E-08 | 7.55E-09 | 1.33E-07 | 1.04E-09 | 1.39E-08 | 2.12E-09 | 2.12E-09 | 1.16E-09 | 2.04E-08 | 5.65E-10 | 7.55E-09 | 9.41E-10 | 9.41E-10 | 4.66E-10 | 1.05E-08 |
| 1588 | 259669.38 | 4084461.29 | 6.72E-09 | 6.98E-08 | 1.33E-08 | 1.33E-08 | 7.40E-09 | 1.30E-07 | 1.02E-09 | 1.37E-08 | 2.07E-09 | 2.07E-09 | 1.14E-09 | 2.00E-08 | 5.54E-10 | 7.40E-09 | 9.23E-10 | 9.23E-10 | 4.57E-10 | 1.03E-08 |
| 1589 | 259679.31 | 4084483.24 | 6.57E-09 | 6.78E-08 | 1.30E-08 | 1.30E-08 | 7.34E-09 | 1.28E-07 | 9.98E-10 | 1.34E-08 | 2.03E-09 | 2.03E-09 | 1.12E-09 | 1.95E-08 | 5.42E-10 | 7.24E-09 | 9.03E-10 | 9.03E-10 | 4.47E-10 | 1.00E-08 |
| 1590 | 259689.24 | 4084505.19 | 6.42E-09 | 8.58E-08 | 1.27E-08 | 1.27E-08 | 7.07E-09 | 1.25E-07 | 9.75E-10 | 1.31E-08 | 1.98E-09 | 1.98E-09 | 1.09E-09 | 1.91E-08 | 5.29E-10 | 7.07E-09 | 8.82E-10 | 8.82E-10 | 4.36E-10 | 9.80E-09 |
| 1591 | 259699.17 | 4084527.13 | 6.26E-09 | 8.36E-08 | 1.24E-08 | 1.24E-08 | 6.89E-09 | 1.21E-07 | 9.49E-10 | 1.27E-08 | 1.93E-09 | 1.93E-09 | 1.06E-09 | 1.86E-08 | 5.16E-10 | 6.89E-09 | 8.59E-10 | 8.59E-10 | 4.25E-10 | 9.55E-09 |
| 1592 | 259709.1 | 4084549.08 | 6.08E-09 | 8.12E-08 | 1.20E-08 | 1.20E-06 | 6.69E-09 | 1.18E-07 | 9.22E-10 | 1.24E-08 | 1.87E-09 | 1.87E-09 | 1.03E-09 | 1.81E-08 | 5.01E-10 | 6.69E-09 | 8.34E-10 | 6.34E-10 | 4.13E-10 | 9.27E-09 |
| 1593 | 259719.03 | 4084571.03 | 5.89E-09 | 7.86E-08 | 1.16E-08 | 1.16E-08 | 6.48E-09 | 1.14E-07 | 8.93E-10 | 1.20E-08 | 1.82E-09 | 1.82E-09 | 9.98E-10 | 1.75E-08 | 4.65E-10 | 6.48E-09 | 6.08E-10 | 8.08E-10 | 4.00E-10 | 6.98E-09 |
| 1594 | 259728.96 | 4084592.98 | 5.69E-09 | 7.60E-08 | 1.12E-08 | 1.12E-08 | 6.27E-09 | 1.10E-07 | 8.63E-10 | 1.16E-08 | 1.75E-09 | 1.75E-09 | 9.65E-10 | 1.69E-08 | 4.69E-10 | 6.26E-09 | 7.81E-10 | 7.81E-10 | 3.86E-10 | 6.68E-09 |
| 1595 | 259738.89 | 4084614.93 | 5.49E-09 | 7.33E-08 | 1.08E-08 | 1.08E-08 | 6.05E-09 | 1.07E-07 | 8.33E-10 | 1.12E-08 | 1.69E-09 | 1.69E-09 | 9.31E-10 | 1.63E-08 | 4.52E-10 | 6.04E-09 | 7.54E-10 | 7.54E-10 | 3.73E-10 | 6.38E-09 |
| 1596 | 259748.82 | 4084636.87 | 5.29E-09 | 7.07E-08 | 1.05E-08 | 1.05E-08 | 5.83E-09 | 1.03E-07 | 8.03E-10 | 1.08E-08 | 1.63E-09 | 1.63E-09 | 8.98E-10 | 1.57E-08 | 4.36E-10 | 5.83E-09 | 7.27E-10 | 7.37E-10 | 3.60E-10 | 6.08E-09 |
| 1597 | 259758.75 | 4084658.82 | 5.11E-09 | 6.83E-08 | 1.01E-08 | 1.01E-08 | 5.63E-09 | 9.92E-08 | 7.76E-10 | 1.04E-08 | 1.58E-09 | 1.58E-09 | 8.67E-10 | 1.52E-08 | 4.21E-10 | 5.63E-09 | 7.02E-10 | 7.02E-10 | 3.47E-10 | 7.80E-09 |
| 1598 | 259768.68 | 4084680.77 | 4.94E-09 | 6.60E-08 | 9.77E-09 | 9.77E-09 | 5.45E-09 | 9.59E-08 | 7.50E-10 | 1.01E-08 | 1.52E-09 | 1.52E-09 | 8.38E-10 | 1.47E-08 | 4.07E-10 | 5.44E-09 | 6.78E-10 | 6.78E-10 | 3.38E-10 | 7.54E-09 |
| 1599 | 259778.61 | 4084702.72 | 4.79E-09 | 6.40E-08 | 9.47E-09 | 9.47E-09 | 5.28E-09 | 9.30E-08 | 7.27E-10 | 9.75E-09 | 1.48E-09 | 1.48E-09 | 8.13E-10 | 1.42E-08 | 3.95E-10 | 5.27E-09 | 6.58E-10 | 6.58E-10 | 3.26E-10 | 7.31E-09 |
| 1600 | 259788.54 | 4084724.67 | 4.65E-09 | 6.22E-08 | 9.70E-09 | 9.20E-09 | 5.13E-09 | 9.03E-08 | 7.06E-10 | 9.47E-09 | 1.44E-09 | 1.44E-09 | 7.90E-10 | 1.38E-08 | 3.84E-10 | 5.12E-09 | 6.39E-10 | 6.39E-10 | 3.16E-10 | 7.10E-09 |
| 1601 | 259798.47 | 4084746.61 | 4.53E-09 | 6.05E-08 | 8.95E-09 | 8.95E-09 | 4.99E-09 | 8.79E-08 | 6.87E-10 | 9.22E-09 | 1.40E-09 | 1.40E-09 | 7.68E-10 | 1.35E-08 | 3.73E-10 | 4.99E-09 | 6.22E-10 | 6.22E-10 | 3.08E-10 | 6.91E-09 |
| 1602 | 259808.39 | 4084768.56 | 4.41E-09 | 5.89E-08 | 8.72E-09 | 6.72E-09 | 4.86E-09 | 8.56E-08 | 6.69E-10 | 8.98E-09 | 1.36E-09 | 1.36E-09 | 7.48E-10 | 1.31E-08 | 3.64E-10 | 4.86E-09 | 6.06E-10 | 6.06E-10 | 3.00E-10 | 6.73E-09 |
| 1603 | 259818.32 | 4084790.51 | 4.30E-09 | 5.74E-08 | 8.49E-09 | 8.49E-09 | 4.73E-09 | 8.34E-08 | 6.52E-10 | 8.74E-09 | 1.33E-09 | 1.33E-09 | 7.29E-10 | 1.26E-08 | 3.54E-10 | 4.73E-09 | 5.90E-10 | 5.90E-10 | 2.92E-10 | 6.56E-09 |
| 1604 | 259828.25 | 4084812.46 | 4.18E-09 | 5.58E-08 | 8.26E-09 | 8.26E-09 | 4.61E-09 | 8.11E-08 | 6.34E-10 | 8.51E-09 | 1.29E-09 | 1.29E-09 | 7.09E-10 | 1.24E-08 | 3.45E-10 | 4.60E-09 | 5.74E-10 | 5.74E-10 | 2.84E-10 | 6.38E-09 |
| 1605 | 259838.18 | 4084834.41 | 4.06E-09 | 5.42E-08 | 8.03E-09 | 8.03E-09 | 4.47E-09 | 7.88E-08 | 6.16E-10 | 8.26E-09 | 1.25E-09 | 1.25E-09 | 6.89E-10 | 1.21E-08 | 3.35E-10 | 4.47E-09 | 5.56E-10 | 5.58E-10 | 2.76E-10 | 6.20E-09 |
| 1606 | 259848.11 | 4084856.35 | 3.94E-09 | 5.26E-08 | 7.78E-09 | 7.76E-09 | 4.34E-09 | 7.64E-08 | 5.98E-10 | 8.01E-09 | 1.21E-09 | 1.21E-09 | 6.68E-10 | 1.17E-08 | 3.25E-10 | 4.35E-09 | 5.41E-10 | 5.41E-10 | 2.66E-10 | 6.01E-09 |
| 1607 | 258297.07 | 4083423.33 | 1.42E-09 | 1.89E-08 | 2.80E-09 | 2.80E-09 | 1.56E-09 | 2.75E-08 | 2.15E-10 | 2.88E-09 | 4.37E-10 | 4.37E-10 | 2.40E-10 | 4.21E-09 | 1.17E-10 | 1.56E-09 | 1.95E-10 | 1.95E-10 | 9.63E-11 | 2.16E-09 |
| 1608 | 258272.73 | 4083424.33 | 1.39E-09 | 1.86E-08 | 2.75E-09 | 2.75E-09 | 1.53E-09 | 2.70E-08 | 2.11E-10 | 2.83E-09 | 4.29E-10 | 4.29E-10 | 2.36E-10 | 4.13E-09 | 1.15E-10 | 1.53E-09 | 1.91E-10 | 1.91E-10 | 9.44E-11 | 2.12E-09 |
| 1609 | 258248.4 | 4083425.33 | 1.36E-09 | 1.82E-08 | 2.69E-09 | 2.69E-09 | 1.50E-09 | 2.65E-08 | 2.07E-10 | 2.77E-09 | 4.21E-10 | 4.21E-10 | 2.31E-10 | 4.05E-09 | 1.12E-10 | 1.50E-09 | 1.87E-10 | 1.87E-10 | 9.26E-11 | 2.08E-09 |
| 1610 | 258224.07 | 4083426.33 | 1.34E-09 | 1.79E-08 | 2.64E-09 | 2.64E-09 | 1.47E-09 | 2.60E-08 | 2.03E-10 | 2.72E-09 | 4.13E-10 | 4.13E-10 | 2.27E-10 | 3.98E-09 | 1.10E-10 | 1.47E-09 | 1.84E-10 | 1.84E-10 | 9.09E-11 | 2.04E-09 |
| 1611 | 258199.74 | 4083427.33 | 1.31E-09 | 1.75E-08 | 2.60E-09 | 2.60E-09 | 1.45E-09 | 2.55E-08 | 1.99E-10 | 2.67E-09 | 4.05E-10 | 4.05E-10 | 2.23E-10 | 3.91E-09 | 1.08E-10 | 1.45E-09 | 1.80E-10 | 1.80E-10 | 8.92E-11 | 2.00E-09 |
| 1612 | 258175.41 | 4083428.33 | 1.29E-09 | 1.77E-08 | 2.55E-09 | 2.55E-09 | 1.42E-09 | 2.50E-08 | 1.96E-10 | 2.63E-09 | 3.98E-10 | 3.98E-10 | 2.19E-10 | 3.84E-09 | 1.06E-10 | 1.42E-09 | 1.77E-10 | 1.77E-10 | 6.77E-11 | 1.97E-09 |
| 1613 | 258151.07 | 4083429.33 | 1.27E-09 | 1.69E-08 | 2.50E-09 | 2.50E-09 | 1.40E-09 | 2.48E-08 | 1.92E-10 | 2.58E-09 | 3.91E-10 | 3.91E-10 | 2.15E-10 | 3.77E-09 | 1.04E-10 | 1.39E-09 | 1.74E-10 | 1.74E-10 | 8.61E-11 | 1.93E-09 |
| 1614 | 258126.74 | 4083430.33 | 1.24E-09 | 1.66E-08 | 2.46E-09 | 2.46E-09 | 1.37E-09 | 2.41E-08 | 1.89E-10 | 2.53E-09 | 3.84E-10 | 3.84E-10 | 2.11E-10 | 3.70E-09 | 1.03E-10 | 1.37E-09 | 1.71E-10 | 1.71E-10 | 6.45E-11 | 1.90E-09 |
| 1615 | 258102.41 | 4083431.33 | 1.22E-09 | 1.63E-08 | 2.41E-09 | 2.41E-09 | 1.34E-09 | 2.37E-08 | 1.85E-10 | 2.48E-09 | 3.72E-10 | 3.77E-10 | 2.07E-10 | 3.63E-09 | 1.01E-10 | 1.34E-09 | 1.68E-10 | 1.68E-10 | 8.29E-11 | 1.86E-09 |
| 1616 | 258078.08 | 4083432.33 | 1.20E-09 | 1.60E-08 | 2.37E-09 | 2.37E-09 | 1.32E-09 | 2.32E-08 | 1.82E-10 | 2.44E-09 | 3.69E-10 | 3.69E-10 | 2.03E-10 | 3.56E-09 | 9.87E-11 | 1.32E-09 | 1.64E-10 | 1.64E-10 | 8.14E-11 | 1.83E-09 |
| 1617 | 258053.75 | 4083433.33 | 1.18E-09 | 1.57E-08 | 2.32E-09 | 2.32E-09

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1413 | 258685.67 | 4083763.99 | 4.12E-09 | 5.50E-08 | 8.14E-09 | 6.14E-09 | 4.54E-09 | 8.00E-08 |
| 1414 | 258708.04 | 4083722.26 | 4.32E-09 | 5.72E-08 | 8.54E-09 | 6.54E-09 | 4.76E-09 | 8.39E-08 |
| 1413 | 258730.42 | 4083780.56 | 4.33E-09 | 6.05E-08 | 8.96E-09 | 6.96E-09 | 4.99E-09 | 8.80E-08 |
| 1416 | 258752.8 | 4083788.84 | 4.75E-09 | 6.34E-08 | 9.38E-09 | 9.38E-09 | 5.23E-09 | 9.22E-08 |
| 1417 | 258775.17 | 4083797.13 | 4.97E-09 | 6.64E-08 | 9.82E-09 | 9.82E-09 | 5.47E-09 | 9.64E-08 |
| 1418 | 258797.35 | 4083805.41 | 5.19E-09 | 6.94E-08 | 1.03E-08 | 1.03E-08 | 5.77E-09 | 1.01E-07 |
| 1419 | 258819.92 | 4083813.7 | 5.43E-09 | 7.25E-08 | 1.07E-08 | 1.07E-08 | 5.98E-09 | 1.05E-07 |
| 1420 | 258842.3 | 4083821.98 | 5.66E-09 | 7.58E-08 | 1.12E-08 | 1.12E-08 | 6.23E-09 | 1.10E-07 |
| 1421 | 258864.68 | 4083830.27 | 3.89E-09 | 7.87E-08 | 1.18E-08 | 1.16E-08 | 6.49E-09 | 1.14E-07 |
| 1422 | 258887.05 | 4083838.55 | 6.13E-09 | 8.18E-08 | 1.21E-09 | 1.21E-08 | 6.73E-09 | 1.19E-07 |
| 1423 | 258909.43 | 4083846.83 | 6.36E-09 | 8.50E-08 | 1.26E-08 | 1.26E-08 | 7.01E-09 | 1.23E-07 |
| 1424 | 258931.8 | 4083853.12 | 6.59E-09 | 8.81E-08 | 1.30E-08 | 1.30E-08 | 7.27E-09 | 1.28E-07 |
| 1425 | 258954.18 | 4083863.4 | 6.83E-09 | 9.12E-08 | 1.35E-08 | 1.35E-08 | 7.52E-09 | 1.32E-07 |
| 1426 | 258976.35 | 4083871.69 | 7.05E-09 | 9.42E-08 | 1.39E-08 | 1.39E-08 | 7.77E-09 | 1.37E-07 |
| 1427 | 258998.93 | 4083879.97 | 7.27E-09 | 9.72E-08 | 1.44E-08 | 1.44E-08 | 8.01E-09 | 1.41E-07 |
| 1428 | 259021.31 | 4083888.26 | 7.49E-09 | 1.00E-07 | 1.48E-08 | 1.48E-08 | 8.23E-09 | 1.43E-07 |
| 1429 | 259043.68 | 4083896.54 | 7.69E-09 | 1.03E-07 | 1.52E-08 | 1.52E-08 | 8.48E-09 | 1.49E-07 |
| 1430 | 259066.06 | 4083904.83 | 7.88E-09 | 1.05E-07 | 1.56E-08 | 1.56E-08 | 8.69E-09 | 1.53E-07 |
| 1431 | 259088.43 | 4083913.11 | 8.06E-09 | 1.08E-07 | 1.39E-08 | 1.59E-08 | 8.89E-09 | 1.37E-07 |
| 1432 | 259110.61 | 4083921.39 | 8.23E-09 | 1.10E-07 | 1.63E-08 | 1.63E-08 | 9.07E-09 | 1.60E-07 |
| 1433 | 259133.18 | 4083929.68 | 8.38E-09 | 1.12E-07 | 1.66E-08 | 1.66E-08 | 9.24E-09 | 1.63E-07 |
| 1434 | 259155.56 | 4083937.96 | 8.32E-09 | 1.14E-07 | 1.68E-08 | 1.68E-08 | 9.38E-09 | 1.85E-07 |
| 1435 | 259177.94 | 4083946.25 | 8.63E-09 | 1.15E-07 | 1.70E-08 | 1.70E-08 | 9.51E-09 | 1.67E-07 |
| 1458 | 259200.31 | 4083954.53 | 8.73E-09 | 1.17E-07 | 1.72E-08 | 1.72E-08 | 9.61E-09 | 1.69E-07 |
| 1437 | 259222.69 | 4083962.82 | 8.81E-09 | 1.18E-07 | 1.74E-08 | 1.74E-08 | 9.70E-09 | 1.71E-07 |
| 1438 | 259254.9 | 4083992.84 | 9.15E-09 | 1.22E-07 | 1.80E-08 | 1.80E-08 | 1.00E-09 | 1.77E-07 |
| 1439 | 259264.73 | 4084014.58 | 9.33E-09 | 1.25E-07 | 1.84E-08 | 1.84E-08 | 1.03E-08 | 1.81E-07 |
| 1440 | 259274.57 | 4084036.32 | 9.54E-09 | 1.27E-07 | 1.88E-08 | 1.88E-08 | 1.05E-08 | 1.85E-07 |
| 1441 | 259284.4 | 4084058.06 | 9.75E-09 | 1.30E-07 | 1.92E-08 | 1.92E-08 | 1.07E-08 | 1.89E-07 |
| 1442 | 259294.24 | 4084079.8 | 9.90E-09 | 1.32E-07 | 1.96E-08 | 1.96E-08 | 1.09E-08 | 1.92E-07 |
| 1443 | 259304.07 | 4084101.33 | 1.00E-08 | 1.34E-07 | 1.98E-08 | 1.98E-08 | 1.11E-08 | 1.95E-07 |
| 1444 | 259313.91 | 4084123.27 | 1.02E-08 | 1.36E-07 | 2.05E-08 | 2.01E-08 | 1.12E-09 | 1.97E-07 |
| 1445 | 259323.74 | 4084145.01 | 1.03E-08 | 1.37E-07 | 2.03E-08 | 2.03E-09 | 1.13E-08 | 1.99E-07 |
| 1446 | 259333.58 | 4084166.75 | 1.03E-08 | 1.38E-07 | 2.04E-09 | 2.04E-08 | 1.14E-08 | 2.00E-07 |
| 1447 | 259343.41 | 4084188.49 | 1.04E-08 | 1.38E-07 | 2.05E-08 | 2.05E-08 | 1.14E-08 | 2.01E-07 |
| 1448 | 259353.25 | 4084210.23 | 1.04E-08 | 1.38E-07 | 2.05E-08 | 2.05E-08 | 1.14E-08 | 2.01E-07 |
| 1449 | 259363.08 | 4084231.97 | 1.03E-08 | 1.38E-07 | 2.04E-08 | 2.04E-08 | 1.14E-08 | 2.01E-07 |
| 1450 | 259372.92 | 4084253.71 | 1.03E-08 | 1.37E-07 | 2.03E-08 | 2.05E-08 | 1.15E-08 | 2.00E-07 |
| 1451 | 259382.75 | 4084275.45 | 1.02E-08 | 1.36E-07 | 2.02E-08 | 2.02E-08 | 1.12E-08 | 1.98E-07 |
| 1452 | 259392.59 | 4084297.16 | 1.01E-08 | 1.35E-07 | 1.99E-08 | 1.99E-08 | 1.11E-08 | 1.96E-07 |
| 1453 | 259402.42 | 4084318.92 | 9.96E-09 | 1.33E-07 | 1.97E-08 | 1.97E-08 | 1.10E-08 | 1.93E-07 |
| 1454 | 259412.26 | 4084340.66 | 9.81E-09 | 1.31E-07 | 1.94E-08 | 1.94E-09 | 1.08E-08 | 1.90E-07 |
| 1455 | 259422.09 | 4084362.4 | 9.64E-09 | 1.29E-07 | 1.91E-08 | 1.91E-08 | 1.06E-08 | 1.87E-07 |
| 1456 | 259431.93 | 4084384.14 | 9.46E-09 | 1.26E-07 | 1.87E-08 | 1.87E-08 | 1.04E-08 | 1.84E-07 |
| 1457 | 259441.78 | 4084405.88 | 9.31E-09 | 1.24E-07 | 1.84E-08 | 1.84E-08 | 1.03E-08 | 1.81E-07 |
| 1458 | 259451.6 | 4084427.62 | 9.11E-09 | 1.22E-07 | 1.80E-08 | 1.80E-08 | 1.00E-08 | 1.77E-07 |
| 1459 | 259461.43 | 4084449.36 | 8.95E-09 | 1.19E-07 | 1.76E-08 | 1.76E-08 | 9.82E-09 | 1.73E-07 |
| 1460 | 259471.28 | 4084471.1 | 8.71E-09 | 1.16E-07 | 1.72E-09 | 1.72E-08 | 9.60E-09 | 1.69E-07 |
| 1481 | 259481.1 | 4084492.64 | 8.51E-09 | 1.14E-07 | 1.68E-09 | 1.68E-08 | 9.38E-09 | 1.65E-07 |
| 1462 | 259490.93 | 4084514.57 | 8.30E-09 | 1.11E-07 | 1.64E-08 | 1.64E-08 | 9.15E-09 | 1.61E-07 |
| 1462 | 259500.77 | 4084558.31 | 8.09E-09 | 1.08E-07 | 1.60E-08 | 1.60E-08 | 8.92E-09 | 1.57E-07 |
| 1464 | 259510.6 | 4084558.05 | 7.87E-09 | 1.05E-07 | 1.56E-08 | 1.56E-08 | 8.67E-09 | 1.33E-07 |
| 1465 | 259520.44 | 4084579.79 | 7.64E-09 | 1.02E-07 | 1.51E-08 | 1.51E-08 | 6.41E-09 | 1.48E-07 |
| 1466 | 259530.27 | 4084601.33 | 7.39E-09 | 9.67E-08 | 1.46E-08 | 1.46E-08 | 8.14E-09 | 1.43E-07 |
| 1487 | 259540.11 | 4084623.27 | 7.13E-09 | 9.32E-08 | 1.41E-08 | 1.41E-08 | 7.85E-09 | 1.38E-07 |
| 1468 | 259549.94 | 4084645.01 | 6.86E-09 | 9.17E-08 | 1.38E-08 | 1.36E-08 | 7.56E-09 | 1.33E-07 |
| 1469 | 259559.78 | 4084666.73 | 6.60E-09 | 8.62E-08 | 1.30E-08 | 1.30E-08 | 7.27E-09 | 1.26E-07 |
| 1470 | 259569.61 | 4084688.49 | 6.35E-09 | 8.48E-08 | 1.25E-08 | 1.25E-08 | 6.99E-09 | 1.25E-07 |
| 1471 | 259579.45 | 4084710.22 | 8.11E-09 | 8.16E-08 | 1.21E-08 | 1.21E-08 | 8.73E-09 | 1.19E-07 |
| 1472 | 259589.28 | 4084731.96 | 5.89E-09 | 7.67E-08 | 1.16E-08 | 1.16E-08 | 6.49E-09 | 1.14E-07 |
| 1473 | 259599.12 | 4084753.7 | 5.69E-09 | 7.60E-08 | 1.12E-08 | 1.12E-08 | 6.27E-09 | 1.10E-07 |
| 1474 | 259608.95 | 4084725.44 | 3.50E-09 | 7.33E-08 | 1.09E-08 | 1.09E-08 | 6.06E-09 | 1.07E-07 |
| 1475 | 259616.79 | 4084797.18 | 5.33E-09 | 7.12E-08 | 1.05E-08 | 1.05E-09 | 5.87E-09 | 1.03E-07 |
| 1476 | 259628.62 | 4084818.92 | 5.16E-09 | 6.89E-08 | 1.02E-08 | 1.02E-08 | 5.68E-09 | 1.00E-07 |
| 1477 | 259638.46 | 4084840.66 | 4.99E-09 | 6.67E-08 | 9.86E-09 | 9.88E-09 | 5.50E-09 | 9.69E-09 |
| 1478 | 259648.29 | 4084862.4 | 4.82E-09 | 6.44E-08 | 9.33E-09 | 9.53E-09 | 5.32E-09 | 9.37E-08 |
| 1479 | 258305.28 | 4083623.16 | 1.91E-09 | 2.55E-08 | 3.72E-09 | 3.77E-09 | 2.10E-09 | 3.70E-08 |
| 1480 | 258260.95 | 4083624.16 | 1.86E-09 | 2.49E-08 | 3.68E-09 | 3.68E-09 | 2.05E-09 | 3.61E-08 |
| 1481 | 258256.62 | 4083625.16 | 1.82E-09 | 2.43E-08 | 3.59E-09 | 3.59E-09 | 2.00E-09 | 3.53E-08 |
| 1482 | 258232.29 | 4083628.16 | 1.78E-09 | 2.37E-08 | 3.51E-09 | 3.31E-09 | 1.96E-09 | 3.45E-08 |
| 1483 | 258207.95 | 4083627.15 | 1.73E-09 | 2.32E-08 | 3.43E-09 | 3.45E-09 | 1.91E-09 | 3.37E-08 |
| 1484 | 258183.62 | 4083628.16 | 1.69E-09 | 2.26E-08 | 3.35E-09 | 3.35E-09 | 1.87E-09 | 3.29E-08 |
| 1485 | 258159.29 | 4083629.16 | 1.65E-09 | 2.21E-08 | 3.27E-09 | 3.27E-09 | 1.82E-09 | 3.21E-08 |
| 1486 | 258134.96 | 4083650.16 | 1.61E-09 | 2.16E-08 | 3.19E-09 | 3.19E-09 | 1.78E-09 | 3.15E-08 |
| 1487 | 258110.63 | 4083631.16 | 1.57E-09 | 2.10E-08 | 3.11E-09 | 3.11E-09 | 1.73E-09 | 3.05E-09 |
| 1488 | 258086.29 | 4083632.16 | 1.53E-09 | 2.05E-08 | 3.03E-09 | 3.03E-09 | 1.69E-09 | 2.98E-08 |
| 1489 | 258061.96 | 4083633.16 | 1.50E-09 | 2.00E-08 | 2.96E-09 | 2.96E-09 | 1.85E-09 | 2.91E-08 |
| 1490 | 258037.63 | 4083634.16 | 1.46E-09 | 1.95E-08 | 2.89E-09 | 2.89E-09 | 1.61E-09 | 2.84E-08 |
| 1491 | 258015.3 | 4083635.16 | 1.42E-09 | 1.90E-08 | 2.61E-09 | 2.61E-09 | 1.57E-09 | 2.76E-08 |
| 1492 | 257988.97 | 4083636.16 | 1.39E-09 | 1.86E-08 | 2.75E-09 | 2.75E-09 | 1.53E-09 | 2.70E-08 |
| 1493 | 257964.64 | 4085837.16 | 1.36E-09 | 1.61E-08 | 2.68E-09 | 2.68E-09 | 1.49E-09 | 2.63E-08 |
| 1494 | 257940.3 | 4083638.16 | 1.32E-09 | 1.77E-08 | 2.62E-09 | 2.62E-09 | 1.46E-09 | 2.37E-08 |
| 1495 | 257915.97 | 4083639.16 | 1.29E-09 | 1.73E-08 | 2.36E-09 | 2.56E-09 | 1.42E-09 | 2.31E-08 |
| 1496 | 257891.64 | 4083640.16 | 1.26E-09 | 1.69E-08 | 2.50E-09 | 2.50E-09 | 1.39E-09 | 2.45E-08 |
| 1497 | 257867.31 | 4083641.16 | 1.24E-09 | 1.65E-09 | 2.45E-09 | 2.45E-09 | 1.36E-09 | 2.40E-08 |
| 1498 | 257842.98 | 4083642.16 | 1.21E-09 | 1.62E-08 | 2.39E-09 | 2.39E-09 | 1.35E-09 | 2.35E-08 |
| 1499 | 257818.64 | 4083643.16 | 1.19E-09 | 1.39E-08 | 2.35E-09 | 2.35E-09 | 1.31E-09 | 2.31E-08 |
| 1500 | 257794.31 | 4083644.16 | 1.17E-09 | 1.56E-08 | 2.30E-09 | 2.30E-09 | 1.28E-09 | 2.26E-08 |
| 1501 | 257769.98 | 4083645.16 | 1.15E-09 | 1.53E-08 | 2.27E-09 | 2.27E-09 | 1.26E-09 | 2.22E-08 |
| 1502 | 257745.65 | 4083646.16 | 1.13E-09 | 1.50E-08 | 2.23E-09 | 2.23E-09 | 1.24E-09 | 2.19E-08 |
| 1503 | 257721.32 | 4083647.16 | 1.15E-09 | 1.48E-08 | 2.19E-09 | 2.19E-09 | 1.22E-09 | 2.15E-08 |
| 1504 | 257696.99 | 4083648.16 | 1.09E-09 | 1.46E-08 | 2.16E-09 | 2.16E-09 | 1.20E-09 | 2.12E-08 |
| 1505 | 257672.65 | 4083649.17 | 1.08E-09 | 1.44E-08 | 2.15E-09 | 2.13E-09 | 1.19E-09 | 2.09E-08 |
| 1506 | 257648.32 | 4083650.17 | 1.06E-09 | 1.42E-08 | 2.10E-09 | 2.10E-09 | 1.17E-09 | 2.07E-08 |
| 1507 | 237623.99 | 4083651.17 | 1.05E-09 | 1.40E-08 | 2.08E-09 | 2.08E-09 | 1.16E-09 | 2.04E-08 |
| 1508 | 257599.66 | 4083652.17 | 1.04E-09 | 1.39E-08 | 2.05E-09 | 2.05E-09 | 1.14E-09 | 2.01E-08 |
| 1509 | 257575.33 | 4083653.17 | 1.03E-09 | 1.37E-09 | 2.03E-09 | 2.03E-09 | 1.15E-09 | 1.99E-08 |
| 1510 | 257550.99 | 4083654.17 | 1.01E-09 | 1.35E-08 | 2.00E-09 | 2.00E-09 | 1.12E-09 | 1.97E-08 |
| 1511 | 257528.66 | 4083655.17 | 1.00E-09 | 1.34E-08 | 1.98E-09 | 1.98E-09 | 1.10E-09 | 1.95E-08 |
| 1512 | 257502.33 | 4083656.17 | 9.90E-10 | 1.32E-08 | 1.96E-09 | 1.96E-09 | 1.09E-09 | 1.92E-08 |
| 1513 | 258319.66 | 4083431.69 | 1.46E-09 | 1.95E-08 | 2.89E-09 | 2.89E-09 | 1.61E-09 | 2.84E-08 |
| 1514 | 256342.25 | 4083440.05 | 1.51E-09 | 2.02E-08 | 2.98E-09 | 2.98E-09 | 1.66E-09 | 2.93E-08 |
| 1515 | 258364.84 | 4083448.42 | 1.56E-09 | 2.08E-08 | 3.08E-09 | 3.08E-09 | 1.72E-09 | 3.02E-08 |
| 1516 | 258367.43 | 4083456.78 | 1.81E-09 | 2.15E-08 | 3.18E-09 | 3.18E-09 | 1.72E-09 | 3.13E-08 |
| 1517 | 258410.02 | 4083465.15 | 1.67E-09 | 2.23E-08 | 3.29E-09 | 3.29E-09 | 1.84E-09 | 3.23E-08 |
| 1518 | 258432.61 | 4083473.31 | 1.73E-09 | 2.31E-08 | 3.41E-09 | 3.41E-09 | 1.90E-09 | 3.35E-09 |
| 1519 | 258455.2 | 4083481.87 | 1.79E-09 | 2.39E-08 | 3.54E-09 | 3.54E-09 | 1.97E-09 | 3.47E-08 |
| 1520 | 258472.79 | 4083490.24 | 1.86E-09 | 2.48E-08 | 3.67E-09 | 3.87E-09 | 2.04E-09 | 3.60E-08 |
| 1521 | 258500.38 | 4083498.6 | 1.93E-09 | 2.37E-09 | 3.80E-09 | 3.80E-09 | 2.12E-09 | 3.74E-08 |
| 1522 | 258522.97 | 4083506.97 | 2.00E-09 | 2.67E-08 | 3.95E-09 | 3.95E-09 | 2.20E-09 | 3.68E-08 |
| 1523 | 258543.37 | 4083515.33 | 2.08E-09 | 2.78E-08 | 4.11E-09 | 4.11E-09 | 2.29E-09 | 4.04E-08 |
| 1524 | 258568.16 | 4083523.69 | 2.17E-09 | 2.89E-08 | 4.28E-09 | 4.28E-09 | 2.39E-09 | 4.21E-08 |
| 1525 | 258590.75 | 4083532.06 | 2.26E-09 | 3.02E-08 | 4.46E-09 | 4.46E-09 | 2.49E-09 | 4.38E-08 |
| 1526 | 258613.34 | 4083540.42 | 2.36E-09 | 3.15E-08 | 4.66E-09 | 4.66E-09 | 2.60E-09 | 4.37E-08 |
| 1527 | 258635.93 | 4083548.79 | 2.46E-09 | 3.29E-08 | 4.86E-09 | 4.86E-09 | 2.71E-09 | 4.77E-09 |
| 1528 | 258658.52 | 4083557.15 | 2.57E-09 | 3.43E-08 | 5.08E-09 | 5.08E-09 | 2.83E-09 | 4.99E-08 |
| 1529 | 258681.11 | 4083565.51 | 2.69E-09 | 3.59E-08 | 3.31E-09 | 5.31E-09 | 2.96E-09 | 5.22E-09 |
| 1530 | 258703.7 | 4083573.88 | 2.81E-09 | 3.75E-08 | 5.56E-09 | 5.56E-09 | 3.10E-09 | 5.46E-08 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 6.25E-10 | 6.38E-09 | 1.27E-09 | 1.27E-09 | 8.99E-10 | 1.23E-08 | | | |
| 6.56E-10 | 8.80E-09 | 1.33E-09 | 1.33E-09 | 7.33E-10 | 1.29E-08 | | | |
| 6.88E-10 | 9.22E-09 | 1.40E-09 | 1.40E-09 | 7.69E-10 | 1.35E-08 | | | |
| 7.21E-10 | 9.66E-09 | 1.47E-09 | 1.47E-09 | 8.06E-10 | 1.41E-09 | | | |
| 7.54E-10 | 1.01E-08 | 1.53E-09 | 1.53E-09 | 8.43E-10 | 1.48E-08 | | | |
| 7.88E-10 | 1.06E-08 | 1.60E-09 | 1.60E-09 | 8.81E-10 | 1.54E-08 | | | |
| 8.23E-10 | 1.10E-08 | 1.67E-09 | 1.67E-09 | 9.20E-10 | 1.61E-08 | | | |
| 8.59E-10 | 1.15E-08 | 1.75E-09 | 1.75E-09 | 9.60E-10 | 1.68E-08 | | | |
| 8.94E-10 | 1.20E-08 | 1.82E-09 | 1.82E-09 | 9.99E-10 | 1.75E-08 | | | |
| 9.30E-10 | 1.25E-08 | 1.89E-09 | 1.89E-09 | 1.04E-09 | 1.82E-08 | | | |
| 9.65E-10 | 1.29E-08 | 1.96E-09 | 1.96E-09 | 1.08E-09 | 1.89E-08 | | | |
| 1.00E-09 | 1.34E-08 | 2.03E-09 | 2.03E-09 | 1.12E-09 | 1.96E-08 | | | |
| 1.04E-09 | 1.39E-08 | 2.11E-09 | 2.11E-09 | 1.16E-09 | 2.03E-08 | | | |
| 1.07E-09 | 1.44E-08 | 2.18E-09 | 2.16E-09 | 1.20E-09 | 2.10E-08 | | | |
| 1.10E-09 | 1.48E-08 | 2.24E-09 | 2.24E-09 | 1.23E-09 | 2.16E-09 | | | |
| 1.14E-09 | 1.52E-08 | 2.31E-09 | 2.31E-09 | 1.27E-09 | 2.23E-08 | | | |
| 1.17E-09 | 1.57E-08 | 2.37E-09 | 2.37E-09 | 1.31E-09 | 2.29E-08 | | | |
| 1.20E-09 | 1.60E-08 | 2.45E-09 | 2.43E-09 | 1.34E-09 | 2.34E-08 | | | |
| 1.22E-09 | 1.64E-08 | 2.49E-09 | 2.49E-09 | 1.37E-09 | 2.40E-08 | | | |
| 1.25E-09 | 1.67E-08 | 2.54E-09 | 2.54E-09 | 1.40E-09 | 2.45E-08 | | | |
| 1.27E-09 | 1.71E-08 | 2.59E-09 | 2.59E-09 | 1.42E-09 | 2.49E-08 | | | |
| 1.29E-09 | 1.73E-08 | 2.63E-09 | 2.63E-09 | 1.44E-09 | 2.53E-08 | | | |
| 1.31E-09 | 1.76E-08 | 2.66E-09 | 2.66E-09 | 1.46E-09 | 2.57E-08 | | | |
| 1.32E-09 | 1.78E-08 | 2.69E-09 | 2.69E-09 | 1.46E-09 | 2.39E-08 | | | |
| 1.34E-09 | 1.79E-08 | 2.72E-09 | 2.72E-09 | 1.49E-09 | 2.62E-08 | | | |
| 1.38E-09 | 1.85E-08 | 2.85E-09 | 2.81E-09 | 1.53E-09 | 2.71E-08 | | | |
| 1.42E-09 | 1.90E-08 | 2.88E-09 | 2.88E-09 | 1.58E-09 | 2.77E-08 | | | |
| 1.45E-09 | 1.94E-08 | 2.94E-09 | 2.94E-09 | 1.62E-09 | 2.84E-09 | | | |
| 1.48E-09 | 1.98E-08 | 3.00E-09 | 3.00E-09 | 1.65E-09 | 2.89E-08 | | | |
| 1.60E-09 | 2.01E-08 | 3.05E-09 | 3.05E-09 | 1.68E-09 | 2.94E-08 | | | |
| 1.52E-09 | 2.04E-08 | 3.10E-09 | 3.10E-09 | 1.70E-09 | 2.99E-08 | | | |
| 1.54E-09 | 2.07E-08 | 3.14E-09 | 3.14E-09 | 1.72E-09 | 3.02E-08 | | | |
| 1.56E-09 | 2.09E-08 | 3.16E-09 | 3.16E-09 | 1.74E-09 | 3.05E-08 | | | |
| 1.57E-09 | 2.10E-08 | 3.18E-09 | 3.18E-09 | 1.75E-09 | 3.07E-08 | | | |
| 1.57E-09 | 2.11E-08 | 3.20E-09 | 3.20E-09 | 1.76E-09 | 3.08E-08 | | | |
| 1.57E-09 | 2.11E-08 | 3.20E-09 | 3.20E-09 | 1.76E-09 | 3.08E-08 | | | |
| 1.57E-09 | 2.10E-08 | 3.19E-09 | 3.19E-09 | 1.75E-09 | 3.07E-08 | | | |
| 1.56E-09 | 2.09E-08 | 3.17E-09 | 3.17E-09 | 1.74E-09 | 3.06E-08 | | | |
| 1.55E-09 | 2.08E-08 | 3.15E-09 | 3.15E-09 | 1.73E-09 | 3.03E-08 | | | |
| 1.53E-09 | 2.05E-08 | 3.11E-09 | 3.11E-09 | 1.71E-09 | 3.00E-08 | | | |
| 1.51E-09 | 2.03E-08 | 3.07E-09 | 3.07E-09 | 1.69E-09 | 2.96E-08 | | | |
| 1.49E-09 | 2.00E-08 | 3.03E-09 | 3.03E-09 | 1.66E-09 | 2.92E-08 | | | |
| 1.46E-09 | 1.96E-08 | 2.97E-09 | 2.97E-09 | 1.64E-09 | 2.87E-08 | | | |
| 1.44E-09 | 1.93E-08 | 2.92E-09 | 2.92E-09 | 1.60E-09 | 2.81E-08 | | | |
| 1.41E-09 | 1.89E-09 | 2.87E-09 | 2.87E-09 | 1.58E-09 | 2.77E-08 | | | |
| 1.38E-09 | 1.85E-09 | 2.81E-09 | 2.81E-09 | 1.55E-09 | 2.71E-08 | | | |
| 1.35E-09 | 1.61E-08 | 2.75E-09 | 2.75E-09 | 1.51E-09 | 2.65E-08 | | | |
| 1.32E-09 | 1.72E-08 | 2.69E-09 | 2.69E-09 | 1.48E-09 | 2.59E-08 | | | |
| 1.29E-09 | 1.73E-08 | 2.63E-09 | 2.63E-09 | 1.44E-09 | 2.53E-08 | | | |
| 1.26E-09 | 1.69E-08 | 2.56E-09 | 2.56E-09 | 1.41E-09 | 2.47E-08 | | | |
| 1.25E-09 | 1.65E-08 | 2.50E-09 | 2.50E-09 | 1.37E-09 | 2.41E-08 | | | |
| 1.19E-09 | 1.60E-08 | 2.43E-09 | 2.43E-09 | 1.34E-09 | 2.34E-08 | | | |
| 1.16E-09 | 1.55E-08 | 2.36E-09 | 2.36E-09 | 1.30E-09 | 2.27E-08 | | | |
| 1.12E-09 | 1.50E-08 | 2.28E-09 | 2.26E-09 | 1.25E-09 | 2.20E-08 | | | |
| 1.08E-09 | 1.45E-08 | 2.20E-09 | 2.20E-09 | 1.21E-09 | 2.12E-08 | | | |
| 1.04E-09 | 1.40E-09 | 2.12E-09 | 2.12E-09 | 1.18E-09 | 2.04E-08 | | | |
| 1.00E-09 | 1.34E-08 | 2.04E-09 | 2.04E-09 | 1.12E-09 | 1.96E-08 | | | |
| 9.63E-10 | 1.29E-08 | 1.96E-09 | 1.96E-09 | 1.08E-09 | 1.89E-09 | | | |
| 9.27E-10 | 1.24E-08 | 1.88E-09 | 1.68E-09 | 1.04E-09 | 1.82E-09 | | | |
| 8.94E-10 | 1.20E-08 | 1.82E-09 | 1.62E-09 | 9.99E-10 | 1.75E-09 | | | |
| 6.63E-10 | 1.16E-08 | 1.73E-09 | 1.75E-09 | 9.65E-10 | 1.69E-08 | | | |
| 8.35E-10 | 1.12E-08 | 1.70E-09 | 1.70E-09 | 9.33E-10 | 1.64E-08 | | | |
| 8.09E-10 | 1.08E-08 | 1.64E-09 | 1.64E-09 | 9.04E-10 | 1.58E-09 | | | |
| 7.83E-10 | 1.05E-08 | 1.39E-09 | 1.39E-09 | 8.75E-10 | 1.53E-08 | | | |
| 7.58E-10 | 1.02E-08 | 1.34E-09 | 1.54E-09 | 8.47E-10 | 1.48E-08 | | | |
| 7.32E-10 | 9.62E-09 | 1.49E-09 | 1.49E-09 | 6.18E-10 | 1.43E-08 | | | |
| 2.89E-10 | 3.88E-09 | 5.88E-10 | 5.88E-10 | 3.23E-10 | 5.67E-09 | | | |
| 2.83E-10 | 3.79E-09 | 5.74E-10 | 5.74E-10 | 3.16E-10 | 5.54E-09 | | | |
| 2.76E-10 | 3.70E-09 | 5.61E-10 | 5.61E-10 | 3.08E-10 | 5.41E-09 | | | |
| 2.70E-10 | 3.61E-09 | 5.48E-10 | 5.48E-10 | 3.01E-10 | 5.28E-09 | | | |
| 2.63E-10 | 3.33E-09 | 5.35E-10 | 5.35E-10 | 2.94E-10 | 5.16E-09 | | | |
| 2.57E-10 | 3.45E-09 | 5.23E-10 | 5.25E-10 | 2.87E-10 | 5.04E-09 | | | |
| 2.51E-10 | 3.37E-09 | 5.10E-10 | 5.10E-10 | 2.61E-10 | 4.92E-09 | | | |
| 2.45E-10 | 3.26E-09 | 4.98E-10 | 4.98E-10 | 2.74E-10 | 4.80E-09 | | | |
| 2.39E-10 | 3.20E-09 | 4.86E-10 | 4.86E-10 | 2.67E-10 | 4.68E-09 | | | |
| 2.33E-10 | 3.12E-09 | 4.74E-10 | 4.74E-10 | 2.60E-10 | 4.58E-09 | | | |
| 2.27E-10 | 3.05E-09 | 4.62E-10 | 4.62E-10 | 2.54E-10 | 4.45E-09 | | | |
| 2.22E-10 | 2.97E-09 | 4.31E-10 | 4.51E-10 | 2.48E-10 | 4.34E-09 | | | |
| 2.16E-10 | 2.90E-09 | 4.39E-10 | 4.39E-10 | 2.41E-10 | 4.25E-09 | | | |
| 2.11E-10 | 2.83E-09 | 4.29E-10 | 4.29E-10 | 2.36E-10 | 4.15E-09 | | | |
| 2.06E-10 | 2.76E-09 | 4.16E-10 | 4.16E-10 | 2.50E-10 | 4.05E-09 | | | |
| 2.01E-10 | 2.69E-09 | 4.09E-10 | 4.09E-10 | 2.25E-10 | 3.94E-09 | | | |
| 1.96E-10 | 2.63E-09 | 3.99E-10 | 3.99E-10 | 2.19E-10 | 3.85E-09 | | | |
| 1.92E-10 | 2.57E-09 | 3.90E-10 | 3.90E-10 | 2.14E-10 | 3.76E-09 | | | |
| 1.88E-10 | 2.52E-09 | 3.82E-10 | 3.82E-10 | 2.10E-10 | 3.68E-09 | | | |
| 1.84E-10 | 2.46E-09 | 3.74E-10 | 3.74E-10 | 2.05E-10 | 3.60E-09 | | | |
| 1.80E-10 | 2.42E-09 | 3.67E-10 | 3.67E-10 | 2.02E-10 | 3.35E-09 | | | |
| 1.77E-10 | 2.37E-09 | 3.60E-10 | 3.60E-10 | 1.98E-10 | 3.47E-09 | | | |
| 1.74E-10 | 2.33E-09 | 3.54E-10 | 3.54E-10 | 1.94E-10 | 3.41E-09 | | | |
| 1.71E-10 | 2.29E-09 | 3.47E-10 | 3.47E-10 | 1.91E-10 | 3.35E-09 | | | |
| 1.68E-10 | 2.26E-09 | 3.42E-10 | 3.42E-10 | 1.88E-10 | 3.30E-09 | | | |
| 1.66E-10 | 2.23E-09 | 3.37E-10 | 3.37E-10 | 1.85E-10 | 3.25E-09 | | | |
| 1.64E-10 | 2.19E-09 | 3.33E-10 | 3.33E-10 | 1.83E-10 | 3.21E-09 | | | |
| 1.61E-10 | 2.17E-09 | 3.28E-10 | 3.28E-10 | 1.81E-10 | 3.16E-09 | | | |
| 1.59E-10 | 2.14E-09 | 3.24E-10 | 3.24E-10 | 1.78E-10 | 3.12E-09 | | | |
| 1.57E-10 | 2.11E-09 | 3.20E-10 | 3.20E-10 | 1.76E-10 | 3.09E-09 | | | |
| 1.56E-10 | 2.09E-09 | 3.16E-10 | 3.16E-10 | 1.74E-10 | 3.05E-09 | | | |
| 1.54E-10 | 2.06E-09 | 3.13E-10 | 3.13E-10 | 1.72E-10 | 3.01E-09 | | | |
| 1.52E-10 | 2.04E-09 | 3.09E-10 | 3.09E-10 | 1.70E-10 | 2.98E-09 | | | |
| 1.50E-10 | 2.01E-09 | 3.05E-10 | 3.05E-10 | 1.68E-10 | 2.94E-09 | | | |
| 2.22E-10 | 2.97E-09 | 4.51E-10 | 4.51E-10 | 2.48E-10 | 4.34E-09 | | | |
| 2.29E-10 | 3.07E-09 | 4.65E-10 | 4.65E-10 | 2.56E-10 | 4.49E-09 | | | |
| 2.36E-10 | 3.17E-09 | 4.81E-10 | 4.65E-10 | 2.64E-10 | 4.63E-09 | | | |
| 2.44E-10 | 3.28E-09 | 4.97E-10 | 4.97E-10 | 2.73E-10 | 4.79E-09 | | | |
| 2.53E-10 | 3.39E-09 | 5.14E-10 | 5.14E-10 | 2.83E-10 | 4.96E-09 | | | |
| 2.62E-10 | 3.31E-09 | 5.33E-10 | 5.33E-10 | 2.95E-10 | 5.13E-09 | | | |
| 2.71E-10 | 3.64E-09 | 5.52E-10 | 5.52E-10 | 3.03E-10 | 5.32E-09 | | | |
| 2.82E-10 | 3.78E-09 | 5.73E-10 | 5.73E-10 | 3.15E-10 | 5.52E-09 | | | |
| 2.92E-10 | 3.92E-09 | 3.94E-10 | 5.94E-10 | 3.27E-10 | 5.72E-09 | | | |
| 3.04E-10 | 4.07E-09 | 6.17E-10 | 8.17E-10 | 3.39E-10 | 5.93E-09 | | | |
| 3.16E-10 | 4.24E-09 | 6.42E-10 | 8.42E-10 | 3.53E-10 | 8.19E-09 | | | |
| 3.29E-10 | 4.41E-09 | 8.69E-10 | 8.69E-10 | 3.68E-10 | 8.44E-09 | | | |
| 3.43E-10 | 4.60E-09 | 8.97E-10 | 8.97E-10 | 3.83E-10 | 8.71E-09 | | | |
| 3.58E-10 | 4.79E-09 | 7.27E-10 | 7.27E-10 | 4.00E-10 | 7.00E-09 | | | |
| 3.73E-10 | 5.00E-09 | 7.59E-10 | 7.59E-10 | 4.17E-10 | 7.31E-09 | | | |
| 3.90E-10 | 5.23E-09 | 7.93E-10 | 7.93E-10 | 4.36E-10 | 7.64E-09 | | | |
| 4.08E-10 | 5.47E-09 | 8.30E-10 | 8.30E-10 | 4.56E-10 | 7.99E-09 | | | |
| 4.27E-10 | 5.72E-

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1295 | 258338.22 | 4083831.4 | 2.92E-09 | 3.90E-08 | 5.78E-09 | 5.78E-09 | 3.22E-09 | 5.67E-08 |
| 1296 | 258358.94 | 4083839.61 | 3.07E-09 | 4.11E-08 | 6.08E-09 | 6.08E-09 | 3.39E-09 | 5.97E-08 |
| 1297 | 256381.68 | 4083848.22 | 3.24E-09 | 4.33E-08 | 6.40E-09 | 6.40E-09 | 3.57E-09 | 6.29E-08 |
| 1298 | 258404.38 | 4083856.64 | 3.42E-09 | 4.56E-08 | 6.75E-09 | 6.75E-09 | 3.76E-09 | 8.63E-08 |
| 1299 | 258427.1 | 4083865.05 | 3.81E-09 | 4.82E-08 | 7.13E-09 | 7.13E-09 | 3.98E-09 | 7.01E-08 |
| 1300 | 258449.82 | 4083873.46 | 3.82E-09 | 5.10E-08 | 7.34E-09 | 7.54E-09 | 4.20E-09 | 7.41E-08 |
| 1301 | 258472.34 | 4083881.87 | 4.04E-09 | 5.40E-08 | 7.98E-09 | 7.98E-09 | 4.45E-09 | 7.84E-08 |
| 1302 | 258495.26 | 4083890.28 | 4.27E-09 | 5.71E-08 | 8.45E-09 | 6.45E-09 | 4.71E-09 | 8.30E-08 |
| 1303 | 258517.98 | 4083898.69 | 4.52E-09 | 6.04E-08 | 8.94E-09 | 8.94E-09 | 4.98E-09 | 8.76E-08 |
| 1304 | 258540.7 | 4083907.11 | 4.79E-09 | 6.39E-08 | 9.46E-09 | 9.46E-09 | 5.27E-09 | 9.29E-08 |
| 1305 | 258563.42 | 4083915.52 | 5.06E-09 | 6.76E-08 | 1.00E-08 | 1.00E-08 | 5.58E-09 | 9.83E-08 |
| 1306 | 256586.14 | 4083923.93 | 5.35E-09 | 7.14E-08 | 1.06E-08 | 1.06E-08 | 5.89E-09 | 1.04E-07 |
| 1307 | 258608.86 | 4083932.34 | 5.65E-09 | 7.54E-08 | 1.12E-08 | 1.12E-08 | 6.22E-09 | 1.10E-07 |
| 1308 | 258631.58 | 4083940.75 | 5.95E-09 | 7.95E-08 | 1.18E-08 | 1.18E-08 | 6.56E-09 | 1.16E-07 |
| 1309 | 258654.3 | 4083949.17 | 6.27E-09 | 6.37E-08 | 1.24E-08 | 1.24E-08 | 6.91E-09 | 1.22E-07 |
| 1310 | 258677.02 | 4083957.58 | 6.59E-09 | 8.81E-08 | 1.30E-08 | 1.30E-08 | 7.26E-09 | 1.28E-07 |
| 1311 | 258699.74 | 4083965.99 | 6.92E-09 | 9.25E-08 | 1.37E-08 | 1.37E-08 | 7.63E-09 | 1.34E-07 |
| 1312 | 258722.46 | 4083974.4 | 7.26E-09 | 9.69E-08 | 1.43E-08 | 1.43E-08 | 7.99E-09 | 1.41E-07 |
| 1313 | 258745.18 | 4083982.81 | 7.59E-09 | 1.01E-07 | 1.50E-08 | 1.50E-08 | 6.37E-09 | 1.47E-07 |
| 1314 | 258767.9 | 4083991.22 | 7.93E-09 | 1.06E-07 | 1.57E-08 | 1.57E-08 | 6.73E-09 | 1.54E-07 |
| 1315 | 258790.62 | 4083999.64 | 8.26E-09 | 1.10E-07 | 1.63E-08 | 1.63E-08 | 9.10E-09 | 1.60E-07 |
| 1316 | 258813.34 | 4084008.05 | 8.59E-09 | 1.15E-07 | 1.70E-08 | 1.70E-08 | 9.46E-09 | 1.67E-07 |
| 1317 | 258836.06 | 4084016.46 | 8.91E-09 | 1.19E-07 | 1.76E-08 | 1.76E-08 | 9.82E-09 | 1.73E-07 |
| 1318 | 256858.78 | 4084024.87 | 9.23E-09 | 1.23E-07 | 1.82E-08 | 1.82E-08 | 1.02E-08 | 1.79E-07 |
| 1319 | 258881.5 | 4084033.28 | 9.53E-09 | 1.27E-07 | 1.88E-08 | 1.88E-08 | 1.05E-08 | 1.65E-07 |
| 1320 | 258904.22 | 4084041.7 | 9.82E-09 | 1.31E-07 | 1.94E-08 | 1.94E-08 | 1.08E-08 | 1.91E-07 |
| 1321 | 258926.94 | 4084050.11 | 1.01E-08 | 1.33E-07 | 2.00E-08 | 2.00E-08 | 1.11E-08 | 1.96E-07 |
| 1322 | 258949.66 | 4084058.52 | 1.03E-08 | 1.38E-07 | 2.04E-08 | 2.04E-08 | 1.14E-08 | 2.01E-07 |
| 1323 | 258972.38 | 4084066.93 | 1.06E-08 | 1.41E-07 | 2.09E-08 | 2.09E-08 | 1.16E-08 | 2.05E-07 |
| 1324 | 258995.1 | 4084075.34 | 1.08E-08 | 1.44E-07 | 2.13E-08 | 2.13E-08 | 1.19E-08 | 2.09E-07 |
| 1325 | 259017.82 | 4084083.75 | 1.10E-08 | 1.46E-07 | 2.17E-08 | 2.17E-08 | 1.21E-08 | 2.13E-07 |
| 1326 | 259040.34 | 4084092.17 | 1.11E-08 | 1.49E-07 | 2.20E-08 | 2.70E-08 | 1.22E-08 | 2.16E-07 |
| 1327 | 259063.26 | 4084100.58 | 1.12E-08 | 1.50E-07 | 2.22E-08 | 2.22E-08 | 1.24E-08 | 2.16E-07 |
| 1328 | 259085.98 | 4084108.99 | 1.13E-08 | 1.52E-07 | 2.24E-08 | 2.24E-08 | 1.25E-08 | 2.20E-07 |
| 1329 | 259118.68 | 4084139.48 | 1.17E-08 | 1.57E-07 | 2.32E-08 | 2.32E-08 | 1.29E-08 | 2.26E-07 |
| 1330 | 259128.67 | 4084161.55 | 1.21E-08 | 1.61E-07 | 2.38E-08 | 2.38E-08 | 1.33E-08 | 2.34E-07 |
| 1331 | 259138.66 | 4084183.62 | 1.23E-08 | 1.66E-07 | 2.44E-08 | 2.44E-08 | 1.36E-08 | 2.39E-07 |
| 1332 | 259148.64 | 4084205.7 | 1.26E-08 | 1.68E-07 | 2.48E-08 | 2.48E-08 | 1.39E-08 | 2.44E-07 |
| 1333 | 259158.63 | 4084227.77 | 1.28E-08 | 1.71E-07 | 2.52E-08 | 2.52E-08 | 1.41E-08 | 2.48E-07 |
| 1334 | 259168.61 | 4084249.84 | 1.29E-08 | 1.73E-07 | 2.56E-08 | 2.56E-08 | 1.42E-08 | 2.51E-07 |
| 1335 | 259178.6 | 4084271.92 | 1.30E-08 | 1.74E-07 | 2.58E-08 | 2.58E-09 | 1.44E-08 | 2.53E-07 |
| 1336 | 259188.59 | 4084293.99 | 1.31E-08 | 1.75E-07 | 2.59E-08 | 2.59E-09 | 1.44E-08 | 2.54E-07 |
| 1337 | 259198.57 | 4084316.06 | 1.31E-08 | 1.75E-07 | 2.59E-08 | 2.59E-08 | 1.45E-08 | 2.55E-07 |
| 1338 | 259208.56 | 4084338.14 | 1.31E-08 | 1.76E-07 | 2.59E-08 | 2.59E-08 | 1.44E-08 | 2.54E-07 |
| 1339 | 259218.54 | 4084360.21 | 1.30E-08 | 1.74E-07 | 2.57E-06 | 2.57E-09 | 1.43E-08 | 2.53E-07 |
| 1340 | 259228.53 | 4084382.28 | 1.29E-08 | 1.72E-07 | 2.55E-08 | 2.55E-08 | 1.42E-08 | 2.50E-07 |
| 1341 | 259238.52 | 4084404.36 | 1.27E-08 | 1.70E-07 | 2.52E-08 | 2.52E-09 | 1.40E-08 | 2.47E-07 |
| 1342 | 259248.5 | 4084426.43 | 1.26E-08 | 1.68E-07 | 2.49E-08 | 2.49E-08 | 1.39E-08 | 2.44E-07 |
| 1343 | 259258.49 | 4084448.5 | 1.24E-08 | 1.65E-07 | 2.44E-08 | 2.44E-08 | 1.36E-08 | 2.40E-07 |
| 1344 | 259268.48 | 4084470.58 | 1.21E-08 | 1.62E-07 | 2.39E-08 | 2.39E-08 | 1.33E-08 | 2.35E-07 |
| 1345 | 259278.46 | 4084492.65 | 1.18E-08 | 1.58E-07 | 2.34E-08 | 2.34E-09 | 1.30E-08 | 2.29E-07 |
| 1346 | 259288.45 | 4084514.72 | 1.15E-08 | 1.54E-07 | 2.28E-08 | 2.28E-08 | 1.27E-08 | 2.24E-07 |
| 1347 | 259298.43 | 4084536.8 | 1.12E-08 | 1.50E-07 | 2.22E-08 | 2.22E-08 | 1.24E-08 | 2.18E-07 |
| 1348 | 259308.42 | 4084558.87 | 1.09E-08 | 1.46E-07 | 2.15E-08 | 2.15E-09 | 1.20E-08 | 2.11E-07 |
| 1349 | 259318.41 | 4084580.94 | 1.06E-08 | 1.41E-07 | 2.09E-08 | 2.09E-09 | 1.16E-08 | 2.05E-07 |
| 1350 | 259328.39 | 4084603.02 | 1.02E-08 | 1.36E-07 | 2.02E-08 | 2.02E-08 | 1.13E-08 | 1.98E-07 |
| 1351 | 259338.38 | 4084625.09 | 9.86E-09 | 1.32E-07 | 1.95E-08 | 1.95E-08 | 1.09E-08 | 1.91E-07 |
| 1352 | 259348.36 | 4084647.16 | 9.49E-09 | 1.27E-07 | 1.88E-06 | 1.88E-08 | 1.05E-08 | 1.84E-07 |
| 1353 | 259358.35 | 4084669.24 | 9.11E-09 | 1.22E-07 | 1.80E-08 | 1.80E-08 | 1.00E-08 | 1.77E-07 |
| 1354 | 259368.34 | 4084691.31 | 8.72E-09 | 1.17E-07 | 1.73E-08 | 1.73E-08 | 9.62E-09 | 1.69E-07 |
| 1355 | 259378.32 | 4084713.38 | 8.35E-09 | 1.12E-07 | 1.65E-08 | 1.85E-08 | 9.20E-09 | 1.62E-07 |
| 1356 | 259388.31 | 4084735.46 | 7.99E-09 | 1.07E-07 | 1.58E-08 | 1.58E-08 | 8.80E-09 | 1.55E-07 |
| 1357 | 259398.29 | 4084757.53 | 7.64E-09 | 1.02E-07 | 1.51E-08 | 1.51E-08 | 8.42E-09 | 1.48E-07 |
| 1358 | 259408.28 | 4084779.6 | 7.32E-08 | 9.76E-08 | 1.45E-08 | 1.45E-08 | 8.07E-09 | 1.42E-07 |
| 1359 | 259418.27 | 4084801.68 | 7.02E-09 | 9.36E-08 | 1.39E-08 | 1.39E-08 | 7.74E-09 | 1.36E-07 |
| 1360 | 259428.25 | 4084823.75 | 6.74E-09 | 9.00E-08 | 1.33E-08 | 1.33E-08 | 7.43E-09 | 1.31E-07 |
| 1361 | 259438.24 | 4084845.82 | 6.47E-09 | 8.65E-08 | 1.28E-08 | 1.28E-08 | 7.13E-09 | 1.25E-07 |
| 1362 | 259448.23 | 4084867.9 | 8.21E-09 | 8.30E-08 | 1.23E-08 | 1.23E-08 | 6.84E-09 | 1.21E-07 |
| 1363 | 258313.5 | 4083822.99 | 2.78E-09 | 3.72E-08 | 5.50E-09 | 5.50E-09 | 3.07E-09 | 5.41E-08 |
| 1364 | 258269.16 | 4083823.99 | 2.70E-09 | 3.61E-08 | 5.34E-09 | 5.34E-09 | 2.98E-09 | 5.25E-08 |
| 1365 | 258264.63 | 4083824.99 | 2.62E-09 | 3.50E-08 | 5.19E-09 | 5.19E-09 | 2.89E-09 | 5.09E-08 |
| 1366 | 258240.5 | 4083825.99 | 2.55E-09 | 3.40E-08 | 5.04E-09 | 5.04E-09 | 2.81E-09 | 4.95E-08 |
| 1367 | 258216.17 | 4083826.99 | 2.47E-09 | 3.30E-08 | 4.89E-09 | 4.89E-09 | 2.73E-09 | 4.80E-08 |
| 1368 | 258191.84 | 4083827.99 | 2.40E-09 | 3.20E-08 | 4.74E-09 | 4.74E-09 | 2.64E-09 | 4.66E-08 |
| 1369 | 258167.51 | 4083828.99 | 2.33E-09 | 3.11E-08 | 4.60E-09 | 4.60E-09 | 2.56E-09 | 4.52E-08 |
| 1370 | 258143.17 | 4083829.99 | 2.26E-09 | 3.01E-08 | 4.46E-09 | 4.46E-09 | 2.49E-09 | 4.38E-08 |
| 1371 | 258118.84 | 4083830.99 | 2.19E-09 | 2.92E-08 | 4.32E-09 | 4.32E-09 | 2.41E-09 | 4.25E-08 |
| 1372 | 258094.51 | 4083831.99 | 2.12E-09 | 2.83E-08 | 4.18E-09 | 4.18E-09 | 2.33E-09 | 4.11E-08 |
| 1373 | 258070.18 | 4083832.99 | 2.05E-09 | 2.74E-08 | 4.05E-09 | 4.05E-09 | 2.26E-09 | 3.98E-08 |
| 1374 | 258045.85 | 4083833.99 | 1.99E-09 | 2.65E-08 | 3.93E-09 | 3.93E-09 | 2.19E-09 | 3.86E-08 |
| 1375 | 258021.51 | 4083834.99 | 1.93E-09 | 2.57E-08 | 3.80E-09 | 3.80E-09 | 2.12E-09 | 3.74E-08 |
| 1376 | 257997.18 | 4083835.99 | 1.87E-09 | 2.49E-08 | 3.69E-09 | 3.69E-09 | 2.06E-09 | 3.62E-08 |
| 1377 | 257972.85 | 4083836.99 | 1.81E-09 | 2.42E-08 | 3.58E-09 | 3.58E-09 | 1.99E-09 | 3.51E-08 |
| 1378 | 257948.52 | 4083827.99 | 1.76E-09 | 2.35E-09 | 3.47E-09 | 3.47E-09 | 1.94E-09 | 3.41E-08 |
| 1379 | 257924.19 | 4083838.99 | 1.71E-09 | 2.28E-09 | 3.38E-09 | 3.38E-09 | 1.88E-09 | 3.32E-08 |
| 1380 | 257899.86 | 4083839.99 | 1.66E-09 | 2.22E-08 | 3.29E-09 | 3.29E-09 | 1.83E-09 | 3.23E-08 |
| 1381 | 257675.53 | 4083840.99 | 1.62E-09 | 2.16E-08 | 3.20E-09 | 3.20E-09 | 1.78E-09 | 3.14E-08 |
| 1382 | 257851.19 | 4083841.99 | 1.98E-09 | 2.11E-08 | 3.13E-09 | 3.13E-09 | 1.74E-09 | 3.07E-08 |
| 1383 | 257826.86 | 4083842.99 | 1.55E-09 | 2.06E-08 | 3.05E-09 | 3.05E-09 | 1.70E-09 | 3.00E-08 |
| 1384 | 257802.53 | 4083843.99 | 1.51E-09 | 2.02E-08 | 2.99E-09 | 2.99E-09 | 1.67E-09 | 2.94E-08 |
| 1385 | 257778.2 | 4083845 | 1.48E-09 | 1.98E-08 | 2.93E-09 | 2.93E-09 | 1.63E-09 | 2.88E-08 |
| 1386 | 257753.86 | 4083846 | 1.46E-09 | 1.95E-08 | 2.88E-09 | 2.88E-09 | 1.61E-09 | 2.63E-08 |
| 1387 | 257729.53 | 4083847 | 1.43E-09 | 1.91E-08 | 2.83E-09 | 2.83E-09 | 1.58E-09 | 2.76E-08 |
| 1388 | 257705.2 | 4083848 | 1.41E-09 | 1.88E-08 | 2.79E-09 | 2.79E-09 | 1.55E-09 | 2.74E-08 |
| 1389 | 257680.87 | 4083849 | 1.39E-09 | 1.86E-08 | 2.75E-09 | 2.75E-09 | 1.53E-09 | 2.70E-08 |
| 1390 | 257658.54 | 4083850 | 1.37E-09 | 1.83E-08 | 2.71E-09 | 2.71E-09 | 1.51E-09 | 2.66E-08 |
| 1391 | 257632.21 | 4083851 | 1.35E-09 | 1.61E-08 | 2.67E-09 | 2.67E-09 | 1.49E-09 | 2.62E-08 |
| 1392 | 257607.87 | 4083852 | 1.33E-09 | 1.76E-08 | 2.64E-09 | 2.64E-09 | 1.47E-09 | 2.59E-08 |
| 1393 | 257583.54 | 4083853 | 1.32E-09 | 1.76E-08 | 2.60E-09 | 2.60E-09 | 1.45E-09 | 2.56E-08 |
| 1394 | 257559.21 | 4083834 | 1.30E-09 | 1.74E-09 | 2.57E-09 | 2.57E-09 | 1.43E-09 | 2.52E-08 |
| 1395 | 257534.88 | 4083855 | 1.28E-09 | 1.71E-08 | 2.53E-09 | 2.53E-09 | 1.41E-09 | 2.49E-08 |
| 1396 | 257510.55 | 4083856 | 1.26E-09 | 1.69E-08 | 2.50E-09 | 2.50E-09 | 1.39E-09 | 2.43E-08 |
| 1397 | 258327.66 | 4083631.44 | 1.98E-09 | 2.64E-08 | 3.91E-09 | 3.91E-09 | 2.18E-09 | 3.84E-08 |
| 1396 | 258350.03 | 4083639.72 | 2.06E-09 | 2.75E-08 | 4.06E-09 | 4.06E-09 | 2.27E-09 | 3.99E-08 |
| 1399 | 258372.41 | 4083648.01 | 2.14E-09 | 2.86E-09 | 4.23E-09 | 4.23E-09 | 2.36E-09 | 4.15E-08 |
| 1400 | 258394.78 | 4083658.29 | 2.23E-09 | 2.97E-08 | 4.40E-09 | 4.40E-09 | 2.45E-09 | 4.32E-08 |
| 1401 | 258417.16 | 4083664.58 | 2.32E-09 | 3.10E-08 | 4.59E-09 | 4.59E-09 | 2.56E-09 | 4.51E-08 |
| 1402 | 258439.54 | 4083672.86 | 2.43E-09 | 3.24E-08 | 4.79E-09 | 4.79E-09 | 2.67E-09 | 4.71E-08 |
| 1403 | 258461.91 | 4083681.15 | 2.54E-09 | 3.39E-08 | 5.01E-09 | 5.01E-09 | 2.79E-09 | 4.92E-08 |
| 1404 | 258484.29 | 4083689.43 | 2.65E-09 | 3.54E-08 | 5.24E-09 | 5.24E-09 | 2.92E-09 | 5.13E-08 |
| 1405 | 258506.66 | 4083697.72 | 2.78E-09 | 3.72E-08 | 5.50E-09 | 5.30E-09 | 3.06E-09 | 5.40E-08 |
| 1406 | 258529.04 | 4083706 | 2.92E-09 | 3.90E-08 | 5.77E-09 | 5.77E-09 | 3.21E-09 | 5.66E-08 |
| 1407 | 258551.41 | 4083714.29 | 3.06E-09 | 4.09E-08 | 6.05E-09 | 6.05E-09 | 3.38E-09 | 5.95E-08 |
| 1408 | 258573.79 | 4083722.57 | 3.22E-09 | 4.30E-08 | 6.38E-09 | 6.36E-09 | 3.53E-09 | 6.25E-08 |
| 1409 | 258596.17 | 4083730.85 | 3.38E-09 | 4.52E-08 | 6.68E-09 | 6.68E-09 | 3.72E-09 | 6.57E-08 |
| 1410 | 258618.54 | 4083739.14 | 3.55E-09 | 4.75E-08 | 7.02E-09 | 7.02E-09 | 3.92E-09 | 6.90E-08 |
| 1411 | 258640.92 | 4083747.42 | 3.74E-09 | 4.99E-08 | 7.38E-09 | 7.38E-09 | 4.12E-09 | 7.25E-08 |
| 1412 | 258663.29 | 4083755.71 | 3.92E-09 | 5.24E-08 | 7.75E-09 | 7.75E-09 | 4.32E-09 | 7.62E-08 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4.44E-10 | 5.95E-09 | 9.02E-10 | 9.02E-10 | 4.96E-10 | 8.69E-09 |
| 4.67E-10 | 6.26E-09 | 9.49E-10 | 9.49E-10 | 5.22E-10 | 9.14E-09 |
| 4.92E-10 | 6.59E-09 | 9.99E-10 | 9.99E-10 | 5.49E-10 | 9.63E-09 |
| 5.19E-10 | 6.95E-09 | 1.05E-09 | 1.05E-09 | 5.80E-10 | 1.02E-08 |
| 5.46E-10 | 7.34E-09 | 1.11E-09 | 1.11E-09 | 6.12E-10 | 1.07E-08 |
| 5.79E-10 | 7.77E-09 | 1.16E-09 | 1.18E-09 | 6.47E-10 | 1.13E-08 |
| 6.13E-10 | 6.22E-09 | 1.25E-09 | 1.25E-09 | 6.85E-10 | 1.20E-08 |
| 6.49E-10 | 6.70E-09 | 1.32E-09 | 1.32E-09 | 7.25E-10 | 1.27E-08 |
| 6.87E-10 | 9.21E-09 | 1.40E-09 | 1.40E-09 | 7.67E-10 | 1.35E-08 |
| 7.26E-10 | 9.74E-09 | 1.48E-09 | 1.48E-09 | 8.12E-10 | 1.42E-08 |
| 7.68E-10 | 1.03E-08 | 1.56E-09 | 1.56E-09 | 8.59E-10 | 1.51E-08 |
| 8.12E-10 | 1.09E-08 | 1.65E-09 | 1.65E-09 | 9.07E-10 | 1.59E-08 |
| 8.57E-10 | 1.15E-08 | 1.74E-09 | 1.74E-09 | 9.58E-10 | 1.68E-08 |
| 9.04E-10 | 1.21E-09 | 1.84E-09 | 1.84E-09 | 1.01E-09 | 1.77E-08 |
| 9.52E-10 | 1.26E-08 | 1.93E-09 | 1.93E-09 | 1.06E-09 | 1.86E-08 |
| 1.00E-09 | 1.34E-08 | 2.03E-09 | 2.03E-09 | 1.12E-09 | 1.96E-08 |
| 1.05E-09 | 1.41E-08 | 2.14E-09 | 2.14E-09 | 1.17E-09 | 2.06E-08 |
| 1.10E-09 | 1.48E-08 | 2.24E-09 | 2.24E-09 | 1.23E-09 | 2.16E-08 |
| 1.15E-09 | 1.54E-08 | 2.34E-09 | 2.34E-09 | 1.29E-09 | 2.26E-09 |
| 1.20E-09 | 1.61E-08 | 2.45E-09 | 2.45E-09 | 1.34E-09 | 2.36E-08 |
| 1.25E-09 | 1.66E-08 | 2.55E-09 | 2.55E-09 | 1.40E-09 | 2.46E-08 |
| 1.30E-09 | 1.75E-08 | 2.65E-09 | 2.65E-09 | 1.46E-09 | 2.55E-08 |
| 1.35E-09 | 1.81E-08 | 2.75E-09 | 2.75E-09 | 1.51E-09 | 2.65E-08 |
| 1.40E-09 | 1.68E-08 | 2.85E-09 | 2.85E-09 | 1.57E-09 | 2.74E-08 |
| 1.45E-09 | 1.94E-09 | 2.94E-09 | 2.94E-09 | 1.62E-09 | 2.83E-08 |
| 1.49E-09 | 2.00E-08 | 3.03E-09 | 3.03E-09 | 1.67E-09 | 2.92E-08 |
| 1.53E-09 | 2.05E-08 | 3.12E-09 | 3.12E-09 | 1.71E-09 | 3.00E-08 |
| 1.57E-09 | 2.10E-08 | 3.19E-09 | 3.19E-09 | 1.75E-09 | 3.07E-08 |
| 1.60E-09 | 2.15E-08 | 3.26E-09 | 3.26E-09 | 1.79E-09 | 3.14E-08 |
| 1.63E-09 | 2.19E-08 | 3.32E-09 | 3.32E-09 | 1.83E-09 | 3.20E-08 |
| 1.66E-09 | 2.23E-08 | 3.38E-09 | 3.38E-09 | 1.86E-09 | 3.26E-08 |
| 1.69E-09 | 2.26E-08 | 3.43E-09 | 3.43E-09 | 1.89E-09 | 3.31E-08 |
| 1.71E-09 | 2.29E-08 | 3.47E-09 | 3.47E-09 | 1.91E-09 | 3.34E-08 |
| 1.72E-09 | 2.31E-08 | 3.50E-09 | 3.50E-09 | 1.92E-09 | 3.37E-08 |
| 1.76E-09 | 2.39E-08 | 3.82E-09 | 3.62E-09 | 1.99E-09 | 3.49E-08 |
| 1.83E-09 | 2.45E-08 | 3.72E-09 | 3.72E-09 | 2.04E-09 | 3.58E-09 |
| 1.87E-09 | 2.51E-08 | 3.80E-09 | 3.80E-09 | 2.09E-09 | 3.67E-08 |
| 1.91E-09 | 2.56E-08 | 3.88E-09 | 3.88E-09 | 2.13E-09 | 3.74E-08 |
| 1.94E-09 | 2.60E-08 | 3.94E-09 | 3.94E-09 | 2.17E-09 | 3.60E-08 |
| 1.96E-09 | 2.63E-08 | 3.99E-09 | 3.99E-09 | 2.19E-09 | 3.84E-08 |
| 1.98E-09 | 2.65E-08 | 4.02E-09 | 4.02E-09 | 2.21E-09 | 3.88E-08 |
| 1.99E-09 | 2.67E-08 | 4.04E-09 | 4.04E-09 | 2.22E-09 | 3.90E-08 |
| 1.99E-09 | 2.67E-08 | 4.05E-09 | 4.05E-09 | 2.23E-09 | 3.90E-08 |
| 1.99E-09 | 2.66E-08 | 4.04E-09 | 4.04E-09 | 2.22E-09 | 3.89E-08 |
| 1.98E-09 | 2.65E-08 | 4.02E-09 | 4.02E-09 | 2.21E-09 | 3.87E-08 |
| 1.96E-09 | 2.62E-08 | 3.98E-09 | 3.98E-09 | 2.19E-09 | 3.81E-08 |
| 1.93E-09 | 2.59E-09 | 3.93E-09 | 3.93E-09 | 2.16E-09 | 3.79E-08 |
| 1.91E-09 | 2.56E-08 | 3.88E-09 | 3.88E-09 | 2.13E-09 | 3.74E-08 |
| 1.87E-09 | 2.51E-08 | 3.81E-09 | 3.81E-09 | 2.10E-09 | 3.67E-08 |
| 1.84E-09 | 2.46E-08 | 3.73E-09 | 3.73E-09 | 2.05E-09 | 3.60E-08 |
| 1.79E-09 | 2.40E-09 | 3.65E-09 | 3.65E-09 | 2.00E-09 | 3.51E-08 |
| 1.75E-09 | 2.34E-08 | 3.56E-09 | 3.56E-09 | 1.95E-09 | 3.43E-08 |
| 1.70E-09 | 2.26E-09 | 3.46E-09 | 3.46E-09 | 1.90E-09 | 3.31E-08 |
| 1.85E-09 | 2.22E-08 | 3.36E-09 | 3.36E-09 | 1.85E-09 | 3.24E-08 |
| 1.60E-09 | 2.15E-08 | 3.26E-09 | 3.26E-09 | 1.79E-09 | 3.14E-08 |
| 1.55E-09 | 2.08E-09 | 3.15E-09 | 3.15E-09 | 1.73E-09 | 3.04E-08 |
| 1.50E-09 | 2.01E-08 | 3.04E-09 | 3.04E-09 | 1.67E-09 | 2.91E-08 |
| 1.44E-09 | 1.93E-08 | 2.93E-09 | 2.93E-09 | 1.61E-09 | 2.82E-08 |
| 1.38E-09 | 1.85E-08 | 2.81E-09 | 2.81E-09 | 1.55E-09 | 2.71E-08 |
| 1.32E-09 | 1.78E-08 | 2.69E-09 | 2.69E-09 | 1.48E-09 | 2.60E-08 |
| 1.27E-09 | 1.70E-08 | 2.58E-09 | 2.58E-09 | 1.42E-09 | 2.48E-08 |
| 1.21E-09 | 1.63E-08 | 2.46E-09 | 2.46E-09 | 1.36E-09 | 2.38E-08 |
| 1.16E-09 | 1.56E-08 | 2.36E-09 | 2.36E-09 | 1.30E-09 | 2.27E-08 |
| 1.11E-09 | 1.49E-08 | 2.26E-09 | 2.26E-09 | 1.24E-09 | 2.18E-08 |
| 1.07E-09 | 1.43E-08 | 2.17E-09 | 2.17E-09 | 1.19E-09 | 2.09E-08 |
| 1.02E-09 | 1.37E-08 | 2.08E-09 | 2.08E-09 | 1.14E-09 | 2.00E-08 |
| 9.82E-10 | 1.32E-08 | 2.00E-09 | 2.00E-09 | 1.10E-09 | 1.92E-08 |
| 9.43E-10 | 1.26E-08 | 1.92E-09 | 1.92E-09 | 1.05E-09 | 1.85E-08 |
| 4.23E-10 | 5.67E-09 | 8.59E-10 | 8.59E-10 | 4.72E-10 | 6.28E-09 |
| 4.10E-10 | 5.30E-09 | 8.34E-10 | 8.34E-10 | 4.58E-10 | 8.04E-09 |
| 3.98E-10 | 5.34E-09 | 8.10E-10 | 8.10E-10 | 4.45E-10 | 7.80E-09 |
| 3.87E-10 | 5.18E-09 | 7.86E-10 | 7.86E-10 | 4.32E-10 | 7.58E-09 |
| 3.75E-10 | 5.03E-09 | 7.63E-10 | 7.63E-10 | 4.20E-10 | 7.35E-09 |
| 3.64E-10 | 4.88E-09 | 7.40E-10 | 7.40E-10 | 4.07E-10 | 7.13E-09 |
| 3.53E-10 | 4.74E-09 | 7.18E-10 | 7.18E-10 | 3.95E-10 | 6.92E-09 |
| 3.42E-10 | 4.59E-09 | 6.96E-10 | 6.96E-10 | 3.83E-10 | 6.71E-09 |
| 3.32E-10 | 4.45E-09 | 6.75E-10 | 6.75E-10 | 3.71E-10 | 6.50E-09 |
| 3.21E-10 | 4.31E-09 | 6.53E-10 | 6.53E-10 | 3.59E-10 | 6.30E-09 |
| 3.11E-10 | 4.17E-09 | 6.33E-10 | 6.33E-10 | 3.48E-10 | 6.10E-09 |
| 3.02E-10 | 4.04E-09 | 6.13E-10 | 6.13E-10 | 3.37E-10 | 5.91E-09 |
| 2.92E-10 | 3.92E-09 | 5.94E-10 | 5.94E-10 | 3.27E-10 | 5.72E-09 |
| 2.83E-10 | 3.80E-09 | 5.76E-10 | 5.76E-10 | 3.17E-10 | 5.55E-09 |
| 2.75E-10 | 3.68E-09 | 5.58E-10 | 5.58E-10 | 3.07E-10 | 5.38E-09 |
| 2.67E-10 | 3.58E-09 | 5.42E-10 | 5.42E-10 | 2.98E-10 | 5.23E-09 |
| 2.59E-10 | 3.48E-09 | 5.27E-10 | 5.27E-10 | 2.90E-10 | 5.08E-09 |
| 2.52E-10 | 3.38E-09 | 5.13E-10 | 5.13E-10 | 2.82E-10 | 4.95E-09 |
| 2.46E-10 | 3.30E-09 | 5.00E-10 | 5.00E-10 | 2.75E-10 | 4.82E-09 |
| 2.40E-10 | 3.22E-09 | 4.88E-10 | 4.88E-10 | 2.68E-10 | 4.70E-09 |
| 2.35E-10 | 3.15E-09 | 4.77E-10 | 4.77E-10 | 2.62E-10 | 4.60E-09 |
| 2.30E-10 | 3.08E-09 | 4.67E-10 | 4.67E-10 | 2.57E-10 | 4.50E-09 |
| 2.25E-10 | 3.02E-09 | 4.58E-10 | 4.58E-10 | 2.52E-10 | 4.41E-09 |
| 2.21E-10 | 2.97E-09 | 4.50E-10 | 4.30E-10 | 2.47E-10 | 4.33E-09 |
| 2.17E-10 | 2.92E-09 | 4.42E-10 | 4.42E-10 | 2.43E-10 | 4.26E-09 |
| 2.14E-10 | 2.87E-09 | 4.35E-10 | 4.35E-10 | 2.39E-10 | 4.19E-09 |
| 2.11E-10 | 2.83E-09 | 4.29E-10 | 4.29E-10 | 2.36E-10 | 4.13E-09 |
| 2.06E-10 | 2.79E-09 | 4.22E-10 | 4.22E-10 | 2.32E-10 | 4.07E-09 |
| 2.05E-10 | 2.73E-09 | 4.17E-10 | 4.17E-10 | 2.29E-10 | 4.02E-09 |
| 2.02E-10 | 2.71E-09 | 4.11E-10 | 4.11E-10 | 2.26E-10 | 3.97E-09 |
| 2.00E-10 | 2.68E-09 | 4.06E-10 | 4.06E-10 | 2.23E-10 | 3.91E-09 |
| 1.97E-10 | 2.64E-09 | 4.01E-10 | 4.01E-10 | 2.20E-10 | 3.86E-09 |
| 1.94E-10 | 2.61E-09 | 3.95E-10 | 3.95E-10 | 2.17E-10 | 3.81E-09 |
| 1.92E-10 | 2.57E-09 | 3.90E-10 | 3.90E-10 | 2.14E-10 | 3.76E-09 |
| 3.00E-10 | 4.03E-09 | 6.11E-10 | 6.11E-10 | 3.36E-10 | 5.89E-09 |
| 3.12E-10 | 4.19E-09 | 6.35E-10 | 8.35E-10 | 3.49E-10 | 6.12E-09 |
| 3.25E-10 | 4.35E-09 | 6.60E-10 | 6.60E-10 | 3.63E-10 | 6.38E-09 |
| 3.38E-10 | 4.53E-09 | 6.87E-10 | 6.87E-10 | 3.78E-10 | 6.62E-09 |
| 3.53E-10 | 4.73E-09 | 7.17E-10 | 7.17E-10 | 3.94E-10 | 6.91E-09 |
| 3.68E-10 | 4.94E-09 | 7.48E-10 | 7.48E-10 | 4.11E-10 | 7.21E-09 |
| 3.85E-10 | 5.16E-09 | 7.82E-10 | 7.82E-10 | 4.30E-10 | 7.54E-09 |
| 4.03E-10 | 5.40E-09 | 6.19E-10 | 8.19E-10 | 4.50E-10 | 7.89E-09 |
| 4.22E-10 | 5.66E-09 | 6.56E-10 | 8.58E-10 | 4.72E-10 | 6.27E-09 |
| 4.43E-10 | 5.94E-09 | 9.00E-10 | 9.00E-10 | 4.95E-10 | 6.68E-09 |
| 4.65E-10 | 6.23E-09 | 9.45E-10 | 9.45E-10 | 5.20E-10 | 9.11E-09 |
| 4.88E-10 | 6.55E-09 | 9.93E-10 | 9.93E-10 | 5.46E-10 | 9.57E-09 |
| 5.13E-10 | 6.88E-09 | 1.04E-09 | 1.04E-09 | 5.74E-10 | 1.01E-09 |
| 5.39E-10 | 7.23E-09 | 1.10E-09 | 1.10E-09 | 6.03E-10 | 1.06E-09 |
| 5.67E-10 | 7.60E-09 | 1.15E-09 | 1.15E-09 | 6.34E-10 | 1.11E-08 |
| 5.95E-10 | 7.98E-09 | 1.21E-09 | 1.21E-09 | 6.66E-10 | 1.17E-08 |

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|---|---|---|---|---|---|---|
| 2.41E-10 | 3.22E-09 | 4.01E-10 | 4.01E-10 | 1.99E-10 | 4.46E-09 |
| 2.53E-10 | 3.39E-09 | 4.22E-10 | 4.22E-10 | 2.09E-10 | 4.69E-09 |
| 2.67E-10 | 3.57E-09 | 4.45E-10 | 4.46E-10 | 2.20E-10 | 4.94E-09 |
| 2.82E-10 | 3.76E-09 | 4.69E-10 | 4.69E-10 | 2.32E-10 | 5.21E-09 |
| 2.97E-10 | 3.97E-09 | 4.95E-10 | 4.95E-10 | 2.45E-10 | 5.51E-09 |
| 3.13E-10 | 4.20E-09 | 5.24E-10 | 5.24E-10 | 

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1177 | 258163.94 | 4084226.65 | 6.86E-09 | 9.17E-08 | 1.36E-08 | 1.36E-08 | 7.56E-09 | 1.33E-07 | 1.04E-09 | 1.40E-08 | 2.12E-09 | 2.12E-09 | 1.16E-09 | 2.04E-08 | 5.66E-10 | 7.56E-09 | 9.42E-10 | 9.42E-10 | 4.66E-10 | 1.05E-08 |
| 1176 | 258159.6 | 4084229.65 | 6.33E-09 | 6.72E-08 | 1.29E-08 | 1.29E-08 | 7.20E-09 | 1.27E-07 | 9.91E-10 | 1.33E-08 | 2.02E-09 | 2.02E-09 | 1.11E-09 | 1.94E-08 | 5.38E-10 | 7.19E-09 | 6.97E-10 | 8.97E-10 | 4.44E-10 | 9.97E-09 |
| 1179 | 258135.27 | 4084230.65 | 6.21E-09 | 6.29E-08 | 1.23E-08 | 1.23E-08 | 6.84E-09 | 1.21E-07 | 9.42E-10 | 1.26E-08 | 1.92E-09 | 1.92E-09 | 1.05E-09 | 1.63E-08 | 5.12E-10 | 6.84E-09 | 6.52E-10 | 6.52E-10 | 4.22E-10 | 9.48E-09 |
| 1180 | 258110.94 | 4084231.65 | 5.90E-09 | 7.88E-08 | 1.17E-08 | 1.17E-08 | 6.50E-09 | 1.15E-07 | 6.96E-10 | 1.20E-08 | 1.82E-09 | 1.83E-09 | 1.00E-09 | 1.75E-08 | 4.85E-10 | 6.50E-09 | 8.10E-10 | 6.10E-10 | 4.01E-10 | 9.00E-09 |
| 1161 | 258086.61 | 4084232.65 | 3.61E-09 | 7.49E-08 | 1.11E-08 | 1.11E-08 | 6.18E-09 | 1.09E-07 | 6.51E-10 | 1.14E-08 | 1.73E-09 | 1.73E-09 | 9.32E-10 | 1.67E-08 | 4.82E-10 | 6.18E-09 | 7.70E-10 | 7.70E-10 | 3.61E-10 | 6.38E-09 |
| 1182 | 258062.28 | 4084233.65 | 5.33E-09 | 7.12E-08 | 1.05E-08 | 1.05E-08 | 5.88E-09 | 1.04E-07 | 6.09E-10 | 1.09E-08 | 1.65E-09 | 1.65E-09 | 9.05E-10 | 1.39E-08 | 4.40E-10 | 5.87E-09 | 7.32E-10 | 7.32E-10 | 3.82E-10 | 6.14E-09 |
| 1183 | 258037.94 | 4084234.65 | 5.07E-09 | 6.78E-08 | 1.00E-08 | 1.00E-08 | 5.59E-09 | 9.83E-08 | 7.70E-10 | 1.03E-08 | 1.57E-09 | 1.57E-09 | 8.60E-10 | 1.51E-08 | 4.38E-10 | 5.58E-09 | 6.96E-10 | 6.96E-10 | 3.45E-10 | 7.74E-09 |
| 1184 | 258013.61 | 4084235.65 | 4.83E-09 | 6.45E-08 | 9.54E-09 | 9.54E-09 | 5.32E-09 | 9.37E-08 | 7.33E-10 | 9.82E-09 | 1.49E-09 | 1.49E-09 | 6.19E-10 | 1.44E-08 | 3.98E-10 | 5.32E-09 | 6.63E-10 | 6.63E-10 | 3.26E-10 | 7.37E-09 |
| 1165 | 257989.26 | 4084236.66 | 4.60E-09 | 8.14E-08 | 9.09E-09 | 9.09E-09 | 5.07E-09 | 8.95E-08 | 6.98E-10 | 9.36E-09 | 1.42E-09 | 1.42E-09 | 7.80E-10 | 1.37E-08 | 3.79E-10 | 5.06E-09 | 6.32E-10 | 6.32E-10 | 5.13E-10 | 7.02E-09 |
| 1185 | 257964.95 | 4084237.66 | 4.39E-09 | 5.86E-08 | 8.67E-09 | 6.67E-09 | 4.83E-09 | 8.52E-08 | 6.66E-10 | 6.93E-09 | 1.35E-09 | 1.35E-09 | 7.44E-10 | 1.30E-08 | 3.87E-10 | 4.83E-09 | 6.02E-10 | 6.02E-10 | 2.92E-10 | 6.70E-09 |
| 1167 | 257940.83 | 4084238.66 | 4.19E-09 | 5.60E-08 | 6.28E-09 | 6.28E-09 | 4.82E-09 | 6.13E-08 | 6.36E-10 | 6.53E-09 | 1.29E-09 | 1.29E-09 | 7.11E-10 | 1.25E-08 | 3.45E-10 | 4.61E-09 | 5.75E-10 | 5.75E-10 | 2.65E-10 | 6.39E-09 |
| 1188 | 257916.29 | 4084239.66 | 4.01E-09 | 5.33E-08 | 7.92E-09 | 7.92E-09 | 4.41E-09 | 7.77E-08 | 6.08E-10 | 6.15E-09 | 1.24E-09 | 1.24E-09 | 6.79E-10 | 1.19E-08 | 3.30E-10 | 4.41E-09 | 5.50E-10 | 5.50E-10 | 2.72E-10 | 6.11E-09 |
| 1189 | 257891.95 | 4084240.66 | 3.83E-09 | 5.12E-08 | 7.58E-09 | 7.58E-09 | 4.23E-09 | 7.44E-08 | 3.82E-10 | 7.80E-09 | 1.18E-09 | 1.18E-09 | 6.51E-10 | 1.14E-08 | 3.16E-10 | 4.22E-09 | 5.26E-10 | 5.28E-10 | 2.61E-10 | 3.85E-09 |
| 1190 | 257867.62 | 4084241.66 | 3.68E-09 | 4.91E-08 | 7.27E-09 | 7.27E-09 | 4.05E-09 | 7.14E-08 | 3.58E-10 | 7.48E-09 | 1.15E-09 | 1.13E-09 | 6.24E-10 | 1.09E-08 | 3.03E-10 | 4.05E-09 | 3.05E-10 | 3.05E-10 | 2.50E-10 | 3.61E-09 |
| 1191 | 237845.29 | 4084242.66 | 5.53E-09 | 4.72E-08 | 6.98E-09 | 6.96E-09 | 3.89E-09 | 6.85E-08 | 5.36E-10 | 7.19E-09 | 1.09E-09 | 1.09E-09 | 5.99E-10 | 1.05E-08 | 2.91E-10 | 3.89E-09 | 4.85E-10 | 4.85E-10 | 2.40E-10 | 3.39E-09 |
| 1192 | 257618.96 | 4084243.66 | 3.40E-09 | 4.54E-08 | 6.72E-09 | 6.72E-09 | 3.74E-09 | 6.50E-08 | 5.16E-10 | 6.91E-09 | 1.09E-09 | 1.05E-09 | 5.78E-10 | 1.01E-08 | 2.80E-10 | 3.74E-09 | 4.67E-10 | 4.67E-10 | 2.31E-10 | 5.19E-09 |
| 1193 | 257794.63 | 4084244.88 | 3.27E-09 | 4.37E-08 | 6.47E-09 | 6.47E-09 | 3.61E-09 | 6.35E-08 | 4.97E-10 | 6.66E-09 | 1.01E-09 | 1.01E-09 | 5.55E-10 | 9.75E-09 | 2.70E-10 | 3.60E-09 | 4.49E-10 | 4.49E-10 | 2.22E-10 | 4.99E-09 |
| 1194 | 257770.29 | 4084245.66 | 3.16E-09 | 4.22E-08 | 6.24E-09 | 6.24E-09 | 3.48E-09 | 6.13E-08 | 4.79E-10 | 6.42E-09 | 9.74E-10 | 9.74E-10 | 3.33E-10 | 9.39E-09 | 2.60E-10 | 5.48E-09 | 4.35E-10 | 4.33E-10 | 2.14E-10 | 4.82E-09 |
| 1195 | 257745.96 | 4084246.66 | 3.05E-09 | 4.07E-08 | 6.02E-09 | 6.02E-09 | 3.36E-09 | 3.92E-08 | 4.63E-10 | 6.20E-09 | 9.41E-10 | 9.41E-10 | 5.17E-10 | 9.06E-09 | 2.51E-10 | 3.36E-09 | 4.18E-10 | 4.18E-10 | 2.07E-10 | 4.65E-09 |
| 1196 | 257721.63 | 4084247.66 | 2.95E-09 | 3.93E-08 | 5.83E-09 | 5.83E-09 | 3.25E-09 | 5.72E-08 | 4.47E-10 | 5.99E-09 | 9.09E-10 | 9.09E-10 | 5.00E-10 | 6.78E-09 | 2.43E-10 | 3.24E-09 | 4.04E-10 | 4.04E-10 | 2.00E-10 | 4.50E-09 |
| 1197 | 257697.3 | 4084248.66 | 2.85E-09 | 3.81E-08 | 5.63E-09 | 5.63E-09 | 3.14E-09 | 5.53E-08 | 4.33E-10 | 5.80E-09 | 8.79E-10 | 8.79E-10 | 4.83E-10 | 6.47E-09 | 2.35E-10 | 3.14E-09 | 5.91E-10 | 5.91E-10 | 1.94E-10 | 4.35E-09 |
| 1198 | 257672.97 | 4084249.66 | 2.76E-09 | 3.69E-08 | 5.46E-09 | 5.46E-09 | 3.04E-09 | 5.36E-08 | 4.19E-10 | 5.62E-09 | 8.52E-10 | 8.52E-10 | 4.68E-10 | 6.21E-09 | 2.28E-10 | 3.04E-09 | 3.79E-10 | 5.79E-10 | 1.88E-10 | 4.21E-09 |
| 1199 | 257648.64 | 4084250.66 | 2.68E-09 | 3.57E-08 | 5.29E-09 | 5.29E-09 | 2.95E-09 | 5.20E-08 | 4.06E-10 | 5.45E-09 | 8.26E-10 | 8.26E-10 | 4.54E-10 | 7.96E-09 | 2.21E-10 | 2.95E-09 | 5.67E-10 | 3.87E-10 | 1.82E-10 | 4.08E-09 |
| 1200 | 257624.3 | 4084251.66 | 2.60E-09 | 3.47E-08 | 5.13E-09 | 5.13E-09 | 2.86E-09 | 5.04E-08 | 3.94E-10 | 5.29E-09 | 8.01E-10 | 8.01E-10 | 4.41E-10 | 7.72E-09 | 2.14E-10 | 2.86E-09 | 3.57E-10 | 3.57E-10 | 1.77E-10 | 3.96E-09 |
| 1201 | 257599.97 | 4084252.66 | 2.52E-09 | 3.37E-08 | 4.98E-09 | 4.98E-09 | 2.78E-09 | 4.89E-08 | 5.83E-10 | 5.13E-09 | 7.78E-10 | 7.78E-10 | 4.26E-10 | 7.50E-09 | 2.08E-10 | 2.78E-09 | 3.46E-10 | 5.46E-10 | 1.71E-10 | 3.83E-09 |
| 1202 | 257575.64 | 4084253.66 | 2.45E-09 | 3.27E-08 | 4.84E-09 | 4.84E-09 | 2.70E-09 | 4.76E-08 | 3.72E-10 | 4.99E-09 | 7.56E-10 | 7.56E-10 | 4.16E-10 | 7.29E-09 | 2.02E-10 | 2.70E-09 | 3.36E-10 | 3.36E-10 | 1.67E-10 | 3.74E-09 |
| 1203 | 257551.31 | 4084254.66 | 2.38E-09 | 3.18E-08 | 4.71E-09 | 4.71E-09 | 2.63E-09 | 4.63E-08 | 3.62E-10 | 4.85E-09 | 7.35E-10 | 7.35E-10 | 4.04E-10 | 7.09E-09 | 1.96E-10 | 2.62E-09 | 5.27E-10 | 3.27E-10 | 1.82E-10 | 3.64E-09 |
| 1204 | 257526.98 | 4084255.66 | 2.32E-09 | 3.10E-08 | 4.59E-09 | 4.59E-09 | 2.56E-09 | 4.50E-08 | 3.52E-10 | 4.72E-09 | 7.16E-10 | 7.16E-10 | 3.94E-10 | 6.90E-09 | 1.91E-10 | 2.55E-09 | 5.19E-10 | 5.19E-10 | 1.58E-10 | 3.54E-09 |
| 1205 | 258344.15 | 4084031.13 | 4.92E-09 | 6.57E-08 | 9.72E-09 | 9.72E-09 | 5.42E-09 | 9.55E-08 | 7.46E-10 | 1.00E-08 | 1.52E-09 | 1.52E-09 | 6.34E-10 | 1.46E-08 | 4.05E-10 | 5.41E-09 | 6.75E-10 | 6.75E-10 | 3.34E-10 | 7.50E-09 |
| 1206 | 258366.58 | 4084039.43 | 5.24E-09 | 6.99E-08 | 1.03E-08 | 1.03E-08 | 5.77E-09 | 1.02E-07 | 7.95E-10 | 1.07E-08 | 1.62E-09 | 1.62E-09 | 6.88E-10 | 1.56E-08 | 4.32E-10 | 5.77E-09 | 7.19E-10 | 7.19E-10 | 3.56E-10 | 7.99E-09 |
| 1207 | 258389.02 | 4084047.74 | 5.58E-09 | 7.45E-08 | 1.10E-08 | 1.10E-08 | 6.15E-09 | 1.08E-07 | 8.47E-10 | 1.14E-08 | 1.72E-09 | 1.72E-09 | 9.46E-10 | 1.66E-08 | 4.60E-10 | 6.14E-09 | 7.66E-10 | 7.66E-10 | 3.79E-10 | 8.51E-09 |
| 1208 | 258411.45 | 4084056.04 | 5.94E-09 | 7.94E-08 | 1.17E-08 | 1.17E-08 | 6.53E-09 | 1.15E-07 | 9.02E-10 | 1.21E-08 | 1.83E-09 | 1.63E-09 | 1.01E-09 | 1.72E-08 | 4.90E-10 | 6.54E-09 | 8.18E-10 | 6.16E-10 | 4.04E-10 | 9.07E-09 |
| 1209 | 259433.89 | 4084064.35 | 6.33E-09 | 6.45E-08 | 1.25E-08 | 1.25E-08 | 6.97E-09 | 1.23E-07 | 9.60E-10 | 1.29E-08 | 1.95E-09 | 1.93E-09 | 1.07E-09 | 1.85E-08 | 5.22E-10 | 6.97E-09 | 8.69E-10 | 6.69E-10 | 4.30E-10 | 9.66E-09 |
| 1210 | 256456.32 | 4084072.66 | 6.73E-09 | 9.00E-08 | 1.33E-08 | 1.33E-08 | 7.42E-09 | 1.31E-07 | 1.02E-09 | 1.37E-08 | 2.08E-09 | 2.08E-09 | 1.14E-09 | 2.00E-08 | 5.53E-10 | 7.41E-09 | 9.26E-10 | 9.24E-10 | 4.38E-10 | 1.03E-08 |
| 1211 | 256478.76 | 4084080.96 | 7.16E-09 | 9.56E-08 | 1.41E-08 | 1.41E-08 | 7.89E-09 | 1.39E-07 | 1.09E-09 | 1.46E-08 | 2.21E-09 | 2.21E-09 | 1.21E-09 | 2.13E-08 | 5.90E-10 | 7.88E-09 | 9.83E-10 | 9.83E-10 | 4.86E-10 | 1.09E-08 |
| 1212 | 258501.19 | 4084089.27 | 7.60E-09 | 1.02E-07 | 1.50E-08 | 1.50E-08 | 8.37E-09 | 1.48E-07 | 1.15E-09 | 1.55E-08 | 2.35E-09 | 2.35E-09 | 1.29E-09 | 2.26E-08 | 6.26E-10 | 6.37E-09 | 1.04E-09 | 1.04E-09 | 5.16E-10 | 1.16E-08 |
| 1213 | 258523.63 | 4084097.58 | 8.06E-09 | 1.08E-07 | 1.59E-08 | 1.59E-08 | 8.88E-09 | 1.56E-07 | 1.22E-09 | 1.64E-08 | 2.49E-09 | 2.49E-09 | 1.37E-09 | 2.40E-08 | 6.94E-10 | 6.67E-09 | 1.11E-09 | 1.11E-09 | 5.47E-10 | 1.23E-08 |
| 1214 | 236546.06 | 4084105.88 | 8.53E-09 | 1.14E-07 | 1.69E-08 | 1.69E-08 | 9.39E-09 | 1.66E-07 | 1.29E-09 | 1.74E-08 | 2.63E-09 | 2.63E-09 | 1.45E-09 | 2.54E-08 | 7.03E-10 | 9.39E-09 | 1.17E-09 | 1.17E-09 | 5.79E-10 | 1.30E-08 |
| 1213 | 238568.5 | 4084114.19 | 9.00E-09 | 1.20E-07 | 1.76E-08 | 1.78E-08 | 9.92E-09 | 1.75E-07 | 1.37E-09 | 1.83E-08 | 2.76E-09 | 2.78E-09 | 1.53E-09 | 2.68E-08 | 7.42E-10 | 9.91E-09 | 1.24E-09 | 1.24E-09 | 6.12E-10 | 1.37E-08 |
| 1216 | 258590.93 | 4084122.3 | 9.49E-09 | 1.27E-07 | 1.85E-08 | 1.88E-08 | 1.05E-08 | 1.84E-07 | 1.44E-09 | 1.93E-08 | 2.93E-09 | 2.93E-09 | 1.61E-09 | 2.82E-08 | 7.82E-10 | 1.05E-08 | 1.30E-09 | 1.30E-09 | 6.45E-10 | 1.45E-08 |
| 1217 | 258615.37 | 4084130.8 | 9.98E-09 | 1.33E-07 | 1.97E-08 | 1.97E-08 | 1.10E-08 | 1.94E-07 | 1.51E-09 | 2.03E-08 | 5.08E-09 | 3.08E-09 | 1.69E-09 | 2.97E-08 | 8.23E-10 | 1.10E-08 | 1.37E-09 | 1.37E-09 | 6.78E-10 | 1.52E-08 |
| 1216 | 258633.8 | 4084139.11 | 1.05E-08 | 1.40E-07 | 2.07E-08 | 2.07E-08 | 1.15E-08 | 2.03E-07 | 1.39E-09 | 2.13E-08 | 3.23E-09 | 3.23E-09 | 1.78E-09 | 3.11E-08 | 8.63E-10 | 1.15E-08 | 1.44E-09 | 1.44E-09 | 7.12E-10 | 1.60E-08 |
| 1219 | 258658.24 | 4084147.41 | 1.10E-08 | 1.46E-07 | 2.17E-08 | 2.17E-08 | 1.21E-08 | 2.13E-07 | 1.66E-09 | 2.23E-08 | 3.38E-09 | 3.38E-09 | 1.66E-09 | 3.26E-08 | 9.03E-10 | 1.21E-08 | 1.50E-09 | 1.50E-09 | 7.45E-10 | 1.67E-08 |
| 1220 | 236680.67 | 4084155.72 | 1.14E-08 | 1.53E-07 | 2.26E-08 | 2.26E-08 | 1.26E-08 | 2.22E-07 | 1.74E-09 | 2.33E-08 | 3.33E-09 | 3.53E-09 | 1.94E-09 | 3.40E-08 | 9.43E-10 | 1.26E-08 | 1.57E-09 | 1.57E-09 | 7.77E-10 | 1.75E-08 |
| 1221 | 256703.11 | 4084164.03 | 1.19E-08 | 1.59E-07 | 2.35E-08 | 2.33E-08 | 1.31E-08 | 2.51E-07 | 1.81E-09 | 2.42E-08 | 3.68E-09 | 3.68E-09 | 2.02E-09 | 3.54E-08 | 9.82E-10 | 1.31E-08 | 1.64E-09 | 1.64E-09 | 8.10E-10 | 1.82E-08 |
| 1222 | 258725.54 | 4084172.33 | 1.24E-08 | 1.65E-07 | 2.45E-08 | 2.45E-08 | 1.36E-08 | 2.40E-07 | 1.88E-09 | 2.52E-08 | 3.82E-09 | 3.82E-09 | 2.10E-09 | 3.68E-08 | 1.02E-09 | 1.36E-08 | 1.70E-09 | 1.70E-09 | 8.41E-10 | 1.89E-08 |
| 1223 | 258747.98 | 4084180.64 | 1.26E-08 | 1.71E-07 | 2.53E-08 | 2.55E-08 | 1.41E-08 | 2.49E-07 | 1.93E-09 | 2.61E-08 | 5.96E-09 | 3.96E-09 | 2.17E-09 | 3.81E-08 | 1.06E-09 | 1.41E-08 | 1.76E-09 | 1.76E-09 | 8.71E-10 | 1.96E-08 |
| 1224 | 258770.41 | 4084188.95 | 1.32E-08 | 1.77E-07 | 2.62E-08 | 2.83E-08 | 1.46E-08 | 2.57E-07 | 2.01E-09 | 2.69E-08 | 4.09E-09 | 4.09E-09 | 2.25E-09 | 3.94E-08 | 1.09E-09 | 1.46E-08 | 1.82E-09 | 1.82E-09 | 9.00E-10 | 2.02E-08 |
| 1223 | 256792.85 | 4084197.25 | 1.36E-08 | 1.82E-07 | 2.70E-08 | 2.70E-08 | 1.50E-08 | 2.65E-07 | 2.07E-09 | 2.78E-08 | 4.21E-09 | 4.21E-09 | 2.31E-09 | 4.06E-08 | 1.12E-09 | 1.50E-08 | 1.87E-09 | 1.87E-09 | 9.27E-10 | 2.08E-08 |
| 1226 | 238815.26 | 4084205.56 | 1.40E-08 | 1.87E-07 | 2.77E-08 | 2.72E-08 | 1.54E-08 | 2.72E-07 | 2.13E-09 | 2.85E-08 | 4.32E-09 | 4.32E-09 | 2.38E-09 | 4.17E-08 | 1.16E-09 | 1.54E-08 | 1.92E-09 | 1.92E-09 | 9.52E-10 | 2.14E-08 |
| 1227 | 258837.72 | 4084213.87 | 1.44E-08 | 1.92E-07 | 2.84E-08 | 2.84E-08 | 1.58E-08 | 2.79E-07 | 2.18E-09 | 2.92E-08 | 4.43E-09 | 4.43E-09 | 2.44E-09 | 4.27E-08 | 1.18E-09 | 1.58E-08 | 1.97E-09 | 1.97E-09 | 9.76E-10 | 2.19E-08 |
| 1228 | 258860.15 | 4084222.17 | 1.47E-08 | 1.96E-07 | 2.90E-08 | 2.90E-08 | 1.61E-08 | 2.85E-07 | 2.22E-09 | 2.98E-08 | 4.52E-09 | 4.52E-09 | 2.49E-09 | 4.36E-08 | 1.21E-09 | 1.61E-08 | 2.01E-09 | 2.01E-09 | 9.96E-10 | 2.24E-08 |
| 1229 | 258882.59 | 4084230.48 | 1.49E-08 | 1.99E-07 | 2.95E-08 | 2.95E-08 | 1.64E-08 | 2.89E-07 | 2.26E-09 | 3.03E-08 | 4.60E-09 | 4.60E-09 | 2.53E-09 | 4.43E-08 | 1.23E-09 | 1.64E-08 | 2.05E-09 | 2.06E-09 | 1.01E-09 | 2.27E-08 |
| 1230 | 258905.02 | 4084238.76 | 1.51E-08 | 2.02E-07 | 2.99E-08 | 2.99E-08 | 1.67E-08 | 2.94E-07 | 2.30E-09 | 3.08E-08 | 4.67E-09 | 4.67E-09 | 2.57E-09 | 4.50E-08 | 1.25E-09 | 1.67E-08 | 2.08E-09 | 2.08E-09 | 1.03E-09 | 2.31E-08 |
| 1231 | 258927.46 | 4084247.09 | 1.53E-08 | 2.04E-07 | 3.02E-08 | 5.02E-08 | 1.68E-08 | 2.97E-07 | 2.32E-09 | 3.11E-08 | 4.72E-09 | 4.72E-09 | 2.59E-09 | 4.55E-08 | 1.26E-09 | 1.68E-08 | 2.10E-09 | 2.10E-09 | 1.04E-09 | 2.33E-08 |
| 1232 | 258949.89 | 4084255.4 | 1.54E-08 | 2.06E-07 | 3.04E-08 | 3.04E-08 | 1.70E-08 | 2.99E-07 | 2.34E-09 | 3.13E-08 | 4.73E-09 | 4.75E-09 | 2.81E-09 | 4.58E-08 | 1.27E-09 | 1.70E-08 | 2.11E-09 | 2.11E-09 | 1.05E-09 | 2.35E-08 |
| 1233 | 258982.19 | 4084265.5 | 1.59E-08 | 2.13E-07 | 3.15E-08 | 5.15E-08 | 1.75E-08 | 3.09E-07 | 2.42E-09 | 5.24E-08 | 4.91E-09 | 4.91E-09 | 2.70E-09 | 4.74E-08 | 1.31E-09 | 1.75E-08 | 2.19E-09 | 2.19E-09 | 1.08E-09 | 2.43E-08 |
| 1234 | 258992.05 | 4084307.3 | 1.63E-08 | 2.18E-07 | 3.23E-08 | 3.25E-08 | 1.80E-08 | 3.17E-07 | 2.48E-09 | 3.33E-08 | 3.04E-09 | 5.04E-09 | 2.77E-09 | 4.86E-08 | 1.35E-09 | 1.80E-08 | 2.24E-09 | 2.24E-09 | 1.11E-09 | 2.49E-08 |
| 1233 | 259001.91 | 4084379.09 | 1.87E-08 | 2.23E-07 | 3.30E-08 | 3.30E-03 | 1.84E-08 | 3.24E-07 | 2.55E-09 | 3.40E-08 | 5.15E-09 | 5.15E-09 | 2.83E-09 | 4.96E-08 | 1.38E-09 | 1.84E-08 | 2.29E-09 | 2.29E-09 | 1.15E-09 | 2.53E-08 |
| 1236 | 259011.72 | 4084350.89 | 1.70E-08 | 2.27E-07 | 3.36E-08 | 5.36E-08 | 1.87E-08 | 3.30E-07 | 2.58E-09 | 3.48E-08 | 5.24E-09 | 5.24E-09 | 2.88E-09 | 5.05E-08 | 1.40E-09 | 1.67E-08 | 2.33E-09 | 2.33E-09 | 1.13E-09 | 2.59E-08 |
| 1257 | 239021.63 | 4084272.69 | 1.72E-08 | 2.30E-07 | 3.40E-08 | 3.40E-08 | 1.90E-08 | 3.34E-07 | 2.81E-09 | 3.50E-08 | 3.31E-09 | 3.31E-09 | 2.92E-09 | 5.12E-08 | 1.42E-09 | 1.90E-08 | 2.36E-09 | 2.38E-09 | 1.17E-09 | 2.63E-08 |
| 1238 | 239031.5 | 4084394.48 | 1.74E-08 | 2.32E-07 | 3.43E-08 | 3.43E-08 | 1.91E-08 | 3.37E-07 | 2.64E-09 | 3.53E-08 | 5.36E-09 | 3.36E-09 | 2.95E-09 | 5.16E-08 | 1.43E-09 | 1.91E-08 | 2.38E-09 | 2.38E-09 | 1.18E-09 | 2.65E-08 |
| 1239 | 259041.36 | 4084416.26 | 1.74E-08 | 2.33E-07 | 3.43E-08 | 3.45E-08 | 1.92E-08 | 3.39E-07 | 2.63E-09 | 3.53E-08 | 3.38E-09 | 3.38E-09 | 2.96E-09 | 5.19E-08 | 1.44E-09 | 1.92E-08 | 2.40E-09 | 2.40E-09 | 1.19E-09 | 2.66E-08 |
| 1240 | 259051.22 | 4084438.08 | 1.74E-08 | 2.33E-07 | 3.43E-08 | 3.43E-08 | 1.91E-08 | 3.39E-07 | 2.65E-09 | 3.53E-08 | 5.38E-09 | 5.38E-09 | 2.96E-09 | 5.19E-08 | 1.44E-09 | 1.92E-08 | 2.40E-09 | 2.40E-09 | 1.19E-09 | 2.66E-08 |
| 1241 | 259061.08 | 4084459.87 | 1.74E-08 | 2.32E-07 | 3.43E-08 | 3.43E-08 | 1.91E-08 | 3.37E-07 | 2.64E-09 | 3.53E-08 | 5.36E-09 | 5.36E-09 | 2.95E-09 | 5.16E-08 | 1.43E-09 | 1.91E-08 | 2.38E-09 | 2.38E-09 | 1.18E-09 | 2.65E-08 |
| 1242 | 259070.94 | 4084481.67 | 1.72E-08 | 2.30E-07 | 3.40E-08 | 3.40E-08 | 1.90E-08 | 3.34E-07 | 2.61E-09 | 3.50E-08 | 5.31E-09 | 5.31E-09 | 2.92E-09 | 5.12E-08 | 1.42E-09 | 1.90E-08 | 2.36E-09 | 2.36E-09 | 1.17E-09 | 2.63E-08 |
| 1243 | 259080.8 | 4084503.47 | 1.70E-08 | 2.27E-07 | 3.36E-08 | 3.36E-08 | 1.87E-08 | 3.30E-07 | 2.58E-09 | 3.46E-08 | 5.24E-09 | 5.24E-09 | 2.88E-09 | 5.05E-08 | 1.40E-09 | 1.87E-08 | 2.33E-09 | 2.33E-09 | 1.15E-09 | 2.59E-08 |
| 1244 | 259090.66 | 4084525.26 | 1.67E-08 | 2.23E-07 | 3.30E-08 | 5.30E-08 | 1.84E-08 | 3.24E-07 | 2.53E-09 | 3.40E-08 | 5.15E-09 | 5.15E-09 | 2.85E-09 | 4.96E-08 | 1.38E-09 | 1.94E-08 | 2.29E-09 | 2.29E-09 | 1.15E-09 | 2.55E-08 |
| 1245 | 259100.52 | 4084547.08 | 1.63E-08 | 2.18E-07 | 3.23E-08 | 3.23E-08 | 1.80E-08 | 3.17E-07 | 2.48E-09 | 3.33E-08 | 5.04E-09 | 5.04E-09 | 2.77E-09 | 4.86E-08 | 1.35E-09 | 1.80E-08 | 2.24E-09 | 2.24E-09 | 1.11E-09 | 2.49E-08 |
| 1246 | 259110.36 | 4084568.86 | 1.59E-08 | 2.13E-07 | 3.13E-08 | 3.15E-08 | 1.76E-08 | 3.09E-07 | 2.42E-09 | 3.24E-08 | 4.92E-09 | 4.92E-09 | 2.70E-09 | 4.74E-08 | 1.31E-09 | 1.75E-08 | 2.19E-09 | 2.19E-09 | 1.08E-09 | 2.43E-08 |
| 1247 | 259120.24 | 4084590.65 | 1.55E-08 | 2.07E-07 | 3.06E-08 | 3.06E-08 | 1.71E-08 | 3.00E-07 | 2.35E-09 | 3.15E-08 | 4.78E-09 | 4.78E-09 | 2.83E-09 | 4.60E-08 | 1.28E-09 | 1.70E-08 | 2.13E-09 | 2.13E-09 | 1.05E-09 | 2.36E-08 |
| 1248 | 259130.1 | 4084612.45 | 1.50E-08 | 2.00E-07 | 2.96E-08 | 2.96E-08 | 1.65E-08 | 2.91E-07 | 2.27E-09 | 3.05E-08 | 4.83E-09 | 4.62E-09 | 2.34E-09 | 4.46E-08 | 1.24E-09 | 1.63E-08 | 2.06E-09 | 2.06E-09 | 1.02E-09 | 2.29E-08 |
| 1249 | 259139.97 | 4084634.25 | 1.45E-08 | 1.93E-07 | 2.86E-08 | 2.86E-08 | 1.39E-08 | 2.61E-07 | 2.20E-09 | 2.94E-08 | 4.48E-09 | 4.46E-09 | 2.45E-09 | 4.30E-08 | 1.19E-09 | 1.59E-08 | 1.99E-09 | 1.99E-09 | 9.63E-10 | 2.21E-08 |
| 1250 | 259149.83 | 4084656.04 | 1.39E-08 | 1.86E-07 | 2.73E-08 | 2.75E-08 | 1.53E-08 | 2.70E-07 | 2.11E-09 | 2.83E-08 | 4.29E-09 | 4.29E-09 | 2.36E-09 | 4.14E-08 | 1.15E-09 | 1.53E-08 | 1.91E-09 | 1.91E-09 | 9.48E-10 | 2.12E-08 |
| 1251 | 259159.69 | 4084677.64 | 1.34E-08 | 1.79E-07 | 2.64E-08 | 2.64E-08 | 1.47E-08 | 2.60E-07 | 2.03E-09 | 2.72E-08 | 4.13E-09 | 4.13E-09 | 2.27E-09 | 5.98E-08 | 1.10E-09 | 1.47E-08 | 1.64E-09 | 1.64E-09 | 9.09E-10 | 2.04E-08 |
| 1252 | 259169.55 | 4084699.64 | 1.28E-08 | 1.71E-07 | 2.53E-08 | 2.53E-08 | 1.41E-08 | 2.48E-07 | 1.94E-09 | 2.60E-08 | 3.95E-09 | 3.95E-09 | 2.17E-09 | 3.61E-08 | 1.05E-09 | 1.41E-08 | 1.78E-09 | 1.78E-09 | 6.70E-10 | 1.95E-08 |
| 1253 | 259179.41 | 4084721.43 | 1.22E-08 | 1.63E-07 | 2.41E-08 | 2.41E-08 | 1.34E-08 | 2.37E-07 | 1.85E-09 | 2.48E-08 | 5.76E-09 | 3.76E-09 | 2.07E-09 | 3.63E-08 | 1.00E-09 | 1.34E-08 | 1.67E-09 | 1.67E-09 | 8.28E-10 | 1.86E-08 |
| 1254 | 259189.27 | 4084743.23 | 1.16E-08 | 1.38E-07 | 2.29E-08 | 2.29E-08 | 1.28E-08 | 2.23E-07 | 1.76E-08 | 2.36E-08 | 3.58E-09 | 3.58E-09 | 1.97E-09 | 3.45E-08 | 9.57E-10 | 1.26E-08 | 1.59E-09 | 1.59E-09 | 7.89E-10 | 1.77E-08 |
| 1255 | 259199.13 | 4084765.03 | 1.10E-08 | 1.46E-07 | 2.16E-08 | 2.18E-08 | 1.22E-08 | 2.14E-07 | 1.68E-09 | 2.25E-08 | 3.41E-09 | 3.41E-09 | 1.67E-09 | 3.26E-08 | 9.11E-10 | 1.22E-08 | 1.52E-09 | 1.52E-09 | 7.51E-10 | 1.69E-08 |
| 1258 | 259208.99 | 4084786.82 | 1.05E-08 | 1.40E-07 | 2.07E-08 | 2.07E-08 | 1.15E-08 | 2.03E-07 | 1.59E-09 | 2.13E-08 | 3.23E-09 | 3.23E-09 | 1.78E-09 | 5.11E-08 | 6.63E-10 | 1.13E-08 | 1.44E-09 | 1.44E-09 | 7.11E-10 | 1.60E-06 |
| 1257 | 259216.65 | 4084808.62 | 9.94E-09 | 1.33E-07 | 1.96E-08 | 1.96E-08 | 1.09E-08 | 1.93E-07 | 1.51E-09 | 2.02E-08 | 3.07E-09 | 3.07E-09 | 1.69E-09 | 2.95E-08 | 8.19E-10 | 1.09E-08 | 1.36E-09 | 1.36E-09 | 6.75E-10 | 1.52E-08 |
| 1258 | 259226.71 | 4084830.42 | 9.44E-09 | 1.26E-07 | 1.87E-08 | 1.87E-08 | 1.04E-08 | 1.83E-07 | 1.43E-09 | 1.92E-08 | 2.91E-09 | 2.91E-09 | 1.60E-09 | 2.81E-08 | 7.78E-10 | 1.04E-08 | 1.30E-09 | 1.30E-09 | 6.41E-10 | 1.44E-08 |
| 1259 | 259236.58 | 4084852.21 | 8.97E-09 | 1.20E-07 | 1.72E-08 | 1.77E-08 | 9.89E-09 | 1.74E-07 | 1.36E-09 | 1.83E-08 | 2.77E-09 | 2.77E-09 | 1.52E-09 | 2.67E-08 | 7.40E-10 | 9.88E-09 | 1.23E-09 | 1.23E-09 | 6.10E-10 | 1.37E-08 |
| 1260 | 259248.44 | 4084874.01 | 8.53E-09 | 1.14E-07 | 1.69E-08 | 1.69E-08 | 9.40E-09 | 1.66E-07 | 1.30E-09 | 1.74E-08 | 2.83E-09 | 2.63E-09 | 1.45E-09 | 2.54E-08 | 7.03E-10 | 9.40E-09 | 1.17E-09 | 1.17E-09 | 5.80E-10 | 1.30E-08 |
| 1261 | 258321.71 | 4084022.82 | 4.82E-09 | 6.17E-08 | 9.15E-09 | 9.13E-09 | 5.09E-09 | 8.97E-08 | 7.01E-10 | 9.40E-09 | 1.43E-09 | 1.43E-09 | 7.84E-10 | 1.37E-08 | 3.81E-10 | 5.09E-09 | 6.34E-10 | 6.34E-10 | 3.14E-10 | 7.05E-09 |
| 1262 | 258297.38 | 4084023.82 | 4.44E-09 | 5.94E-08 | 8.78E-09 | 8.78E-09 | 4.90E-09 | 8.63E-08 | 6.74E-10 | 9.04E-09 | 1.37E-09 | 1.37E-09 | 7.54E-10 | 1.32E-08 | 3.66E-10 | 4.89E-09 | 6.10E-10 | 6.10E-10 | 3.02E-10 | 6.78E-09 |
| 1263 | 258273.03 | 4084024.82 | 4.28E-09 | 5.71E-08 | 8.45E-09 | 

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1059 | 258402.52 | 4084347.92 | 1.62E-08 | 2.16E-07 | 3.70E-08 | 3.70E-08 | 1.78E-08 | 3.14E-07 | 2.46E-09 | 3.29E-08 | 3.00E-09 | 5.00E-09 | 2.75E-09 | 4.61E-08 | 1.33E-09 | 1.76E-08 | 2.22E-09 | 2.22E-09 | 1.10E-09 | 2.47E-08 |
| 1060 | 258425.35 | 4084356.37 | 1.72E-08 | 2.30E-07 | 3.40E-08 | 3.40E-08 | 1.90E-08 | 3.34E-07 | 2.61E-09 | 3.50E-08 | 5.31E-09 | 5.31E-09 | 2.92E-09 | 3.12E-08 | 1.42E-09 | 1.89E-08 | 2.36E-09 | 2.36E-09 | 1.17E-09 | 2.63E-08 |
| 1061 | 258446.18 | 4084364.83 | 1.62E-08 | 2.44E-07 | 3.60E-08 | 3.80E-08 | 2.01E-08 | 3.54E-07 | 2.77E-09 | 3.71E-08 | 5.63E-09 | 5.63E-09 | 3.09E-09 | 3.42E-08 | 1.50E-09 | 2.01E-08 | 2.50E-09 | 2.50E-09 | 1.24E-09 | 2.78E-08 |
| 1062 | 258471.01 | 4084373.28 | 1.93E-08 | 2.57E-07 | 3.81E-08 | 3.81E-08 | 2.12E-08 | 3.74E-07 | 2.92E-09 | 3.92E-08 | 5.94E-09 | 5.94E-09 | 3.27E-09 | 5.73E-08 | 1.59E-09 | 2.12E-08 | 2.64E-09 | 2.64E-09 | 1.31E-09 | 2.94E-08 |
| 1063 | 258493.64 | 4084381.73 | 2.03E-08 | 2.71E-07 | 4.01E-08 | 4.01E-08 | 2.23E-08 | 3.93E-07 | 3.08E-09 | 4.12E-08 | 6.25E-09 | 6.25E-09 | 3.44E-09 | 6.03E-08 | 1.67E-09 | 2.23E-08 | 2.78E-09 | 2.76E-09 | 1.38E-09 | 3.09E-08 |
| 1064 | 258516.66 | 4084390.16 | 2.13E-08 | 2.84E-07 | 4.20E-08 | 4.20E-08 | 2.34E-08 | 4.13E-07 | 3.23E-09 | 4.33E-08 | 6.56E-09 | 6.56E-09 | 3.61E-09 | 6.32E-08 | 1.75E-09 | 2.34E-08 | 2.92E-09 | 2.92E-09 | 1.44E-09 | 3.24E-08 |
| 1065 | 258539.49 | 4084398.63 | 2.22E-08 | 2.97E-07 | 4.39E-08 | 4.39E-08 | 2.45E-08 | 4.32E-07 | 3.37E-09 | 4.52E-08 | 6.86E-09 | 6.86E-09 | 3.77E-09 | 6.61E-08 | 1.83E-09 | 2.45E-08 | 3.05E-09 | 3.05E-09 | 1.51E-09 | 3.39E-08 |
| 1066 | 258562.32 | 4084407.09 | 2.32E-08 | 3.09E-07 | 4.58E-08 | 4.58E-08 | 2.55E-08 | 4.50E-07 | 3.52E-09 | 4.71E-08 | 7.15E-09 | 7.15E-09 | 3.93E-09 | 6.89E-08 | 1.91E-09 | 2.55E-08 | 3.16E-09 | 3.16E-09 | 1.57E-09 | 3.53E-08 |
| 1067 | 258565.13 | 4084415.54 | 2.40E-08 | 5.21E-07 | 4.75E-08 | 4.75E-08 | 2.65E-08 | 4.67E-07 | 3.65E-09 | 4.89E-08 | 7.42E-09 | 7.42E-09 | 4.08E-09 | 7.15E-08 | 1.98E-09 | 2.65E-08 | 3.30E-09 | 3.30E-09 | 1.63E-09 | 3.67E-08 |
| 1068 | 258607.96 | 4084423.99 | 2.49E-08 | 5.32E-07 | 4.91E-08 | 4.91E-08 | 2.74E-08 | 4.82E-07 | 3.77E-09 | 5.06E-08 | 7.67E-09 | 7.67E-09 | 4.22E-09 | 7.39E-08 | 2.05E-09 | 2.74E-08 | 3.41E-09 | 3.41E-09 | 1.69E-09 | 3.79E-08 |
| 1069 | 258630.81 | 4084432.44 | 2.56E-08 | 3.42E-07 | 5.06E-08 | 5.06E-08 | 2.82E-08 | 4.97E-07 | 3.88E-09 | 5.21E-08 | 7.89E-09 | 7.89E-09 | 4.34E-09 | 7.61E-08 | 2.11E-09 | 2.82E-08 | 3.51E-09 | 3.51E-09 | 1.74E-09 | 3.90E-08 |
| 1070 | 258653.64 | 4084440.9 | 2.62E-08 | 3.50E-07 | 5.18E-08 | 5.18E-08 | 2.89E-08 | 5.09E-07 | 3.98E-09 | 5.34E-08 | 6.09E-09 | 8.09E-09 | 4.45E-09 | 7.80E-08 | 2.16E-09 | 2.89E-08 | 3.60E-09 | 3.60E-09 | 1.78E-09 | 4.00E-08 |
| 1071 | 258676.47 | 4084449.35 | 2.68E-08 | 3.38E-07 | 5.29E-08 | 5.29E-08 | 2.95E-08 | 5.20E-07 | 4.06E-09 | 5.45E-08 | 8.26E-09 | 8.26E-09 | 4.54E-09 | 7.96E-08 | 2.21E-09 | 2.95E-08 | 3.67E-09 | 3.67E-09 | 1.82E-09 | 4.08E-08 |
| 1077 | 258699.29 | 4084457.8 | 2.72E-08 | 3.63E-07 | 5.37E-08 | 5.37E-08 | 2.99E-08 | 5.26E-07 | 4.12E-09 | 5.53E-08 | 8.39E-09 | 8.39E-09 | 4.61E-09 | 8.08E-08 | 2.24E-09 | 2.99E-08 | 3.73E-09 | 3.73E-09 | 1.85E-09 | 4.15E-08 |
| 1073 | 258722.12 | 4084466.25 | 2.74E-08 | 3.66E-07 | 5.42E-08 | 5.42E-08 | 3.02E-08 | 5.32E-07 | 4.16E-09 | 5.58E-08 | 8.46E-09 | 8.46E-09 | 4.65E-09 | 8.15E-08 | 2.26E-09 | 3.02E-08 | 3.76E-09 | 3.76E-09 | 1.86E-09 | 4.16E-08 |
| 1074 | 258744.95 | 4084474.7 | 2.75E-08 | 3.67E-07 | 5.43E-08 | 5.43E-08 | 3.03E-08 | 5.33E-07 | 4.17E-09 | 5.59E-08 | 8.48E-09 | 8.48E-09 | 4.66E-09 | 8.17E-08 | 2.27E-09 | 3.03E-08 | 3.77E-09 | 3.77E-09 | 1.87E-09 | 4.19E-08 |
| 1075 | 258777.81 | 4084505.33 | 2.64E-08 | 3.80E-07 | 5.62E-08 | 5.62E-08 | 5.15E-08 | 5.52E-07 | 4.31E-09 | 5.78E-08 | 8.77E-09 | 8.77E-09 | 4.82E-09 | 8.45E-08 | 2.34E-09 | 3.13E-08 | 3.90E-09 | 3.90E-09 | 1.93E-09 | 4.34E-08 |
| 1076 | 258787.85 | 4084527.51 | 2.92E-09 | 3.91E-07 | 5.78E-08 | 5.78E-08 | 3.22E-08 | 5.68E-07 | 4.44E-09 | 5.95E-08 | 9.02E-09 | 9.02E-09 | 4.96E-09 | 6.70E-08 | 2.41E-09 | 3.22E-08 | 4.01E-09 | 4.01E-09 | 1.99E-09 | 4.46E-08 |
| 1077 | 258797.88 | 4084349.69 | 2.99E-08 | 3.99E-07 | 5.91E-08 | 5.91E-08 | 3.29E-08 | 5.80E-07 | 4.34E-09 | 6.08E-08 | 9.22E-09 | 9.22E-09 | 5.07E-09 | 8.89E-08 | 2.46E-09 | 3.29E-08 | 4.10E-09 | 4.10E-09 | 2.03E-09 | 4.56E-08 |
| 1078 | 258807.92 | 4084571.87 | 3.03E-08 | 4.05E-07 | 6.00E-08 | 6.00E-08 | 3.34E-08 | 5.89E-07 | 4.60E-09 | 6.17E-08 | 9.36E-09 | 9.36E-09 | 5.15E-09 | 9.02E-08 | 2.50E-09 | 3.34E-08 | 4.16E-09 | 4.16E-09 | 2.06E-09 | 4.63E-08 |
| 1079 | 258817.95 | 4084594.05 | 3.06E-08 | 4.03E-07 | 6.04E-08 | 6.04E-08 | 3.37E-08 | 5.93E-07 | 4.64E-09 | 6.22E-08 | 9.43E-09 | 9.43E-09 | 5.18E-09 | 9.09E-08 | 2.52E-09 | 5.56E-08 | 4.19E-09 | 4.19E-09 | 2.08E-09 | 4.66E-08 |
| 1080 | 258827.98 | 4084616.23 | 3.05E-08 | 4.03E-07 | 6.03E-08 | 6.03E-08 | 3.36E-08 | 5.93E-07 | 4.63E-09 | 6.21E-08 | 9.42E-09 | 9.42E-09 | 5.18E-09 | 9.08E-08 | 2.52E-09 | 3.36E-08 | 4.19E-09 | 4.19E-09 | 2.07E-09 | 4.66E-08 |
| 1081 | 258838.02 | 4084638.41 | 5.05E-08 | 4.04E-07 | 5.98E-08 | 5.98E-08 | 5.55E-08 | 5.87E-07 | 4.59E-09 | 6.16E-08 | 9.34E-09 | 9.34E-09 | 5.13E-09 | 9.00E-08 | 2.49E-09 | 5.33E-08 | 4.15E-09 | 4.15E-09 | 2.06E-09 | 4.62E-08 |
| 1082 | 258848.05 | 4084660.59 | 2.97E-08 | 3.97E-07 | 5.88E-08 | 5.88E-08 | 5.26E-08 | 5.77E-07 | 4.51E-09 | 6.05E-08 | 9.18E-09 | 9.18E-09 | 5.05E-09 | 8.84E-08 | 2.45E-09 | 3.27E-08 | 4.08E-09 | 4.08E-09 | 2.02E-09 | 4.54E-08 |
| 1083 | 258858.09 | 4084682.77 | 2.90E-08 | 3.87E-07 | 5.75E-08 | 5.73E-08 | 5.19E-08 | 5.63E-07 | 4.40E-09 | 5.90E-08 | 8.94E-09 | 6.94E-09 | 4.92E-09 | 8.62E-08 | 2.39E-09 | 3.19E-08 | 3.98E-09 | 3.98E-09 | 1.97E-09 | 4.42E-08 |
| 1084 | 258868.12 | 4084704.95 | 2.80E-08 | 3.74E-07 | 5.34E-08 | 5.34E-08 | 3.09E-08 | 5.44E-07 | 4.25E-09 | 5.70E-08 | 8.64E-09 | 8.84E-09 | 4.75E-09 | 8.33E-08 | 2.31E-09 | 3.03E-08 | 3.85E-09 | 3.85E-09 | 1.90E-09 | 4.28E-08 |
| 1085 | 258878.15 | 4084727.12 | 2.69E-08 | 3.59E-07 | 5.31E-08 | 5.31E-08 | 2.96E-08 | 5.21E-07 | 4.08E-09 | 5.47E-08 | 8.29E-09 | 8.29E-09 | 4.56E-09 | 7.99E-08 | 2.21E-09 | 2.96E-08 | 3.69E-09 | 3.69E-09 | 1.83E-09 | 4.10E-08 |
| 1086 | 258888.19 | 4084749.5 | 2.56E-08 | 5.42E-07 | 5.05E-08 | 5.05E-08 | 2.82E-08 | 4.96E-07 | 3.88E-09 | 5.20E-08 | 7.89E-09 | 7.89E-09 | 4.34E-09 | 7.60E-08 | 2.11E-09 | 2.82E-08 | 3.51E-09 | 3.51E-09 | 1.74E-09 | 5.90E-08 |
| 1087 | 258896.22 | 4084771.48 | 2.42E-08 | 3.23E-07 | 4.78E-08 | 4.78E-08 | 2.66E-08 | 4.69E-07 | 5.67E-09 | 4.92E-08 | 7.46E-09 | 7.46E-09 | 4.10E-09 | 7.19E-08 | 1.99E-09 | 2.66E-08 | 3.32E-09 | 3.32E-09 | 1.64E-09 | 3.69E-08 |
| 1088 | 258908.26 | 4084793.66 | 2.27E-08 | 3.04E-07 | 4.49E-08 | 4.49E-08 | 2.50E-08 | 4.41E-07 | 5.45E-09 | 4.63E-08 | 7.01E-09 | 7.01E-09 | 3.86E-09 | 6.76E-08 | 1.67E-09 | 2.50E-08 | 3.12E-09 | 3.12E-09 | 1.54E-09 | 3.47E-08 |
| 1089 | 258916.29 | 4084815.84 | 2.13E-08 | 2.84E-07 | 4.21E-08 | 4.21E-08 | 2.34E-08 | 4.13E-07 | 5.25E-09 | 4.33E-08 | 6.57E-09 | 6.57E-09 | 3.61E-09 | 6.33E-08 | 1.75E-09 | 2.34E-08 | 2.92E-09 | 2.92E-09 | 1.45E-09 | 3.25E-08 |
| 1090 | 258928.32 | 4084838.02 | 1.99E-08 | 2.65E-07 | 3.92E-08 | 5.92E-08 | 2.19E-08 | 5.85E-07 | 3.01E-09 | 4.04E-08 | 6.13E-09 | 6.13E-09 | 3.37E-09 | 3.90E-08 | 1.64E-09 | 2.19E-08 | 2.73E-09 | 2.73E-09 | 1.35E-09 | 3.03E-08 |
| 1091 | 258938.36 | 4084860.2 | 1.65E-08 | 2.47E-07 | 3.65E-08 | 5.65E-08 | 2.04E-08 | 3.59E-07 | 2.80E-09 | 3.76E-08 | 5.70E-09 | 5.70E-09 | 3.14E-09 | 5.50E-08 | 1.52E-09 | 2.03E-08 | 2.34E-09 | 2.34E-09 | 1.26E-08 | 2.82E-08 |
| 1092 | 258948.39 | 4084882.38 | 1.72E-08 | 2.29E-07 | 3.39E-08 | 5.39E-08 | 1.89E-08 | 3.33E-07 | 2.61E-09 | 3.49E-08 | 5.30E-09 | 5.30E-09 | 2.91E-09 | 5.11E-08 | 1.42E-09 | 1.89E-08 | 2.36E-09 | 2.36E-09 | 1.17E-09 | 2.62E-08 |
| 1093 | 258334.03 | 4084322.57 | 1.32E-08 | 1.77E-07 | 2.62E-08 | 2.62E-08 | 1.46E-08 | 2.57E-07 | 2.01E-09 | 2.69E-08 | 4.09E-09 | 4.09E-09 | 2.25E-09 | 3.94E-08 | 1.09E-09 | 1.46E-08 | 1.82E-09 | 1.82E-09 | 9.00E-10 | 2.02E-08 |
| 1094 | 258309.7 | 4084323.57 | 1.26E-08 | 1.70E-07 | 2.52E-08 | 2.52E-08 | 1.41E-08 | 2.48E-07 | 1.94E-09 | 2.60E-08 | 3.94E-09 | 3.94E-09 | 2.16E-09 | 3.79E-08 | 1.09E-09 | 1.40E-08 | 1.75E-09 | 1.75E-09 | 8.67E-10 | 1.95E-08 |
| 1095 | 258285.37 | 4084324.57 | 1.23E-08 | 1.64E-07 | 2.42E-08 | 2.42E-08 | 1.35E-08 | 2.38E-07 | 1.86E-09 | 2.50E-08 | 3.78E-09 | 3.78E-09 | 2.08E-09 | 3.65E-08 | 1.01E-09 | 1.35E-08 | 1.68E-09 | 1.68E-09 | 8.33E-10 | 1.87E-08 |
| 1096 | 266261.04 | 4084325.57 | 1.18E-08 | 1.57E-07 | 2.32E-08 | 2.32E-08 | 1.30E-08 | 2.28E-07 | 1.78E-09 | 2.39E-08 | 3.83E-09 | 3.63E-09 | 1.99E-09 | 3.50E-08 | 9.69E-10 | 1.29E-08 | 1.61E-09 | 1.61E-09 | 7.99E-10 | 1.79E-08 |
| 1097 | 266236.71 | 4084326.57 | 1.12E-08 | 1.50E-07 | 2.22E-08 | 2.22E-08 | 1.24E-08 | 2.18E-07 | 1.71E-09 | 2.29E-08 | 5.47E-09 | 3.47E-09 | 1.91E-09 | 3.34E-08 | 9.27E-10 | 1.24E-08 | 1.54E-09 | 1.54E-09 | 7.64E-10 | 1.72E-08 |
| 1098 | 258212.38 | 4084327.57 | 1.07E-08 | 1.43E-07 | 2.12E-08 | 2.12E-08 | 1.18E-08 | 2.08E-07 | 1.63E-09 | 2.18E-08 | 3.31E-09 | 3.31E-09 | 1.82E-09 | 3.19E-08 | 8.85E-10 | 1.18E-08 | 1.47E-09 | 1.47E-09 | 7.29E-10 | 1.64E-08 |
| 1099 | 258188.04 | 4084328.57 | 1.02E-08 | 1.36E-07 | 2.02E-08 | 2.02E-08 | 1.13E-08 | 1.98E-07 | 1.55E-09 | 2.08E-08 | 3.15E-09 | 3.15E-09 | 1.73E-09 | 3.04E-08 | 8.42E-10 | 1.12E-08 | 1.40E-09 | 1.40E-09 | 6.94E-10 | 1.56E-08 |
| 1100 | 258163.71 | 4084329.57 | 9.71E-09 | 1.30E-07 | 1.92E-08 | 1.92E-08 | 1.07E-08 | 1.88E-07 | 1.47E-09 | 1.98E-08 | 3.00E-09 | 3.00E-09 | 1.65E-09 | 2.89E-08 | 8.00E-10 | 1.07E-08 | 1.33E-09 | 1.33E-09 | 6.60E-10 | 1.48E-08 |
| 1101 | 258139.38 | 4084330.57 | 9.20E-09 | 1.23E-07 | 1.82E-08 | 1.82E-08 | 1.01E-08 | 1.79E-07 | 1.40E-09 | 1.87E-08 | 2.84E-09 | 2.84E-09 | 1.56E-09 | 2.74E-08 | 7.59E-10 | 1.01E-08 | 1.26E-09 | 1.26E-09 | 6.25E-10 | 1.40E-08 |
| 1102 | 258115.05 | 4084331.57 | 8.72E-09 | 1.16E-07 | 1.72E-08 | 1.72E-08 | 9.60E-09 | 1.69E-07 | 1.32E-09 | 1.77E-08 | 2.69E-09 | 2.69E-09 | 1.48E-09 | 2.59E-08 | 7.19E-10 | 9.60E-09 | 1.20E-09 | 1.20E-09 | 5.92E-10 | 1.33E-08 |
| 1103 | 258090.72 | 4084332.57 | 8.25E-09 | 1.10E-07 | 1.63E-08 | 1.63E-08 | 9.09E-09 | 1.60E-07 | 1.25E-09 | 1.68E-08 | 2.54E-09 | 2.54E-09 | 1.40E-09 | 2.45E-08 | 6.80E-10 | 9.08E-09 | 1.13E-09 | 1.13E-09 | 5.60E-10 | 1.26E-08 |
| 1104 | 258066.36 | 4084333.57 | 7.80E-09 | 1.04E-07 | 1.54E-08 | 1.54E-08 | 8.59E-09 | 1.51E-07 | 1.18E-09 | 1.59E-08 | 2.41E-09 | 2.41E-09 | 1.32E-09 | 2.32E-08 | 6.43E-10 | 8.58E-09 | 1.07E-09 | 1.07E-09 | 5.30E-10 | 1.19E-08 |
| 1105 | 258042.05 | 4084334.57 | 7.37E-09 | 9.84E-08 | 1.46E-08 | 1.46E-08 | 8.12E-09 | 1.43E-07 | 1.12E-09 | 1.50E-08 | 2.27E-09 | 2.27E-09 | 1.25E-09 | 2.19E-08 | 6.07E-10 | 8.11E-09 | 1.01E-09 | 1.01E-09 | 5.01E-10 | 1.12E-08 |
| 1106 | 258017.72 | 4084335.57 | 6.96E-09 | 9.30E-08 | 1.38E-08 | 1.38E-08 | 7.67E-09 | 1.35E-07 | 1.06E-09 | 1.42E-08 | 2.15E-09 | 2.15E-09 | 1.18E-09 | 2.07E-08 | 5.74E-10 | 7.67E-09 | 9.56E-10 | 9.56E-10 | 4.73E-10 | 1.06E-08 |
| 1107 | 257993.39 | 4084336.57 | 6.59E-09 | 8.80E-08 | 1.30E-08 | 1.30E-08 | 7.26E-09 | 1.28E-07 | 1.00E-09 | 1.34E-08 | 2.05E-09 | 2.03E-09 | 1.12E-09 | 1.96E-08 | 3.43E-10 | 7.25E-09 | 9.04E-10 | 9.04E-10 | 4.48E-10 | 1.01E-08 |
| 1108 | 237969.06 | 4084337.57 | 6.23E-09 | 8.33E-08 | 1.23E-08 | 1.23E-08 | 6.87E-09 | 1.21E-07 | 9.45E-10 | 1.27E-08 | 1.92E-09 | 1.92E-09 | 1.06E-09 | 1.85E-08 | 5.14E-10 | 6.88E-09 | 8.56E-10 | 8.56E-10 | 4.24E-10 | 9.51E-09 |
| 1109 | 237944.73 | 4084338.57 | 3.90E-09 | 7.89E-08 | 1.17E-08 | 1.17E-08 | 6.51E-09 | 1.15E-07 | 6.96E-10 | 1.20E-08 | 1.82E-09 | 1.82E-09 | 1.00E-09 | 1.76E-08 | 4.87E-10 | 6.50E-09 | 6.11E-10 | 8.11E-10 | 4.01E-10 | 9.01E-09 |
| 1110 | 257920.39 | 4084339.57 | 5.60E-09 | 7.48E-08 | 1.11E-08 | 1.11E-08 | 6.17E-09 | 1.09E-07 | 8.50E-10 | 1.14E-08 | 1.75E-09 | 1.73E-09 | 9.50E-10 | 1.66E-08 | 4.61E-10 | 6.16E-09 | 7.66E-10 | 7.66E-10 | 3.80E-10 | 8.54E-09 |
| 1111 | 257896.06 | 4084340.57 | 5.31E-09 | 7.10E-08 | 1.05E-08 | 1.05E-08 | 5.85E-09 | 1.03E-07 | 8.06E-10 | 1.08E-08 | 1.84E-09 | 1.64E-09 | 9.01E-10 | 1.58E-08 | 4.36E-10 | 3.85E-09 | 7.29E-10 | 7.29E-10 | 3.61E-10 | 8.11E-09 |
| 1112 | 257871.73 | 4084341.57 | 5.05E-09 | 6.74E-08 | 9.98E-09 | 9.96E-09 | 5.56E-09 | 9.80E-08 | 7.66E-10 | 1.05E-08 | 1.56E-09 | 1.56E-09 | 8.56E-10 | 1.50E-08 | 4.16E-10 | 3.56E-09 | 6.93E-10 | 6.93E-10 | 3.43E-10 | 7.70E-09 |
| 1113 | 257847.4 | 4084342.57 | 4.80E-09 | 6.41E-08 | 9.49E-09 | 9.49E-09 | 5.29E-09 | 9.32E-08 | 7.28E-10 | 9.77E-09 | 1.48E-09 | 1.48E-09 | 8.14E-10 | 1.43E-08 | 3.96E-10 | 3.28E-09 | 6.59E-10 | 6.59E-10 | 3.26E-10 | 7.32E-09 |
| 1114 | 257823.07 | 4084343.57 | 4.57E-09 | 6.11E-08 | 9.03E-09 | 9.03E-09 | 5.04E-09 | 8.87E-08 | 6.94E-10 | 9.30E-09 | 1.41E-09 | 1.41E-09 | 7.75E-10 | 1.36E-08 | 3.77E-10 | 3.03E-09 | 6.27E-10 | 6.27E-10 | 3.11E-10 | 6.97E-09 |
| 1113 | 237798.73 | 4084344.57 | 4.36E-09 | 5.62E-08 | 6.61E-09 | 6.61E-09 | 4.80E-09 | 8.46E-08 | 6.61E-10 | 8.87E-09 | 1.34E-09 | 1.34E-09 | 7.39E-10 | 1.30E-08 | 3.59E-10 | 4.80E-09 | 3.98E-10 | 5.96E-10 | 2.96E-10 | 6.65E-09 |
| 1116 | 237774.4 | 4084345.57 | 4.16E-09 | 3.56E-08 | 6.22E-09 | 6.22E-09 | 4.58E-09 | 6.08E-08 | 6.31E-10 | 8.47E-09 | 1.28E-09 | 1.28E-09 | 7.06E-10 | 1.24E-08 | 3.43E-10 | 4.58E-09 | 5.71E-10 | 5.71E-10 | 2.83E-10 | 6.35E-09 |
| 1117 | 257750.07 | 4084346.57 | 3.98E-09 | 5.31E-08 | 7.86E-09 | 7.86E-09 | 4.38E-09 | 7.77E-08 | 6.04E-10 | 8.10E-09 | 1.23E-09 | 1.23E-09 | 6.75E-10 | 1.18E-08 | 3.28E-10 | 4.38E-09 | 5.46E-10 | 5.46E-10 | 2.70E-10 | 6.07E-09 |
| 1116 | 257725.74 | 4084347.57 | 3.81E-09 | 5.09E-08 | 7.53E-09 | 7.53E-09 | 4.70E-09 | 7.40E-08 | 5.78E-10 | 7.76E-09 | 1.18E-09 | 1.18E-09 | 6.47E-10 | 1.13E-08 | 3.14E-10 | 4.20E-09 | 5.25E-10 | 5.23E-10 | 2.59E-10 | 5.82E-09 |
| 1119 | 257701.41 | 4084348.57 | 3.66E-09 | 4.89E-08 | 7.23E-09 | 7.23E-09 | 4.03E-09 | 7.10E-08 | 5.55E-10 | 7.45E-09 | 1.13E-09 | 1.13E-09 | 6.21E-10 | 1.09E-08 | 3.02E-10 | 4.03E-09 | 5.02E-10 | 5.02E-10 | 2.49E-10 | 5.58E-09 |
| 1120 | 257677.08 | 4084349.57 | 3.52E-09 | 4.70E-08 | 6.96E-09 | 6.96E-09 | 3.88E-09 | 6.83E-08 | 5.34E-10 | 7.16E-09 | 1.09E-09 | 1.09E-09 | 5.97E-10 | 1.09E-08 | 2.90E-10 | 3.88E-09 | 4.83E-10 | 4.83E-10 | 2.39E-10 | 5.37E-09 |
| 1121 | 257652.74 | 4084350.57 | 3.39E-09 | 4.53E-08 | 6.70E-09 | 6.70E-09 | 3.74E-09 | 6.58E-08 | 5.15E-10 | 6.90E-09 | 1.05E-09 | 1.05E-09 | 5.75E-10 | 1.01E-08 | 2.80E-10 | 3.73E-09 | 4.66E-10 | 4.66E-10 | 2.30E-10 | 5.18E-09 |
| 1122 | 257626.41 | 4084351.58 | 3.26E-09 | 4.36E-08 | 6.47E-09 | 6.47E-09 | 3.61E-09 | 6.36E-08 | 4.97E-10 | 6.67E-09 | 1.01E-09 | 1.01E-09 | 5.56E-10 | 9.74E-09 | 2.70E-10 | 3.61E-09 | 4.60E-10 | 4.50E-10 | 2.23E-10 | 5.00E-09 |
| 1123 | 257604.08 | 4084352.58 | 3.17E-09 | 4.23E-08 | 6.26E-09 | 6.26E-09 | 3.49E-09 | 6.15E-08 | 4.81E-10 | 6.45E-09 | 9.78E-10 | 9.78E-10 | 5.38E-10 | 9.42E-09 | 2.61E-10 | 3.49E-09 | 4.35E-10 | 4.35E-10 | 2.15E-10 | 4.84E-09 |
| 1124 | 257579.75 | 4084353.58 | 3.07E-09 | 4.10E-08 | 6.07E-09 | 6.07E-09 | 3.38E-09 | 5.98E-08 | 4.66E-10 | 6.25E-09 | 9.47E-10 | 9.47E-10 | 5.21E-10 | 9.13E-09 | 2.53E-10 | 3.38E-09 | 4.21E-10 | 4.21E-10 | 2.09E-10 | 4.66E-09 |
| 1125 | 257555.42 | 4084354.58 | 2.98E-09 | 3.98E-08 | 5.88E-09 | 5.88E-09 | 3.28E-09 | 5.78E-08 | 4.52E-10 | 6.06E-09 | 9.19E-10 | 9.19E-10 | 5.05E-10 | 8.85E-09 | 2.45E-10 | 3.28E-09 | 4.09E-10 | 4.09E-10 | 2.02E-10 | 4.54E-09 |
| 1126 | 257531.08 | 4084355.58 | 2.89E-09 | 3.86E-08 | 5.71E-09 | 5.71E-09 | 3.19E-09 | 5.61E-08 | 4.39E-10 | 5.88E-09 | 8.92E-10 | 6.92E-10 | 4.91E-10 | 6.60E-09 | 2.38E-10 | 3.18E-09 | 3.97E-10 | 3.97E-10 | 1.96E-10 | 4.41E-09 |
| 1127 | 258351.93 | 4084230.8 | 9.62E-09 | 1.29E-07 | 1.90E-08 | 1.90E-08 | 1.06E-08 | 1.67E-07 | 1.46E-09 | 1.96E-08 | 2.97E-09 | 2.97E-09 | 1.63E-09 | 2.86E-08 | 7.93E-10 | 1.06E-08 | 1.32E-09 | 1.32E-09 | 6.54E-10 | 1.47E-08 |
| 1128 | 258373.93 | 4084238.94 | 1.03E-08 | 1.37E-07 | 2.03E-08 | 2.03E-08 | 1.13E-08 | 2.00E-07 | 1.56E-09 | 2.09E-08 | 3.16E-09 | 3.16E-09 | 1.75E-09 | 3.06E-08 | 8.46E-10 | 1.13E-08 | 1.41E-09 | 1.41E-09 | 6.99E-10 | 1.57E-08 |
| 1129 | 258395.93 | 4084247.09 | 1.10E-08 | 1.47E-07 | 2.17E-08 | 2.17E-08 | 1.21E-08 | 2.13E-07 | 1.67E-09 | 2.24E-08 | 3.39E-09 | 3.39E-09 | 1.68E-09 | 3.27E-08 | 9.05E-10 | 1.21E-08 | 1.51E-09 | 1.51E-09 | 7.46E-10 | 1.68E-08 |
| 1130 | 258417.93 | 4084255.25 | 1.17E-08 | 1.56E-07 | 2.31E-08 | 2.31E-08 | 1.29E-08 | 2.27E-07 | 1.78E-09 | 2.38E-08 | 3.61E-09 | 3.61E-09 | 1.98E-09 | 3.48E-08 | 9.65E-10 | 1.29E-08 | 1.61E-09 | 1.61E-09 | 7.95E-10 | 1.79E-08 |
| 1131 | 258439.93 | 4084263.38 | 1.24E-08 | 1.68E-07 | 2.46E-08 | 2.46E-08 | 1.37E-08 | 2.41E-07 | 1.89E-09 | 2.53E-08 | 3.84E-09 | 3.84E-09 | 2.11E-09 | 3.70E-08 | 1.03E-09 | 1.37E-08 | 1.71E-09 | 1.71E-09 | 8.45E-10 | 1.90E-08 |
| 1132 | 258461.94 | 4084271.55 | 1.32E-08 | 1.76E-07 | 2.61E-08 | 2.61E-08 | 1.45E-08 | 2.56E-07 | 2.00E-09 | 2.68E-08 | 4.07E-09 | 4.07E-09 | 2.24E-09 | 3.92E-08 | 1.09E-09 | 1.45E-08 | 1.61E-09 | 1.81E-09 | 8.96E-10 | 2.01E-08 |
| 1135 | 258483.94 | 4084279.67 | 1.39E-08 | 1.86E-07 | 2.76E-08 | 2.76E-08 | 1.54E-08 | 2.71E-07 | 2.12E-09 | 2.84E-08 | 4.30E-09 | 4.30E-09 | 2.37E-09 | 4.15E-08 | 1.15E-09 | 1.54E-08 | 1.91E-09 | 1.91E-09 | 9.47E-10 | 2.13E-08 |
| 1134 | 258505.94 | 4084287.82 | 1.47E-08 | 1.96E-07 | 2.91E-08 | 2.91E-08 | 1.62E-08 | 2.85E-07 | 2.23E-09 | 2.99E-08 | 4.54E-09 | 4.54E-09 | 2.49E-09 | 4.37E-08 | 1.21E-09 | 1.62E-08 | 2.02E-09 | 2.02E-09 | 9.99E-10 | 2.24E-08 |
| 1135 | 258527.94 | 4084295.96 | 1.55E-08 | 2.07E-07 | 3.06E-08 | 3.06E-08 | 1.70E-08 | 3.00E-07 | 2.35E-09 | 3.15E-08 | 4.77E-09 | 4.77E-09 | 2.62E-09 | 4.60E-08 | 1.27E-09 | 1.70E-08 | 2.12E-09 | 2.12E-09 | 1.05E-09 | 2.36E-08 |
| 1136 | 258549.94 | 4084304.11 | 1.62E-08 | 2.17E-07 | 3.20E-08 | 3.20E-08 | 1.79E-08 | 3.15E-07 | 2.46E-09 | 3.30E-08 | 5.00E-09 | 5.00E-09 | 2.75E-09 | 4.82E-08 | 1.34E-09 | 1.79E-08 | 2.23E-09 | 2.23E-09 | 1.10E-09 | 2.47E-09 |
| 1137 | 266571.94 | 4084312.25 | 1.70E-08 | 2.26E-07 | 3.35E-08 | 3.35E-08 | 1.87E-08 | 3.29E-07 | 2.57E-09 | 3.45E-08 | 5.23E-09 | 5.23E-09 | 2.88E-09 | 5.04E-08 | 1.40E-09 | 1.87E-08 | 2.33E-09 | 2.33E-09 | 1.15E-09 | 2.59E-08 |
| 1166 | 266593.95 | 4084370.4 | 1.77E-08 | 2.36E-07 | 3.49E-08 | 3.49E-08 | 1.93E-08 | 3.43E-07 | 2.68E-09 | 3.60E-08 | 5.46E-09 | 5.46E-09 | 3.00E-09 | 5.26E-08 | 1.46E-09 | 1.95E-08 | 2.43E-09 | 2.43E-09 | 1.20E-09 | 2.70E-08 |
| 1139 | 258615.95 | 4084328.55 | 1.84E-08 | 2.45E-07 | 3.63E-08 | 3.63E-08 | 2.02E-08 | 3.57E-07 | 2.79E-09 | 3.74E-08 | 5.67E-09 | 5.67E-09 | 3.12E-09 | 5.46E-08 | 1.51E-09 | 2.02E-08 | 2.32E-09 | 2.32E-09 | 1.25E-09 | 2.80E-08 |
| 1140 | 258637.95 | 4084336.69 | 1.90E-08 | 2.34E-07 | 3.76E-08 | 3.76E-08 | 2.10E-08 | 3.70E-07 | 2.89E-09 | 3.87E-08 | 5.87E-09 | 5.87E-09 | 3.23E-09 | 5.66E-08 | 1.57E-09 | 2.10E-08 | 2.61E-09 | 2.61E-09 | 1.29E-09 | 2.91E-08 |
| 1141 | 258659.95 | 4084344.84 | 1.97E-08 | 2.63E-07 | 3.89E-08 | 3.89E-08 | 2.17E-08 | 5.82E-07 | 2.98E-09 | 4.00E-08 | 6.07E-09 | 6.07E-09 | 3.34E-09 | 5.85E-08 | 1.62E-09 | 2.17E-08 | 2.70E-09 | 2.70E-09 | 1.34E-09 | 5.00E-08 |
| 1142 | 258681.95 | 4084352.98 | 2.02E-08 | 2.70E-07 | 4.00E-08 | 4.00E-08 | 2.23E-08 | 5.93E-07 | 5.07E-09 | 4.12E-08 | 6.25E-09 | 6.25E-09 | 3.43E-09 | 6.02E-08 | 1.67E-09 | 2.23E-08 | 2.78E-09 | 2.78E-09 | 1.38E-09 | 3.09E-08 |
| 1143 | 258703.95 | 4084361.13 | 2.08E-08 | 2.77E-07 | 4.10E-08 | 4.10E-08 | 2.29E-08 | 4.03E-07 | 3.15E-09 | 4.25E-08 | 6.41E-09 | 6.41E-09 | 3.52E-09 | 6.17E-08 | 1.71E-09 | 2.29E-08 | 2.85E-09 | 2.85E-09 | 1.41E-09 | 3.17E-08 |
| 1144 | 258725.96 | 4084369.28 | 2.12E-08 | 2.84E-07 | 4.19E-08 | 4.19E-08 | 2.34E-08 | 4.12E-07 | 3.22E-09 | 4.32E-08 | 6.55E-09 | 6.55E-09 | 3.60E-09 | 6.31E-08 | 1.75E-09 | 2.34E-08 | 2.91E-09 | 2.91E-09 | 1.44E-09 | 3.24E-08 |
| 1145 | 258747.96 | 4084377.42 | 2.16E-08 | 2.89E-07 | 4.27E-08 | 4.27E-08

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 941 | 258497.95 | 4084580.04 | 4.30E-08 | 5.74E-07 | 8.49E-08 | 8.49E-08 | 4.73E-08 | 8.34E-07 | | 6.52E-09 | 8.74E-08 | 1.33E-08 | 1.33E-08 | 7.29E-09 | 1.28E-07 | | 3.54E-09 | 4.73E-08 | 3.90E-08 | 5.90E-09 | 2.92E-09 | 6.56E-08 |
| 942 | 258520.2 | 4084568.28 | 4.42E-08 | 3.91E-07 | 8.74E-08 | 8.74E-08 | 4.87E-08 | 8.59E-07 | | 8.71E-09 | 9.00E-08 | 1.37E-08 | 1.37E-08 | 7.50E-09 | 1.32E-07 | | 3.65E-09 | 4.87E-08 | 8.07E-09 | 6.07E-09 | 3.01E-09 | 6.73E-08 |
| 943 | 258542.44 | 4084596.52 | 4.53E-08 | 8.05E-07 | 8.93E-08 | 6.95E-08 | 4.99E-08 | 8.79E-07 | | 6.87E-09 | 9.22E-08 | 1.40E-08 | 1.40E-08 | 7.68E-09 | 1.35E-07 | | 3.73E-09 | 4.99E-08 | 6.22E-09 | 8.22E-09 | 3.08E-09 | 8.91E-08 |
| 944 | 258564.68 | 4084604.75 | 4.61E-08 | 8.16E-07 | 9.11E-08 | 9.11E-08 | 3.08E-08 | 6.95E-07 | | 6.99E-09 | 9.38E-08 | 1.42E-08 | 1.42E-08 | 7.82E-09 | 1.37E-07 | | 3.80E-09 | 5.07E-08 | 6.33E-09 | 6.33E-09 | 3.13E-09 | 7.03E-08 |
| 945 | 258586.93 | 4084612.99 | 4.66E-08 | 6.22E-07 | 9.20E-08 | 9.20E-08 | 5.13E-08 | 9.04E-07 | | 7.07E-09 | 9.48E-08 | 1.44E-08 | 1.44E-08 | 7.90E-09 | 1.38E-07 | | 3.84E-09 | 5.13E-08 | 8.39E-09 | 8.39E-09 | 3.16E-09 | 7.11E-08 |
| 946 | 258609.17 | 4084621.22 | 4.67E-08 | 6.24E-07 | 9.23E-08 | 9.23E-08 | 5.13E-08 | 9.06E-07 | | 7.09E-09 | 9.50E-08 | 1.44E-08 | 1.44E-08 | 7.92E-09 | 1.39E-07 | | 3.85E-09 | 5.14E-08 | 6.41E-09 | 6.41E-09 | 3.17E-09 | 7.13E-08 |
| 947 | 258641.19 | 4084651.07 | 4.84E-08 | 8.47E-07 | 9.57E-08 | 9.57E-08 | 5.34E-08 | 9.40E-07 | | 7.35E-09 | 9.83E-08 | 1.49E-08 | 1.49E-08 | 8.22E-09 | 1.44E-07 | | 3.99E-09 | 5.33E-08 | 6.65E-09 | 6.65E-09 | 3.29E-09 | 7.39E-08 |
| 948 | 258650.97 | 4084672.68 | 5.00E-08 | 8.68E-07 | 9.89E-08 | 9.89E-08 | 5.51E-08 | 9.71E-07 | | 7.59E-09 | 1.02E-07 | 1.54E-08 | 1.54E-08 | 8.49E-09 | 1.49E-07 | | 4.12E-09 | 5.51E-08 | 6.87E-09 | 6.87E-09 | 3.40E-09 | 7.63E-08 |
| 949 | 258660.74 | 4084694.29 | 5.11E-08 | 8.82E-07 | 1.01E-07 | 1.01E-07 | 5.83E-08 | 9.91E-07 | | 7.75E-09 | 1.04E-07 | 1.58E-08 | 1.56E-08 | 8.66E-09 | 1.52E-07 | | 4.21E-09 | 5.62E-08 | 7.01E-09 | 7.01E-09 | 3.47E-09 | 7.79E-08 |
| 950 | 258670.52 | 4084715.9 | 5.15E-08 | 8.88E-07 | 1.02E-07 | 1.02E-07 | 5.67E-08 | 9.99E-07 | | 7.81E-09 | 1.05E-07 | 1.59E-08 | 1.59E-08 | 8.73E-09 | 1.53E-07 | | 4.24E-09 | 5.67E-08 | 7.07E-09 | 7.07E-09 | 3.50E-09 | 7.86E-08 |
| 951 | 258680.3 | 4084737.51 | 5.13E-08 | 8.86E-07 | 1.01E-07 | 1.01E-07 | 5.66E-08 | 9.96E-07 | | 7.79E-09 | 1.04E-07 | 1.58E-08 | 1.58E-08 | 8.71E-09 | 1.53E-07 | | 4.23E-09 | 5.65E-08 | 7.05E-09 | 7.05E-09 | 3.49E-09 | 7.83E-08 |
| 952 | 258690.07 | 4084759.12 | 5.05E-08 | 8.74E-07 | 9.98E-08 | 9.98E-08 | 5.56E-08 | 9.80E-07 | | 7.66E-09 | 1.03E-07 | 1.56E-08 | 1.56E-08 | 8.56E-09 | 1.50E-07 | | 4.18E-09 | 5.56E-08 | 8.93E-09 | 6.93E-09 | 3.43E-09 | 7.70E-08 |
| 953 | 258699.83 | 4084780.73 | 4.90E-08 | 8.54E-07 | 9.68E-08 | 9.68E-08 | 5.40E-08 | 9.51E-07 | | 7.43E-09 | 9.97E-08 | 1.51E-08 | 1.51E-08 | 8.31E-09 | 1.46E-07 | | 4.04E-09 | 5.39E-08 | 8.77E-09 | 6.77E-09 | 3.33E-09 | 7.47E-08 |
| 954 | 258709.63 | 4084802.34 | 4.69E-08 | 8.26E-07 | 9.26E-08 | 9.26E-08 | 5.16E-08 | 9.10E-07 | | 7.11E-09 | 9.54E-08 | 1.45E-08 | 1.45E-08 | 7.95E-08 | 1.39E-07 | | 3.86E-09 | 5.16E-08 | 6.43E-09 | 6.43E-08 | 3.18E-09 | 7.15E-08 |
| 955 | 258719.4 | 4084823.95 | 4.43E-08 | 5.92E-07 | 8.75E-08 | 8.75E-08 | 4.88E-08 | 8.60E-07 | | 6.72E-09 | 9.01E-08 | 1.37E-08 | 1.37E-09 | 7.51E-09 | 1.32E-07 | | 3.65E-09 | 4.88E-08 | 6.08E-09 | 6.08E-09 | 3.01E-09 | 8.76E-08 |
| 956 | 258729.18 | 4084845.56 | 4.14E-09 | 5.53E-07 | 8.17E-08 | 8.17E-08 | 4.56E-08 | 8.03E-07 | | 6.28E-09 | 8.42E-08 | 1.26E-08 | 1.28E-08 | 7.02E-09 | 1.23E-07 | | 3.41E-09 | 4.55E-08 | 5.68E-09 | 3.68E-08 | 2.61E-09 | 6.31E-08 |
| 957 | 258738.98 | 4084867.17 | 3.83E-08 | 5.11E-07 | 7.56E-08 | 7.56E-08 | 4.22E-08 | 7.43E-07 | | 5.81E-09 | 7.79E-08 | 1.16E-08 | 1.18E-08 | 6.49E-09 | 1.14E-07 | | 3.15E-09 | 4.21E-08 | 5.25E-09 | 5.25E-09 | 2.60E-09 | 3.64E-08 |
| 958 | 258748.73 | 4084888.78 | 3.31E-08 | 4.69E-07 | 8.94E-08 | 8.94E-08 | 3.87E-08 | 6.82E-07 | | 5.33E-09 | 7.14E-08 | 1.08E-08 | 1.08E-08 | 5.96E-09 | 1.04E-07 | | 2.89E-09 | 3.87E-08 | 4.82E-09 | 4.82E-09 | 2.39E-09 | 5.36E-08 |
| 959 | 258542.25 | 4084522.4 | 3.12E-08 | 4.16E-07 | 8.16E-08 | 8.16E-08 | 3.43E-08 | 6.05E-07 | | 4.73E-09 | 6.34E-08 | 9.82E-09 | 9.62E-09 | 5.29E-09 | 9.27E-08 | | 2.57E-09 | 3.43E-08 | 4.26E-09 | 4.28E-08 | 2.12E-09 | 4.76E-08 |
| 960 | 258317.92 | 4084523.4 | 3.05E-08 | 4.02E-07 | 6.04E-08 | 6.04E-08 | 3.36E-08 | 5.93E-07 | | 4.64E-09 | 6.21E-08 | 9.42E-09 | 9.42E-09 | 5.18E-09 | 9.08E-08 | | 2.52E-09 | 3.36E-08 | 4.19E-09 | 4.19E-09 | 2.08E-09 | 4.66E-08 |
| 961 | 258293.59 | 4084524.4 | 2.98E-08 | 3.99E-07 | 5.90E-08 | 5.90E-08 | 3.29E-08 | 5.79E-07 | | 4.53E-09 | 6.07E-08 | 9.21E-09 | 9.21E-09 | 5.06E-09 | 8.87E-08 | | 2.46E-09 | 3.29E-08 | 4.10E-09 | 4.10E-09 | 2.03E-09 | 4.55E-08 |
| 962 | 258269.25 | 4084525.4 | 2.91E-08 | 3.88E-07 | 5.74E-08 | 5.74E-08 | 3.20E-08 | 5.64E-07 | | 4.41E-09 | 5.91E-08 | 8.97E-09 | 8.97E-09 | 4.93E-09 | 8.64E-08 | | 2.40E-09 | 3.20E-08 | 3.99E-09 | 3.99E-09 | 1.98E-09 | 4.44E-08 |
| 963 | 258244.92 | 4084526.4 | 2.82E-08 | 3.77E-07 | 5.56E-08 | 3.58E-08 | 3.11E-08 | 5.48E-07 | | 4.28E-09 | 5.74E-08 | 8.71E-09 | 8.71E-09 | 4.79E-09 | 8.39E-08 | | 2.33E-09 | 3.11E-08 | 3.87E-09 | 3.87E-09 | 1.92E-09 | 4.31E-08 |
| 964 | 258220.59 | 4084527.4 | 2.73E-08 | 3.65E-07 | 5.40E-08 | 5.40E-08 | 3.01E-08 | 5.50E-07 | | 4.15E-09 | 5.56E-08 | 8.43E-09 | 8.43E-09 | 4.83E-09 | 8.12E-08 | | 2.25E-09 | 3.01E-08 | 3.75E-09 | 3.75E-09 | 1.86E-09 | 4.17E-08 |
| 965 | 258198.28 | 4084528.4 | 2.64E-08 | 3.52E-07 | 5.21E-08 | 5.21E-08 | 2.90E-08 | 5.12E-07 | | 4.00E-09 | 5.36E-08 | 8.15E-09 | 8.13E-09 | 4.47E-09 | 7.84E-08 | | 2.17E-09 | 2.90E-08 | 3.62E-09 | 3.83E-09 | 1.79E-09 | 4.02E-08 |
| 966 | 258171.93 | 4084529.4 | 2.54E-08 | 3.39E-07 | 5.01E-08 | 5.01E-08 | 2.79E-08 | 4.92E-07 | | 3.85E-09 | 5.16E-08 | 7.83E-09 | 7.82E-09 | 4.30E-09 | 7.54E-08 | | 2.09E-09 | 2.79E-08 | 3.48E-09 | 3.48E-09 | 1.72E-09 | 3.87E-08 |
| 967 | 258147.59 | 4084530.4 | 2.43E-08 | 3.25E-07 | 4.80E-08 | 4.80E-08 | 2.68E-08 | 4.77E-07 | | 3.69E-09 | 4.95E-08 | 7.50E-09 | 7.50E-09 | 4.12E-09 | 7.23E-08 | | 2.00E-09 | 2.68E-08 | 3.34E-09 | 3.34E-09 | 1.65E-09 | 3.71E-08 |
| 968 | 258123.28 | 4084531.4 | 2.32E-08 | 3.10E-07 | 4.59E-08 | 4.59E-08 | 2.56E-08 | 4.51E-07 | | 3.52E-09 | 4.72E-08 | 7.16E-09 | 7.16E-09 | 3.94E-09 | 8.90E-08 | | 1.91E-09 | 2.56E-08 | 3.19E-09 | 3.19E-09 | 1.58E-09 | 3.54E-08 |
| 969 | 258098.93 | 4084532.4 | 2.21E-08 | 2.95E-07 | 4.37E-08 | 4.37E-08 | 2.43E-08 | 4.29E-07 | | 3.35E-09 | 4.50E-08 | 8.83E-09 | 8.83E-09 | 3.75E-09 | 6.57E-08 | | 1.82E-09 | 2.43E-08 | 3.03E-09 | 3.03E-09 | 1.50E-09 | 3.37E-08 |
| 970 | 258074.8 | 4084533.4 | 2.10E-08 | 2.80E-07 | 4.14E-08 | 4.14E-08 | 2.31E-08 | 4.07E-07 | | 3.18E-09 | 4.26E-08 | 8.47E-09 | 6.47E-09 | 3.55E-09 | 8.23E-08 | | 1.73E-09 | 2.31E-08 | 2.88E-09 | 2.88E-09 | 1.42E-09 | 3.20E-08 |
| 971 | 258050.27 | 4084534.4 | 1.98E-08 | 2.64E-07 | 3.91E-08 | 3.91E-08 | 2.18E-08 | 3.84E-07 | | 3.01E-09 | 4.03E-08 | 6.11E-09 | 6.11E-09 | 3.36E-09 | 5.89E-08 | | 1.63E-09 | 2.18E-08 | 2.77E-09 | 2.77E-09 | 1.33E-09 | 3.02E-08 |
| 977 | 258025.94 | 4084535.4 | 1.86E-08 | 2.49E-07 | 3.68E-08 | 3.68E-08 | 2.05E-08 | 3.82E-07 | | 2.83E-09 | 3.79E-08 | 5.75E-09 | 5.75E-09 | 3.16E-09 | 5.54E-08 | | 1.54E-09 | 2.05E-08 | 2.56E-09 | 2.56E-09 | 1.27E-09 | 2.84E-08 |
| 973 | 258001.6 | 4084536.4 | 1.75E-08 | 2.34E-07 | 3.45E-08 | 3.45E-08 | 1.93E-08 | 3.39E-07 | | 2.65E-09 | 3.58E-08 | 5.39E-09 | 5.39E-09 | 2.97E-09 | 5.20E-08 | | 1.44E-09 | 1.92E-08 | 2.40E-09 | 2.40E-09 | 1.19E-09 | 2.87E-08 |
| 974 | 257977.27 | 4084537.4 | 1.83E-08 | 2.18E-07 | 3.23E-08 | 3.23E-08 | 1.80E-08 | 3.17E-07 | | 2.48E-09 | 3.32E-08 | 5.04E-09 | 5.04E-09 | 2.77E-09 | 4.86E-08 | | 1.35E-09 | 1.80E-08 | 2.24E-09 | 2.24E-09 | 1.11E-09 | 2.49E-08 |
| 975 | 257952.94 | 4084538.4 | 1.52E-08 | 2.03E-07 | 3.01E-08 | 3.01E-08 | 1.68E-08 | 2.96E-07 | | 2.31E-09 | 3.10E-08 | 4.70E-09 | 4.70E-09 | 2.58E-09 | 4.53E-08 | | 1.25E-09 | 1.68E-08 | 2.09E-08 | 2.09E-09 | 1.03E-09 | 2.32E-08 |
| 976 | 257928.61 | 4084539.4 | 1.42E-08 | 1.89E-07 | 2.60E-08 | 2.80E-08 | 1.56E-08 | 2.75E-07 | | 2.15E-09 | 2.88E-08 | 4.37E-09 | 4.37E-09 | 2.40E-09 | 4.21E-09 | | 1.17E-09 | 1.56E-08 | 1.94E-09 | 1.94E-09 | 9.62E-10 | 2.16E-08 |
| 977 | 257904.28 | 4084540.4 | 1.31E-08 | 1.75E-07 | 2.59E-08 | 2.59E-08 | 1.45E-08 | 2.55E-07 | | 1.99E-09 | 2.67E-08 | 4.05E-09 | 4.05E-09 | 2.21E-09 | 3.90E-09 | | 1.08E-09 | 1.45E-08 | 1.80E-09 | 1.80E-09 | 8.92E-10 | 2.00E-08 |
| 978 | 257879.94 | 4084541.4 | 1.22E-08 | 1.62E-07 | 2.40E-08 | 2.40E-08 | 1.34E-08 | 2.36E-07 | | 1.83E-09 | 2.47E-08 | 3.75E-09 | 3.76E-09 | 2.06E-09 | 3.62E-09 | | 1.00E-09 | 1.34E-08 | 1.67E-09 | 1.87E-09 | 8.26E-10 | 1.88E-08 |
| 979 | 257855.61 | 4084542.4 | 1.13E-08 | 1.50E-07 | 2.23E-08 | 2.23E-08 | 1.24E-08 | 2.19E-07 | | 1.71E-09 | 2.29E-08 | 3.47E-09 | 3.47E-09 | 1.91E-09 | 3.35E-08 | | 9.28E-10 | 1.24E-08 | 1.55E-09 | 1.55E-09 | 7.65E-10 | 1.72E-08 |
| 980 | 257831.28 | 4084543.4 | 1.04E-08 | 1.39E-07 | 2.06E-08 | 2.06E-08 | 1.15E-08 | 2.03E-07 | | 1.58E-09 | 2.12E-08 | 3.22E-09 | 3.22E-09 | 1.77E-09 | 3.10E-08 | | 8.60E-10 | 1.15E-08 | 1.43E-09 | 1.43E-09 | 7.09E-10 | 1.59E-08 |
| 981 | 257806.95 | 4084544.4 | 9.68E-09 | 1.29E-07 | 1.91E-08 | 1.91E-08 | 1.07E-08 | 1.88E-07 | | 1.47E-09 | 1.97E-08 | 2.99E-09 | 2.99E-09 | 1.64E-09 | 2.88E-08 | | 7.98E-10 | 1.07E-08 | 1.33E-09 | 1.33E-09 | 6.56E-10 | 1.48E-08 |
| 982 | 257782.62 | 4084545.4 | 8.99E-09 | 1.20E-07 | 1.78E-08 | 1.78E-08 | 9.91E-09 | 1.75E-07 | | 1.36E-09 | 1.83E-08 | 2.77E-09 | 2.77E-09 | 1.53E-09 | 2.67E-09 | | 7.41E-10 | 9.90E-09 | 1.23E-09 | 1.23E-09 | 6.11E-10 | 1.37E-08 |
| 983 | 257758.29 | 4084546.4 | 8.37E-09 | 1.12E-07 | 1.65E-08 | 1.65E-08 | 9.22E-09 | 1.63E-07 | | 1.27E-09 | 1.70E-08 | 2.58E-09 | 2.58E-09 | 1.42E-09 | 2.49E-08 | | 8.90E-10 | 9.22E-09 | 1.15E-09 | 1.15E-09 | 5.69E-10 | 1.28E-08 |
| 984 | 257733.95 | 4084547.41 | 7.81E-09 | 1.04E-07 | 1.54E-08 | 1.54E-08 | 8.81E-09 | 1.52E-07 | | 1.19E-09 | 1.59E-08 | 2.41E-09 | 2.41E-09 | 1.33E-09 | 2.32E-08 | | 6.44E-10 | 8.50E-09 | 1.07E-09 | 1.07E-09 | 5.31E-10 | 1.19E-08 |
| 985 | 257709.62 | 4084548.41 | 7.32E-09 | 9.77E-08 | 1.45E-08 | 1.45E-08 | 8.06E-09 | 1.42E-07 | | 1.11E-09 | 1.49E-08 | 2.26E-09 | 2.26E-09 | 1.24E-09 | 2.18E-09 | | 6.03E-10 | 8.05E-09 | 1.00E-09 | 1.00E-09 | 4.97E-10 | 1.12E-08 |
| 986 | 257685.29 | 4084549.41 | 8.87E-09 | 9.18E-09 | 1.56E-08 | 1.36E-08 | 7.57E-09 | 1.33E-07 | | 1.04E-09 | 1.40E-08 | 2.12E-09 | 2.12E-09 | 1.17E-09 | 2.04E-09 | | 5.66E-10 | 7.56E-09 | 9.43E-10 | 9.43E-10 | 4.67E-10 | 1.05E-08 |
| 987 | 257660.96 | 4084550.41 | 6.47E-09 | 8.64E-09 | 1.28E-08 | 1.28E-08 | 7.13E-09 | 1.26E-07 | | 9.82E-10 | 1.32E-08 | 2.00E-09 | 2.00E-09 | 1.10E-09 | 1.92E-09 | | 5.33E-10 | 7.12E-09 | 8.88E-10 | 8.88E-10 | 4.40E-10 | 9.87E-09 |
| 988 | 257636.63 | 4084551.41 | 8.11E-09 | 8.18E-08 | 1.21E-08 | 1.21E-08 | 6.73E-09 | 1.19E-07 | | 9.27E-10 | 1.24E-08 | 1.89E-09 | 1.89E-09 | 1.04E-09 | 1.82E-08 | | 5.04E-10 | 6.73E-09 | 8.39E-10 | 8.39E-10 | 4.15E-10 | 9.32E-09 |
| 989 | 257612.29 | 4084552.41 | 5.79E-09 | 7.73E-08 | 1.14E-08 | 1.14E-08 | 6.38E-09 | 1.12E-07 | | 8.78E-10 | 1.18E-08 | 1.79E-09 | 1.79E-09 | 9.82E-10 | 1.72E-09 | | 4.77E-10 | 6.37E-09 | 7.94E-10 | 7.94E-10 | 3.93E-10 | 8.83E-09 |
| 990 | 257587.96 | 4084553.41 | 5.49E-09 | 7.54E-08 | 1.09E-08 | 1.09E-08 | 6.05E-09 | 1.07E-07 | | 8.34E-10 | 1.12E-08 | 1.69E-09 | 1.89E-09 | 9.32E-10 | 1.63E-08 | | 4.53E-10 | 6.05E-09 | 7.54E-10 | 7.54E-10 | 3.73E-10 | 6.36E-09 |
| 991 | 257563.63 | 4084554.41 | 5.22E-09 | 6.98E-08 | 1.01E-08 | 1.01E-08 | 5.76E-09 | 1.01E-07 | | 7.93E-10 | 1.06E-08 | 1.61E-09 | 1.61E-09 | 8.86E-10 | 1.55E-08 | | 4.31E-10 | 5.75E-09 | 7.17E-10 | 7.17E-10 | 3.55E-10 | 7.97E-09 |
| 992 | 257539.3 | 4084555.41 | 4.98E-09 | 6.65E-08 | 9.83E-09 | 9.83E-09 | 5.48E-09 | 9.66E-08 | | 7.55E-10 | 1.01E-08 | 1.54E-09 | 1.54E-09 | 8.44E-10 | 1.48E-08 | | 4.10E-10 | 5.48E-09 | 6.83E-10 | 6.83E-10 | 3.38E-10 | 7.59E-09 |
| 993 | 258360.73 | 4084430.82 | 2.14E-08 | 2.86E-07 | 4.21E-08 | 4.23E-08 | 2.38E-08 | 4.16E-07 | | 3.25E-09 | 4.38E-08 | 6.61E-09 | 6.61E-09 | 3.83E-09 | 8.37E-08 | | 1.76E-09 | 2.56E-08 | 2.94E-09 | 2.94E-09 | 1.45E-09 | 3.27E-08 |
| 994 | 258383.32 | 4084439.21 | 2.28E-08 | 3.04E-07 | 4.50E-08 | 4.50E-08 | 2.51E-08 | 4.42E-07 | | 3.45E-09 | 4.63E-08 | 7.02E-09 | 7.02E-09 | 3.88E-09 | 8.77E-08 | | 1.88E-09 | 2.51E-08 | 3.13E-09 | 3.13E-09 | 1.55E-09 | 3.47E-08 |
| 995 | 258405.91 | 4084447.57 | 2.41E-08 | 3.22E-07 | 4.77E-08 | 4.77E-08 | 2.68E-08 | 4.68E-07 | | 3.66E-09 | 4.91E-08 | 7.44E-09 | 7.44E-09 | 4.09E-09 | 7.17E-08 | | 1.99E-09 | 2.66E-08 | 3.31E-09 | 3.31E-09 | 1.64E-09 | 3.68E-08 |
| 996 | 258428.51 | 4084455.94 | 2.55E-08 | 3.40E-07 | 5.03E-08 | 5.03E-08 | 2.81E-08 | 4.94E-07 | | 3.86E-09 | 3.18E-08 | 7.86E-09 | 7.86E-09 | 4.32E-09 | 7.57E-08 | | 2.10E-09 | 2.80E-08 | 3.50E-09 | 3.50E-09 | 1.73E-09 | 3.89E-08 |
| 997 | 258451.1 | 4084464.3 | 2.68E-08 | 3.56E-07 | 5.29E-08 | 5.29E-08 | 2.95E-08 | 5.20E-07 | | 4.06E-09 | 3.45E-08 | 8.26E-09 | 8.26E-09 | 4.54E-09 | 7.96E-08 | | 2.21E-09 | 2.95E-08 | 3.67E-09 | 3.67E-09 | 1.82E-09 | 4.08E-08 |
| 998 | 258473.69 | 4084477.67 | 2.81E-08 | 3.75E-07 | 5.54E-08 | 5.54E-08 | 3.09E-08 | 5.43E-07 | | 4.26E-09 | 5.71E-08 | 6.66E-09 | 8.66E-09 | 4.76E-09 | 8.34E-08 | | 2.31E-09 | 3.09E-08 | 3.85E-09 | 3.85E-09 | 1.91E-09 | 4.28E-08 |
| 999 | 258496.28 | 4084481.03 | 2.93E-08 | 3.91E-07 | 5.79E-08 | 5.79E-08 | 3.23E-08 | 5.69E-07 | | 4.45E-09 | 5.96E-08 | 9.04E-09 | 9.04E-09 | 4.97E-09 | 8.71E-08 | | 2.42E-09 | 3.23E-08 | 4.02E-09 | 4.02E-09 | 1.99E-09 | 4.47E-08 |
| 1000 | 258518.87 | 4084489.39 | 3.05E-08 | 4.07E-07 | 6.03E-08 | 6.03E-08 | 3.36E-08 | 5.92E-07 | | 4.63E-09 | 8.20E-08 | 9.41E-09 | 9.41E-09 | 5.17E-09 | 9.07E-08 | | 2.51E-09 | 3.36E-08 | 4.19E-09 | 4.19E-09 | 2.07E-09 | 4.83E-09 |
| 1001 | 258541.48 | 4084497.78 | 3.16E-09 | 4.22E-07 | 8.24E-09 | 6.24E-09 | 3.48E-08 | 6.13E-07 | | 4.80E-09 | 8.43E-08 | 9.75E-09 | 9.73E-09 | 5.36E-09 | 9.40E-08 | | 2.60E-09 | 3.48E-08 | 4.34E-09 | 4.34E-08 | 2.15E-09 | 4.82E-08 |
| 1002 | 258564.05 | 4084506.12 | 3.26E-08 | 4.35E-07 | 6.44E-08 | 6.44E-08 | 3.59E-08 | 6.33E-07 | | 4.95E-09 | 6.63E-08 | 1.01E-08 | 1.01E-08 | 5.53E-09 | 9.69E-08 | | 2.69E-09 | 3.59E-08 | 4.48E-08 | 4.48E-09 | 2.22E-08 | 4.97E-08 |
| 1003 | 258585.64 | 4084514.49 | 3.35E-08 | 4.47E-07 | 8.62E-08 | 8.62E-08 | 3.69E-08 | 6.50E-07 | | 5.08E-09 | 6.81E-08 | 1.03E-08 | 1.03E-08 | 5.68E-09 | 9.95E-08 | | 2.76E-09 | 3.69E-08 | 4.60E-09 | 4.60E-08 | 2.27E-09 | 5.11E-08 |
| 1004 | 258609.23 | 4084522.85 | 3.42E-08 | 4.57E-07 | 6.76E-08 | 6.76E-08 | 3.77E-08 | 6.64E-07 | | 5.19E-09 | 6.96E-08 | 1.06E-08 | 1.06E-08 | 5.80E-09 | 1.02E-07 | | 2.82E-09 | 3.77E-08 | 4.70E-09 | 4.70E-09 | 2.32E-09 | 5.22E-08 |
| 1005 | 258631.82 | 4084531.21 | 3.47E-08 | 4.64E-07 | 6.87E-08 | 6.87E-08 | 3.83E-08 | 8.74E-07 | | 5.27E-09 | 7.07E-08 | 1.07E-08 | 1.07E-08 | 5.89E-09 | 1.03E-07 | | 2.36E-09 | 3.83E-08 | 4.77E-09 | 4.77E-09 | 2.36E-09 | 5.30E-08 |
| 1006 | 258654.41 | 4084539.58 | 3.51E-08 | 4.69E-07 | 6.93E-08 | 8.93E-08 | 3.87E-08 | 6.81E-07 | | 5.32E-09 | 7.14E-08 | 1.08E-09 | 1.02E-08 | 5.95E-09 | 1.04E-07 | | 2.89E-09 | 3.86E-08 | 4.82E-09 | 4.82E-09 | 2.38E-09 | 5.35E-08 |
| 1007 | 258677.01 | 4084547.94 | 3.52E-08 | 4.70E-07 | 6.95E-08 | 8.95E-08 | 3.88E-08 | 8.83E-07 | | 5.34E-09 | 7.16E-08 | 1.09E-09 | 1.09E-09 | 5.97E-09 | 1.05E-07 | | 2.90E-09 | 3.87E-08 | 4.83E-09 | 4.83E-09 | 2.39E-09 | 5.37E-08 |
| 1008 | 258709.53 | 4084578.25 | 3.83E-08 | 4.85E-07 | 7.17E-08 | 7.17E-08 | 4.00E-08 | 7.05E-07 | | 5.51E-09 | 7.39E-08 | 1.12E-08 | 1.12E-08 | 8.16E-09 | 1.08E-07 | | 2.99E-09 | 4.00E-08 | 4.98E-08 | 4.96E-09 | 2.47E-09 | 5.54E-08 |
| 1009 | 258719.46 | 4084600.2 | 3.74E-08 | 5.00E-07 | 7.39E-08 | 7.39E-08 | 4.12E-08 | 7.26E-07 | | 5.68E-09 | 7.61E-08 | 1.15E-08 | 1.15E-08 | 6.35E-09 | 1.11E-07 | | 3.08E-09 | 4.12E-08 | 5.14E-09 | 5.14E-09 | 2.54E-09 | 5.71E-08 |
| 1010 | 258729.38 | 4084622.15 | 3.83E-08 | 5.11E-07 | 7.56E-08 | 7.58E-08 | 4.21E-08 | 7.45E-07 | | 5.81E-09 | 7.78E-08 | 1.18E-08 | 1.18E-08 | 8.49E-09 | 1.14E-07 | | 3.15E-09 | 4.21E-08 | 5.25E-09 | 5.25E-09 | 2.60E-09 | 5.84E-08 |
| 1011 | 258739.31 | 4084644.1 | 3.88E-08 | 5.18E-07 | 7.66E-08 | 7.66E-08 | 4.27E-08 | 7.52E-07 | | 5.86E-09 | 7.89E-08 | 1.20E-08 | 1.20E-08 | 8.57E-09 | 1.15E-07 | | 3.19E-09 | 4.27E-08 | 5.32E-09 | 5.32E-09 | 2.83E-09 | 5.91E-08 |
| 1012 | 258749.24 | 4084666.05 | 3.89E-08 | 5.19E-07 | 7.68E-08 | 7.68E-08 | 4.28E-08 | 7.55E-07 | | 5.90E-09 | 7.91E-08 | 1.20E-08 | 1.20E-08 | 6.60E-09 | 1.16E-07 | | 3.21E-09 | 4.28E-08 | 5.34E-09 | 5.34E-09 | 2.64E-09 | 5.83E-08 |
| 1013 | 258759.17 | 4084687.99 | 3.86E-08 | 5.16E-07 | 7.63E-08 | 7.63E-08 | 4.26E-08 | 7.50E-07 | | 5.86E-09 | 7.86E-09 | 1.19E-08 | 1.19E-08 | 6.55E-09 | 1.13E-07 | | 3.18E-09 | 4.25E-08 | 5.30E-09 | 5.30E-09 | 2.83E-09 | 5.89E-08 |
| 1014 | 258789.1 | 4084709.94 | 3.79E-08 | 5.07E-07 | 7.50E-09 | 7.50E-08 | 4.18E-08 | 7.37E-07 | | 5.78E-09 | 7.72E-08 | 1.17E-08 | 1.17E-08 | 6.44E-09 | 1.13E-07 | | 3.13E-09 | 4.18E-08 | 5.21E-09 | 5.21E-09 | 2.58E-09 | 5.79E-08 |
| 1015 | 258779.03 | 4084731.89 | 3.69E-08 | 4.93E-07 | 7.29E-08 | 7.29E-08 | 4.06E-08 | 7.16E-07 | | 5.60E-09 | 7.51E-08 | 1.14E-08 | 1.14E-08 | 6.26E-09 | 1.10E-07 | | 3.04E-09 | 4.06E-08 | 5.06E-09 | 5.06E-09 | 2.51E-09 | 5.83E-08 |
| 1016 | 258788.96 | 4084753.84 | 3.55E-08 | 4.74E-07 | 7.01E-08 | 7.01E-08 | 3.91E-08 | 6.89E-07 | | 5.39E-09 | 7.22E-09 | 1.10E-08 | 1.10E-08 | 6.02E-09 | 1.06E-07 | | 2.93E-09 | 3.91E-08 | 4.87E-09 | 4.87E-09 | 2.41E-09 | 5.42E-08 |
| 1017 | 258798.89 | 4084775.79 | 3.38E-09 | 4.52E-07 | 8.68E-08 | 6.68E-08 | 3.77E-08 | 6.56E-07 | | 5.15E-09 | 6.88E-08 | 1.04E-08 | 1.04E-08 | 5.73E-09 | 1.01E-07 | | 2.79E-09 | 3.72E-08 | 4.64E-09 | 4.64E-09 | 2.30E-09 | 5.16E-08 |
| 1018 | 258808.82 | 4084797.73 | 3.19E-08 | 4.26E-07 | 8.31E-08 | 6.31E-08 | 3.52E-08 | 8.19E-07 | | 4.84E-09 | 6.49E-08 | 9.85E-09 | 9.89E-09 | 5.41E-09 | 9.49E-08 | | 2.63E-09 | 3.51E-08 | 4.38E-09 | 4.38E-09 | 2.17E-09 | 4.87E-08 |
| 1019 | 258818.75 | 4084819.68 | 2.99E-08 | 3.99E-07 | 5.90E-08 | 5.90E-08 | 3.29E-08 | 5.80E-07 | | 4.53E-09 | 6.08E-08 | 9.22E-09 | 9.22E-09 | 5.07E-09 | 8.88E-08 | | 2.46E-09 | 3.29E-08 | 4.10E-09 | 4.10E-09 | 2.03E-09 | 4.56E-08 |
| 1020 | 258828.68 | 4084841.83 | 2.78E-08 | 3.71E-07 | 5.49E-08 | 5.49E-08 | 3.06E-08 | 5.39E-07 | | 4.22E-08 | 5.66E-08 | 8.58E-09 | 8.58E-09 | 4.71E-09 | 8.26E-08 | | 2.29E-09 | 3.06E-08 | 3.82E-09 | 3.82E-09 | 1.89E-09 | 4.24E-08 |
| 1021 | 258838.61 | 4084883.58 | 2.57E-08 | 3.44E-07 | 5.08E-08 | 5.08E-09 | 2.83E-08 | 4.99E-07 | | 3.90E-09 | 5.24E-08 | 7.94E-09 | 7.94E-09 | 4.36E-09 | 7.65E-08 | | 2.12E-09 | 2.83E-08 | 3.53E-09 | 3.53E-09 | 1.75E-09 | 3.93E-08 |
| 1022 | 258848.54 | 4084885.53 | 2.37E-08 | 3.17E-07 | 4.89E-08 | 4.69E-08 | 2.61E-08 | 4.61E-07 | | 3.60E-09 | 4.83E-08 | 7.32E-09 | 7.32E-09 | 4.03E-09 | 7.06E-08 | | 1.96E-09 | 2.61E-09 | 3.26E-09 | 3.26E-09 | 1.81E-09 | 3.62E-08 |
| 1023 | 258338.14 | 4084422.48 | 2.01E-08 | 2.66E-07 | 3.97E-08 | 3.97E-08 | 2.21E-08 | 3.90E-07 | | 3.05E-09 | 4.08E-09 | 8.19E-09 | 8.19E-09 | 3.40E-09 | 5.97E-08 | | 1.65E-09 | 2.21E-08 | 2.76E-09 | 2.76E-09 | 1.36E-09 | 3.06E-08 |
| 1024 | 258313.81 | 4084423.48 | 1.95E-08 | 2.60E-07 | 3.85E-08 | 3.65E-08 | 2.15E-08 | 3.78E-07 | | 2.96E-09 | 3.96E-08 | 8.01E-09 | 6.01E-09 | 3.30E-09 | 5.79E-08 | | 1.61E-09 | 2.14E-08 | 2.67E-09 | 2.67E-09 | 1.32E-09 | 2.97E-08 |
| 1025 | 258289.48 | 4084424.48 | 1.88E-08 | 2.52E-07 | 3.72E-08 | 3.72E-08 | 2.08E-08 | 3.66E-07 | | 2.86E-09 | 3.84E-08 | 5.82E-09 | 5.82E-09 | 3.20E-09 | 5.60E-08 | | 1.55E-09 | 2.08E-08 | 2.59E-09 | 2.59E-09 | 1.28E-09 | 2.88E-08 |
| 1028 | 258265.15 | 4084475.48 | 1.82E-08 | 2.43E-07 | 3.59E-08 | 3.59E-08 | 2.00E-08 | 3.33E-07 | | 2.76E-09 | 3.70E-08 | 5.61

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 823 | 257815.16 | 4084744.24 | 3.95E-08 | 5.27E-07 | 7.80E-08 | 7.80E-08 | 4.35E-08 | 7.66E-07 | 5.99E-09 | 8.03E-08 | 1.22E-06 | 1.22E-08 | 6.70E-09 | 1.17E-07 | 3.25E-09 | 4.35E-08 | 5.42E-09 | 5.42E-09 | 2.68E-09 | 6.02E-08 |
| 824 | 257790.83 | 4084745.24 | 3.55E-08 | 4.74E-07 | 7.01E-08 | 7.01E-08 | 3.91E-08 | 6.69E-07 | 5.38E-09 | 7.22E-08 | 1.09E-06 | 1.09E-08 | 6.02E-09 | 1.05E-07 | 2.92E-09 | 3.91E-08 | 4.87E-09 | 4.87E-09 | 2.41E-09 | 5.41E-08 |
| 825 | 257266.5 | 4084746.24 | 3.16E-08 | 4.22E-07 | 6.25E-08 | 6.25E-08 | 3.48E-08 | 6.13E-07 | 4.80E-09 | 6.43E-08 | 9.75E-09 | 9.75E-09 | 5.36E-09 | 9.40E-08 | 2.60E-09 | 3.48E-08 | 4.34E-09 | 4.34E-09 | 2.15E-09 | 4.82E-08 |
| 826 | 257242.17 | 4084747.24 | 2.79E-08 | 3.73E-07 | 5.52E-08 | 5.52E-08 | 3.08E-08 | 5.42E-07 | 4.24E-09 | 5.68E-08 | 8.62E-09 | 8.62E-09 | 4.74E-09 | 8.31E-08 | 2.30E-09 | 3.08E-08 | 3.84E-09 | 3.84E-09 | 1.90E-09 | 4.26E-08 |
| 827 | 257217.84 | 4084746.24 | 2.46E-08 | 3.28E-07 | 4.86E-08 | 4.86E-08 | 2.71E-08 | 4.72E-07 | 3.73E-09 | 5.00E-08 | 7.58E-09 | 7.58E-09 | 4.17E-09 | 7.31E-08 | 2.03E-09 | 2.71E-08 | 3.37E-09 | 3.37E-09 | 1.67E-09 | 3.75E-08 |
| 628 | 257693.51 | 4084749.24 | 2.16E-08 | 2.88E-07 | 4.26E-08 | 4.26E-08 | 2.38E-08 | 4.19E-07 | 3.27E-09 | 4.39E-08 | 6.86E-09 | 6.66E-09 | 3.66E-09 | 6.41E-08 | 1.78E-09 | 2.38E-08 | 2.96E-09 | 2.96E-09 | 1.47E-09 | 3.29E-08 |
| 829 | 257669.17 | 4084750.24 | 1.90E-08 | 2.54E-07 | 3.75E-08 | 3.75E-08 | 2.09E-08 | 3.69E-07 | 2.88E-09 | 3.86E-08 | 5.86E-09 | 5.86E-09 | 3.22E-09 | 5.64E-08 | 1.56E-09 | 2.09E-08 | 2.61E-09 | 2.81E-09 | 1.29E-09 | 2.90E-08 |
| 830 | 257644.84 | 4084751.24 | 1.68E-08 | 2.24E-07 | 3.32E-08 | 3.32E-08 | 1.85E-08 | 3.28E-07 | 2.55E-09 | 3.42E-08 | 5.16E-09 | 5.16E-09 | 2.85E-09 | 5.00E-08 | 1.38E-09 | 1.65E-08 | 2.31E-09 | 2.31E-09 | 1.14E-09 | 2.56E-08 |
| 831 | 257620.51 | 4084752.24 | 1.50E-08 | 2.00E-07 | 2.96E-08 | 2.96E-08 | 1.65E-08 | 2.91E-07 | 2.26E-09 | 3.05E-08 | 4.63E-09 | 4.63E-09 | 2.54E-09 | 4.48E-08 | 1.24E-09 | 1.65E-08 | 2.06E-09 | 2.06E-09 | 1.02E-09 | 2.29E-08 |
| 832 | 257596.18 | 4084753.24 | 1.35E-08 | 1.80E-07 | 2.67E-08 | 2.67E-08 | 1.49E-08 | 2.62E-07 | 2.05E-09 | 2.75E-08 | 4.17E-09 | 4.17E-09 | 2.29E-09 | 4.01E-08 | 1.11E-09 | 1.49E-08 | 1.85E-09 | 1.83E-09 | 9.17E-10 | 2.06E-08 |
| 833 | 257571.85 | 4084754.24 | 1.23E-08 | 1.64E-07 | 2.42E-08 | 2.42E-08 | 1.35E-08 | 2.36E-07 | 1.88E-09 | 2.50E-08 | 3.79E-09 | 3.79E-09 | 2.08E-09 | 3.65E-08 | 1.01E-09 | 1.35E-08 | 1.68E-09 | 1.68E-09 | 8.34E-10 | 1.67E-08 |
| 834 | 257547.51 | 4084755.24 | 1.12E-08 | 1.50E-07 | 2.22E-08 | 2.22E-08 | 1.24E-08 | 2.18E-07 | 1.71E-09 | 2.29E-08 | 3.47E-09 | 3.47E-09 | 1.91E-09 | 3.34E-08 | 9.27E-10 | 1.24E-08 | 1.54E-09 | 1.54E-09 | 7.64E-10 | 1.72E-08 |
| 835 | 258371 | 4084680.64 | 6.70E-08 | 8.95E-07 | 1.32E-07 | 1.32E-07 | 7.38E-08 | 1.30E-06 | 1.02E-08 | 1.36E-07 | 2.07E-08 | 2.07E-08 | 1.14E-08 | 1.99E-07 | 5.53E-09 | 7.38E-08 | 9.20E-09 | 9.20E-09 | 4.55E-09 | 1.02E-07 |
| 838 | 258393.59 | 4084689 | 7.01E-08 | 9.37E-07 | 1.39E-07 | 1.39E-07 | 7.73E-08 | 1.36E-06 | 1.06E-08 | 1.43E-07 | 2.16E-08 | 2.16E-08 | 1.19E-08 | 2.08E-07 | 5.78E-09 | 7.72E-08 | 9.63E-09 | 9.63E-09 | 4.76E-09 | 1.07E-07 |
| 837 | 258416.18 | 4084697.36 | 7.30E-08 | 9.75E-07 | 1.44E-07 | 1.44E-07 | 8.04E-08 | 1.42E-06 | 1.11E-08 | 1.49E-07 | 2.25E-06 | 2.25E-08 | 1.24E-08 | 2.17E-07 | 6.02E-09 | 8.04E-08 | 1.00E-08 | 1.00E-08 | 4.96E-09 | 1.11E-07 |
| 838 | 258438.72 | 4084705.73 | 7.56E-08 | 1.01E-06 | 1.49E-07 | 1.49E-07 | 8.33E-08 | 1.47E-06 | 1.15E-08 | 1.54E-07 | 2.33E-08 | 2.33E-08 | 1.28E-08 | 2.25E-07 | 6.23E-09 | 8.32E-08 | 1.04E-08 | 1.04E-08 | 5.14E-09 | 1.15E-07 |
| 839 | 258461.37 | 4084714.09 | 7.77E-08 | 1.04E-06 | 1.54E-07 | 1.54E-07 | 8.36E-08 | 1.51E-06 | 1.16E-08 | 1.58E-07 | 2.40E-08 | 2.40E-08 | 1.32E-08 | 2.31E-07 | 6.40E-09 | 8.55E-08 | 1.07E-08 | 1.07E-08 | 5.28E-09 | 1.19E-07 |
| 840 | 258483.96 | 4084722.46 | 7.91E-08 | 1.06E-07 | 1.56E-07 | 1.56E-07 | 8.72E-08 | 1.54E-06 | 1.20E-08 | 1.61E-07 | 2.44E-08 | 2.44E-08 | 1.34E-08 | 2.35E-07 | 6.52E-09 | 8.71E-08 | 1.09E-08 | 1.09E-08 | 5.38E-09 | 1.21E-07 |
| 841 | 258506.55 | 4084730.82 | 7.96E-08 | 1.06E-08 | 1.57E-07 | 1.57E-07 | 8.77E-08 | 1.55E-06 | 1.21E-08 | 1.62E-07 | 2.46E-08 | 2.46E-06 | 1.35E-08 | 2.37E-07 | 6.56E-09 | 8.76E-08 | 1.09E-08 | 1.09E-08 | 5.41E-09 | 1.21E-07 |
| 842 | 258539.07 | 4084761.13 | 8.35E-08 | 1.12E-08 | 1.65E-07 | 1.85E-07 | 9.20E-08 | 1.62E-06 | 1.27E-08 | 1.70E-07 | 2.58E-08 | 2.56E-08 | 1.42E-08 | 2.48E-07 | 6.89E-09 | 9.20E-08 | 1.15E-08 | 1.15E-08 | 5.68E-09 | 1.27E-07 |
| 843 | 258549 | 4084783.08 | 8.67E-08 | 1.18E-06 | 1.71E-07 | 1.71E-07 | 9.53E-08 | 1.68E-06 | 1.32E-08 | 1.76E-07 | 2.67E-08 | 2.67E-08 | 1.47E-08 | 2.58E-07 | 7.14E-09 | 9.54E-08 | 1.19E-08 | 1.19E-08 | 5.89E-09 | 1.32E-07 |
| 844 | 258558.93 | 4084805.03 | 8.82E-08 | 1.18E-06 | 1.74E-07 | 1.74E-07 | 9.72E-08 | 1.71E-06 | 1.34E-06 | 1.79E-07 | 2.72E-08 | 2.72E-08 | 1.50E-08 | 2.62E-07 | 7.27E-09 | 9.71E-08 | 1.21E-08 | 1.21E-08 | 5.99E-09 | 1.35E-07 |
| 845 | 258568.86 | 4084826.98 | 8.78E-08 | 1.17E-06 | 1.74E-07 | 1.74E-07 | 9.68E-08 | 1.70E-06 | 1.33E-06 | 1.79E-07 | 2.71E-06 | 2.71E-08 | 1.49E-08 | 2.61E-07 | 7.24E-09 | 9.67E-08 | 1.21E-08 | 1.21E-08 | 5.97E-09 | 1.34E-07 |
| 846 | 258578.79 | 4084848.92 | 8.84E-08 | 1.14E-08 | 1.69E-07 | 1.69E-07 | 9.41E-08 | 1.66E-06 | 1.30E-08 | 1.74E-07 | 2.63E-08 | 2.63E-08 | 1.45E-08 | 2.54E-07 | 7.04E-09 | 9.40E-08 | 1.17E-08 | 1.17E-08 | 5.80E-09 | 1.30E-07 |
| 847 | 258588.71 | 4084870.87 | 8.10E-08 | 1.08E-06 | 1.60E-07 | 1.60E-07 | 8.93E-08 | 1.57E-06 | 1.23E-08 | 1.65E-07 | 2.30E-08 | 2.50E-08 | 1.37E-08 | 2.41E-07 | 6.68E-09 | 8.92E-08 | 1.11E-08 | 1.11E-08 | 5.51E-09 | 1.24E-07 |
| 848 | 258598.64 | 4084892.82 | 7.52E-08 | 1.00E-06 | 1.49E-07 | 1.49E-07 | 8.28E-08 | 1.46E-06 | 1.14E-08 | 1.53E-07 | 2.32E-08 | 2.32E-08 | 1.28E-08 | 2.24E-07 | 6.20E-09 | 8.28E-08 | 1.03E-08 | 1.03E-08 | 5.11E-09 | 1.15E-07 |
| 849 | 258348.41 | 4084672.27 | 8.38E-08 | 8.53E-07 | 1.26E-07 | 1.26E-07 | 7.03E-08 | 1.24E-06 | 9.69E-09 | 1.30E-07 | 1.97E-08 | 1.97E-08 | 1.08E-08 | 1.90E-07 | 5.28E-09 | 7.03E-08 | 8.76E-09 | 8.76E-09 | 4.34E-09 | 9.74E-08 |
| 850 | 258324.08 | 4084673.27 | 6.36E-08 | 8.49E-07 | 1.26E-07 | 1.26E-07 | 7.00E-08 | 1.23E-06 | 9.65E-09 | 1.29E-07 | 1.96E-08 | 1.96E-08 | 1.08E-08 | 1.89E-07 | 5.24E-09 | 7.00E-08 | 6.73E-09 | 8.73E-09 | 4.32E-09 | 9.70E-08 |
| 851 | 258299.75 | 4084674.27 | 8.31E-08 | 8.43E-07 | 1.25E-07 | 1.25E-07 | 6.93E-08 | 1.23E-06 | 9.58E-09 | 1.26E-07 | 1.95E-08 | 1.93E-08 | 1.07E-08 | 1.88E-07 | 5.20E-09 | 6.93E-08 | 8.66E-09 | 8.66E-09 | 4.29E-09 | 9.63E-08 |
| 852 | 258275.42 | 4084675.27 | 6.25E-08 | 8.35E-07 | 1.24E-07 | 1.24E-07 | 6.89E-08 | 1.21E-06 | 9.49E-09 | 1.27E-07 | 1.93E-08 | 1.93E-08 | 1.06E-08 | 1.86E-07 | 5.15E-09 | 6.88E-08 | 8.58E-09 | 8.56E-09 | 4.25E-09 | 9.54E-08 |
| 853 | 258251.08 | 4084678.27 | 8.18E-08 | 8.25E-07 | 1.22E-07 | 1.22E-07 | 6.81E-08 | 1.20E-08 | 9.37E-09 | 1.26E-07 | 1.91E-08 | 1.91E-08 | 1.05E-08 | 1.84E-07 | 5.09E-09 | 6.80E-08 | 8.48E-09 | 8.46E-09 | 4.20E-09 | 9.43E-08 |
| 854 | 258226.75 | 4084677.27 | 6.09E-08 | 8.13E-07 | 1.20E-07 | 1.20E-07 | 6.71E-08 | 1.18E-06 | 9.24E-09 | 1.24E-07 | 1.88E-08 | 1.68E-08 | 1.03E-08 | 1.81E-07 | 5.02E-09 | 6.70E-08 | 8.36E-09 | 8.36E-09 | 4.14E-09 | 9.29E-08 |
| 855 | 258202.42 | 4084676.27 | 5.98E-08 | 7.99E-07 | 1.18E-07 | 1.18E-07 | 8.59E-08 | 1.16E-06 | 9.08E-09 | 1.22E-07 | 1.85E-08 | 1.85E-08 | 1.02E-08 | 1.78E-07 | 4.93E-09 | 6.59E-08 | 8.21E-09 | 8.21E-09 | 4.07E-09 | 9.13E-08 |
| 856 | 258178.09 | 4084679.27 | 5.87E-08 | 7.84E-07 | 1.16E-07 | 1.16E-07 | 6.46E-08 | 1.14E-08 | 8.90E-09 | 1.19E-07 | 1.81E-08 | 1.81E-08 | 9.95E-09 | 1.74E-07 | 4.84E-09 | 6.46E-08 | 8.05E-09 | 8.05E-09 | 3.99E-09 | 6.95E-08 |
| 857 | 258153.78 | 4084680.27 | 5.74E-08 | 7.66E-07 | 1.13E-07 | 1.13E-07 | 6.32E-08 | 1.11E-06 | 8.71E-09 | 1.17E-07 | 1.77E-08 | 1.77E-08 | 9.73E-09 | 1.71E-07 | 4.73E-09 | 6.32E-08 | 7.88E-09 | 7.88E-09 | 3.90E-09 | 6.75E-08 |
| 858 | 258179.42 | 4084681.27 | 5.59E-08 | 7.47E-07 | 1.11E-07 | 1.11E-07 | 6.16E-08 | 1.09E-06 | 8.49E-09 | 1.14E-07 | 1.73E-08 | 1.73E-08 | 9.49E-09 | 1.66E-07 | 4.61E-09 | 6.16E-08 | 7.68E-09 | 7.68E-09 | 3.80E-09 | 6.53E-06 |
| 859 | 258105.09 | 4084682.27 | 5.43E-08 | 7.26E-07 | 1.07E-07 | 1.07E-07 | 5.99E-08 | 1.05E-06 | 8.24E-09 | 1.11E-07 | 1.68E-08 | 1.68E-08 | 9.22E-09 | 1.82E-07 | 4.48E-09 | 5.98E-08 | 7.46E-09 | 7.46E-09 | 3.69E-09 | 6.29E-08 |
| 860 | 258080.76 | 4084683.27 | 5.26E-08 | 7.02E-07 | 1.04E-07 | 1.04E-07 | 5.79E-08 | 1.02E-06 | 7.98E-09 | 1.07E-07 | 1.62E-08 | 1.62E-08 | 8.92E-09 | 1.56E-07 | 4.33E-09 | 5.79E-08 | 7.22E-08 | 7.22E-09 | 3.57E-09 | 6.02E-08 |
| 861 | 258056.43 | 4084684.27 | 5.07E-08 | 6.77E-07 | 1.00E-07 | 1.00E-07 | 5.58E-08 | 9.84E-07 | 7.69E-09 | 1.03E-07 | 1.56E-08 | 1.56E-08 | 8.60E-09 | 1.51E-07 | 4.18E-09 | 5.58E-08 | 6.96E-09 | 6.96E-09 | 3.44E-09 | 7.73E-08 |
| 862 | 258032.1 | 4084685.27 | 4.86E-08 | 6.50E-07 | 9.61E-08 | 9.61E-08 | 5.36E-08 | 9.44E-07 | 7.38E-09 | 9.90E-08 | 1.50E-08 | 1.50E-08 | 8.25E-09 | 1.45E-07 | 4.01E-09 | 5.36E-08 | 6.58E-09 | 6.68E-09 | 3.30E-09 | 7.42E-08 |
| 863 | 258007.72 | 4084686.28 | 4.64E-08 | 6.20E-07 | 9.16E-08 | 9.18E-08 | 5.12E-08 | 9.01E-07 | 7.05E-09 | 9.45E-06 | 1.43E-08 | 1.43E-08 | 7.88E-09 | 1.36E-07 | 3.83E-09 | 5.11E-08 | 6.37E-09 | 6.37E-09 | 3.16E-09 | 7.09E-08 |
| 864 | 252983.43 | 4084687.28 | 4.41E-08 | 5.89E-07 | 6.71E-08 | 6.71E-08 | 4.86E-08 | 8.56E-07 | 8.69E-09 | 6.97E-08 | 1.36E-08 | 1.36E-08 | 7.48E-09 | 1.31E-07 | 3.63E-09 | 4.86E-08 | 6.05E-09 | 6.05E-09 | 3.00E-09 | 6.73E-08 |
| 865 | 257959.1 | 4084688.28 | 4.16E-08 | 5.36E-07 | 6.23E-08 | 8.23E-08 | 4.59E-08 | 8.03E-07 | 6.32E-09 | 6.47E-08 | 1.28E-08 | 1.28E-08 | 7.06E-09 | 1.24E-07 | 3.43E-09 | 4.59E-08 | 5.72E-09 | 5.72E-09 | 2.83E-09 | 6.35E-08 |
| 866 | 257934.72 | 4084689.28 | 3.91E-08 | 5.22E-07 | 7.77E-08 | 7.77E-08 | 4.30E-08 | 7.58E-07 | 5.93E-09 | 7.95E-08 | 1.21E-08 | 1.21E-08 | 6.63E-09 | 1.16E-07 | 3.22E-09 | 4.30E-08 | 5.36E-09 | 5.36E-09 | 2.65E-09 | 5.96E-08 |
| 867 | 257910.44 | 4084690.28 | 3.64E-08 | 4.86E-07 | 7.19E-08 | 7.19E-08 | 4.01E-08 | 7.06E-07 | 5.52E-09 | 7.40E-08 | 1.12E-08 | 1.12E-08 | 6.17E-09 | 1.08E-07 | 3.00E-09 | 4.01E-08 | 5.00E-09 | 5.00E-09 | 2.47E-09 | 5.53E-08 |
| 868 | 257886.11 | 4084691.28 | 3.37E-08 | 4.49E-07 | 6.65E-08 | 6.65E-08 | 3.71E-08 | 6.53E-07 | 5.11E-09 | 6.85E-08 | 1.04E-08 | 1.04E-08 | 5.71E-09 | 1.00E-07 | 2.72E-09 | 3.71E-08 | 4.62E-09 | 4.62E-09 | 2.29E-09 | 5.14E-06 |
| 869 | 257661.77 | 4084692.28 | 3.09E-08 | 4.13E-07 | 6.11E-08 | 6.11E-08 | 3.40E-08 | 6.00E-07 | 4.69E-09 | 6.29E-08 | 9.53E-09 | 9.53E-09 | 5.24E-09 | 9.19E-08 | 2.55E-09 | 3.40E-08 | 4.24E-09 | 4.24E-09 | 2.10E-09 | 4.71E-06 |
| 870 | 257837.44 | 4084693.28 | 2.82E-08 | 3.76E-07 | 5.57E-08 | 5.57E-08 | 3.10E-08 | 5.47E-07 | 4.27E-09 | 5.73E-08 | 8.69E-09 | 8.69E-09 | 4.76E-09 | 8.37E-08 | 2.32E-09 | 3.10E-08 | 3.87E-09 | 3.87E-09 | 1.91E-09 | 4.30E-08 |
| 871 | 257813.11 | 4084694.28 | 2.55E-08 | 3.41E-07 | 5.04E-08 | 5.04E-08 | 2.81E-08 | 4.95E-07 | 3.87E-09 | 5.19E-08 | 7.87E-09 | 7.87E-09 | 4.33E-09 | 7.58E-08 | 2.10E-09 | 2.81E-08 | 3.50E-09 | 3.50E-09 | 1.73E-09 | 3.89E-08 |
| 872 | 257788.78 | 4084695.28 | 2.30E-08 | 3.07E-07 | 4.54E-08 | 4.54E-08 | 2.53E-08 | 4.46E-07 | 3.49E-09 | 4.87E-08 | 7.09E-09 | 7.09E-09 | 3.90E-09 | 6.83E-06 | 1.89E-09 | 2.53E-08 | 3.15E-09 | 3.13E-09 | 1.56E-09 | 3.51E-08 |
| 873 | 257284.45 | 4084696.28 | 2.06E-08 | 2.75E-07 | 4.07E-08 | 4.07E-08 | 2.27E-08 | 4.00E-07 | 3.13E-09 | 4.19E-08 | 6.36E-09 | 6.36E-09 | 3.50E-09 | 6.13E-08 | 1.70E-09 | 2.27E-08 | 2.83E-09 | 2.83E-09 | 1.40E-09 | 3.15E-08 |
| 874 | 257240.12 | 4084697.28 | 1.85E-08 | 2.47E-07 | 3.65E-08 | 3.65E-08 | 2.03E-08 | 3.58E-07 | 2.80E-09 | 3.76E-08 | 5.69E-09 | 5.69E-09 | 3.13E-09 | 5.49E-08 | 1.52E-09 | 2.03E-08 | 2.53E-09 | 2.53E-09 | 1.25E-09 | 2.82E-08 |
| 875 | 257215.78 | 4084698.28 | 1.65E-08 | 2.21E-07 | 3.27E-08 | 3.27E-08 | 1.82E-08 | 3.21E-07 | 2.51E-09 | 3.36E-08 | 5.10E-09 | 5.10E-09 | 2.80E-09 | 4.92E-08 | 1.36E-09 | 1.82E-08 | 2.27E-09 | 2.27E-09 | 1.12E-09 | 2.52E-08 |
| 876 | 257691.45 | 4084699.28 | 1.48E-08 | 1.98E-07 | 2.93E-06 | 2.93E-08 | 1.64E-08 | 2.88E-07 | 2.25E-09 | 3.02E-08 | 4.58E-09 | 4.58E-09 | 2.52E-09 | 4.41E-08 | 1.22E-09 | 1.63E-08 | 2.04E-09 | 2.04E-09 | 1.01E-09 | 2.26E-08 |
| 872 | 257667.12 | 4084700.28 | 1.34E-08 | 1.79E-07 | 2.65E-08 | 2.65E-08 | 1.47E-08 | 2.60E-07 | 2.03E-09 | 2.72E-08 | 4.13E-09 | 4.13E-09 | 2.27E-09 | 3.98E-06 | 1.10E-09 | 1.47E-08 | 1.84E-09 | 1.84E-09 | 9.10E-10 | 2.04E-08 |
| 878 | 257842.79 | 4084701.28 | 1.21E-08 | 1.62E-07 | 2.40E-08 | 2.40E-08 | 1.34E-08 | 2.36E-07 | 1.84E-09 | 2.47E-08 | 3.75E-09 | 3.75E-09 | 2.06E-09 | 3.61E-08 | 1.00E-09 | 1.34E-08 | 1.67E-09 | 1.67E-09 | 8.25E-10 | 1.85E-08 |
| 879 | 257618.46 | 4084702.28 | 1.11E-08 | 1.48E-07 | 2.19E-08 | 2.19E-08 | 1.22E-08 | 2.15E-07 | 1.68E-09 | 2.26E-08 | 3.42E-09 | 3.42E-09 | 1.88E-09 | 3.30E-06 | 9.14E-10 | 1.22E-08 | 1.52E-09 | 1.52E-09 | 7.53E-10 | 1.69E-08 |
| 880 | 257594.12 | 4084703.28 | 1.02E-08 | 1.36E-07 | 2.01E-08 | 2.01E-08 | 1.12E-08 | 1.98E-07 | 1.55E-09 | 2.07E-08 | 3.14E-09 | 3.14E-09 | 1.73E-09 | 3.03E-08 | 6.40E-10 | 1.12E-08 | 1.40E-09 | 1.40E-09 | 6.92E-10 | 1.55E-08 |
| 881 | 257569.79 | 4084704.28 | 9.42E-09 | 1.26E-07 | 1.86E-08 | 1.86E-08 | 1.04E-08 | 1.83E-07 | 1.43E-09 | 1.92E-08 | 2.91E-09 | 2.91E-09 | 1.60E-09 | 2.80E-08 | 7.76E-10 | 1.04E-08 | 1.29E-09 | 1.29E-09 | 6.40E-10 | 1.44E-08 |
| 882 | 257545.46 | 4084705.28 | 8.75E-09 | 1.17E-07 | 1.73E-08 | 1.73E-08 | 9.64E-09 | 1.70E-07 | 1.33E-09 | 1.78E-08 | 2.70E-09 | 2.70E-09 | 1.48E-09 | 2.60E-08 | 7.22E-10 | 9.64E-09 | 1.20E-09 | 1.20E-09 | 5.95E-10 | 1.34E-08 |
| 883 | 258368.04 | 4084630.34 | 5.22E-08 | 6.97E-07 | 1.03E-07 | 1.03E-07 | 5.75E-08 | 1.01E-06 | 7.92E-09 | 1.06E-07 | 1.61E-08 | 1.61E-08 | 8.86E-09 | 1.55E-07 | 4.30E-09 | 5.75E-08 | 7.17E-09 | 7.17E-09 | 3.55E-09 | 7.97E-08 |
| 884 | 258389.73 | 4084638.37 | 5.47E-08 | 7.30E-07 | 1.08E-07 | 1.08E-07 | 6.02E-08 | 1.06E-06 | 8.30E-09 | 1.11E-07 | 1.69E-08 | 1.69E-08 | 9.27E-09 | 1.63E-07 | 4.51E-09 | 6.02E-08 | 7.50E-09 | 7.50E-09 | 3.71E-09 | 8.34E-08 |
| 885 | 258411.42 | 4084646.4 | 5.70E-08 | 7.62E-07 | 1.13E-07 | 1.13E-07 | 8.28E-08 | 1.11E-06 | 8.85E-09 | 1.16E-07 | 1.76E-08 | 1.76E-08 | 9.67E-09 | 1.70E-07 | 4.70E-09 | 6.28E-08 | 7.83E-09 | 7.63E-09 | 3.87E-09 | 8.70E-08 |
| 886 | 258433.11 | 4084654.43 | 5.92E-08 | 7.91E-07 | 1.17E-07 | 1.17E-07 | 8.53E-08 | 1.15E-06 | 8.99E-09 | 1.21E-07 | 1.83E-08 | 1.83E-08 | 1.00E-08 | 1.76E-07 | 4.88E-09 | 6.52E-08 | 8.13E-09 | 8.13E-09 | 4.03E-09 | 9.04E-08 |
| 887 | 258454.79 | 4084662.46 | 6.12E-08 | 8.18E-07 | 1.21E-07 | 1.21E-07 | 6.75E-08 | 1.19E-06 | 9.30E-09 | 1.25E-07 | 1.89E-08 | 1.89E-08 | 1.04E-08 | 1.82E-07 | 5.05E-09 | 6.74E-08 | 8.41E-09 | 8.41E-09 | 4.16E-09 | 9.35E-08 |
| 888 | 258476.48 | 4084670.49 | 6.30E-08 | 8.41E-07 | 1.24E-07 | 1.24E-07 | 6.94E-08 | 1.22E-06 | 9.56E-09 | 1.28E-07 | 1.94E-08 | 1.94E-08 | 1.07E-08 | 1.87E-07 | 5.19E-09 | 8.93E-08 | 8.65E-09 | 8.63E-09 | 4.28E-09 | 9.61E-08 |
| 889 | 258498.17 | 4084628.52 | 6.43E-08 | 8.59E-07 | 1.27E-07 | 1.27E-07 | 7.09E-08 | 1.25E-06 | 9.76E-09 | 1.31E-07 | 1.98E-08 | 1.98E-06 | 1.09E-08 | 1.91E-07 | 5.30E-09 | 7.08E-08 | 8.83E-09 | 8.83E-09 | 4.37E-09 | 9.81E-08 |
| 890 | 258519.86 | 4084686.55 | 6.52E-08 | 8.70E-07 | 1.29E-07 | 1.79E-07 | 7.18E-08 | 1.28E-06 | 9.89E-09 | 1.33E-07 | 2.01E-08 | 2.01E-08 | 1.11E-08 | 1.94E-07 | 5.37E-09 | 7.17E-08 | 8.94E-09 | 8.94E-09 | 4.43E-09 | 9.94E-08 |
| 891 | 258541.54 | 4084694.56 | 6.54E-08 | 8.73E-07 | 1.29E-07 | 1.29E-07 | 7.20E-08 | 1.27E-06 | 9.92E-09 | 1.33E-07 | 2.02E-08 | 2.02E-08 | 1.11E-08 | 1.94E-07 | 5.39E-09 | 7.20E-08 | 6.98E-09 | 8.98E-09 | 4.44E-09 | 9.98E-08 |
| 892 | 258572.76 | 4084723.68 | 6.61E-08 | 9.10E-07 | 1.35E-07 | 1.35E-07 | 7.51E-08 | 1.32E-06 | 1.03E-08 | 1.39E-07 | 2.10E-08 | 2.10E-08 | 1.16E-08 | 2.03E-07 | 5.62E-09 | 7.50E-08 | 9.35E-09 | 9.35E-09 | 4.63E-09 | 1.04E-07 |
| 893 | 258582.29 | 4084744.75 | 7.06E-08 | 9.44E-07 | 1.40E-07 | 1.40E-07 | 7.78E-08 | 1.37E-06 | 1.07E-08 | 1.44E-07 | 2.18E-08 | 2.16E-08 | 1.20E-08 | 2.10E-07 | 5.82E-09 | 7.78E-08 | 9.70E-09 | 9.70E-09 | 4.80E-09 | 1.08E-07 |
| 894 | 258591.83 | 4084765.82 | 7.19E-08 | 9.60E-07 | 1.42E-07 | 1.42E-07 | 7.92E-08 | 1.40E-06 | 1.09E-06 | 1.46E-07 | 2.22E-08 | 2.22E-08 | 1.22E-08 | 2.14E-07 | 5.93E-09 | 7.92E-08 | 9.87E-09 | 9.87E-09 | 4.89E-09 | 1.10E-07 |
| 895 | 258601.36 | 4084786.89 | 7.22E-08 | 9.65E-07 | 1.43E-07 | 1.43E-07 | 7.96E-08 | 1.40E-06 | 1.10E-08 | 1.47E-07 | 2.23E-08 | 2.23E-08 | 1.23E-08 | 2.15E-07 | 5.95E-09 | 7.95E-08 | 9.92E-09 | 9.92E-09 | 4.91E-09 | 1.10E-07 |
| 896 | 258610.89 | 4084807.96 | 7.13E-08 | 9.52E-07 | 1.41E-07 | 1.41E-07 | 7.85E-08 | 1.38E-06 | 1.08E-08 | 1.45E-07 | 2.70E-08 | 2.20E-08 | 1.21E-08 | 2.12E-07 | 5.88E-09 | 7.85E-08 | 9.79E-09 | 9.79E-09 | 4.84E-09 | 1.09E-07 |
| 897 | 258620.42 | 4084829.03 | 6.91E-08 | 9.23E-07 | 1.37E-07 | 1.37E-07 | 7.61E-08 | 1.34E-06 | 1.05E-08 | 1.41E-07 | 2.13E-08 | 2.13E-08 | 1.17E-08 | 2.05E-07 | 5.69E-09 | 7.61E-08 | 9.48E-09 | 9.48E-09 | 4.69E-09 | 1.05E-07 |
| 898 | 258629.96 | 4084850.1 | 6.57E-08 | 8.78E-07 | 1.30E-07 | 1.30E-07 | 7.24E-08 | 1.28E-06 | 9.98E-09 | 1.34E-07 | 2.03E-08 | 2.03E-08 | 1.11E-08 | 1.95E-07 | 5.42E-09 | 7.24E-08 | 9.02E-09 | 9.02E-09 | 4.47E-09 | 1.00E-07 |
| 899 | 258639.49 | 4084871.17 | 8.15E-08 | 8.21E-07 | 1.22E-07 | 1.22E-07 | 6.79E-08 | 1.19E-06 | 9.33E-09 | 1.25E-07 | 1.90E-08 | 1.90E-08 | 1.04E-08 | 1.63E-07 | 5.07E-09 | 6.77E-08 | 6.44E-09 | 6.44E-09 | 4.18E-09 | 9.36E-08 |
| 900 | 258549.02 | 4084892.24 | 5.87E-08 | 7.57E-07 | 1.12E-07 | 1.32E-07 | 6.24E-08 | 1.10E-06 | 8.60E-09 | 1.15E-07 | 1.75E-08 | 1.75E-08 | 9.62E-09 | 1.69E-07 | 4.67E-09 | 6.24E-08 | 7.78E-09 | 7.78E-09 | 3.85E-09 | 8.65E-08 |
| 901 | 258346.38 | 4084622.31 | 4.97E-08 | 6.64E-07 | 9.82E-08 | 9.82E-08 | 5.48E-08 | 9.65E-07 | 7.54E-09 | 1.01E-07 | 1.53E-08 | 1.53E-08 | 8.43E-09 | 1.48E-07 | 4.10E-09 | 5.47E-08 | 6.82E-09 | 6.82E-09 | 3.36E-09 | 7.58E-08 |
| 902 | 258322.03 | 4084623.31 | 4.92E-08 | 6.57E-07 | 9.73E-06 | 9.73E-08 | 5.42E-08 | 9.55E-07 | 7.47E-09 | 1.00E-07 | 1.52E-08 | 1.52E-08 | 8.35E-09 | 1.46E-07 | 4.06E-09 | 5.42E-08 | 6.76E-09 | 6.76E-09 | 3.34E-09 | 7.51E-08 |
| 903 | 258297.89 | 4084624.31 | 4.86E-08 | 6.49E-07 | 9.61E-08 | 9.61E-08 | 5.36E-08 | 9.44E-07 | 7.38E-09 | 9.89E-08 | 1.50E-08 | 1.50E-06 | 8.25E-09 | 1.45E-07 | 4.01E-09 | 5.33E-08 | 6.67E-09 | 6.67E-09 | 3.30E-09 | 7.42E-08 |
| 904 | 258273.38 | 4084625.31 | 4.79E-08 | 6.40E-07 | 9.47E-08 | 9.47E-08 | 5.28E-08 | 9.30E-07 | 7.27E-09 | 9.75E-08 | 1.48E-08 | 1.48E-06 | 8.13E-09 | 1.42E-07 | 3.95E-09 | 5.27E-08 | 6.58E-09 | 6.58E-09 | 3.26E-09 | 7.31E-08 |
| 905 | 258249.03 | 4084626.31 | 4.71E-08 | 6.29E-07 | 9.30E-06 | 9.30E-08 | 5.18E-08 | 9.13E-07 | 7.14E-09 | 9.56E-08 | 1.45E-08 | 1.45E-08 | 7.98E-09 | 1.40E-07 | 3.88E-09 | 5.18E-08 | 6.46E-09 | 6.46E-09 | 3.20E-09 | 7.18E-08 |
| 906 | 258224.7 | 4084627.31 | 4.61E-08 | 6.16E-07 | 9.11E-08 | 9.31E-08 | 5.08E-08 | 6.95E-07 | 7.00E-09 | 9.39E-08 | 1.42E-08 | 1.42E-08 | 7.82E-09 | 1.37E-07 | 3.80E-09 | 5.08E-08 | 6.33E-09 | 6.33E-09 | 3.13E-09 | 7.04E-08 |
| 907 | 258200.37 | 4084628.32 | 4.51E-08 | 6.02E-07 | 6.90E-08 | 8.90E-08 | 4.96E-08 | 8.75E-07 | 6.84E-09 | 9.17E-08 | 1.39E-08 | 1.39E-08 | 7.64E-09 | 1.34E-07 | 3.71E-09 | 4.96E-08 | 6.19E-09 | 6.19E-09 | 3.06E-09 | 6.88E-08 |
| 908 | 258178.03 | 4084629.32 | 4.39E-08 | 5.86E-07 | 6.67E-08 | 8.67E-08 | 4.83E-08 | 8.52E-07 | 8.66E-09 | 6.93E-08 | 1.35E-08 | 1.35E-08 | 7.44E-09 | 1.30E-07 | 3.62E-09 | 4.83E-08 | 6.02E-09 | 6.02E-09 | 2.98E-09 | 6.70E-08 |
| 909 | 258151.7 | 4084630.32 | 4.28E-08 | 5.69E-07 | 8.42E-08 | 8.42E-08 | 4.69E-08 | 8.27E-07 | 6.47E-09 | 8.67E-08 | 1.31E-08 | 1.31E-08 | 7.23E-09 | 1.27E-07 | 3.51E-09 | 4.69

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 469 | 259272.08 | 4086025.6E | 2.37E-09 | 3.17E-08 | 4.69E-09 | 4.69E-09 | 2.62E-09 | 4.61E-09 | 3.60E-10 | 4.83E-09 | 7.33E-10 | 7.33E-10 | 4.03E-10 | 7.06E-09 | 1.96E-10 | 2.61E-09 | 3.26E-10 | 3.26E-10 | 1.61E-10 | 3.62E-09 |
| 470 | 259249.71 | 4086036.02 | 2.40E-09 | 3.20E-08 | 4.74E-09 | 4.74E-09 | 2.64E-09 | 4.66E-08 | 3.64E-10 | 4.88E-09 | 7.40E-10 | 7.40E-10 | 4.07E-10 | 7.13E-09 | 1.98E-10 | 2.64E-09 | 3.29E-10 | 3.29E-10 | 1.63E-10 | 3.68E-09 |
| 471 | 259227.34 | 4086046.37 | 2.43E-09 | 3.24E-08 | 4.79E-09 | 4.79E-09 | 2.67E-09 | 4.71E-08 | 3.68E-10 | 4.94E-09 | 7.48E-10 | 7.48E-10 | 4.11E-10 | 7.21E-09 | 2.00E-10 | 2.67E-09 | 3.33E-10 | 3.33E-10 | 1.65E-10 | 3.70E-09 |
| 472 | 239204.97 | 4086056.71 | 2.45E-09 | 3.27E-08 | 4.84E-09 | 4.84E-09 | 2.70E-09 | 4.76E-08 | 3.72E-10 | 4.99E-09 | 7.56E-10 | 7.56E-10 | 4.16E-10 | 7.29E-09 | 2.02E-10 | 2.70E-09 | 3.36E-10 | 3.36E-10 | 1.67E-10 | 3.74E-09 |
| 473 | 259182.6 | 4086067.06 | 2.48E-09 | 3.31E-08 | 4.89E-09 | 4.89E-09 | 2.73E-09 | 4.80E-08 | 3.76E-10 | 5.04E-09 | 7.64E-10 | 7.54E-10 | 4.20E-10 | 7.36E-09 | 2.04E-10 | 2.77E-09 | 3.40E-10 | 3.40E-10 | 1.68E-10 | 3.78E-09 |
| 474 | 259160.23 | 4086077.41 | 2.50E-09 | 3.34E-08 | 4.94E-09 | 4.94E-09 | 2.75E-09 | 4.85E-08 | 3.79E-10 | 5.09E-09 | 7.71E-10 | 7.71E-10 | 4.24E-10 | 7.43E-09 | 2.06E-10 | 2.75E-09 | 3.43E-10 | 3.43E-10 | 1.70E-10 | 3.81E-09 |
| 475 | 259137.86 | 4086087.75 | 2.53E-09 | 3.36E-08 | 5.00E-09 | 5.00E-09 | 2.79E-09 | 4.91E-08 | 3.84E-10 | 5.16E-09 | 7.80E-10 | 7.80E-10 | 4.29E-10 | 7.52E-09 | 2.08E-10 | 2.78E-09 | 3.47E-10 | 3.47E-10 | 1.72E-10 | 3.86E-09 |
| 476 | 259115.49 | 4086098.1 | 2.56E-09 | 3.42E-08 | 5.06E-09 | 5.06E-09 | 2.62E-09 | 4.97E-08 | 3.89E-10 | 5.21E-09 | 7.90E-10 | 7.90E-10 | 4.34E-10 | 7.61E-09 | 2.11E-10 | 2.82E-09 | 3.51E-10 | 3.51E-10 | 1.74E-10 | 3.91E-09 |
| 477 | 259093.11 | 4086108.45 | 2.59E-09 | 3.46E-08 | 5.12E-09 | 5.12E-09 | 2.86E-09 | 5.03E-08 | 3.93E-10 | 5.28E-09 | 8.00E-10 | 6.00E-10 | 4.40E-10 | 7.71E-09 | 2.14E-10 | 2.85E-09 | 3.56E-10 | 3.56E-10 | 1.76E-10 | 3.96E-09 |
| 478 | 259070.74 | 4086118.79 | 2.63E-09 | 3.51E-08 | 5.19E-09 | 5.19E-09 | 2.90E-09 | 5.10E-08 | 3.99E-10 | 5.36E-09 | 8.11E-10 | 6.11E-10 | 4.46E-10 | 7.82E-09 | 2.17E-10 | 2.89E-09 | 3.61E-10 | 3.61E-10 | 1.79E-10 | 4.01E-09 |
| 479 | 259048.37 | 4086129.14 | 2.67E-09 | 3.56E-08 | 5.27E-09 | 5.27E-09 | 2.94E-09 | 5.18E-08 | 4.05E-10 | 5.43E-09 | 8.23E-10 | 8.23E-10 | 4.52E-10 | 7.93E-09 | 2.20E-10 | 2.94E-09 | 3.66E-10 | 3.66E-10 | 1.81E-10 | 4.07E-09 |
| 480 | 259026 | 4086139.49 | 2.71E-09 | 3.62E-08 | 5.36E-09 | 5.36E-09 | 2.99E-09 | 5.27E-08 | 4.12E-10 | 5.52E-09 | 8.37E-10 | 6.37E-10 | 4.60E-10 | 8.07E-09 | 2.24E-10 | 2.99E-09 | 3.73E-10 | 3.73E-10 | 1.84E-10 | 4.14E-09 |
| 481 | 259003.63 | 4086149.83 | 2.76E-09 | 3.69E-08 | 5.46E-09 | 5.46E-09 | 3.05E-09 | 5.37E-08 | 4.20E-10 | 5.63E-09 | 8.53E-10 | 8.53E-10 | 4.69E-10 | 6.22E-09 | 2.28E-10 | 3.04E-09 | 3.80E-10 | 3.80E-10 | 1.88E-10 | 4.22E-09 |
| 482 | 258981.26 | 4086160.18 | 2.62E-09 | 3.77E-08 | 5.58E-09 | 5.58E-09 | 3.11E-09 | 5.48E-08 | 4.26E-10 | 5.74E-09 | 8.71E-10 | 8.71E-10 | 4.79E-10 | 6.39E-09 | 2.33E-10 | 3.11E-09 | 3.87E-10 | 3.87E-10 | 1.92E-10 | 4.31E-09 |
| 483 | 258958.89 | 4086170.52 | 2.89E-09 | 3.86E-08 | 5.70E-09 | 5.70E-09 | 3.18E-09 | 5.60E-08 | 4.38E-10 | 5.87E-09 | 8.90E-10 | 6.90E-10 | 4.89E-10 | 8.56E-09 | 2.38E-10 | 3.18E-09 | 3.96E-10 | 3.96E-10 | 1.96E-10 | 4.40E-09 |
| 484 | 258936.52 | 4086180.87 | 2.95E-09 | 3.94E-08 | 5.83E-09 | 5.83E-09 | 3.25E-09 | 5.73E-08 | 4.48E-10 | 6.01E-09 | 9.11E-10 | 9.11E-10 | 5.01E-10 | 6.78E-09 | 2.43E-10 | 3.25E-09 | 4.05E-10 | 4.05E-10 | 2.01E-10 | 4.50E-09 |
| 485 | 258914.15 | 4086191.22 | 3.02E-09 | 4.03E-08 | 5.97E-09 | 5.97E-09 | 3.33E-09 | 5.86E-08 | 4.58E-10 | 6.15E-09 | 9.32E-10 | 9.32E-10 | 5.12E-10 | 8.98E-09 | 2.49E-10 | 3.33E-09 | 4.15E-10 | 4.15E-10 | 2.05E-10 | 4.61E-09 |
| 486 | 258891.77 | 4086201.56 | 3.09E-09 | 4.12E-08 | 6.10E-09 | 6.10E-09 | 3.40E-09 | 5.99E-08 | 4.66E-10 | 6.28E-09 | 9.52E-10 | 9.52E-10 | 5.24E-10 | 9.12E-09 | 2.54E-10 | 3.40E-09 | 4.24E-10 | 4.24E-10 | 2.10E-10 | 4.71E-09 |
| 487 | 258869.4 | 4086211.91 | 3.15E-09 | 4.21E-08 | 6.23E-09 | 6.23E-09 | 3.47E-09 | 6.12E-08 | 4.78E-10 | 6.41E-09 | 9.77E-10 | 9.77E-10 | 5.34E-10 | 9.37E-09 | 2.60E-10 | 3.47E-09 | 4.32E-10 | 4.32E-10 | 2.14E-10 | 4.81E-09 |
| 488 | 258847.03 | 4086222.26 | 3.20E-09 | 4.28E-08 | 6.33E-09 | 6.33E-09 | 3.53E-09 | 6.22E-08 | 4.86E-10 | 6.32E-09 | 9.89E-10 | 9.89E-10 | 5.44E-10 | 9.53E-09 | 2.64E-10 | 3.53E-09 | 4.40E-10 | 4.40E-10 | 2.16E-10 | 4.89E-09 |
| 489 | 258824.66 | 4086232.6 | 3.25E-09 | 4.34E-08 | 6.43E-09 | 6.43E-09 | 3.58E-09 | 6.31E-08 | 4.94E-10 | 6.62E-09 | 1.00E-09 | 1.00E-09 | 5.52E-10 | 9.67E-09 | 2.68E-10 | 3.58E-09 | 4.47E-10 | 4.47E-10 | 2.21E-10 | 4.96E-09 |
| 490 | 258802.29 | 4086242.95 | 3.29E-09 | 4.40E-08 | 6.50E-09 | 6.50E-09 | 3.63E-09 | 6.39E-08 | 5.00E-10 | 6.70E-09 | 1.02E-09 | 1.02E-09 | 3.58E-10 | 9.79E-09 | 2.71E-10 | 3.62E-09 | 4.52E-10 | 4.52E-10 | 2.24E-10 | 5.02E-09 |
| 491 | 258779.92 | 4086253.3 | 3.32E-09 | 4.44E-08 | 6.57E-09 | 6.57E-09 | 3.66E-09 | 6.45E-08 | 5.04E-10 | 6.76E-09 | 1.03E-09 | 1.03E-09 | 5.64E-10 | 9.88E-09 | 2.74E-10 | 3.66E-09 | 4.56E-10 | 4.56E-10 | 2.26E-10 | 5.07E-09 |
| 492 | 258757.55 | 4086263.64 | 3.35E-09 | 4.47E-08 | 6.62E-09 | 6.82E-09 | 3.69E-09 | 6.50E-08 | 5.08E-10 | 6.81E-09 | 1.03E-09 | 1.03E-09 | 5.68E-10 | 9.96E-09 | 2.76E-10 | 3.69E-09 | 4.60E-10 | 4.60E-10 | 2.28E-10 | 5.11E-09 |
| 493 | 258735.16 | 4086277.99 | 3.37E-09 | 4.50E-08 | 6.66E-09 | 6.66E-09 | 3.71E-09 | 6.56E-08 | 5.12E-10 | 6.85E-09 | 1.04E-09 | 1.04E-09 | 5.77E-10 | 1.00E-08 | 2.78E-10 | 3.71E-09 | 4.63E-10 | 4.63E-10 | 2.29E-10 | 5.15E-09 |
| 494 | 258712.61 | 4086284.33 | 3.39E-09 | 4.53E-08 | 6.70E-09 | 6.70E-09 | 3.74E-09 | 6.58E-08 | 5.15E-10 | 6.90E-09 | 1.05E-09 | 1.05E-09 | 5.75E-10 | 1.01E-08 | 2.80E-10 | 3.73E-09 | 4.66E-10 | 4.68E-10 | 2.30E-10 | 5.16E-09 |
| 495 | 258690.43 | 4086294.68 | 3.41E-09 | 4.56E-08 | 6.74E-09 | 6.74E-09 | 3.76E-09 | 6.62E-08 | 5.18E-10 | 6.94E-09 | 1.05E-09 | 1.05E-09 | 5.79E-10 | 1.01E-08 | 2.81E-10 | 3.76E-09 | 4.68E-10 | 4.68E-10 | 2.32E-10 | 5.21E-09 |
| 496 | 258668.06 | 4086305.03 | 3.44E-09 | 4.59E-08 | 6.79E-09 | 6.79E-09 | 3.78E-09 | 6.67E-08 | 5.21E-10 | 6.99E-09 | 1.06E-09 | 1.06E-09 | 5.83E-10 | 1.02E-08 | 2.83E-10 | 3.78E-09 | 4.72E-10 | 4.72E-10 | 2.33E-10 | 5.24E-09 |
| 497 | 258643.69 | 4086315.37 | 3.46E-09 | 4.62E-08 | 6.64E-09 | 6.84E-09 | 3.81E-09 | 6.72E-08 | 5.25E-10 | 7.04E-09 | 1.07E-09 | 1.07E-09 | 5.87E-10 | 1.03E-08 | 2.85E-10 | 3.81E-09 | 4.75E-10 | 4.75E-10 | 2.35E-10 | 5.28E-09 |
| 498 | 258623.32 | 4086325.72 | 3.49E-09 | 4.66E-08 | 6.90E-09 | 6.90E-09 | 3.84E-09 | 6.77E-08 | 5.30E-10 | 7.10E-09 | 1.08E-09 | 1.08E-09 | 5.92E-10 | 1.04E-08 | 2.88E-10 | 3.84E-09 | 4.79E-10 | 4.79E-10 | 2.37E-10 | 5.32E-09 |
| 499 | 258600.95 | 4086336.07 | 3.52E-09 | 4.70E-08 | 6.96E-09 | 6.96E-09 | 3.88E-09 | 6.84E-08 | 5.35E-10 | 7.17E-09 | 1.09E-09 | 1.09E-09 | 5.97E-10 | 1.05E-08 | 2.90E-10 | 3.83E-09 | 4.84E-10 | 4.84E-10 | 2.39E-10 | 5.37E-09 |
| 500 | 258578.58 | 4086346.41 | 3.56E-09 | 4.75E-08 | 7.03E-09 | 7.03E-09 | 3.92E-09 | 6.91E-08 | 5.40E-10 | 7.24E-09 | 1.10E-09 | 1.10E-09 | 6.04E-10 | 1.06E-08 | 2.93E-10 | 3.97E-09 | 4.89E-10 | 4.89E-10 | 2.42E-10 | 5.43E-09 |
| 501 | 258556.21 | 4086356.76 | 3.60E-09 | 4.81E-08 | 7.11E-09 | 7.11E-09 | 3.96E-09 | 6.98E-08 | 5.46E-10 | 7.32E-09 | 1.11E-09 | 1.11E-09 | 6.10E-10 | 1.07E-08 | 2.97E-10 | 3.96E-09 | 4.94E-10 | 4.94E-10 | 2.44E-10 | 5.49E-09 |
| 502 | 258533.84 | 4086367.11 | 3.64E-09 | 4.86E-08 | 7.19E-09 | 7.19E-09 | 4.01E-09 | 7.07E-08 | 5.52E-10 | 7.41E-09 | 1.12E-09 | 1.12E-09 | 6.17E-10 | 1.08E-08 | 3.00E-10 | 4.01E-09 | 5.00E-10 | 5.00E-10 | 2.47E-10 | 5.55E-09 |
| 503 | 258511.47 | 4086377.45 | 3.68E-09 | 4.92E-08 | 7.26E-09 | 7.18E-09 | 4.06E-09 | 7.15E-08 | 5.59E-10 | 7.49E-09 | 1.14E-09 | 1.14E-09 | 6.25E-10 | 1.10E-08 | 3.04E-10 | 4.06E-09 | 5.06E-10 | 5.06E-10 | 2.50E-10 | 5.82E-09 |
| 504 | 258489.09 | 4086387.8 | 3.77E-09 | 4.98E-08 | 7.37E-09 | 7.37E-09 | 4.11E-09 | 7.24E-08 | 5.66E-10 | 7.59E-09 | 1.15E-09 | 1.15E-09 | 6.32E-10 | 1.11E-08 | 3.07E-10 | 4.10E-09 | 5.12E-10 | 5.12E-10 | 2.53E-10 | 5.69E-09 |
| 505 | 258466.77 | 4086398.14 | 3.77E-09 | 5.04E-08 | 7.46E-09 | 7.46E-09 | 4.18E-09 | 7.33E-08 | 5.73E-10 | 7.68E-09 | 1.16E-09 | 1.16E-09 | 6.40E-10 | 1.12E-08 | 3.11E-10 | 4.16E-09 | 5.18E-10 | 5.16E-10 | 2.56E-10 | 5.76E-09 |
| 506 | 258444.35 | 4085408.49 | 3.82E-09 | 5.10E-08 | 7.55E-09 | 7.55E-09 | 4.21E-09 | 7.41E-08 | 5.80E-10 | 7.77E-09 | 1.16E-09 | 1.18E-09 | 6.48E-10 | 1.14E-08 | 3.15E-10 | 4.21E-09 | 5.24E-10 | 5.24E-10 | 2.60E-10 | 5.83E-09 |
| 507 | 259663.91 | 4085082.19 | 3.50E-09 | 5.07E-08 | 7.51E-09 | 7.51E-09 | 4.19E-09 | 7.37E-08 | 5.77E-10 | 7.73E-09 | 1.17E-09 | 1.17E-09 | 6.45E-10 | 1.13E-08 | 3.13E-10 | 4.18E-08 | 5.22E-10 | 5.22E-10 | 2.58E-10 | 5.80E-09 |
| 508 | 259663.18 | 4085057.43 | 3.86E-09 | 5.15E-08 | 7.62E-09 | 7.62E-09 | 4.25E-09 | 7.49E-08 | 5.85E-10 | 7.85E-09 | 1.19E-09 | 1.19E-09 | 6.54E-10 | 1.15E-08 | 3.18E-10 | 4.25E-09 | 5.29E-10 | 5.29E-10 | 2.62E-10 | 5.89E-09 |
| 509 | 259662.46 | 4085032.67 | 3.93E-09 | 5.25E-08 | 7.76E-09 | 7.76E-09 | 4.33E-09 | 7.62E-08 | 5.96E-10 | 7.99E-09 | 1.21E-09 | 1.21E-09 | 6.66E-10 | 1.17E-08 | 3.24E-10 | 4.32E-09 | 5.39E-10 | 5.39E-10 | 2.67E-10 | 5.99E-09 |
| 510 | 259661.74 | 4085007.92 | 4.01E-09 | 3.36E-08 | 7.93E-09 | 7.93E-09 | 4.42E-09 | 7.79E-08 | 6.09E-10 | 8.17E-09 | 1.24E-09 | 1.24E-09 | 6.81E-10 | 1.19E-08 | 3.31E-10 | 4.42E-09 | 5.51E-10 | 5.51E-10 | 2.73E-10 | 6.13E-09 |
| 511 | 259661.02 | 4084983.16 | 4.12E-09 | 5.50E-08 | 8.14E-09 | 6.14E-09 | 4.54E-09 | 7.99E-08 | 6.25E-10 | 8.38E-09 | 1.27E-09 | 1.27E-09 | 6.99E-10 | 1.22E-08 | 3.39E-10 | 4.53E-09 | 5.65E-10 | 5.65E-10 | 2.80E-10 | 6.28E-09 |
| 312 | 259660.29 | 4084958.4 | 4.24E-09 | 5.66E-08 | 8.38E-09 | 8.38E-09 | 4.67E-09 | 6.23E-08 | 6.44E-10 | 8.63E-09 | 1.31E-09 | 1.31E-09 | 7.19E-10 | 1.26E-08 | 3.50E-10 | 4.67E-09 | 5.82E-10 | 5.82E-10 | 2.88E-10 | 6.47E-09 |
| 513 | 259659.57 | 4084933.65 | 4.38E-09 | 5.84E-08 | 8.65E-09 | 6.65E-09 | 4.82E-09 | 8.49E-08 | 6.64E-10 | 8.90E-09 | 1.35E-09 | 1.35E-09 | 7.42E-10 | 1.30E-08 | 3.61E-10 | 4.82E-09 | 6.01E-10 | 6.01E-10 | 2.97E-10 | 6.68E-09 |
| 514 | 259658.85 | 4084908.89 | 4.51E-09 | 8.03E-08 | 6.92E-09 | 6.92E-09 | 4.97E-09 | 8.76E-08 | 6.63E-10 | 9.19E-09 | 1.39E-09 | 1.39E-09 | 7.86E-10 | 1.34E-08 | 3.77E-10 | 4.97E-09 | 6.20E-10 | 6.20E-10 | 3.07E-10 | 6.89E-09 |
| 515 | 259658.13 | 4084884.14 | 4.65E-09 | 6.22E-08 | 9.20E-09 | 9.20E-09 | 5.13E-09 | 9.03E-08 | 7.06E-10 | 9.47E-09 | 1.44E-09 | 1.44E-09 | 7.90E-10 | 1.38E-08 | 3.84E-10 | 5.12E-09 | 6.39E-10 | 6.39E-10 | 3.16E-10 | 7.10E-09 |
| 516 | 259855.12 | 4085099.5 | 3.17E-09 | 4.23E-08 | 6.26E-09 | 6.26E-09 | 3.49E-09 | 6.15E-08 | 4.81E-10 | 6.45E-09 | 9.77E-10 | 9.77E-10 | 5.37E-10 | 9.42E-09 | 2.61E-10 | 3.49E-09 | 4.35E-10 | 4.33E-10 | 2.13E-10 | 4.83E-09 |
| 517 | 259846.41 | 4085122.65 | 3.17E-09 | 4.23E-08 | 6.26E-09 | 6.26E-09 | 3.49E-09 | 6.15E-08 | 4.80E-10 | 6.44E-09 | 9.77E-10 | 9.77E-10 | 5.37E-10 | 9.41E-09 | 2.61E-10 | 3.49E-09 | 4.33E-10 | 4.35E-10 | 2.15E-10 | 4.83E-09 |
| 518 | 259837.7 | 4085145.79 | 3.17E-09 | 4.23E-08 | 6.26E-09 | 6.26E-09 | 3.49E-09 | 6.15E-08 | 4.80E-10 | 6.44E-09 | 9.77E-10 | 9.77E-10 | 5.37E-10 | 9.41E-09 | 2.61E-10 | 3.49E-09 | 4.35E-10 | 4.35E-10 | 2.13E-10 | 4.83E-09 |
| 519 | 259829 | 4085168.94 | 3.16E-09 | 4.22E-08 | 6.25E-09 | 6.25E-09 | 3.44E-09 | 6.14E-08 | 4.80E-10 | 6.43E-09 | 9.75E-10 | 9.75E-10 | 5.36E-10 | 9.40E-09 | 2.61E-10 | 3.48E-09 | 4.34E-10 | 4.34E-10 | 2.15E-10 | 4.82E-09 |
| 520 | 259620.29 | 4085192.09 | 3.15E-09 | 4.21E-08 | 6.23E-09 | 6.23E-09 | 3.68E-09 | 6.12E-08 | 4.79E-10 | 6.42E-09 | 9.77E-10 | 9.77E-10 | 5.35E-10 | 9.38E-09 | 2.60E-10 | 3.47E-09 | 4.33E-10 | 4.33E-10 | 2.14E-10 | 4.81E-09 |
| 521 | 259811.59 | 4085215.23 | 3.14E-09 | 4.20E-08 | 6.21E-09 | 6.21E-09 | 3.46E-09 | 6.10E-08 | 4.77E-10 | 6.39E-09 | 9.69E-10 | 9.69E-10 | 5.33E-10 | 9.34E-09 | 2.59E-10 | 3.46E-09 | 4.31E-10 | 4.31E-10 | 2.13E-10 | 4.79E-09 |
| 522 | 259802.88 | 4085238.38 | 3.12E-09 | 4.16E-08 | 6.16E-09 | 6.16E-09 | 3.44E-09 | 6.05E-08 | 4.77E-10 | 6.34E-09 | 9.62E-10 | 9.62E-10 | 5.29E-10 | 9.27E-09 | 2.57E-10 | 3.43E-09 | 4.28E-10 | 4.26E-10 | 2.12E-10 | 4.76E-09 |
| 523 | 259794.17 | 4085261.53 | 3.09E-09 | 4.12E-08 | 6.10E-09 | 6.10E-09 | 3.40E-09 | 5.99E-08 | 4.66E-10 | 6.26E-09 | 9.52E-10 | 9.52E-10 | 5.23E-10 | 9.17E-09 | 2.54E-10 | 3.40E-09 | 4.24E-10 | 4.24E-10 | 2.10E-10 | 4.71E-09 |
| 524 | 259785.47 | 4085284.66 | 3.04E-09 | 4.07E-08 | 6.01E-09 | 6.01E-09 | 3.35E-09 | 5.91E-08 | 4.62E-10 | 6.19E-09 | 9.39E-10 | 9.39E-10 | 5.16E-10 | 9.05E-09 | 2.51E-10 | 3.35E-09 | 4.18E-10 | 4.16E-10 | 2.07E-10 | 4.64E-09 |
| 525 | 259776.76 | 4085307.82 | 3.00E-09 | 4.00E-08 | 5.92E-09 | 5.92E-09 | 3.30E-09 | 5.81E-08 | 4.55E-10 | 6.10E-09 | 9.24E-10 | 9.24E-10 | 5.02E-10 | 6.91E-09 | 2.47E-10 | 3.30E-09 | 4.11E-10 | 4.11E-10 | 2.04E-10 | 4.57E-09 |
| 526 | 259768.05 | 4085330.97 | 2.94E-09 | 3.93E-08 | 5.82E-09 | 5.82E-09 | 3.24E-09 | 5.72E-08 | 4.47E-10 | 5.99E-09 | 9.08E-10 | 9.08E-10 | 4.99E-10 | 6.75E-09 | 2.43E-10 | 3.24E-09 | 4.04E-10 | 4.04E-10 | 2.00E-10 | 4.49E-09 |
| 527 | 259759.35 | 4085354.12 | 2.89E-09 | 3.86E-08 | 5.71E-09 | 5.71E-09 | 3.18E-09 | 5.61E-08 | 4.39E-10 | 5.88E-09 | 6.92E-10 | 8.92E-10 | 4.90E-10 | 8.59E-09 | 2.38E-10 | 3.18E-09 | 3.97E-10 | 3.97E-10 | 1.96E-10 | 4.41E-09 |
| 528 | 259750.64 | 4085377.26 | 2.84E-09 | 3.79E-08 | 5.61E-09 | 5.61E-09 | 3.13E-09 | 5.51E-08 | 4.31E-10 | 5.77E-09 | 6.76E-10 | 8.76E-10 | 4.81E-10 | 8.44E-09 | 2.34E-10 | 3.12E-09 | 3.90E-10 | 3.90E-10 | 1.93E-10 | 4.33E-09 |
| 529 | 259741.94 | 4085400.41 | 2.78E-09 | 3.72E-08 | 5.50E-09 | 5.50E-09 | 3.07E-09 | 5.41E-08 | 4.23E-10 | 5.67E-09 | 8.59E-10 | 6.59E-10 | 4.72E-10 | 8.28E-09 | 2.30E-10 | 3.07E-09 | 3.82E-10 | 3.82E-10 | 1.89E-10 | 4.25E-09 |
| 530 | 259733.23 | 4085423.56 | 2.77E-09 | 3.65E-08 | 5.40E-09 | 5.40E-09 | 3.01E-09 | 5.31E-08 | 4.15E-10 | 5.56E-09 | 6.44E-10 | 8.44E-10 | 4.64E-10 | 8.13E-09 | 2.25E-10 | 3.01E-09 | 3.75E-10 | 3.75E-10 | 1.86E-10 | 4.17E-09 |
| 531 | 259774.52 | 4085446.71 | 2.69E-09 | 3.59E-08 | 5.31E-09 | 5.31E-09 | 2.96E-09 | 5.21E-08 | 4.08E-10 | 5.47E-09 | 6.29E-10 | 8.29E-10 | 4.56E-10 | 7.99E-09 | 2.21E-10 | 2.96E-09 | 3.69E-10 | 3.69E-10 | 1.83E-10 | 4.10E-09 |
| 532 | 259715.62 | 4085469.85 | 2.64E-09 | 3.53E-08 | 5.22E-09 | 5.22E-09 | 2.91E-09 | 5.13E-08 | 4.01E-10 | 5.37E-09 | 6.15E-10 | 8.15E-10 | 4.48E-10 | 7.85E-09 | 2.16E-10 | 2.91E-09 | 3.63E-10 | 3.63E-10 | 1.79E-10 | 4.03E-09 |
| 533 | 259707.11 | 4085493 | 2.60E-09 | 3.47E-09 | 5.14E-09 | 5.14E-09 | 2.86E-09 | 5.04E-08 | 3.94E-10 | 5.29E-09 | 8.02E-10 | 8.02E-10 | 4.41E-10 | 7.77E-09 | 2.14E-10 | 2.86E-09 | 3.57E-10 | 3.57E-10 | 1.77E-10 | 3.97E-09 |
| 534 | 259698.41 | 4085516.15 | 2.56E-09 | 3.42E-08 | 5.06E-09 | 5.06E-09 | 2.82E-09 | 4.97E-08 | 3.89E-10 | 5.21E-09 | 7.90E-10 | 7.90E-10 | 4.35E-10 | 7.82E-09 | 2.11E-10 | 2.82E-09 | 3.52E-10 | 3.52E-10 | 1.74E-10 | 3.91E-09 |
| 333 | 259689.7 | 4085539.29 | 2.53E-09 | 3.37E-08 | 4.99E-09 | 4.99E-09 | 2.76E-09 | 4.90E-08 | 3.83E-10 | 5.14E-09 | 7.79E-10 | 7.79E-10 | 4.29E-10 | 7.51E-09 | 2.08E-10 | 2.76E-09 | 3.47E-10 | 3.47E-10 | 1.72E-10 | 3.85E-09 |
| 336 | 259680.99 | 4085562.44 | 2.50E-09 | 3.34E-09 | 4.94E-09 | 4.94E-09 | 2.75E-09 | 4.85E-08 | 3.79E-10 | 5.09E-09 | 7.71E-10 | 7.71E-10 | 4.24E-10 | 7.43E-09 | 2.06E-10 | 2.75E-09 | 3.45E-10 | 3.43E-10 | 1.70E-10 | 3.81E-09 |
| 537 | 259672.29 | 4085585.59 | 2.47E-09 | 3.30E-09 | 4.89E-09 | 4.89E-09 | 2.72E-09 | 4.80E-08 | 3.75E-10 | 5.03E-09 | 7.63E-10 | 7.63E-10 | 4.19E-10 | 7.35E-09 | 2.04E-10 | 2.77E-09 | 3.39E-10 | 3.39E-10 | 1.68E-10 | 3.77E-09 |
| 538 | 259663.6E | 4085608.77 | 2.45E-09 | 3.27E-08 | 4.84E-09 | 4.84E-09 | 2.70E-09 | 4.75E-08 | 3.72E-10 | 4.96E-09 | 7.56E-10 | 7.56E-10 | 4.15E-10 | 7.28E-09 | 2.02E-10 | 2.70E-09 | 3.36E-10 | 3.36E-10 | 1.66E-10 | 3.74E-09 |
| 539 | 259654.88 | 4085631.88 | 2.43E-09 | 3.24E-08 | 4.60E-09 | 4.80E-09 | 2.68E-09 | 4.71E-08 | 3.69E-10 | 4.94E-09 | 7.49E-10 | 7.49E-10 | 4.12E-10 | 7.22E-09 | 2.00E-10 | 2.67E-09 | 3.33E-10 | 3.33E-10 | 1.65E-10 | 3.71E-09 |
| 540 | 259646.17 | 4085655.03 | 2.41E-09 | 3.22E-08 | 4.77E-09 | 4.77E-09 | 2.66E-09 | 4.68E-08 | 3.66E-10 | 4.91E-09 | 7.44E-10 | 7.44E-10 | 4.09E-10 | 7.17E-09 | 1.99E-10 | 2.66E-09 | 3.31E-10 | 3.31E-10 | 1.64E-10 | 3.68E-09 |
| 541 | 259637.46 | 4085678.16 | 2.39E-09 | 3.20E-08 | 4.73E-09 | 4.75E-09 | 2.84E-09 | 4.65E-08 | 3.63E-10 | 4.87E-09 | 7.39E-10 | 7.39E-10 | 4.06E-10 | 7.12E-09 | 1.97E-10 | 2.84E-09 | 3.29E-10 | 3.29E-10 | 1.63E-10 | 3.65E-09 |
| 542 | 259628.76 | 4085701.32 | 2.38E-09 | 3.18E-09 | 4.70E-09 | 4.70E-09 | 2.62E-09 | 4.61E-08 | 3.61E-10 | 4.84E-09 | 7.34E-10 | 7.34E-10 | 4.03E-10 | 7.07E-09 | 1.96E-10 | 2.62E-09 | 3.26E-10 | 3.26E-10 | 1.62E-10 | 3.63E-09 |
| 543 | 259620.05 | 4085724.47 | 2.36E-09 | 3.16E-09 | 4.66E-09 | 4.66E-09 | 2.60E-09 | 4.58E-08 | 3.58E-10 | 4.80E-09 | 7.26E-10 | 7.28E-10 | 4.00E-10 | 7.02E-09 | 1.95E-10 | 2.60E-09 | 3.24E-10 | 3.24E-10 | 1.60E-10 | 3.60E-09 |
| 544 | 259611.35 | 4085747.62 | 2.54E-09 | 3.12E-08 | 4.82E-09 | 4.62E-09 | 2.58E-09 | 4.54E-08 | 3.55E-10 | 4.76E-08 | 7.22E-10 | 7.22E-10 | 3.97E-10 | 6.95E-09 | 1.93E-10 | 2.58E-09 | 3.21E-10 | 3.21E-10 | 1.59E-10 | 3.57E-09 |
| 545 | 259602.64 | 4085770.76 | 2.32E-09 | 3.10E-08 | 4.59E-09 | 4.59E-09 | 2.56E-09 | 4.51E-08 | 3.53E-10 | 4.73E-09 | 7.17E-10 | 7.17E-10 | 3.94E-10 | 6.91E-09 | 1.91E-10 | 2.56E-09 | 3.19E-10 | 3.19E-10 | 1.58E-10 | 3.55E-09 |
| 546 | 259593.93 | 4085793.91 | 2.31E-09 | 3.08E-08 | 4.56E-09 | 4.56E-09 | 2.54E-09 | 4.48E-08 | 3.50E-10 | 4.69E-09 | 7.12E-10 | 7.12E-10 | 3.91E-10 | 6.86E-09 | 1.90E-10 | 2.54E-09 | 3.17E-10 | 3.17E-10 | 1.57E-10 | 3.52E-09 |
| 547 | 259585.23 | 4085817.06 | 2.29E-09 | 3.06E-08 | 4.52E-09 | 4.52E-09 | 2.52E-09 | 4.44E-08 | 3.47E-10 | 4.66E-09 | 7.06E-10 | 7.06E-10 | 3.88E-10 | 6.80E-09 | 1.89E-10 | 2.52E-09 | 3.14E-10 | 3.14E-10 | 1.55E-10 | 3.49E-09 |
| 548 | 259576.52 | 4085840.21 | 2.27E-09 | 3.03E-08 | 4.48E-09 | 4.48E-09 | 2.50E-09 | 4.40E-08 | 3.44E-10 | 4.62E-09 | 7.00E-10 | 7.00E-10 | 3.85E-10 | 6.75E-09 | 1.87E-10 | 2.50E-09 | 3.11E-10 | 3.11E-10 | 1.54E-10 | 3.46E-09 |
| 549 | 259567.82 | 4085863.35 | 2.25E-09 | 3.00E-08 | 4.44E-09 | 4.44E-09 | 2.42E-09 | 4.36E-08 | 3.41E-10 | 4.57E-09 | 6.93E-10 | 6.93E-10 | 3.81E-10 | 6.68E-09 | 1.85E-10 | 2.47E-09 | 3.09E-10 | 3.09E-10 | 1.53E-10 | 3.43E-09 |
| 550 | 259559.11 | 4085886.5 | 2.22E-09 | 2.97E-09 | 4.39E-09 | 4.39E-09 | 2.45E-09 | 4.31E-08 | 3.37E-10 | 4.52E-09 | 6.86E-10 | 6.66E-10 | 3.77E-10 | 6.81E-09 | 1.83E-10 | 2.45E-09 | 3.05E-10 | 3.05E-10 | 1.51E-10 | 3.39E-09 |
| 551 | 259550.4 | 4085909.65 | 2.20E-09 | 2.93E-08 | 4.34E-09 | 4.34E-09 | 2.42E-09 | 4.26E-08 | 3.33E-10 | 4.47E-09 | 6.78E-10 | 6.78E-10 | 3.73E-10 | 6.53E-09 | 1.81E-10 | 2.42E-09 | 3.02E-10 | 3.02E-10 | 1.49E-10 | 3.35E-09 |
| 552 | 259541.7 | 4085932.79 | 2.17E-09 | 2.90E-08 | 4.29E-09 | 4.29E-09 | 2.39E-09 | 4.21E-08 | 3.29E-10 | 4.41E-09 | 6.69E-10 | 6.66E-10 | 3.68E-10 | 6.43E-09 | 1.79E-10 | 2.39E-09 | 2.98E-10 | 2.98E-10 | 1.47E-10 | 3.31E-09 |
| 553 | 259532.99 | 4085955.94 | 2.14E-09 | 2.86E-09 | 4.23E-09 | 4.23E-09 | 2.36E-09 | 4.15E-08 | 3.25E-10 | 4.35E-09 | 6.60E-10 | 6.60E-10 | 3.63E-10 | 6.36E-09 | 1.76E-10 | 2.36E-09 | 2.94E-10 | 2.94E-10 | 1.45E-10 | 3.26E-09 |
| 554 | 259524.29 | 4085979.09 | 2.11E-09 | 2.82E-08 | 4.17E-09 | 4.17E-09 | 2.32E-09 | 4.09E-08 | 3.20E-10 | 4.29E-09 | 6.51E-10 | 6.51E-10 | 3.58E-10 | 6.27E-09 | 1.74E-10 | 2.32E-09 | 2.90E-10 | 2.90E-10 | 1.43E-10 | 3.22E-09 |
| 555 | 259515.58 | 4086002.24 | 2.03E-09 | 2.76E-08 | 4.11E-09 | 4.11E-09 | 2.29E-09 | 4.04E-08 | 3.16E-10 | 4.24E-09 | 6.42E-10 | 6.42E-10 | 3.53E-10 | 6.19

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 351 | 259259.74 | 4084945.32 | 7.51E-08 | 1.00E-07 | 1.48E-08 | 1.48E-08 | 8.26E-09 | 1.46E-07 | 1.14E-09 | 1.53E-08 | 2.32E-09 | 2.32E-09 | 1.27E-09 | 2.23E-08 | 6.19E-10 | 8.27E-09 | 1.03E-09 | 1.03E-09 | 5.10E-10 | 1.15E-08 |
| 352 | 259259.02 | 4084920.56 | 7.81E-09 | 1.04E-07 | 1.54E-08 | 1.54E-08 | 8.61E-09 | 1.32E-07 | 1.19E-09 | 1.59E-08 | 2.41E-09 | 2.41E-09 | 1.32E-09 | 2.32E-08 | 6.44E-10 | 6.60E-09 | 1.07E-09 | 1.07E-09 | 5.31E-10 | 1.19E-08 |
| 353 | 259258.3 | 4084895.81 | 8.12E-09 | 1.08E-07 | 1.60E-08 | 1.60E-08 | 8.94E-09 | 1.58E-07 | 1.23E-09 | 1.65E-08 | 2.50E-09 | 2.50E-08 | 1.58E-09 | 2.41E-08 | 6.69E-10 | 6.94E-09 | 1.11E-09 | 1.11E-09 | 5.51E-10 | 1.24E-08 |
| 354 | 259455.35 | 4085110.99 | 4.69E-09 | 6.27E-08 | 9.27E-09 | 9.27E-09 | 5.17E-09 | 9.11E-08 | 7.12E-10 | 9.55E-09 | 1.45E-09 | 1.43E-09 | 7.96E-10 | 1.40E-08 | 3.87E-10 | 5.17E-09 | 6.44E-10 | 6.44E-10 | 3.19E-10 | 7.16E-09 |
| 355 | 259446.72 | 4085133.95 | 4.67E-09 | 6.24E-08 | 9.23E-09 | 9.23E-09 | 5.14E-09 | 9.06E-08 | 7.09E-10 | 9.50E-09 | 1.44E-09 | 1.44E-08 | 7.92E-10 | 1.39E-08 | 3.85E-10 | 5.14E-09 | 6.41E-10 | 6.41E-10 | 3.17E-10 | 7.13E-09 |
| 356 | 259438.08 | 4085156.92 | 4.64E-09 | 6.20E-08 | 9.17E-09 | 9.17E-09 | 5.11E-09 | 9.01E-08 | 7.04E-10 | 9.44E-09 | 1.43E-09 | 1.43E-09 | 7.87E-10 | 1.38E-08 | 3.82E-10 | 5.11E-09 | 6.37E-10 | 6.37E-10 | 3.15E-10 | 7.08E-09 |
| 357 | 259429.44 | 4085179.88 | 4.60E-09 | 6.15E-08 | 9.09E-09 | 9.09E-09 | 5.07E-09 | 8.93E-08 | 6.98E-10 | 9.36E-09 | 1.42E-09 | 1.42E-08 | 7.81E-10 | 1.37E-08 | 3.79E-10 | 5.07E-09 | 6.32E-10 | 6.37E-10 | 3.13E-10 | 7.02E-09 |
| 358 | 259420.8 | 4085202.65 | 4.55E-09 | 6.08E-08 | 8.99E-09 | 8.99E-09 | 5.01E-09 | 8.83E-08 | 6.90E-10 | 9.26E-09 | 1.40E-09 | 1.40E-09 | 7.72E-10 | 1.35E-08 | 3.75E-10 | 5.01E-09 | 6.24E-10 | 6.24E-10 | 3.09E-10 | 6.94E-09 |
| 359 | 259412.17 | 4085225.81 | 4.48E-09 | 5.99E-08 | 8.86E-09 | 8.86E-09 | 4.94E-09 | 8.70E-08 | 6.80E-10 | 9.12E-09 | 1.38E-09 | 1.38E-09 | 7.60E-10 | 1.33E-08 | 3.69E-10 | 4.94E-09 | 6.15E-10 | 6.13E-10 | 3.05E-10 | 6.84E-09 |
| 360 | 259403.33 | 4085248.78 | 4.40E-09 | 5.88E-08 | 8.70E-09 | 8.70E-09 | 4.85E-09 | 8.35E-08 | 6.69E-10 | 8.96E-09 | 1.36E-09 | 1.36E-09 | 7.47E-10 | 1.31E-08 | 3.63E-10 | 4.85E-09 | 6.05E-10 | 6.05E-10 | 2.99E-10 | 6.72E-09 |
| 361 | 259394.89 | 4085271.74 | 4.32E-09 | 5.77E-08 | 8.53E-09 | 8.53E-09 | 4.76E-09 | 8.38E-08 | 6.35E-10 | 8.79E-09 | 1.35E-09 | 1.33E-09 | 7.33E-10 | 1.26E-08 | 3.56E-10 | 4.75E-09 | 5.93E-10 | 5.93E-10 | 2.93E-10 | 6.39E-09 |
| 362 | 259386.25 | 4085294.71 | 4.23E-09 | 5.65E-08 | 8.35E-09 | 8.35E-09 | 4.66E-09 | 8.20E-08 | 6.41E-10 | 8.60E-09 | 1.30E-09 | 1.30E-09 | 7.17E-10 | 1.26E-08 | 3.48E-10 | 4.65E-09 | 5.80E-10 | 5.80E-10 | 2.87E-10 | 6.45E-09 |
| 363 | 259377.61 | 4085317.68 | 4.13E-09 | 5.52E-08 | 8.17E-09 | 8.17E-09 | 4.55E-09 | 8.02E-08 | 6.27E-10 | 8.41E-09 | 1.28E-09 | 1.28E-09 | 7.01E-10 | 1.23E-08 | 3.41E-10 | 4.55E-09 | 5.67E-10 | 5.67E-10 | 2.81E-10 | 6.31E-09 |
| 364 | 259366.98 | 4085340.64 | 4.03E-09 | 5.39E-08 | 7.97E-09 | 7.97E-09 | 4.45E-09 | 7.83E-08 | 6.12E-10 | 8.21E-09 | 1.24E-09 | 1.24E-09 | 6.84E-10 | 1.20E-08 | 3.33E-10 | 4.44E-09 | 5.54E-10 | 5.54E-10 | 2.74E-10 | 6.16E-09 |
| 365 | 259360.34 | 4085363.61 | 3.95E-09 | 5.28E-08 | 7.81E-09 | 7.81E-09 | 4.35E-09 | 7.67E-08 | 5.99E-10 | 8.04E-09 | 1.22E-09 | 1.22E-09 | 6.70E-10 | 1.17E-08 | 3.26E-10 | 4.35E-09 | 5.42E-10 | 5.42E-10 | 2.68E-10 | 6.03E-09 |
| 366 | 259351.7 | 4085386.57 | 3.87E-09 | 5.17E-08 | 7.68E-09 | 7.66E-08 | 4.27E-09 | 7.32E-08 | 5.88E-10 | 7.88E-09 | 1.20E-09 | 1.20E-09 | 6.57E-10 | 1.15E-08 | 3.19E-10 | 4.26E-09 | 5.32E-10 | 5.32E-10 | 2.63E-10 | 5.91E-09 |
| 367 | 259343.06 | 4085409.54 | 3.80E-09 | 5.08E-08 | 7.52E-09 | 7.52E-08 | 4.19E-09 | 7.38E-08 | 5.77E-10 | 7.74E-09 | 1.17E-09 | 1.17E-09 | 6.45E-10 | 1.13E-08 | 3.14E-10 | 4.19E-09 | 5.22E-10 | 5.22E-10 | 2.58E-10 | 5.80E-09 |
| 368 | 259334.43 | 4085432.5 | 3.74E-09 | 5.00E-08 | 7.39E-09 | 7.39E-08 | 4.12E-09 | 7.26E-08 | 5.68E-10 | 7.61E-09 | 1.15E-09 | 1.15E-09 | 6.35E-10 | 1.11E-08 | 3.08E-10 | 4.12E-09 | 5.14E-10 | 5.14E-10 | 2.54E-10 | 5.71E-09 |
| 369 | 259325.79 | 4085455.47 | 3.69E-09 | 4.93E-08 | 7.29E-09 | 7.29E-08 | 4.06E-09 | 7.16E-08 | 5.60E-10 | 7.50E-09 | 1.14E-09 | 1.14E-09 | 6.26E-10 | 1.10E-08 | 3.04E-10 | 4.06E-09 | 5.06E-10 | 5.06E-10 | 2.51E-10 | 5.63E-09 |
| 370 | 259317.15 | 4089478.43 | 3.64E-09 | 4.86E-08 | 7.19E-09 | 7.19E-08 | 4.01E-09 | 7.06E-08 | 5.52E-10 | 7.40E-09 | 1.12E-09 | 1.12E-09 | 6.17E-10 | 1.08E-08 | 3.00E-10 | 4.00E-09 | 4.99E-10 | 4.99E-10 | 2.47E-10 | 5.55E-09 |
| 371 | 259308.51 | 4085501.4 | 3.59E-09 | 4.80E-08 | 7.09E-09 | 7.09E-08 | 3.96E-09 | 6.97E-08 | 5.45E-10 | 7.31E-09 | 1.11E-09 | 1.11E-09 | 6.09E-10 | 1.07E-08 | 2.96E-10 | 3.95E-09 | 4.93E-10 | 4.93E-10 | 2.44E-10 | 5.48E-09 |
| 372 | 259299.87 | 4085524.37 | 3.55E-09 | 4.74E-08 | 7.01E-09 | 7.01E-08 | 3.91E-09 | 6.88E-08 | 5.38E-10 | 7.21E-09 | 1.09E-09 | 1.09E-09 | 6.01E-10 | 1.05E-08 | 2.92E-10 | 3.90E-09 | 4.87E-10 | 4.87E-10 | 2.41E-10 | 5.41E-08 |
| 373 | 259291.24 | 4085547.33 | 3.50E-09 | 4.68E-08 | 6.92E-09 | 6.92E-08 | 3.86E-09 | 6.80E-08 | 5.31E-10 | 7.13E-09 | 1.08E-09 | 1.08E-09 | 5.94E-10 | 1.04E-08 | 2.89E-10 | 3.86E-09 | 4.81E-10 | 4.81E-10 | 2.38E-10 | 5.34E-09 |
| 374 | 259282.6 | 4085570.3 | 3.46E-09 | 4.62E-08 | 6.84E-09 | 6.84E-08 | 3.81E-09 | 6.72E-08 | 5.25E-10 | 7.04E-09 | 1.07E-09 | 1.07E-09 | 5.87E-10 | 1.03E-08 | 2.85E-10 | 3.81E-09 | 4.75E-10 | 4.75E-10 | 2.35E-10 | 5.26E-09 |
| 375 | 259273.96 | 4085593.26 | 3.42E-09 | 4.56E-08 | 6.75E-09 | 6.75E-08 | 3.76E-09 | 6.63E-08 | 5.19E-10 | 6.95E-09 | 1.05E-09 | 1.05E-09 | 5.80E-10 | 1.02E-08 | 2.82E-10 | 3.76E-09 | 4.69E-10 | 4.69E-10 | 2.32E-10 | 5.21E-09 |
| 376 | 259265.32 | 4085616.23 | 3.37E-09 | 4.31E-08 | 6.67E-09 | 6.67E-08 | 3.72E-09 | 6.35E-08 | 5.12E-10 | 6.85E-09 | 1.04E-09 | 1.04E-09 | 5.72E-10 | 1.00E-08 | 2.78E-10 | 3.71E-09 | 4.63E-10 | 4.63E-10 | 2.29E-10 | 5.15E-09 |
| 377 | 259256.69 | 4085639.19 | 3.33E-09 | 4.45E-08 | 6.58E-09 | 6.58E-08 | 3.67E-09 | 6.46E-08 | 5.05E-10 | 6.77E-09 | 1.03E-09 | 1.03E-09 | 5.65E-10 | 9.90E-09 | 2.74E-10 | 3.66E-09 | 4.57E-10 | 4.57E-10 | 2.26E-10 | 5.08E-09 |
| 378 | 259248.05 | 4085662.16 | 3.28E-09 | 4.38E-08 | 6.48E-09 | 6.48E-08 | 3.61E-09 | 6.37E-08 | 4.98E-10 | 6.68E-09 | 1.01E-09 | 1.01E-09 | 5.56E-10 | 9.75E-09 | 2.70E-10 | 3.61E-09 | 4.50E-10 | 4.50E-10 | 2.23E-10 | 5.01E-09 |
| 379 | 259239.41 | 4085685.12 | 3.23E-09 | 4.32E-08 | 6.38E-09 | 6.38E-08 | 3.56E-09 | 6.27E-08 | 4.90E-10 | 6.57E-09 | 9.97E-10 | 9.97E-10 | 5.48E-10 | 9.61E-09 | 2.66E-10 | 3.56E-09 | 4.44E-10 | 4.44E-10 | 2.20E-10 | 4.93E-09 |
| 380 | 259230.77 | 4085708.09 | 3.18E-09 | 4.25E-08 | 6.28E-09 | 6.26E-08 | 3.50E-09 | 6.17E-08 | 4.82E-10 | 6.47E-09 | 9.81E-10 | 9.61E-10 | 5.39E-10 | 9.45E-09 | 2.62E-10 | 3.50E-09 | 4.36E-10 | 4.36E-10 | 2.16E-10 | 4.85E-09 |
| 381 | 259222.13 | 4085731.06 | 3.13E-09 | 4.17E-08 | 6.18E-09 | 6.18E-08 | 3.44E-09 | 6.07E-08 | 4.74E-10 | 6.36E-09 | 9.64E-10 | 9.84E-10 | 5.30E-10 | 9.29E-09 | 2.58E-10 | 3.44E-09 | 4.29E-10 | 4.29E-10 | 2.12E-10 | 4.77E-09 |
| 382 | 259213.5 | 4085754.02 | 3.07E-09 | 4.11E-08 | 6.08E-09 | 6.08E-08 | 3.39E-09 | 5.97E-08 | 4.67E-10 | 6.26E-09 | 9.49E-10 | 9.49E-10 | 5.22E-10 | 9.14E-09 | 2.53E-10 | 3.39E-09 | 4.22E-10 | 4.22E-10 | 2.09E-10 | 4.69E-09 |
| 383 | 259204.86 | 4085776.99 | 3.02E-09 | 4.04E-08 | 5.97E-09 | 5.97E-08 | 3.33E-09 | 5.87E-08 | 4.59E-10 | 6.15E-09 | 9.33E-10 | 9.33E-10 | 5.13E-10 | 8.99E-09 | 2.49E-10 | 3.33E-09 | 4.15E-10 | 4.15E-10 | 2.05E-10 | 4.61E-09 |
| 384 | 259196.22 | 4085799.95 | 2.96E-09 | 3.98E-08 | 5.88E-09 | 5.88E-08 | 3.28E-09 | 5.78E-08 | 4.52E-10 | 6.06E-09 | 9.19E-10 | 9.19E-10 | 5.05E-10 | 8.85E-09 | 2.45E-10 | 3.26E-09 | 4.09E-10 | 4.09E-10 | 2.02E-10 | 4.54E-09 |
| 385 | 259187.58 | 4085822.92 | 2.93E-09 | 3.92E-08 | 5.80E-09 | 5.80E-08 | 3.23E-09 | 5.69E-08 | 4.45E-10 | 5.97E-09 | 9.06E-10 | 9.06E-10 | 4.98E-10 | 8.72E-09 | 2.42E-10 | 3.23E-09 | 4.03E-10 | 4.03E-10 | 1.99E-10 | 4.48E-09 |
| 386 | 259178.95 | 4085845.88 | 2.89E-09 | 3.87E-08 | 5.72E-09 | 5.72E-08 | 3.19E-09 | 5.62E-08 | 4.39E-10 | 5.89E-09 | 8.93E-10 | 8.93E-10 | 4.91E-10 | 8.61E-09 | 2.39E-10 | 3.19E-09 | 3.97E-10 | 3.97E-10 | 1.97E-10 | 4.42E-09 |
| 387 | 259148.04 | 4085879.15 | 2.89E-09 | 3.86E-08 | 5.71E-09 | 5.71E-08 | 3.19E-09 | 5.61E-08 | 4.39E-10 | 5.88E-09 | 8.92E-10 | 8.92E-10 | 4.91E-10 | 8.60E-09 | 2.38E-10 | 3.16E-09 | 3.97E-10 | 3.97E-10 | 1.96E-10 | 4.41E-09 |
| 388 | 259125.77 | 4085889.45 | 2.93E-09 | 3.91E-08 | 5.78E-09 | 5.78E-08 | 3.22E-09 | 5.68E-08 | 4.44E-10 | 5.95E-09 | 9.03E-10 | 9.03E-10 | 4.96E-10 | 8.70E-09 | 2.41E-10 | 3.22E-09 | 4.02E-10 | 4.02E-10 | 1.99E-10 | 4.46E-09 |
| 389 | 259103.5 | 4085899.75 | 2.96E-09 | 3.95E-08 | 5.85E-09 | 5.85E-08 | 3.26E-09 | 5.75E-08 | 4.49E-10 | 6.02E-09 | 9.13E-10 | 9.13E-10 | 5.02E-10 | 8.80E-09 | 2.44E-10 | 3.26E-09 | 4.06E-10 | 4.06E-10 | 2.01E-10 | 4.52E-09 |
| 390 | 259081.23 | 4085910.05 | 3.00E-09 | 4.00E-08 | 5.92E-09 | 5.92E-08 | 3.30E-09 | 5.81E-08 | 4.55E-10 | 6.10E-09 | 9.24E-10 | 9.24E-10 | 5.08E-10 | 8.91E-09 | 2.47E-10 | 3.30E-09 | 4.11E-10 | 4.11E-10 | 2.04E-10 | 4.57E-09 |
| 391 | 259058.96 | 4085920.35 | 3.03E-09 | 4.05E-08 | 5.99E-09 | 5.99E-08 | 3.34E-09 | 5.89E-08 | 4.60E-10 | 6.17E-09 | 9.36E-10 | 9.36E-10 | 5.14E-10 | 9.02E-09 | 2.50E-10 | 3.34E-09 | 4.16E-10 | 4.16E-10 | 2.06E-10 | 4.63E-09 |
| 392 | 259036.69 | 4085930.65 | 3.07E-09 | 4.10E-08 | 6.07E-09 | 6.07E-08 | 3.38E-09 | 5.96E-08 | 4.66E-10 | 6.25E-09 | 9.48E-10 | 9.48E-10 | 5.21E-10 | 9.13E-09 | 2.53E-10 | 3.38E-09 | 4.22E-10 | 4.22E-10 | 2.09E-10 | 4.69E-09 |
| 393 | 259014.42 | 4085940.95 | 3.11E-09 | 4.16E-08 | 6.15E-09 | 6.15E-08 | 3.43E-09 | 6.04E-08 | 4.72E-10 | 6.33E-09 | 9.60E-10 | 9.60E-10 | 5.28E-10 | 9.25E-09 | 2.56E-10 | 3.43E-09 | 4.27E-10 | 4.27E-10 | 2.11E-10 | 4.75E-09 |
| 394 | 258992.15 | 4085951.25 | 3.15E-09 | 4.21E-08 | 6.23E-09 | 6.23E-08 | 3.48E-09 | 6.12E-08 | 4.79E-10 | 6.42E-09 | 9.73E-10 | 9.73E-10 | 5.35E-10 | 9.38E-09 | 2.60E-10 | 3.47E-09 | 4.33E-10 | 4.33E-10 | 2.14E-10 | 4.81E-09 |
| 395 | 258969.88 | 4085961.54 | 3.20E-09 | 4.27E-08 | 6.32E-09 | 6.32E-08 | 3.53E-09 | 6.21E-08 | 4.86E-10 | 6.51E-09 | 9.87E-10 | 9.87E-10 | 5.43E-10 | 9.51E-09 | 2.64E-10 | 3.52E-09 | 4.39E-10 | 4.39E-10 | 2.17E-10 | 4.88E-09 |
| 396 | 258947.61 | 4085971.84 | 3.24E-08 | 4.33E-08 | 6.41E-08 | 6.41E-08 | 3.57E-09 | 6.30E-08 | 4.92E-10 | 6.60E-09 | 1.00E-09 | 1.00E-09 | 5.50E-10 | 9.64E-09 | 2.67E-10 | 3.57E-09 | 4.45E-10 | 4.45E-10 | 2.20E-10 | 4.95E-09 |
| 397 | 258925.34 | 4085982.14 | 3.30E-09 | 4.41E-08 | 6.52E-08 | 6.52E-08 | 3.63E-09 | 6.40E-08 | 5.01E-10 | 6.71E-09 | 1.02E-09 | 1.02E-09 | 5.60E-10 | 9.81E-09 | 2.72E-10 | 3.63E-09 | 4.53E-10 | 4.33E-10 | 2.24E-10 | 5.03E-09 |
| 398 | 258903.07 | 4085992.44 | 3.37E-09 | 4.50E-08 | 6.65E-09 | 6.65E-08 | 3.71E-09 | 6.53E-08 | 5.11E-10 | 6.85E-09 | 1.04E-09 | 1.04E-09 | 5.71E-10 | 1.00E-08 | 2.77E-10 | 3.71E-09 | 4.62E-10 | 4.62E-10 | 2.29E-10 | 5.14E-09 |
| 399 | 258880.8 | 4086002.74 | 3.44E-09 | 4.59E-08 | 6.79E-09 | 6.79E-08 | 3.79E-09 | 6.67E-08 | 5.22E-10 | 7.00E-09 | 1.06E-09 | 1.06E-09 | 5.83E-10 | 1.02E-08 | 2.83E-10 | 3.79E-09 | 4.72E-10 | 4.72E-10 | 2.34E-10 | 5.26E-09 |
| 400 | 258858.53 | 4086013.04 | 3.52E-09 | 4.70E-08 | 6.95E-09 | 6.95E-08 | 3.88E-09 | 6.83E-08 | 5.34E-10 | 7.16E-09 | 1.09E-09 | 1.09E-09 | 5.97E-10 | 1.05E-08 | 2.90E-10 | 3.87E-09 | 4.83E-10 | 4.83E-10 | 2.39E-10 | 5.37E-09 |
| 401 | 258836.26 | 4086023.34 | 3.60E-09 | 4.81E-08 | 7.12E-09 | 7.12E-08 | 3.97E-09 | 6.99E-08 | 5.47E-10 | 7.33E-09 | 1.11E-09 | 1.11E-09 | 6.11E-10 | 1.07E-08 | 2.97E-10 | 3.97E-09 | 4.95E-10 | 4.95E-10 | 2.45E-10 | 5.50E-09 |
| 402 | 258813.99 | 4086033.64 | 3.69E-09 | 4.92E-08 | 7.28E-09 | 7.28E-08 | 4.06E-09 | 7.16E-08 | 5.59E-10 | 7.50E-09 | 1.14E-09 | 1.14E-09 | 6.25E-10 | 1.10E-08 | 3.04E-10 | 4.06E-08 | 5.06E-10 | 5.06E-10 | 2.50E-10 | 5.63E-09 |
| 403 | 258791.72 | 4086043.94 | 3.77E-09 | 5.03E-08 | 7.44E-09 | 7.44E-08 | 4.15E-09 | 7.31E-08 | 5.71E-10 | 7.66E-09 | 1.16E-09 | 1.18E-09 | 6.39E-10 | 1.12E-08 | 3.10E-10 | 4.15E-09 | 5.17E-10 | 5.17E-10 | 2.56E-10 | 5.73E-09 |
| 404 | 258769.45 | 4086054.24 | 3.84E-09 | 5.13E-08 | 7.58E-09 | 7.58E-08 | 4.23E-09 | 7.45E-08 | 5.82E-10 | 7.81E-09 | 1.18E-09 | 1.18E-09 | 6.31E-10 | 1.14E-08 | 3.16E-10 | 4.23E-09 | 5.27E-10 | 5.27E-10 | 2.61E-10 | 5.86E-09 |
| 405 | 258747.18 | 4086064.54 | 3.90E-09 | 5.21E-08 | 7.71E-09 | 7.71E-08 | 4.30E-09 | 7.58E-08 | 5.92E-10 | 7.94E-09 | 1.20E-09 | 1.20E-09 | 6.62E-10 | 1.16E-08 | 3.22E-10 | 4.30E-09 | 5.36E-10 | 5.36E-10 | 2.65E-10 | 5.96E-09 |
| 406 | 258724.91 | 4086074.84 | 3.96E-09 | 5.29E-08 | 7.82E-09 | 7.82E-08 | 4.36E-09 | 7.68E-08 | 6.01E-10 | 8.05E-09 | 1.22E-09 | 1.22E-09 | 6.71E-10 | 1.18E-08 | 3.28E-10 | 4.36E-09 | 5.43E-10 | 5.43E-10 | 2.69E-10 | 6.04E-09 |
| 407 | 258702.64 | 4086085.14 | 4.01E-09 | 5.35E-08 | 7.92E-09 | 7.92E-08 | 4.41E-09 | 7.77E-08 | 6.08E-10 | 8.15E-09 | 1.24E-09 | 1.24E-09 | 6.79E-10 | 1.19E-08 | 3.30E-10 | 4.41E-09 | 5.50E-10 | 5.50E-10 | 2.72E-10 | 6.11E-09 |
| 408 | 258680.37 | 4086095.44 | 4.05E-09 | 5.41E-08 | 6.00E-09 | 8.00E-09 | 4.46E-09 | 7.86E-08 | 6.14E-10 | 8.24E-09 | 1.25E-09 | 1.25E-09 | 6.67E-10 | 1.20E-08 | 3.34E-10 | 4.46E-09 | 5.56E-10 | 5.56E-10 | 2.75E-10 | 6.18E-09 |
| 409 | 258656.1 | 4086105.74 | 4.09E-09 | 5.46E-08 | 8.08E-09 | 8.08E-09 | 4.50E-09 | 7.93E-08 | 6.20E-10 | 8.32E-09 | 1.26E-09 | 1.26E-09 | 6.93E-10 | 1.22E-08 | 3.37E-10 | 4.50E-09 | 5.61E-10 | 5.61E-10 | 2.78E-10 | 6.24E-09 |
| 410 | 258635.83 | 4086116.04 | 4.13E-09 | 5.51E-08 | 6.15E-09 | 8.15E-09 | 4.55E-09 | 8.01E-08 | 6.26E-10 | 8.40E-09 | 1.27E-09 | 1.27E-09 | 7.00E-10 | 1.23E-08 | 3.40E-10 | 4.54E-09 | 5.66E-10 | 5.66E-10 | 2.80E-10 | 6.30E-09 |
| 411 | 258613.56 | 4086126.34 | 4.17E-09 | 5.57E-08 | 8.23E-09 | 8.23E-09 | 4.59E-09 | 8.09E-08 | 6.32E-10 | 8.48E-09 | 1.29E-09 | 1.29E-09 | 7.07E-10 | 1.24E-08 | 3.43E-10 | 4.59E-09 | 5.72E-10 | 5.72E-10 | 2.85E-10 | 6.36E-09 |
| 412 | 258591.29 | 4086136.64 | 4.21E-09 | 5.62E-08 | 8.32E-09 | 8.32E-08 | 4.64E-09 | 6.17E-08 | 6.39E-10 | 8.56E-09 | 1.30E-09 | 1.30E-09 | 7.14E-10 | 1.26E-08 | 3.47E-10 | 4.63E-09 | 5.78E-10 | 5.78E-10 | 2.86E-10 | 6.42E-09 |
| 413 | 258569.02 | 4086146.94 | 4.25E-09 | 5.68E-08 | 8.41E-09 | 8.41E-09 | 4.69E-09 | 6.26E-08 | 6.46E-10 | 8.66E-09 | 1.31E-09 | 1.31E-09 | 7.22E-10 | 1.27E-08 | 3.51E-10 | 4.88E-09 | 5.84E-10 | 5.84E-10 | 2.89E-10 | 6.49E-09 |
| 414 | 258546.75 | 4086157.24 | 4.30E-09 | 5.75E-08 | 8.51E-09 | 8.51E-09 | 4.74E-09 | 8.36E-08 | 6.53E-10 | 6.78E-09 | 1.33E-09 | 1.33E-09 | 7.30E-10 | 1.28E-08 | 3.53E-10 | 4.74E-09 | 5.91E-10 | 5.91E-10 | 2.92E-10 | 6.57E-09 |
| 415 | 258524.46 | 4086167.54 | 4.36E-09 | 5.82E-08 | 8.61E-08 | 8.61E-09 | 4.80E-09 | 8.46E-08 | 5.61E-10 | 8.87E-09 | 1.34E-09 | 1.34E-09 | 7.39E-10 | 1.30E-08 | 3.59E-10 | 4.80E-09 | 5.98E-10 | 5.98E-10 | 2.96E-10 | 6.65E-09 |
| 416 | 258502.21 | 4086177.83 | 4.42E-09 | 5.90E-08 | 8.73E-09 | 8.73E-08 | 4.87E-09 | 8.57E-08 | 6.70E-10 | 8.99E-09 | 1.36E-09 | 1.36E-09 | 7.49E-10 | 1.31E-08 | 3.64E-10 | 4.86E-09 | 6.06E-10 | 6.06E-10 | 3.00E-10 | 6.74E-09 |
| 417 | 258479.94 | 4085188.13 | 4.48E-09 | 5.98E-08 | 8.85E-09 | 8.85E-09 | 4.94E-09 | 8.69E-08 | 6.80E-10 | 9.11E-09 | 1.38E-09 | 1.38E-09 | 7.60E-10 | 1.33E-08 | 3.69E-10 | 4.93E-09 | 6.15E-10 | 6.15E-10 | 3.04E-10 | 6.84E-09 |
| 418 | 258457.67 | 4086198.43 | 4.54E-09 | 6.07E-08 | 8.97E-09 | 8.97E-09 | 5.00E-09 | 8.81E-08 | 6.89E-10 | 9.24E-09 | 1.40E-09 | 1.40E-09 | 7.70E-10 | 1.35E-08 | 3.74E-10 | 5.00E-09 | 6.23E-10 | 6.23E-10 | 3.09E-10 | 6.93E-09 |
| 419 | 258435.4 | 4086208.73 | 4.61E-09 | 8.16E-08 | 9.12E-09 | 9.12E-09 | 5.08E-09 | 8.96E-08 | 7.00E-10 | 9.39E-09 | 1.42E-09 | 1.42E-09 | 7.83E-10 | 1.37E-08 | 3.80E-10 | 5.08E-09 | 6.33E-10 | 6.33E-10 | 3.14E-10 | 7.04E-09 |
| 420 | 259463.99 | 4085088.02 | 4.71E-09 | 6.30E-08 | 9.32E-09 | 9.32E-09 | 5.19E-09 | 9.15E-08 | 7.16E-10 | 9.59E-09 | 1.43E-09 | 1.45E-09 | 8.00E-10 | 1.40E-08 | 3.89E-10 | 5.19E-09 | 6.47E-10 | 6.47E-10 | 3.20E-10 | 7.19E-09 |
| 421 | 259463.27 | 4085063.26 | 4.80E-09 | 6.42E-08 | 9.49E-09 | 9.49E-09 | 5.29E-09 | 9.33E-08 | 7.29E-10 | 9.78E-09 | 1.48E-09 | 1.48E-09 | 8.15E-10 | 1.43E-08 | 3.96E-10 | 5.29E-09 | 6.60E-10 | 6.60E-10 | 3.26E-10 | 7.33E-09 |
| 422 | 259462.55 | 4085038.51 | 4.92E-09 | 6.57E-08 | 9.72E-09 | 9.72E-09 | 5.42E-09 | 9.55E-08 | 7.47E-10 | 1.00E-08 | 1.52E-09 | 1.52E-09 | 8.34E-10 | 1.46E-08 | 4.05E-10 | 5.42E-09 | 6.75E-10 | 6.75E-10 | 3.34E-10 | 7.51E-09 |
| 423 | 259461.82 | 4085013.75 | 5.05E-09 | 6.75E-08 | 9.98E-09 | 9.96E-09 | 5.58E-09 | 9.80E-08 | 7.67E-10 | 1.03E-08 | 1.56E-09 | 1.56E-09 | 8.57E-10 | 1.50E-08 | 4.16E-10 | 5.56E-09 | 6.93E-10 | 6.93E-10 | 3.43E-10 | 7.71E-09 |
| 424 | 259461.1 | 4084989 | 5.21E-09 | 6.95E-08 | 1.03E-08 | 1.03E-08 | 5.74E-09 | 1.01E-07 | 7.90E-10 | 1.06E-08 | 1.61E-09 | 1.61E-09 | 8.85E-10 | 1.55E-08 | 4.29E-10 | 5.73E-09 | 7.15E-10 | 7.15E-10 | 3.54E-10 | 7.94E-09 |
| 425 | 259460.38 | 4084964.24 | 5.38E-09 | 7.18E-08 | 1.06E-08 | 1.06E-08 | 5.93E-09 | 1.04E-07 | 8.16E-10 | 1.09E-08 | 1.66E-09 | 1.66E-09 | 9.12E-10 | 1.60E-08 | 4.43E-10 | 5.92E-09 | 7.38E-10 | 7.38E-10 | 3.66E-10 | 6.21E-09 |
| 426 | 259459.66 | 4084939.48 | 5.37E-09 | 7.44E-08 | 1.10E-08 | 1.10E-08 | 6.13E-09 | 1.08E-07 | 8.45E-10 | 1.13E-08 | 1.72E-09 | 1.72E-09 | 9.45E-10 | 1.66E-08 | 4.59E-10 | 6.13E-09 | 7.64E-10 | 7.64E-10 | 3.78E-10 | 8.50E-09 |
| 427 | 259458.93 | 4084914.73 | 5.76E-09 | 7.70E-08 | 1.14E-08 | 1.14E-08 | 6.35E-09 | 1.12E-07 | 8.75E-10 | 1.17E-08 | 1.78E-09 | 1.78E-09 | 9.78E-10 | 1.71E-08 | 4.75E-10 | 6.35E-09 | 7.91E-10 | 7.91E-10 | 3.92E-10 | 8.79E-09 |
| 428 | 259458.21 | 4084889.97 | 5.96E-09 | 7.96E-08 | 1.18E-08 | 1.16E-08 | 6.56E-09 | 1.16E-07 | 9.04E-10 | 1.21E-08 | 1.84E-09 | 1.84E-09 | 1.01E-09 | 1.77E-08 | 4.91E-10 | 6.56E-09 | 8.18E-10 | 8.18E-10 | 4.05E-10 | 9.09E-09 |
| 429 | 259655.23 | 4085105.26 | 3.79E-09 | 5.06E-08 | 7.49E-09 | 7.49E-08 | 4.17E-09 | 7.35E-08 | 5.75E-10 | 7.71E-09 | 1.17E-09 | 1.17E-09 | 6.43E-10 | 1.13E-08 | 3.12E-10 | 4.17E-09 | 5.20E-10 | 5.20E-10 | 2.57E-10 | 5.78E-09 |
| 430 | 259646.55 | 4085128.33 | 3.78E-09 | 5.05E-08 | 7.47E-09 | 7.47E-08 | 4.17E-09 | 7.34E-08 | 5.74E-10 | 7.70E-09 | 1.17E-09 | 1.17E-09 | 6.42E-10 | 1.12E-08 | 3.12E-10 | 4.16E-09 | 5.19E-10 | 5.19E-10 | 2.57E-10 | 5.77E-09 |
| 431 | 259637.88 | 4085151.4 | 3.77E-09 | 5.04E-08 | 7.46E-09 | 7.46E-08 | 4.16E-09 | 7.33E-08 | 5.73E-10 | 7.68E-09 | 1.16E-09 | 1.16E-09 | 6.40E-10 | 1.12E-08 | 3.11E-10 | 4.16E-09 | 5.18E-10 | 5.16E-10 | 2.56E-10 | 5.76E-09 |
| 432 | 259629.2 | 4085174.47 | 3.75E-09 | 5.01E-08 | 7.42E-09 | 7.42E-08 | 4.14E-09 | 7.29E-08 | 5.70E-10 | 7.64E-09 | 1.16E-09 | 1.16E-09 | 6.37E-10 | 1.12E-08 | 3.09E-10 | 4.13E-09 | 5.15E-10 | 5.15E-10 | 2.55E-10 | 5.73E-09 |
| 433 | 259620.52 | 4085197.54 | 3.73E-09 | 4.98E-08 | 7.37E-09 | 7.37E-08 | 4.11E-09 | 7.24E-08 | 5.66E-10 | 7.59E-09 | 1.15E-09 | 1.15E-09 | 6.33E-10 | 1.11E-08 | 3.07E-10 | 4.11E-09 | 5.12E-10 | 5.12E-10 | 2.53E-10 | 5.69E-09 |
| 434 | 259611.84 | 4085220.61 | 3.70E-09 | 4.94E-08 | 7.30E-09 | 7.30E-08 | 4.07E-09 | 7.17E-08 | 5.61E-10 | 7.52E-09 | 1.14E-09 | 1.14E-09 | 6.27E-10 | 1.10E-08 | 3.05E-10 | 4.07E-09 | 5.07E-10 | 5.07E-10 | 2.51E-10 | 5.64E-09 |
| 435 | 259603.17 | 4085243.68 | 3.66E-09 | 4.88E-08 | 7.21E-09 | 7.21E-08 | 4.02E-09 | 7.09E-08 | 5.54E-10 | 7.43E-09 | 1.13E-09 | 1.13E-09 | 6.19E-10 | 1.09E-08 | 3.01E-10 | 4.02E-09 | 5.01E-10 | 5.01E-10 | 2.48E-10 | 5.57E-09 |
| 436 | 259594.49 | 4085266.75 | 3.39E-09 | 4.80E-08 | 7.10E-09 | 7.10E-08 | 3.96E-09 | 6.98E-08 | 5.46E-10 | 7.32E-09 | 1.11E-09 | 1.11E-09 | 6.10E-10 | 1.07E-08 | 2.96E-10 | 3.96E-09 | 4.94E-10 | 4.94E-10 | 2.44E-10 | 5.49E-09 |
| 437 | 259585.81 | 4085289.82 | 3.33E-09 | 4.72E-08 | 6.98E-09 | 6.98E-08 | 3.89E-09 | 6.86E-08 | 5.36E-10 | 7.19E-09 | 1.09E-09 | 1.09E-09 | 5.99E-10 | 1.05E-08 | 2.91E-10 |

| | | |

| | | |

| | | | UnMitigated | | | | | 2004 | T2L3 | | | | | | T4 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 9.92E-06 | | | | | | 1.52E-06 | | | | | | 7.80E-07 |
| | | | | | | | | 4085171.97 | | | | | | | | | | | | |
| | | | Yr 1 | Yr 2 | Yr 2 | Yr 4 | Yr 5 | Total | Yr 1 | Yr 2 | Yr 3 | Yr 4 | Yr 5 | Total | Yr 1 | Yr 2 | Yr 3 | Yr 4 | Yr 3 | Total |
| 1 | 238389.45 | 4085119.38 | 1.81E-07 | 2.41E-06 | 3.57E-07 | 3.57E-07 | 1.99E-07 | 3.51E-06 | 2.74E-08 | 3.67E-07 | 5.57E-08 | 5.57E-08 | 2.08E-08 | 5.27E-07 | 1.49E-08 | 1.99E-07 | 2.48E-08 | 2.46E-08 | 1.23E-08 | 2.76E-07 |
| 2 | 238388.73 | 4085094.62 | 2.88E-07 | 3.84E-06 | 3.69E-07 | 5.69E-07 | 3.17E-07 | 5.59E-06 | 4.37E-08 | 5.86E-07 | 8.88E-08 | 8.88E-08 | 3.32E-08 | 8.36E-07 | 2.37E-08 | 2.17E-07 | 3.95E-08 | 2.98E-08 | 1.96E-08 | 4.39E-07 |
| 2 | 258388 | 4085069.87 | 3.99E-07 | 5.33E-06 | 7.88E-07 | 7.88E-07 | 4.40E-07 | 7.74E-06 | 6.05E-08 | 8.12E-07 | 1.23E-07 | 1.22E-07 | 8.77E-08 | 1.19E-06 | 3.29E-08 | 4.39E-07 | 3.48E-08 | 5.46E-08 | 2.71E-08 | 6.09E-07 |
| 4 | 258387.28 | 4085045.11 | 4.69E-07 | 6.27E-06 | 9.27E-07 | 9.27E-07 | 5.17E-07 | 9.11E-06 | 7.12E-08 | 9.55E-07 | 1.45E-07 | 1.45E-07 | 7.98E-08 | 1.40E-06 | 3.87E-08 | 5.17E-07 | 6.44E-08 | 6.44E-08 | 3.19E-08 | 7.16E-07 |
| 5 | 258386.56 | 4085020.26 | 5.10E-07 | 6.81E-06 | 1.01E-06 | 1.01E-06 | 5.62E-07 | 9.89E-06 | 7.74E-08 | 1.04E-06 | 1.57E-07 | 1.57E-07 | 8.65E-08 | 1.52E-06 | 4.20E-08 | 3.61E-07 | 7.00E-08 | 7.00E-08 | 3.46E-08 | 7.78E-07 |
| 6 | 238365.84 | 4084995.6 | 5.29E-07 | 7.07E-06 | 1.05E-08 | 1.05E-06 | 5.83E-07 | 1.02E-05 | 8.03E-08 | 1.08E-06 | 1.63E-07 | 1.85E-07 | 8.98E-08 | 1.57E-06 | 4.36E-08 | 5.83E-07 | 7.26E-08 | 7.28E-08 | 3.60E-08 | 8.07E-07 |
| 7 | 258385.11 | 4084970.84 | 5.29E-07 | 7.07E-06 | 1.05E-06 | 1.05E-06 | 5.83E-07 | 1.03E-05 | 8.03E-08 | 1.08E-06 | 1.62E-07 | 1.63E-07 | 8.98E-08 | 1.57E-06 | 4.36E-08 | 5.85E-07 | 7.27E-08 | 7.27E-08 | 3.60E-08 | 8.08E-07 |
| 8 | 258384.39 | 4084948.09 | 5.07E-07 | 6.78E-06 | 1.00E-06 | 1.00E-06 | 5.59E-07 | 9.85E-06 | 7.70E-08 | 1.03E-06 | 1.57E-07 | 1.57E-07 | 8.61E-08 | 1.31E-06 | 4.18E-08 | 5.59E-07 | 6.97E-08 | 6.97E-08 | 3.43E-08 | 7.74E-07 |
| 9 | 258382.67 | 4084921.32 | 4.38E-07 | 5.85E-06 | 8.65E-07 | 8.65E-07 | 4.82E-07 | 8.49E-06 | 6.64E-08 | 8.90E-07 | 1.35E-07 | 1.35E-07 | 7.42E-08 | 1.30E-06 | 3.81E-08 | 4.82E-07 | 6.01E-08 | 6.01E-08 | 2.97E-08 | 6.68E-07 |
| 10 | 258407.76 | 4085136.4 | 1.11E-07 | 1.48E-06 | 2.20E-07 | 2.20E-07 | 1.22E-07 | 2.16E-08 | 1.69E-08 | 2.26E-07 | 3.43E-08 | 3.43E-08 | 1.89E-08 | 2.30E-07 | 9.16E-09 | 1.22E-07 | 1.53E-08 | 1.33E-08 | 7.53E-09 | 1.70E-07 |
| 11 | 258383.88 | 4083162.1 | 1.07E-07 | 1.43E-06 | 2.12E-07 | 2.12E-07 | 1.18E-07 | 2.08E-06 | 1.62E-08 | 2.18E-07 | 3.31E-08 | 3.31E-08 | 1.82E-08 | 3.19E-07 | 6.84E-09 | 1.18E-07 | 1.47E-08 | 1.47E-08 | 7.29E-09 | 1.64E-07 |
| 12 | 258412.77 | 4085092.9 | 1.77E-07 | 2.27E-06 | 3.50E-07 | 3.50E-07 | 1.95E-07 | 3.44E-06 | 2.89E-08 | 2.61E-07 | 3.47E-08 | 5.47E-08 | 3.01E-08 | 5.27E-07 | 1.46E-08 | 1.95E-07 | 2.43E-08 | 2.43E-08 | 1.20E-08 | 2.70E-07 |
| 13 | 258412.99 | 4085069.14 | 2.38E-07 | 2.18E-06 | 4.70E-07 | 4.70E-07 | 2.85E-07 | 4.62E-06 | 2.61E-08 | 4.84E-07 | 7.34E-08 | 7.34E-08 | 4.04E-08 | 7.07E-07 | 1.96E-08 | 2.62E-07 | 2.27E-08 | 2.27E-08 | 1.62E-08 | 2.85E-07 |
| 14 | 258412.27 | 4085044.38 | 2.90E-07 | 2.87E-06 | 5.72E-07 | 5.73E-07 | 3.19E-07 | 5.62E-06 | 4.40E-08 | 5.90E-07 | 8.94E-08 | 8.94E-08 | 4.91E-08 | 8.61E-07 | 2.39E-08 | 3.19E-07 | 3.98E-08 | 2.96E-08 | 1.97E-08 | 4.42E-07 |
| 15 | 258411.55 | 4085019.62 | 2.26E-07 | 4.38E-06 | 6.43E-07 | 6.45E-07 | 3.60E-07 | 6.34E-06 | 4.93E-08 | 6.64E-07 | 1.01E-07 | 1.01E-07 | 3.54E-08 | 9.70E-07 | 2.69E-06 | 3.59E-07 | 4.48E-08 | 4.48E-08 | 2.22E-08 | 4.98E-07 |
| 16 | 258410.63 | 4084994.87 | 2.49E-07 | 4.66E-06 | 6.89E-07 | 6.89E-07 | 3.84E-07 | 6.77E-06 | 3.29E-08 | 7.09E-07 | 1.08E-07 | 1.08E-07 | 3.91E-08 | 1.04E-06 | 2.87E-08 | 3.84E-07 | 4.78E-08 | 4.78E-08 | 2.37E-08 | 3.32E-07 |
| 17 | 258410.1 | 4084970.11 | 2.57E-07 | 4.77E-06 | 7.05E-07 | 7.03E-07 | 3.93E-07 | 6.93E-06 | 3.42E-08 | 7.26E-07 | 1.10E-07 | 1.10E-07 | 6.06E-08 | 1.06E-06 | 2.94E-06 | 3.93E-07 | 4.90E-08 | 4.90E-08 | 2.43E-08 | 3.43E-07 |
| 18 | 258409.38 | 4084945.36 | 3.50E-07 | 4.67E-06 | 8.91E-07 | 6.91E-07 | 2.85E-07 | 6.79E-06 | 5.31E-08 | 7.12E-07 | 1.08E-07 | 1.08E-07 | 5.94E-08 | 1.04E-06 | 2.68E-08 | 3.85E-07 | 4.60E-08 | 4.60E-08 | 2.38E-06 | 5.34E-07 |
| 19 | 258408.66 | 4084920.6 | 3.25E-07 | 4.34E-06 | 6.42E-07 | 6.42E-07 | 2.38E-07 | 8.30E-06 | 4.93E-08 | 6.61E-07 | 1.00E-07 | 1.00E-07 | 5.51E-08 | 9.83E-07 | 2.68E-08 | 2.57E-07 | 4.46E-08 | 4.48E-08 | 2.21E-06 | 4.93E-07 |
| 20 | 258432.75 | 4085133.67 | 8.75E-08 | 1.17E-06 | 1.73E-07 | 1.72E-07 | 9.64E-08 | 1.70E-06 | 1.33E-08 | 1.78E-07 | 2.70E-08 | 2.70E-08 | 1.48E-08 | 2.60E-07 | 7.21E-09 | 9.63E-08 | 1.20E-08 | 1.20E-08 | 5.93E-09 | 1.34E-07 |
| 21 | 258402.2 | 4085179.12 | 7.71E-08 | 1.03E-06 | 1.52E-07 | 1.52E-07 | 8.50E-08 | 1.50E-06 | 1.17E-08 | 1.57E-07 | 2.38E-08 | 2.36E-08 | 1.21E-08 | 2.29E-07 | 6.36E-09 | 6.49E-08 | 1.06E-08 | 1.06E-08 | 5.24E-09 | 1.18E-07 |
| 22 | 258438.71 | 4085093.17 | 1.26E-07 | 2.68E-06 | 2.48E-07 | 2.48E-07 | 1.38E-07 | 2.44E-06 | 1.91E-08 | 2.56E-07 | 3.88E-08 | 3.88E-08 | 2.13E-08 | 3.74E-07 | 1.04E-08 | 1.38E-07 | 1.73E-08 | 1.72E-08 | 6.54E-09 | 1.92E-07 |
| 22 | 258437.98 | 4085068.41 | 1.61E-07 | 2.18E-06 | 3.19E-07 | 3.19E-07 | 1.78E-07 | 2.13E-06 | 2.43E-08 | 3.28E-07 | 4.98E-08 | 4.98E-08 | 2.74E-08 | 4.80E-07 | 1.33E-08 | 1.78E-07 | 2.22E-08 | 2.22E-08 | 1.10E-06 | 2.46E-07 |
| 24 | 258427.26 | 4085042.65 | 1.97E-07 | 2.63E-06 | 2.89E-07 | 2.89E-07 | 2.17E-07 | 2.82E-06 | 2.99E-08 | 4.01E-07 | 6.08E-08 | 6.08E-08 | 2.34E-08 | 5.88E-07 | 1.85E-08 | 2.17E-07 | 2.70E-08 | 2.70E-08 | 1.34E-06 | 3.01E-07 |
| 25 | 258436.54 | 4085018.9 | 2.27E-07 | 3.03E-06 | 4.48E-07 | 4.63E-07 | 2.50E-07 | 4.60E-06 | 3.44E-08 | 4.61E-07 | 6.99E-08 | 6.99E-08 | 2.64E-06 | 6.74E-07 | 1.87E-08 | 2.50E-07 | 3.11E-08 | 3.11E-08 | 1.54E-06 | 3.46E-07 |
| 26 | 258435.82 | 4084994.14 | 2.48E-07 | 2.31E-06 | 4.89E-07 | 4.89E-07 | 2.73E-07 | 4.81E-06 | 3.76E-08 | 5.04E-07 | 7.64E-08 | 7.64E-06 | 4.20E-08 | 7.38E-07 | 2.04E-06 | 2.73E-07 | 3.40E-08 | 3.40E-08 | 1.68E-08 | 2.78E-07 |
| 27 | 258425.09 | 4084969.38 | 2.59E-07 | 3.46E-06 | 5.12E-07 | 5.12E-07 | 2.86E-07 | 5.03E-06 | 2.94E-08 | 5.28E-07 | 8.00E-08 | 8.00E-06 | 4.40E-08 | 7.71E-07 | 2.14E-08 | 2.65E-07 | 3.56E-08 | 3.58E-08 | 1.76E-06 | 3.96E-07 |
| 28 | 258424.37 | 4084944.63 | 2.61E-07 | 2.46E-06 | 5.15E-07 | 5.15E-07 | 2.87E-07 | 5.06E-06 | 2.96E-08 | 5.30E-07 | 8.04E-08 | 6.04E-08 | 4.42E-08 | 7.75E-07 | 2.15E-08 | 2.67E-07 | 2.58E-08 | 3.58E-08 | 1.77E-06 | 3.98E-07 |
| 29 | 258432.65 | 4084919.87 | 2.52E-07 | 2.36E-06 | 4.98E-07 | 4.96E-07 | 2.78E-07 | 4.89E-06 | 2.82E-08 | 5.12E-07 | 7.77E-08 | 7.77E-06 | 4.27E-08 | 7.49E-07 | 2.08E-08 | 2.77E-07 | 2.46E-06 | 2.46E-08 | 1.71E-06 | 3.84E-07 |
| 30 | 258457.74 | 4085134.94 | 7.14E-08 | 9.54E-07 | 1.41E-07 | 1.41E-07 | 7.67E-06 | 1.39E-06 | 1.03E-08 | 1.45E-07 | 2.20E-08 | 2.20E-08 | 1.21E-08 | 2.12E-07 | 5.89E-09 | 7.86E-08 | 9.80E-09 | 9.80E-09 | 4.85E-09 | 1.09E-07 |
| 21 | 258444.39 | 4085170.43 | 6.04E-08 | 8.07E-07 | 1.19E-07 | 1.19E-07 | 8.65E-08 | 1.17E-06 | 9.17E-09 | 1.23E-07 | 1.86E-08 | 1.86E-08 | 1.02E-08 | 1.80E-07 | 4.98E-09 | 6.65E-08 | 8.29E-09 | 8.29E-09 | 4.10E-09 | 9.22E-08 |
| 32 | 258420.51 | 4085196.14 | 5.93E-08 | 7.92E-07 | 1.17E-07 | 1.17E-07 | 6.52E-08 | 1.15E-06 | 8.99E-09 | 1.21E-07 | 1.85E-08 | 1.82E-08 | 1.01E-08 | 1.78E-07 | 4.85E-09 | 8.52E-08 | 8.14E-09 | 6.14E-09 | 4.02E-09 | 9.04E-08 |
| 33 | 258386.09 | 4085212.05 | 6.66E-08 | 8.89E-07 | 1.32E-07 | 1.32E-07 | 7.33E-08 | 1.29E-06 | 1.01E-08 | 1.35E-07 | 2.05E-08 | 2.05E-08 | 1.13E-06 | 1.98E-07 | 5.49E-09 | 7.23E-08 | 9.14E-09 | 9.14E-09 | 4.52E-09 | 1.02E-07 |
| 34 | 258463.69 | 4085092.44 | 9.62E-08 | 1.29E-06 | 1.90E-07 | 1.90E-07 | 1.06E-07 | 1.87E-06 | 1.46E-08 | 1.96E-07 | 2.97E-08 | 2.97E-08 | 1.63E-08 | 2.86E-07 | 7.94E-09 | 1.06E-07 | 1.22E-08 | 1.32E-08 | 6.54E-09 | 1.47E-07 |
| 25 | 258462.97 | 4085067.68 | 1.19E-07 | 1.59E-06 | 2.35E-07 | 2.35E-07 | 1.31E-07 | 2.31E-06 | 1.81E-08 | 2.42E-07 | 3.68E-08 | 2.68E-08 | 2.02E-08 | 2.54E-07 | 9.82E-09 | 1.21E-07 | 1.64E-08 | 1.64E-08 | 8.10E-09 | 1.82E-07 |
| 36 | 258462.25 | 4085042.92 | 1.44E-07 | 1.92E-06 | 2.84E-07 | 2.84E-07 | 1.58E-07 | 2.79E-06 | 2.18E-08 | 2.92E-07 | 4.43E-08 | 4.43E-08 | 2.44E-08 | 4.27E-07 | 1.18E-08 | 1.58E-07 | 1.97E-08 | 1.97E-08 | 9.76E-09 | 2.19E-07 |
| 27 | 258461.53 | 4085018.17 | 1.56E-07 | 2.22E-06 | 3.29E-07 | 3.29E-07 | 1.83E-07 | 3.23E-06 | 2.53E-08 | 3.39E-07 | 5.13E-08 | 5.13E-08 | 2.82E-08 | 4.93E-07 | 1.37E-08 | 1.63E-07 | 2.28E-08 | 2.28E-08 | 1.13E-08 | 2.54E-07 |
| 38 | 258460.8 | 4084993.41 | 1.85E-07 | 2.47E-06 | 3.65E-07 | 3.85E-07 | 2.03E-07 | 3.58E-06 | 2.80E-08 | 3.76E-07 | 5.70E-08 | 5.70E-08 | 3.12E-08 | 5.49E-07 | 1.52E-08 | 2.03E-07 | 2.33E-08 | 2.33E-08 | 1.25E-08 | 2.82E-07 |
| 39 | 258460.08 | 4084968.66 | 1.97E-07 | 2.63E-06 | 3.89E-07 | 3.89E-07 | 2.17E-07 | 3.82E-06 | 2.99E-08 | 4.00E-07 | 6.07E-08 | 6.07E-08 | 3.34E-08 | 5.85E-07 | 1.63E-08 | 2.17E-07 | 2.70E-08 | 2.70E-08 | 1.34E-06 | 3.00E-07 |
| 40 | 258459.36 | 4084943.9 | 2.02E-07 | 2.70E-06 | 3.99E-07 | 3.99E-07 | 2.23E-07 | 3.92E-06 | 3.07E-08 | 4.11E-07 | 8.23E-08 | 6.23E-08 | 2.43E-08 | 6.01E-07 | 1.67E-08 | 2.22E-07 | 2.77E-08 | 2.77E-08 | 1.27E-06 | 3.08E-07 |
| 41 | 258458.64 | 4084919.14 | 2.00E-07 | 2.87E-06 | 3.94E-07 | 3.94E-07 | 2.20E-07 | 3.87E-06 | 3.03E-08 | 4.06E-07 | 8.18E-06 | 6.16E-08 | 3.39E-08 | 5.93E-07 | 1.64E-08 | 2.20E-07 | 2.74E-08 | 2.74E-06 | 1.26E-08 | 3.05E-07 |
| 42 | 258506.39 | 4085137.03 | 5.06E-08 | 6.75E-07 | 9.89E-08 | 9.99E-08 | 5.57E-08 | 9.81E-07 | 7.67E-09 | 1.03E-07 | 1.56E-08 | 1.36E-08 | 8.38E-09 | 1.50E-07 | 4.17E-09 | 5.57E-08 | 8.94E-09 | 6.94E-09 | 3.44E-09 | 7.71E-08 |
| 43 | 258498.38 | 4085158.32 | 4.67E-08 | 6.24E-07 | 9.23E-08 | 9.22E-08 | 5.15E-08 | 9.07E-07 | 7.09E-09 | 9.50E-08 | 1.44E-08 | 1.44E-08 | 7.92E-09 | 1.39E-07 | 3.85E-09 | 5.14E-08 | 6.41E-09 | 6.41E-09 | 3.17E-09 | 7.13E-08 |
| 44 | 258490.37 | 4085179.62 | 4.32E-08 | 5.77E-07 | 8.53E-08 | 8.53E-08 | 4.76E-08 | 6.38E-07 | 6.55E-09 | 6.79E-08 | 1.33E-08 | 1.33E-08 | 7.32E-09 | 1.28E-07 | 2.56E-09 | 4.73E-08 | 5.93E-09 | 5.93E-09 | 2.93E-09 | 6.59E-08 |
| 45 | 258482.36 | 4085200.92 | 4.00E-08 | 5.35E-07 | 7.91E-08 | 7.91E-08 | 4.41E-08 | 7.77E-07 | 6.08E-09 | 8.15E-08 | 1.24E-08 | 1.24E-08 | 6.79E-09 | 1.19E-07 | 2.30E-09 | 4.41E-08 | 5.50E-09 | 5.50E-09 | 2.72E-09 | 6.11E-08 |
| 46 | 258453.7 | 4085231.76 | 3.94E-08 | 5.27E-07 | 7.80E-08 | 7.80E-08 | 4.35E-08 | 7.66E-07 | 5.99E-09 | 8.03E-08 | 1.22E-08 | 1.22E-08 | 6.69E-09 | 1.17E-07 | 2.25E-09 | 4.34E-08 | 5.42E-09 | 5.42E-09 | 2.68E-09 | 6.02E-08 |
| 47 | 258423.05 | 4085241.31 | 4.17E-08 | 5.58E-07 | 8.25E-08 | 8.25E-08 | 4.60E-08 | 8.10E-07 | 6.34E-09 | 8.50E-08 | 1.29E-08 | 1.29E-08 | 7.08E-09 | 1.24E-07 | 2.44E-09 | 4.60E-08 | 5.73E-09 | 5.73E-09 | 2.84E-09 | 6.27E-08 |
| 48 | 258412.4 | 4085250.86 | 4.41E-08 | 5.89E-07 | 8.71E-08 | 6.71E-08 | 4.86E-08 | 8.56E-07 | 6.69E-09 | 8.97E-08 | 1.36E-08 | 1.36E-08 | 7.48E-09 | 1.21E-07 | 2.64E-09 | 4.86E-08 | 6.05E-09 | 6.05E-09 | 3.00E-09 | 6.72E-08 |
| 49 | 258391.75 | 4085260.41 | 4.65E-08 | 6.21E-07 | 9.18E-08 | 9.16E-08 | 5.12E-08 | 9.02E-07 | 7.05E-09 | 9.46E-08 | 1.43E-08 | 1.43E-08 | 7.88E-09 | 1.38E-07 | 2.63E-09 | 5.12E-08 | 6.38E-09 | 6.38E-09 | 3.18E-09 | 7.09E-08 |
| 50 | 258514.4 | 4085115.73 | 5.46E-08 | 7.30E-07 | 1.08E-07 | 1.08E-07 | 6.02E-08 | 1.06E-06 | 8.29E-09 | 1.11E-07 | 1.89E-08 | 1.69E-08 | 9.27E-09 | 1.63E-07 | 4.50E-09 | 6.02E-08 | 7.50E-09 | 7.50E-09 | 3.71E-09 | 8.34E-08 |
| 51 | 258513.67 | 4085090.98 | 6.40E-08 | 8.55E-07 | 1.26E-07 | 1.26E-07 | 7.05E-08 | 1.24E-06 | 9.71E-09 | 1.30E-07 | 1.97E-08 | 1.97E-08 | 1.05E-08 | 1.90E-07 | 3.27E-09 | 7.04E-08 | 6.78E-09 | 6.78E-09 | 4.35E-09 | 9.76E-08 |
| 52 | 258512.95 | 4085066.22 | 7.52E-08 | 1.00E-06 | 1.49E-07 | 1.49E-07 | 8.28E-08 | 1.46E-06 | 1.14E-08 | 1.53E-07 | 2.32E-08 | 2.32E-08 | 1.28E-08 | 2.24E-07 | 6.20E-09 | 8.28E-08 | 1.03E-08 | 1.03E-08 | 3.11E-09 | 1.15E-07 |
| 52 | 258512.22 | 4085041.47 | 8.78E-08 | 1.17E-06 | 1.73E-07 | 1.73E-07 | 9.67E-08 | 1.70E-06 | 1.33E-08 | 1.79E-07 | 2.71E-08 | 2.71E-08 | 1.49E-08 | 2.81E-07 | 7.22E-09 | 9.66E-08 | 1.20E-08 | 1.20E-08 | 3.96E-09 | 1.34E-07 |
| 54 | 258511.51 | 4085016.71 | 1.01E-07 | 1.23E-06 | 1.99E-07 | 1.99E-07 | 1.11E-07 | 1.96E-06 | 1.53E-08 | 2.05E-07 | 3.11E-08 | 3.11E-08 | 1.71E-08 | 3.00E-07 | 8.30E-09 | 1.11E-07 | 1.38E-08 | 1.38E-08 | 6.85E-09 | 1.34E-07 |
| 55 | 258510.78 | 4084991.95 | 1.13E-07 | 1.51E-06 | 2.22E-07 | 2.23E-07 | 1.24E-07 | 2.19E-06 | 1.71E-08 | 2.30E-07 | 3.48E-08 | 3.48E-08 | 1.91E-08 | 3.36E-07 | 9.30E-09 | 1.24E-07 | 1.55E-08 | 1.55E-08 | 7.67E-09 | 1.72E-07 |
| 56 | 258510.06 | 4084967.2 | 1.22E-07 | 1.64E-06 | 2.42E-07 | 2.43E-07 | 1.33E-07 | 2.39E-06 | 1.87E-08 | 2.50E-07 | 3.79E-08 | 2.79E-08 | 2.09E-08 | 3.65E-07 | 1.01E-08 | 1.35E-07 | 1.69E-08 | 1.69E-08 | 8.35E-09 | 1.88E-07 |
| 57 | 258509.34 | 4084942.44 | 1.30E-07 | 1.74E-06 | 2.57E-07 | 2.57E-07 | 1.43E-07 | 2.52E-06 | 1.97E-08 | 2.65E-07 | 4.01E-08 | 4.01E-08 | 2.21E-08 | 3.87E-07 | 1.07E-08 | 1.43E-07 | 1.79E-08 | 1.79E-08 | 8.84E-09 | 1.98E-07 |
| 58 | 258508.62 | 4084917.68 | 1.34E-07 | 1.79E-06 | 2.64E-07 | 2.64E-07 | 1.47E-07 | 2.59E-06 | 2.03E-08 | 2.72E-07 | 4.12E-08 | 4.12E-08 | 2.27E-08 | 3.97E-07 | 1.10E-08 | 1.47E-07 | 1.84E-08 | 1.84E-08 | 9.08E-09 | 2.04E-07 |
| 59 | 258556.75 | 4085134.56 | 2.87E-08 | 5.17E-07 | 7.65E-06 | 7.65E-08 | 4.27E-08 | 7.52E-07 | 5.88E-09 | 7.88E-06 | 1.20E-08 | 1.20E-08 | 6.57E-09 | 1.15E-07 | 3.19E-09 | 4.26E-08 | 5.32E-09 | 5.22E-09 | 2.83E-09 | 5.91E-08 |
| 60 | 258541.49 | 4085175.12 | 2.42E-08 | 4.58E-07 | 6.77E-06 | 6.77E-08 | 2.78E-08 | 6.65E-07 | 5.20E-09 | 6.98E-06 | 1.06E-08 | 1.06E-08 | 5.82E-09 | 1.02E-07 | 2.83E-09 | 3.77E-08 | 4.71E-09 | 4.71E-09 | 2.23E-09 | 5.23E-08 |
| 61 | 258526.22 | 4085215.68 | 3.03E-08 | 4.05E-07 | 5.99E-08 | 5.99E-08 | 3.34E-08 | 5.89E-07 | 4.60E-09 | 6.17E-08 | 9.36E-09 | 9.36E-09 | 5.14E-09 | 9.02E-08 | 2.50E-09 | 2.34E-08 | 4.18E-09 | 4.18E-09 | 2.06E-09 | 4.63E-08 |
| 82 | 258491.31 | 4085265.34 | 2.83E-08 | 3.78E-07 | 5.59E-08 | 5.59E-06 | 3.12E-08 | 5.49E-07 | 4.29E-09 | 5.73E-08 | 6.73E-09 | 6.73E-09 | 4.80E-09 | 8.41E-08 | 2.23E-09 | 2.11E-08 | 3.88E-09 | 3.88E-09 | 1.92E-09 | 4.32E-08 |
| 63 | 258451.98 | 4085283.53 | 3.10E-08 | 4.14E-07 | 6.12E-08 | 6.12E-06 | 3.41E-08 | 6.01E-07 | 4.70E-09 | 6.50E-08 | 9.56E-09 | 9.56E-09 | 5.26E-09 | 9.21E-08 | 2.55E-09 | 2.41E-08 | 4.23E-09 | 4.23E-09 | 2.11E-09 | 4.72E-08 |
| 64 | 258412.84 | 4085301.72 | 3.37E-08 | 4.51E-07 | 6.67E-08 | 6.67E-08 | 2.72E-08 | 8.55E-07 | 5.12E-09 | 6.86E-06 | 1.04E-08 | 1.04E-08 | 5.72E-09 | 1.00E-07 | 2.78E-09 | 3.71E-08 | 4.63E-09 | 4.63E-09 | 2.29E-09 | 5.15E-08 |
| 65 | 258562.65 | 4085089.52 | 4.66E-08 | 6.22E-07 | 9.20E-08 | 9.20E-08 | 5.13E-08 | 9.04E-07 | 7.07E-09 | 9.47E-06 | 1.44E-08 | 1.44E-08 | 7.90E-09 | 1.38E-07 | 3.84E-09 | 5.13E-08 | 6.39E-09 | 6.39E-09 | 3.16E-09 | 7.11E-08 |
| 66 | 258562.93 | 4085064.76 | 5.30E-08 | 7.08E-07 | 1.05E-07 | 1.05E-07 | 5.84E-08 | 1.03E-06 | 8.04E-09 | 1.06E-07 | 1.63E-08 | 1.63E-08 | 8.99E-09 | 1.58E-07 | 4.37E-09 | 5.83E-08 | 7.27E-09 | 7.27E-09 | 3.60E-09 | 6.08E-08 |
| 67 | 258562.21 | 4085040.01 | 6.02E-08 | 8.04E-07 | 1.19E-07 | 1.19E-07 | 6.63E-08 | 1.17E-06 | 9.14E-09 | 1.23E-07 | 1.88E-08 | 1.86E-08 | 1.02E-08 | 1.79E-07 | 4.96E-09 | 6.63E-08 | 6.27E-09 | 6.27E-09 | 4.09E-09 | 9.19E-08 |
| 68 | 258561.48 | 4085015.23 | 6.80E-08 | 9.08E-07 | 1.34E-07 | 1.34E-07 | 7.49E-08 | 1.32E-06 | 1.03E-08 | 1.38E-07 | 2.10E-08 | 2.10E-08 | 1.15E-08 | 2.02E-07 | 5.60E-09 | 7.48E-08 | 9.33E-09 | 9.23E-09 | 4.63E-09 | 1.04E-07 |
| 69 | 258560.76 | 4084990.49 | 7.58E-08 | 1.01E-06 | 1.50E-07 | 1.50E-07 | 8.35E-08 | 1.47E-06 | 1.15E-08 | 1.54E-07 | 2.34E-08 | 2.34E-08 | 1.29E-08 | 2.25E-07 | 6.24E-09 | 8.54E-08 | 1.04E-08 | 1.04E-08 | 5.15E-09 | 1.16E-07 |
| 70 | 258560.04 | 4084965.74 | 8.30E-08 | 1.11E-06 | 1.64E-07 | 1.64E-07 | 9.15E-08 | 1.61E-06 | 1.26E-06 | 1.69E-07 | 2.56E-08 | 2.36E-08 | 1.41E-08 | 2.47E-07 | 6.84E-09 | 9.14E-08 | 1.14E-08 | 1.14E-08 | 5.64E-09 | 1.27E-07 |
| 71 | 258559.32 | 4084940.98 | 8.92E-08 | 1.19E-06 | 1.76E-07 | 1.76E-07 | 9.63E-08 | 1.73E-06 | 1.35E-08 | 1.82E-07 | 2.73E-08 | 2.73E-08 | 1.51E-08 | 2.65E-07 | 7.35E-09 | 9.82E-08 | 1.22E-08 | 1.22E-08 | 6.06E-09 | 1.36E-07 |
| 72 | 258558.59 | 4084916.23 | 9.38E-08 | 1.25E-06 | 1.85E-07 | 1.85E-07 | 1.03E-07 | 1.82E-06 | 1.42E-08 | 1.91E-07 | 2.89E-08 | 2.89E-08 | 1.59E-08 | 2.79E-07 | 7.73E-09 | 1.03E-07 | 1.29E-08 | 1.29E-08 | 6.37E-09 | 1.43E-07 |
| 73 | 258606.01 | 4085135 | 2.06E-08 | 4.08E-07 | 6.04E-08 | 6.04E-08 | 3.27E-08 | 5.94E-07 | 4.64E-09 | 6.22E-08 | 9.43E-09 | 9.43E-09 | 5.19E-09 | 9.09E-08 | 2.52E-09 | 3.37E-08 | 4.20E-09 | 4.20E-09 | 2.08E-09 | 4.67E-08 |
| 74 | 258597.67 | 4085157.16 | 2.90E-08 | 3.67E-07 | 5.72E-06 | 5.72E-08 | 3.19E-08 | 5.62E-07 | 4.39E-09 | 5.89E-08 | 8.92E-09 | 8.92E-09 | 4.91E-09 | 8.61E-08 | 2.39E-09 | 2.19E-08 | 2.98E-09 | 2.98E-09 | 1.97E-09 | 4.42E-08 |
| 75 | 258589.32 | 4085179.36 | 2.74E-08 | 3.65E-07 | 5.41E-06 | 5.41E-08 | 3.01E-08 | 5.21E-07 | 4.15E-09 | 5.57E-08 | 8.44E-09 | 8.44E-09 | 4.64E-09 | 8.14E-08 | 2.26E-09 | 3.01E-08 | 3.76E-09 | 2.76E-09 | 1.86E-09 | 4.18E-08 |
| 76 | 258580.98 | 4085201.55 | 2.58E-08 | 2.45E-07 | 5.10E-06 | 5.10E-08 | 2.84E-08 | 5.01E-07 | 2.92E-09 | 5.25E-08 | 7.97E-09 | 7.97E-09 | 4.38E-09 | 7.68E-08 | 2.12E-09 | 2.84E-08 | 3.34E-09 | 2.34E-09 | 1.75E-09 | 3.94E-08 |
| 77 | 258573.64 | 4085223.73 | 2.44E-08 | 2.25E-07 | 4.82E-06 | 4.82E-08 | 2.68E-08 | 4.73E-07 | 3.70E-09 | 4.96E-08 | 7.52E-09 | 7.52E-09 | 4.12E-09 | 7.25E-08 | 2.01E-09 | 2.68E-08 | 2.33E-09 | 2.33E-09 | 1.66E-09 | 3.72E-08 |
| 78 | 258564.29 | 4085245.91 | 2.30E-08 | 3.07E-07 | 4.55E-06 | 4.53E-08 | 2.34E-08 | 4.47E-07 | 3.49E-09 | 4.68E-08 | 7.10E-09 | 7.10E-09 | 2.90E-09 | 8.84E-08 | 1.90E-09 | 2.53E-08 | 3.18E-09 | 3.18E-09 | 1.56E-09 | 3.51E-08 |
| 79 | 258355.95 | 4085268.1 | 2.18E-08 | 2.91E-07 | 4.31E-06 | 4.31E-08 | 2.40E-08 | 4.22E-07 | 3.31E-09 | 4.43E-08 | 6.73E-09 | 6.73E-09 | 3.70E-09 | 8.48E-08 | 1.80E-09 | 2.40E-08 | 2.89E-09 | 2.99E-09 | 1.48E-09 | 3.33E-08 |
| 80 | 258526.1 | 4085300.22 | 2.16E-08 | 2.68E-07 | 4.26E-06 | 4.26E-08 | 2.37E-08 | 4.18E-07 | 3.27E-09 | 4.39E-08 | 6.63E-09 | 6.63E-09 | 3.66E-09 | 6.41E-06 | 1.78E-09 | 2.37E-08 | 2.96E-09 | 2.96E-09 | 1.46E-09 | 3.79E-08 |
| 61 | 258504.59 | 4085310.17 | 2.25E-08 | 3.01E-07 | 4.45E-06 | 4.45E-08 | 2.48E-08 | 4.37E-07 | 3.42E-09 | 4.56E-08 | 6.95E-09 | 6.95E-09 | 3.82E-09 | 6.69E-08 | 1.86E-09 | 2.48E-08 | 2.09E-09 | 2.09E-09 | 1.53E-09 | 3.44E-08 |
| 82 | 258483.08 | 4085320.12 | 2.35E-08 | 3.14E-07 | 4.65E-06 | 4.65E-08 | 2.59E-08 | 4.57E-07 | 3.57E-09 | 4.79E-08 | 7.28E-09 | 7.28E-09 | 3.99E-09 | 7.00E-06 | 1.94E-09 | 2.59E-08 | 3.23E-09 | 3.23E-09 | 1.60E-09 | 3.59E-08 |
| 83 | 258461.56 | 4085330.07 | 2.46E-08 | 2.28E-07 | 4.85E-06 | 4.85E-08 | 2.71E-08 | 4.77E-07 | 2.73E-09 | 5.00E-08 | 7.58E-09 | 7.58E-09 | 4.17E-09 | 7.50E-08 | 2.01E-09 | 2.70E-08 | 3.37E-09 | 3.37E-09 | 1.67E-09 | 3.75E-08 |
| 84 | 258440.05 | 4085340.02 | 2.56E-08 | 2.41E-07 | 5.05E-06 | 5.05E-08 | 2.85E-08 | 4.96E-07 | 2.88E-09 | 5.20E-08 | 7.88E-09 | 7.88E-09 | 4.33E-09 | 7.60E-08 | 2.11E-09 | 2.81E-08 | 3.51E-09 | 3.51E-09 | 1.74E-09 | 3.90E-08 |
| 85 | 258418.54 | 4085349.97 | 2.65E-08 | 2.55E-07 | 5.25E-06 | 5.25E-08 | 2.92E-08 | 5.15E-07 | 4.03E-09 | 5.40E-08 | 8.19E-09 | 8.19E-09 | 4.50E-09 | 7.89E-08 | 2.19E-09 | 2.92E-08 | 3.64E-09 | 3.64E-09 | 1.80E-09 | 4.05E-08 |
| 86 | 258397.03 | 4085259.92 | 2.78E-08 | 3.68E-07 | 5.43E-06 | 3.43E-08 | 2.04E-08 | 5.35E-07 | 4.18E-09 | 3.61E-08 | 8.51E-09 | 8.51E-09 | 4.68E-09

| PM 10 | | | | |
|---|---|---|---|---|
| Tons/Yr | T2 | T2L3 | T4f | |
| Year 1 | 0.00848 | 0.001287 | 0.000699 | 0 |
| Year 2 | 0.12265 | 0.018685 | 0.01011 | 0 |
| Year 3 | 0.0904 | 0.014115 | 0.00628 | 0 |
| Year 4 | 0.0904 | 0.014115 | 0.00628 | 0 |
| Year 5 | 0.0504 | 0.00776 | 0.003109 | 0 |

| PM 2.5 | | | | |
|---|---|---|---|---|
| Tons/Yr | T4i | T4f | | |
| Year 1 | 2.99E-02 | 2.02E-02 | 0 | 0 |
| Year 2 | 2.60E-02 | 2.03E-02 | 0 | 0 |
| Year 3 | 2.14E-02 | 1.61E-02 | 0 | 0 |
| Year 4 | 2.14E-02 | 1.62E-02 | 0 | 0 |
| Year 5 | 1.66E-02 | 1.14E-02 | 0 | 0 |

| PM 10 | | | | |
|---|---|---|---|---|
| Lbs /Yr | T2 | T2L3 | T4f | 0 |
| Year 1 | 16.96 | 2.574 | 1.398 | 0 |
| Year 2 | 245.3 | 37.37 | 20.22 | 0 |
| Year 3 | 180.8 | 28.23 | 12.56 | 0 |
| Year 4 | 180.8 | 28.23 | 12.56 | 0 |
| Year 5 | 100.8 | 15.52 | 6.217 | 0 |

| PM 2.5 | | | | |
|---|---|---|---|---|
| Lbs /Yr | T4i | T4f | 0 | 0 |
| Year 1 | 59.71 | 40.45 | 0 | 0 |
| Year 2 | 51.98 | 40.51 | 0 | 0 |
| Year 3 | 42.72 | 32.25 | 0 | 0 |
| Year 4 | 42.84 | 32.34 | 0 | 0 |
| Year 5 | 33.17 | 22.7 | 0 | 0 |

For Running Each Base Year

| PM 10 | | | | |
|---|---|---|---|---|
| % Chng | T2 | T2L3 | T4f | 0 |
| Year 1 | 100% | 15.2% | 8.2% | 0% |
| Year 2 | 100% | 15.2% | 8.2% | 0% |
| Year 3 | 100% | 15.6% | 6.9% | 0% |
| Year 4 | 100% | 15.6% | 6.9% | 0% |
| Year 5 | 100% | 15.4% | 6.2% | 0% |

| PM 2.5 | | | | |
|---|---|---|---|---|
| g/sec | T4i | T4f | 0 | 0 |
| Year 1 | 0.000859 | 0.000582 | 0 | 0 |
| Year 2 | 0.000748 | 0.000583 | 0 | 0 |
| Year 3 | 0.000614 | 0.000464 | 0 | 0 |
| Year 4 | 0.000616 | 0.000465 | 0 | 0 |
| Year 5 | 0.000477 | 0.000327 | 0 | 0 |

| \ | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 | Year 9 | Year 10 | Year 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T2 | 100.00% | 100.00% | 100.00% | 100.00% | 55.75% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| T2L3 | 15.2% | 15.2% | 15.6% | 15.6% | 8.6% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| T4f | 8.2% | 8.2% | 6.9% | 6.9% | 3.4% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |

| | | |
|---|---|---|
| | Comments | **Each year of construction is modeled separately and t receptor is summed to estimate the total exposure from construction emissions. Additionally, the starting age is increased for each year of construction.** |
| **School Pathway Parameters** | | |
| | Pathways | **Mandatory minimum Pathways** |
| | Deposition Rate | **0.02** |
| | TAH < 16 yrs. | **N** |
| | TAH ≥ 16 yrs. | **N** |
| | **Sensitive Receptors** | |
| **Sensitive Scenario Parameters** | | |
| | Starting Age | **3rd Trimester** |
| | Age Range | **3rd Trimester - 5 Year** |
| | Receptor Type | **Individual Resident** |
| | Assessment Type | **Cancer / Chronic / Acute** |
| | Exposure Duration | **1** |
| | Intake Rate | **RMP using the Derived Method** |
| | Comments | **Each year of construction is modeled separately and the impact to each receptor is summed to estimate the total exposure from construction emissions. Additionally, the starting age is increased for each year of construction.** |
| **Sensitive Pathway Parameters** | | |
| | Pathways | **Mandatory minimum Pathways** |
| | Deposition Rate | **0.02** |
| | TAH < 16 yrs. | **Y** |
| | TAH ≥ 16 yrs. | **Y** |
| | **Worker Receptors** | |
| **Worker Scenario Parameters** | | |
| | Starting Age | **16** |
| | Age Range | **16 - 20** |
| | Receptor Type | **Worker** |
| | Assessment Type | **Cancer / Chronic / Acute** |
| | Exposure Duration | **1** |
| | Intake Rate | **OEHHA Derived Method** |
| | Comments | **Each year of construction is modeled separately and the impact to each receptor is summed to estimate the total exposure from construction emissions. Additionally, the starting age is increased for each year of construction.** |
| **Worker Pathway Parameters** | | |
| | Pathways | **OEHHA minimum Pathways** |
| | Deposition Rate | **0.02** |
| | TAH < 16 yrs. | **N** |
| | TAH ≥ 16 yrs. | **N** |

| General AERMOD Input Parameters | | | |
|---|---|---|---|
| **Project Boundary** | | | |
| | **Based on site plan** | | |
| **Project Elevation Data** | | | |
| | Source | **Lakes Environmental** | |
| | Link | http://www.webgis.com/terraindata.html | |
| | Evel Data Descr. | **7.5 min DEM** | |
| **Project Receptor Grid** | | | |
| | Telescoping Grid | Spacing (m) | Distance (m) |
| | Grid 1 | **25** | **100** |
| | Grid 2 | **50** | **200** |
| | Grid 3 | **100** | **400** |
| | Grid 4 | **200** | **800** |
| | Comments | **Receptors on roads or paring lot areas have been removed.** | |
| **Meteorological Dataset** | | | |
| | Location | **Fresno** | |
| | Provided By | **San Joaquin Valley APCD** | |
| | Years | **2018-2022** | |
| | Elevation (m) | **100** | |
| | Link | | |
| **Construction Modeling Specific Inputs** | | | |
| **AERMOD Input Options** | | | |
| | Regulatory Options | **Default** | |
| | Pollutant Type | **Other** | |
| | Averaging Period | **Period & Hourly** | |
| | Dispersion Coefficient | **Rural** | |
| | County | **Fresno** | |
| | Urban Grouping / Pop | **N** | **0** |
| | # of Worker Receptors | **3,016** | |
| | # of Sensitive Receptors | | |
| | # of School Receptors | | |
| **Construction Area Parameters** | | | |
| | Source Type | **Polygon Area** | |
| | Project Area ($m^2$) | **145482.6** | |
| | Ht. of Source (m) | **3.048** | |

| General HARP Input Parameters | | |
|---|---|---|
| **Construction** | | |
| **School Receptors** | | |
| **School Scenario Parameters** | | |
| | Class Grade | **Daycare - 12** |
| | Starting Age | **3rd trimester** |
| | Age Range | **3rd trimester - 5 Year** |
| | Receptor Type | **Individual Resident** |
| | Assessment Type | **Cancer / Chronic / Acute** |
| | Exposure Duration | **1** |
| | Intake Rate | **RMP using the Derived Method** |

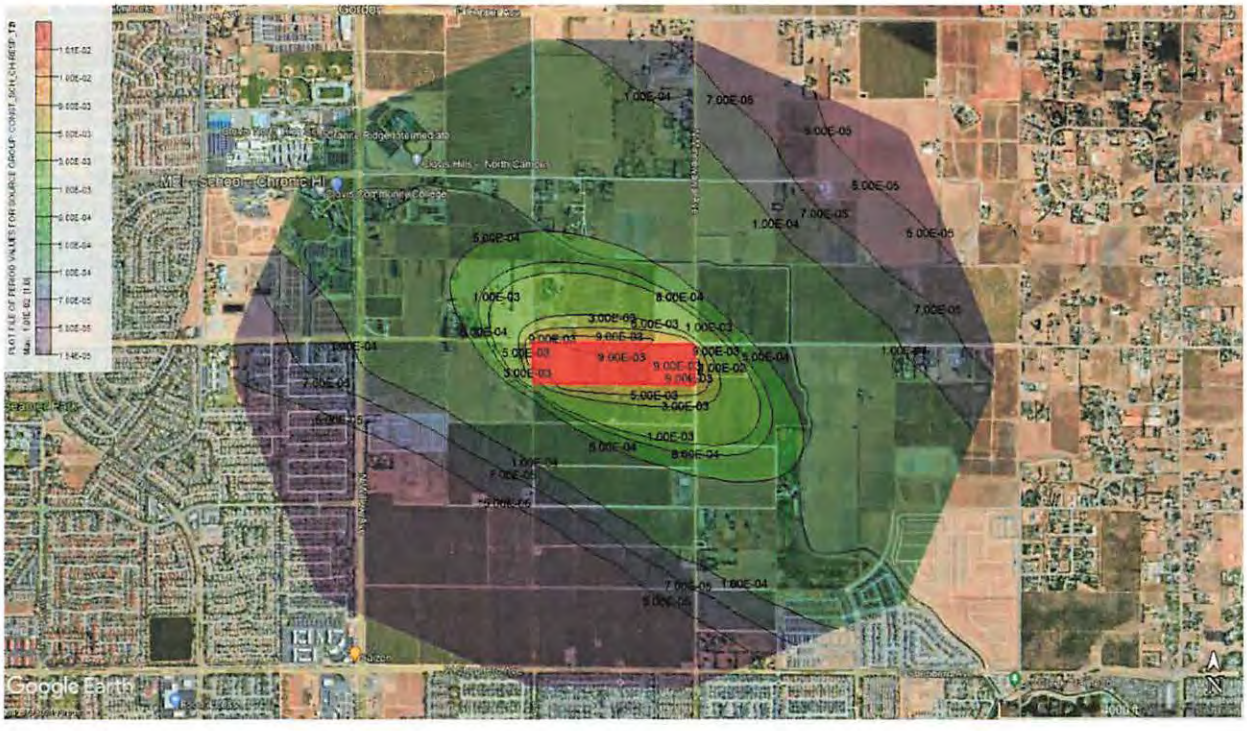
| | Zone | 11 | Process Coordinates | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Datum | WGS 1984 | | | | | | | | | | |
| | KML File Name | 20241700 Project MEI | | | | | | | | | Sensitive | |
| Description | Receptor Type | Model Type | UTM X | UTM Y | Latitude | Longitude | | Unmitigated | T2 | T2L3 | T4 | Row |
| Construction | Sensitive | Cancer Risk | 257758.52 | 4085171.97 | 36.88145626 | -119.7180447 | Col | 2 | 3 | 4 | 5 | 4 |
| Construction | Sensitive | Chronic HI | 257758.52 | 4085171.97 | 36.88145626 | -119.7180447 | | 2 | 3 | 4 | 5 | 7 |
| Construction | Sensitive | Acute HI | 0 | 0 | | | | 2 | 3 | 4 | 5 | 10 |
| Construction | Sensitive | PM 2.5 | 257758.52 | 4085171.97 | 36.88145626 | -119.7180447 | | 2 | 3 | 4 | 5 | 13 |
| Construction | School | Cancer Risk | 256582.52 | 4085895.32 | 36.8876671 | -119.7314585 | | 12 | 13 | 14 | 15 | 4 |
| Construction | School | Chronic HI | 256582.52 | 4085895.32 | 36.8876671 | -119.7314585 | | 12 | 13 | 14 | 15 | 7 |
| Construction | School | Acute HI | 0 | 0 | | | | 12 | 13 | 14 | 15 | 10 |
| Construction | School | PM 2.5 | 256582.52 | 4085895.32 | 36.8876671 | -119.7314585 | | 12 | 13 | 14 | 15 | 13 |
| Construction | Worker | Cancer Risk | 258385.11 | 4084970.84 | 36.87980574 | -119.7109572 | | 7 | 8 | 9 | 10 | 4 |
| Construction | Worker | Chronic HI | 258385.11 | 4084970.84 | 36.87980574 | -119.7109572 | | 7 | 8 | 9 | 10 | 7 |
| Construction | Worker | Acute HI | 0 | 0 | | | | 7 | 8 | 9 | 10 | 10 |
| Construction | Worker | PM 2.5 | 258385.11 | 4084970.84 | 36.87980574 | -119.7109572 | | 7 | 8 | 9 | 10 | 13 |

| Construction<br>MEI (Sensitive) - Cancer Risk (In a Million)<br>HARP Rec #: 2000<br>X: 257758.52 Y: 4085171.97 | | | |
|---|---|---|---|
| T2 | T2L3 | T4f | 0 |
| 9.92 | 1.52 | 0.78 | 0.00 |
| MEI (Sensitive) - Chronic Hazard Index<br>HARP Rec #: 2000<br>X: 257758.52 Y: 4085171.97 | | | |
| T2 | T2L3 | T4f | 0 |
| 9.78E-03 | 1.49E-03 | 8.06E-04 | 0.00E+00 |
| MEI (Sensitive) - Acute Hazard Index<br>HARP Rec #: NA<br>X: NA Y: NA | | | |
| T2 | T2L3 | T4f | 0 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| MEI (Sensitive) - PM 2.5<br>HARP Rec #: 2000<br>X: 257758.52 Y: 4085171.97 | | | |
| T2 | T2L3 | T4f | 0 |
| 0.049 | 0.007 | 0.004 | 0.000 |

| Construction<br>MEI (Worker) - Cancer Risk (In a Million)<br>HARP Rec #: 7<br>X: 258385.11 Y: 4084970.84 | | | |
|---|---|---|---|
| T2 | T2L3 | T4f | 0 |
| 6.05 | 0.94 | 0.41 | 0.00 |
| MEI (Worker) - Chronic Hazard Index<br>HARP Rec #: 7<br>X: 258385.11 Y: 4084970.84 | | | |
| T2 | T2L3 | T4f | 0 |
| 1.01E-02 | 1.54E-03 | 8.35E-04 | 0.00E+00 |
| MEI (Worker) - Acute Hazard Index<br>HARP Rec #: NA<br>X: NA Y: NA | | | |
| T2 | T2L3 | T4f | 0 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| MEI (Worker) - PM 2.5<br>HARP Rec #: 7<br>X: 258385.11 Y: 4084970.84 | | | |
| T2 | T2L3 | T4f | 0 |
| 0.051 | 0.008 | 0.004 | 0.000 |

| Construction<br>MEI (School) - Cancer Risk (In a Million)<br>HARP Rec #: 2823<br>X: 256582.52 Y: 4085895.32 | | | |
|---|---|---|---|
| T2 | T2L3 | T4f | 0 |
| 0.24 | 0.04 | 0.02 | 0.00 |
| MEI (School) - Chronic Hazard Index<br>HARP Rec #: 2823<br>X: 256582.52 Y: 4085895.32 | | | |
| T2 | T2L3 | T4f | 0 |
| 1.95E-04 | 2.97E-05 | 1.61E-05 | 0.00E+00 |
| MEI (School) - Acute Hazard Index<br>HARP Rec #: NA<br>X: NA Y: NA | | | |
| T2 | T2L3 | T4f | 0 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| MEI (School) - PM 2.5<br>HARP Rec #: 2823<br>X: 256582.52 Y: 4085895.32 | | | |
| T2 | T2L3 | T4f | 0 |
| 0.0010 | 0.0001 | 0.0001 | 0.0000 |

## Chronic Hazard Index – School Receptor



Cancer Risk – School Receptor



Chronic Hazard Index – Worker Receptor

## Chronic Hazard Index – Residential Receptor




## Cancer Risk – Worker Receptor



Cancer Risk – Residential Receptor




Receptor Grid

Project Location



# APPENDIX B

# HRA MODEL SNAPSHOTS AND OUTPUT

.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|---|---|---|---|

.18.2.2. Mitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|---|---|---|---|

## 3. User Changes to Default Data

| Screen | Justification |
|---|---|
| Land Use | The approximately 37-acre project site proposes to develop 266 single-family residences with 0.84 acres of park space. |
| Construction: Off-Road Equipment | Assuming the use of Tier 2 construction equipment. |
| Operations: Vehicle Data | Based on the project's trip generation, the proposed project would generate approximately 2,508 average daily trips. |
| Operations: Hearths | The proposed project would be all-electric; therefore, this analysis assumes no gas hearths or wood stoves. The default assumptions included 133 units with a gas hearth and 133 units without a fireplace; therefore, this assumes 133 units with an electric hearth and 133 units without a fireplace. |
| Operations: Energy Use | The proposed project would be all electric. |

.16.2. Process Boilers

| Equipment Type | Fuel Type | Number | Boiler Rating (MMBtu/hr) | Daily Heat Input (MMBtu/day) | Annual Heat Input (MMBtu/yr) |
|---|---|---|---|---|---|

.17. User Defined

| Equipment Type | Fuel Type |
|---|---|

.18. Vegetation

.18.1. Land Use Change

.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|---|---|---|---|

.18.1.2. Mitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|---|---|---|---|

.18.1. Biomass Cover Type

.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|---|---|---|

.18.1.2. Mitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|---|---|---|

.18.2. Sequestration

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| City Park | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |

### .14.2. Mitigated

| Land Use Type | Equipment Type | Refrigerant | GWP | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|---|---|---|---|---|---|---|---|
| Single Family Housing | Average room A/C & Other residential A/C and heat pumps | R-410A | 2,088 | < 0.005 | 2.50 | 2.50 | 10.0 |
| Single Family Housing | Household refrigerators and/or freezers | R-134a | 1,430 | 0.12 | 0.60 | 0.00 | 1.00 |
| City Park | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| City Park | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |

## .15. Operational Off-Road Equipment

### .15.1. Unmitigated

| Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|

### .15.2. Mitigated

| Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|

## .16. Stationary Sources

### .16.1. Emergency Generators and Fire Pumps

| Equipment Type | Fuel Type | Number per Day | Hours per Day | Hours per Year | Horsepower | Load Factor |
|---|---|---|---|---|---|---|

.12.2. Mitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|---|---|---|
| Single Family Housing | 8,588,923 | 28,925,571 |
| City Park | 0.00 | -268,502 |

## .13. Operational Waste Generation

### .13.1. Unmitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|---|---|---|
| Single Family Housing | 236 | — |
| City Park | 0.07 | — |

### .13.2. Mitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|---|---|---|
| Single Family Housing | 236 | — |
| City Park | 0.07 | — |

## .14. Operational Refrigeration and Air Conditioning Equipment

### .14.1. Unmitigated

| Land Use Type | Equipment Type | Refrigerant | GWP | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|---|---|---|---|---|---|---|---|
| Single Family Housing | Average room A/C & Other residential A/C and heat pumps | R-410A | 2,088 | < 0.005 | 2.50 | 2.50 | 10.0 |
| Single Family Housing | Household refrigerators and/or freezers | R-134a | 1,430 | 0.12 | 0.60 | 0.00 | 1.00 |
| City Park | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4941 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4942 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4943 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4944 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4945 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4946 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4947 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4948 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4949 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4950 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4951 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4952 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4953 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4954 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4955 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4956 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4957 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4958 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4959 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4960 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4961 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4962 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4963 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4964 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4965 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4966 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4967 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4968 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4969 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4970 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4971 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4972 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4973 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4974 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4975 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4976 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4977 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4978 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4979 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4980 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4981 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4982 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4983 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4984 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4985 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4986 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4987 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4988 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4989 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4990 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4991 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4992 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4993 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4994 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4995 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4996 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4997 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4998 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4999 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5000 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5001 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5002 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5003 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5004 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5005 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5006 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5007 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5008 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5009 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5010 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5011 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5012 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5013 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5014 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5015 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5016 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5017 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5018 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5019 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5020 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5021 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5022 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5023 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5024 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5025 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5026 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5027 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5028 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5029 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5030 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4838 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4839 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4840 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4841 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4842 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4843 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4844 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4845 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4846 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4847 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4848 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4849 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4850 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4851 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4852 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4853 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4854 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4855 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4856 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4857 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4858 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4859 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4860 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4861 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4862 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4863 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4864 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4865 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4866 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4867 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4868 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4869 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4870 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4871 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4872 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4873 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4874 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4875 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4876 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4877 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4878 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4879 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4880 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4881 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4882 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4883 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4884 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4885 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4886 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4887 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4888 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4889 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4890 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4891 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4892 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4893 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4894 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4895 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4896 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4897 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4898 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4899 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4900 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4901 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4902 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4903 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4904 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4905 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4906 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4907 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4908 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4909 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4910 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4911 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4912 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4913 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4914 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4915 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4916 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4917 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4918 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4919 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4920 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4921 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4922 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4923 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4735 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4736 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4737 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4738 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4739 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4740 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4741 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4742 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4743 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4744 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4745 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4746 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4747 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4748 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4749 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4750 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4751 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4752 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4753 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4754 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4755 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4756 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4757 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4758 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4759 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4760 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4761 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4762 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4763 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4764 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4765 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4766 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4767 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4768 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4769 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4770 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4771 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4772 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4773 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4774 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4775 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4776 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4777 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4778 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4779 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4780 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4781 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4782 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4783 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4784 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4785 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4786 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4787 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4788 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4789 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4790 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4791 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4792 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4793 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4794 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4795 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4796 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4797 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4798 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4799 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4800 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4801 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4802 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4803 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4804 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4805 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4806 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4807 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4808 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4809 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4810 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4811 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4812 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4813 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4814 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4815 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4816 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4817 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4818 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4819 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4820 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4821 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4822 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4823 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4824 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4632 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4633 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4634 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4635 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4636 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4637 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4638 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4639 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4640 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4641 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4642 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4643 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4644 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4645 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4646 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4647 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4648 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4649 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4650 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4651 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4652 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4653 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4654 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4655 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4656 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4657 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4658 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4659 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4660 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4661 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4662 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4663 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4664 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4665 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4666 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4667 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4668 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4669 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4670 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4671 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4672 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4673 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4674 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4675 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4676 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4677 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4678 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4679 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4680 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4681 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4682 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4683 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4684 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4685 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4686 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4687 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4688 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4689 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4690 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4691 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4692 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4693 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4694 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4695 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4696 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4697 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4698 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4699 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4700 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4701 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4702 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4703 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4704 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4705 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4706 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4707 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4708 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4709 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4710 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4711 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4712 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4713 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4714 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4715 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4716 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4717 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4529 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4530 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4531 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4532 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4533 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4534 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4535 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4536 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4537 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4538 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4539 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4540 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4541 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4542 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4543 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4544 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4545 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4546 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4547 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4548 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4549 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4550 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4551 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4552 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4553 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4554 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4555 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4556 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4557 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4558 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4559 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4560 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4561 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4562 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4563 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4564 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4565 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4566 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4567 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4568 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4569 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4570 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4571 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4572 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4573 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4574 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4575 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4576 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4577 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4578 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4579 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4580 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4581 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4582 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4583 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4584 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4585 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4586 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4587 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4588 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4589 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4590 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4591 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4592 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4593 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4594 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4595 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4596 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4597 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4598 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4599 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4600 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4601 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4602 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4603 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4604 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4605 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4606 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4607 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4608 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4609 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4610 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4611 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4612 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4613 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4614 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4426 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4427 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4428 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4429 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4430 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4431 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4432 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4433 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4434 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4435 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4436 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4437 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4438 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4439 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4440 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4441 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4442 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4443 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4444 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4445 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4446 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4447 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4448 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4449 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4450 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4451 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4452 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4453 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4454 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4455 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4456 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4457 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4458 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4459 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4460 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4461 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4462 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4463 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4464 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4465 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4466 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4467 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4468 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4469 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4470 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4471 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4472 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4473 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4474 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4475 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4476 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4477 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4478 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4479 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4480 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4481 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4482 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4483 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4484 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4485 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4486 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4487 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4488 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4489 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4490 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4491 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4492 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4493 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4494 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4495 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4496 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4497 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4498 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4499 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4500 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4501 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4502 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4503 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4504 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4505 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4506 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4507 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4508 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4509 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4510 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4511 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4512 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4513 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4514 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4515 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4323 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4324 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4325 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4326 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4327 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4328 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4329 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4330 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4331 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4332 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4333 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4334 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4335 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4336 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4337 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4338 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4339 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4340 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4341 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4342 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4343 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4344 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4345 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4346 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4347 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4348 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4349 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4350 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4351 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4352 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4353 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4354 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4355 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4356 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4357 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4358 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4359 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4360 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4361 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4362 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4363 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4364 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4365 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4366 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4367 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4368 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4369 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4370 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4371 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4372 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4373 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4374 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4375 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4376 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4377 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4378 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4379 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4380 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4381 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4382 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4383 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4384 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4385 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4386 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4387 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4388 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4389 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4390 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4391 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4392 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4393 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4394 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4395 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4396 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4397 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4398 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4399 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4400 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4401 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4402 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4403 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4404 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4405 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4406 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4407 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4408 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4220 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4221 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4222 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4223 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4224 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4225 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4226 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4227 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4228 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4229 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4230 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4231 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4232 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4233 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4234 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4235 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4236 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4237 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4238 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4239 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4240 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4241 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4242 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4243 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4244 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4245 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4246 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4247 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4248 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4249 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4250 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4251 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4252 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4253 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4254 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4255 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4256 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4257 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4258 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4259 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4260 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4261 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4262 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4263 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4264 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4265 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4266 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4267 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4268 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4269 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4270 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4271 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4272 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4273 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4274 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4275 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4276 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4277 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4278 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4279 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4280 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4281 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4282 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4283 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4284 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4285 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4286 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4287 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4288 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4289 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4290 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4291 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4292 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4293 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4294 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4295 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4296 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4297 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4298 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4299 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4300 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4301 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4302 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4303 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4304 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4305 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4306 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4307 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4308 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4309 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4117 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4118 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4119 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4120 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4121 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4122 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4123 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4124 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4125 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4126 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4127 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4128 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4129 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4130 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4131 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4132 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4133 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4134 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4135 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4136 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4137 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4138 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4139 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4140 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4141 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4142 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4143 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4144 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4145 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4146 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4147 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4148 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4149 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4150 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4151 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4152 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4153 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4154 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4155 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4156 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4157 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4158 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4159 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4160 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4161 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4162 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4163 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4164 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4165 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4166 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4167 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4168 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4169 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4170 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4171 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4172 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4173 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4174 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4175 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4176 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4177 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4178 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4179 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4180 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4181 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4182 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4183 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4184 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4185 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4186 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4187 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4188 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4189 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4190 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4191 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4192 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4193 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4194 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4195 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4196 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4197 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4198 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4199 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4200 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4201 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4202 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4014 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4015 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4016 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4017 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4018 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4019 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4020 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4021 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4022 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4023 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4024 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4025 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4026 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4027 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4028 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4029 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4030 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4031 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4032 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4033 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4034 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4035 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4036 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4037 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4038 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4039 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4040 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4041 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4042 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4043 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4044 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4045 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4046 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4047 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4048 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4049 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4050 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4051 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4052 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4053 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4054 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4055 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4056 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4057 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4058 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4059 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4060 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4061 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4062 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4063 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4064 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4065 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4066 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4067 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4068 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4069 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4070 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4071 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4072 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4073 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4074 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4075 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4076 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4077 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4078 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4079 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4080 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4081 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4082 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4083 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4084 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4085 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4086 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4087 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4088 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4089 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4090 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4091 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4092 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4093 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4094 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4095 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4096 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4097 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4098 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 4099 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3911 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3912 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3913 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3914 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3915 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3916 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3917 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3918 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3919 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3920 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3921 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3922 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3923 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3924 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3925 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3926 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3927 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3928 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3929 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3930 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3931 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3932 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3933 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3934 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3935 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3936 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3937 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3938 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3939 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3940 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3941 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3942 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3943 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3944 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3945 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3946 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3947 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3948 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3949 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3950 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3951 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3952 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3953 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3954 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3955 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3956 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3957 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3958 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3959 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3960 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3961 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3962 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3963 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3964 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3965 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3966 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3967 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3968 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3969 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3970 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3971 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3972 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3973 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3974 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3975 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3976 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3977 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3978 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3979 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3980 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3981 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3982 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3983 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3984 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3985 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3986 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3987 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3988 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3989 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3990 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3991 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3992 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3993 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3994 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3995 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3996 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3808 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3809 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3810 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3811 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3812 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3813 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3814 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3815 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3816 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3817 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3818 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3819 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3820 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3821 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3822 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3823 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3824 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3825 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3826 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3827 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3828 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3829 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3830 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3831 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3832 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3833 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3834 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3835 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3836 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3837 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3838 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3839 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3840 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3841 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3842 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3843 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3844 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3845 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3846 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3847 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3848 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3849 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3850 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3851 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3852 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3853 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3854 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3855 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3856 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3857 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3858 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3859 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3860 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3861 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3862 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3863 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3864 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3865 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3866 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3867 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3868 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3869 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3870 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3871 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3872 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3873 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3874 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3875 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3876 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3877 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3878 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3879 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3880 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3881 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3882 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3883 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3884 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3885 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3886 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3887 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3888 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3889 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3890 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3891 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3892 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3893 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3705 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3706 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3707 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3708 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3709 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3710 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3711 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3712 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3713 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3714 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3715 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3716 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3717 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3718 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3719 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3720 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3721 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3722 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3723 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3724 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3725 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3726 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3727 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3728 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3729 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3730 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3731 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3732 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3733 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3734 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3735 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3736 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3737 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3738 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3739 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3740 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3741 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3742 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3743 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3744 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3745 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3746 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3747 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3748 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3749 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3750 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3751 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3752 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3753 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3754 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3755 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3756 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3757 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3758 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3759 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3760 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3761 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3762 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3763 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3764 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3765 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3766 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3767 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3758 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3769 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3770 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3771 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3772 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3773 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3774 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3775 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3776 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3777 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3778 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3779 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3780 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3781 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3782 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3783 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3784 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3785 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3786 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3787 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3788 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3789 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3790 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3602 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3603 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3604 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3605 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3606 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3607 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3608 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3609 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3610 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3611 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3612 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3613 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3614 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3615 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3616 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3617 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3618 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3619 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3620 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3621 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3622 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3623 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3624 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3625 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3626 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3627 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3628 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3629 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3630 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3631 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3632 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3633 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3634 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3635 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3636 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3637 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3638 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3639 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3640 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3641 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3642 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3643 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3644 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3645 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3646 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3647 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3648 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3649 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3650 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3651 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3652 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3653 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3654 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3655 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3656 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3657 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3658 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3659 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3660 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3661 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3662 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3663 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3664 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3665 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3666 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3667 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3668 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3669 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3670 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3671 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3672 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3673 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3674 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3675 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3676 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3677 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3678 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3679 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3680 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3681 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3682 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3683 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3684 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3685 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3686 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3687 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3688 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3689 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3690 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3691 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3499 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3500 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3501 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3502 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3503 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3504 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3505 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3506 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3507 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3508 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3509 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3510 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3511 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3512 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3513 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3514 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3515 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3516 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3517 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3518 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3519 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3520 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3521 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3522 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3523 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3524 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3525 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3526 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3527 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3528 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3529 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3530 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3531 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3532 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3533 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3534 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3535 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3536 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3537 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3538 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3539 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3540 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3541 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3542 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3543 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3544 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3545 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3546 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3547 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3548 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3549 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3550 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3551 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3552 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3553 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3554 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3555 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3556 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3557 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3558 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3559 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3560 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3561 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3562 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3563 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3564 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3565 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3566 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3567 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3568 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3569 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3570 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3571 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3572 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3573 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3574 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3575 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3576 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3577 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3578 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3579 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3580 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3581 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3582 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3583 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3584 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3396 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3397 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3398 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3399 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3400 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3401 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3402 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3403 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3404 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3405 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3406 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3407 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3408 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3409 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3410 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3411 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3412 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3413 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3414 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3415 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3416 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3417 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3418 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3419 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3420 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3421 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3422 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3423 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3424 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3425 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3426 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3427 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3428 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3429 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3430 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3431 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3432 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3433 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3434 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3435 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3436 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3437 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3438 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3439 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3440 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3441 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3442 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3443 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3444 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3445 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3446 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3447 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3448 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3449 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3450 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3451 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3452 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3453 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3454 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3455 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3456 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3457 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3458 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3459 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3460 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3461 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3462 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3463 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3464 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3465 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3466 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3467 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3468 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3469 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3470 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3471 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3472 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3473 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3474 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3475 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3476 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3477 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3478 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3479 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3480 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3481 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3293 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3294 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3295 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3296 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3297 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3298 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3299 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3300 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3301 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3302 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3303 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3304 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3305 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3306 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3307 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3308 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3309 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3310 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3311 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3312 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3313 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3314 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3315 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3316 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3317 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3318 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3319 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3320 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3321 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3322 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3323 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3324 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3325 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3326 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3327 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3328 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3329 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3330 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3331 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3332 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3333 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3334 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3335 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3336 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3337 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3338 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3339 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3340 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3341 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3342 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3343 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3344 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3345 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3346 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3347 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3348 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3349 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3350 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3351 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3352 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3353 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3354 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3355 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3356 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3357 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3358 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3359 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3360 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3361 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3362 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3363 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3364 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3365 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3386 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3367 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3368 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3369 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3370 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3371 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3372 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3373 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3374 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3375 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3376 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3377 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3378 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3379 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3380 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3381 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3382 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3087 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3088 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3089 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3090 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3091 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3092 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3093 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3094 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3095 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3096 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3097 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3098 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3099 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3100 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3101 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3102 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3103 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3104 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3105 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3106 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3107 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3108 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3109 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3110 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3111 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3112 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3113 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3114 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3115 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3116 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3117 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3118 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3119 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3120 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3121 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3122 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3123 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3124 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3125 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3126 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3127 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3128 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3129 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3130 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3131 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3132 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3133 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3134 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3135 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3136 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3137 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3138 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3139 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3140 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3141 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3142 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3143 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3144 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3145 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3146 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3147 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3148 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3149 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3150 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3151 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3152 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3153 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3154 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3155 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3156 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3157 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3158 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3159 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3160 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3161 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3162 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3163 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3164 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3165 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3166 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3167 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3168 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3169 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3170 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3171 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3172 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2984 | 257653.8 | 4086653 | 7.07E-06 | 1.02E-04 | 7.54E-05 | 7.54E-05 | 4.20E-05 | 1.07E-06 | 1.56E-05 | 1.18E-05 | 1.18E-05 | 6.47E-06 | 5.83E-07 | 8.43E-06 | 5.24E-06 | 5.24E-06 | 2.59E-06 |
| 2985 | 257678.1 | 4086652 | 7.01E-06 | 1.01E-04 | 7.47E-05 | 7.47E-05 | 4.17E-05 | 1.06E-06 | 1.54E-05 | 1.17E-05 | 1.17E-05 | 6.41E-06 | 5.78E-07 | 8.36E-06 | 5.19E-06 | 5.19E-06 | 2.57E-06 |
| 2986 | 257702.4 | 4086651 | 6.95E-06 | 1.01E-04 | 7.41E-05 | 7.41E-05 | 4.13E-05 | 1.05E-06 | 1.53E-05 | 1.16E-05 | 1.16E-05 | 6.36E-06 | 5.73E-07 | 8.28E-06 | 5.15E-06 | 5.15E-06 | 2.55E-06 |
| 2987 | 257726.7 | 4086650 | 6.89E-06 | 9.97E-05 | 7.35E-05 | 7.35E-05 | 4.10E-05 | 1.05E-06 | 1.52E-05 | 1.15E-05 | 1.15E-05 | 6.31E-06 | 5.68E-07 | 8.22E-06 | 5.10E-06 | 5.10E-06 | 2.53E-06 |
| 2988 | 257750.9 | 4086649 | 6.83E-06 | 9.88E-05 | 7.29E-05 | 7.29E-05 | 4.06E-05 | 1.04E-06 | 1.51E-06 | 1.14E-05 | 1.14E-05 | 6.25E-06 | 5.63E-07 | 8.15E-06 | 5.06E-06 | 5.06E-06 | 2.51E-06 |
| 2989 | 257775.2 | 4086648 | 6.77E-06 | 9.80E-05 | 7.22E-05 | 7.22E-05 | 4.03E-05 | 1.03E-06 | 1.49E-05 | 1.13E-05 | 1.13E-05 | 6.20E-06 | 5.58E-07 | 8.08E-06 | 5.02E-06 | 5.02E-06 | 2.48E-06 |
| 2990 | 257799.5 | 4086647 | 6.71E-06 | 9.71E-05 | 7.16E-05 | 7.16E-05 | 3.99E-05 | 1.02E-06 | 1.48E-05 | 1.12E-05 | 1.12E-05 | 6.14E-06 | 5.53E-07 | 8.00E-06 | 4.97E-06 | 4.97E-06 | 2.46E-06 |
| 2991 | 257823.8 | 4086646 | 6.65E-06 | 9.61E-05 | 7.09E-05 | 7.09E-05 | 3.95E-05 | 1.01E-06 | 1.46E-05 | 1.11E-05 | 1.11E-05 | 6.08E-06 | 5.48E-07 | 7.92E-06 | 4.92E-06 | 4.92E-06 | 2.44E-06 |
| 2992 | 257848.1 | 4086644 | 6.58E-06 | 9.51E-05 | 7.01E-05 | 7.01E-05 | 3.91E-05 | 9.98E-07 | 1.45E-05 | 1.09E-05 | 1.09E-05 | 6.02E-06 | 5.42E-07 | 7.84E-06 | 4.87E-06 | 4.87E-06 | 2.41E-06 |
| 2993 | 257872.4 | 4086643 | 6.50E-06 | 9.40E-05 | 6.93E-05 | 6.93E-05 | 3.86E-05 | 9.86E-07 | 1.43E-05 | 1.08E-05 | 1.08E-05 | 5.95E-06 | 5.36E-07 | 7.75E-06 | 4.81E-06 | 4.81E-06 | 2.38E-06 |
| 2994 | 257896.6 | 4086642 | 6.41E-06 | 9.27E-05 | 6.84E-05 | 6.84E-05 | 3.81E-05 | 9.73E-07 | 1.41E-05 | 1.07E-05 | 1.07E-05 | 5.87E-06 | 5.29E-07 | 7.64E-06 | 4.75E-06 | 4.75E-06 | 2.35E-06 |
| 2995 | 257920.9 | 4086641 | 6.32E-06 | 9.14E-05 | 6.74E-05 | 6.74E-05 | 3.76E-05 | 9.59E-07 | 1.39E-05 | 1.05E-05 | 1.05E-05 | 5.78E-06 | 5.21E-07 | 7.53E-06 | 4.68E-06 | 4.68E-06 | 2.32E-06 |
| 2996 | 257945.2 | 4086640 | 6.22E-06 | 8.99E-05 | 6.63E-05 | 6.63E-05 | 3.70E-05 | 9.44E-07 | 1.37E-05 | 1.04E-05 | 1.04E-05 | 5.69E-06 | 5.13E-07 | 7.41E-06 | 4.61E-06 | 4.61E-06 | 2.28E-06 |
| 2997 | 257969.5 | 4086639 | 6.11E-06 | 8.84E-05 | 6.52E-05 | 6.52E-05 | 3.63E-05 | 9.28E-07 | 1.35E-05 | 1.02E-05 | 1.02E-05 | 5.59E-06 | 5.04E-07 | 7.29E-06 | 4.53E-06 | 4.53E-06 | 2.24E-06 |
| 2998 | 257993.8 | 4086638 | 6.00E-06 | 8.68E-05 | 6.40E-05 | 6.40E-05 | 3.57E-05 | 9.11E-07 | 1.32E-05 | 9.99E-06 | 9.99E-06 | 5.49E-06 | 4.95E-07 | 7.15E-06 | 4.44E-06 | 4.44E-06 | 2.20E-06 |
| 2999 | 258018 | 4086637 | 5.88E-06 | 8.51E-05 | 6.27E-05 | 6.27E-05 | 3.50E-05 | 8.93E-07 | 1.30E-05 | 9.79E-06 | 9.79E-06 | 5.38E-06 | 4.85E-07 | 7.01E-06 | 4.36E-06 | 4.36E-06 | 2.16E-06 |
| 3000 | 258042.3 | 4086636 | 5.76E-06 | 8.33E-05 | 6.14E-05 | 6.14E-05 | 3.42E-05 | 8.74E-07 | 1.27E-05 | 9.59E-06 | 9.59E-06 | 5.27E-06 | 4.75E-07 | 6.87E-06 | 4.27E-06 | 4.27E-06 | 2.11E-06 |
| 3001 | 258066.6 | 4086635 | 5.64E-06 | 8.16E-05 | 6.01E-05 | 6.01E-05 | 3.35E-05 | 8.56E-07 | 1.24E-05 | 9.39E-06 | 9.39E-06 | 5.16E-06 | 4.65E-07 | 6.72E-06 | 4.18E-06 | 4.18E-06 | 2.07E-06 |
| 3002 | 258090.9 | 4086634 | 5.52E-06 | 7.98E-05 | 5.88E-05 | 5.88E-05 | 3.28E-05 | 8.38E-07 | 1.22E-05 | 9.19E-06 | 9.19E-06 | 5.05E-06 | 4.55E-07 | 6.58E-06 | 4.09E-06 | 4.09E-06 | 2.02E-06 |
| 3003 | 258115.2 | 4086633 | 5.40E-06 | 7.82E-05 | 5.76E-05 | 5.76E-05 | 3.21E-05 | 8.20E-07 | 1.19E-05 | 8.99E-06 | 8.99E-06 | 4.94E-06 | 4.45E-07 | 6.44E-06 | 4.00E-06 | 4.00E-06 | 1.98E-06 |
| 3004 | 258139.5 | 4086632 | 5.29E-06 | 7.66E-05 | 5.64E-05 | 5.64E-05 | 3.15E-05 | 8.03E-07 | 1.17E-05 | 8.81E-06 | 8.81E-06 | 4.84E-06 | 4.36E-07 | 6.31E-06 | 3.92E-06 | 3.92E-06 | 1.94E-06 |
| 3005 | 258163.7 | 4086630 | 5.19E-06 | 7.51E-05 | 5.53E-05 | 5.53E-05 | 3.08E-05 | 7.88E-07 | 1.14E-05 | 8.64E-06 | 8.64E-06 | 4.75E-06 | 4.28E-07 | 6.19E-06 | 3.84E-06 | 3.84E-06 | 1.90E-06 |
| 3006 | 258188 | 4086629 | 5.10E-06 | 7.37E-05 | 5.43E-05 | 5.43E-05 | 3.03E-05 | 7.73E-07 | 1.12E-05 | 8.48E-06 | 8.48E-06 | 4.66E-06 | 4.20E-07 | 6.08E-06 | 3.77E-06 | 3.77E-06 | 1.87E-06 |
| 3007 | 258212.3 | 4086628 | 5.01E-06 | 7.24E-05 | 5.34E-06 | 5.34E-05 | 2.98E-05 | 7.60E-07 | 1.10E-05 | 8.34E-06 | 8.34E-06 | 4.58E-06 | 4.13E-07 | 5.97E-06 | 3.71E-06 | 3.71E-06 | 1.84E-06 |
| 3008 | 258236.6 | 4086627 | 4.93E-06 | 7.12E-05 | 5.25E-05 | 5.25E-06 | 2.93E-05 | 7.48E-07 | 1.09E-05 | 8.20E-06 | 8.20E-06 | 4.51E-06 | 4.06E-07 | 5.87E-06 | 3.65E-06 | 3.65E-06 | 1.81E-06 |
| 3009 | 258260.9 | 4086626 | 4.85E-06 | 7.01E-05 | 5.17E-05 | 5.17E-05 | 2.88E-05 | 7.36E-07 | 1.07E-05 | 8.07E-06 | 8.07E-06 | 4.44E-06 | 4.00E-07 | 5.78E-06 | 3.59E-06 | 3.59E-06 | 1.78E-06 |
| 3010 | 258285.1 | 4086625 | 4.77E-06 | 6.91E-05 | 5.09E-05 | 5.09E-05 | 2.84E-05 | 7.25E-07 | 1.05E-06 | 7.95E-06 | 7.95E-06 | 4.37E-06 | 3.94E-07 | 5.69E-06 | 3.54E-06 | 3.54E-06 | 1.75E-06 |
| 3011 | 258309.4 | 4086624 | 4.70E-06 | 6.80E-05 | 5.01E-05 | 5.01E-05 | 2.79E-05 | 7.14E-07 | 1.04E-05 | 7.83E-06 | 7.83E-06 | 4.30E-06 | 3.88E-07 | 5.61E-06 | 3.48E-06 | 3.48E-06 | 1.72E-06 |
| 3012 | 258333.7 | 4086623 | 4.63E-06 | 6.70E-05 | 4.94E-05 | 4.94E-05 | 2.75E-05 | 7.03E-07 | 1.02E-05 | 7.71E-06 | 7.71E-06 | 4.24E-06 | 3.82E-07 | 5.52E-06 | 3.43E-06 | 3.43E-06 | 1.70E-06 |
| 3013 | 258358 | 4086622 | 4.56E-06 | 6.60E-05 | 4.86E-05 | 4.86E-05 | 2.71E-05 | 6.92E-07 | 1.01E-05 | 7.59E-06 | 7.59E-06 | 4.17E-06 | 3.76E-07 | 5.44E-06 | 3.38E-06 | 3.36E-06 | 1.67E-06 |
| 3014 | 258382.3 | 4086621 | 4.49E-06 | 6.50E-05 | 4.79E-05 | 4.79E-05 | 2.67E-05 | 6.82E-07 | 9.90E-06 | 7.48E-06 | 7.48E-06 | 4.11E-06 | 3.70E-07 | 5.36E-06 | 3.33E-06 | 3.33E-06 | 1.65E-06 |
| 3015 | 258406.6 | 4086620 | 4.42E-06 | 6.40E-05 | 4.72E-05 | 4.72E-05 | 2.63E-05 | 6.71E-07 | 9.75E-06 | 7.36E-06 | 7.36E-06 | 4.05E-06 | 3.65E-07 | 5.27E-06 | 3.28E-06 | 3.28E-06 | 1.62E-06 |
| 3016 | 258430.8 | 4086619 | 4.35E-06 | 6.30E-05 | 4.64E-05 | 4.64E-06 | 2.59E-05 | 6.61E-07 | 9.59E-06 | 7.25E-06 | 7.25E-06 | 3.98E-06 | 3.59E-07 | 5.19E-06 | 3.22E-06 | 3.22E-06 | 1.60E-06 |
| 3017 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3018 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3019 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3020 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3021 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3022 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3023 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3024 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3025 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3026 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3027 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3028 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3029 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3030 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3031 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3032 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3033 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3034 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3035 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3036 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3037 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3038 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3039 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3040 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3041 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3042 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3043 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3044 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3045 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3046 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3047 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3048 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3049 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3050 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3051 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3052 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3053 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3054 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3055 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3056 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3057 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3058 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3059 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3060 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3061 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3062 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3063 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3064 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3065 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3066 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3067 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3068 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3069 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3070 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3071 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3072 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3073 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3074 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3075 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3076 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3077 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3078 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3079 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3080 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3081 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3082 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3083 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3084 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3085 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3086 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2881 | 258252 | 4086426 | 5.85E-06 | 8.47E-05 | 6.24E-05 | 6.24E-05 | 3.48E-05 | 8.89E-07 | 1.29E-05 | 9.74E-06 | 9.74E-06 | 5.36E-06 | 4.83E-07 | 6.98E-06 | 4.34E-06 | 4.34E-06 | 1.15E-06 |
| 2882 | 258276.3 | 4086425 | 5.75E-06 | 8.32E-05 | 6.13E-05 | 6.13E-05 | 3.42E-05 | 8.73E-07 | 1.27E-05 | 9.58E-06 | 9.58E-06 | 5.27E-06 | 4.74E-07 | 6.86E-06 | 4.26E-06 | 4.26E-06 | 1.11E-06 |
| 2883 | 258300.6 | 4086424 | 5.65E-06 | 8.17E-05 | 6.02E-05 | 6.02E-05 | 3.36E-05 | 8.58E-07 | 1.25E-05 | 9.41E-06 | 9.41E-06 | 5.17E-06 | 4.66E-07 | 6.74E-06 | 4.19E-06 | 4.19E-06 | 2.07E-06 |
| 2884 | 258324.9 | 4086423 | 5.55E-06 | 8.02E-05 | 5.91E-05 | 5.91E-05 | 3.30E-05 | 8.42E-07 | 1.22E-05 | 9.23E-06 | 9.23E-06 | 5.08E-06 | 4.57E-07 | 6.61E-06 | 4.11E-06 | 4.11E-06 | 2.03E-06 |
| 2885 | 258349.1 | 4086422 | 5.44E-06 | 7.87E-05 | 5.80E-05 | 5.80E-05 | 3.23E-05 | 8.26E-07 | 1.20E-05 | 9.06E-06 | 9.06E-06 | 4.98E-06 | 4.48E-07 | 6.49E-06 | 4.03E-06 | 4.03E-06 | 1.99E-06 |
| 2886 | 258373.4 | 4086421 | 5.33E-06 | 7.71E-05 | 5.68E-05 | 5.68E-05 | 3.17E-05 | 8.09E-07 | 1.17E-05 | 8.87E-06 | 8.87E-06 | 4.88E-06 | 4.39E-07 | 6.36E-06 | 3.95E-06 | 3.95E-06 | 1.95E-06 |
| 2887 | 258397.7 | 4086420 | 5.22E-06 | 7.55E-05 | 5.57E-05 | 5.57E-05 | 3.10E-05 | 7.93E-07 | 1.15E-05 | 8.69E-06 | 8.69E-06 | 4.78E-06 | 4.31E-07 | 6.23E-06 | 3.87E-06 | 3.87E-06 | 1.91E-06 |
| 2888 | 258422 | 4086419 | 5.11E-06 | 7.40E-05 | 5.45E-05 | 5.45E-05 | 3.04E-05 | 7.76E-07 | 1.13E-05 | 8.51E-06 | 8.51E-06 | 4.68E-06 | 4.22E-07 | 6.10E-06 | 3.79E-06 | 3.79E-06 | 1.87E-06 |
| 2889 | 257607 | 4086646 | 7.27E-06 | 1.05E-04 | 7.75E-05 | 7.75E-05 | 4.32E-06 | 1.10E-06 | 1.60E-05 | 1.21E-05 | 1.21E-05 | 6.65E-06 | 5.99E-07 | 8.66E-06 | 5.38E-05 | 5.38E-06 | 2.68E-06 |
| 2890 | 257584.4 | 4086638 | 7.40E-06 | 1.07E-04 | 7.89E-05 | 7.89E-05 | 4.40E-06 | 1.12E-06 | 1.63E-05 | 1.23E-05 | 1.23E-05 | 6.77E-06 | 6.10E-07 | 8.83E-06 | 5.48E-05 | 5.48E-06 | 2.71E-06 |
| 2891 | 257561.8 | 4086629 | 7.55E-06 | 1.09E-04 | 8.05E-05 | 8.05E-05 | 4.49E-05 | 1.15E-06 | 1.66E-05 | 1.26E-05 | 1.26E-05 | 6.91E-06 | 6.22E-07 | 9.00E-06 | 5.59E-05 | 5.59E-06 | 2.77E-06 |
| 2892 | 257539.3 | 4086621 | 7.70E-06 | 1.11E-04 | 8.20E-05 | 8.20E-05 | 4.57E-05 | 1.17E-05 | 1.70E-05 | 1.28E-05 | 1.28E-05 | 7.04E-06 | 6.34E-07 | 9.18E-06 | 5.70E-06 | 5.70E-05 | 2.82E-06 |
| 2893 | 257516.7 | 4086613 | 7.85E-06 | 1.14E-04 | 8.37E-05 | 8.37E-05 | 4.67E-05 | 1.19E-05 | 1.73E-05 | 1.31E-05 | 1.31E-05 | 7.18E-06 | 6.47E-07 | 9.36E-06 | 5.81E-06 | 5.81E-06 | 2.88E-06 |
| 2894 | 257494.2 | 4086605 | 8.01E-06 | 1.16E-04 | 8.53E-05 | 8.53E-05 | 4.76E-05 | 1.22E-06 | 1.76E-05 | 1.33E-05 | 1.33E-05 | 7.33E-06 | 6.60E-07 | 9.54E-05 | 5.93E-06 | 5.93E-06 | 2.93E-06 |
| 2895 | 257471.6 | 4086596 | 8.16E-06 | 1.18E-04 | 8.70E-05 | 8.70E-05 | 4.85E-05 | 1.24E-06 | 1.80E-05 | 1.36E-05 | 1.36E-05 | 7.47E-06 | 6.73E-07 | 9.73E-05 | 6.04E-06 | 6.04E-06 | 2.99E-06 |
| 2896 | 257449 | 4086588 | 8.32E-06 | 1.20E-04 | 8.86E-05 | 8.86E-05 | 4.94E-05 | 1.26E-06 | 1.83E-05 | 1.38E-05 | 1.38E-05 | 7.61E-06 | 6.85E-07 | 9.91E-06 | 6.16E-06 | 6.16E-06 | 3.05E-06 |
| 2897 | 257426.5 | 4086580 | 8.46E-06 | 1.22E-04 | 9.02E-05 | 9.02E-05 | 5.03E-05 | 1.28E-06 | 1.86E-05 | 1.41E-05 | 1.41E-05 | 7.74E-06 | 6.98E-07 | 1.01E-05 | 6.27E-06 | 6.27E-06 | 3.10E-06 |
| 2898 | 257403.9 | 4086572 | 8.60E-06 | 1.24E-04 | 9.17E-05 | 9.17E-05 | 5.11E-05 | 1.31E-06 | 1.90E-05 | 1.43E-05 | 1.43E-05 | 7.87E-06 | 7.09E-07 | 1.03E-05 | 6.37E-06 | 6.37E-06 | 3.15E-06 |
| 2899 | 257381.3 | 4086563 | 8.74E-06 | 1.26E-04 | 9.31E-05 | 9.31E-05 | 5.19E-05 | 1.33E-06 | 1.93E-05 | 1.45E-05 | 1.45E-05 | 8.00E-06 | 7.20E-07 | 1.04E-05 | 6.47E-05 | 6.47E-05 | 3.20E-06 |
| 2900 | 257358.8 | 4086555 | 8.86E-06 | 1.28E-04 | 9.44E-05 | 9.44E-05 | 5.26E-05 | 1.34E-06 | 1.95E-05 | 1.47E-05 | 1.47E-05 | 8.11E-06 | 7.30E-07 | 1.06E-05 | 6.56E-06 | 6.56E-05 | 3.25E-06 |
| 2901 | 257336.2 | 4086547 | 8.97E-06 | 1.30E-04 | 9.56E-05 | 9.56E-05 | 5.33E-05 | 1.36E-06 | 1.98E-05 | 1.49E-05 | 1.49E-05 | 8.21E-06 | 7.39E-07 | 1.07E-05 | 6.64E-06 | 6.64E-05 | 3.29E-06 |
| 2902 | 257313.6 | 4086539 | 9.07E-06 | 1.31E-04 | 9.67E-05 | 9.67E-05 | 5.39E-05 | 1.38E-06 | 2.00E-05 | 1.51E-05 | 1.51E-05 | 8.30E-06 | 7.48E-07 | 1.08E-05 | 6.72E-06 | 6.72E-05 | 3.33E-06 |
| 2903 | 257291.1 | 4086530 | 9.17E-06 | 1.33E-04 | 9.78E-05 | 9.78E-05 | 5.45E-05 | 1.39E-06 | 2.02E-05 | 1.53E-05 | 1.53E-05 | 8.39E-06 | 7.56E-07 | 1.09E-05 | 6.79E-06 | 6.79E-05 | 3.36E-06 |
| 2904 | 257268.5 | 4086522 | 9.26E-06 | 1.34E-04 | 9.87E-05 | 9.87E-05 | 5.50E-05 | 1.41E-06 | 2.04E-05 | 1.54E-05 | 1.54E-05 | 8.48E-05 | 7.63E-07 | 1.10E-05 | 6.85E-06 | 6.85E-06 | 3.40E-06 |
| 2905 | 257246 | 4086514 | 9.36E-06 | 1.35E-04 | 9.98E-05 | 9.98E-05 | 5.56E-05 | 1.42E-06 | 2.06E-05 | 1.56E-05 | 1.56E-05 | 8.56E-06 | 7.71E-07 | 1.12E-05 | 6.93E-05 | 6.93E-06 | 3.43E-06 |
| 2906 | 257223.4 | 4086506 | 9.46E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.62E-05 | 1.44E-06 | 2.08E-05 | 1.58E-05 | 1.58E-05 | 8.66E-06 | 7.80E-07 | 1.13E-05 | 7.01E-06 | 7.01E-06 | 3.47E-06 |
| 2907 | 257200.8 | 4086498 | 9.56E-06 | 1.38E-04 | 1.02E-04 | 1.02E-04 | 5.68E-05 | 1.45E-06 | 2.11E-05 | 1.59E-05 | 1.59E-05 | 8.75E-06 | 7.88E-07 | 1.14E-05 | 7.08E-06 | 7.08E-06 | 3.50E-06 |
| 2908 | 257178.3 | 4086489 | 9.65E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.73E-05 | 1.46E-06 | 2.13E-05 | 1.61E-05 | 1.61E-05 | 8.83E-06 | 7.95E-07 | 1.15E-05 | 7.14E-06 | 7.14E-05 | 3.54E-06 |
| 2909 | 257155.7 | 4086481 | 9.74E-05 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.79E-05 | 1.48E-05 | 2.15E-05 | 1.62E-05 | 1.62E-05 | 8.91E-06 | 8.03E-07 | 1.16E-05 | 7.21E-06 | 7.21E-06 | 3.57E-06 |
| 2910 | 257133.1 | 4086473 | 9.83E-06 | 1.42E-04 | 1.05E-04 | 1.05E-04 | 5.84E-05 | 1.49E-06 | 2.17E-05 | 1.64E-05 | 1.64E-05 | 9.00E-06 | 8.10E-07 | 1.17E-05 | 7.28E-06 | 7.28E-05 | 3.60E-06 |
| 2911 | 257110.6 | 4086465 | 9.92E-06 | 1.43E-04 | 1.06E-04 | 1.06E-04 | 5.90E-05 | 1.51E-06 | 2.19E-05 | 1.65E-05 | 1.65E-05 | 9.08E-06 | 8.18E-07 | 1.18E-05 | 7.35E-06 | 7.35E-06 | 3.64E-06 |
| 2912 | 257088 | 4086456 | 1.00E-05 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.95E-05 | 1.52E-06 | 2.21E-05 | 1.67E-05 | 1.67E-05 | 9.16E-06 | 8.25E-07 | 1.19E-05 | 7.41E-06 | 7.41E-06 | 3.67E-06 |
| 2913 | 257065.4 | 4086448 | 1.01E-05 | 1.46E-04 | 1.08E-04 | 1.08E-04 | 6.00E-05 | 1.53E-06 | 2.22E-05 | 1.68E-05 | 1.68E-05 | 9.23E-06 | 8.32E-07 | 1.20E-05 | 7.47E-06 | 7.47E-06 | 3.70E-06 |
| 2914 | 257042.9 | 4086440 | 1.02E-05 | 1.47E-04 | 1.08E-04 | 1.08E-04 | 6.04E-05 | 1.54E-06 | 2.24E-05 | 1.69E-05 | 1.69E-05 | 9.30E-06 | 8.38E-07 | 1.21E-05 | 7.53E-06 | 7.53E-06 | 3.73E-06 |
| 2915 | 257020.3 | 4086432 | 1.02E-05 | 1.48E-04 | 1.09E-04 | 1.09E-04 | 6.08E-05 | 1.55E-06 | 2.25E-05 | 1.70E-05 | 1.70E-05 | 9.36E-06 | 8.43E-07 | 1.22E-05 | 7.58E-06 | 7.58E-06 | 3.75E-06 |
| 2916 | 256997.8 | 4086423 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.11E-05 | 1.56E-06 | 2.27E-05 | 1.71E-05 | 1.71E-05 | 9.42E-06 | 8.48E-07 | 1.23E-05 | 7.62E-06 | 7.62E-06 | 3.77E-06 |
| 2917 | 256975.2 | 4086415 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.14E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.45E-06 | 8.51E-07 | 1.23E-05 | 7.65E-06 | 7.65E-06 | 3.79E-06 |
| 2918 | 256952.6 | 4086407 | 1.04E-05 | 1.50E-04 | 1.10E-04 | 1.10E-04 | 6.16E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.48E-06 | 8.54E-07 | 1.23E-05 | 7.67E-06 | 7.67E-06 | 3.80E-06 |
| 2919 | 256930.1 | 4086399 | 1.04E-05 | 1.50E-04 | 1.11E-04 | 1.11E-04 | 8.16E-05 | 1.57E-06 | 2.29E-05 | 1.73E-05 | 1.73E-05 | 9.49E-06 | 8.55E-07 | 1.24E-05 | 7.68E-05 | 7.68E-05 | 3.80E-06 |
| 2920 | 256907.5 | 4086390 | 1.04E-05 | 1.50E-04 | 1.11E-04 | 1.11E-04 | 8.16E-05 | 1.57E-06 | 2.29E-05 | 1.73E-05 | 1.73E-05 | 9.49E-06 | 8.55E-07 | 1.24E-05 | 7.68E-05 | 7.68E-05 | 3.80E-06 |
| 2921 | 256884.9 | 4086382 | 1.04E-05 | 1.50E-04 | 1.11E-04 | 1.11E-04 | 8.16E-05 | 1.57E-06 | 2.28E-05 | 1.73E-05 | 1.73E-05 | 9.49E-06 | 8.54E-07 | 1.24E-05 | 7.68E-06 | 7.68E-05 | 3.80E-06 |
| 2922 | 256862.4 | 4086374 | 1.04E-05 | 1.50E-04 | 1.10E-04 | 1.10E-04 | 8.15E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.47E-06 | 8.53E-07 | 1.23E-05 | 7.67E-06 | 7.67E-06 | 3.79E-06 |
| 2923 | 256839.8 | 4086366 | 1.03E-05 | 1.50E-04 | 1.10E-04 | 1.10E-04 | 6.14E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.46E-06 | 8.52E-07 | 1.23E-05 | 7.66E-06 | 7.66E-06 | 3.79E-06 |
| 2924 | 256817.2 | 4086357 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.14E-05 | 1.57E-05 | 2.27E-05 | 1.72E-05 | 1.72E-05 | 9.45E-06 | 8.51E-07 | 1.23E-05 | 7.65E-06 | 7.65E-06 | 3.78E-06 |
| 2925 | 256794.7 | 4086349 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.13E-05 | 1.57E-06 | 2.27E-05 | 1.72E-05 | 1.72E-05 | 9.44E-06 | 8.50E-07 | 1.23E-05 | 7.64E-06 | 7.64E-05 | 3.78E-06 |
| 2926 | 256772.1 | 4086341 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.13E-05 | 1.57E-06 | 2.27E-05 | 1.72E-05 | 1.72E-06 | 9.44E-05 | 8.50E-07 | 1.23E-05 | 7.64E-06 | 7.64E-06 | 3.78E-05 |
| 2927 | 256749.6 | 4086333 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.13E-05 | 1.57E-06 | 2.27E-05 | 1.72E-05 | 1.72E-06 | 9.44E-05 | 8.51E-07 | 1.23E-05 | 7.64E-06 | 7.64E-06 | 3.78E-05 |
| 2928 | 256727 | 4086324 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.14E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.45E-05 | 8.51E-07 | 1.23E-05 | 7.65E-06 | 7.65E-06 | 3.79E-05 |
| 2929 | 256704.4 | 4086316 | 1.03E-05 | 1.50E-04 | 1.10E-04 | 1.10E-04 | 6.15E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.47E-05 | 8.53E-07 | 1.23E-05 | 7.66E-05 | 7.66E-06 | 3.79E-05 |
| 2930 | 256681.9 | 4086308 | 1.04E-05 | 1.50E-04 | 1.11E-04 | 1.11E-04 | 6.16E-05 | 1.57E-06 | 2.28E-05 | 1.73E-05 | 1.73E-05 | 9.49E-05 | 8.54E-07 | 1.24E-05 | 7.68E-06 | 7.68E-05 | 3.80E-05 |
| 2931 | 256659.3 | 4086300 | 1.04E-05 | 1.50E-04 | 1.11E-04 | 1.11E-04 | 6.17E-05 | 1.58E-06 | 2.29E-05 | 1.73E-05 | 1.73E-06 | 9.51E-06 | 8.56E-07 | 1.24E-05 | 7.69E-05 | 7.69E-05 | 3.81E-05 |
| 2932 | 256636.7 | 4086291 | 1.04E-05 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 6.19E-05 | 1.58E-06 | 2.29E-05 | 1.73E-05 | 1.73E-06 | 9.53E-05 | 8.58E-07 | 1.24E-05 | 7.71E-06 | 7.71E-05 | 3.82E-05 |
| 2933 | 256614.2 | 4086283 | 1.04E-05 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 6.21E-05 | 1.59E-06 | 2.30E-05 | 1.74E-05 | 1.74E-05 | 9.56E-05 | 8.61E-07 | 1.25E-05 | 7.74E-06 | 7.74E-06 | 3.83E-05 |
| 2934 | 256591.6 | 4086275 | 1.05E-05 | 1.52E-04 | 1.12E-04 | 1.12E-04 | 6.23E-05 | 1.59E-06 | 2.31E-05 | 1.75E-05 | 1.75E-05 | 9.60E-05 | 8.64E-07 | 1.25E-05 | 7.77E-06 | 7.77E-05 | 3.84E-06 |
| 2935 | 256569 | 4086267 | 1.05E-05 | 1.52E-04 | 1.12E-04 | 1.12E-04 | 6.25E-05 | 1.59E-06 | 2.32E-05 | 1.75E-05 | 1.75E-05 | 9.62E-05 | 8.66E-07 | 1.25E-05 | 7.78E-06 | 7.78E-05 | 3.85E-05 |
| 2936 | 256536.4 | 4086237 | 1.07E-05 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 6.35E-05 | 1.62E-06 | 2.36E-05 | 1.78E-05 | 1.78E-05 | 9.78E-05 | 8.81E-07 | 1.27E-05 | 7.92E-06 | 7.92E-05 | 3.92E-06 |
| 2937 | 256526.4 | 4086215 | 1.09E-05 | 1.57E-04 | 1.16E-04 | 1.16E-04 | 6.45E-05 | 1.65E-06 | 2.39E-05 | 1.81E-05 | 1.81E-05 | 9.93E-05 | 8.95E-07 | 1.29E-05 | 8.04E-06 | 8.04E-05 | 3.98E-05 |
| 2938 | 256516.3 | 4086193 | 1.10E-05 | 1.59E-04 | 1.17E-04 | 1.17E-04 | 6.55E-05 | 1.67E-06 | 2.43E-05 | 1.83E-05 | 1.83E-05 | 1.01E-05 | 9.08E-07 | 1.31E-05 | 8.16E-06 | 8.16E-05 | 4.04E-05 |
| 2939 | 256506.3 | 4086171 | 1.12E-05 | 1.61E-04 | 1.19E-04 | 1.19E-04 | 6.64E-05 | 1.69E-06 | 2.46E-05 | 1.86E-05 | 1.86E-06 | 1.02E-05 | 9.20E-07 | 1.33E-05 | 8.27E-05 | 8.27E-05 | 4.09E-05 |
| 2940 | 256496.2 | 4086149 | 1.13E-05 | 1.64E-04 | 1.21E-04 | 1.21E-04 | 6.72E-05 | 1.72E-06 | 2.49E-05 | 1.88E-05 | 1.88E-05 | 1.03E-05 | 9.32E-07 | 1.35E-05 | 8.37E-06 | 8.37E-05 | 4.14E-05 |
| 2941 | 256486.2 | 4086128 | 1.14E-05 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.79E-06 | 1.74E-06 | 2.52E-05 | 1.90E-05 | 1.90E-06 | 1.05E-05 | 9.42E-07 | 1.36E-05 | 8.47E-06 | 8.47E-06 | 4.19E-05 |
| 2942 | 256476.1 | 4086106 | 1.15E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.86E-06 | 1.75E-06 | 2.54E-05 | 1.92E-05 | 1.92E-05 | 1.06E-05 | 9.51E-07 | 1.38E-05 | 8.54E-06 | 8.54E-06 | 4.23E-05 |
| 2943 | 256466.1 | 4086084 | 1.16E-05 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.91E-05 | 1.76E-06 | 2.56E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.58E-07 | 1.39E-05 | 8.61E-06 | 8.61E-06 | 4.26E-06 |
| 2944 | 256456.1 | 4086062 | 1.17E-05 | 1.69E-04 | 1.24E-04 | 1.24E-04 | 6.94E-05 | 1.77E-06 | 2.57E-05 | 1.94E-05 | 1.94E-05 | 1.07E-05 | 9.62E-07 | 1.39E-05 | 8.65E-06 | 8.65E-06 | 4.28E-06 |
| 2945 | 256446 | 4086040 | 1.17E-05 | 1.69E-04 | 1.25E-04 | 1.25E-04 | 6.95E-05 | 1.78E-06 | 2.58E-05 | 1.95E-05 | 1.95E-05 | 1.07E-05 | 9.64E-07 | 1.39E-05 | 8.66E-06 | 8.66E-05 | 4.29E-06 |
| 2946 | 256436 | 4086018 | 1.17E-05 | 1.69E-04 | 1.25E-04 | 1.25E-04 | 6.94E-05 | 1.77E-06 | 2.57E-05 | 1.94E-05 | 1.94E-05 | 1.07E-05 | 9.63E-07 | 1.39E-05 | 8.65E-06 | 8.65E-06 | 4.28E-06 |
| 2947 | 256425.9 | 4085997 | 1.16E-05 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.91E-05 | 1.77E-06 | 2.56E-05 | 1.94E-05 | 1.94E-05 | 1.06E-05 | 9.59E-07 | 1.39E-05 | 8.61E-06 | 8.61E-06 | 4.26E-06 |
| 2948 | 256415.9 | 4085975 | 1.15E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.86E-05 | 1.75E-06 | 2.54E-05 | 1.92E-05 | 1.92E-05 | 1.06E-05 | 9.51E-07 | 1.38E-05 | 8.55E-06 | 8.55E-06 | 4.23E-06 |
| 2949 | 256405.8 | 4085953 | 1.14E-05 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.78E-05 | 1.73E-06 | 2.51E-05 | 1.90E-05 | 1.90E-05 | 1.04E-05 | 9.41E-07 | 1.36E-05 | 8.45E-06 | 8.45E-06 | 4.18E-06 |
| 2950 | 256395.8 | 4085931 | 1.12E-05 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.88E-05 | 1.71E-06 | 2.48E-05 | 1.87E-05 | 1.87E-05 | 1.03E-05 | 9.26E-07 | 1.34E-05 | 8.32E-06 | 8.32E-06 | 4.12E-06 |
| 2951 | 256385.7 | 4085909 | 1.10E-05 | 1.59E-04 | 1.18E-04 | 1.18E-04 | 6.55E-05 | 1.67E-06 | 2.43E-05 | 1.83E-05 | 1.83E-05 | 1.01E-05 | 9.09E-07 | 1.31E-06 | 8.16E-06 | 8.16E-06 | 4.04E-06 |
| 2952 | 256375.7 | 4085888 | 1.08E-05 | 1.56E-04 | 1.15E-04 | 1.15E-04 | 6.40E-05 | 1.64E-06 | 2.37E-05 | 1.79E-05 | 1.79E-05 | 9.86E-06 | 8.88E-07 | 1.28E-05 | 7.98E-06 | 7.98E-06 | 3.95E-06 |
| 2953 | 256365.6 | 4085866 | 1.05E-05 | 1.52E-04 | 1.12E-04 | 1.12E-04 | 6.24E-05 | 1.59E-06 | 2.31E-05 | 1.75E-05 | 1.75E-05 | 9.60E-06 | 8.65E-07 | 1.25E-05 | 7.77E-06 | 7.77E-06 | 3.85E-06 |
| 2954 | 256355.6 | 4085844 | 1.01E-05 | 1.47E-04 | 1.08E-04 | 1.08E-04 | 6.03E-05 | 1.54E-06 | 2.24E-05 | 1.69E-05 | 1.69E-05 | 9.29E-06 | 8.37E-07 | 1.21E-06 | 7.52E-06 | 7.52E-06 | 3.72E-06 |
| 2955 | 256345.5 | 4085822 | 9.78E-06 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.81E-05 | 1.48E-06 | 2.15E-05 | 1.63E-05 | 1.63E-05 | 8.95E-06 | 8.06E-07 | 1.17E-06 | 7.24E-06 | 7.24E-06 | 3.58E-06 |
| 2956 | 256335.5 | 4085800 | 9.37E-06 | 1.36E-04 | 9.99E-05 | 9.99E-05 | 5.57E-05 | 1.42E-06 | 2.07E-05 | 1.56E-05 | 1.56E-05 | 8.58E-06 | 7.73E-07 | 1.12E-05 | 6.94E-06 | 6.94E-06 | 3.44E-06 |
| 2957 | 256325.4 | 4085778 | 8.95E-06 | 1.29E-04 | 9.54E-05 | 9.54E-05 | 5.32E-05 | 1.36E-06 | 1.97E-05 | 1.49E-05 | 1.49E-05 | 8.19E-06 | 7.38E-07 | 1.07E-05 | 6.63E-06 | 6.63E-05 | 3.28E-06 |
| 2958 | 256315.4 | 4085757 | 8.51E-06 | 1.23E-04 | 9.08E-05 | 9.08E-05 | 5.06E-05 | 1.29E-06 | 1.88E-05 | 1.42E-05 | 1.42E-05 | 7.79E-06 | 7.02E-07 | 1.02E-05 | 6.31E-06 | 6.31E-06 | 3.12E-05 |
| 2959 | 256305.3 | 4085735 | 8.07E-06 | 1.17E-04 | 8.60E-05 | 8.60E-05 | 4.80E-05 | 1.22E-06 | 1.78E-05 | 1.34E-05 | 1.34E-05 | 7.39E-06 | 6.65E-07 | 9.62E-06 | 5.98E-06 | 5.98E-06 | 2.96E-06 |
| 2960 | 256295.3 | 4086713 | 7.64E-06 | 1.10E-04 | 8.14E-05 | 8.14E-05 | 4.54E-05 | 1.16E-06 | 1.68E-05 | 1.27E-05 | 1.27E-05 | 6.99E-05 | 6.30E-07 | 9.11E-06 | 5.66E-06 | 5.66E-06 | 2.80E-06 |
| 2961 | 256285.2 | 4085691 | 7.22E-06 | 1.04E-04 | 7.70E-05 | 7.70E-05 | 4.29E-05 | 1.10E-06 | 1.59E-05 | 1.20E-05 | 1.20E-05 | 6.61E-06 | 5.95E-07 | 8.61E-06 | 5.35E-06 | 5.35E-06 | 2.65E-06 |
| 2962 | 256275.2 | 4085669 | 6.81E-06 | 9.85E-05 | 7.26E-05 | 7.26E-05 | 4.05E-05 | 1.03E-06 | 1.50E-05 | 1.13E-05 | 1.13E-05 | 6.23E-06 | 5.62E-07 | 8.12E-06 | 5.05E-06 | 5.05E-06 | 2.50E-06 |
| 2963 | 256265.1 | 4085648 | 6.44E-06 | 9.31E-05 | 6.87E-05 | 6.87E-05 | 3.83E-05 | 9.77E-07 | 1.42E-05 | 1.07E-05 | 1.07E-05 | 5.89E-05 | 5.31E-07 | 7.68E-05 | 4.77E-05 | 4.77E-06 | 2.36E-05 |
| 2964 | 256255.1 | 4085626 | 6.10E-06 | 8.83E-05 | 6.51E-05 | 6.51E-05 | 3.63E-05 | 9.26E-07 | 1.34E-05 | 1.02E-05 | 1.02E-05 | 5.58E-06 | 5.03E-07 | 7.28E-06 | 4.52E-06 | 4.52E-06 | 2.24E-06 |
| 2965 | 256245.1 | 4085604 | 5.80E-06 | 8.39E-05 | 6.19E-05 | 6.19E-05 | 3.45E-05 | 8.81E-07 | 1.28E-05 | 9.66E-06 | 9.66E-06 | 5.31E-06 | 4.78E-07 | 6.92E-06 | 4.30E-06 | 4.30E-06 | 2.13E-06 |
| 2966 | 256235 | 4085582 | 5.54E-06 | 8.02E-05 | 5.91E-05 | 5.91E-05 | 3.29E-05 | 8.41E-07 | 1.22E-05 | 9.23E-05 | 9.23E-06 | 5.07E-06 | 4.57E-07 | 6.61E-06 | 4.10E-06 | 4.10E-06 | 2.03E-06 |
| 2967 | 256225 | 4085560 | 5.32E-06 | 7.70E-05 | 5.68E-05 | 5.68E-05 | 3.16E-05 | 8.08E-07 | 1.17E-05 | 8.86E-05 | 8.86E-06 | 4.87E-06 | 4.39E-07 | 6.35E-06 | 3.94E-06 | 3.94E-06 | 1.95E-06 |
| 2968 | 256214.9 | 4085538 | 5.14E-06 | 7.43E-05 | 5.48E-05 | 5.48E-05 | 3.05E-05 | 7.80E-07 | 1.13E-05 | 8.55E-06 | 8.55E-06 | 4.70E-05 | 4.24E-07 | 6.13E-06 | 3.81E-06 | 3.81E-06 | 1.88E-06 |
| 2969 | 256204.9 | 4085517 | 4.99E-06 | 7.21E-05 | 5.31E-05 | 5.31E-05 | 2.96E-05 | 7.57E-07 | 1.10E-05 | 8.30E-06 | 8.30E-05 | 4.56E-05 | 4.11E-07 | 5.94E-05 | 3.69E-06 | 3.69E-06 | 1.83E-06 |
| 2970 | 256194.8 | 4085495 | 4.86E-06 | 7.02E-05 | 5.18E-05 | 5.18E-05 | 2.89E-05 | 7.37E-07 | 1.07E-05 | 8.08E-06 | 8.08E-06 | 4.44E-05 | 4.00E-07 | 5.79E-06 | 3.60E-06 | 3.60E-05 | 1.78E-06 |
| 2971 | 256184.8 | 4085473 | 4.75E-06 | 6.87E-05 | 5.06E-05 | 5.06E-05 | 2.82E-05 | 7.21E-07 | 1.05E-05 | 7.90E-06 | 7.90E-06 | 4.34E-06 | 3.91E-07 | 5.68E-06 | 3.52E-06 | 3.52E-06 | 1.74E-05 |
| 2972 | 256174.7 | 4085451 | 4.65E-06 | 6.72E-05 | 4.96E-05 | 4.96E-05 | 2.76E-05 | 7.06E-07 | 1.02E-05 | 7.74E-06 | 7.74E-06 | 4.25E-06 | 3.83E-07 | 5.54E-06 | 3.44E-06 | 3.44E-06 | 1.70E-06 |
| 2973 | 256164.7 | 4085429 | 4.56E-06 | 6.60E-05 | 4.86E-05 | 4.86E-05 | 2.71E-05 | 6.92E-07 | 1.01E-05 | 7.59E-06 | 7.59E-06 | 4.17E-06 | 3.76E-07 | 5.44E-06 | 3.38E-06 | 3.38E-06 | 1.67E-05 |
| 2974 | 256154.6 | 4085408 | 4.48E-05 | 6.47E-05 | 4.77E-05 | 4.77E-05 | 2.66E-05 | 6.79E-07 | 9.86E-05 | 7.45E-06 | 7.45E-06 | 4.10E-06 | 3.69E-07 | 5.34E-06 | 3.31E-06 | 3.31E-06 | 1.64E-05 |
| 2975 | 256144.6 | 4085386 | 4.39E-06 | 6.35E-05 | 4.68E-05 | 4.68E-05 | 2.61E-05 | 6.66E-07 | 9.67E-05 | 7.31E-05 | 7.31E-06 | 4.02E-05 | 3.62E-07 | 5.23E-05 | 3.25E-06 | 3.25E-06 | 1.61E-06 |
| 2976 | 256134.5 | 4085364 | 4.30E-06 | 6.22E-05 | 4.59E-05 | 4.59E-05 | 2.56E-05 | 6.53E-07 | 9.48E-06 | 7.16E-05 | 7.16E-05 | 3.94E-06 | 3.55E-07 | 5.13E-06 | 3.19E-06 | 3.19E-06 | 1.58E-06 |
| 2977 | 256124.5 | 4085342 | 4.22E-06 | 6.10E-05 | 4.50E-05 | 4.50E-05 | 2.51E-05 | 6.40E-07 | 9.29E-06 | 7.02E-06 | 7.02E-05 | 3.86E-05 | 3.48E-07 | 5.03E-05 | 3.12E-06 | 3.12E-05 | 1.55E-06 |
| 2978 | 256114.4 | 4085320 | 4.13E-06 | 5.97E-05 | 4.40E-05 | 4.40E-05 | 2.46E-05 | 6.27E-07 | 9.10E-06 | 6.88E-06 | 6.88E-06 | 3.78E-06 | 3.41E-07 | 4.93E-05 | 3.06E-06 | 3.06E-06 | 1.51E-05 |
| 2979 | 256104.4 | 4085298 | 4.05E-06 | 5.86E-05 | 4.32E-05 | 4.32E-05 | 2.41E-05 | 6.15E-07 | 8.93E-06 | 6.74E-06 | 6.74E-06 | 3.71E-06 | 3.34E-07 | 4.83E-06 | 3.00E-06 | 3.00E-06 | 1.48E-06 |
| 2980 | 256094.3 | 4085277 | 3.98E-06 | 5.75E-05 | 4.24E-05 | 4.24E-05 | 2.36E-05 | 6.04E-07 | 8.76E-06 | 6.62E-06 | 6.62E-06 | 3.64E-06 | 3.28E-07 | 4.74E-06 | 2.95E-06 | 2.95E-06 | 1.46E-06 |
| 2981 | 256084.3 | 4085255 | 3.91E-06 | 5.65E-05 | 4.16E-05 | 4.16E-05 | 2.32E-05 | 5.93E-07 | 8.61E-06 | 6.50E-06 | 6.50E-06 | 3.57E-06 | 3.22E-07 | 4.66E-06 | 2.89E-06 | 2.89E-06 | 1.43E-05 |
| 2982 | 256074.2 | 4085233 | 3.85E-05 | 5.56E-05 | 4.10E-05 | 4.10E-05 | 2.29E-05 | 5.84E-07 | 8.47E-05 | 6.40E-06 | 6.40E-06 | 3.52E-06 | 3.17E-07 | 4.59E-06 | 2.85E-06 | 2.85E-06 | 1.41E-06 |
| 2983 | 257629.5 | 4086654 | 7.14E-06 | 1.03E-04 | 7.61E-05 | 7.61E-05 | 4.24E-05 | 1.08E-05 | 1.57E-05 | 1.19E-05 | 1.19E

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2778 | 257486.6 | 4086405 | 1.01E-05 | 1.46E-04 | 1.08E-04 | 1.08E-04 | 6.00E-06 | 1.53E-06 | 2.23E-06 | 1.68E-05 | 1.68E-05 | 9.24E-06 | 8.33E-07 | 1.20E-05 | 7.48E-06 | 7.48E-06 | 3.70E-06 |
| 2779 | 257464.2 | 4086397 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.11E-06 | 1.56E-06 | 2.26E-06 | 1.71E-05 | 1.71E-05 | 9.40E-06 | 8.47E-07 | 1.22E-06 | 7.61E-06 | 7.61E-06 | 3.77E-06 |
| 2780 | 257441.9 | 4086389 | 1.04E-05 | 1.51E-04 | 1.21E-04 | 1.11E-04 | 6.20E-06 | 1.58E-06 | 2.30E-06 | 1.74E-05 | 1.74E-05 | 9.55E-06 | 8.60E-07 | 1.24E-05 | 7.73E-06 | 7.73E-06 | 3.83E-06 |
| 2781 | 257419.5 | 4086382 | 1.06E-05 | 1.53E-04 | 1.13E-04 | 1.13E-04 | 6.29E-06 | 1.61E-06 | 2.33E-06 | 1.76E-05 | 1.76E-05 | 9.69E-06 | 8.73E-07 | 1.26E-05 | 7.84E-06 | 7.84E-06 | 3.88E-06 |
| 2782 | 257397.2 | 4086373 | 1.07E-05 | 1.55E-04 | 1.24E-04 | 1.14E-04 | 6.38E-06 | 1.63E-06 | 2.37E-06 | 1.79E-05 | 1.79E-05 | 9.82E-06 | 8.85E-07 | 1.28E-05 | 7.95E-06 | 7.95E-06 | 3.94E-06 |
| 2783 | 257374.9 | 4086365 | 1.09E-05 | 1.57E-04 | 1.16E-04 | 1.16E-04 | 6.46E-06 | 1.65E-06 | 2.39E-06 | 1.81E-05 | 1.81E-05 | 9.95E-06 | 8.96E-07 | 1.30E-05 | 8.05E-06 | 8.05E-06 | 3.98E-06 |
| 2784 | 257352.5 | 4086356 | 1.10E-05 | 1.59E-04 | 1.17E-04 | 1.17E-04 | 6.53E-06 | 1.67E-06 | 2.42E-06 | 1.83E-05 | 1.83E-05 | 1.01E-05 | 9.06E-07 | 1.31E-05 | 8.14E-06 | 8.14E-06 | 4.03E-06 |
| 2785 | 257330.2 | 4086348 | 1.11E-06 | 1.61E-04 | 1.18E-04 | 1.18E-04 | 6.60E-06 | 1.69E-06 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.02E-05 | 9.16E-07 | 1.32E-06 | 8.23E-06 | 8.23E-06 | 4.07E-06 |
| 2786 | 257307.8 | 4086340 | 1.12E-05 | 1.62E-04 | 1.20E-04 | 1.20E-04 | 6.67E-05 | 1.70E-06 | 2.47E-05 | 1.87E-05 | 1.87E-05 | 1.03E-05 | 9.25E-07 | 1.34E-05 | 8.31E-06 | 8.31E-06 | 4.11E-06 |
| 2787 | 257285.5 | 4086332 | 1.13E-06 | 1.64E-04 | 1.21E-04 | 1.21E-04 | 6.73E-06 | 1.72E-06 | 2.50E-05 | 1.89E-05 | 1.89E-05 | 1.04E-05 | 9.34E-07 | 1.35E-05 | 8.39E-06 | 8.39E-06 | 4.25E-06 |
| 2788 | 257263.1 | 4086324 | 1.14E-05 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.79E-05 | 1.73E-06 | 2.52E-05 | 1.90E-05 | 1.90E-06 | 1.05E-05 | 9.42E-07 | 1.36E-06 | 8.46E-06 | 8.46E-06 | 4.19E-06 |
| 2789 | 257240.8 | 4086316 | 1.15E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.86E-05 | 1.75E-06 | 2.54E-05 | 1.92E-06 | 2.92E-06 | 1.06E-05 | 9.51E-07 | 1.38E-05 | 8.54E-06 | 8.54E-06 | 4.23E-06 |
| 2790 | 257218.4 | 4086307 | 1.16E-05 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.92E-05 | 1.77E-05 | 2.56E-06 | 1.94E-05 | 1.94E-05 | 1.07E-05 | 9.59E-07 | 1.39E-06 | 8.62E-06 | 8.62E-06 | 4.27E-06 |
| 2791 | 257196.1 | 4086299 | 1.17E-05 | 1.70E-04 | 1.25E-04 | 1.25E-04 | 6.98E-05 | 1.78E-06 | 2.59E-06 | 1.95E-05 | 1.95E-05 | 1.07E-05 | 9.68E-07 | 1.40E-05 | 8.70E-06 | 8.70E-06 | 4.30E-06 |
| 2792 | 257173.7 | 4086291 | 1.19E-05 | 1.71E-04 | 1.26E-04 | 1.26E-04 | 7.04E-05 | 1.80E-06 | 2.61E-05 | 2.97E-05 | 1.97E-05 | 1.08E-05 | 9.77E-07 | 1.41E-05 | 8.78E-06 | 8.78E-06 | 4.34E-06 |
| 2793 | 257151.4 | 4086283 | 1.20E-05 | 1.73E-04 | 1.28E-04 | 1.28E-04 | 7.12E-05 | 1.82E-06 | 2.64E-06 | 2.99E-05 | 1.99E-05 | 1.10E-05 | 9.88E-07 | 1.43E-06 | 8.87E-06 | 8.87E-06 | 4.39E-06 |
| 2794 | 257129 | 4086275 | 1.21E-05 | 1.75E-04 | 1.29E-04 | 1.29E-04 | 7.19E-05 | 1.84E-06 | 2.67E-06 | 2.01E-05 | 2.01E-05 | 1.11E-06 | 9.97E-07 | 1.44E-05 | 8.96E-06 | 8.96E-06 | 4.44E-06 |
| 2795 | 257106.7 | 4086267 | 1.22E-05 | 1.76E-04 | 1.30E-04 | 1.30E-04 | 7.25E-05 | 1.85E-06 | 2.69E-06 | 2.03E-05 | 2.03E-05 | 1.12E-05 | 1.01E-06 | 1.45E-05 | 9.03E-06 | 9.03E-06 | 4.47E-06 |
| 2796 | 257084.3 | 4086258 | 1.23E-05 | 1.78E-04 | 1.31E-04 | 1.31E-04 | 7.30E-05 | 1.86E-06 | 2.71E-05 | 2.04E-05 | 2.04E-05 | 1.12E-05 | 1.01E-06 | 1.46E-05 | 9.09E-06 | 9.09E-06 | 4.50E-06 |
| 2797 | 257062 | 4086250 | 1.23E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-06 | 2.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 2798 | 257039.6 | 4086242 | 1.24E-06 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.37E-05 | 1.88E-06 | 2.73E-06 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.48E-05 | 9.18E-06 | 9.18E-06 | 4.54E-06 |
| 2799 | 257017.3 | 4086234 | 1.24E-05 | 1.80E-04 | 1.32E-04 | 1.32E-04 | 7.38E-05 | 1.89E-06 | 2.74E-05 | 2.07E-05 | 2.07E-05 | 1.14E-05 | 1.02E-06 | 1.48E-06 | 9.20E-06 | 9.20E-06 | 4.55E-06 |
| 2800 | 256994.9 | 4086228 | 1.24E-05 | 1.80E-04 | 1.33E-04 | 1.33E-04 | 7.39E-05 | 1.89E-06 | 2.74E-05 | 2.07E-05 | 2.07E-05 | 1.14E-05 | 1.03E-06 | 1.48E-06 | 9.21E-06 | 9.21E-06 | 4.56E-06 |
| 2801 | 256972.6 | 4086218 | 1.24E-05 | 1.80E-04 | 1.32E-04 | 1.32E-04 | 7.38E-05 | 1.88E-06 | 2.74E-05 | 2.07E-05 | 2.07E-05 | 1.14E-05 | 1.02E-06 | 1.48E-05 | 9.19E-06 | 9.19E-06 | 4.55E-06 |
| 2802 | 256950.2 | 4086209 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.36E-06 | 1.88E-06 | 2.73E-05 | 2.06E-06 | 2.06E-06 | 1.13E-05 | 1.02E-06 | 1.48E-05 | 9.17E-06 | 9.17E-06 | 4.54E-06 |
| 2803 | 256927.9 | 4086201 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.35E-05 | 1.88E-06 | 2.73E-05 | 2.06E-06 | 2.06E-06 | 1.13E-06 | 1.02E-06 | 1.47E-05 | 9.16E-06 | 9.16E-06 | 4.53E-06 |
| 2804 | 256905.5 | 4086193 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.88E-06 | 2.72E-05 | 2.06E-06 | 2.06E-06 | 1.13E-06 | 1.02E-06 | 1.47E-05 | 9.25E-06 | 9.25E-06 | 4.53E-06 |
| 2805 | 256883.2 | 4086185 | 1.23E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 2.87E-06 | 2.72E-05 | 2.05E-06 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 2806 | 256860.8 | 4086177 | 1.23E-05 | 1.78E-04 | 1.32E-04 | 1.32E-04 | 7.33E-05 | 2.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 2807 | 256838.5 | 4086169 | 1.23E-05 | 1.78E-04 | 1.32E-04 | 1.32E-04 | 7.33E-05 | 1.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 2808 | 256616.1 | 4086160 | 1.23E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.87E-06 | 2.72E-06 | 2.06E-06 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 2809 | 256793.8 | 4086152 | 1.23E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.87E-06 | 2.72E-06 | 2.06E-06 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.53E-06 |
| 2810 | 256771.4 | 4086144 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.88E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-06 | 9.15E-06 | 9.15E-06 | 4.53E-06 |
| 2811 | 256749.1 | 4086136 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.35E-05 | 1.88E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.16E-06 | 9.16E-06 | 4.53E-06 |
| 2812 | 256726.7 | 4086128 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.35E-05 | 1.88E-06 | 2.73E-06 | 2.06E-05 | 2.06E-06 | 1.13E-05 | 1.02E-06 | 2.47E-05 | 9.16E-06 | 9.16E-06 | 4.53E-06 |
| 2813 | 256704.4 | 4086120 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.35E-05 | 1.88E-06 | 2.73E-05 | 2.06E-05 | 2.06E-06 | 1.13E-05 | 1.02E-06 | 2.48E-05 | 9.16E-06 | 9.16E-06 | 4.54E-06 |
| 2814 | 256672.1 | 4086090 | 1.26E-06 | 1.82E-04 | 1.34E-04 | 1.34E-04 | 7.48E-05 | 1.91E-06 | 2.77E-06 | 2.09E-05 | 2.09E-05 | 1.25E-05 | 1.04E-06 | 1.50E-05 | 9.31E-06 | 9.31E-06 | 4.61E-06 |
| 2815 | 256662.1 | 4086068 | 1.28E-05 | 1.85E-04 | 1.36E-04 | 1.36E-04 | 7.60E-05 | 1.94E-06 | 2.82E-05 | 2.13E-05 | 2.13E-05 | 1.17E-05 | 1.05E-06 | 1.52E-05 | 9.47E-06 | 9.47E-06 | 4.69E-06 |
| 2816 | 256652.2 | 4086047 | 1.30E-06 | 1.88E-04 | 1.39E-04 | 1.39E-04 | 7.72E-05 | 1.97E-06 | 2.86E-05 | 2.16E-05 | 2.16E-05 | 1.19E-06 | 1.07E-06 | 1.55E-05 | 9.62E-06 | 9.62E-06 | 4.76E-06 |
| 2817 | 256642.2 | 4086025 | 1.32E-06 | 1.90E-04 | 1.40E-04 | 1.40E-04 | 7.82E-05 | 2.00E-06 | 2.90E-06 | 2.19E-05 | 2.19E-06 | 1.20E-06 | 1.09E-06 | 1.57E-05 | 9.75E-06 | 9.75E-06 | 4.83E-06 |
| 2818 | 256632.3 | 4086003 | 1.33E-05 | 1.92E-04 | 1.42E-04 | 1.42E-04 | 7.91E-06 | 2.02E-06 | 2.93E-06 | 2.22E-05 | 2.22E-05 | 1.22E-05 | 1.10E-06 | 1.59E-05 | 9.86E-06 | 9.86E-06 | 4.88E-06 |
| 2819 | 256622.3 | 4085982 | 1.34E-05 | 1.94E-04 | 1.43E-04 | 1.43E-04 | 7.98E-05 | 2.04E-06 | 2.96E-06 | 2.23E-05 | 2.23E-05 | 1.23E-05 | 1.11E-06 | 1.60E-05 | 9.94E-06 | 9.94E-06 | 4.92E-06 |
| 2820 | 256612.4 | 4085960 | 1.35E-05 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.03E-05 | 2.05E-06 | 2.98E-05 | 2.25E-05 | 2.25E-06 | 1.24E-06 | 1.11E-06 | 1.61E-05 | 1.00E-05 | 1.00E-05 | 4.95E-06 |
| 2821 | 256602.4 | 4085939 | 1.35E-05 | 1.96E-04 | 1.44E-04 | 1.44E-04 | 8.05E-05 | 2.06E-06 | 2.99E-05 | 2.26E-05 | 2.26E-05 | 1.24E-05 | 1.12E-06 | 1.62E-05 | 1.00E-05 | 1.00E-05 | 4.97E-06 |
| 2822 | 256592.5 | 4085917 | 1.35E-05 | 1.96E-04 | 1.44E-04 | 1.44E-04 | 8.05E-05 | 2.05E-06 | 2.98E-05 | 2.25E-05 | 2.25E-06 | 1.24E-05 | 1.12E-06 | 1.61E-05 | 1.00E-05 | 1.00E-06 | 4.96E-06 |
| 2823 | 256582.5 | 4085895 | 1.35E-06 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.01E-05 | 2.05E-06 | 2.97E-06 | 2.24E-05 | 2.24E-05 | 1.23E-05 | 1.11E-06 | 1.81E-05 | 9.98E-06 | 9.98E-06 | 4.94E-06 |
| 2824 | 256572.6 | 4085874 | 1.34E-05 | 1.93E-04 | 1.42E-04 | 1.42E-04 | 7.94E-05 | 2.03E-06 | 2.95E-06 | 2.22E-05 | 2.22E-06 | 1.22E-06 | 1.10E-06 | 1.59E-06 | 9.90E-06 | 9.90E-06 | 4.90E-06 |
| 2825 | 256562.6 | 4085852 | 1.32E-05 | 1.91E-04 | 1.41E-04 | 1.41E-04 | 7.84E-05 | 2.00E-06 | 2.91E-05 | 2.20E-05 | 2.20E-05 | 1.21E-06 | 1.09E-06 | 1.57E-06 | 9.77E-06 | 9.77E-06 | 4.84E-06 |
| 2826 | 256552.7 | 4085830 | 1.30E-05 | 1.88E-04 | 1.38E-04 | 1.38E-04 | 7.71E-06 | 1.97E-06 | 2.86E-06 | 2.16E-05 | 2.16E-06 | 1.19E-05 | 1.07E-06 | 1.55E-06 | 9.61E-06 | 9.61E-06 | 4.76E-06 |
| 2827 | 256542.7 | 4085809 | 1.27E-05 | 1.84E-04 | 1.35E-04 | 1.35E-04 | 7.54E-05 | 1.93E-06 | 2.80E-05 | 2.11E-05 | 2.11E-05 | 1.16E-05 | 1.05E-06 | 1.51E-05 | 9.40E-06 | 9.40E-06 | 4.65E-06 |
| 2828 | 256532.8 | 4085787 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.35E-05 | 1.88E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.15E-06 | 9.15E-06 | 4.53E-06 |
| 2829 | 256522.8 | 4085766 | 1.20E-05 | 1.73E-04 | 1.28E-04 | 1.28E-04 | 7.12E-05 | 1.82E-06 | 2.64E-05 | 1.99E-05 | 1.99E-05 | 1.10E-05 | 9.87E-07 | 1.43E-05 | 8.87E-06 | 8.87E-06 | 4.39E-06 |
| 2830 | 256512.9 | 4085744 | 1.15E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.86E-05 | 1.75E-06 | 2.54E-05 | 1.92E-05 | 1.92E-05 | 1.06E-05 | 9.51E-07 | 1.38E-05 | 8.55E-06 | 8.55E-06 | 4.23E-06 |
| 2831 | 256502.9 | 4085722 | 1.11E-05 | 1.60E-04 | 1.18E-04 | 1.18E-04 | 6.58E-05 | 1.68E-06 | 2.44E-05 | 1.84E-06 | 1.84E-05 | 1.01E-05 | 9.12E-07 | 1.32E-05 | 8.20E-06 | 8.20E-06 | 4.06E-06 |
| 2832 | 256493 | 4085701 | 1.06E-06 | 1.53E-04 | 1.13E-04 | 1.13E-04 | 6.29E-06 | 1.61E-06 | 2.33E-05 | 1.76E-05 | 1.76E-06 | 9.68E-06 | 8.72E-07 | 1.26E-05 | 7.84E-06 | 7.84E-06 | 3.88E-06 |
| 2833 | 256483 | 4085679 | 1.00E-06 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.97E-05 | 1.53E-06 | 2.21E-05 | 1.67E-05 | 1.67E-06 | 9.20E-06 | 8.28E-07 | 1.20E-06 | 7.44E-06 | 7.44E-06 | 3.68E-06 |
| 2834 | 256473 | 4085658 | 9.50E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.65E-05 | 1.44E-06 | 2.09E-05 | 1.58E-05 | 2.58E-05 | 8.70E-06 | 7.83E-07 | 1.13E-05 | 7.04E-06 | 7.04E-06 | 3.48E-06 |
| 2835 | 256463.1 | 4085636 | 8.96E-06 | 1.30E-04 | 9.55E-05 | 9.55E-05 | 5.33E-05 | 1.36E-06 | 1.97E-05 | 1.49E-05 | 1.49E-05 | 8.20E-06 | 7.39E-07 | 1.07E-05 | 6.64E-06 | 6.64E-06 | 3.28E-06 |
| 2836 | 256453.1 | 4085614 | 8.43E-06 | 1.22E-04 | 8.99E-05 | 8.99E-05 | 5.01E-05 | 1.28E-06 | 1.86E-05 | 1.40E-05 | 1.40E-05 | 7.72E-06 | 6.95E-07 | 1.01E-05 | 6.24E-06 | 6.24E-06 | 3.09E-06 |
| 2837 | 256443.2 | 4085593 | 7.93E-06 | 1.15E-04 | 8.46E-05 | 8.46E-05 | 4.71E-06 | 1.20E-06 | 1.75E-06 | 1.32E-06 | 1.32E-05 | 7.26E-06 | 6.54E-07 | 9.46E-06 | 5.87E-06 | 5.87E-06 | 2.91E-06 |
| 2838 | 256433.2 | 4085571 | 7.47E-06 | 1.08E-04 | 7.96E-05 | 7.96E-05 | 4.44E-06 | 1.13E-06 | 1.65E-06 | 1.24E-06 | 1.24E-06 | 6.84E-06 | 6.16E-07 | 8.91E-06 | 5.53E-06 | 5.53E-06 | 2.74E-06 |
| 2839 | 256423.3 | 4085550 | 7.06E-06 | 1.02E-04 | 7.52E-06 | 7.52E-06 | 4.19E-05 | 1.07E-06 | 1.55E-05 | 1.17E-05 | 2.17E-06 | 6.46E-06 | 5.82E-07 | 8.41E-06 | 5.22E-06 | 5.22E-06 | 2.59E-06 |
| 2840 | 256413.3 | 4085528 | 6.69E-06 | 9.68E-06 | 7.13E-05 | 7.13E-05 | 3.98E-06 | 1.02E-06 | 1.47E-05 | 1.11E-05 | 2.11E-06 | 6.12E-06 | 5.52E-07 | 7.98E-06 | 4.96E-06 | 4.96E-06 | 2.45E-06 |
| 2842 | 256403.4 | 4085506 | 6.38E-06 | 9.23E-06 | 6.80E-05 | 6.80E-05 | 3.79E-06 | 9.68E-07 | 1.41E-05 | 1.06E-06 | 2.06E-05 | 5.84E-06 | 5.26E-07 | 7.60E-06 | 4.72E-06 | 4.72E-06 | 2.34E-06 |
| 2842 | 256393.4 | 4085485 | 6.12E-06 | 8.85E-05 | 6.52E-05 | 6.52E-05 | 3.64E-05 | 9.28E-07 | 1.35E-05 | 1.02E-05 | 1.02E-06 | 5.60E-06 | 5.04E-07 | 7.29E-06 | 4.53E-06 | 4.53E-06 | 2.24E-06 |
| 2843 | 256383.5 | 4085463 | 5.90E-06 | 8.53E-05 | 6.28E-05 | 6.28E-05 | 3.50E-05 | 8.95E-07 | 1.30E-06 | 9.81E-06 | 9.81E-06 | 5.39E-06 | 4.86E-07 | 7.03E-06 | 4.37E-06 | 4.37E-06 | 2.16E-06 |
| 2844 | 256373.5 | 4085441 | 5.71E-06 | 8.26E-05 | 6.09E-05 | 6.09E-06 | 3.39E-05 | 8.66E-07 | 1.26E-05 | 9.50E-06 | 9.50E-06 | 5.22E-06 | 4.71E-07 | 6.81E-06 | 4.23E-06 | 4.23E-06 | 2.09E-06 |
| 2845 | 256363.6 | 4085420 | 5.55E-06 | 8.03E-05 | 5.92E-05 | 5.92E-05 | 3.30E-05 | 8.42E-07 | 1.22E-05 | 9.24E-06 | 9.24E-06 | 5.08E-06 | 4.58E-07 | 6.62E-06 | 4.11E-06 | 4.12E-06 | 2.03E-06 |
| 2846 | 256353.6 | 4085398 | 5.41E-06 | 7.83E-05 | 5.77E-05 | 5.77E-06 | 3.22E-05 | 8.21E-07 | 1.19E-05 | 9.01E-06 | 9.01E-06 | 4.95E-06 | 4.46E-07 | 6.45E-06 | 4.01E-06 | 4.01E-06 | 1.98E-06 |
| 2847 | 256343.7 | 4085377 | 5.28E-06 | 7.64E-06 | 5.63E-06 | 5.63E-05 | 3.14E-05 | 8.02E-07 | 1.16E-05 | 8.80E-06 | 8.80E-06 | 4.84E-06 | 4.36E-07 | 6.30E-06 | 3.91E-05 | 3.91E-06 | 1.94E-06 |
| 2848 | 256333.7 | 4085355 | 5.17E-06 | 7.47E-05 | 5.51E-05 | 5.51E-05 | 3.07E-05 | 7.84E-07 | 1.14E-05 | 8.60E-06 | 8.60E-06 | 4.73E-06 | 4.26E-07 | 6.16E-06 | 3.83E-06 | 3.83E-06 | 1.89E-06 |
| 2849 | 256323.8 | 4085333 | 5.05E-06 | 7.31E-05 | 5.38E-05 | 5.38E-05 | 3.00E-05 | 7.67E-07 | 1.11E-06 | 8.42E-06 | 8.41E-06 | 4.62E-06 | 4.16E-07 | 6.02E-06 | 3.74E-06 | 3.74E-06 | 1.85E-06 |
| 2850 | 256313.8 | 4085312 | 4.94E-06 | 7.15E-05 | 5.27E-05 | 5.27E-05 | 2.94E-05 | 7.50E-07 | 2.09E-05 | 8.22E-06 | 8.22E-06 | 4.52E-06 | 4.07E-07 | 5.89E-06 | 3.66E-06 | 3.66E-06 | 1.81E-06 |
| 2851 | 256303.9 | 4085290 | 4.83E-06 | 6.99E-06 | 5.15E-05 | 5.15E-05 | 2.87E-05 | 7.34E-07 | 2.07E-06 | 8.05E-06 | 8.05E-06 | 4.42E-06 | 3.98E-07 | 5.76E-06 | 3.58E-06 | 3.58E-06 | 1.77E-06 |
| 2852 | 256293.9 | 4085269 | 4.73E-06 | 6.85E-05 | 5.05E-05 | 5.05E-05 | 2.81E-06 | 7.18E-07 | 1.04E-06 | 7.88E-06 | 7.88E-06 | 4.33E-06 | 3.90E-07 | 5.64E-06 | 3.51E-06 | 3.51E-06 | 1.74E-06 |
| 2853 | 256284 | 4085247 | 4.64E-06 | 6.71E-05 | 4.95E-06 | 4.95E-05 | 2.76E-05 | 7.04E-07 | 1.02E-05 | 7.73E-06 | 7.73E-06 | 4.25E-06 | 3.83E-07 | 5.53E-06 | 3.44E-06 | 3.44E-06 | 1.70E-06 |
| 2854 | 256274 | 4085225 | 4.56E-06 | 6.59E-05 | 4.86E-06 | 4.86E-05 | 2.72E-05 | 6.92E-07 | 1.00E-06 | 7.59E-06 | 7.59E-06 | 4.17E-06 | 3.76E-07 | 5.44E-06 | 3.38E-06 | 3.38E-06 | 1.67E-06 |
| 2855 | 257620.7 | 4086454 | 8.93E-06 | 1.29E-04 | 9.52E-06 | 9.52E-06 | 5.30E-06 | 1.35E-06 | 1.97E-06 | 1.49E-06 | 2.49E-05 | 8.17E-06 | 7.36E-07 | 1.06E-05 | 6.61E-06 | 6.61E-06 | 3.27E-06 |
| 2856 | 257645 | 4086453 | 8.81E-06 | 1.27E-04 | 9.40E-05 | 9.40E-06 | 5.24E-05 | 1.34E-06 | 1.94E-05 | 1.47E-05 | 1.47E-05 | 8.06E-06 | 7.26E-07 | 1.05E-05 | 6.53E-06 | 6.53E-06 | 3.23E-06 |
| 2857 | 257669.2 | 4086452 | 8.70E-06 | 1.26E-04 | 9.28E-05 | 9.28E-05 | 5.17E-05 | 1.32E-06 | 1.92E-05 | 1.45E-05 | 1.45E-05 | 7.96E-06 | 7.17E-07 | 1.04E-05 | 6.44E-06 | 6.44E-06 | 3.19E-06 |
| 2858 | 257693.5 | 4086451 | 8.58E-06 | 1.24E-04 | 9.25E-05 | 9.15E-06 | 5.10E-06 | 1.30E-06 | 1.89E-05 | 1.43E-05 | 1.43E-05 | 7.85E-06 | 7.08E-07 | 1.02E-05 | 6.36E-06 | 6.36E-06 | 3.25E-06 |
| 2859 | 257717.8 | 4086450 | 8.47E-06 | 1.22E-04 | 9.03E-05 | 9.03E-06 | 5.03E-05 | 1.29E-06 | 1.87E-05 | 1.41E-05 | 1.41E-05 | 7.75E-06 | 6.98E-07 | 1.01E-05 | 6.27E-06 | 6.27E-06 | 3.10E-06 |
| 2860 | 257742.1 | 4086449 | 8.35E-06 | 1.21E-04 | 8.90E-06 | 8.90E-05 | 4.96E-06 | 1.27E-06 | 1.84E-05 | 1.39E-05 | 1.39E-05 | 7.64E-06 | 6.88E-07 | 9.96E-06 | 6.18E-06 | 6.18E-06 | 3.06E-06 |
| 2861 | 257766.4 | 4086448 | 8.25E-06 | 1.19E-04 | 8.79E-05 | 8.79E-05 | 4.90E-06 | 1.25E-06 | 1.82E-06 | 1.37E-05 | 1.37E-05 | 7.55E-06 | 6.80E-07 | 9.84E-06 | 6.11E-06 | 6.11E-06 | 3.02E-06 |
| 2862 | 257790.7 | 4086447 | 8.15E-06 | 1.18E-04 | 8.69E-06 | 8.69E-05 | 4.84E-05 | 1.24E-06 | 1.80E-05 | 1.36E-06 | 1.36E-06 | 7.46E-06 | 6.72E-07 | 9.72E-06 | 6.04E-06 | 6.04E-06 | 2.99E-06 |
| 2863 | 257814.9 | 4086446 | 8.05E-06 | 1.16E-04 | 8.58E-05 | 8.58E-05 | 4.79E-05 | 1.22E-06 | 1.77E-06 | 1.34E-05 | 1.34E-06 | 7.37E-06 | 6.64E-07 | 9.60E-06 | 5.96E-06 | 5.96E-06 | 2.95E-06 |
| 2864 | 257839.2 | 4086445 | 7.95E-06 | 1.15E-04 | 8.48E-05 | 8.48E-05 | 4.73E-05 | 1.21E-06 | 1.75E-05 | 1.32E-05 | 1.32E-06 | 7.28E-06 | 6.56E-07 | 9.48E-06 | 5.89E-06 | 5.89E-06 | 2.92E-06 |
| 2865 | 257863.5 | 4086444 | 7.85E-06 | 1.14E-04 | 8.37E-05 | 8.37E-05 | 4.67E-06 | 1.19E-06 | 1.73E-05 | 1.31E-05 | 1.31E-05 | 7.18E-06 | 6.47E-07 | 9.36E-06 | 5.81E-06 | 5.81E-06 | 2.88E-06 |
| 2866 | 257887.8 | 4086443 | 7.74E-06 | 1.12E-04 | 8.25E-05 | 8.25E-05 | 4.60E-05 | 1.17E-06 | 1.71E-05 | 1.29E-05 | 1.29E-05 | 7.08E-06 | 6.38E-07 | 9.23E-06 | 5.73E-06 | 5.73E-06 | 2.84E-06 |
| 2867 | 257912.1 | 4086441 | 7.63E-06 | 1.10E-04 | 8.13E-05 | 8.13E-05 | 4.53E-05 | 1.16E-06 | 1.68E-05 | 1.27E-05 | 1.27E-05 | 6.98E-06 | 6.29E-07 | 9.10E-06 | 5.65E-06 | 5.65E-06 | 2.80E-06 |
| 2868 | 257936.3 | 4086440 | 7.51E-06 | 1.09E-04 | 8.00E-05 | 8.00E-05 | 4.46E-05 | 1.14E-06 | 1.65E-05 | 1.25E-05 | 1.25E-05 | 6.87E-06 | 6.19E-07 | 8.95E-06 | 5.56E-06 | 5.58E-06 | 2.75E-06 |
| 2869 | 257960.6 | 4086439 | 7.38E-06 | 1.07E-04 | 7.87E-05 | 7.87E-05 | 4.39E-05 | 1.12E-06 | 1.63E-06 | 1.23E-05 | 1.23E-05 | 6.75E-06 | 6.08E-07 | 8.80E-06 | 5.46E-06 | 5.46E-06 | 2.70E-06 |
| 2870 | 257984.9 | 4086438 | 7.24E-06 | 1.05E-04 | 7.72E-05 | 7.72E-06 | 4.31E-05 | 1.10E-06 | 1.60E-05 | 1.21E-06 | 1.21E-05 | 6.63E-06 | 5.97E-07 | 8.64E-06 | 5.36E-06 | 5.36E-06 | 2.66E-06 |
| 2871 | 258009.2 | 4086437 | 7.10E-06 | 1.03E-04 | 7.57E-05 | 7.57E-05 | 4.22E-05 | 1.08E-06 | 1.56E-05 | 1.18E-05 | 1.18E-05 | 6.50E-06 | 5.85E-07 | 8.47E-06 | 5.26E-06 | 5.26E-06 | 2.80E-06 |
| 2872 | 258033.5 | 4086436 | 6.96E-06 | 1.01E-04 | 7.42E-05 | 7.42E-05 | 4.14E-05 | 2.06E-06 | 1.53E-05 | 1.16E-05 | 1.16E-05 | 6.37E-06 | 5.74E-07 | 8.30E-06 | 5.15E-06 | 5.15E-06 | 2.55E-06 |
| 2873 | 258057.8 | 4086435 | 6.82E-06 | 9.86E-06 | 7.27E-06 | 7.27E-05 | 4.05E-05 | 2.03E-06 | 1.50E-05 | 1.13E-05 | 1.13E-05 | 6.24E-06 | 5.62E-07 | 8.13E-06 | 5.05E-06 | 5.05E-06 | 2.50E-06 |
| 2874 | 258082 | 4086434 | 6.67E-06 | 9.65E-06 | 7.12E-05 | 7.11E-05 | 3.97E-05 | 1.01E-06 | 1.47E-05 | 1.11E-05 | 1.11E-05 | 6.11E-06 | 5.50E-07 | 7.95E-06 | 4.94E-06 | 4.94E-06 | 2.45E-06 |
| 2875 | 258106.3 | 4086433 | 6.53E-06 | 9.45E-06 | 6.96E-05 | 6.96E-06 | 3.88E-05 | 9.91E-07 | 1.44E-05 | 1.09E-05 | 1.09E-05 | 5.98E-06 | 5.38E-07 | 7.79E-06 | 4.84E-06 | 4.84E-06 | 2.39E-06 |
| 2876 | 258130.6 | 4086432 | 6.40E-06 | 9.26E-06 | 6.82E-06 | 6.82E-05 | 3.80E-05 | 9.72E-07 | 1.41E-05 | 1.07E-05 | 1.07E-05 | 5.86E-06 | 5.28E-07 | 7.63E-06 | 4.74E-06 | 4.74E-06 | 2.35E-06 |
| 2877 | 258154.9 | 4086431 | 6.28E-06 | 9.08E-06 | 6.69E-06 | 6.69E-05 | 3.73E-05 | 9.53E-07 | 1.38E-06 | 1.05E-05 | 1.05E-05 | 5.75E-06 | 5.18E-07 | 7.49E-06 | 4.65E-06 | 4.65E-06 | 2.30E-06 |
| 2878 | 258179.2 | 4086430 | 6.16E-06 | 8.91E-06 | 6.57E-06 | 6.57E-05 | 3.66E-05 | 9.35E-07 | 1.36E-06 | 1.03E-05 | 1.03E-06 | 5.64E-06 | 5.08E-07 | 7.35E-06 | 4.56E-06 | 4.56E-06 | 2.26E-06 |
| 2879 | 258203.4 | 4086429 | 6.06E-05 | 8.76E-05 | 6.45E-05 | 6.45E-05 | 3.60E-05 | 9.19E-07 | 1.33E-05 | 2.01E-05 | 1.01E-05 | 5.54E-06 | 4.99E-07 | 7.22E-06 | 4.48E-06 | 4.48E-06 | 2.22E-06 |
| 2880 | 258227.7 | 4086427 | 5.95E-06 | 8.61E-05 | 6.35E-05 | 6.35E-05 | 3.54E-05 | 9.03E-07 | 1.31E-06 | 9.91E-06 | 9

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2675 | 257498.4 | 4086213 | 1.29E-05 | 1.87E-04 | 1.37E-04 | 1.37E-04 | 7.66E-05 | 1.96E-06 | 2.84E-05 | 2.15E-05 | 2.15E-05 | 1.18E-05 | 1.06E-06 | 1.54E-05 | 9.55E-06 | 9.55E-06 | 4.73E-06 |
| 2676 | 257475.7 | 4086205 | 1.31E-05 | 1.89E-04 | 1.40E-04 | 1.40E-04 | 7.79E-05 | 1.99E-06 | 2.89E-05 | 2.18E-05 | 2.18E-05 | 1.20E-05 | 1.08E-06 | 1.56E-05 | 9.70E-06 | 9.70E-06 | 4.80E-06 |
| 2677 | 257453 | 4086196 | 1.33E-05 | 1.92E-04 | 1.42E-04 | 1.42E-04 | 7.90E-05 | 2.02E-06 | 2.93E-05 | 2.21E-05 | 2.21E-05 | 1.22E-05 | 1.10E-06 | 1.58E-05 | 9.84E-06 | 9.84E-06 | 4.87E-05 |
| 2678 | 257430.3 | 4086188 | 1.35E-06 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.01E-05 | 2.05E-06 | 2.97E-05 | 2.24E-06 | 2.24E-05 | 1.23E-05 | 1.11E-06 | 1.61E-05 | 9.98E-06 | 9.98E-06 | 4.94E-06 |
| 2679 | 257407.6 | 4086180 | 1.36E-06 | 1.97E-04 | 1.45E-04 | 1.45E-04 | 8.11E-05 | 2.07E-06 | 3.01E-05 | 2.27E-05 | 2.27E-06 | 1.25E-05 | 1.12E-06 | 1.63E-05 | 1.01E-06 | 1.01E-05 | 5.00E-06 |
| 2680 | 257384.9 | 4086172 | 1.38E-05 | 2.00E-04 | 1.47E-04 | 1.47E-04 | 8.20E-05 | 2.09E-06 | 3.04E-05 | 2.30E-05 | 2.30E-06 | 1.26E-05 | 1.14E-06 | 1.65E-05 | 1.02E-05 | 1.02E-05 | 5.06E-06 |
| 2681 | 257362.2 | 4086163 | 1.39E-05 | 2.02E-04 | 1.49E-04 | 1.49E-04 | 8.29E-05 | 2.12E-06 | 3.07E-06 | 2.32E-05 | 2.32E-06 | 1.28E-05 | 1.15E-06 | 1.66E-06 | 1.03E-05 | 1.03E-05 | 5.11E-06 |
| 2682 | 257339.5 | 4086155 | 1.41E-05 | 2.04E-04 | 1.50E-04 | 1.50E-04 | 8.38E-05 | 2.14E-06 | 3.11E-05 | 2.35E-06 | 2.35E-06 | 1.29E-05 | 1.16E-06 | 1.68E-05 | 1.04E-05 | 1.04E-06 | 5.17E-06 |
| 2683 | 257316.8 | 4086147 | 1.43E-05 | 2.06E-04 | 1.52E-04 | 1.52E-04 | 8.48E-05 | 2.16E-06 | 3.14E-05 | 2.37E-05 | 2.37E-06 | 1.31E-05 | 1.18E-06 | 1.70E-05 | 1.06E-06 | 1.06E-06 | 5.23E-06 |
| 2684 | 257294.1 | 4086138 | 1.44E-05 | 2.08E-04 | 1.54E-04 | 1.54E-04 | 8.57E-05 | 2.19E-06 | 3.18E-05 | 2.40E-06 | 2.40E-05 | 1.32E-05 | 1.19E-06 | 1.72E-05 | 1.07E-06 | 1.07E-06 | 5.28E-06 |
| 2685 | 257271.4 | 4086130 | 1.46E-05 | 2.10E-04 | 1.55E-04 | 1.55E-04 | 8.65E-05 | 2.21E-06 | 3.21E-05 | 2.42E-06 | 2.42E-05 | 1.33E-05 | 1.20E-06 | 1.73E-05 | 1.08E-05 | 1.08E-06 | 5.33E-06 |
| 2686 | 257248.8 | 4086122 | 1.47E-05 | 2.13E-04 | 1.57E-04 | 1.57E-04 | 8.73E-05 | 2.23E-06 | 3.24E-05 | 2.45E-05 | 2.45E-05 | 1.34E-05 | 1.21E-06 | 1.75E-05 | 1.09E-05 | 1.09E-05 | 5.39E-06 |
| 2687 | 257226.1 | 4086114 | 1.48E-05 | 2.15E-04 | 1.58E-04 | 1.58E-04 | 8.82E-05 | 2.25E-06 | 3.27E-05 | 2.47E-06 | 2.47E-05 | 1.36E-05 | 1.22E-06 | 1.77E-05 | 1.10E-05 | 1.10E-05 | 5.44E-06 |
| 2688 | 257203.4 | 4086105 | 1.50E-05 | 2.17E-04 | 1.60E-04 | 1.60E-04 | 8.91E-05 | 2.27E-06 | 3.30E-05 | 2.49E-05 | 2.49E-05 | 1.37E-05 | 1.24E-05 | 1.79E-05 | 1.11E-05 | 1.11E-05 | 5.49E-06 |
| 2689 | 257180.7 | 4086097 | 1.51E-05 | 2.19E-04 | 1.61E-04 | 1.61E-04 | 8.99E-05 | 2.29E-06 | 3.33E-05 | 2.52E-05 | 2.52E-05 | 1.38E-05 | 1.25E-06 | 1.80E-05 | 1.12E-05 | 1.12E-05 | 5.54E-06 |
| 2690 | 257158 | 4086089 | 1.52E-06 | 2.20E-04 | 1.62E-04 | 1.62E-04 | 9.06E-05 | 2.31E-06 | 3.36E-05 | 2.54E-05 | 2.54E-05 | 1.39E-05 | 1.26E-06 | 1.82E-06 | 1.13E-05 | 1.13E-05 | 5.59E-06 |
| 2691 | 257135.3 | 4086080 | 1.53E-05 | 2.22E-04 | 1.64E-04 | 1.64E-04 | 9.12E-05 | 2.33E-06 | 3.38E-05 | 2.55E-05 | 2.55E-05 | 1.40E-05 | 1.26E-06 | 1.83E-05 | 1.14E-05 | 1.14E-05 | 5.62E-06 |
| 2692 | 257112.6 | 4086072 | 1.54E-06 | 2.23E-04 | 1.64E-04 | 1.64E-04 | 9.15E-05 | 2.34E-06 | 3.39E-05 | 2.56E-06 | 2.56E-05 | 1.41E-05 | 1.27E-05 | 1.84E-05 | 1.14E-06 | 1.14E-05 | 5.65E-06 |
| 2693 | 257089.9 | 4086064 | 1.54E-05 | 2.23E-04 | 1.65E-04 | 1.65E-04 | 9.18E-05 | 2.34E-06 | 3.40E-05 | 2.57E-05 | 2.57E-05 | 1.41E-06 | 1.27E-06 | 1.84E-05 | 1.14E-05 | 1.14E-05 | 5.66E-06 |
| 2694 | 257067.2 | 4086056 | 1.54E-05 | 2.23E-04 | 1.65E-04 | 1.65E-04 | 9.18E-05 | 2.34E-05 | 3.40E-05 | 2.57E-05 | 2.57E-05 | 1.41E-05 | 1.27E-06 | 1.84E-05 | 1.14E-05 | 1.14E-05 | 5.66E-06 |
| 2695 | 257044.5 | 4086047 | 1.54E-05 | 2.23E-04 | 1.65E-04 | 1.65E-04 | 9.17E-05 | 2.34E-05 | 3.40E-05 | 2.57E-05 | 2.57E-05 | 1.41E-05 | 1.27E-06 | 1.84E-05 | 1.14E-05 | 1.14E-06 | 5.66E-06 |
| 2696 | 257021.8 | 4086039 | 1.54E-05 | 2.23E-04 | 1.64E-04 | 1.64E-04 | 9.15E-05 | 2.34E-06 | 3.39E-05 | 2.56E-05 | 2.56E-05 | 1.41E-05 | 1.27E-06 | 1.84E-05 | 1.14E-05 | 1.14E-05 | 5.65E-06 |
| 2697 | 256999.1 | 4086031 | 1.54E-05 | 2.22E-04 | 1.64E-04 | 1.64E-04 | 9.13E-05 | 2.33E-06 | 3.38E-05 | 2.56E-05 | 2.56E-05 | 1.41E-05 | 1.27E-06 | 1.83E-06 | 1.14E-06 | 1.14E-05 | 5.63E-06 |
| 2698 | 256976.4 | 4086022 | 1.53E-05 | 2.22E-04 | 1.63E-04 | 1.63E-04 | 9.11E-05 | 2.33E-06 | 3.38E-05 | 2.55E-05 | 2.55E-05 | 1.40E-05 | 1.26E-06 | 1.83E-05 | 1.13E-06 | 1.13E-06 | 5.62E-06 |
| 2699 | 256953.8 | 4086014 | 1.53E-05 | 2.21E-04 | 1.63E-04 | 1.63E-04 | 9.09E-05 | 2.32E-06 | 3.37E-05 | 2.54E-05 | 2.54E-05 | 1.40E-05 | 1.26E-06 | 1.82E-05 | 1.13E-05 | 1.13E-06 | 5.60E-06 |
| 2700 | 256931.1 | 4086006 | 1.53E-06 | 2.21E-04 | 1.63E-04 | 1.63E-04 | 9.07E-05 | 2.32E-06 | 3.36E-05 | 2.54E-05 | 2.54E-05 | 1.40E-05 | 1.26E-06 | 1.82E-05 | 1.13E-05 | 1.13E-05 | 5.59E-06 |
| 2701 | 256908.4 | 4085998 | 1.52E-05 | 2.20E-04 | 1.62E-04 | 1.62E-04 | 9.05E-05 | 2.31E-06 | 3.36E-05 | 2.53E-06 | 2.53E-05 | 1.39E-05 | 1.26E-06 | 1.82E-05 | 1.13E-05 | 1.13E-05 | 5.58E-06 |
| 2702 | 256885.7 | 4085989 | 1.52E-05 | 2.20E-04 | 1.62E-04 | 1.62E-04 | 9.03E-06 | 2.31E-06 | 3.35E-06 | 2.53E-05 | 2.53E-05 | 1.39E-05 | 1.25E-06 | 1.81E-05 | 1.13E-05 | 1.13E-05 | 5.57E-06 |
| 2703 | 256863 | 4085981 | 1.52E-06 | 2.19E-04 | 1.62E-04 | 1.62E-04 | 9.02E-05 | 2.30E-06 | 3.34E-06 | 2.52E-05 | 2.52E-05 | 1.39E-05 | 1.25E-06 | 1.81E-05 | 1.12E-06 | 1.12E-06 | 5.56E-06 |
| 2704 | 256840.3 | 4085973 | 1.51E-06 | 2.19E-04 | 1.61E-04 | 1.61E-04 | 9.00E-06 | 2.30E-06 | 3.33E-05 | 2.52E-05 | 2.52E-06 | 1.38E-05 | 1.25E-06 | 1.80E-06 | 1.12E-06 | 1.12E-06 | 5.55E-06 |
| 2705 | 256807.5 | 4085942 | 1.53E-06 | 2.22E-04 | 1.64E-04 | 1.64E-04 | 9.12E-06 | 2.33E-06 | 3.38E-05 | 2.55E-05 | 2.55E-05 | 1.40E-05 | 1.26E-06 | 1.83E-05 | 1.14E-05 | 1.14E-05 | 5.62E-06 |
| 2706 | 256797.4 | 4085920 | 1.56E-05 | 2.25E-04 | 1.66E-04 | 1.66E-04 | 9.25E-05 | 2.36E-06 | 3.43E-05 | 2.59E-05 | 2.59E-05 | 1.42E-05 | 1.28E-06 | 1.86E-05 | 1.15E-05 | 1.15E-06 | 5.71E-06 |
| 2707 | 256787.3 | 4085899 | 1.58E-05 | 2.28E-04 | 1.68E-04 | 1.68E-04 | 9.38E-05 | 2.39E-06 | 3.48E-06 | 2.63E-05 | 2.63E-05 | 1.44E-05 | 1.30E-06 | 1.88E-05 | 1.17E-06 | 1.17E-05 | 5.78E-06 |
| 2708 | 256777.2 | 4085877 | 1.59E-05 | 2.31E-04 | 1.70E-04 | 1.70E-04 | 9.48E-05 | 2.42E-06 | 3.51E-06 | 2.65E-05 | 2.65E-05 | 1.46E-05 | 1.31E-06 | 1.90E-05 | 1.18E-06 | 1.18E-05 | 5.84E-06 |
| 2709 | 256767.1 | 4085855 | 1.61E-05 | 2.32E-04 | 1.71E-04 | 1.71E-04 | 9.55E-05 | 2.44E-06 | 3.54E-05 | 2.67E-05 | 2.67E-05 | 1.47E-05 | 1.32E-06 | 1.92E-05 | 1.19E-06 | 1.19E-05 | 5.89E-06 |
| 2710 | 256757 | 4085833 | 1.61E-05 | 2.33E-04 | 1.72E-04 | 1.72E-04 | 9.58E-05 | 2.45E-06 | 3.55E-05 | 2.68E-05 | 2.68E-05 | 1.48E-05 | 1.33E-06 | 1.92E-05 | 1.19E-05 | 1.19E-05 | 5.91E-06 |
| 2711 | 256746.9 | 4085811 | 1.61E-05 | 2.33E-04 | 1.72E-04 | 1.72E-04 | 9.58E-05 | 2.45E-06 | 3.55E-05 | 2.68E-05 | 2.68E-05 | 1.47E-05 | 1.33E-05 | 1.92E-06 | 1.19E-05 | 1.19E-05 | 5.91E-06 |
| 2712 | 256736.8 | 4085789 | 1.60E-05 | 2.32E-04 | 1.71E-04 | 1.71E-04 | 9.53E-05 | 2.43E-06 | 3.53E-05 | 2.67E-05 | 2.67E-06 | 1.47E-05 | 1.32E-05 | 1.91E-05 | 1.19E-05 | 1.19E-05 | 5.88E-06 |
| 2713 | 256726.7 | 4085767 | 1.59E-05 | 2.30E-04 | 1.69E-04 | 1.69E-04 | 9.43E-05 | 2.41E-06 | 3.50E-05 | 2.64E-05 | 2.64E-05 | 1.45E-05 | 1.31E-06 | 1.89E-05 | 1.18E-05 | 1.18E-05 | 5.82E-06 |
| 2714 | 256716.5 | 4085745 | 1.56E-05 | 2.26E-04 | 1.67E-04 | 1.67E-04 | 9.28E-05 | 2.37E-06 | 3.44E-05 | 2.60E-05 | 2.60E-05 | 1.43E-05 | 1.29E-06 | 1.86E-05 | 1.16E-05 | 1.16E-05 | 5.73E-06 |
| 2715 | 256706.4 | 4085723 | 1.53E-05 | 2.21E-04 | 1.63E-04 | 1.63E-04 | 9.09E-05 | 2.32E-06 | 3.37E-05 | 2.55E-05 | 2.55E-05 | 1.40E-05 | 1.26E-06 | 1.82E-05 | 1.13E-05 | 1.13E-05 | 5.61E-06 |
| 2716 | 256696.3 | 4085701 | 1.49E-05 | 2.16E-04 | 1.59E-04 | 1.59E-04 | 8.86E-05 | 2.26E-06 | 3.29E-05 | 2.48E-05 | 2.48E-05 | 1.36E-05 | 1.23E-06 | 1.78E-06 | 1.10E-06 | 1.10E-05 | 5.47E-06 |
| 2717 | 256686.2 | 4085679 | 1.44E-05 | 2.09E-04 | 1.54E-04 | 1.54E-04 | 8.58E-05 | 2.19E-06 | 3.18E-05 | 2.40E-05 | 2.40E-05 | 1.32E-05 | 1.19E-06 | 1.72E-05 | 1.07E-05 | 1.07E-05 | 5.29E-06 |
| 2718 | 256676.1 | 4085657 | 1.39E-05 | 2.01E-04 | 1.48E-04 | 1.48E-04 | 8.25E-06 | 2.11E-06 | 3.06E-05 | 2.31E-05 | 2.31E-06 | 1.27E-05 | 1.14E-06 | 1.65E-05 | 1.03E-06 | 1.03E-05 | 5.09E-06 |
| 2719 | 256666 | 4085635 | 1.33E-05 | 1.92E-04 | 1.41E-04 | 1.41E-04 | 7.88E-05 | 2.01E-06 | 2.92E-05 | 2.21E-05 | 2.21E-05 | 1.21E-05 | 1.09E-06 | 1.58E-05 | 9.82E-06 | 9.82E-06 | 4.86E-06 |
| 2720 | 256655.9 | 4085613 | 1.26E-05 | 1.82E-04 | 1.34E-04 | 1.34E-04 | 7.48E-05 | 1.91E-06 | 2.77E-05 | 2.10E-05 | 2.10E-05 | 1.15E-05 | 1.04E-06 | 1.50E-05 | 9.33E-06 | 9.33E-06 | 4.62E-05 |
| 2721 | 256645.8 | 4085591 | 1.19E-05 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.07E-05 | 1.81E-06 | 2.62E-05 | 1.98E-05 | 1.98E-05 | 1.09E-05 | 9.81E-07 | 1.42E-05 | 8.81E-06 | 8.81E-06 | 4.36E-06 |
| 2722 | 256635.7 | 4085569 | 1.12E-05 | 1.62E-04 | 1.19E-04 | 1.19E-04 | 6.65E-05 | 1.70E-05 | 2.46E-05 | 1.86E-05 | 1.86E-05 | 1.02E-05 | 9.22E-07 | 1.33E-06 | 8.28E-06 | 8.28E-06 | 4.10E-06 |
| 2723 | 256625.6 | 4085547 | 1.05E-05 | 1.52E-04 | 1.12E-04 | 1.12E-04 | 6.23E-05 | 1.59E-05 | 2.31E-05 | 1.74E-05 | 1.74E-05 | 9.59E-06 | 8.64E-07 | 1.25E-05 | 7.76E-06 | 7.76E-06 | 3.84E-06 |
| 2724 | 256615.5 | 4085526 | 9.80E-06 | 1.42E-04 | 1.05E-04 | 1.05E-04 | 5.83E-05 | 1.49E-05 | 2.16E-05 | 1.63E-05 | 1.63E-05 | 8.97E-06 | 8.08E-07 | 1.17E-05 | 7.26E-06 | 7.26E-06 | 3.59E-06 |
| 2725 | 256605.4 | 4085504 | 9.17E-06 | 1.33E-04 | 9.78E-05 | 9.78E-05 | 5.45E-05 | 1.39E-06 | 2.02E-05 | 1.53E-05 | 1.53E-05 | 8.39E-06 | 7.56E-07 | 1.09E-05 | 6.79E-06 | 6.79E-05 | 3.36E-06 |
| 2726 | 256595.3 | 4085482 | 8.60E-05 | 1.24E-04 | 9.17E-05 | 9.17E-05 | 5.11E-05 | 1.31E-06 | 1.90E-05 | 1.43E-05 | 1.43E-05 | 7.87E-06 | 7.09E-07 | 1.03E-05 | 6.37E-06 | 6.37E-06 | 3.15E-06 |
| 2727 | 256585.2 | 4085460 | 8.10E-06 | 1.17E-04 | 8.64E-06 | 8.64E-05 | 4.82E-05 | 1.23E-06 | 1.79E-05 | 1.35E-05 | 1.35E-05 | 7.41E-06 | 6.68E-07 | 9.66E-06 | 6.00E-06 | 6.00E-06 | 2.97E-06 |
| 2728 | 256575.1 | 4085438 | 7.67E-06 | 1.11E-04 | 8.18E-05 | 8.18E-05 | 4.56E-05 | 1.16E-06 | 1.69E-05 | 1.28E-05 | 1.28E-05 | 7.02E-06 | 6.32E-07 | 9.15E-06 | 5.68E-06 | 5.68E-06 | 2.81E-06 |
| 2729 | 256565 | 4085416 | 7.31E-06 | 1.06E-04 | 7.79E-05 | 7.79E-05 | 4.34E-05 | 1.11E-06 | 1.61E-05 | 1.22E-05 | 1.22E-05 | 6.69E-06 | 6.02E-07 | 8.71E-06 | 5.41E-06 | 5.41E-06 | 2.68E-06 |
| 2730 | 256554.9 | 4085394 | 7.01E-06 | 1.01E-04 | 7.47E-05 | 7.47E-05 | 4.16E-06 | 1.06E-06 | 1.54E-06 | 1.17E-05 | 1.17E-05 | 6.41E-06 | 5.77E-07 | 8.35E-06 | 5.19E-06 | 5.19E-06 | 2.57E-06 |
| 2731 | 256544.8 | 4085372 | 6.75E-06 | 9.76E-06 | 7.20E-05 | 7.20E-05 | 4.01E-05 | 1.02E-06 | 1.49E-05 | 1.12E-05 | 1.12E-05 | 6.18E-06 | 5.56E-07 | 8.05E-06 | 5.00E-05 | 5.00E-06 | 2.47E-06 |
| 2732 | 256534.7 | 4085350 | 6.53E-06 | 9.44E-06 | 6.96E-05 | 6.96E-05 | 3.88E-05 | 9.91E-07 | 1.44E-05 | 1.09E-06 | 1.09E-06 | 5.97E-06 | 5.38E-07 | 7.78E-06 | 4.83E-06 | 4.83E-06 | 2.39E-06 |
| 2733 | 256524.5 | 4085328 | 6.33E-06 | 9.16E-06 | 6.75E-06 | 6.75E-05 | 3.76E-05 | 9.61E-07 | 1.40E-05 | 1.05E-06 | 1.05E-06 | 5.80E-06 | 5.22E-07 | 7.55E-06 | 4.69E-06 | 4.69E-06 | 2.32E-06 |
| 2734 | 256514.4 | 4085306 | 6.16E-06 | 8.91E-05 | 6.56E-05 | 6.56E-05 | 3.66E-05 | 9.35E-07 | 1.36E-05 | 1.02E-05 | 1.02E-06 | 5.63E-06 | 5.08E-07 | 7.34E-06 | 4.56E-06 | 4.56E-06 | 2.26E-06 |
| 2735 | 256504.3 | 4085284 | 5.99E-05 | 8.67E-05 | 6.39E-05 | 6.39E-05 | 3.56E-05 | 9.09E-07 | 1.32E-05 | 9.97E-06 | 9.97E-06 | 5.48E-06 | 4.94E-07 | 7.14E-06 | 4.44E-06 | 4.44E-06 | 2.20E-06 |
| 2736 | 256494.2 | 4085262 | 5.84E-06 | 8.45E-05 | 6.23E-06 | 6.23E-05 | 3.47E-05 | 8.86E-07 | 1.29E-05 | 9.72E-06 | 9.72E-06 | 5.34E-06 | 4.81E-07 | 6.96E-06 | 4.32E-06 | 4.32E-06 | 2.14E-06 |
| 2737 | 256484.1 | 4085240 | 5.70E-06 | 8.24E-06 | 6.07E-05 | 6.07E-05 | 3.39E-05 | 8.65E-07 | 1.26E-05 | 9.49E-06 | 9.49E-06 | 5.21E-06 | 4.70E-07 | 6.79E-06 | 4.22E-06 | 4.22E-06 | 2.09E-06 |
| 2738 | 256474 | 4085218 | 5.57E-06 | 8.06E-06 | 5.94E-05 | 5.94E-05 | 3.31E-05 | 8.46E-07 | 1.23E-05 | 9.28E-06 | 9.28E-06 | 5.10E-06 | 4.59E-07 | 6.64E-05 | 4.13E-05 | 4.13E-05 | 2.04E-06 |
| 2739 | 257611.8 | 4086255 | 1.17E-05 | 1.69E-04 | 1.25E-04 | 1.25E-04 | 6.96E-05 | 1.78E-06 | 2.58E-05 | 1.95E-05 | 1.95E-05 | 1.07E-05 | 9.65E-07 | 1.40E-05 | 8.67E-05 | 8.67E-05 | 4.29E-06 |
| 2740 | 257636.1 | 4086253 | 1.16E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.88E-05 | 1.76E-06 | 2.55E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.54E-07 | 1.36E-05 | 8.57E-06 | 8.57E-05 | 4.24E-06 |
| 2741 | 257660.4 | 4086252 | 1.14E-06 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.79E-06 | 1.74E-06 | 2.52E-05 | 1.90E-06 | 1.90E-05 | 1.05E-05 | 9.42E-07 | 1.36E-06 | 8.47E-06 | 8.47E-06 | 4.19E-06 |
| 2742 | 257684.7 | 4086251 | 1.13E-06 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.70E-06 | 1.71E-06 | 2.48E-05 | 1.88E-05 | 1.88E-05 | 1.03E-05 | 9.29E-07 | 1.34E-05 | 8.35E-06 | 8.35E-06 | 4.13E-06 |
| 2743 | 257709 | 4086250 | 1.11E-05 | 1.61E-04 | 1.18E-04 | 1.18E-04 | 6.60E-05 | 1.69E-06 | 2.45E-05 | 1.85E-05 | 1.85E-06 | 1.02E-06 | 9.15E-07 | 1.32E-05 | 8.23E-06 | 8.23E-06 | 4.07E-06 |
| 2744 | 257733.2 | 4086249 | 1.09E-05 | 1.58E-04 | 1.16E-04 | 1.16E-04 | 6.49E-05 | 1.66E-06 | 2.41E-05 | 1.82E-05 | 1.82E-06 | 1.00E-05 | 9.01E-07 | 1.30E-06 | 8.09E-06 | 8.09E-06 | 4.01E-06 |
| 2745 | 257757.5 | 4086248 | 1.07E-05 | 1.55E-04 | 1.15E-04 | 1.15E-04 | 6.39E-05 | 1.63E-06 | 2.37E-05 | 1.79E-05 | 1.79E-05 | 9.83E-06 | 8.86E-07 | 1.28E-05 | 7.96E-05 | 7.96E-06 | 3.94E-06 |
| 2746 | 257781.8 | 4086247 | 1.06E-05 | 1.53E-04 | 1.13E-04 | 1.13E-04 | 6.28E-05 | 1.60E-06 | 2.33E-05 | 1.76E-05 | 1.76E-05 | 9.67E-06 | 8.71E-07 | 1.26E-05 | 7.82E-06 | 7.82E-06 | 3.87E-06 |
| 2747 | 257806.1 | 4086246 | 1.04E-05 | 1.50E-04 | 1.11E-04 | 1.11E-04 | 6.16E-05 | 1.57E-06 | 2.29E-05 | 1.73E-05 | 1.73E-05 | 9.49E-06 | 8.55E-07 | 1.24E-05 | 7.68E-05 | 7.68E-05 | 3.80E-06 |
| 2748 | 257830.4 | 4086245 | 1.02E-05 | 1.47E-04 | 1.09E-04 | 1.09E-04 | 6.05E-05 | 1.54E-06 | 2.24E-05 | 1.69E-05 | 1.69E-05 | 9.31E-06 | 8.39E-07 | 1.21E-06 | 7.54E-05 | 7.54E-05 | 3.73E-06 |
| 2749 | 257854.7 | 4086244 | 1.00E-05 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.94E-05 | 1.52E-06 | 2.20E-05 | 1.66E-05 | 1.66E-05 | 9.15E-05 | 8.24E-07 | 1.19E-05 | 7.41E-05 | 7.41E-05 | 3.67E-06 |
| 2750 | 257878.9 | 4086243 | 9.82E-06 | 1.42E-04 | 1.05E-04 | 1.05E-04 | 5.83E-05 | 1.49E-06 | 2.16E-05 | 1.63E-05 | 1.63E-05 | 8.98E-06 | 8.09E-07 | 1.17E-05 | 7.27E-05 | 7.27E-06 | 3.60E-06 |
| 2751 | 257903.2 | 4086242 | 9.64E-06 | 1.39E-04 | 1.03E-04 | 1.03E-04 | 5.73E-05 | 1.46E-06 | 2.12E-05 | 1.60E-05 | 1.60E-05 | 8.82E-06 | 7.94E-07 | 1.15E-05 | 7.14E-06 | 7.14E-06 | 3.53E-06 |
| 2752 | 257927.5 | 4086241 | 9.47E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.63E-05 | 1.44E-06 | 2.09E-05 | 1.58E-05 | 1.58E-06 | 8.66E-06 | 7.81E-07 | 1.13E-06 | 7.01E-06 | 7.01E-06 | 3.47E-06 |
| 2753 | 257951.8 | 4086239 | 9.30E-06 | 1.35E-04 | 9.92E-06 | 9.92E-05 | 5.53E-05 | 1.41E-06 | 2.05E-05 | 1.55E-05 | 1.55E-05 | 8.51E-06 | 7.67E-07 | 1.11E-06 | 6.89E-05 | 6.89E-05 | 3.41E-05 |
| 2754 | 257976.1 | 4086238 | 9.14E-06 | 1.32E-04 | 9.74E-05 | 9.74E-05 | 5.43E-05 | 1.39E-06 | 2.01E-05 | 1.52E-05 | 1.52E-05 | 8.36E-06 | 7.53E-07 | 1.09E-05 | 6.77E-05 | 6.77E-05 | 3.35E-06 |
| 2755 | 258000.3 | 4086237 | 8.98E-06 | 1.30E-04 | 9.57E-05 | 9.57E-05 | 5.33E-05 | 1.36E-06 | 1.98E-05 | 1.49E-05 | 1.49E-06 | 8.21E-06 | 7.40E-07 | 1.07E-05 | 6.65E-06 | 6.65E-06 | 3.29E-06 |
| 2756 | 258024.6 | 4086236 | 8.81E-06 | 1.27E-04 | 9.39E-05 | 9.39E-05 | 5.24E-05 | 1.34E-06 | 1.94E-05 | 1.47E-05 | 1.47E-05 | 8.06E-06 | 7.26E-07 | 1.05E-05 | 6.53E-06 | 6.53E-06 | 3.23E-06 |
| 2757 | 258048.9 | 4086235 | 8.65E-06 | 1.25E-04 | 9.22E-06 | 9.22E-05 | 5.14E-05 | 1.31E-06 | 1.91E-05 | 1.44E-05 | 1.44E-06 | 7.91E-06 | 7.13E-07 | 1.03E-06 | 6.40E-06 | 6.40E-06 | 3.17E-06 |
| 2758 | 258073.2 | 4086234 | 8.48E-05 | 1.23E-04 | 9.04E-05 | 9.04E-05 | 5.04E-05 | 1.29E-06 | 1.87E-05 | 1.41E-05 | 1.41E-05 | 7.76E-06 | 6.99E-07 | 1.01E-05 | 6.28E-05 | 6.28E-05 | 3.11E-06 |
| 2759 | 258097.5 | 4086233 | 8.32E-06 | 1.20E-04 | 8.87E-05 | 8.87E-06 | 4.94E-05 | 1.26E-06 | 1.83E-05 | 1.38E-06 | 1.38E-05 | 7.61E-06 | 6.86E-07 | 9.92E-06 | 6.16E-05 | 6.16E-06 | 3.05E-06 |
| 2760 | 258121.8 | 4086232 | 8.18E-06 | 1.18E-04 | 8.72E-06 | 8.72E-05 | 4.86E-05 | 1.24E-06 | 1.80E-05 | 1.36E-05 | 1.36E-05 | 7.48E-06 | 6.74E-07 | 9.75E-06 | 6.06E-06 | 6.06E-06 | 3.00E-06 |
| 2761 | 258146 | 4086231 | 8.02E-06 | 1.16E-04 | 8.55E-06 | 8.55E-06 | 4.77E-05 | 1.22E-06 | 1.77E-05 | 1.34E-05 | 1.34E-06 | 7.34E-06 | 6.61E-07 | 9.56E-06 | 5.94E-06 | 5.94E-06 | 2.94E-06 |
| 2762 | 258170.3 | 4086230 | 7.86E-06 | 1.14E-04 | 8.38E-05 | 8.38E-05 | 4.67E-05 | 1.19E-06 | 1.73E-05 | 1.31E-05 | 1.31E-05 | 7.19E-06 | 6.48E-07 | 9.37E-06 | 5.82E-06 | 5.82E-06 | 2.88E-06 |
| 2763 | 258194.6 | 4086229 | 7.69E-06 | 1.11E-04 | 8.20E-05 | 8.20E-05 | 4.57E-05 | 1.17E-06 | 1.70E-05 | 1.28E-05 | 1.28E-05 | 7.04E-06 | 6.34E-07 | 9.17E-06 | 5.70E-06 | 5.70E-06 | 2.82E-06 |
| 2764 | 258218.9 | 4086228 | 7.53E-06 | 1.09E-04 | 8.03E-05 | 8.03E-05 | 4.48E-05 | 1.14E-06 | 1.66E-05 | 1.25E-05 | 1.25E-05 | 6.89E-06 | 6.21E-07 | 8.98E-06 | 5.58E-06 | 5.58E-06 | 2.76E-06 |
| 2765 | 258243.2 | 4086227 | 7.37E-06 | 1.07E-04 | 7.86E-05 | 7.86E-05 | 4.38E-05 | 1.12E-06 | 1.62E-05 | 1.23E-05 | 1.23E-05 | 6.74E-06 | 6.07E-07 | 8.78E-06 | 5.46E-06 | 5.46E-06 | 2.70E-06 |
| 2766 | 258267.4 | 4086225 | 7.20E-06 | 1.04E-04 | 7.68E-05 | 7.68E-05 | 4.28E-05 | 1.09E-06 | 1.59E-05 | 1.20E-05 | 1.20E-05 | 6.59E-06 | 5.94E-07 | 8.59E-06 | 5.33E-06 | 5.33E-06 | 2.64E-06 |
| 2767 | 258291.7 | 4086224 | 7.03E-06 | 1.02E-04 | 7.50E-06 | 7.50E-05 | 4.18E-05 | 1.07E-06 | 1.55E-05 | 1.17E-05 | 1.17E-05 | 6.44E-06 | 5.80E-07 | 8.39E-06 | 5.21E-06 | 5.21E-06 | 2.58E-06 |
| 2768 | 258316 | 4086223 | 6.86E-06 | 9.93E-05 | 7.32E-05 | 7.32E-06 | 4.08E-05 | 1.04E-06 | 1.51E-05 | 1.14E-05 | 1.14E-06 | 6.28E-06 | 5.66E-07 | 8.18E-06 | 5.08E-06 | 5.08E-06 | 2.52E-06 |
| 2769 | 258340.3 | 4086222 | 6.69E-06 | 9.68E-05 | 7.14E-05 | 7.14E-05 | 3.98E-05 | 1.02E-06 | 1.48E-05 | 1.11E-05 | 1.11E-05 | 6.13E-06 | 5.52E-07 | 7.98E-06 | 4.96E-06 | 4.96E-06 | 2.45E-06 |
| 2770 | 258364.6 | 4086221 | 6.53E-05 | 9.44E-05 | 6.96E-06 | 6.96E-05 | 3.88E-05 | 9.91E-07 | 1.44E-05 | 1.09E-06 | 1.09E-05 | 5.97E-06 | 5.38E-07 | 7.78E-06 | 4.83E-06 | 4.83E-06 | 2.39E-06 |
| 2771 | 258388.9 | 4086220 | 6.36E-05 | 9.20E-05 | 6.78E-05 | 6.78E-05 | 3.78E-05 | 9.65E-07 | 1.40E-05 | 1.06E-05 | 1.06E-05 | 5.82E-06 | 5.24E-07 | 7.58E-06 | 4.71E-06 | 4.71E-06 | 2.33E-06 |
| 2772 | 258413.1 | 4086219 | 6.19E-05 | 8.96E-05 | 6.60E-05 | 6.60E-05 | 3.68E-05 | 9.40E-07 | 1.36E-05 | 1.03E-05 | 1.03E-05 | 5.67E-06 | 5.11E-07 | 7.39E-06 | 4.59E-05 | 4.59E-06 | 2.27E-06 |
| 2773 | 257598.3 | 4086446 | 9.13E-06 | 1.32E-04 | 9.73E-05 | 9.73E-05 | 5.43E-05 | 1.39E-06 | 2.01E-05 | 1.52E-05 | 1.52E-05 | 8.36E-06 | 7.53E-07 | 1.09E-05 | 6.76E-05 | 6.76E-06 | 3.35E-06 |
| 2774 | 257576 | 4086438 | 9.34E-06 | 1.35E-04 | 9.95E-05 | 9.95E-05 | 5.55E-05 | 1.42E-06 | 2.06E-05 | 1.55E-06 | 1.55E-06 | 8.54E-06 | 7.70E-07 | 1.11E-05 | 6.91E-05 | 6.91E-06 | 3.42E-06 |
| 2775 | 257553.6 | 4086430 | 9.54E-06 | 1.38E-04 | 1.02E-04 | 1.02E-04 | 5.67E-05 | 1.45E-06 | 2.10E-05 | 1.59E-05 | 1.59E-06 | 8.73E-06 | 7.86E-07 | 1.14E-05 | 7.06E-06 | 7.06E-06 | 3.50E-06 |
| 2776 | 257531.3 | 4086422 | 9.73E-06 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.78E-05 | 1.48E-06 | 2.14E-05 | 1.62E-06 | 1.62E-05 | 8.91E-06 | 8.02E-07 | 1.16E-05 | 7.21E-06 | 7.21E-06 | 3.57E-06 |
| 2777 | 257508.9 | 4086414 | 9.92E-06 | 1.43E-04 | 1.06E-04 | 1.06E-04 | 5.90E-05 | 1.51E-06 | 2.

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2572 | 258201.2 | 4085828 | 1.45E-05 | 2.09E-04 | 1.54E-04 | 1.54E-04 | 8.59E-05 | 2.19E-06 | 3.18E-05 | 2.41E-05 | 2.41E-05 | 1.32E-05 | 1.19E-06 | 1.72E-05 | 1.07E-05 | 1.07E-05 | 5.30E-06 |
| 2573 | 258225.5 | 4085827 | 1.40E-05 | 2.02E-04 | 1.49E-04 | 1.49E-04 | 8.29E-05 | 2.12E-05 | 3.07E-05 | 2.32E-05 | 2.32E-05 | 1.28E-05 | 1.15E-06 | 1.66E-05 | 1.03E-05 | 1.03E-05 | 5.12E-05 |
| 2574 | 258249.7 | 4085826 | 1.35E-05 | 1.95E-04 | 1.43E-04 | 1.43E-04 | 8.00E-05 | 2.04E-05 | 2.97E-05 | 2.24E-05 | 2.24E-05 | 1.23E-06 | 1.11E-06 | 1.60E-05 | 9.97E-06 | 9.97E-05 | 4.93E-06 |
| 2575 | 258274 | 4085825 | 1.30E-05 | 1.88E-04 | 1.38E-04 | 1.38E-04 | 7.71E-05 | 1.97E-06 | 2.86E-05 | 2.16E-05 | 2.16E-05 | 1.19E-05 | 1.07E-06 | 1.55E-05 | 9.60E-05 | 9.60E-06 | 4.75E-06 |
| 2576 | 258298.3 | 4085824 | 1.25E-05 | 1.81E-04 | 1.33E-04 | 1.33E-04 | 7.42E-05 | 1.90E-06 | 2.75E-05 | 2.08E-05 | 2.08E-05 | 1.14E-05 | 1.03E-05 | 1.49E-05 | 9.25E-06 | 9.25E-06 | 4.58E-06 |
| 2577 | 258322.6 | 4085823 | 1.20E-05 | 1.74E-04 | 1.28E-04 | 1.28E-04 | 7.14E-05 | 1.82E-06 | 2.65E-05 | 2.00E-05 | 2.00E-05 | 1.10E-05 | 9.90E-07 | 1.43E-05 | 8.90E-06 | 8.90E-05 | 4.40E-06 |
| 2578 | 258346.9 | 4085822 | 1.16E-06 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.87E-05 | 1.75E-05 | 2.55E-05 | 1.92E-05 | 1.92E-05 | 1.06E-05 | 9.52E-07 | 1.38E-05 | 8.56E-05 | 8.56E-06 | 4.24E-05 |
| 2579 | 258371.2 | 4085821 | 1.11E-05 | 1.61E-04 | 1.18E-04 | 1.18E-04 | 6.60E-05 | 1.69E-05 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.02E-05 | 9.15E-07 | 1.32E-05 | 8.23E-05 | 8.23E-05 | 4.07E-05 |
| 2580 | 258395.4 | 4085819 | 1.07E-05 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.34E-05 | 1.62E-06 | 2.35E-05 | 1.78E-05 | 1.78E-05 | 9.77E-05 | 8.80E-07 | 1.27E-05 | 7.90E-05 | 7.90E-05 | 3.91E-06 |
| 2581 | 257580.6 | 4086047 | 1.64E-05 | 2.37E-04 | 1.74E-04 | 1.74E-04 | 9.72E-05 | 2.48E-06 | 3.61E-05 | 2.72E-05 | 2.72E-05 | 1.50E-05 | 1.35E-05 | 1.95E-05 | 1.21E-05 | 1.21E-05 | 6.00E-06 |
| 2582 | 257558.2 | 4086038 | 1.67E-05 | 2.41E-04 | 1.78E-04 | 1.78E-04 | 9.92E-05 | 2.53E-06 | 3.68E-05 | 2.78E-05 | 2.78E-05 | 1.53E-05 | 1.38E-06 | 1.99E-05 | 1.24E-05 | 1.24E-05 | 6.12E-06 |
| 2583 | 257535.8 | 4086030 | 1.70E-05 | 2.46E-04 | 1.81E-04 | 1.81E-04 | 1.01E-04 | 2.58E-06 | 3.75E-05 | 2.83E-05 | 2.83E-05 | 1.56E-05 | 1.40E-05 | 2.03E-05 | 1.26E-05 | 1.26E-05 | 6.24E-06 |
| 2584 | 257513.4 | 4086022 | 1.73E-05 | 2.50E-04 | 1.84E-04 | 1.84E-04 | 1.03E-04 | 2.63E-06 | 3.81E-05 | 2.88E-05 | 2.88E-05 | 1.58E-05 | 1.43E-06 | 2.06E-05 | 1.28E-05 | 1.28E-05 | 6.34E-05 |
| 2585 | 257490.9 | 4086014 | 1.76E-05 | 2.54E-04 | 1.87E-04 | 1.87E-04 | 1.04E-04 | 2.67E-06 | 3.87E-05 | 2.92E-05 | 2.92E-05 | 1.61E-05 | 1.45E-06 | 2.09E-05 | 1.30E-05 | 1.30E-05 | 6.44E-05 |
| 2586 | 257468.5 | 4086006 | 1.78E-05 | 2.58E-04 | 1.90E-04 | 1.90E-04 | 1.06E-04 | 2.70E-06 | 3.92E-05 | 2.96E-05 | 2.96E-05 | 1.63E-05 | 1.47E-05 | 2.12E-05 | 1.32E-05 | 1.32E-05 | 6.53E-06 |
| 2587 | 257446.1 | 4085997 | 1.80E-06 | 2.61E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.74E-05 | 3.98E-05 | 3.00E-05 | 3.00E-05 | 1.65E-05 | 1.49E-05 | 2.15E-05 | 1.34E-05 | 1.34E-05 | 6.61E-05 |
| 2588 | 257423.7 | 4085989 | 1.83E-05 | 2.64E-04 | 1.95E-04 | 1.95E-04 | 1.09E-04 | 2.77E-05 | 4.02E-05 | 3.04E-05 | 3.04E-05 | 1.67E-05 | 1.51E-06 | 2.18E-05 | 1.35E-05 | 1.35E-05 | 6.69E-06 |
| 2589 | 257401.3 | 4085981 | 1.85E-06 | 2.67E-04 | 1.97E-04 | 1.97E-04 | 1.10E-04 | 2.80E-05 | 4.07E-05 | 3.07E-05 | 3.07E-05 | 1.69E-05 | 1.52E-06 | 2.20E-05 | 1.37E-05 | 1.37E-05 | 6.77E-05 |
| 2590 | 257378.9 | 4085973 | 1.87E-05 | 2.70E-04 | 1.99E-04 | 1.99E-04 | 1.11E-04 | 2.83E-05 | 4.11E-05 | 3.11E-05 | 3.11E-05 | 1.71E-05 | 1.54E-06 | 2.23E-05 | 1.38E-05 | 1.38E-05 | 6.85E-05 |
| 2591 | 257356.5 | 4085965 | 1.89E-05 | 2.73E-04 | 2.01E-04 | 2.01E-04 | 1.12E-04 | 2.86E-05 | 4.16E-05 | 3.14E-05 | 3.14E-05 | 1.73E-05 | 1.56E-06 | 2.25E-05 | 1.40E-05 | 1.40E-05 | 6.92E-06 |
| 2592 | 257334.1 | 4085956 | 1.91E-05 | 2.76E-04 | 2.03E-04 | 2.03E-04 | 1.13E-04 | 2.90E-05 | 4.20E-05 | 3.18E-05 | 3.18E-05 | 1.75E-05 | 1.57E-06 | 2.27E-05 | 1.41E-05 | 1.41E-05 | 6.99E-06 |
| 2593 | 257311.7 | 4085948 | 1.93E-05 | 2.79E-04 | 2.06E-04 | 2.06E-04 | 1.15E-04 | 2.93E-05 | 4.25E-05 | 3.21E-05 | 3.21E-05 | 1.76E-05 | 1.59E-05 | 2.30E-06 | 1.43E-05 | 1.43E-05 | 7.07E-06 |
| 2594 | 257289.3 | 4085940 | 1.95E-05 | 2.82E-04 | 2.08E-04 | 2.08E-04 | 1.16E-04 | 2.96E-05 | 4.30E-05 | 3.24E-05 | 3.24E-05 | 1.78E-05 | 1.61E-05 | 2.32E-05 | 1.44E-05 | 1.44E-05 | 7.15E-06 |
| 2595 | 257266.9 | 4085932 | 1.97E-05 | 2.85E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 2.99E-06 | 4.34E-05 | 3.28E-05 | 3.28E-05 | 1.80E-05 | 1.62E-05 | 2.35E-05 | 1.46E-05 | 1.46E-05 | 7.22E-05 |
| 2596 | 257244.5 | 4085924 | 1.99E-05 | 2.87E-04 | 2.12E-04 | 2.12E-04 | 1.18E-04 | 3.01E-06 | 4.38E-05 | 3.31E-05 | 3.31E-05 | 1.82E-05 | 1.64E-06 | 2.37E-05 | 1.47E-05 | 1.47E-05 | 7.28E-05 |
| 2597 | 257222.1 | 4085916 | 2.00E-05 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.04E-06 | 4.41E-05 | 3.33E-05 | 3.33E-05 | 1.83E-05 | 1.65E-06 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.33E-05 |
| 2598 | 257199.6 | 4085907 | 2.01E-05 | 2.91E-04 | 2.14E-04 | 2.14E-04 | 1.19E-04 | 3.05E-06 | 4.43E-05 | 3.34E-05 | 3.34E-05 | 1.84E-05 | 1.66E-05 | 2.40E-05 | 1.49E-05 | 1.49E-05 | 7.36E-06 |
| 2599 | 257177.2 | 4085899 | 2.01E-05 | 2.91E-04 | 2.15E-04 | 2.15E-04 | 1.20E-04 | 3.05E-05 | 4.43E-05 | 3.35E-05 | 3.35E-05 | 1.84E-05 | 1.66E-05 | 2.40E-05 | 1.49E-05 | 1.49E-05 | 7.38E-06 |
| 2600 | 257154.8 | 4085891 | 2.01E-05 | 2.91E-04 | 2.14E-04 | 2.14E-04 | 1.19E-04 | 3.05E-05 | 4.43E-05 | 3.35E-05 | 3.35E-05 | 1.84E-05 | 1.66E-06 | 2.40E-05 | 1.49E-05 | 1.49E-05 | 7.37E-06 |
| 2601 | 257132.4 | 4085883 | 2.00E-05 | 2.90E-04 | 2.14E-04 | 2.14E-04 | 1.19E-04 | 3.04E-06 | 4.42E-05 | 3.34E-05 | 3.34E-06 | 1.83E-05 | 1.65E-06 | 2.39E-05 | 1.48E-05 | 1.48E-05 | 7.35E-06 |
| 2602 | 257110 | 4085875 | 2.00E-05 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.03E-05 | 4.40E-05 | 3.32E-05 | 3.32E-05 | 1.83E-05 | 1.64E-06 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.32E-06 |
| 2603 | 257087.6 | 4085866 | 1.99E-05 | 2.87E-04 | 2.12E-04 | 2.12E-04 | 1.18E-04 | 3.01E-05 | 4.37E-05 | 3.30E-05 | 3.30E-05 | 1.82E-05 | 1.64E-05 | 2.37E-05 | 1.47E-05 | 1.47E-05 | 7.28E-05 |
| 2604 | 257065.2 | 4085858 | 1.97E-05 | 2.85E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 3.00E-06 | 4.35E-05 | 3.28E-05 | 3.28E-05 | 1.81E-05 | 1.63E-06 | 2.35E-05 | 1.46E-05 | 1.46E-05 | 7.23E-06 |
| 2605 | 257042.8 | 4085850 | 1.96E-05 | 2.84E-04 | 2.09E-04 | 2.09E-04 | 1.17E-04 | 2.98E-06 | 4.32E-05 | 3.27E-05 | 3.27E-05 | 1.80E-05 | 1.62E-05 | 2.34E-05 | 1.45E-05 | 1.45E-05 | 7.19E-06 |
| 2606 | 257020.4 | 4085842 | 1.95E-05 | 2.82E-04 | 2.08E-04 | 2.08E-04 | 1.16E-04 | 2.96E-06 | 4.30E-05 | 3.25E-05 | 3.25E-05 | 1.78E-05 | 1.61E-05 | 2.33E-05 | 1.44E-05 | 1.44E-05 | 7.15E-06 |
| 2607 | 256998 | 4085834 | 1.94E-05 | 2.80E-04 | 2.07E-04 | 2.07E-04 | 1.15E-04 | 2.94E-06 | 4.27E-05 | 3.23E-05 | 3.23E-05 | 1.77E-05 | 1.60E-05 | 2.31E-05 | 1.44E-05 | 1.44E-05 | 7.10E-05 |
| 2608 | 256975.6 | 4085826 | 1.92E-05 | 2.78E-04 | 2.05E-04 | 2.05E-04 | 1.14E-04 | 2.92E-05 | 4.24E-05 | 3.20E-05 | 3.20E-05 | 1.76E-05 | 1.59E-05 | 2.29E-05 | 1.43E-05 | 1.43E-05 | 7.06E-05 |
| 2609 | 256943.2 | 4085796 | 1.94E-05 | 2.80E-04 | 2.07E-04 | 2.07E-04 | 1.15E-04 | 2.94E-05 | 4.27E-05 | 3.23E-05 | 3.23E-05 | 1.77E-05 | 1.60E-05 | 2.31E-05 | 1.44E-05 | 1.44E-05 | 7.11E-05 |
| 2610 | 256933.2 | 4085774 | 1.96E-05 | 2.84E-04 | 2.09E-04 | 2.09E-04 | 1.17E-04 | 2.98E-06 | 4.33E-05 | 3.27E-05 | 3.27E-05 | 1.80E-05 | 1.62E-05 | 2.34E-05 | 1.45E-05 | 1.45E-05 | 7.20E-05 |
| 2611 | 256923.2 | 4085752 | 1.99E-05 | 2.87E-04 | 2.12E-04 | 2.12E-04 | 1.18E-04 | 3.01E-06 | 4.38E-05 | 3.31E-05 | 3.31E-05 | 1.82E-05 | 1.64E-05 | 2.37E-05 | 1.47E-05 | 1.47E-05 | 7.28E-05 |
| 2612 | 256913.2 | 4085731 | 2.00E-05 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.03E-06 | 4.40E-05 | 3.32E-05 | 3.32E-05 | 1.83E-05 | 1.65E-05 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.32E-05 |
| 2613 | 256903.3 | 4085709 | 2.00E-05 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.03E-05 | 4.40E-05 | 3.33E-05 | 3.33E-05 | 1.83E-05 | 1.65E-05 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.33E-05 |
| 2614 | 256893.3 | 4085687 | 1.99E-06 | 2.88E-04 | 2.12E-04 | 2.12E-04 | 1.18E-04 | 3.02E-05 | 4.38E-05 | 3.31E-05 | 3.31E-05 | 1.82E-05 | 1.64E-05 | 2.37E-05 | 1.47E-05 | 1.47E-05 | 7.30E-05 |
| 2615 | 256883.3 | 4085666 | 1.97E-05 | 2.85E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 2.99E-06 | 4.34E-05 | 3.28E-05 | 3.28E-05 | 1.80E-05 | 1.62E-05 | 2.35E-05 | 1.46E-05 | 1.46E-05 | 7.22E-05 |
| 2616 | 256873.3 | 4085644 | 1.94E-06 | 2.80E-04 | 2.07E-04 | 2.07E-04 | 1.15E-04 | 2.94E-05 | 4.27E-05 | 3.23E-05 | 3.23E-05 | 1.77E-05 | 1.60E-05 | 2.31E-05 | 1.44E-05 | 1.44E-05 | 7.10E-05 |
| 2617 | 256863.4 | 4085622 | 1.89E-06 | 2.74E-04 | 2.02E-04 | 2.02E-04 | 1.13E-04 | 2.87E-05 | 4.17E-05 | 3.15E-05 | 3.15E-05 | 1.73E-05 | 1.56E-05 | 2.26E-05 | 1.40E-05 | 1.40E-05 | 6.94E-06 |
| 2618 | 256853.4 | 4085601 | 1.84E-05 | 2.66E-04 | 1.96E-04 | 1.96E-04 | 1.09E-04 | 2.79E-06 | 4.05E-05 | 3.06E-05 | 3.06E-05 | 1.68E-05 | 1.51E-05 | 2.19E-05 | 1.36E-05 | 1.36E-05 | 6.74E-06 |
| 2619 | 256843.4 | 4085579 | 1.77E-05 | 2.56E-04 | 1.89E-04 | 1.89E-04 | 1.05E-04 | 2.69E-06 | 3.90E-05 | 2.95E-05 | 2.95E-05 | 1.62E-05 | 1.46E-05 | 2.11E-05 | 1.31E-05 | 1.31E-05 | 6.49E-06 |
| 2620 | 256833.4 | 4085557 | 1.69E-05 | 2.45E-04 | 1.81E-04 | 1.81E-04 | 1.01E-04 | 2.57E-06 | 3.73E-05 | 2.82E-05 | 2.82E-05 | 1.55E-05 | 1.40E-05 | 2.02E-05 | 1.25E-05 | 1.25E-05 | 6.21E-06 |
| 2621 | 256823.4 | 4085536 | 1.61E-05 | 2.33E-04 | 1.71E-04 | 1.71E-04 | 9.56E-05 | 2.44E-06 | 3.54E-05 | 2.68E-05 | 2.68E-05 | 1.47E-05 | 1.33E-06 | 1.92E-05 | 1.19E-05 | 1.19E-05 | 5.89E-06 |
| 2622 | 256813.5 | 4085514 | 1.52E-05 | 2.19E-04 | 1.62E-04 | 1.62E-04 | 9.01E-05 | 2.30E-05 | 3.34E-05 | 2.52E-06 | 2.52E-06 | 1.39E-05 | 1.25E-06 | 1.81E-06 | 1.12E-06 | 1.12E-06 | 5.56E-05 |
| 2623 | 256803.5 | 4085492 | 1.42E-05 | 2.06E-04 | 1.52E-04 | 1.52E-04 | 8.45E-05 | 2.16E-05 | 3.13E-05 | 2.37E-05 | 2.37E-05 | 1.30E-05 | 1.17E-06 | 1.69E-05 | 1.05E-05 | 1.05E-05 | 5.21E-05 |
| 2624 | 256793.5 | 4085471 | 1.33E-05 | 1.92E-04 | 1.41E-04 | 1.41E-04 | 7.89E-05 | 2.01E-05 | 2.92E-05 | 2.21E-05 | 2.21E-05 | 1.21E-05 | 1.09E-06 | 1.58E-05 | 9.83E-06 | 9.83E-06 | 4.86E-05 |
| 2625 | 256783.5 | 4085449 | 1.24E-06 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.87E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.15E-06 | 9.15E-06 | 4.53E-05 |
| 2626 | 258773.5 | 4085427 | 1.15E-05 | 1.66E-04 | 1.23E-04 | 1.23E-04 | 6.83E-05 | 1.74E-06 | 2.53E-05 | 1.91E-06 | 1.91E-05 | 1.05E-06 | 9.48E-07 | 1.37E-05 | 8.51E-05 | 8.51E-05 | 4.21E-06 |
| 2627 | 256763.6 | 4085406 | 1.07E-05 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 6.37E-05 | 1.63E-06 | 2.36E-05 | 1.78E-05 | 1.78E-05 | 9.81E-05 | 8.84E-07 | 1.28E-05 | 7.94E-05 | 7.94E-05 | 3.93E-06 |
| 2628 | 256753.6 | 4085384 | 1.00E-05 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.96E-05 | 1.52E-05 | 2.21E-05 | 1.67E-05 | 1.67E-05 | 9.18E-06 | 8.27E-07 | 1.20E-05 | 7.43E-05 | 7.43E-05 | 3.68E-06 |
| 2629 | 256743.6 | 4085362 | 9.45E-05 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.62E-05 | 1.43E-06 | 2.08E-05 | 1.57E-05 | 1.57E-05 | 8.65E-06 | 7.79E-07 | 1.13E-05 | 7.00E-05 | 7.00E-05 | 3.46E-06 |
| 2630 | 256733.6 | 4085341 | 8.96E-05 | 1.30E-04 | 9.55E-05 | 9.55E-05 | 5.32E-05 | 1.36E-06 | 1.97E-06 | 1.49E-05 | 1.49E-05 | 8.20E-06 | 7.38E-07 | 1.07E-05 | 6.63E-05 | 6.63E-06 | 3.28E-05 |
| 2631 | 256723.7 | 4085319 | 8.54E-05 | 1.24E-04 | 9.10E-05 | 9.10E-05 | 5.07E-05 | 1.30E-05 | 1.88E-05 | 1.42E-05 | 1.42E-05 | 7.81E-06 | 7.04E-07 | 1.02E-05 | 6.32E-05 | 6.32E-06 | 3.13E-05 |
| 2632 | 256713.7 | 4085297 | 8.19E-05 | 1.18E-04 | 8.73E-05 | 8.73E-05 | 4.87E-05 | 1.24E-05 | 1.80E-05 | 1.36E-05 | 1.36E-05 | 7.49E-05 | 6.75E-07 | 9.76E-06 | 6.06E-05 | 6.06E-06 | 3.00E-05 |
| 2633 | 256703.7 | 4085276 | 7.88E-05 | 1.14E-04 | 8.40E-05 | 8.40E-05 | 4.69E-05 | 1.20E-05 | 1.74E-05 | 1.31E-05 | 1.31E-05 | 7.21E-06 | 6.50E-07 | 9.40E-06 | 5.84E-05 | 5.84E-05 | 2.89E-05 |
| 2634 | 256693.7 | 4085254 | 7.61E-05 | 1.10E-04 | 8.12E-05 | 8.12E-05 | 4.53E-05 | 1.16E-06 | 1.68E-05 | 1.27E-05 | 1.27E-05 | 6.97E-06 | 6.28E-07 | 9.08E-06 | 5.64E-06 | 5.64E-06 | 2.79E-05 |
| 2635 | 256683.7 | 4085232 | 7.38E-05 | 1.07E-04 | 7.86E-05 | 7.86E-05 | 4.38E-05 | 1.12E-06 | 1.63E-05 | 1.23E-05 | 1.23E-05 | 6.75E-06 | 6.08E-07 | 8.79E-05 | 5.46E-05 | 5.46E-06 | 2.70E-05 |
| 2636 | 256673.8 | 4085211 | 7.17E-05 | 1.04E-04 | 7.64E-05 | 7.64E-05 | 4.26E-05 | 1.09E-05 | 1.58E-05 | 1.19E-05 | 1.19E-05 | 6.56E-05 | 5.91E-07 | 8.55E-05 | 5.31E-05 | 5.31E-05 | 2.63E-05 |
| 2637 | 257603 | 4086055 | 1.60E-05 | 2.32E-04 | 1.71E-04 | 1.71E-04 | 9.53E-05 | 2.43E-05 | 3.53E-05 | 2.67E-05 | 2.67E-05 | 1.47E-05 | 1.32E-06 | 1.91E-05 | 1.19E-05 | 1.19E-05 | 5.88E-05 |
| 2638 | 257627.3 | 4086054 | 1.59E-05 | 2.31E-04 | 1.70E-04 | 1.70E-04 | 9.47E-05 | 2.42E-05 | 3.51E-05 | 2.65E-05 | 2.65E-05 | 1.46E-05 | 1.31E-05 | 1.90E-05 | 1.18E-05 | 1.18E-05 | 5.84E-05 |
| 2639 | 257651.6 | 4086053 | 1.58E-05 | 2.29E-04 | 1.69E-04 | 1.69E-04 | 9.40E-05 | 2.40E-06 | 3.49E-05 | 2.63E-05 | 2.63E-05 | 1.45E-05 | 1.30E-05 | 1.89E-05 | 1.17E-05 | 1.17E-05 | 5.80E-05 |
| 2640 | 257675.8 | 4086051 | 1.57E-05 | 2.27E-04 | 1.67E-04 | 1.67E-04 | 9.32E-05 | 2.38E-06 | 3.45E-05 | 2.61E-05 | 2.61E-05 | 1.43E-05 | 1.29E-06 | 1.87E-05 | 1.16E-05 | 1.16E-05 | 5.75E-06 |
| 2641 | 257700.1 | 4086050 | 1.55E-05 | 2.24E-04 | 1.65E-04 | 1.65E-04 | 9.21E-05 | 2.35E-05 | 3.42E-05 | 2.58E-05 | 2.58E-05 | 1.42E-05 | 1.28E-06 | 1.85E-05 | 1.15E-05 | 1.15E-05 | 5.68E-05 |
| 2642 | 257724.4 | 4086049 | 1.53E-06 | 2.21E-04 | 1.63E-04 | 1.63E-04 | 9.09E-05 | 2.32E-05 | 3.37E-05 | 2.55E-05 | 2.55E-05 | 1.40E-05 | 1.26E-05 | 1.82E-05 | 1.13E-05 | 1.13E-05 | 5.61E-05 |
| 2643 | 257748.7 | 4086048 | 1.51E-05 | 2.18E-04 | 1.61E-04 | 1.61E-04 | 8.95E-05 | 2.29E-05 | 3.32E-05 | 2.51E-05 | 2.51E-05 | 1.38E-05 | 1.24E-06 | 1.80E-05 | 1.12E-05 | 1.12E-05 | 5.52E-05 |
| 2644 | 257773 | 4086047 | 1.48E-05 | 2.14E-04 | 1.58E-04 | 1.58E-04 | 8.80E-05 | 2.25E-05 | 3.26E-05 | 2.46E-05 | 2.46E-05 | 1.35E-05 | 1.22E-06 | 1.76E-05 | 1.10E-05 | 1.10E-05 | 5.42E-05 |
| 2645 | 257797.2 | 4086046 | 1.45E-05 | 2.10E-04 | 1.55E-04 | 1.55E-04 | 8.62E-05 | 2.20E-05 | 3.20E-05 | 2.42E-05 | 2.42E-05 | 1.33E-05 | 1.20E-06 | 1.73E-05 | 1.07E-05 | 1.07E-05 | 5.32E-06 |
| 2646 | 257821.5 | 4086045 | 1.42E-05 | 2.05E-04 | 1.51E-04 | 1.51E-04 | 8.44E-05 | 2.16E-05 | 3.13E-05 | 2.36E-05 | 2.36E-05 | 1.30E-05 | 1.17E-05 | 1.69E-05 | 1.05E-05 | 1.05E-05 | 5.21E-06 |
| 2647 | 257845.8 | 4086044 | 1.39E-05 | 2.01E-04 | 1.48E-04 | 1.48E-04 | 8.25E-05 | 2.11E-05 | 3.06E-05 | 2.31E-05 | 2.31E-05 | 1.27E-05 | 1.14E-05 | 1.66E-05 | 1.03E-05 | 1.03E-05 | 5.09E-06 |
| 2648 | 257870.1 | 4086043 | 1.36E-05 | 1.96E-04 | 1.45E-04 | 1.45E-04 | 8.06E-05 | 2.06E-05 | 2.99E-05 | 2.26E-05 | 2.26E-05 | 1.24E-05 | 1.12E-05 | 1.62E-05 | 1.00E-05 | 1.00E-05 | 4.97E-06 |
| 2649 | 257894.4 | 4086042 | 1.33E-05 | 1.92E-04 | 1.41E-04 | 1.41E-04 | 7.88E-05 | 2.01E-06 | 2.92E-05 | 2.21E-05 | 2.21E-05 | 1.21E-05 | 1.09E-05 | 1.58E-05 | 9.82E-05 | 9.82E-05 | 4.86E-06 |
| 2650 | 257918.7 | 4086041 | 1.30E-05 | 1.88E-04 | 1.38E-04 | 1.38E-04 | 7.71E-05 | 1.97E-05 | 2.86E-05 | 2.16E-05 | 2.16E-06 | 1.19E-05 | 1.07E-05 | 1.55E-05 | 9.60E-06 | 9.60E-06 | 4.75E-06 |
| 2651 | 257942.9 | 4086040 | 1.27E-05 | 1.84E-04 | 1.35E-04 | 1.35E-04 | 7.55E-05 | 1.93E-05 | 2.80E-05 | 2.11E-05 | 2.11E-05 | 1.16E-05 | 1.05E-05 | 1.51E-05 | 9.41E-06 | 9.41E-06 | 4.66E-06 |
| 2652 | 257967.2 | 4086039 | 1.25E-05 | 1.80E-04 | 1.33E-04 | 1.33E-04 | 7.40E-05 | 1.89E-05 | 2.74E-05 | 2.07E-05 | 2.07E-05 | 1.14E-05 | 1.03E-05 | 1.48E-05 | 9.22E-05 | 9.22E-06 | 4.57E-06 |
| 2653 | 257991.5 | 4086038 | 1.22E-05 | 1.77E-04 | 1.30E-04 | 1.30E-04 | 7.27E-05 | 1.86E-05 | 2.69E-05 | 2.04E-05 | 2.04E-05 | 1.12E-05 | 1.01E-05 | 1.46E-05 | 9.06E-05 | 9.06E-06 | 4.48E-06 |
| 2654 | 258015.8 | 4086036 | 1.20E-05 | 1.74E-04 | 1.28E-04 | 1.28E-04 | 7.14E-05 | 1.82E-05 | 2.65E-05 | 2.00E-05 | 2.00E-05 | 1.10E-05 | 9.90E-07 | 1.43E-05 | 8.90E-06 | 8.90E-05 | 4.40E-06 |
| 2655 | 258040.1 | 4086035 | 1.18E-05 | 1.71E-04 | 1.26E-04 | 1.26E-04 | 7.01E-05 | 1.79E-05 | 2.60E-05 | 1.96E-05 | 1.96E-05 | 1.08E-05 | 9.73E-07 | 1.41E-05 | 8.74E-06 | 8.74E-06 | 4.33E-05 |
| 2656 | 258064.3 | 4086034 | 1.16E-06 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.89E-05 | 1.76E-05 | 2.55E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.55E-07 | 1.38E-05 | 8.58E-06 | 8.58E-05 | 4.25E-05 |
| 2657 | 258088.6 | 4086033 | 1.14E-05 | 1.64E-04 | 1.21E-04 | 1.21E-04 | 6.75E-05 | 1.72E-06 | 2.50E-05 | 1.89E-05 | 1.89E-05 | 1.04E-05 | 9.36E-07 | 1.35E-05 | 8.41E-05 | 8.41E-05 | 4.16E-06 |
| 2658 | 258112.9 | 4086032 | 1.11E-05 | 1.61E-04 | 1.18E-04 | 1.18E-04 | 6.60E-05 | 1.69E-06 | 2.45E-06 | 1.85E-05 | 1.85E-06 | 1.02E-05 | 9.16E-07 | 1.32E-05 | 8.23E-06 | 8.23E-06 | 4.07E-06 |
| 2659 | 258137.2 | 4086031 | 1.09E-05 | 1.57E-04 | 1.15E-04 | 1.15E-04 | 6.45E-05 | 1.65E-05 | 2.39E-05 | 1.81E-05 | 1.81E-05 | 9.93E-06 | 8.95E-07 | 1.29E-05 | 8.04E-06 | 8.04E-06 | 3.98E-05 |
| 2660 | 258161.5 | 4086030 | 1.06E-05 | 1.53E-04 | 1.13E-04 | 1.13E-04 | 6.29E-05 | 1.61E-06 | 2.33E-05 | 1.76E-05 | 1.76E-05 | 9.68E-05 | 8.72E-07 | 1.26E-05 | 7.83E-05 | 7.83E-05 | 3.88E-05 |
| 2661 | 258185.8 | 4086029 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.12E-05 | 1.56E-06 | 2.27E-05 | 1.71E-05 | 1.71E-05 | 9.42E-05 | 8.49E-07 | 1.23E-05 | 7.62E-05 | 7.62E-05 | 3.77E-06 |
| 2662 | 258210 | 4086028 | 1.00E-05 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.95E-05 | 1.52E-05 | 2.21E-05 | 1.67E-05 | 1.67E-05 | 9.16E-06 | 8.25E-07 | 1.19E-05 | 7.41E-05 | 7.41E-05 | 3.67E-06 |
| 2663 | 258234.3 | 4086027 | 9.73E-06 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.78E-05 | 1.48E-05 | 2.14E-05 | 1.62E-05 | 1.62E-05 | 8.90E-05 | 8.02E-07 | 1.16E-05 | 7.20E-05 | 7.20E-05 | 3.56E-06 |
| 2664 | 258258.6 | 4086026 | 9.44E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.61E-05 | 1.43E-05 | 2.08E-05 | 1.57E-05 | 1.57E-05 | 8.64E-05 | 7.78E-07 | 1.13E-05 | 6.99E-05 | 6.99E-05 | 3.46E-06 |
| 2665 | 258282.9 | 4086025 | 9.17E-06 | 1.33E-04 | 9.77E-05 | 9.77E-05 | 5.45E-05 | 1.39E-05 | 2.02E-05 | 1.53E-05 | 1.53E-05 | 8.39E-05 | 7.56E-07 | 1.09E-05 | 6.79E-06 | 6.79E-06 | 3.36E-06 |
| 2666 | 258307.2 | 4086024 | 8.90E-05 | 1.29E-04 | 9.48E-05 | 9.48E-05 | 5.29E-05 | 1.35E-05 | 1.96E-05 | 1.48E-05 | 1.48E-05 | 8.14E-06 | 7.33E-07 | 1.06E-05 | 6.59E-06 | 6.59E-06 | 3.26E-06 |
| 2667 | 258331.4 | 4086022 | 8.63E-06 | 1.25E-04 | 9.20E-05 | 9.20E-05 | 5.13E-05 | 1.31E-05 | 1.90E-05 | 1.44E-05 | 1.44E-06 | 7.89E-06 | 7.11E-07 | 1.03E-05 | 6.39E-06 | 6.39E-06 | 3.16E-06 |
| 2668 | 258355.7 | 4086021 | 8.36E-06 | 1.21E-04 | 8.92E-05 | 8.92E-05 | 4.97E-05 | 1.27E-05 | 1.84E-05 | 1.39E-05 | 1.39E-05 | 7.65E-06 | 6.89E-07 | 9.97E-06 | 6.19E-06 | 6.19E-06 | 3.07E-06 |
| 2669 | 258380 | 4086020 | 8.11E-06 | 1.17E-04 | 8.64E-05 | 8.64E-05 | 4.82E-05 | 1.23E-05 | 1.79E-05 | 1.35E-05 | 1.35E-05 | 7.42E-05 | 6.68E-07 | 9.67E-06 | 6.00E-05 | 6.00E-05 | 2.97E-06 |
| 2670 | 258404.3 | 4086019 | 7.86E-06 | 1.14E-04 | 8.38E-05 | 8.38E-05 | 4.67E-05 | 1.19E-06 | 1.73E-05 | 1.31E-05 | 1.31E-05 | 7.19E-05 | 6.48E-07 | 9.37E-05 | 5.82E-05 | 5.82E-05 | 2.88E-05 |
| 2671 | 257589.1 | 4086246 | 1.20E-05 | 1.73E-04 | 1.28E-04 | 1.28E-04 | 7.11E-05 | 1.82E-06 | 2.64E-05 | 1.99E-05 | 1.99E-05 | 1.10E-05 | 9.87E-07 | 1.43E-05 | 8.86E-05 | 8.86E-05 | 4.39E-06 |
| 2672 | 257566.5 | 4086238 | 1.22E-05 | 1.77E-04 | 1.30E-04 | 1.30E-04 | 7.26E-05 | 1.85E-06 | 2.69E-05 | 2.03E-05 | 2.03E-05 | 1.12E-05 | 1.01E-05 | 1.46E-05 | 9.05E-05 | 9.05E-06 | 4.48E-06 |
| 2673 | 257543.8 | 4086230 | 1.25E-05 | 1.80E-04 | 1.33E-04 | 1.33E-04 | 7.40E-05 | 1.89E-05 | 2.74E-05 | 2.07E-05 | 2.07E-05 | 1.14E-05 | 1.03E-06 | 1.48E-05 | 9.22E-06 | 9.22E-06 | 4.57E-06 |
| 2674 | 257521.1 | 4086221 | 1.27E-05 | 1.83E-04 | 1.35E-04 | 1.35E-04 | 7.54E-05 | 1.92E-05 | 2.79E-05 | 2.11

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2469 | 257589.7 | 4085755 | 2.98E-05 | 4.31E-04 | 3.17E-04 | 3.17E-04 | 1.77E-04 | | 4.52E-06 | 6.56E-05 | 4.96E-05 | 4.96E-05 | 2.72E-05 | | 2.45E-06 | 3.55E-05 | 2.21E-05 | 2.21E-05 | 1.09E-05 | | | | | | | | |
| 2470 | 257614 | 4085754 | 2.98E-05 | 4.31E-04 | 3.18E-04 | 3.18E-04 | 1.77E-04 | | 4.52E-06 | 6.57E-05 | 4.96E-05 | 4.96E-05 | 2.73E-05 | | 2.46E-06 | 3.55E-05 | 2.21E-05 | 2.21E-05 | 1.09E-05 | | | | | | | | |
| 2471 | 257638.3 | 4085753 | 2.98E-05 | 4.31E-04 | 3.18E-04 | 3.18E-04 | 1.77E-04 | | 4.52E-06 | 6.57E-05 | 4.96E-05 | 4.96E-05 | 2.73E-05 | | 2.46E-06 | 3.55E-05 | 2.21E-05 | 2.21E-05 | 1.09E-05 | | | | | | | | |
| 2472 | 257662.6 | 4085752 | 2.97E-05 | 4.30E-04 | 3.17E-04 | 3.17E-04 | 1.77E-04 | | 4.51E-06 | 6.55E-05 | 4.95E-05 | 4.95E-05 | 2.72E-05 | | 2.45E-06 | 3.55E-05 | 2.20E-05 | 2.20E-05 | 1.09E-05 | | | | | | | | |
| 2473 | 257686.8 | 4085751 | 2.96E-05 | 4.28E-04 | 3.16E-04 | 3.16E-04 | 1.76E-04 | | 4.50E-06 | 6.53E-05 | 4.93E-05 | 4.93E-05 | 2.71E-05 | | 2.44E-06 | 3.53E-05 | 2.19E-05 | 2.19E-05 | 1.09E-05 | | | | | | | | |
| 2474 | 257711.1 | 4085750 | 2.94E-05 | 4.26E-04 | 3.14E-04 | 3.14E-04 | 1.75E-04 | | 4.47E-06 | 6.49E-05 | 4.90E-05 | 4.90E-05 | 2.69E-05 | | 2.43E-06 | 3.51E-05 | 2.18E-05 | 2.18E-05 | 1.08E-05 | | | | | | | | |
| 2475 | 257735.4 | 4085749 | 2.92E-05 | 4.22E-04 | 3.11E-04 | 3.11E-04 | 1.74E-04 | | 4.43E-06 | 6.43E-05 | 4.86E-05 | 4.86E-05 | 2.67E-05 | | 2.41E-05 | 3.48E-05 | 2.16E-05 | 2.16E-05 | 1.07E-05 | | | | | | | | |
| 2476 | 257759.7 | 4085747 | 2.89E-05 | 4.18E-04 | 3.08E-04 | 3.08E-04 | 1.72E-04 | | 4.39E-06 | 6.37E-05 | 4.81E-05 | 4.81E-05 | 2.65E-05 | | 2.38E-05 | 3.45E-05 | 2.14E-05 | 2.14E-05 | 1.06E-05 | | | | | | | | |
| 2477 | 257784 | 4085746 | 2.86E-05 | 4.13E-04 | 3.05E-04 | 3.05E-04 | 1.70E-04 | | 4.34E-06 | 6.29E-06 | 4.75E-05 | 4.75E-05 | 2.61E-05 | | 2.35E-05 | 3.41E-05 | 2.12E-05 | 2.12E-05 | 1.05E-05 | | | | | | | | |
| 2478 | 257808.2 | 4085745 | 2.81E-05 | 4.07E-04 | 3.00E-04 | 3.00E-04 | 1.67E-04 | | 4.27E-06 | 6.20E-06 | 4.68E-05 | 4.68E-05 | 2.57E-05 | | 2.32E-06 | 3.35E-05 | 2.08E-05 | 2.08E-05 | 1.03E-05 | | | | | | | | |
| 2479 | 257832.5 | 4085744 | 2.76E-05 | 3.99E-04 | 2.94E-04 | 2.94E-04 | 1.64E-04 | | 4.19E-06 | 6.09E-06 | 4.60E-05 | 4.60E-05 | 2.53E-05 | | 2.28E-06 | 3.29E-05 | 2.05E-05 | 2.05E-05 | 1.01E-05 | | | | | | | | |
| 2480 | 257856.8 | 4085743 | 2.72E-05 | 3.93E-04 | 2.90E-04 | 2.90E-04 | 1.61E-04 | | 4.12E-06 | 5.98E-05 | 4.52E-05 | 4.52E-05 | 2.49E-05 | | 2.24E-06 | 3.24E-05 | 2.01E-05 | 2.01E-05 | 9.96E-06 | | | | | | | | |
| 2481 | 257881.1 | 4085742 | 2.67E-05 | 3.86E-04 | 2.85E-04 | 2.85E-04 | 1.59E-04 | | 4.05E-06 | 5.88E-05 | 4.44E-05 | 4.44E-05 | 2.44E-05 | | 2.20E-05 | 3.18E-05 | 1.98E-05 | 1.98E-05 | 9.78E-06 | | | | | | | | |
| 2482 | 257905.4 | 4085741 | 2.62E-05 | 3.79E-04 | 2.79E-04 | 2.79E-04 | 1.56E-04 | | 3.97E-06 | 5.77E-06 | 4.36E-05 | 4.36E-05 | 2.40E-05 | | 2.16E-06 | 3.12E-05 | 1.94E-05 | 1.94E-06 | 9.60E-06 | | | | | | | | |
| 2483 | 257929.7 | 4085740 | 2.56E-05 | 3.70E-04 | 2.73E-04 | 2.73E-04 | 1.52E-04 | | 3.89E-06 | 5.64E-06 | 4.26E-06 | 4.26E-05 | 2.34E-05 | | 2.11E-06 | 3.05E-06 | 1.90E-05 | 1.90E-05 | 9.39E-06 | | | | | | | | |
| 2484 | 257953.9 | 4085739 | 2.50E-05 | 3.62E-04 | 2.66E-04 | 2.66E-04 | 1.49E-04 | | 3.79E-06 | 5.51E-06 | 4.16E-05 | 4.16E-05 | 2.29E-05 | | 2.06E-06 | 2.98E-06 | 1.85E-05 | 1.85E-06 | 9.16E-06 | | | | | | | | |
| 2485 | 257978.2 | 4085738 | 2.43E-05 | 3.52E-04 | 2.59E-04 | 2.59E-04 | 1.45E-04 | | 3.69E-06 | 5.36E-06 | 4.05E-06 | 4.05E-05 | 2.23E-05 | | 2.01E-06 | 2.90E-05 | 1.80E-05 | 1.80E-05 | 8.92E-06 | | | | | | | | |
| 2486 | 258002.5 | 4085737 | 2.36E-05 | 3.42E-04 | 2.52E-04 | 2.52E-04 | 1.40E-04 | | 3.59E-06 | 5.21E-05 | 3.93E-05 | 3.93E-05 | 2.16E-05 | | 1.95E-06 | 2.82E-05 | 1.75E-05 | 1.75E-05 | 8.66E-06 | | | | | | | | |
| 2487 | 258026.8 | 4085736 | 2.29E-05 | 3.32E-04 | 2.44E-04 | 2.44E-04 | 1.36E-04 | | 3.48E-06 | 5.05E-05 | 3.82E-05 | 3.82E-05 | 2.10E-05 | | 1.89E-06 | 2.73E-05 | 1.70E-05 | 1.70E-05 | 8.40E-06 | | | | | | | | |
| 2488 | 258051.1 | 4085735 | 2.22E-05 | 3.21E-04 | 2.37E-04 | 2.37E-04 | 1.32E-04 | | 3.37E-06 | 4.89E-05 | 3.70E-05 | 3.70E-05 | 2.03E-05 | | 1.83E-06 | 2.65E-05 | 1.65E-05 | 1.65E-05 | 8.14E-06 | | | | | | | | |
| 2489 | 258075.3 | 4085734 | 2.15E-05 | 3.11E-04 | 2.29E-04 | 2.29E-04 | 1.28E-04 | | 3.27E-06 | 4.74E-05 | 3.58E-05 | 3.58E-05 | 1.97E-05 | | 1.77E-05 | 2.57E-05 | 1.59E-05 | 1.59E-05 | 7.89E-05 | | | | | | | | |
| 2490 | 258099.6 | 4085732 | 2.09E-05 | 3.02E-04 | 2.22E-04 | 2.22E-04 | 1.24E-04 | | 3.17E-06 | 4.60E-05 | 3.47E-05 | 3.47E-05 | 1.91E-05 | | 1.72E-05 | 2.49E-05 | 1.54E-05 | 1.54E-05 | 7.65E-05 | | | | | | | | |
| 2491 | 258123.9 | 4085731 | 2.02E-05 | 2.92E-04 | 2.15E-04 | 2.15E-04 | 1.20E-04 | | 3.07E-06 | 4.45E-05 | 3.36E-05 | 3.36E-05 | 1.85E-05 | | 1.67E-06 | 2.41E-05 | 1.50E-05 | 1.50E-05 | 7.41E-06 | | | | | | | | |
| 2492 | 258148.2 | 4085730 | 1.96E-05 | 2.83E-04 | 2.08E-04 | 2.08E-04 | 1.16E-04 | | 2.97E-06 | 4.31E-05 | 3.25E-05 | 3.25E-05 | 1.79E-05 | | 1.61E-06 | 2.33E-05 | 1.45E-05 | 1.45E-05 | 7.17E-06 | | | | | | | | |
| 2493 | 258172.5 | 4085729 | 1.89E-05 | 2.73E-04 | 2.01E-04 | 2.01E-04 | 1.12E-04 | | 2.87E-06 | 4.16E-05 | 3.14E-05 | 3.14E-05 | 1.73E-05 | | 1.56E-06 | 2.25E-05 | 1.40E-05 | 1.40E-05 | 6.92E-06 | | | | | | | | |
| 2494 | 258196.8 | 4085728 | 1.82E-05 | 2.63E-04 | 1.94E-04 | 1.94E-04 | 1.08E-04 | | 2.76E-06 | 4.01E-05 | 3.03E-05 | 3.03E-05 | 1.67E-05 | | 1.50E-06 | 2.17E-05 | 1.35E-05 | 1.35E-05 | 6.67E-05 | | | | | | | | |
| 2495 | 258221 | 4085727 | 1.75E-05 | 2.53E-04 | 1.87E-04 | 1.87E-04 | 1.04E-04 | | 2.66E-06 | 3.86E-06 | 2.92E-05 | 2.92E-05 | 1.60E-05 | | 1.44E-06 | 2.09E-05 | 1.30E-06 | 1.30E-06 | 6.42E-06 | | | | | | | | |
| 2496 | 258245.3 | 4085726 | 1.68E-06 | 2.43E-04 | 1.79E-04 | 1.79E-04 | 9.99E-05 | | 2.55E-06 | 3.71E-06 | 2.80E-05 | 2.80E-06 | 1.54E-05 | | 1.39E-06 | 2.00E-05 | 1.25E-06 | 1.25E-06 | 6.16E-06 | | | | | | | | |
| 2497 | 258269.6 | 4085725 | 1.61E-06 | 2.33E-04 | 1.72E-04 | 1.72E-04 | 9.58E-05 | | 2.45E-06 | 3.55E-06 | 2.68E-05 | 2.68E-05 | 1.48E-05 | | 1.33E-06 | 1.92E-05 | 1.19E-05 | 1.19E-05 | 5.91E-06 | | | | | | | | |
| 2498 | 258293.9 | 4085724 | 1.54E-05 | 2.23E-04 | 1.65E-04 | 1.65E-04 | 9.18E-05 | | 2.34E-06 | 3.40E-05 | 2.57E-05 | 2.57E-05 | 1.41E-05 | | 1.27E-05 | 1.84E-05 | 1.14E-05 | 1.14E-05 | 5.66E-05 | | | | | | | | |
| 2499 | 258318.2 | 4085723 | 1.48E-05 | 2.14E-04 | 1.57E-04 | 1.57E-04 | 8.78E-05 | | 2.24E-06 | 3.25E-05 | 2.46E-05 | 2.46E-05 | 1.35E-05 | | 1.22E-06 | 1.76E-05 | 1.09E-05 | 1.09E-05 | 5.41E-06 | | | | | | | | |
| 2500 | 258342.4 | 4085722 | 1.41E-05 | 2.04E-04 | 1.50E-04 | 1.50E-04 | 8.39E-05 | | 2.14E-06 | 3.11E-05 | 2.35E-05 | 2.35E-05 | 1.29E-05 | | 1.16E-06 | 1.68E-05 | 1.05E-05 | 1.05E-05 | 5.17E-05 | | | | | | | | |
| 2501 | 258366.7 | 4085721 | 1.35E-05 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.01E-05 | | 2.05E-06 | 2.97E-05 | 2.24E-05 | 2.24E-05 | 1.23E-05 | | 1.11E-05 | 1.61E-05 | 9.99E-06 | 9.99E-05 | 4.94E-05 | | | | | | | | |
| 2502 | 258391 | 4085720 | 1.29E-06 | 1.86E-04 | 1.37E-04 | 1.37E-04 | 7.66E-05 | | 1.96E-06 | 2.84E-05 | 2.14E-05 | 2.14E-05 | 1.18E-06 | | 1.06E-06 | 1.54E-05 | 9.54E-05 | 9.54E-05 | 4.72E-05 | | | | | | | | |
| 2503 | 257572.2 | 4085847 | 2.41E-05 | 3.48E-04 | 2.57E-04 | 2.57E-04 | 1.43E-04 | | 3.65E-06 | 5.30E-06 | 4.01E-05 | 4.01E-05 | 2.20E-05 | | 1.98E-05 | 2.87E-05 | 1.78E-05 | 1.78E-06 | 8.82E-06 | | | | | | | | |
| 2504 | 257550.2 | 4085839 | 2.45E-05 | 3.54E-04 | 2.61E-04 | 2.61E-04 | 1.46E-04 | | 3.72E-06 | 5.40E-05 | 4.08E-05 | 4.08E-06 | 2.24E-05 | | 2.02E-05 | 2.92E-05 | 1.81E-05 | 1.81E-05 | 8.98E-05 | | | | | | | | |
| 2505 | 257528.2 | 4085831 | 2.49E-06 | 3.60E-04 | 2.66E-04 | 2.66E-04 | 1.48E-04 | | 3.78E-06 | 5.49E-05 | 4.15E-05 | 4.15E-05 | 2.28E-05 | | 2.05E-06 | 2.97E-05 | 1.85E-05 | 1.85E-05 | 9.13E-06 | | | | | | | | |
| 2506 | 257506.2 | 4085823 | 2.53E-06 | 3.66E-04 | 2.70E-04 | 2.70E-04 | 1.50E-04 | | 3.84E-06 | 5.58E-05 | 4.21E-05 | 4.21E-06 | 2.32E-05 | | 2.09E-06 | 3.02E-05 | 1.88E-05 | 1.88E-05 | 9.28E-05 | | | | | | | | |
| 2507 | 257484.3 | 4085815 | 2.57E-06 | 3.72E-04 | 2.74E-04 | 2.74E-04 | 1.53E-04 | | 3.90E-06 | 5.66E-05 | 4.28E-05 | 4.28E-05 | 2.35E-05 | | 2.12E-05 | 3.06E-05 | 1.90E-05 | 1.90E-05 | 9.42E-06 | | | | | | | | |
| 2508 | 257462.3 | 4085807 | 2.61E-06 | 3.77E-04 | 2.78E-04 | 2.78E-04 | 1.55E-04 | | 3.96E-06 | 5.74E-05 | 4.34E-05 | 4.34E-05 | 2.39E-05 | | 2.15E-05 | 3.11E-05 | 1.93E-05 | 1.93E-06 | 9.56E-06 | | | | | | | | |
| 2509 | 257440.3 | 4085799 | 2.64E-05 | 3.82E-04 | 2.82E-04 | 2.82E-04 | 1.57E-04 | | 4.01E-06 | 5.82E-05 | 4.40E-05 | 4.40E-05 | 2.42E-05 | | 2.18E-06 | 3.15E-06 | 1.96E-05 | 1.96E-05 | 9.68E-06 | | | | | | | | |
| 2510 | 257418.3 | 4085791 | 2.67E-05 | 3.87E-04 | 2.85E-04 | 2.85E-04 | 1.59E-04 | | 4.06E-06 | 5.89E-06 | 4.45E-05 | 4.45E-06 | 2.45E-05 | | 2.20E-06 | 3.19E-06 | 1.98E-05 | 1.98E-05 | 9.80E-06 | | | | | | | | |
| 2511 | 257396.4 | 4085783 | 2.70E-05 | 3.91E-04 | 2.88E-04 | 2.88E-04 | 1.61E-04 | | 4.10E-06 | 5.95E-05 | 4.50E-05 | 4.50E-05 | 2.47E-05 | | 2.23E-06 | 3.22E-05 | 2.00E-05 | 2.00E-05 | 9.90E-06 | | | | | | | | |
| 2512 | 257374.4 | 4085775 | 2.73E-05 | 3.95E-04 | 2.91E-04 | 2.91E-04 | 1.62E-04 | | 4.14E-06 | 6.01E-05 | 4.54E-05 | 4.54E-05 | 2.50E-05 | | 2.25E-05 | 3.25E-05 | 2.02E-05 | 2.02E-05 | 1.00E-05 | | | | | | | | |
| 2513 | 257352.4 | 4085767 | 2.75E-05 | 3.98E-04 | 2.94E-04 | 2.94E-04 | 1.64E-04 | | 4.18E-06 | 6.07E-05 | 4.59E-05 | 4.59E-05 | 2.52E-05 | | 2.27E-05 | 3.28E-05 | 2.04E-05 | 2.04E-05 | 1.01E-05 | | | | | | | | |
| 2514 | 257330.4 | 4085759 | 2.78E-05 | 4.02E-04 | 2.96E-04 | 2.96E-04 | 1.65E-04 | | 4.21E-06 | 6.12E-05 | 4.62E-05 | 4.62E-05 | 2.54E-05 | | 2.29E-06 | 3.31E-05 | 2.06E-05 | 2.06E-05 | 1.02E-05 | | | | | | | | |
| 2515 | 257308.5 | 4085751 | 2.79E-06 | 4.04E-04 | 2.98E-04 | 2.98E-04 | 1.66E-04 | | 4.24E-06 | 6.15E-05 | 4.65E-05 | 4.65E-06 | 2.55E-05 | | 2.30E-06 | 3.33E-05 | 2.07E-05 | 2.07E-05 | 1.02E-05 | | | | | | | | |
| 2516 | 257286.5 | 4085743 | 2.80E-05 | 4.05E-04 | 2.98E-04 | 2.98E-04 | 1.66E-04 | | 4.25E-06 | 6.17E-06 | 4.66E-05 | 4.66E-05 | 2.56E-05 | | 2.31E-06 | 3.34E-05 | 2.07E-06 | 2.07E-06 | 1.03E-05 | | | | | | | | |
| 2517 | 257264.5 | 4085735 | 2.80E-05 | 4.04E-04 | 2.98E-04 | 2.98E-04 | 1.66E-04 | | 4.24E-06 | 6.16E-05 | 4.65E-05 | 4.65E-05 | 2.56E-05 | | 2.31E-06 | 3.33E-05 | 2.07E-05 | 2.07E-05 | 1.03E-05 | | | | | | | | |
| 2518 | 257242.5 | 4085726 | 2.78E-05 | 4.03E-04 | 2.97E-04 | 2.97E-04 | 1.65E-04 | | 4.23E-05 | 6.14E-05 | 4.63E-05 | 4.63E-05 | 2.55E-05 | | 2.30E-06 | 3.32E-05 | 2.06E-05 | 2.06E-05 | 1.02E-05 | | | | | | | | |
| 2519 | 257220.6 | 4085718 | 2.77E-05 | 4.00E-04 | 2.95E-04 | 2.95E-04 | 1.65E-04 | | 4.20E-05 | 6.10E-05 | 4.61E-05 | 4.61E-05 | 2.53E-05 | | 2.28E-06 | 3.30E-05 | 2.05E-05 | 2.05E-05 | 1.01E-05 | | | | | | | | |
| 2520 | 257198.6 | 4085710 | 2.74E-06 | 3.97E-04 | 2.93E-04 | 2.93E-04 | 1.63E-04 | | 4.17E-05 | 6.05E-05 | 4.57E-05 | 4.57E-05 | 2.51E-05 | | 2.26E-05 | 3.27E-06 | 2.03E-05 | 2.03E-05 | 1.01E-05 | | | | | | | | |
| 2521 | 257176.6 | 4085702 | 2.71E-06 | 3.92E-04 | 2.89E-04 | 2.89E-04 | 1.61E-04 | | 4.12E-05 | 5.98E-05 | 4.52E-06 | 4.52E-06 | 2.48E-05 | | 2.24E-06 | 3.23E-05 | 2.01E-05 | 2.01E-05 | 9.95E-06 | | | | | | | | |
| 2522 | 257254.6 | 4085694 | 2.68E-06 | 3.87E-04 | 2.86E-04 | 2.86E-04 | 1.59E-04 | | 4.07E-05 | 5.90E-05 | 4.46E-05 | 4.46E-05 | 2.45E-05 | | 2.21E-06 | 3.19E-05 | 1.98E-06 | 1.98E-06 | 9.82E-06 | | | | | | | | |
| 2523 | 257137.7 | 4085686 | 2.54E-05 | 3.82E-04 | 2.82E-04 | 2.82E-04 | 1.57E-04 | | 4.01E-05 | 5.82E-05 | 4.40E-05 | 4.40E-05 | 2.42E-05 | | 2.18E-06 | 3.15E-05 | 1.96E-05 | 1.96E-05 | 9.69E-06 | | | | | | | | |
| 2524 | 257110.7 | 4085678 | 2.60E-05 | 3.77E-04 | 2.78E-04 | 2.78E-04 | 1.55E-04 | | 3.95E-05 | 5.74E-05 | 4.34E-05 | 4.34E-05 | 2.38E-05 | | 2.15E-06 | 3.11E-05 | 1.93E-05 | 1.93E-06 | 9.55E-06 | | | | | | | | |
| 2525 | 257078.9 | 4085649 | 2.59E-05 | 3.75E-04 | 2.76E-04 | 2.76E-04 | 1.54E-04 | | 3.93E-05 | 5.71E-05 | 4.32E-05 | 4.32E-05 | 2.37E-05 | | 2.14E-06 | 3.09E-05 | 1.92E-05 | 1.92E-05 | 9.50E-06 | | | | | | | | |
| 2526 | 257069.1 | 4085628 | 2.61E-05 | 3.78E-04 | 2.78E-04 | 2.78E-04 | 1.55E-04 | | 3.96E-05 | 5.76E-05 | 4.35E-05 | 4.35E-05 | 2.39E-05 | | 2.15E-06 | 3.11E-05 | 1.93E-06 | 1.93E-05 | 9.58E-06 | | | | | | | | |
| 2527 | 257059.4 | 4085607 | 2.62E-05 | 3.79E-04 | 2.79E-04 | 2.79E-04 | 1.56E-04 | | 3.98E-05 | 5.77E-05 | 4.36E-05 | 4.36E-06 | 2.40E-05 | | 2.16E-06 | 3.12E-05 | 1.94E-05 | 1.94E-06 | 9.60E-06 | | | | | | | | |
| 2528 | 257049.6 | 4085585 | 2.61E-06 | 3.78E-04 | 2.79E-04 | 2.79E-04 | 1.55E-04 | | 3.97E-05 | 5.76E-05 | 4.35E-05 | 4.35E-05 | 2.39E-06 | | 2.15E-06 | 3.12E-06 | 1.94E-05 | 1.94E-06 | 9.58E-06 | | | | | | | | |
| 2529 | 257039.8 | 4085564 | 2.59E-06 | 3.75E-04 | 2.76E-04 | 2.76E-04 | 1.54E-04 | | 3.93E-05 | 5.71E-05 | 4.31E-05 | 4.31E-05 | 2.37E-05 | | 2.14E-06 | 3.09E-06 | 1.92E-06 | 1.92E-06 | 9.50E-06 | | | | | | | | |
| 2530 | 257030 | 4085543 | 2.55E-05 | 3.69E-04 | 2.72E-04 | 2.72E-04 | 1.52E-04 | | 3.87E-05 | 5.62E-05 | 4.24E-05 | 4.24E-05 | 2.33E-05 | | 2.10E-06 | 3.04E-05 | 1.89E-05 | 1.89E-05 | 9.35E-06 | | | | | | | | |
| 2531 | 257020.2 | 4085522 | 2.49E-05 | 3.60E-04 | 2.65E-04 | 2.65E-04 | 1.48E-04 | | 3.78E-05 | 5.49E-05 | 4.14E-05 | 4.14E-05 | 2.28E-05 | | 2.05E-06 | 2.97E-05 | 1.84E-05 | 1.84E-05 | 9.13E-05 | | | | | | | | |
| 2532 | 257010.4 | 4085500 | 2.41E-05 | 3.49E-04 | 2.57E-04 | 2.57E-04 | 1.43E-04 | | 3.66E-06 | 5.31E-05 | 4.01E-05 | 4.01E-05 | 2.21E-05 | | 1.99E-05 | 2.87E-05 | 1.79E-05 | 1.79E-05 | 8.84E-05 | | | | | | | | |
| 2533 | 257000.6 | 4085479 | 2.31E-05 | 3.35E-04 | 2.47E-04 | 2.47E-04 | 1.38E-04 | | 3.51E-06 | 5.10E-05 | 3.85E-05 | 3.85E-05 | 2.12E-05 | | 1.91E-06 | 2.76E-05 | 1.71E-05 | 1.71E-05 | 8.48E-05 | | | | | | | | |
| 2534 | 256990.9 | 4085458 | 2.20E-05 | 3.18E-04 | 2.35E-04 | 2.35E-04 | 1.31E-04 | | 3.34E-05 | 4.85E-05 | 3.66E-05 | 3.66E-05 | 2.01E-05 | | 1.81E-06 | 2.62E-05 | 1.63E-05 | 1.63E-05 | 8.06E-06 | | | | | | | | |
| 2535 | 256981.1 | 4085437 | 2.07E-06 | 3.00E-04 | 2.21E-04 | 2.21E-04 | 1.23E-04 | | 3.15E-06 | 4.57E-05 | 3.45E-06 | 3.45E-06 | 1.90E-05 | | 1.71E-06 | 2.47E-06 | 1.54E-05 | 1.54E-06 | 7.60E-06 | | | | | | | | |
| 2536 | 256971.3 | 4085415 | 1.94E-05 | 2.81E-04 | 2.07E-04 | 2.07E-04 | 1.15E-04 | | 2.94E-06 | 4.27E-06 | 3.23E-05 | 3.23E-06 | 1.78E-05 | | 1.60E-06 | 2.31E-05 | 1.44E-05 | 1.44E-06 | 7.11E-06 | | | | | | | | |
| 2537 | 256961.5 | 4085394 | 1.80E-05 | 2.61E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | | 2.74E-05 | 3.97E-05 | 3.00E-05 | 3.00E-05 | 1.65E-05 | | 1.49E-06 | 2.15E-05 | 1.34E-05 | 1.34E-05 | 6.61E-06 | | | | | | | | |
| 2538 | 256951.7 | 4085373 | 1.67E-05 | 2.41E-04 | 1.78E-04 | 1.78E-04 | 9.92E-05 | | 2.53E-06 | 3.68E-05 | 2.78E-05 | 2.78E-05 | 1.53E-05 | | 1.38E-06 | 1.99E-05 | 1.24E-05 | 1.24E-06 | 6.12E-06 | | | | | | | | |
| 2539 | 256941.9 | 4085352 | 1.54E-05 | 2.23E-04 | 1.64E-04 | 1.64E-04 | 9.16E-05 | | 2.34E-05 | 3.40E-05 | 2.57E-05 | 2.57E-05 | 1.41E-05 | | 1.27E-06 | 1.84E-05 | 1.14E-05 | 1.14E-05 | 5.65E-06 | | | | | | | | |
| 2540 | 256932.1 | 4085330 | 1.43E-05 | 2.06E-04 | 1.52E-04 | 1.52E-04 | 8.47E-05 | | 2.16E-06 | 3.14E-05 | 2.37E-05 | 2.37E-05 | 1.30E-05 | | 1.18E-06 | 1.70E-05 | 1.06E-05 | 1.06E-05 | 5.23E-06 | | | | | | | | |
| 2541 | 256922.4 | 4085309 | 1.32E-05 | 1.91E-04 | 1.41E-04 | 1.41E-04 | 7.86E-05 | | 2.01E-05 | 2.91E-05 | 2.20E-05 | 2.20E-06 | 1.21E-05 | | 1.09E-06 | 1.58E-06 | 9.79E-05 | 9.79E-05 | 4.85E-06 | | | | | | | | |
| 2542 | 256912.6 | 4085288 | 1.23E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | | 1.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | | 1.02E-06 | 1.47E-06 | 9.14E-05 | 9.14E-05 | 4.52E-06 | | | | | | | | |
| 2543 | 256902.8 | 4085267 | 1.16E-05 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.89E-05 | | 1.76E-06 | 2.56E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | | 9.58E-07 | 1.38E-05 | 8.59E-05 | 8.59E-05 | 4.25E-05 | | | | | | | | |
| 2544 | 256893 | 4085245 | 1.10E-05 | 1.59E-04 | 1.17E-04 | 1.17E-04 | 6.53E-05 | | 1.67E-06 | 2.42E-05 | 1.83E-05 | 1.83E-05 | 1.00E-05 | | 9.05E-07 | 1.31E-05 | 8.13E-05 | 8.13E-06 | 4.02E-06 | | | | | | | | |
| 2545 | 256883.2 | 4085224 | 1.05E-05 | 1.51E-04 | 1.12E-04 | 1.12E-04 | 6.22E-05 | | 1.59E-06 | 2.31E-05 | 1.74E-05 | 1.74E-05 | 9.57E-06 | | 8.62E-07 | 1.25E-05 | 7.75E-05 | 7.75E-06 | 3.84E-06 | | | | | | | | |
| 2546 | 256873.4 | 4085203 | 1.00E-05 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.96E-05 | | 1.52E-06 | 2.21E-05 | 1.67E-05 | 1.67E-05 | 9.18E-05 | | 8.27E-07 | 1.20E-05 | 7.43E-05 | 7.43E-05 | 3.68E-06 | | | | | | | | |
| 2547 | 257594.1 | 4085855 | 2.36E-05 | 3.42E-04 | 2.52E-04 | 2.52E-04 | 1.40E-04 | | 3.58E-06 | 5.20E-05 | 3.93E-05 | 3.93E-05 | 2.16E-05 | | 1.95E-06 | 2.82E-05 | 1.75E-05 | 1.75E-05 | 8.66E-05 | | | | | | | | |
| 2548 | 257618.4 | 4085854 | 2.36E-05 | 3.41E-04 | 2.51E-04 | 2.51E-04 | 1.40E-04 | | 3.58E-06 | 5.20E-05 | 3.93E-05 | 3.93E-06 | 2.16E-05 | | 1.94E-06 | 2.81E-05 | 1.75E-05 | 1.75E-05 | 8.65E-06 | | | | | | | | |
| 2549 | 257642.7 | 4085853 | 2.35E-06 | 3.40E-04 | 2.51E-04 | 2.51E-04 | 1.40E-04 | | 3.57E-05 | 5.18E-06 | 3.92E-05 | 3.92E-06 | 2.15E-06 | | 1.94E-05 | 2.81E-05 | 1.74E-05 | 1.74E-06 | 8.63E-06 | | | | | | | | |
| 2550 | 257667 | 4085852 | 2.34E-05 | 3.39E-04 | 2.50E-04 | 2.50E-04 | 1.39E-04 | | 3.56E-05 | 5.16E-05 | 3.90E-05 | 3.90E-05 | 2.14E-05 | | 1.93E-06 | 2.79E-05 | 1.74E-05 | 1.74E-05 | 8.59E-05 | | | | | | | | |
| 2551 | 257691.3 | 4085851 | 2.33E-05 | 3.37E-04 | 2.48E-04 | 2.48E-04 | 1.38E-04 | | 3.53E-06 | 5.13E-05 | 3.88E-06 | 3.88E-05 | 2.13E-05 | | 1.92E-06 | 2.78E-05 | 1.72E-05 | 1.72E-06 | 8.54E-06 | | | | | | | | |
| 2552 | 257715.5 | 4085850 | 2.31E-05 | 3.34E-04 | 2.46E-04 | 2.46E-04 | 1.37E-04 | | 3.51E-06 | 5.09E-05 | 3.84E-05 | 3.84E-05 | 2.11E-05 | | 1.90E-06 | 2.75E-05 | 1.71E-05 | 1.71E-05 | 8.47E-06 | | | | | | | | |
| 2553 | 257739.8 | 4085848 | 2.29E-05 | 3.31E-04 | 2.44E-04 | 2.44E-04 | 1.36E-04 | | 3.47E-06 | 5.04E-05 | 3.80E-05 | 3.80E-05 | 2.09E-05 | | 1.88E-06 | 2.72E-05 | 1.69E-05 | 1.69E-05 | 8.38E-06 | | | | | | | | |
| 2554 | 257764.1 | 4085847 | 2.25E-05 | 3.25E-04 | 2.39E-04 | 2.39E-04 | 1.33E-04 | | 3.41E-06 | 4.95E-05 | 3.74E-05 | 3.74E-05 | 2.05E-05 | | 1.85E-06 | 2.68E-06 | 1.66E-05 | 1.66E-05 | 8.23E-06 | | | | | | | | |
| 2555 | 257788.4 | 4085846 | 2.21E-05 | 3.20E-04 | 2.36E-04 | 2.36E-04 | 1.31E-04 | | 3.35E-06 | 4.87E-05 | 3.68E-06 | 3.68E-06 | 2.02E-05 | | 1.82E-06 | 2.64E-05 | 1.64E-05 | 1.64E-06 | 8.10E-06 | | | | | | | | |
| 2556 | 257812.7 | 4085845 | 2.17E-05 | 3.14E-04 | 2.32E-04 | 2.32E-04 | 1.29E-04 | | 3.30E-06 | 4.79E-06 | 3.62E-05 | 3.62E-05 | 1.99E-05 | | 1.79E-06 | 2.59E-05 | 1.61E-06 | 1.61E-05 | 7.97E-06 | | | | | | | | |
| 2557 | 257837 | 4085844 | 2.13E-05 | 3.09E-04 | 2.27E-04 | 2.27E-04 | 1.27E-04 | | 3.24E-05 | 4.70E-06 | 3.55E-05 | 3.55E-06 | 1.95E-05 | | 1.76E-06 | 2.54E-05 | 1.58E-05 | 1.58E-05 | 7.82E-06 | | | | | | | | |
| 2558 | 257861.2 | 4085843 | 2.09E-05 | 3.03E-04 | 2.23E-04 | 2.23E-04 | 1.24E-04 | | 3.17E-05 | 4.61E-05 | 3.48E-05 | 3.48E-05 | 1.91E-05 | | 1.72E-06 | 2.49E-05 | 1.55E-05 | 1.55E-05 | 7.67E-06 | | | | | | | | |
| 2559 | 257885.5 | 4085842 | 2.05E-05 | 2.96E-04 | 2.18E-04 | 2.18E-04 | 1.22E-04 | | 3.11E-05 | 4.51E-05 | 3.41E-05 | 3.41E-05 | 1.87E-05 | | 1.69E-06 | 2.44E-05 | 1.52E-05 | 1.52E-05 | 7.51E-06 | | | | | | | | |
| 2560 | 257909.8 | 4085841 | 2.00E-05 | 2.90E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | | 3.04E-06 | 4.41E-05 | 3.33E-05 | 3.33E-05 | 1.83E-05 | | 1.65E-06 | 2.39E-05 | 1.48E-05 | 1.48E-05 | 7.34E-05 | | | | | | | | |
| 2561 | 257934.1 | 4085840 | 1.96E-05 | 2.83E-04 | 2.08E-04 | 2.08E-04 | 1.16E-04 | | 2.97E-06 | 4.31E-05 | 3.25E-05 | 3.25E-05 | 1.79E-05 | | 1.61E-06 | 2.33E-05 | 1.45E-05 | 1.45E-05 | 7.17E-06 | | | | | | | | |
| 2562 | 257958.4 | 4085839 | 1.91E-05 | 2.76E-04 | 2.03E-04 | 2.03E-04 | 1.13E-04 | | 2.90E-05 | 4.21E-05 | 3.18E-05 | 3.18E-05 | 1.75E-05 | | 1.57E-06 | 2.28E-05 | 1.41E-05 | 1.41E-05 | 7.00E-05 | | | | | | | | |
| 2563 | 257982.6 | 4085838 | 1.86E-05 | 2.69E-04 | 1.98E-04 | 1.98E-04 | 1.11E-04 | | 2.83E-05 | 4.10E-05 | 3.10E-05 | 3.10E-05 | 1.70E-05 | | 1.53E-06 | 2.22E-05 | 1.38E-05 | 1.38E-05 | 6.82E-05 | | | | | | | | |
| 2564 | 258006.9 | 4085837 | 1.82E-05 | 2.63E-04 | 1.94E-04 | 1.94E-04 | 1.08E-04 | | 2.76E-06 | 4.00E-05 | 3.02E-05 | 3.02E-05 | 1.66E-05 | | 1.50E-06 | 2.16E-05 | 1.34E-05 | 1.34E-05 | 6.66E-05 | | | | | | | | |
| 2565 | 258031.2 | 4085836 | 1.77E-05 | 2.56E-04 | 1.

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2366 | 258333.6 | 4085522 | 2.44E-05 | 3.53E-04 | 2.60E-04 | 2.60E-04 | 1.45E-04 | 3.70E-06 | 5.38E-05 | 4.06E-05 | 4.06E-05 | 2.23E-05 | 2.01E-05 | 2.91E-05 | 1.81E-05 | 1.81E-05 | 8.95E-06 |
| 2367 | 258357.9 | 4085521 | 2.29E-05 | 3.32E-04 | 2.45E-04 | 2.45E-04 | 1.36E-04 | 3.48E-06 | 5.06E-05 | 3.82E-05 | 3.82E-05 | 2.10E-05 | 1.89E-06 | 2.74E-05 | 1.70E-05 | 1.70E-05 | 8.41E-06 |
| 2368 | 258382.2 | 4085520 | 2.16E-05 | 3.12E-04 | 2.30E-04 | 2.30E-04 | 1.28E-04 | 3.27E-06 | 4.75E-05 | 3.59E-05 | 3.59E-05 | 1.97E-05 | 1.78E-06 | 2.57E-05 | 1.60E-05 | 1.60E-05 | 7.91E-06 |
| 2369 | 257562.7 | 4085647 | 3.98E-05 | 5.76E-04 | 4.25E-04 | 4.25E-04 | 2.37E-04 | 6.05E-06 | 8.78E-05 | 6.63E-05 | 6.63E-05 | 3.65E-05 | 3.28E-06 | 4.75E-05 | 2.95E-05 | 2.95E-05 | 1.46E-05 |
| 2370 | 257540.2 | 4085639 | 4.06E-05 | 5.87E-04 | 4.32E-04 | 4.32E-04 | 2.41E-04 | 6.16E-06 | 8.94E-05 | 6.75E-05 | 6.75E-05 | 3.71E-05 | 3.34E-06 | 4.84E-05 | 3.00E-05 | 3.00E-05 | 1.49E-05 |
| 2371 | 257517.6 | 4085630 | 4.12E-05 | 5.96E-04 | 4.39E-04 | 4.39E-04 | 2.45E-04 | 6.25E-06 | 9.08E-05 | 6.86E-05 | 6.86E-05 | 3.77E-05 | 3.40E-05 | 4.91E-05 | 3.05E-05 | 3.05E-05 | 1.51E-05 |
| 2372 | 257495 | 4085622 | 4.18E-05 | 6.04E-04 | 4.45E-04 | 4.45E-04 | 2.48E-04 | 6.34E-06 | 9.20E-05 | 6.95E-05 | 6.95E-05 | 3.82E-05 | 3.44E-06 | 4.98E-05 | 3.09E-05 | 3.09E-05 | 1.53E-05 |
| 2373 | 257472.5 | 4085614 | 4.22E-05 | 6.10E-04 | 4.50E-04 | 4.50E-04 | 2.51E-04 | 6.40E-06 | 9.30E-05 | 7.02E-05 | 7.02E-05 | 3.86E-05 | 3.48E-06 | 5.03E-05 | 3.13E-05 | 3.13E-05 | 1.55E-05 |
| 2374 | 257449.9 | 4085606 | 4.25E-05 | 6.15E-04 | 4.53E-04 | 4.53E-04 | 2.53E-04 | 6.46E-06 | 9.37E-05 | 7.08E-05 | 7.08E-05 | 3.89E-05 | 3.51E-06 | 5.07E-05 | 3.15E-05 | 3.15E-05 | 1.56E-05 |
| 2375 | 257427.3 | 4085597 | 4.29E-05 | 6.21E-04 | 4.57E-04 | 4.57E-04 | 2.55E-04 | 6.51E-06 | 9.46E-05 | 7.14E-05 | 7.14E-05 | 3.93E-05 | 3.54E-05 | 5.12E-05 | 3.18E-05 | 3.18E-05 | 1.57E-05 |
| 2376 | 257404.8 | 4085589 | 4.31E-05 | 6.23E-04 | 4.59E-04 | 4.59E-04 | 2.56E-04 | 6.53E-06 | 9.49E-05 | 7.17E-05 | 7.17E-05 | 3.94E-05 | 3.55E-06 | 5.13E-05 | 3.19E-05 | 3.19E-05 | 1.58E-05 |
| 2377 | 257382.2 | 4085581 | 4.30E-05 | 6.22E-04 | 4.59E-04 | 4.59E-04 | 2.56E-04 | 6.53E-06 | 9.48E-05 | 7.16E-05 | 7.16E-05 | 3.94E-05 | 3.55E-06 | 5.13E-05 | 3.19E-05 | 3.19E-05 | 1.58E-05 |
| 2378 | 257359.7 | 4085573 | 4.28E-05 | 6.19E-04 | 4.56E-04 | 4.56E-04 | 2.54E-04 | 6.49E-06 | 9.43E-05 | 7.12E-05 | 7.12E-05 | 3.92E-05 | 3.53E-06 | 5.10E-05 | 3.17E-05 | 3.17E-05 | 1.57E-05 |
| 2379 | 257337.1 | 4085564 | 4.23E-05 | 6.12E-04 | 4.51E-04 | 4.51E-04 | 2.51E-04 | 6.42E-06 | 9.32E-05 | 7.04E-05 | 7.04E-05 | 3.87E-05 | 3.49E-06 | 5.04E-05 | 3.13E-05 | 3.13E-05 | 1.55E-05 |
| 2380 | 257314.5 | 4085556 | 4.16E-05 | 6.02E-04 | 4.44E-04 | 4.44E-04 | 2.47E-04 | 6.31E-06 | 9.17E-05 | 6.93E-05 | 6.93E-05 | 3.81E-05 | 3.43E-06 | 4.96E-05 | 3.08E-05 | 3.08E-05 | 1.53E-05 |
| 2381 | 257292 | 4085548 | 4.07E-05 | 5.89E-04 | 4.34E-04 | 4.34E-04 | 2.42E-04 | 6.18E-06 | 8.97E-05 | 6.78E-05 | 6.78E-05 | 3.73E-05 | 3.36E-06 | 4.86E-05 | 3.02E-05 | 3.02E-05 | 1.49E-05 |
| 2382 | 257269.4 | 4085540 | 3.97E-05 | 5.74E-04 | 4.23E-04 | 4.23E-04 | 2.36E-04 | 6.03E-06 | 8.75E-05 | 6.61E-05 | 6.61E-05 | 3.63E-05 | 3.27E-05 | 4.73E-05 | 2.94E-05 | 2.94E-05 | 1.46E-05 |
| 2383 | 257246.8 | 4085531 | 3.86E-05 | 5.59E-04 | 4.12E-04 | 4.12E-04 | 2.30E-04 | 5.86E-06 | 8.51E-05 | 6.43E-05 | 6.43E-05 | 3.53E-05 | 3.18E-06 | 4.61E-05 | 2.86E-05 | 2.86E-05 | 1.42E-05 |
| 2384 | 257214.2 | 4085501 | 3.77E-05 | 5.46E-04 | 4.02E-04 | 4.02E-04 | 2.24E-04 | 5.72E-06 | 8.31E-05 | 6.28E-05 | 6.28E-05 | 3.45E-05 | 3.11E-06 | 4.50E-05 | 2.79E-05 | 2.79E-05 | 1.38E-05 |
| 2385 | 257204.2 | 4085480 | 3.77E-05 | 5.46E-04 | 4.02E-04 | 4.02E-04 | 2.24E-04 | 5.73E-06 | 8.32E-05 | 6.28E-05 | 6.28E-05 | 3.45E-05 | 3.11E-05 | 4.50E-05 | 2.80E-05 | 2.80E-05 | 1.38E-05 |
| 2386 | 257194.1 | 4085458 | 3.75E-05 | 5.42E-04 | 4.00E-04 | 4.00E-04 | 2.23E-04 | 5.69E-05 | 8.26E-05 | 6.24E-05 | 6.24E-05 | 3.43E-05 | 3.09E-06 | 4.47E-05 | 2.78E-05 | 2.78E-05 | 1.37E-05 |
| 2387 | 257184.1 | 4085436 | 3.69E-05 | 5.34E-04 | 3.93E-04 | 3.93E-04 | 2.19E-04 | 5.60E-06 | 8.13E-05 | 6.14E-05 | 6.14E-05 | 3.38E-05 | 3.04E-06 | 4.40E-05 | 2.73E-05 | 2.73E-05 | 1.35E-05 |
| 2388 | 257174 | 4085414 | 3.59E-05 | 5.20E-04 | 3.83E-04 | 3.83E-04 | 2.14E-04 | 5.45E-06 | 7.92E-05 | 5.98E-05 | 5.98E-05 | 3.29E-05 | 2.96E-06 | 4.28E-05 | 2.66E-05 | 2.66E-05 | 1.32E-05 |
| 2389 | 257164 | 4085392 | 3.46E-05 | 5.00E-04 | 3.68E-04 | 3.68E-04 | 2.05E-04 | 5.25E-06 | 7.62E-05 | 5.75E-05 | 5.75E-05 | 3.16E-05 | 2.85E-06 | 4.12E-05 | 2.56E-05 | 2.56E-05 | 1.27E-05 |
| 2390 | 257153.9 | 4085370 | 3.28E-05 | 4.75E-04 | 3.50E-04 | 3.50E-04 | 1.95E-04 | 4.98E-06 | 7.23E-05 | 5.46E-05 | 5.46E-05 | 3.00E-05 | 2.70E-05 | 3.91E-05 | 2.43E-05 | 2.43E-05 | 1.20E-05 |
| 2391 | 257143.9 | 4085349 | 3.07E-05 | 4.45E-04 | 3.28E-04 | 3.28E-04 | 1.83E-04 | 4.67E-05 | 6.77E-05 | 5.12E-05 | 5.12E-05 | 2.81E-05 | 2.53E-06 | 3.67E-05 | 2.28E-05 | 2.28E-05 | 1.13E-05 |
| 2392 | 257133.8 | 4085327 | 2.85E-05 | 4.12E-04 | 3.03E-04 | 3.03E-04 | 1.69E-04 | 4.32E-05 | 6.27E-05 | 4.74E-05 | 4.74E-05 | 2.60E-05 | 2.35E-06 | 3.39E-05 | 2.11E-05 | 2.11E-05 | 1.04E-05 |
| 2393 | 257123.8 | 4085305 | 2.61E-05 | 3.78E-04 | 2.78E-04 | 2.78E-04 | 1.55E-04 | 3.96E-05 | 5.75E-05 | 4.34E-05 | 4.34E-05 | 2.39E-05 | 2.15E-06 | 3.11E-05 | 1.93E-05 | 1.93E-05 | 9.57E-06 |
| 2394 | 257113.7 | 4085283 | 2.38E-05 | 3.44E-04 | 2.54E-04 | 2.54E-04 | 1.41E-04 | 3.61E-05 | 5.24E-05 | 3.96E-05 | 3.96E-05 | 2.18E-05 | 1.96E-06 | 2.84E-05 | 1.76E-05 | 1.76E-05 | 8.72E-06 |
| 2395 | 257103.7 | 4085261 | 2.16E-05 | 3.13E-04 | 2.31E-04 | 2.31E-04 | 1.29E-04 | 3.28E-06 | 4.76E-05 | 3.60E-05 | 3.60E-05 | 1.98E-05 | 1.78E-06 | 2.58E-05 | 1.60E-05 | 1.60E-05 | 7.93E-06 |
| 2396 | 257093.7 | 4085240 | 1.97E-05 | 2.85E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 2.99E-06 | 4.34E-05 | 3.28E-05 | 3.28E-05 | 1.80E-05 | 1.62E-06 | 2.35E-05 | 1.46E-05 | 1.46E-05 | 7.22E-06 |
| 2397 | 257083.6 | 4085218 | 1.80E-06 | 2.61E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.74E-06 | 3.97E-05 | 3.00E-05 | 3.00E-05 | 1.65E-05 | 1.49E-06 | 2.15E-05 | 1.33E-05 | 1.33E-05 | 6.61E-06 |
| 2398 | 257073.6 | 4085196 | 1.66E-05 | 2.41E-04 | 1.77E-04 | 1.77E-04 | 9.89E-06 | 2.52E-06 | 3.67E-05 | 2.77E-05 | 2.77E-05 | 1.52E-05 | 1.37E-06 | 1.98E-05 | 1.23E-05 | 1.23E-05 | 6.10E-06 |
| 2399 | 257585.3 | 4085655 | 3.90E-05 | 5.64E-04 | 4.16E-04 | 4.16E-04 | 2.32E-04 | 5.92E-06 | 8.60E-05 | 6.50E-05 | 6.50E-05 | 3.57E-05 | 3.22E-06 | 4.65E-05 | 2.89E-05 | 2.89E-05 | 1.43E-05 |
| 2400 | 257609.6 | 4085654 | 3.92E-05 | 5.67E-04 | 4.18E-04 | 4.18E-04 | 2.33E-04 | 5.95E-06 | 8.64E-05 | 6.53E-05 | 6.53E-05 | 3.59E-05 | 3.23E-06 | 4.67E-05 | 2.90E-05 | 2.90E-05 | 1.44E-05 |
| 2401 | 257633.9 | 4085653 | 3.93E-05 | 5.68E-04 | 4.19E-04 | 4.19E-04 | 2.34E-04 | 5.97E-06 | 8.66E-05 | 6.54E-05 | 6.54E-05 | 3.60E-05 | 3.24E-06 | 4.69E-05 | 2.91E-05 | 2.91E-05 | 1.44E-05 |
| 2402 | 257658.1 | 4085652 | 3.93E-05 | 5.69E-04 | 4.19E-04 | 4.19E-04 | 2.34E-04 | 5.97E-06 | 8.66E-05 | 6.54E-05 | 6.54E-05 | 3.60E-05 | 3.24E-06 | 4.69E-05 | 2.91E-05 | 2.91E-05 | 1.44E-05 |
| 2403 | 257682.4 | 4085651 | 3.92E-05 | 5.67E-04 | 4.18E-04 | 4.18E-04 | 2.33E-04 | 5.95E-06 | 8.64E-05 | 6.53E-05 | 6.53E-05 | 3.59E-05 | 3.23E-06 | 4.68E-05 | 2.91E-05 | 2.91E-05 | 1.44E-05 |
| 2404 | 257706.7 | 4085650 | 3.91E-05 | 5.65E-04 | 4.16E-04 | 4.16E-04 | 2.32E-04 | 5.93E-06 | 8.61E-05 | 6.50E-05 | 6.50E-05 | 3.57E-05 | 3.22E-06 | 4.66E-05 | 2.89E-05 | 2.89E-05 | 1.43E-05 |
| 2405 | 257731 | 4085649 | 3.88E-05 | 5.61E-04 | 4.14E-04 | 4.14E-04 | 2.31E-04 | 5.89E-06 | 8.55E-05 | 6.46E-05 | 6.46E-05 | 3.55E-05 | 3.20E-06 | 4.63E-05 | 2.87E-05 | 2.87E-05 | 1.42E-05 |
| 2406 | 257755.3 | 4085648 | 3.85E-05 | 5.57E-04 | 4.11E-04 | 4.11E-04 | 2.29E-04 | 5.85E-06 | 8.49E-05 | 6.41E-05 | 6.41E-05 | 3.52E-05 | 3.18E-05 | 4.59E-05 | 2.85E-05 | 2.85E-05 | 1.41E-05 |
| 2407 | 257779.5 | 4085647 | 3.82E-05 | 5.52E-04 | 4.07E-04 | 4.07E-04 | 2.27E-04 | 5.79E-06 | 8.41E-05 | 6.35E-05 | 6.35E-05 | 3.49E-05 | 3.15E-05 | 4.55E-05 | 2.83E-05 | 2.83E-05 | 1.40E-05 |
| 2408 | 257803.8 | 4085645 | 3.78E-05 | 5.47E-04 | 4.03E-04 | 4.03E-04 | 2.25E-04 | 5.74E-05 | 8.33E-05 | 6.29E-05 | 6.29E-05 | 3.46E-05 | 3.12E-05 | 4.51E-05 | 2.80E-05 | 2.80E-05 | 1.39E-05 |
| 2409 | 257828.1 | 4085644 | 3.74E-06 | 5.41E-04 | 3.99E-04 | 3.99E-04 | 2.22E-04 | 5.67E-06 | 8.24E-05 | 6.22E-05 | 6.22E-05 | 3.42E-05 | 3.08E-05 | 4.46E-05 | 2.77E-05 | 2.77E-05 | 1.37E-05 |
| 2410 | 257852.4 | 4085643 | 3.69E-05 | 5.34E-04 | 3.94E-04 | 3.94E-04 | 2.20E-04 | 5.61E-06 | 8.14E-05 | 6.15E-05 | 6.15E-05 | 3.38E-05 | 3.04E-06 | 4.40E-05 | 2.74E-05 | 2.74E-05 | 1.35E-05 |
| 2411 | 257876.7 | 4085542 | 3.63E-06 | 5.25E-04 | 3.87E-04 | 3.87E-04 | 2.16E-04 | 5.51E-06 | 8.01E-05 | 6.05E-05 | 6.05E-05 | 3.32E-05 | 2.99E-06 | 4.33E-05 | 2.69E-05 | 2.69E-05 | 1.33E-05 |
| 2412 | 257901 | 4085541 | 3.57E-05 | 5.16E-04 | 3.80E-04 | 3.80E-04 | 2.12E-04 | 5.42E-06 | 7.86E-05 | 5.94E-05 | 5.94E-05 | 3.27E-05 | 2.94E-06 | 4.25E-05 | 2.64E-05 | 2.64E-05 | 1.31E-05 |
| 2413 | 257925.2 | 4085640 | 3.50E-05 | 5.06E-04 | 3.73E-04 | 3.73E-04 | 2.08E-04 | 5.31E-06 | 7.71E-05 | 5.83E-05 | 5.83E-05 | 3.20E-05 | 2.89E-06 | 4.17E-05 | 2.59E-05 | 2.59E-05 | 1.28E-05 |
| 2414 | 257949.5 | 4085639 | 3.42E-05 | 4.95E-04 | 3.65E-04 | 3.65E-04 | 2.03E-04 | 5.20E-06 | 7.54E-05 | 5.70E-05 | 5.70E-05 | 3.13E-05 | 2.82E-05 | 4.08E-05 | 2.54E-05 | 2.54E-05 | 1.25E-05 |
| 2415 | 257973.8 | 4085638 | 3.34E-05 | 4.83E-04 | 3.56E-04 | 3.56E-04 | 1.98E-04 | 5.06E-05 | 7.35E-05 | 5.55E-05 | 5.55E-05 | 3.05E-05 | 2.75E-06 | 3.98E-05 | 2.47E-05 | 2.47E-05 | 1.22E-05 |
| 2416 | 257998.1 | 4085637 | 3.25E-05 | 4.70E-04 | 3.46E-04 | 3.46E-04 | 1.93E-04 | 4.93E-06 | 7.15E-05 | 5.40E-05 | 5.40E-05 | 2.97E-05 | 2.68E-06 | 3.87E-05 | 2.40E-05 | 2.40E-05 | 1.19E-05 |
| 2417 | 258022.4 | 4085636 | 3.15E-06 | 4.55E-04 | 3.36E-04 | 3.36E-04 | 1.87E-04 | 4.78E-06 | 6.93E-05 | 5.24E-05 | 5.24E-05 | 2.88E-05 | 2.59E-06 | 3.75E-05 | 2.33E-05 | 2.33E-05 | 1.15E-05 |
| 2418 | 258046.6 | 4085635 | 3.04E-05 | 4.40E-04 | 3.24E-04 | 3.24E-04 | 1.81E-04 | 4.61E-06 | 6.70E-05 | 5.06E-05 | 5.06E-05 | 2.78E-05 | 2.51E-06 | 3.63E-05 | 2.25E-05 | 2.25E-05 | 1.11E-05 |
| 2419 | 258070.9 | 4085634 | 2.93E-05 | 4.24E-04 | 3.13E-04 | 3.13E-04 | 1.74E-04 | 4.45E-06 | 6.46E-05 | 4.88E-05 | 4.88E-05 | 2.68E-05 | 2.42E-06 | 3.50E-05 | 2.17E-05 | 2.17E-05 | 1.07E-05 |
| 2420 | 258095.2 | 4085633 | 2.82E-05 | 4.09E-04 | 3.01E-04 | 3.01E-04 | 1.68E-04 | 4.29E-06 | 6.22E-05 | 4.70E-05 | 4.70E-05 | 2.59E-05 | 2.33E-05 | 3.37E-05 | 2.09E-05 | 2.09E-05 | 1.04E-05 |
| 2421 | 258119.5 | 4085631 | 2.72E-05 | 3.93E-04 | 2.90E-04 | 2.90E-04 | 1.62E-04 | 4.13E-06 | 5.99E-05 | 4.53E-05 | 4.53E-05 | 2.49E-05 | 2.24E-05 | 3.24E-05 | 2.01E-05 | 2.01E-05 | 9.97E-06 |
| 2422 | 258143.8 | 4085630 | 2.62E-05 | 3.79E-04 | 2.79E-04 | 2.79E-04 | 1.56E-04 | 3.97E-05 | 5.77E-05 | 4.36E-05 | 4.36E-05 | 2.40E-05 | 2.16E-05 | 3.12E-05 | 1.94E-05 | 1.94E-05 | 9.60E-05 |
| 2423 | 258168.1 | 4085629 | 2.52E-05 | 3.64E-04 | 2.68E-04 | 2.68E-04 | 1.50E-04 | 3.82E-05 | 5.55E-05 | 4.19E-05 | 4.19E-05 | 2.30E-05 | 2.08E-06 | 3.00E-05 | 1.86E-05 | 1.86E-05 | 9.23E-06 |
| 2424 | 258192.3 | 4085628 | 2.41E-05 | 3.49E-04 | 2.57E-04 | 2.57E-04 | 1.44E-04 | 3.66E-05 | 5.32E-05 | 4.02E-05 | 4.02E-05 | 2.21E-05 | 1.99E-06 | 2.88E-05 | 1.79E-05 | 1.79E-05 | 8.85E-06 |
| 2425 | 258216.6 | 4085627 | 2.30E-05 | 3.32E-04 | 2.45E-04 | 2.45E-04 | 1.37E-04 | 3.49E-06 | 5.06E-05 | 3.83E-05 | 3.83E-05 | 2.10E-05 | 1.89E-06 | 2.74E-05 | 1.70E-05 | 1.70E-05 | 8.42E-05 |
| 2426 | 258240.9 | 4085626 | 2.20E-06 | 3.18E-04 | 2.34E-04 | 2.34E-04 | 1.30E-04 | 3.33E-06 | 4.84E-05 | 3.65E-05 | 3.65E-05 | 2.01E-05 | 1.81E-06 | 2.62E-05 | 1.63E-05 | 1.63E-05 | 8.05E-06 |
| 2427 | 258265.2 | 4085625 | 2.09E-05 | 3.03E-04 | 2.23E-04 | 2.23E-04 | 1.24E-04 | 3.18E-06 | 4.61E-05 | 3.48E-05 | 3.48E-05 | 1.92E-05 | 1.73E-06 | 2.50E-05 | 1.55E-05 | 1.55E-05 | 7.67E-06 |
| 2428 | 258289.5 | 4085624 | 1.99E-05 | 2.88E-04 | 2.12E-04 | 2.12E-04 | 1.18E-04 | 3.02E-05 | 4.39E-05 | 3.32E-05 | 3.32E-05 | 1.82E-05 | 1.64E-06 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.30E-06 |
| 2429 | 258313.7 | 4085623 | 1.89E-06 | 2.74E-04 | 2.02E-04 | 2.02E-04 | 1.13E-04 | 2.87E-05 | 4.17E-05 | 3.15E-05 | 3.15E-05 | 1.73E-05 | 1.56E-06 | 2.26E-05 | 1.40E-05 | 1.40E-05 | 6.94E-06 |
| 2430 | 258338 | 4085622 | 1.80E-05 | 2.60E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.73E-05 | 3.96E-05 | 2.99E-05 | 2.99E-05 | 1.65E-05 | 1.48E-06 | 2.14E-05 | 1.33E-05 | 1.33E-05 | 6.59E-06 |
| 2431 | 258362.3 | 4085621 | 1.71E-05 | 2.47E-04 | 1.82E-04 | 1.82E-04 | 1.01E-04 | 2.59E-06 | 3.76E-05 | 2.84E-05 | 2.84E-05 | 1.56E-05 | 1.41E-06 | 2.03E-05 | 1.26E-05 | 1.26E-05 | 6.26E-06 |
| 2432 | 258386.6 | 4085620 | 1.63E-05 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.66E-05 | 2.47E-06 | 3.58E-05 | 2.71E-05 | 2.71E-05 | 1.49E-05 | 1.34E-06 | 1.94E-05 | 1.20E-05 | 1.20E-05 | 5.96E-06 |
| 2433 | 257566.9 | 4085747 | 3.04E-06 | 4.40E-04 | 3.24E-04 | 3.24E-04 | 1.81E-04 | 4.61E-06 | 6.70E-05 | 5.06E-05 | 5.06E-05 | 2.78E-05 | 2.51E-06 | 3.62E-05 | 2.25E-05 | 2.25E-06 | 1.11E-05 |
| 2434 | 257544.1 | 4085738 | 3.10E-05 | 4.48E-04 | 3.30E-04 | 3.30E-04 | 1.84E-04 | 4.70E-05 | 6.83E-05 | 5.16E-05 | 5.16E-05 | 2.84E-05 | 2.55E-06 | 3.70E-05 | 2.30E-05 | 2.30E-06 | 1.14E-05 |
| 2435 | 257521.3 | 4085730 | 3.16E-05 | 4.56E-04 | 3.36E-04 | 3.36E-04 | 1.88E-04 | 4.79E-06 | 6.95E-05 | 5.25E-05 | 5.25E-05 | 2.89E-05 | 2.60E-06 | 3.76E-05 | 2.34E-05 | 2.34E-05 | 1.16E-05 |
| 2436 | 257498.5 | 4085722 | 3.21E-05 | 4.64E-04 | 3.42E-04 | 3.42E-04 | 1.91E-04 | 4.87E-06 | 7.07E-05 | 5.34E-05 | 5.34E-05 | 2.93E-05 | 2.64E-06 | 3.82E-05 | 2.37E-05 | 2.37E-05 | 1.18E-05 |
| 2437 | 257475.7 | 4085713 | 3.25E-05 | 4.71E-04 | 3.47E-04 | 3.47E-04 | 1.93E-04 | 4.94E-06 | 7.17E-05 | 5.42E-05 | 5.42E-05 | 2.98E-05 | 2.68E-06 | 3.88E-05 | 2.41E-05 | 2.41E-05 | 1.19E-05 |
| 2438 | 257452.9 | 4085705 | 3.29E-05 | 4.77E-04 | 3.51E-04 | 3.51E-04 | 1.96E-04 | 5.00E-06 | 7.26E-05 | 5.48E-05 | 5.48E-05 | 3.01E-05 | 2.72E-06 | 3.93E-05 | 2.44E-05 | 2.44E-05 | 1.21E-05 |
| 2439 | 257430.1 | 4085697 | 3.33E-05 | 4.82E-04 | 3.55E-04 | 3.55E-04 | 1.98E-04 | 5.05E-06 | 7.34E-05 | 5.54E-05 | 5.54E-05 | 3.05E-05 | 2.75E-06 | 3.97E-05 | 2.47E-05 | 2.47E-05 | 1.22E-05 |
| 2440 | 257407.3 | 4085688 | 3.36E-05 | 4.86E-04 | 3.58E-04 | 3.58E-04 | 2.00E-04 | 5.10E-06 | 7.41E-05 | 5.60E-05 | 5.60E-05 | 3.08E-05 | 2.77E-05 | 4.01E-05 | 2.49E-05 | 2.49E-05 | 1.23E-05 |
| 2441 | 257384.5 | 4085680 | 3.39E-05 | 4.90E-04 | 3.61E-04 | 3.61E-04 | 2.01E-04 | 5.14E-06 | 7.46E-05 | 5.64E-05 | 5.64E-05 | 3.10E-05 | 2.79E-06 | 4.04E-05 | 2.51E-05 | 2.51E-05 | 1.24E-05 |
| 2442 | 257361.7 | 4085672 | 3.41E-05 | 4.93E-04 | 3.63E-04 | 3.63E-04 | 2.02E-04 | 5.17E-06 | 7.50E-05 | 5.67E-05 | 5.67E-05 | 3.12E-05 | 2.81E-06 | 4.06E-05 | 2.52E-05 | 2.52E-05 | 1.25E-05 |
| 2443 | 257338.9 | 4085663 | 3.41E-05 | 4.94E-04 | 3.64E-04 | 3.64E-04 | 2.03E-04 | 5.18E-06 | 7.52E-05 | 5.68E-05 | 5.68E-05 | 3.12E-05 | 2.81E-05 | 4.07E-05 | 2.53E-05 | 2.53E-05 | 1.25E-05 |
| 2444 | 257316.1 | 4085655 | 3.41E-05 | 4.94E-04 | 3.64E-04 | 3.64E-04 | 2.03E-04 | 5.18E-06 | 7.52E-05 | 5.68E-05 | 5.68E-05 | 3.12E-05 | 2.81E-05 | 4.07E-05 | 2.53E-05 | 2.53E-05 | 1.25E-05 |
| 2445 | 257293.3 | 4085647 | 3.40E-05 | 4.91E-04 | 3.62E-04 | 3.62E-04 | 2.02E-04 | 5.15E-06 | 7.48E-05 | 5.65E-05 | 5.65E-05 | 3.11E-05 | 2.80E-05 | 4.05E-05 | 2.52E-05 | 2.52E-05 | 1.24E-05 |
| 2446 | 257270.5 | 4085638 | 3.36E-05 | 4.86E-04 | 3.58E-04 | 3.58E-04 | 2.00E-04 | 5.10E-06 | 7.40E-05 | 5.59E-05 | 5.59E-05 | 3.07E-05 | 2.77E-05 | 4.01E-05 | 2.49E-05 | 2.49E-05 | 1.23E-05 |
| 2447 | 257247.7 | 4085630 | 3.31E-05 | 4.79E-04 | 3.53E-04 | 3.53E-04 | 1.97E-04 | 5.02E-06 | 7.29E-05 | 5.51E-05 | 5.51E-05 | 3.03E-05 | 2.73E-06 | 3.95E-05 | 2.45E-05 | 2.45E-05 | 1.21E-05 |
| 2448 | 257224.9 | 4085622 | 3.25E-05 | 4.71E-04 | 3.47E-04 | 3.47E-04 | 1.93E-04 | 4.94E-06 | 7.17E-05 | 5.42E-05 | 5.42E-05 | 2.98E-05 | 2.68E-06 | 3.88E-05 | 2.41E-05 | 2.41E-05 | 1.19E-05 |
| 2449 | 257202.1 | 4085613 | 3.19E-05 | 4.62E-04 | 3.40E-04 | 3.40E-04 | 1.90E-04 | 4.84E-06 | 7.03E-05 | 5.31E-05 | 5.31E-05 | 2.92E-05 | 2.63E-06 | 3.81E-06 | 2.36E-05 | 2.36E-06 | 1.17E-05 |
| 2450 | 257179.3 | 4085605 | 3.13E-05 | 4.52E-04 | 3.33E-04 | 3.33E-04 | 1.85E-04 | 4.74E-06 | 6.89E-05 | 5.20E-05 | 5.20E-05 | 2.86E-05 | 2.58E-06 | 3.73E-05 | 2.31E-05 | 2.31E-05 | 1.15E-05 |
| 2451 | 257146.3 | 4085575 | 3.08E-05 | 4.46E-04 | 3.29E-04 | 3.29E-04 | 1.83E-04 | 4.68E-06 | 6.79E-05 | 5.13E-05 | 5.13E-05 | 2.82E-05 | 2.54E-05 | 3.68E-05 | 2.28E-05 | 2.28E-05 | 1.13E-05 |
| 2452 | 257136.2 | 4085553 | 3.10E-05 | 4.48E-04 | 3.30E-04 | 3.30E-04 | 1.84E-04 | 4.70E-06 | 6.82E-05 | 5.15E-05 | 5.15E-05 | 2.83E-05 | 2.55E-06 | 3.69E-05 | 2.29E-05 | 2.29E-05 | 1.14E-05 |
| 2453 | 257126 | 4085531 | 3.09E-05 | 4.47E-04 | 3.30E-04 | 3.30E-04 | 1.84E-04 | 4.69E-06 | 6.81E-05 | 5.15E-05 | 5.15E-05 | 2.83E-05 | 2.55E-06 | 3.69E-05 | 2.29E-05 | 2.29E-05 | 1.13E-05 |
| 2454 | 257115.9 | 4085509 | 3.06E-05 | 4.43E-04 | 3.27E-04 | 3.27E-04 | 1.82E-04 | 4.65E-06 | 6.75E-05 | 5.10E-05 | 5.10E-05 | 2.80E-05 | 2.52E-06 | 3.65E-05 | 2.27E-05 | 2.27E-05 | 1.12E-05 |
| 2455 | 257105.7 | 4085487 | 3.01E-05 | 4.35E-04 | 3.21E-04 | 3.21E-04 | 1.79E-04 | 4.57E-06 | 6.63E-05 | 5.01E-05 | 5.01E-05 | 2.75E-05 | 2.48E-06 | 3.59E-05 | 2.23E-05 | 2.23E-05 | 1.10E-06 |
| 2456 | 257095.6 | 4085464 | 2.93E-05 | 4.23E-04 | 3.12E-04 | 3.12E-04 | 1.74E-04 | 4.44E-06 | 6.45E-05 | 4.87E-05 | 4.87E-05 | 2.68E-05 | 2.41E-05 | 3.49E-05 | 2.17E-05 | 2.17E-05 | 1.07E-05 |
| 2457 | 257085.4 | 4085442 | 2.82E-05 | 4.08E-04 | 3.00E-04 | 3.00E-04 | 1.68E-04 | 4.28E-06 | 6.21E-05 | 4.69E-05 | 4.69E-05 | 2.58E-05 | 2.32E-05 | 3.36E-05 | 2.09E-05 | 2.09E-05 | 1.03E-05 |
| 2458 | 257075.3 | 4085420 | 2.68E-05 | 3.88E-04 | 2.85E-04 | 2.85E-04 | 1.59E-04 | 4.07E-06 | 5.91E-05 | 4.47E-05 | 4.47E-05 | 2.48E-05 | 2.21E-06 | 3.20E-05 | 1.99E-05 | 1.99E-05 | 9.83E-05 |
| 2459 | 257065.1 | 4085398 | 2.53E-05 | 3.65E-04 | 2.69E-04 | 2.69E-04 | 1.50E-04 | 3.83E-06 | 5.56E-05 | 4.20E-05 | 4.20E-05 | 2.31E-05 | 2.08E-05 | 3.01E-05 | 1.87E-05 | 1.87E-05 | 9.26E-06 |
| 2460 | 257055 | 4085376 | 2.35E-05 | 3.40E-04 | 2.51E-04 | 2.51E-04 | 1.40E-04 | 3.57E-06 | 5.18E-05 | 3.91E-05 | 3.91E-05 | 2.15E-05 | 1.94E-05 | 2.80E-05 | 1.74E-05 | 1.74E-06 | 8.62E-06 |
| 2461 | 257044.8 | 4085354 | 2.17E-05 | 3.14E-04 | 2.32E-04 | 2.32E-04 | 1.29E-04 | 3.30E-05 | 4.79E-05 | 3.62E-05 | 3.62E-05 | 1.99E-05 | 1.79E-06 | 2.59E-05 | 1.61E-05 | 1.61E-05 | 7.96E-06 |
| 2462 | 257034.7 | 4085332 | 1.99E-05 | 2.88E-04 | 2.13E-04 | 2.13E-04 | 1.18E-04 | 3.03E-06 | 4.39E-05 | 3.32E-05 | 3.32E-06 | 1.82E-05 | 1.64E-06 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.31E-06 |
| 2463 | 257024.5 | 4085310 | 1.83E-05 | 2.64E-04 | 1.95E-04 | 1.95E-04 | 1.08E-04 | 2.77E-06 | 4.02E-05 | 3.04E-05 | 3.04E-05 | 1.67E-05 | 1.50E-06 | 2.18E-05 | 1.35E-05 | 1.35E-05 | 6.69E-06 |
| 2464 | 257014.3 | 4085288 | 1.67E-05 | 2.42E-04 | 1.78E-04 | 1.78E-04 | 9.94E-05 | 2.54E-06 | 3.69E-05 | 2.78E-05 | 2.78E-05 | 1.53E-05 | 1.38E-06 | 1.99E-05 | 1.24E-05 | 1.24E-05 | 6.13E-05 |
| 2465 | 257004.2 | 4085266 | 1.54E-05 | 2.23E-04 | 1.64E-04 | 1.64E-04 | 9.15E-05 | 2.34E-06 | 3.39E-05 | 2.56E-05 | 2.56E-05 | 1.41E-05 | 1.27E-06 | 1.84E-05 | 1.14E-05 | 1.14E-05 | 5.64E-05 |
| 2466 | 256994 | 4085244 | 1.43E-05 | 2.06E-04 | 1.52E-04 | 1.52E-04 | 8.47E-05 | 2.16E-06 | 3.14E-05 | 2.37E-05 | 2.37E-05 | 1.30E-05 | 1.17E-06 | 1.70E-05 | 1.06E-05 | 1.06E-06 | 5.22E-06 |
| 2467 | 256983.9 | 4085222 | 1.33E-05 | 1.93E-04 | 1.42E-04 | 1.42E-04 | 7.91E-05 | 2.02E-06 | 2.93E-05 | 2.22E-05 | 2.22E-05 | 1.22E-05 | 1.10E-06 | 1.59E-05 | 9.86E-06 | 9.86E-06 | 4.88E-06 |
| 2468 | 256973.7 | 4085200 | 1.25E-05 | 1.81E-04 | 1.34E-04 | 1.34E-04 | 7.46E-05 | 1.90E-06 | 2.76E-05 | 2.09E-05 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2263 | 257468.1 | 4085416 | 7.70E-05 | 1.11E-03 | 8.21E-04 | 8.21E-04 | 4.58E-04 | 1.17E-05 | 1.70E-04 | 1.28E-04 | 1.28E-04 | 7.05E-05 | 6.35E-06 | 9.18E-05 | 5.70E-05 | 5.70E-05 | 2.82E-05 |
| 2264 | 257446.5 | 4085408 | 7.57E-05 | 1.09E-03 | 8.07E-04 | 8.07E-04 | 4.50E-04 | 1.15E-05 | 1.67E-04 | 1.26E-04 | 1.26E-04 | 6.93E-05 | 6.24E-06 | 9.03E-05 | 5.61E-05 | 5.61E-05 | 2.77E-05 |
| 2265 | 257424.8 | 4085400 | 7.38E-05 | 1.07E-03 | 7.86E-04 | 7.86E-04 | 4.38E-04 | 1.12E-05 | 1.63E-04 | 1.23E-04 | 1.23E-04 | 6.75E-05 | 6.08E-06 | 8.79E-05 | 5.46E-05 | 5.46E-05 | 2.70E-05 |
| 2266 | 257403.2 | 4085392 | 7.12E-05 | 1.03E-03 | 7.59E-04 | 7.59E-04 | 4.23E-04 | 1.08E-05 | 1.57E-04 | 1.19E-04 | 1.19E-04 | 6.52E-05 | 5.87E-06 | 8.49E-05 | 5.28E-05 | 5.28E-05 | 2.61E-05 |
| 2267 | 257381.5 | 4085384 | 6.82E-05 | 9.87E-04 | 7.28E-04 | 7.28E-04 | 4.06E-04 | 1.04E-05 | 1.50E-04 | 1.14E-04 | 1.14E-04 | 6.25E-05 | 5.63E-06 | 8.14E-05 | 5.05E-05 | 5.05E-05 | 2.50E-05 |
| 2268 | 257350.2 | 4085355 | 6.52E-05 | 9.43E-04 | 6.95E-04 | 6.95E-04 | 3.88E-04 | 9.90E-05 | 1.44E-04 | 1.09E-04 | 1.09E-04 | 5.97E-05 | 5.38E-06 | 7.78E-05 | 4.83E-05 | 4.83E-05 | 2.39E-05 |
| 2269 | 257340.5 | 4085334 | 6.48E-05 | 9.37E-04 | 6.91E-04 | 6.91E-04 | 3.85E-04 | 9.83E-05 | 1.43E-04 | 1.08E-04 | 1.08E-04 | 5.93E-05 | 5.34E-05 | 7.73E-05 | 4.80E-05 | 4.80E-05 | 2.38E-05 |
| 2270 | 257330.9 | 4085313 | 6.35E-05 | 9.18E-04 | 6.77E-04 | 6.77E-04 | 3.77E-04 | 9.64E-05 | 1.40E-04 | 1.06E-04 | 1.06E-04 | 5.81E-05 | 5.23E-05 | 7.57E-05 | 4.70E-05 | 4.70E-05 | 2.33E-05 |
| 2271 | 257321.2 | 4085292 | 6.12E-05 | 8.85E-04 | 6.52E-04 | 6.52E-04 | 3.63E-04 | 9.28E-05 | 1.35E-04 | 1.02E-04 | 1.02E-04 | 5.60E-05 | 5.04E-05 | 7.29E-05 | 4.53E-05 | 4.53E-05 | 2.24E-05 |
| 2272 | 257311.6 | 4085271 | 5.78E-05 | 8.36E-04 | 6.16E-04 | 6.16E-04 | 3.43E-04 | 8.77E-05 | 1.27E-04 | 9.62E-05 | 9.62E-05 | 5.29E-05 | 4.76E-05 | 6.89E-05 | 4.28E-05 | 4.28E-05 | 2.12E-05 |
| 2273 | 257302 | 4085251 | 5.36E-05 | 7.75E-04 | 5.71E-04 | 5.71E-04 | 3.19E-04 | 8.13E-05 | 1.18E-04 | 8.92E-05 | 8.92E-05 | 4.90E-05 | 4.42E-05 | 6.39E-05 | 3.97E-05 | 3.97E-05 | 1.96E-05 |
| 2274 | 257292.3 | 4085230 | 4.89E-05 | 7.07E-04 | 5.21E-04 | 5.21E-04 | 2.90E-04 | 7.42E-05 | 1.08E-04 | 8.14E-05 | 8.14E-05 | 4.47E-05 | 4.03E-05 | 5.83E-05 | 3.62E-05 | 3.62E-05 | 1.79E-05 |
| 2275 | 257282.7 | 4085209 | 4.40E-05 | 6.37E-04 | 4.69E-04 | 4.69E-04 | 2.62E-04 | 6.68E-05 | 9.70E-05 | 7.33E-05 | 7.33E-05 | 4.03E-05 | 3.63E-06 | 5.25E-05 | 3.26E-05 | 3.26E-05 | 1.61E-05 |
| 2276 | 257273 | 4085188 | 3.93E-05 | 5.68E-04 | 4.19E-04 | 4.19E-04 | 2.34E-04 | 5.96E-06 | 8.66E-05 | 6.54E-05 | 6.54E-05 | 3.60E-05 | 3.24E-06 | 4.88E-05 | 2.91E-05 | 2.91E-05 | 1.44E-05 |
| 2277 | 257576.4 | 4085455 | 7.69E-05 | 1.11E-03 | 8.19E-04 | 8.19E-04 | 4.57E-04 | 1.17E-05 | 1.69E-04 | 1.28E-04 | 1.28E-04 | 7.03E-06 | 6.34E-06 | 9.16E-05 | 5.69E-05 | 5.69E-05 | 2.82E-05 |
| 2278 | 257600.7 | 4085454 | 7.85E-05 | 1.14E-03 | 8.37E-04 | 8.37E-04 | 4.67E-04 | 1.19E-05 | 1.73E-04 | 1.31E-04 | 1.31E-04 | 7.19E-05 | 6.47E-06 | 9.36E-05 | 5.82E-05 | 5.82E-05 | 2.88E-05 |
| 2279 | 257625 | 4085453 | 7.99E-05 | 1.16E-03 | 8.52E-04 | 8.52E-04 | 4.75E-04 | 1.21E-05 | 1.76E-04 | 1.33E-04 | 1.33E-04 | 7.31E-05 | 6.59E-06 | 9.52E-05 | 5.92E-05 | 5.92E-05 | 2.93E-05 |
| 2280 | 257649.3 | 4085452 | 8.09E-05 | 1.17E-03 | 8.63E-04 | 8.63E-04 | 4.81E-04 | 1.23E-05 | 1.78E-04 | 1.35E-04 | 1.35E-04 | 7.41E-05 | 6.67E-06 | 9.65E-05 | 5.99E-05 | 5.99E-05 | 2.97E-05 |
| 2281 | 257673.6 | 4085451 | 8.14E-05 | 1.18E-03 | 8.67E-04 | 8.67E-04 | 4.84E-04 | 1.23E-05 | 1.79E-04 | 1.35E-04 | 1.35E-04 | 7.45E-05 | 6.71E-06 | 9.70E-05 | 6.03E-05 | 6.03E-05 | 2.98E-05 |
| 2282 | 257697.8 | 4085450 | 8.17E-05 | 1.18E-03 | 8.71E-04 | 8.71E-04 | 4.86E-04 | 1.24E-05 | 1.80E-04 | 1.36E-04 | 1.36E-04 | 7.48E-05 | 6.74E-05 | 9.74E-05 | 6.05E-05 | 6.05E-05 | 3.00E-05 |
| 2283 | 257722.1 | 4085449 | 8.20E-05 | 1.19E-03 | 8.75E-04 | 8.75E-04 | 4.88E-04 | 1.25E-05 | 1.81E-04 | 1.37E-04 | 1.37E-04 | 7.51E-05 | 6.76E-05 | 9.78E-05 | 6.08E-05 | 6.08E-05 | 3.01E-06 |
| 2284 | 257746.4 | 4085448 | 8.22E-05 | 1.19E-03 | 8.76E-04 | 8.76E-04 | 4.88E-04 | 1.25E-05 | 1.81E-04 | 1.37E-04 | 1.37E-04 | 7.52E-05 | 6.77E-05 | 9.80E-05 | 6.09E-05 | 6.09E-05 | 3.01E-05 |
| 2285 | 257770.7 | 4085447 | 8.21E-05 | 1.19E-03 | 8.76E-04 | 8.76E-04 | 4.88E-04 | 1.25E-05 | 1.81E-04 | 1.37E-04 | 1.37E-04 | 7.52E-05 | 6.77E-06 | 9.79E-05 | 6.08E-05 | 6.08E-05 | 3.01E-05 |
| 2286 | 257795 | 4085446 | 8.19E-05 | 1.18E-03 | 8.73E-04 | 8.73E-04 | 4.87E-04 | 1.24E-05 | 1.80E-04 | 1.36E-04 | 1.36E-04 | 7.49E-05 | 6.75E-06 | 9.76E-05 | 6.06E-05 | 6.06E-05 | 3.00E-06 |
| 2287 | 257819.3 | 4085445 | 8.14E-05 | 1.18E-03 | 8.67E-04 | 8.67E-04 | 4.84E-04 | 1.23E-05 | 1.79E-04 | 1.35E-04 | 1.35E-04 | 7.45E-05 | 6.71E-06 | 9.70E-05 | 6.03E-05 | 6.03E-05 | 2.98E-05 |
| 2288 | 257843.5 | 4085443 | 8.07E-05 | 1.17E-03 | 8.60E-04 | 8.60E-04 | 4.79E-04 | 1.22E-05 | 1.78E-04 | 1.34E-04 | 1.34E-04 | 7.38E-05 | 6.65E-05 | 9.62E-05 | 5.97E-05 | 5.97E-05 | 2.96E-06 |
| 2289 | 257867.8 | 4085442 | 7.98E-05 | 1.15E-03 | 8.50E-04 | 8.50E-04 | 4.74E-04 | 1.21E-05 | 1.76E-04 | 1.33E-04 | 1.33E-04 | 7.30E-05 | 6.57E-05 | 9.51E-05 | 5.91E-05 | 5.91E-05 | 2.92E-05 |
| 2290 | 257892.1 | 4085441 | 7.87E-05 | 1.14E-03 | 8.39E-04 | 8.39E-04 | 4.68E-04 | 1.19E-05 | 1.73E-04 | 1.31E-04 | 1.31E-04 | 7.20E-05 | 6.48E-05 | 9.38E-05 | 5.83E-05 | 5.83E-05 | 2.88E-05 |
| 2291 | 257916.4 | 4085440 | 7.74E-05 | 1.12E-03 | 8.25E-04 | 8.25E-04 | 4.60E-04 | 1.17E-05 | 1.71E-04 | 1.29E-04 | 1.29E-04 | 7.08E-05 | 6.38E-05 | 9.23E-05 | 5.73E-05 | 5.73E-05 | 2.84E-05 |
| 2292 | 257940.7 | 4085439 | 7.60E-05 | 1.10E-03 | 8.10E-04 | 8.10E-04 | 4.52E-04 | 1.15E-05 | 1.67E-04 | 1.27E-04 | 1.27E-04 | 6.96E-05 | 6.27E-06 | 9.06E-05 | 5.63E-05 | 5.63E-05 | 2.79E-05 |
| 2293 | 257964.9 | 4085438 | 7.44E-05 | 1.08E-03 | 7.93E-04 | 7.93E-04 | 4.42E-04 | 1.13E-05 | 1.64E-04 | 1.24E-04 | 1.24E-04 | 6.81E-05 | 6.14E-06 | 8.87E-05 | 5.51E-06 | 5.51E-05 | 2.73E-05 |
| 2294 | 257989.2 | 4085437 | 7.27E-05 | 1.05E-03 | 7.75E-04 | 7.75E-04 | 4.32E-04 | 1.10E-05 | 1.60E-04 | 1.21E-04 | 1.21E-04 | 6.65E-05 | 5.99E-05 | 8.67E-05 | 5.38E-05 | 5.38E-05 | 2.67E-05 |
| 2295 | 258013.5 | 4085436 | 7.08E-05 | 1.02E-03 | 7.55E-04 | 7.55E-04 | 4.21E-04 | 1.07E-05 | 1.56E-04 | 1.18E-04 | 1.18E-04 | 6.46E-05 | 5.84E-05 | 8.44E-05 | 5.24E-05 | 5.24E-05 | 2.60E-05 |
| 2296 | 258037.8 | 4085435 | 6.88E-05 | 9.94E-04 | 7.33E-04 | 7.33E-04 | 4.09E-04 | 1.04E-05 | 1.52E-04 | 1.14E-04 | 1.14E-04 | 6.29E-05 | 5.67E-05 | 8.20E-05 | 5.09E-05 | 5.09E-05 | 2.52E-05 |
| 2297 | 258062.1 | 4085434 | 6.65E-05 | 9.62E-04 | 7.09E-04 | 7.09E-04 | 3.95E-04 | 1.01E-05 | 1.47E-04 | 1.11E-04 | 1.11E-04 | 6.09E-05 | 5.48E-06 | 7.93E-05 | 4.93E-05 | 4.93E-05 | 2.44E-05 |
| 2298 | 258086.4 | 4085433 | 6.41E-05 | 9.27E-04 | 6.83E-04 | 6.83E-04 | 3.81E-04 | 9.72E-06 | 1.41E-04 | 1.07E-04 | 1.07E-04 | 5.86E-05 | 5.28E-05 | 7.64E-05 | 4.74E-05 | 4.74E-05 | 2.35E-05 |
| 2299 | 258110.6 | 4085432 | 6.14E-05 | 8.89E-04 | 6.55E-04 | 6.55E-04 | 3.65E-04 | 9.32E-06 | 1.35E-04 | 1.02E-04 | 1.02E-04 | 5.62E-05 | 5.06E-05 | 7.32E-05 | 4.55E-05 | 4.55E-05 | 2.25E-05 |
| 2300 | 258134.9 | 4085431 | 5.86E-05 | 8.48E-04 | 6.25E-04 | 6.25E-04 | 3.48E-04 | 8.90E-06 | 1.29E-04 | 9.76E-05 | 9.76E-05 | 5.37E-05 | 4.83E-06 | 6.99E-05 | 4.34E-05 | 4.34E-05 | 2.15E-05 |
| 2301 | 258159.2 | 4085430 | 5.57E-05 | 8.06E-04 | 5.94E-04 | 5.94E-04 | 3.31E-04 | 8.45E-06 | 1.23E-04 | 9.27E-05 | 9.27E-05 | 5.10E-05 | 4.59E-05 | 6.64E-05 | 4.13E-05 | 4.13E-05 | 2.04E-05 |
| 2302 | 258183.5 | 4085428 | 5.27E-05 | 7.63E-04 | 5.62E-04 | 5.62E-04 | 3.13E-04 | 8.00E-06 | 1.16E-04 | 8.78E-05 | 8.78E-05 | 4.83E-05 | 4.35E-05 | 6.29E-05 | 3.91E-05 | 3.91E-06 | 1.93E-05 |
| 2303 | 258207.8 | 4085427 | 4.98E-05 | 7.20E-04 | 5.31E-04 | 5.31E-04 | 2.95E-04 | 7.56E-06 | 1.10E-04 | 8.29E-05 | 8.29E-05 | 4.56E-05 | 4.10E-05 | 5.94E-05 | 3.69E-05 | 3.69E-05 | 1.83E-05 |
| 2304 | 258232 | 4085426 | 4.69E-05 | 6.79E-04 | 5.00E-04 | 5.00E-04 | 2.79E-04 | 7.12E-06 | 1.03E-04 | 7.81E-05 | 7.81E-05 | 4.29E-05 | 3.87E-05 | 5.59E-05 | 3.47E-05 | 3.47E-05 | 1.72E-05 |
| 2305 | 258256.3 | 4085425 | 4.41E-05 | 6.37E-04 | 4.70E-04 | 4.70E-04 | 2.62E-04 | 6.69E-06 | 9.71E-05 | 7.34E-05 | 7.34E-05 | 4.03E-05 | 3.63E-05 | 5.25E-05 | 3.26E-05 | 3.26E-05 | 1.62E-05 |
| 2306 | 258280.6 | 4085424 | 4.12E-05 | 5.96E-04 | 4.40E-04 | 4.40E-04 | 2.45E-04 | 6.26E-06 | 9.09E-05 | 8.86E-05 | 6.86E-05 | 3.77E-05 | 3.40E-05 | 4.92E-05 | 3.05E-05 | 3.05E-05 | 1.51E-05 |
| 2307 | 258304.9 | 4085423 | 3.84E-05 | 5.56E-04 | 4.10E-04 | 4.10E-04 | 2.28E-04 | 5.83E-05 | 8.47E-05 | 6.40E-05 | 6.40E-05 | 3.52E-05 | 3.17E-05 | 4.58E-05 | 2.85E-05 | 2.85E-05 | 1.41E-05 |
| 2308 | 258329.2 | 4085422 | 3.57E-05 | 5.16E-04 | 3.81E-04 | 3.81E-04 | 2.12E-04 | 5.42E-06 | 7.86E-05 | 5.94E-05 | 5.94E-05 | 3.27E-05 | 2.94E-05 | 4.26E-05 | 2.64E-05 | 2.64E-05 | 1.31E-05 |
| 2309 | 258353.5 | 4085421 | 3.31E-05 | 4.79E-04 | 3.53E-04 | 3.53E-04 | 1.97E-04 | 5.02E-05 | 7.29E-05 | 5.51E-05 | 5.51E-05 | 3.03E-05 | 2.73E-05 | 3.94E-05 | 2.45E-05 | 2.45E-05 | 1.21E-05 |
| 2310 | 258377.7 | 4085420 | 3.07E-05 | 4.43E-04 | 3.27E-04 | 3.27E-04 | 1.82E-04 | 4.65E-05 | 6.75E-05 | 5.10E-05 | 5.10E-05 | 2.81E-05 | 2.53E-06 | 3.65E-05 | 2.27E-05 | 2.27E-05 | 1.12E-05 |
| 2311 | 257558.6 | 4085547 | 5.43E-05 | 7.85E-04 | 5.79E-04 | 5.79E-04 | 3.23E-04 | 8.24E-05 | 1.20E-04 | 9.04E-05 | 9.04E-05 | 4.97E-05 | 4.48E-06 | 6.47E-05 | 4.02E-05 | 4.02E-05 | 1.99E-05 |
| 2312 | 257536.4 | 4085539 | 5.53E-05 | 8.00E-04 | 5.90E-04 | 5.90E-04 | 3.29E-04 | 8.39E-05 | 1.22E-04 | 9.21E-05 | 9.21E-05 | 5.06E-05 | 4.56E-06 | 6.59E-05 | 4.10E-05 | 4.10E-05 | 2.03E-05 |
| 2313 | 257514.2 | 4085531 | 5.59E-05 | 8.08E-04 | 5.96E-04 | 5.96E-04 | 3.32E-04 | 8.48E-05 | 1.23E-04 | 9.30E-05 | 9.30E-05 | 5.11E-05 | 4.61E-06 | 6.66E-05 | 4.14E-05 | 4.14E-05 | 2.05E-05 |
| 2314 | 257492 | 4085523 | 5.63E-05 | 8.14E-04 | 6.00E-04 | 6.00E-04 | 3.34E-04 | 8.54E-05 | 1.24E-04 | 9.36E-05 | 9.36E-05 | 5.15E-05 | 4.64E-06 | 6.71E-05 | 4.17E-05 | 4.17E-05 | 2.06E-05 |
| 2315 | 257469.8 | 4085515 | 5.64E-05 | 8.16E-04 | 6.01E-04 | 6.01E-04 | 3.35E-04 | 8.56E-05 | 1.24E-04 | 9.39E-05 | 9.39E-05 | 5.16E-05 | 4.65E-06 | 6.73E-05 | 4.18E-05 | 4.18E-05 | 2.07E-05 |
| 2316 | 257447.6 | 4085507 | 5.64E-05 | 8.15E-04 | 6.01E-04 | 6.01E-04 | 3.35E-04 | 8.55E-05 | 1.24E-04 | 9.38E-05 | 9.38E-05 | 5.16E-05 | 4.65E-05 | 6.72E-05 | 4.17E-05 | 4.17E-05 | 2.07E-05 |
| 2317 | 257425.3 | 4085498 | 5.61E-05 | 8.11E-04 | 5.98E-04 | 5.98E-04 | 3.33E-04 | 8.51E-06 | 1.24E-04 | 9.33E-05 | 9.33E-05 | 5.13E-05 | 4.62E-06 | 6.68E-05 | 4.15E-05 | 4.15E-05 | 2.06E-05 |
| 2318 | 257403.1 | 4085490 | 5.55E-06 | 8.02E-04 | 5.91E-04 | 5.91E-04 | 3.30E-04 | 8.42E-05 | 1.22E-04 | 9.23E-05 | 9.23E-05 | 5.08E-05 | 4.57E-05 | 6.61E-05 | 4.11E-05 | 4.11E-05 | 2.03E-05 |
| 2319 | 257380.9 | 4085482 | 5.45E-05 | 7.88E-04 | 5.81E-04 | 5.81E-04 | 3.24E-04 | 8.27E-05 | 1.20E-04 | 9.07E-05 | 9.07E-05 | 4.99E-05 | 4.49E-05 | 6.50E-05 | 4.04E-05 | 4.04E-05 | 2.00E-05 |
| 2320 | 257358.7 | 4085474 | 5.32E-05 | 7.69E-04 | 5.67E-04 | 5.67E-04 | 3.16E-04 | 8.07E-05 | 1.17E-04 | 8.85E-05 | 8.85E-05 | 4.87E-05 | 4.38E-05 | 6.34E-05 | 3.94E-05 | 3.94E-05 | 1.95E-05 |
| 2321 | 257336.5 | 4085466 | 5.16E-05 | 7.46E-04 | 5.50E-04 | 5.50E-04 | 3.06E-04 | 7.83E-05 | 1.14E-04 | 8.58E-05 | 8.58E-05 | 4.72E-05 | 4.25E-05 | 6.15E-05 | 3.82E-05 | 3.82E-05 | 1.89E-05 |
| 2322 | 257314.3 | 4085458 | 4.98E-05 | 7.20E-04 | 5.30E-04 | 5.30E-04 | 2.96E-04 | 7.55E-05 | 1.10E-04 | 8.28E-05 | 8.28E-05 | 4.55E-05 | 4.10E-05 | 5.93E-05 | 3.69E-05 | 3.69E-05 | 1.82E-05 |
| 2323 | 257282.2 | 4085428 | 4.81E-05 | 6.95E-04 | 5.12E-04 | 5.12E-04 | 2.86E-04 | 7.29E-05 | 1.06E-04 | 8.00E-05 | 8.00E-05 | 4.40E-05 | 3.96E-05 | 5.73E-05 | 3.56E-05 | 3.56E-05 | 1.76E-05 |
| 2324 | 257272.3 | 4085407 | 4.79E-06 | 6.93E-04 | 5.11E-04 | 5.11E-04 | 2.85E-04 | 7.27E-06 | 1.06E-04 | 7.98E-05 | 7.98E-05 | 4.39E-05 | 3.95E-05 | 5.71E-05 | 3.55E-05 | 3.55E-05 | 1.76E-05 |
| 2325 | 257262.4 | 4085385 | 4.73E-05 | 6.84E-04 | 5.04E-04 | 5.04E-04 | 2.81E-04 | 7.18E-06 | 1.04E-04 | 7.88E-05 | 7.88E-05 | 4.33E-05 | 3.90E-05 | 5.64E-05 | 3.50E-05 | 3.50E-05 | 1.73E-05 |
| 2326 | 257252.5 | 4085364 | 4.62E-05 | 6.68E-04 | 4.92E-04 | 4.92E-04 | 2.74E-04 | 7.01E-05 | 1.02E-04 | 7.69E-05 | 7.69E-05 | 4.22E-05 | 3.81E-05 | 5.50E-05 | 3.42E-05 | 3.42E-05 | 1.69E-05 |
| 2327 | 257242.6 | 4085342 | 4.44E-05 | 6.42E-04 | 4.73E-04 | 4.73E-04 | 2.64E-04 | 6.74E-06 | 9.79E-05 | 7.39E-05 | 7.39E-05 | 4.06E-05 | 3.66E-05 | 5.30E-05 | 3.29E-05 | 3.29E-05 | 1.63E-05 |
| 2328 | 257232.7 | 4085321 | 4.21E-05 | 6.08E-04 | 4.48E-04 | 4.48E-04 | 2.50E-04 | 6.38E-05 | 9.27E-05 | 7.00E-05 | 7.00E-05 | 3.85E-05 | 3.47E-05 | 5.02E-05 | 3.12E-05 | 3.12E-05 | 1.54E-05 |
| 2329 | 257222.8 | 4085299 | 3.92E-05 | 5.67E-04 | 4.18E-04 | 4.18E-04 | 2.33E-04 | 5.95E-05 | 8.64E-05 | 6.53E-05 | 6.53E-05 | 3.59E-05 | 3.23E-05 | 4.68E-05 | 2.90E-05 | 2.90E-05 | 1.44E-05 |
| 2330 | 257212.9 | 4085278 | 3.61E-05 | 5.22E-04 | 3.84E-04 | 3.84E-04 | 2.14E-04 | 5.47E-06 | 7.95E-05 | 6.00E-05 | 6.00E-05 | 3.30E-05 | 2.97E-06 | 4.30E-05 | 2.67E-05 | 2.67E-05 | 1.32E-05 |
| 2331 | 257203 | 4085256 | 3.28E-05 | 4.74E-04 | 3.50E-04 | 3.50E-04 | 1.95E-04 | 4.98E-06 | 7.22E-05 | 5.46E-05 | 5.46E-05 | 3.00E-05 | 2.70E-06 | 3.91E-05 | 2.43E-05 | 2.43E-05 | 1.20E-05 |
| 2332 | 257193.1 | 4085235 | 2.96E-05 | 4.28E-04 | 3.16E-04 | 3.16E-04 | 1.76E-04 | 4.49E-06 | 6.53E-05 | 4.93E-05 | 4.93E-05 | 2.71E-05 | 2.44E-05 | 3.53E-05 | 2.19E-05 | 2.19E-05 | 1.09E-05 |
| 2333 | 257183.2 | 4085213 | 2.67E-05 | 3.86E-04 | 2.84E-04 | 2.84E-04 | 1.59E-04 | 4.05E-06 | 5.88E-05 | 4.44E-05 | 4.44E-05 | 2.44E-05 | 2.20E-05 | 3.18E-05 | 1.98E-05 | 1.98E-05 | 9.78E-05 |
| 2334 | 257173.3 | 4085192 | 2.41E-05 | 3.48E-04 | 2.57E-04 | 2.57E-04 | 1.43E-04 | 3.66E-05 | 5.31E-05 | 4.01E-05 | 4.01E-05 | 2.20E-05 | 1.99E-06 | 2.87E-05 | 1.78E-05 | 1.78E-05 | 8.83E-06 |
| 2335 | 257580.9 | 4085555 | 5.34E-05 | 7.72E-04 | 5.69E-04 | 5.69E-04 | 3.17E-04 | 8.10E-05 | 1.18E-04 | 8.88E-05 | 8.88E-05 | 4.88E-05 | 4.40E-05 | 6.36E-05 | 3.95E-05 | 3.95E-05 | 1.96E-05 |
| 2336 | 257605.1 | 4085554 | 5.39E-05 | 7.80E-04 | 5.75E-04 | 5.75E-04 | 3.21E-04 | 8.19E-05 | 1.19E-04 | 8.98E-05 | 8.98E-05 | 4.94E-06 | 4.45E-06 | 6.43E-05 | 4.00E-05 | 4.00E-05 | 1.98E-05 |
| 2337 | 257629.4 | 4085553 | 5.44E-05 | 7.86E-04 | 5.80E-04 | 5.80E-04 | 3.23E-04 | 8.25E-05 | 1.20E-04 | 9.05E-05 | 9.05E-05 | 4.98E-06 | 4.48E-06 | 6.48E-05 | 4.03E-05 | 4.03E-05 | 1.99E-05 |
| 2338 | 257653.7 | 4085552 | 5.46E-05 | 7.90E-04 | 5.83E-04 | 5.83E-04 | 3.25E-04 | 8.29E-06 | 1.20E-04 | 9.10E-05 | 9.10E-05 | 5.00E-05 | 4.50E-06 | 6.51E-05 | 4.05E-05 | 4.05E-05 | 2.00E-05 |
| 2339 | 257678 | 4085551 | 5.47E-05 | 7.92E-04 | 5.84E-04 | 5.84E-04 | 3.25E-04 | 8.31E-06 | 1.21E-04 | 9.11E-05 | 9.11E-05 | 5.01E-05 | 4.51E-05 | 6.53E-05 | 4.05E-05 | 4.05E-05 | 2.01E-05 |
| 2340 | 257702.3 | 4085550 | 5.47E-05 | 7.91E-04 | 5.83E-04 | 5.83E-04 | 3.25E-04 | 8.30E-05 | 1.21E-04 | 9.10E-05 | 9.10E-05 | 5.01E-05 | 4.51E-06 | 6.52E-05 | 4.05E-05 | 4.05E-05 | 2.01E-05 |
| 2341 | 257726.6 | 4085549 | 5.45E-05 | 7.89E-04 | 5.81E-04 | 5.81E-04 | 3.24E-04 | 8.28E-05 | 1.20E-04 | 9.08E-05 | 9.08E-05 | 4.99E-05 | 4.50E-05 | 6.50E-05 | 4.04E-05 | 4.04E-05 | 2.00E-05 |
| 2342 | 257750.8 | 4085548 | 5.43E-05 | 7.85E-04 | 5.79E-04 | 5.79E-04 | 3.23E-04 | 8.24E-05 | 1.20E-04 | 9.04E-05 | 9.04E-05 | 4.97E-06 | 4.48E-05 | 6.47E-05 | 4.02E-05 | 4.02E-05 | 1.99E-05 |
| 2343 | 257775.1 | 4085547 | 5.40E-05 | 7.81E-04 | 5.76E-04 | 5.76E-04 | 3.21E-04 | 8.20E-06 | 1.19E-04 | 8.99E-05 | 8.99E-05 | 4.94E-05 | 4.45E-06 | 6.44E-05 | 4.00E-06 | 4.00E-05 | 1.98E-05 |
| 2344 | 257799.4 | 4085546 | 5.36E-05 | 7.76E-04 | 5.72E-04 | 5.72E-04 | 3.19E-04 | 8.14E-06 | 1.18E-04 | 8.93E-05 | 8.93E-05 | 4.91E-05 | 4.42E-05 | 6.39E-05 | 3.97E-05 | 3.97E-05 | 1.97E-05 |
| 2345 | 257823.7 | 4085544 | 5.32E-05 | 7.69E-04 | 5.67E-04 | 5.67E-04 | 3.16E-04 | 8.07E-05 | 1.17E-04 | 8.85E-05 | 8.85E-05 | 4.86E-05 | 4.38E-06 | 6.34E-05 | 3.94E-05 | 3.94E-05 | 1.95E-05 |
| 2346 | 257848 | 4085543 | 5.26E-05 | 7.61E-04 | 5.61E-04 | 5.61E-04 | 3.13E-04 | 7.98E-05 | 1.16E-04 | 8.75E-05 | 8.75E-05 | 4.81E-05 | 4.33E-06 | 6.27E-05 | 3.89E-05 | 3.89E-05 | 1.93E-05 |
| 2347 | 257872.2 | 4085542 | 5.19E-05 | 7.51E-04 | 5.53E-04 | 5.53E-04 | 3.08E-04 | 7.88E-05 | 1.14E-04 | 8.64E-05 | 8.64E-05 | 4.75E-05 | 4.28E-05 | 6.19E-05 | 3.84E-05 | 3.84E-05 | 1.90E-05 |
| 2348 | 257896.5 | 4085541 | 5.11E-05 | 7.39E-04 | 5.45E-04 | 5.45E-04 | 3.04E-04 | 7.76E-05 | 1.13E-04 | 8.51E-05 | 8.51E-05 | 4.68E-05 | 4.21E-05 | 6.09E-05 | 3.78E-05 | 3.78E-05 | 1.87E-05 |
| 2349 | 257920.8 | 4085540 | 5.02E-05 | 7.26E-04 | 5.35E-04 | 5.35E-04 | 2.98E-04 | 7.62E-06 | 1.11E-04 | 8.36E-05 | 8.36E-05 | 4.59E-05 | 4.14E-06 | 5.98E-05 | 3.72E-05 | 3.72E-05 | 1.84E-05 |
| 2350 | 257945.1 | 4085539 | 4.92E-05 | 7.11E-04 | 5.24E-04 | 5.24E-04 | 2.92E-04 | 7.46E-06 | 1.08E-04 | 8.19E-05 | 8.19E-05 | 4.50E-05 | 4.05E-05 | 5.86E-05 | 3.64E-05 | 3.64E-05 | 1.80E-05 |
| 2351 | 257969.4 | 4085538 | 4.81E-05 | 6.95E-04 | 5.12E-04 | 5.12E-04 | 2.85E-04 | 7.29E-06 | 1.06E-04 | 8.00E-05 | 8.00E-05 | 4.40E-05 | 3.96E-05 | 5.73E-05 | 3.56E-05 | 3.56E-05 | 1.76E-06 |
| 2352 | 257993.7 | 4085537 | 4.68E-05 | 6.77E-04 | 4.99E-04 | 4.99E-04 | 2.78E-04 | 7.10E-06 | 1.03E-04 | 7.79E-05 | 7.79E-05 | 4.28E-05 | 3.86E-05 | 5.58E-05 | 3.47E-05 | 3.47E-05 | 1.72E-05 |
| 2353 | 258017.9 | 4085536 | 4.55E-05 | 6.57E-04 | 4.85E-04 | 4.85E-04 | 2.70E-04 | 6.90E-06 | 1.00E-04 | 7.57E-05 | 7.57E-05 | 4.16E-05 | 3.75E-05 | 5.42E-05 | 3.37E-05 | 3.37E-05 | 1.67E-05 |
| 2354 | 258042.2 | 4085535 | 4.40E-05 | 6.36E-04 | 4.69E-04 | 4.69E-04 | 2.61E-04 | 6.67E-06 | 9.69E-05 | 7.32E-05 | 7.32E-05 | 4.02E-05 | 3.62E-05 | 5.24E-05 | 3.26E-05 | 3.26E-05 | 1.61E-05 |
| 2355 | 258066.5 | 4085534 | 4.24E-05 | 6.13E-04 | 4.52E-04 | 4.52E-04 | 2.52E-04 | 6.43E-06 | 9.34E-06 | 7.05E-05 | 7.05E-05 | 3.88E-05 | 3.49E-06 | 5.05E-05 | 3.14E-05 | 3.14E-05 | 1.55E-05 |
| 2356 | 258090.8 | 4085533 | 4.07E-05 | 5.89E-04 | 4.34E-04 | 4.34E-04 | 2.42E-04 | 6.18E-06 | 8.97E-05 | 6.78E-05 | 6.78E-05 | 3.73E-05 | 3.36E-06 | 4.85E-05 | 3.02E-05 | 3.02E-05 | 1.49E-05 |
| 2357 | 258115.1 | 4085532 | 3.90E-05 | 5.64E-04 | 4.16E-04 | 4.16E-04 | 2.32E-04 | 5.92E-05 | 8.59E-05 | 6.49E-05 | 6.49E-05 | 3.57E-05 | 3.21E-05 | 4.65E-05 | 2.89E-05 | 2.89E-05 | 1.43E-05 |
| 2358 | 258139.3 | 4085530 | 3.73E-05 | 5.39E-04 | 3.97E-04 | 3.97E-04 | 2.22E-04 | 5.66E-05 | 8.22E-05 | 6.21E-05 | 6.21E-05 | 3.41E-05 | 3.07E-06 | 4.44E-05 | 2.76E-05 | 2.76E-05 | 1.37E-05 |
| 2359 | 258163.6 | 4085529 | 3.56E-05 | 5.15E-04 | 3.80E-04 | 3.80E-04 | 2.12E-04 | 5.40E-06 | 7.84E-05 | 5.93E-05 | 5.93E-05 | 3.26E-05 | 2.93E-06 | 4.24E-05 | 2.64E-05 | 2.64E-05 | 1.30E-05 |
| 2360 | 258187.9 | 4085528 | 3.40E-05 | 4.91E-04 | 3.62E-04 | 3.62E-04 | 2.02E-04 | 5.15E-06 | 7.48E-05 | 5.65E-05 | 5.65E-05 | 3.11E-05 | 2.80E-06 | 4.05E-05 | 2.51E-05 | 2.51E-05 | 1.24E-05 |
| 2361 | 258212.2 | 4085527 | 3.23E-05 | 4.68E-04 | 3.45E-04 | 3.45E-04 | 1.92E-04 | 4.91E-06 | 7.13E-06 | 5.38E-05 | 5.38E-05 | 2.96E-05 | 2.67E-05 | 3.86E-05 | 2.40E-05 | 2.40E-05 | 1.19E-05 |
| 2362 | 258236.5 | 4085526 | 3.07E-05 | 4.45E-04 | 3.28E-04 | 3.28E-04 | 1.83E-04 | 4.67E-06 | 6.77E-05 | 5.12E-05 | 5.12E-05 | 2.81E-05 | 2.53E-05 | 3.66E-05 | 2.28E-05 | 2.28E-05 | 1.13E-06 |
| 2363 | 258260.8 | 4085525 | 2.91E-05 | 4.21E-04 | 3.10E-04 | 3.10E-04 | 1.73E-04 | 4.42E-06 | 6.42E-05 | 4.85E-05 | 4.85E-05 | 2.66E-05 | 2.40E-06 | 3.47E-05 | 2.16E-05 | 2.16E-05 | 1.07E-05 |
| 2364 | 258285 | 4085524 | 2.75E-05 | 3.98E-04 | 2.93E-04 | 2.93E-04 | 1.64E-04 | 4.18E-06 | 6.06E-05 | 4.58E-05 | 4.58E-05 | 2.52E-05 | 2.27E-06 | 3.28E-06 | 2.04E-05 | 2.04E-05 | 1.01E-05 |
| 2365 | 258309.3 | 4085523 | 2.59E-05 | 3.75E-04 | 2.76E-04 | 2.76E-04 | 1.54E-04 | 3.94E-06 | 5.71E-05 | 4.32E-05 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2160 | 258104 | 4085282 | 1.59E-04 | 2.30E-03 | 1.69E-03 | 1.69E-03 | 9.43E-04 | 2.41E-06 | 3.50E-04 | 2.64E-04 | 2.64E-04 | 1.45E-04 | 1.31E-05 | 1.89E-04 | 1.18E-04 | 1.18E-04 | 5.82E-05 |
| 2161 | 258128.3 | 4085281 | 1.53E-04 | 2.21E-03 | 1.63E-03 | 1.63E-03 | 9.08E-04 | 2.32E-05 | 3.37E-04 | 2.54E-04 | 2.54E-04 | 1.40E-04 | 1.26E-05 | 1.82E-04 | 1.13E-04 | 1.13E-04 | 5.60E-05 |
| 2162 | 258152.6 | 4085280 | 1.46E-04 | 2.11E-03 | 1.56E-03 | 1.56E-03 | 8.69E-04 | 2.22E-05 | 3.22E-04 | 2.43E-04 | 2.43E-04 | 1.34E-04 | 1.20E-05 | 1.74E-04 | 1.08E-04 | 1.08E-04 | 5.36E-05 |
| 2163 | 258176.8 | 4085279 | 1.39E-04 | 2.01E-03 | 1.48E-03 | 1.48E-03 | 8.24E-04 | 2.10E-05 | 3.06E-04 | 2.31E-04 | 2.31E-04 | 1.27E-04 | 1.14E-05 | 1.65E-04 | 1.03E-04 | 1.03E-04 | 5.08E-05 |
| 2164 | 258201.1 | 4085277 | 1.30E-04 | 1.89E-03 | 1.39E-03 | 1.39E-03 | 7.75E-04 | 1.98E-05 | 2.87E-04 | 2.17E-04 | 2.17E-04 | 1.19E-04 | 1.08E-05 | 1.56E-04 | 9.66E-05 | 9.66E-05 | 4.78E-05 |
| 2165 | 258225.4 | 4085276 | 1.21E-04 | 1.76E-03 | 1.29E-03 | 1.29E-03 | 7.22E-04 | 1.84E-05 | 2.68E-04 | 2.02E-04 | 2.02E-04 | 1.11E-04 | 1.00E-05 | 1.45E-04 | 8.99E-05 | 8.99E-05 | 4.45E-05 |
| 2166 | 258249.7 | 4085275 | 1.12E-04 | 1.62E-03 | 1.19E-03 | 1.19E-03 | 6.65E-04 | 1.70E-05 | 2.47E-04 | 1.85E-04 | 1.86E-04 | 1.02E-04 | 9.22E-06 | 1.33E-04 | 8.28E-05 | 8.28E-05 | 4.10E-06 |
| 2167 | 258274 | 4085274 | 1.02E-04 | 1.48E-03 | 1.09E-03 | 1.09E-03 | 6.06E-04 | 1.55E-05 | 2.25E-04 | 1.70E-04 | 1.70E-04 | 9.33E-05 | 8.41E-06 | 1.22E-04 | 7.55E-05 | 7.55E-05 | 3.74E-06 |
| 2168 | 258298.3 | 4085273 | 9.21E-05 | 1.33E-03 | 9.82E-04 | 9.82E-04 | 5.47E-04 | 1.40E-05 | 2.03E-04 | 1.53E-04 | 1.53E-04 | 8.43E-05 | 7.59E-06 | 1.10E-04 | 6.82E-05 | 6.82E-05 | 3.38E-05 |
| 2169 | 258322.5 | 4085272 | 8.24E-05 | 1.19E-03 | 8.76E-04 | 8.78E-04 | 4.90E-04 | 1.25E-05 | 1.82E-04 | 1.37E-04 | 1.37E-04 | 7.54E-05 | 6.79E-06 | 9.82E-05 | 6.10E-05 | 6.10E-05 | 3.02E-05 |
| 2170 | 258346.8 | 4085271 | 7.31E-05 | 1.06E-03 | 7.80E-04 | 7.80E-04 | 4.35E-04 | 1.11E-05 | 1.61E-04 | 1.22E-04 | 1.22E-04 | 6.69E-05 | 6.03E-06 | 8.72E-05 | 5.42E-05 | 5.42E-05 | 2.68E-05 |
| 2171 | 258371.1 | 4085270 | 6.47E-05 | 9.36E-04 | 6.90E-04 | 6.90E-04 | 3.85E-04 | 9.82E-06 | 1.43E-04 | 1.08E-04 | 1.08E-04 | 5.92E-05 | 5.33E-06 | 7.71E-05 | 4.79E-05 | 4.79E-05 | 2.37E-05 |
| 2172 | 257551.4 | 4085348 | 1.18E-04 | 1.71E-03 | 1.26E-03 | 1.26E-03 | 7.02E-04 | 1.79E-05 | 2.60E-04 | 1.96E-04 | 1.96E-04 | 1.08E-04 | 9.73E-06 | 1.41E-04 | 8.74E-05 | 8.74E-05 | 4.33E-05 |
| 2173 | 257510.1 | 4085333 | 1.16E-04 | 1.67E-03 | 1.23E-03 | 1.23E-03 | 6.87E-04 | 1.75E-05 | 2.55E-04 | 1.92E-04 | 1.92E-04 | 1.06E-04 | 9.53E-06 | 1.38E-04 | 8.56E-05 | 8.56E-05 | 4.24E-05 |
| 2174 | 257468.9 | 4085318 | 1.09E-04 | 1.57E-03 | 1.16E-03 | 1.16E-03 | 6.47E-04 | 1.65E-05 | 2.40E-04 | 1.81E-04 | 1.81E-04 | 9.96E-05 | 8.97E-05 | 1.30E-04 | 8.06E-05 | 8.06E-05 | 3.99E-05 |
| 2175 | 257418.4 | 4085283 | 9.83E-05 | 1.42E-03 | 1.05E-03 | 1.05E-03 | 5.84E-04 | 1.49E-05 | 2.17E-04 | 1.64E-04 | 1.64E-04 | 8.99E-05 | 8.10E-05 | 1.17E-04 | 7.28E-05 | 7.28E-05 | 3.60E-05 |
| 2176 | 257400 | 4085243 | 9.41E-05 | 1.36E-03 | 1.00E-03 | 1.00E-03 | 5.59E-04 | 1.43E-05 | 2.07E-04 | 1.57E-04 | 1.57E-04 | 8.61E-05 | 7.76E-06 | 1.12E-04 | 6.97E-05 | 6.97E-05 | 3.45E-05 |
| 2177 | 257381.7 | 4085203 | 8.19E-05 | 1.18E-03 | 8.73E-04 | 8.73E-04 | 4.87E-04 | 1.24E-05 | 1.80E-04 | 1.36E-04 | 1.36E-04 | 7.49E-05 | 6.75E-06 | 9.76E-05 | 6.06E-05 | 6.06E-05 | 3.00E-05 |
| 2178 | 257596.3 | 4085354 | 1.22E-04 | 1.77E-03 | 1.30E-03 | 1.30E-03 | 7.27E-04 | 1.86E-05 | 2.70E-04 | 2.04E-04 | 2.04E-04 | 1.12E-04 | 1.01E-05 | 1.48E-04 | 9.06E-05 | 9.06E-05 | 4.49E-05 |
| 2179 | 257620.6 | 4085353 | 1.26E-04 | 1.82E-03 | 1.35E-03 | 1.35E-03 | 7.50E-04 | 1.91E-05 | 2.78E-04 | 2.10E-04 | 2.10E-04 | 1.15E-04 | 1.04E-05 | 1.50E-04 | 9.34E-05 | 9.34E-05 | 4.62E-05 |
| 2180 | 257644.9 | 4085352 | 1.29E-04 | 1.87E-03 | 1.38E-03 | 1.38E-03 | 7.68E-04 | 1.96E-05 | 2.85E-04 | 2.15E-04 | 2.15E-04 | 1.18E-04 | 1.07E-05 | 1.54E-04 | 9.57E-05 | 9.57E-05 | 4.74E-05 |
| 2181 | 257669.1 | 4085351 | 1.32E-04 | 1.91E-03 | 1.41E-03 | 1.41E-03 | 7.84E-04 | 2.00E-05 | 2.91E-04 | 2.20E-04 | 2.20E-04 | 1.21E-04 | 1.09E-05 | 1.57E-04 | 9.77E-05 | 9.77E-05 | 4.84E-05 |
| 2182 | 257693.4 | 4085350 | 1.34E-04 | 1.94E-03 | 1.43E-03 | 1.43E-03 | 7.97E-04 | 2.03E-05 | 2.95E-04 | 2.23E-04 | 2.23E-04 | 1.23E-04 | 1.10E-05 | 1.60E-04 | 9.93E-05 | 9.93E-05 | 4.91E-05 |
| 2183 | 257717.7 | 4085349 | 1.36E-04 | 1.96E-03 | 1.45E-03 | 1.45E-03 | 8.07E-04 | 2.06E-05 | 2.99E-04 | 2.26E-04 | 2.26E-04 | 1.24E-04 | 1.12E-05 | 1.62E-04 | 1.01E-04 | 1.01E-04 | 4.98E-05 |
| 2184 | 257742 | 4085348 | 1.37E-04 | 1.98E-03 | 1.46E-03 | 1.46E-03 | 8.12E-04 | 2.07E-05 | 3.01E-04 | 2.27E-04 | 2.27E-04 | 1.25E-04 | 1.13E-05 | 1.63E-04 | 1.01E-04 | 1.01E-04 | 5.01E-05 |
| 2185 | 257766.3 | 4085347 | 1.37E-04 | 1.98E-03 | 1.46E-03 | 1.46E-03 | 8.13E-04 | 2.08E-05 | 3.01E-04 | 2.28E-04 | 2.28E-04 | 1.25E-04 | 1.13E-05 | 1.63E-04 | 1.01E-04 | 1.01E-04 | 5.01E-05 |
| 2186 | 257790.6 | 4085346 | 1.37E-04 | 1.98E-03 | 1.46E-03 | 1.46E-03 | 8.14E-04 | 2.08E-05 | 3.02E-04 | 2.28E-04 | 2.28E-04 | 1.25E-04 | 1.13E-05 | 1.63E-04 | 1.01E-04 | 1.01E-04 | 5.02E-05 |
| 2187 | 257814.8 | 4085345 | 1.37E-04 | 1.98E-03 | 1.46E-03 | 1.46E-03 | 8.14E-04 | 2.08E-05 | 3.02E-04 | 2.28E-04 | 2.28E-04 | 1.25E-04 | 1.13E-05 | 1.63E-04 | 1.01E-04 | 1.01E-04 | 5.02E-05 |
| 2188 | 257839.1 | 4085344 | 1.37E-04 | 1.98E-03 | 1.46E-03 | 1.46E-03 | 8.12E-04 | 2.07E-05 | 3.01E-04 | 2.27E-04 | 2.27E-04 | 1.25E-04 | 1.13E-05 | 1.63E-04 | 1.01E-04 | 1.01E-04 | 5.01E-05 |
| 2189 | 257863.4 | 4085343 | 1.36E-04 | 1.96E-03 | 1.45E-03 | 1.45E-03 | 8.07E-04 | 2.06E-05 | 2.99E-04 | 2.26E-04 | 2.26E-04 | 1.24E-04 | 1.12E-05 | 1.62E-04 | 1.01E-04 | 1.01E-04 | 4.98E-05 |
| 2190 | 257887.7 | 4085341 | 1.35E-04 | 1.95E-03 | 1.44E-03 | 1.44E-03 | 8.01E-04 | 2.04E-05 | 2.97E-04 | 2.24E-04 | 2.24E-04 | 1.23E-04 | 1.11E-05 | 1.61E-04 | 9.98E-05 | 9.98E-05 | 4.94E-05 |
| 2191 | 257912 | 4085340 | 1.33E-04 | 1.93E-03 | 1.42E-03 | 1.42E-03 | 7.92E-04 | 2.02E-05 | 2.94E-04 | 2.22E-04 | 2.22E-04 | 1.22E-04 | 1.10E-05 | 1.59E-04 | 9.87E-05 | 9.87E-05 | 4.89E-05 |
| 2192 | 257936.2 | 4085339 | 1.32E-04 | 1.90E-03 | 1.40E-03 | 1.40E-03 | 7.82E-04 | 2.00E-05 | 2.90E-04 | 2.19E-04 | 2.19E-04 | 1.20E-04 | 1.08E-05 | 1.57E-04 | 9.74E-05 | 9.74E-05 | 4.82E-05 |
| 2193 | 257960.5 | 4085338 | 1.30E-04 | 1.87E-03 | 1.38E-03 | 1.38E-03 | 7.70E-04 | 1.97E-05 | 2.85E-04 | 2.16E-04 | 2.16E-04 | 1.19E-04 | 1.07E-05 | 1.54E-04 | 9.59E-05 | 9.59E-05 | 4.75E-05 |
| 2194 | 257984.8 | 4085337 | 1.27E-04 | 1.84E-03 | 1.36E-03 | 1.36E-03 | 7.56E-04 | 1.93E-05 | 2.80E-04 | 2.12E-04 | 2.12E-04 | 1.16E-04 | 1.09E-05 | 1.52E-04 | 9.42E-05 | 9.42E-05 | 4.66E-05 |
| 2195 | 258009.1 | 4085336 | 1.24E-04 | 1.80E-03 | 1.33E-03 | 1.33E-03 | 7.40E-04 | 1.89E-05 | 2.74E-04 | 2.07E-04 | 2.07E-04 | 1.14E-04 | 1.03E-05 | 1.48E-04 | 9.22E-05 | 9.22E-05 | 4.56E-05 |
| 2196 | 258033.4 | 4085335 | 1.21E-04 | 1.76E-03 | 1.29E-03 | 1.29E-03 | 7.22E-04 | 1.84E-05 | 2.68E-04 | 2.02E-04 | 2.02E-04 | 1.11E-04 | 1.00E-05 | 1.45E-04 | 8.99E-05 | 8.99E-05 | 4.45E-05 |
| 2197 | 258057.7 | 4085334 | 1.18E-04 | 1.71E-03 | 1.26E-03 | 1.26E-03 | 7.02E-04 | 1.79E-05 | 2.60E-04 | 1.97E-04 | 1.97E-04 | 1.08E-04 | 9.73E-06 | 1.41E-04 | 8.74E-05 | 8.74E-05 | 4.33E-09 |
| 2198 | 258081.9 | 4085333 | 1.14E-04 | 1.65E-03 | 1.22E-03 | 1.22E-03 | 6.80E-04 | 1.74E-05 | 2.52E-04 | 1.90E-04 | 1.90E-04 | 1.05E-04 | 9.42E-06 | 1.36E-04 | 8.47E-05 | 8.47E-05 | 4.19E-05 |
| 2199 | 258106.2 | 4085332 | 1.10E-04 | 1.59E-03 | 1.17E-03 | 1.17E-03 | 6.55E-04 | 1.67E-05 | 2.43E-04 | 1.83E-04 | 1.83E-04 | 1.01E-04 | 9.08E-06 | 1.31E-04 | 8.16E-05 | 8.16E-05 | 4.04E-05 |
| 2200 | 258130.5 | 4085331 | 1.06E-04 | 1.53E-03 | 1.13E-03 | 1.13E-03 | 6.28E-04 | 1.60E-05 | 2.33E-04 | 1.76E-04 | 1.76E-04 | 9.67E-05 | 8.71E-06 | 1.26E-04 | 7.82E-05 | 7.82E-05 | 3.87E-05 |
| 2201 | 258154.8 | 4085330 | 1.01E-04 | 1.46E-03 | 1.07E-03 | 1.07E-03 | 5.98E-04 | 1.53E-05 | 2.22E-04 | 1.68E-04 | 1.68E-04 | 9.21E-05 | 8.30E-06 | 1.20E-04 | 7.45E-05 | 7.45E-05 | 3.69E-05 |
| 2202 | 258179.1 | 4085329 | 9.52E-05 | 1.38E-03 | 1.02E-03 | 1.02E-03 | 5.66E-04 | 1.45E-05 | 2.10E-04 | 1.58E-04 | 1.58E-04 | 8.71E-05 | 7.85E-06 | 1.14E-04 | 7.05E-05 | 7.05E-05 | 3.49E-05 |
| 2203 | 258203.3 | 4085327 | 8.94E-05 | 1.29E-03 | 9.53E-04 | 9.53E-04 | 5.31E-04 | 1.36E-05 | 1.97E-04 | 1.49E-04 | 1.49E-04 | 8.18E-05 | 7.37E-06 | 1.07E-04 | 6.62E-05 | 6.62E-05 | 3.28E-05 |
| 2204 | 258227.6 | 4085326 | 8.33E-05 | 1.21E-03 | 8.88E-04 | 8.88E-04 | 4.95E-04 | 1.26E-05 | 1.84E-04 | 1.39E-04 | 1.39E-04 | 7.63E-05 | 6.87E-06 | 9.93E-05 | 6.17E-05 | 6.17E-05 | 3.05E-05 |
| 2205 | 258251.9 | 4085325 | 7.72E-05 | 1.12E-03 | 8.23E-04 | 8.23E-04 | 4.59E-04 | 1.17E-05 | 1.70E-04 | 1.28E-04 | 1.28E-04 | 7.06E-05 | 6.36E-06 | 9.20E-05 | 5.72E-05 | 5.72E-05 | 2.83E-05 |
| 2206 | 258276.2 | 4085324 | 7.11E-05 | 1.03E-03 | 7.58E-04 | 7.58E-04 | 4.22E-04 | 1.08E-05 | 1.57E-04 | 1.18E-04 | 1.18E-04 | 6.50E-05 | 5.85E-06 | 8.47E-05 | 5.26E-05 | 5.26E-05 | 2.61E-05 |
| 2207 | 258300.5 | 4085323 | 6.51E-05 | 9.41E-04 | 6.94E-04 | 6.94E-04 | 3.87E-04 | 9.88E-06 | 1.43E-04 | 1.08E-04 | 1.08E-04 | 5.95E-05 | 5.36E-06 | 7.76E-05 | 4.82E-05 | 4.82E-05 | 2.39E-05 |
| 2208 | 258324.8 | 4085322 | 5.92E-05 | 8.56E-04 | 6.31E-04 | 6.31E-04 | 3.52E-04 | 8.98E-06 | 1.30E-04 | 9.85E-05 | 9.85E-05 | 5.41E-05 | 4.88E-06 | 7.05E-05 | 4.38E-05 | 4.38E-05 | 2.17E-05 |
| 2209 | 258349 | 4085321 | 5.35E-05 | 7.74E-04 | 5.71E-04 | 5.71E-04 | 3.18E-04 | 8.13E-06 | 1.18E-04 | 8.91E-05 | 8.91E-05 | 4.90E-05 | 4.41E-06 | 6.38E-05 | 3.97E-05 | 3.97E-05 | 1.96E-05 |
| 2210 | 258373.3 | 4085320 | 4.84E-05 | 7.00E-04 | 5.16E-04 | 5.16E-04 | 2.88E-04 | 7.34E-05 | 1.07E-04 | 8.05E-05 | 8.05E-05 | 4.43E-05 | 3.99E-06 | 5.77E-05 | 3.58E-05 | 3.58E-05 | 1.77E-05 |
| 2211 | 257551.7 | 4085397 | 9.48E-05 | 1.37E-03 | 1.01E-03 | 1.01E-03 | 5.63E-04 | 1.44E-05 | 2.09E-04 | 1.58E-04 | 1.58E-04 | 8.67E-05 | 7.81E-06 | 1.13E-04 | 7.02E-05 | 7.02E-05 | 3.47E-05 |
| 2212 | 257529.1 | 4085389 | 9.48E-05 | 1.37E-03 | 1.01E-03 | 1.01E-03 | 5.63E-04 | 1.44E-05 | 2.09E-04 | 1.58E-04 | 1.58E-04 | 8.67E-05 | 7.81E-06 | 1.13E-04 | 7.02E-05 | 7.02E-05 | 3.47E-05 |
| 2213 | 257506.5 | 4085381 | 9.40E-05 | 1.36E-03 | 1.00E-03 | 1.00E-03 | 5.59E-04 | 1.43E-05 | 2.07E-04 | 1.57E-04 | 1.57E-04 | 8.61E-05 | 7.75E-06 | 1.12E-04 | 6.96E-05 | 6.96E-05 | 3.45E-05 |
| 2214 | 257484 | 4085372 | 9.26E-05 | 1.34E-03 | 9.87E-04 | 9.87E-04 | 5.50E-04 | 1.41E-05 | 2.04E-04 | 1.54E-04 | 1.54E-04 | 8.47E-05 | 7.63E-06 | 1.10E-04 | 6.86E-05 | 6.86E-05 | 3.39E-05 |
| 2215 | 257461.4 | 4085364 | 9.03E-05 | 1.31E-03 | 9.63E-04 | 9.63E-04 | 5.37E-04 | 1.37E-05 | 1.99E-04 | 1.50E-04 | 1.50E-04 | 8.26E-05 | 7.44E-06 | 1.08E-04 | 6.69E-05 | 6.69E-05 | 3.31E-05 |
| 2216 | 257438.8 | 4085356 | 8.71E-05 | 1.26E-03 | 9.28E-04 | 9.28E-04 | 5.18E-04 | 1.32E-05 | 1.92E-04 | 1.45E-04 | 1.45E-04 | 7.97E-05 | 7.18E-06 | 1.04E-04 | 6.45E-05 | 6.45E-05 | 3.19E-05 |
| 2217 | 257416.3 | 4085348 | 8.30E-05 | 1.20E-03 | 8.85E-04 | 8.85E-04 | 4.93E-04 | 1.26E-05 | 1.83E-04 | 1.38E-04 | 1.38E-04 | 7.59E-05 | 6.84E-06 | 9.89E-05 | 6.15E-05 | 6.15E-05 | 3.04E-05 |
| 2218 | 257383.7 | 4085318 | 7.87E-05 | 1.14E-03 | 8.39E-04 | 8.39E-04 | 4.68E-04 | 1.19E-05 | 1.73E-04 | 1.31E-04 | 1.31E-04 | 7.20E-05 | 6.49E-06 | 9.38E-05 | 5.83E-05 | 5.83E-05 | 2.88E-05 |
| 2219 | 257373.6 | 4085296 | 7.79E-05 | 1.13E-03 | 8.30E-04 | 8.30E-04 | 4.63E-04 | 1.18E-05 | 1.72E-04 | 1.30E-04 | 1.30E-04 | 7.13E-05 | 6.42E-06 | 9.28E-05 | 5.77E-05 | 5.77E-05 | 2.85E-05 |
| 2220 | 257363.6 | 4085274 | 7.55E-05 | 1.09E-03 | 8.05E-04 | 8.05E-04 | 4.49E-04 | 1.15E-05 | 1.66E-04 | 1.26E-04 | 1.26E-04 | 6.91E-05 | 6.23E-06 | 9.00E-05 | 5.59E-05 | 5.59E-05 | 2.77E-05 |
| 2221 | 257353.5 | 4085252 | 7.15E-05 | 1.03E-03 | 7.62E-04 | 7.62E-04 | 4.25E-04 | 1.09E-05 | 1.58E-04 | 1.19E-04 | 1.19E-04 | 6.54E-05 | 5.89E-06 | 8.53E-05 | 5.30E-05 | 5.30E-05 | 2.62E-05 |
| 2222 | 257343.5 | 4085230 | 6.61E-05 | 9.56E-04 | 7.05E-04 | 7.05E-04 | 3.93E-04 | 1.00E-05 | 1.46E-04 | 1.10E-04 | 1.10E-04 | 6.05E-05 | 5.45E-06 | 7.88E-05 | 4.90E-05 | 4.90E-05 | 2.42E-05 |
| 2223 | 257333.4 | 4085209 | 5.98E-05 | 8.66E-04 | 6.38E-04 | 6.38E-04 | 3.56E-04 | 9.08E-05 | 1.32E-04 | 9.96E-05 | 9.96E-05 | 5.48E-05 | 4.93E-06 | 7.13E-05 | 4.43E-05 | 4.43E-05 | 2.19E-05 |
| 2224 | 257323.4 | 4085187 | 5.33E-05 | 7.71E-04 | 5.68E-04 | 5.68E-04 | 3.17E-04 | 8.09E-06 | 1.17E-04 | 8.87E-05 | 8.87E-05 | 4.88E-05 | 4.39E-06 | 6.35E-05 | 3.95E-05 | 3.95E-05 | 1.95E-05 |
| 2225 | 257574.2 | 4085405 | 9.41E-05 | 1.36E-03 | 1.00E-03 | 1.00E-03 | 5.59E-04 | 1.43E-05 | 2.07E-04 | 1.57E-04 | 1.57E-04 | 8.61E-05 | 7.76E-06 | 1.12E-04 | 6.97E-05 | 6.97E-05 | 3.45E-05 |
| 2226 | 257598.5 | 4085404 | 9.69E-05 | 1.40E-03 | 1.03E-03 | 1.03E-03 | 5.76E-04 | 1.47E-05 | 2.13E-04 | 1.61E-04 | 1.61E-04 | 8.86E-05 | 7.98E-06 | 1.15E-04 | 7.17E-05 | 7.17E-05 | 3.55E-05 |
| 2227 | 257622.8 | 4085403 | 9.92E-05 | 1.43E-03 | 1.06E-03 | 1.06E-03 | 5.89E-04 | 1.50E-05 | 2.18E-04 | 1.65E-04 | 1.65E-04 | 9.07E-06 | 8.17E-06 | 1.18E-04 | 7.34E-05 | 7.34E-05 | 3.63E-05 |
| 2228 | 257647.1 | 4085402 | 1.01E-04 | 1.46E-03 | 1.08E-03 | 1.08E-03 | 6.00E-04 | 1.53E-05 | 2.22E-04 | 1.68E-04 | 1.68E-04 | 9.24E-05 | 8.32E-06 | 1.20E-04 | 7.48E-05 | 7.48E-05 | 3.70E-05 |
| 2229 | 257671.4 | 4085401 | 1.02E-04 | 1.48E-03 | 1.09E-03 | 1.09E-03 | 6.09E-04 | 1.55E-05 | 2.26E-04 | 1.70E-04 | 1.70E-04 | 9.37E-05 | 8.44E-06 | 1.22E-04 | 7.59E-05 | 7.59E-05 | 3.75E-05 |
| 2230 | 257695.6 | 4085400 | 1.03E-04 | 1.50E-03 | 1.10E-03 | 1.10E-03 | 6.15E-04 | 1.57E-05 | 2.28E-04 | 1.72E-04 | 1.72E-04 | 9.47E-05 | 8.53E-06 | 1.23E-04 | 7.66E-05 | 7.66E-05 | 3.79E-05 |
| 2231 | 257719.9 | 4085399 | 1.04E-04 | 1.50E-03 | 1.11E-03 | 1.11E-03 | 6.17E-04 | 1.57E-05 | 2.29E-04 | 1.73E-04 | 1.73E-04 | 9.50E-05 | 8.55E-06 | 1.24E-04 | 7.68E-05 | 7.68E-05 | 3.80E-05 |
| 2232 | 257744.2 | 4085398 | 1.04E-04 | 1.51E-03 | 1.11E-03 | 1.11E-03 | 6.20E-04 | 1.58E-05 | 2.30E-04 | 1.74E-04 | 1.74E-04 | 9.55E-05 | 8.60E-06 | 1.24E-04 | 7.73E-05 | 7.73E-05 | 3.82E-05 |
| 2233 | 257768.5 | 4085397 | 1.05E-04 | 1.51E-03 | 1.11E-03 | 1.11E-03 | 6.22E-04 | 1.59E-05 | 2.30E-04 | 1.74E-04 | 1.74E-04 | 9.57E-05 | 8.62E-06 | 1.25E-04 | 7.74E-05 | 7.74E-05 | 3.83E-05 |
| 2234 | 257792.8 | 4085396 | 1.05E-04 | 1.51E-03 | 1.11E-03 | 1.11E-03 | 6.21E-04 | 1.59E-06 | 2.30E-04 | 1.74E-04 | 1.74E-04 | 9.56E-05 | 8.61E-06 | 1.25E-04 | 7.74E-05 | 7.74E-05 | 3.83E-05 |
| 2235 | 257817 | 4085395 | 1.04E-04 | 1.51E-03 | 1.11E-03 | 1.11E-03 | 6.19E-04 | 1.58E-05 | 2.29E-04 | 1.73E-04 | 1.73E-04 | 9.53E-05 | 8.58E-06 | 1.24E-04 | 7.71E-05 | 7.71E-05 | 3.82E-05 |
| 2236 | 257841.3 | 4085394 | 1.03E-04 | 1.50E-03 | 1.10E-03 | 1.10E-03 | 6.15E-04 | 1.57E-05 | 2.28E-04 | 1.72E-04 | 1.72E-04 | 9.47E-05 | 8.53E-06 | 1.23E-04 | 7.66E-05 | 7.66E-05 | 3.79E-05 |
| 2237 | 257865.6 | 4085392 | 1.03E-04 | 1.48E-03 | 1.09E-03 | 1.09E-03 | 6.09E-04 | 1.56E-05 | 2.26E-04 | 1.71E-04 | 1.71E-04 | 9.38E-05 | 8.45E-06 | 1.22E-04 | 7.59E-05 | 7.59E-05 | 3.76E-05 |
| 2238 | 257889.9 | 4085391 | 1.01E-04 | 1.47E-03 | 1.08E-03 | 1.08E-03 | 6.03E-04 | 1.54E-05 | 2.23E-04 | 1.69E-04 | 1.69E-04 | 9.28E-05 | 8.36E-06 | 1.21E-04 | 7.51E-05 | 7.51E-05 | 3.72E-05 |
| 2239 | 257914.2 | 4085390 | 1.00E-04 | 1.45E-03 | 1.07E-03 | 1.07E-03 | 5.94E-04 | 1.52E-05 | 2.20E-04 | 1.66E-04 | 1.66E-04 | 9.15E-05 | 8.24E-06 | 1.19E-04 | 7.40E-05 | 7.40E-05 | 3.66E-05 |
| 2240 | 257938.5 | 4085389 | 9.83E-05 | 1.42E-03 | 1.05E-03 | 1.05E-03 | 5.84E-04 | 1.49E-06 | 2.17E-04 | 1.64E-04 | 1.64E-04 | 9.00E-05 | 8.11E-06 | 1.17E-04 | 7.28E-05 | 7.28E-05 | 3.60E-05 |
| 2241 | 257962.7 | 4085388 | 9.65E-05 | 1.40E-03 | 1.03E-03 | 1.03E-03 | 5.74E-04 | 1.46E-05 | 2.13E-04 | 1.61E-04 | 1.61E-04 | 8.83E-05 | 7.95E-06 | 1.15E-04 | 7.15E-05 | 7.15E-05 | 3.54E-05 |
| 2242 | 257987 | 4085387 | 9.44E-05 | 1.37E-03 | 1.01E-03 | 1.01E-03 | 5.61E-04 | 1.43E-05 | 2.08E-04 | 1.57E-04 | 1.57E-04 | 8.64E-05 | 7.78E-06 | 1.13E-04 | 6.99E-05 | 6.99E-05 | 3.46E-05 |
| 2243 | 258011.3 | 4085386 | 9.22E-05 | 1.33E-03 | 9.82E-04 | 9.82E-04 | 5.48E-04 | 1.40E-05 | 2.03E-04 | 1.53E-04 | 1.53E-04 | 8.43E-05 | 7.60E-06 | 1.10E-04 | 6.82E-05 | 6.82E-05 | 3.38E-05 |
| 2244 | 258035.6 | 4085385 | 8.97E-05 | 1.30E-03 | 9.56E-04 | 9.56E-04 | 5.33E-04 | 1.36E-05 | 1.98E-04 | 1.49E-04 | 1.49E-04 | 8.20E-05 | 7.39E-06 | 1.07E-04 | 6.64E-05 | 6.64E-05 | 3.29E-05 |
| 2245 | 258059.9 | 4085384 | 8.69E-05 | 1.26E-03 | 9.27E-04 | 9.27E-04 | 5.17E-04 | 1.32E-05 | 1.91E-04 | 1.45E-04 | 1.45E-04 | 7.95E-05 | 7.16E-06 | 1.04E-04 | 6.44E-05 | 6.44E-05 | 3.19E-05 |
| 2246 | 258084.1 | 4085383 | 8.39E-05 | 1.21E-03 | 8.95E-04 | 8.95E-04 | 4.99E-04 | 1.27E-06 | 1.85E-04 | 1.40E-04 | 1.40E-04 | 7.68E-05 | 6.92E-06 | 1.00E-04 | 6.22E-05 | 6.22E-05 | 3.08E-05 |
| 2247 | 258108.4 | 4085382 | 8.07E-05 | 1.17E-03 | 8.60E-04 | 8.60E-04 | 4.79E-04 | 1.22E-05 | 1.78E-04 | 1.34E-04 | 1.34E-04 | 7.38E-05 | 6.65E-06 | 9.62E-05 | 5.97E-05 | 5.97E-05 | 2.96E-05 |
| 2248 | 258132.7 | 4085381 | 7.71E-05 | 1.12E-03 | 8.22E-04 | 8.22E-04 | 4.58E-04 | 1.17E-05 | 1.70E-04 | 1.28E-04 | 1.28E-04 | 7.06E-05 | 6.36E-06 | 9.19E-05 | 5.71E-05 | 5.71E-05 | 2.83E-05 |
| 2249 | 258157 | 4085380 | 7.33E-05 | 1.06E-03 | 7.81E-04 | 7.81E-04 | 4.36E-04 | 1.11E-05 | 1.62E-04 | 1.22E-04 | 1.22E-04 | 6.71E-06 | 6.04E-06 | 8.74E-05 | 5.43E-05 | 5.43E-05 | 2.69E-05 |
| 2250 | 258181.3 | 4085378 | 6.93E-06 | 1.00E-03 | 7.39E-04 | 7.39E-04 | 4.12E-04 | 1.05E-05 | 1.53E-04 | 1.15E-04 | 1.15E-04 | 6.34E-05 | 5.71E-06 | 8.26E-05 | 5.13E-05 | 5.13E-05 | 2.54E-05 |
| 2251 | 258205.6 | 4085377 | 6.52E-05 | 9.42E-04 | 6.95E-04 | 6.95E-04 | 3.87E-04 | 9.89E-05 | 1.44E-04 | 1.08E-04 | 1.08E-04 | 5.96E-05 | 5.37E-06 | 7.77E-05 | 4.83E-05 | 4.83E-05 | 2.39E-05 |
| 2252 | 258229.8 | 4085376 | 6.10E-05 | 8.83E-04 | 6.51E-04 | 6.51E-04 | 3.63E-04 | 9.26E-05 | 1.34E-04 | 1.02E-04 | 1.02E-04 | 5.58E-05 | 5.03E-06 | 7.28E-05 | 4.52E-05 | 4.52E-05 | 2.24E-05 |
| 2253 | 258254.1 | 4085375 | 5.70E-06 | 8.24E-04 | 6.07E-04 | 6.07E-04 | 3.38E-04 | 8.64E-05 | 1.25E-04 | 9.48E-05 | 9.48E-05 | 5.21E-05 | 4.69E-06 | 6.79E-05 | 4.22E-05 | 4.22E-05 | 2.09E-05 |
| 2254 | 258278.4 | 4085374 | 5.29E-06 | 7.66E-04 | 5.64E-04 | 5.64E-04 | 3.15E-04 | 8.03E-05 | 1.17E-04 | 8.81E-05 | 8.81E-06 | 4.84E-05 | 4.36E-06 | 6.31E-05 | 3.92E-05 | 3.92E-05 | 1.94E-05 |
| 2255 | 258302.7 | 4085373 | 4.89E-05 | 7.08E-04 | 5.22E-04 | 5.22E-04 | 2.91E-04 | 7.43E-06 | 1.08E-04 | 8.15E-05 | 8.15E-06 | 4.48E-06 | 4.03E-06 | 5.84E-05 | 3.62E-05 | 3.62E-05 | 1.79E-05 |
| 2256 | 258327 | 4085372 | 4.50E-05 | 6.51E-04 | 4.80E-04 | 4.80E-04 | 2.68E-04 | 6.84E-06 | 9.92E-05 | 7.50E-05 | 7.50E-06 | 4.12E-06 | 3.71E-06 | 5.37E-05 | 3.34E-05 | 3.34E-05 | 1.65E-05 |
| 2257 | 258351.2 | 4085371 | 4.13E-05 | 5.98E-04 | 4.41E-04 | 4.41E-04 | 2.46E-04 | 6.27E-06 | 9.11E-05 | 6.88E-05 | 6.88E-05 | 3.78E-05 | 3.41E-06 | 4.93E-05 | 3.06E-05 | 3.06E-05 | 1.51E-05 |
| 2258 | 258375.5 | 4085370 | 3.79E-05 | 5.48E-04 | 4.04E-04 | 4.04E-04 | 2.25E-04 | 5.75E-06 | 8.35E-05 | 6.31E-05 | 6.31E-05 | 3.47E-05 | 3.12E-06 | 4.52E-05 | 2.81E-05 | 2.81E-05 | 1.39E-05 |
| 2259 | 257554.8 | 4085447 | 7.77E-05 | 1.12E-03 | 8.28E-04 | 8.28E-04 | 4.62E-04 | 1.18E-05 | 1.71E-04 | 1.29E-04 | 1.29E-04 | 7.11E-05 | 6.41E-05 | 9.27E-05 | 5.76E-05 | 5.76E-05 | 2.85E-05 |
| 2260 | 257533.1 | 4085439 | 7.82E-05 | 1.13E-03 | 8.33E-04 | 8.33E-04 | 4.65E-04 | 1.19E-05 | 1.72E-04 | 1.30E-04 | 1.30E-04 | 7.15E-05 | 6.44E-06 | 9.32E-05 | 5.79E-06 | 5.79E-05 | 2.87E-05 |
| 2261 | 257511.5 | 4085432 | 7.82E-05 | 1.13E-03 | 8.34E-04 | 8.34E-04 | 4.65E-04 | 1.19E-05 | 1.72E-04 | 1.30E-04 | 1.30E-04 | 7.16E-05 | 6.45E-06 | 9.33E-05 | 5.79E-05 | 5.79E-05 | 2.87E-05 |
| 2262 | 257489.8 | 4085424 | 7.78E-05 | 1.13E-03 | 8.30E-04 | 8.30E-04 | 4.63E-04 | 1.18E-06 | 1.72E-04 | 1.30E-04 | 1.

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2057 | 258318.1 | 4085172 | 2.41E-04 | 3.48E-03 | 2.56E-03 | 2.56E-03 | 1.43E-03 | 3.65E-05 | 5.30E-04 | 4.00E-04 | 4.00E-04 | 2.20E-04 | 1.98E-05 | 2.87E-04 | 1.78E-04 | 1.78E-04 | 8.82E-05 |
| 2058 | 258342.4 | 4085171 | 1.95E-04 | 2.82E-03 | 2.08E-03 | 2.08E-03 | 1.16E-03 | 2.96E-05 | 4.30E-04 | 3.25E-04 | 3.25E-04 | 1.79E-04 | 1.61E-05 | 2.33E-04 | 1.45E-04 | 1.45E-04 | 7.15E-05 |
| 2059 | 257548.4 | 4085224 | 2.52E-04 | 3.65E-03 | 2.69E-03 | 2.69E-03 | 1.50E-03 | 3.83E-05 | 5.56E-04 | 4.20E-04 | 4.20E-04 | 2.31E-04 | 2.08E-05 | 3.01E-04 | 1.87E-04 | 1.87E-04 | 9.25E-05 |
| 2060 | 257504.3 | 4085193 | 2.26E-04 | 3.27E-03 | 2.41E-03 | 2.41E-03 | 1.34E-03 | 3.43E-05 | 4.98E-04 | 3.76E-04 | 3.76E-04 | 2.07E-04 | 1.86E-05 | 2.70E-04 | 1.67E-04 | 1.67E-04 | 8.29E-05 |
| 2061 | 257590.8 | 4085229 | 2.80E-04 | 4.05E-03 | 2.98E-03 | 2.98E-03 | 1.66E-03 | 4.25E-05 | 6.17E-04 | 4.66E-04 | 4.66E-04 | 2.56E-04 | 2.31E-05 | 3.34E-04 | 2.07E-04 | 2.07E-04 | 1.03E-04 |
| 2062 | 257615 | 4085228 | 2.97E-04 | 4.30E-03 | 3.17E-03 | 3.17E-03 | 1.77E-03 | 4.51E-05 | 6.55E-04 | 4.95E-04 | 4.95E-04 | 2.72E-04 | 2.45E-05 | 3.55E-04 | 2.20E-04 | 2.20E-04 | 1.09E-04 |
| 2063 | 257639.3 | 4085227 | 3.11E-04 | 4.49E-03 | 3.31E-03 | 3.31E-03 | 1.85E-03 | 4.72E-05 | 6.85E-04 | 5.17E-04 | 5.17E-04 | 2.84E-04 | 2.56E-05 | 3.70E-04 | 2.30E-04 | 2.30E-04 | 1.14E-04 |
| 2064 | 257663.6 | 4085226 | 3.21E-04 | 4.64E-03 | 3.42E-03 | 3.42E-03 | 1.91E-03 | 4.87E-05 | 7.07E-04 | 5.34E-04 | 5.34E-04 | 2.94E-04 | 2.65E-05 | 3.83E-04 | 2.38E-04 | 2.38E-04 | 1.18E-04 |
| 2065 | 257687.9 | 4085225 | 3.29E-04 | 4.75E-03 | 3.50E-03 | 3.50E-03 | 1.95E-03 | 4.99E-05 | 7.24E-04 | 5.47E-04 | 5.47E-04 | 3.01E-04 | 2.71E-05 | 3.92E-04 | 2.43E-04 | 2.43E-04 | 1.20E-04 |
| 2066 | 257712.2 | 4085224 | 3.35E-04 | 4.84E-03 | 3.57E-03 | 3.57E-03 | 1.99E-03 | 5.08E-05 | 7.37E-04 | 5.57E-04 | 5.57E-04 | 3.06E-04 | 2.76E-05 | 3.99E-04 | 2.48E-04 | 2.48E-04 | 1.23E-04 |
| 2067 | 257736.5 | 4085223 | 3.39E-04 | 4.91E-03 | 3.62E-03 | 3.62E-03 | 2.02E-03 | 5.15E-05 | 7.48E-04 | 5.65E-04 | 5.65E-04 | 3.11E-04 | 2.80E-05 | 4.05E-04 | 2.51E-04 | 2.51E-04 | 1.24E-04 |
| 2068 | 257760.7 | 4085222 | 3.43E-04 | 4.96E-03 | 3.66E-03 | 3.66E-03 | 2.04E-03 | 5.21E-05 | 7.56E-04 | 5.71E-04 | 5.71E-04 | 3.14E-04 | 2.83E-05 | 4.09E-04 | 2.54E-04 | 2.54E-04 | 1.26E-04 |
| 2069 | 257785 | 4085221 | 3.46E-04 | 5.00E-03 | 3.69E-03 | 3.69E-03 | 2.05E-03 | 5.25E-05 | 7.62E-04 | 5.75E-04 | 5.75E-04 | 3.16E-04 | 2.85E-05 | 4.12E-04 | 2.56E-04 | 2.56E-04 | 1.27E-04 |
| 2070 | 257809.3 | 4085220 | 3.48E-04 | 5.03E-03 | 3.71E-03 | 3.71E-03 | 2.07E-03 | 5.28E-05 | 7.66E-04 | 5.79E-04 | 5.79E-04 | 3.18E-04 | 2.87E-05 | 4.15E-04 | 2.58E-04 | 2.58E-04 | 1.27E-04 |
| 2071 | 257833.6 | 4085219 | 3.49E-04 | 5.05E-03 | 3.72E-03 | 3.72E-03 | 2.07E-03 | 5.30E-05 | 7.69E-04 | 5.81E-04 | 5.81E-04 | 3.19E-04 | 2.88E-05 | 4.16E-04 | 2.59E-04 | 2.59E-04 | 1.28E-04 |
| 2072 | 257857.9 | 4085218 | 3.50E-04 | 5.06E-03 | 3.73E-03 | 3.73E-03 | 2.08E-03 | 5.31E-05 | 7.71E-04 | 5.83E-04 | 5.83E-04 | 3.20E-04 | 2.88E-05 | 4.17E-04 | 2.59E-04 | 2.59E-04 | 1.28E-04 |
| 2073 | 257882.1 | 4085217 | 3.50E-04 | 5.07E-03 | 3.73E-03 | 3.73E-03 | 2.08E-03 | 5.32E-05 | 7.72E-04 | 5.83E-04 | 5.83E-04 | 3.21E-04 | 2.89E-05 | 4.18E-04 | 2.59E-04 | 2.59E-04 | 1.28E-04 |
| 2074 | 257906.4 | 4085215 | 3.49E-04 | 5.04E-03 | 3.72E-03 | 3.72E-03 | 2.07E-03 | 5.29E-05 | 7.68E-04 | 5.80E-04 | 5.80E-04 | 3.19E-04 | 2.87E-05 | 4.16E-04 | 2.58E-04 | 2.58E-04 | 1.28E-04 |
| 2075 | 257930.7 | 4085214 | 3.45E-04 | 5.00E-03 | 3.68E-03 | 3.68E-03 | 2.05E-03 | 5.24E-05 | 7.61E-04 | 5.75E-04 | 5.75E-04 | 3.16E-04 | 2.85E-05 | 4.12E-04 | 2.56E-04 | 2.56E-04 | 1.27E-04 |
| 2076 | 257955 | 4085213 | 3.44E-04 | 4.98E-03 | 3.67E-03 | 3.67E-03 | 2.04E-03 | 5.22E-05 | 7.58E-04 | 5.73E-04 | 5.73E-04 | 3.15E-04 | 2.84E-05 | 4.10E-04 | 2.55E-04 | 2.55E-04 | 1.26E-04 |
| 2077 | 257979.3 | 4085212 | 3.42E-04 | 4.95E-03 | 3.65E-03 | 3.65E-03 | 2.03E-03 | 5.19E-05 | 7.54E-04 | 5.69E-04 | 5.69E-04 | 3.13E-04 | 2.82E-05 | 4.08E-04 | 2.53E-04 | 2.53E-04 | 1.25E-04 |
| 2078 | 258003.6 | 4085211 | 3.39E-04 | 4.91E-03 | 3.62E-03 | 3.62E-03 | 2.02E-03 | 5.15E-05 | 7.48E-04 | 5.65E-04 | 5.65E-04 | 3.11E-04 | 2.80E-05 | 4.05E-04 | 2.51E-04 | 2.51E-04 | 1.24E-04 |
| 2079 | 258027.8 | 4085210 | 3.36E-04 | 4.86E-03 | 3.58E-03 | 3.58E-03 | 2.00E-03 | 5.10E-05 | 7.60E-04 | 5.59E-04 | 5.59E-04 | 3.07E-04 | 2.77E-05 | 4.01E-04 | 2.49E-04 | 2.49E-04 | 1.23E-04 |
| 2080 | 258052.1 | 4085209 | 3.32E-04 | 4.80E-03 | 3.54E-03 | 3.54E-03 | 1.97E-03 | 5.03E-05 | 7.31E-04 | 5.52E-04 | 5.52E-04 | 3.03E-04 | 2.73E-05 | 3.95E-04 | 2.46E-04 | 2.46E-04 | 1.22E-04 |
| 2081 | 258076.4 | 4085208 | 3.26E-04 | 4.72E-03 | 3.48E-03 | 3.48E-03 | 1.94E-03 | 4.95E-05 | 7.19E-04 | 5.43E-04 | 5.43E-04 | 2.99E-04 | 2.69E-05 | 3.89E-04 | 2.42E-04 | 2.42E-04 | 1.20E-04 |
| 2082 | 258100.7 | 4085207 | 3.20E-04 | 4.63E-03 | 3.41E-03 | 3.41E-03 | 1.90E-03 | 4.86E-05 | 7.05E-04 | 5.33E-04 | 5.33E-04 | 2.93E-04 | 2.64E-05 | 3.81E-04 | 2.37E-04 | 2.37E-04 | 1.17E-04 |
| 2083 | 258125 | 4085206 | 3.12E-04 | 4.52E-03 | 3.33E-03 | 3.33E-03 | 1.86E-03 | 4.74E-05 | 6.88E-04 | 5.20E-04 | 5.20E-04 | 2.86E-04 | 2.57E-05 | 3.72E-04 | 2.31E-04 | 2.31E-04 | 1.14E-04 |
| 2084 | 258149.2 | 4085205 | 3.03E-04 | 4.38E-03 | 3.23E-03 | 3.23E-03 | 1.80E-03 | 4.60E-05 | 6.67E-04 | 5.04E-04 | 5.04E-04 | 2.77E-04 | 2.50E-05 | 3.61E-04 | 2.24E-04 | 2.24E-04 | 1.11E-04 |
| 2085 | 258173.5 | 4085204 | 2.92E-04 | 4.22E-03 | 3.11E-03 | 3.11E-03 | 1.73E-03 | 4.42E-05 | 6.42E-04 | 4.85E-04 | 4.85E-04 | 2.67E-04 | 2.40E-05 | 3.48E-04 | 2.16E-04 | 2.16E-04 | 1.07E-04 |
| 2086 | 258197.8 | 4085203 | 2.78E-04 | 4.02E-03 | 2.96E-03 | 2.96E-03 | 1.65E-03 | 4.22E-05 | 6.12E-04 | 4.63E-04 | 4.63E-04 | 2.54E-04 | 2.29E-05 | 3.31E-04 | 2.06E-04 | 2.06E-04 | 1.02E-04 |
| 2087 | 258222.1 | 4085201 | 2.62E-04 | 3.78E-03 | 2.79E-03 | 2.79E-03 | 1.56E-03 | 3.97E-05 | 5.77E-04 | 4.36E-04 | 4.36E-04 | 2.39E-04 | 2.16E-05 | 3.12E-04 | 1.94E-04 | 1.94E-04 | 9.59E-05 |
| 2088 | 258246.4 | 4085200 | 2.42E-04 | 3.51E-03 | 2.58E-03 | 2.58E-03 | 1.44E-03 | 3.68E-05 | 5.34E-04 | 4.03E-04 | 4.03E-04 | 2.22E-04 | 2.00E-05 | 2.89E-04 | 1.80E-04 | 1.80E-04 | 8.89E-05 |
| 2089 | 258270.7 | 4085199 | 2.20E-04 | 3.18E-03 | 2.34E-03 | 2.34E-03 | 1.31E-03 | 3.34E-05 | 4.85E-04 | 3.66E-04 | 3.66E-04 | 2.01E-04 | 1.81E-05 | 2.62E-04 | 1.63E-04 | 1.63E-04 | 8.06E-05 |
| 2090 | 258294.9 | 4085198 | 1.95E-04 | 2.82E-03 | 2.08E-03 | 2.08E-03 | 1.16E-03 | 2.95E-05 | 4.29E-04 | 3.24E-04 | 3.24E-04 | 1.78E-04 | 1.60E-05 | 2.32E-04 | 1.44E-04 | 1.44E-04 | 7.14E-05 |
| 2091 | 258319.2 | 4085197 | 1.68E-04 | 2.42E-03 | 1.79E-03 | 1.79E-03 | 9.96E-04 | 2.54E-05 | 3.69E-04 | 2.79E-04 | 2.79E-04 | 1.53E-04 | 1.38E-05 | 2.00E-04 | 1.24E-04 | 1.24E-04 | 6.14E-05 |
| 2092 | 258343.5 | 4085196 | 1.41E-04 | 2.03E-03 | 1.50E-03 | 1.50E-03 | 8.36E-04 | 2.13E-05 | 3.10E-04 | 2.34E-04 | 2.34E-04 | 1.29E-04 | 1.16E-05 | 1.68E-04 | 1.04E-04 | 1.04E-04 | 5.16E-05 |
| 2093 | 258367.8 | 4085195 | 1.17E-04 | 1.69E-03 | 1.24E-03 | 1.24E-03 | 6.93E-04 | 1.77E-05 | 2.57E-04 | 1.94E-04 | 1.94E-04 | 1.07E-04 | 9.61E-06 | 1.39E-04 | 8.64E-05 | 8.64E-05 | 4.27E-05 |
| 2094 | 257549.5 | 4085249 | 2.08E-04 | 3.01E-03 | 2.22E-03 | 2.22E-03 | 1.24E-03 | 3.16E-05 | 4.59E-04 | 3.47E-04 | 3.47E-04 | 1.91E-04 | 1.72E-05 | 2.48E-04 | 1.54E-04 | 1.54E-04 | 7.63E-05 |
| 2095 | 257513.4 | 4085236 | 1.92E-04 | 2.78E-03 | 2.05E-03 | 2.05E-03 | 1.14E-03 | 2.92E-05 | 4.24E-04 | 3.20E-04 | 3.20E-04 | 1.76E-04 | 1.59E-05 | 2.29E-04 | 1.42E-04 | 1.42E-04 | 7.05E-05 |
| 2096 | 257487.3 | 4085212 | 1.82E-04 | 2.63E-03 | 1.94E-03 | 1.94E-03 | 1.08E-03 | 2.76E-05 | 4.01E-04 | 3.03E-04 | 3.03E-04 | 1.66E-04 | 1.50E-05 | 2.17E-04 | 1.35E-04 | 1.35E-04 | 6.67E-05 |
| 2097 | 257471.3 | 4085177 | 1.70E-04 | 2.45E-03 | 1.81E-03 | 1.81E-03 | 1.01E-03 | 2.57E-05 | 3.74E-04 | 2.82E-04 | 2.82E-04 | 1.55E-04 | 1.40E-05 | 2.02E-04 | 1.26E-04 | 1.26E-04 | 6.22E-05 |
| 2098 | 257591.9 | 4085254 | 2.25E-04 | 3.26E-03 | 2.40E-03 | 2.40E-03 | 1.34E-03 | 3.42E-05 | 4.97E-04 | 3.75E-04 | 3.75E-04 | 2.06E-04 | 1.86E-05 | 2.69E-04 | 1.67E-04 | 1.67E-04 | 8.27E-05 |
| 2099 | 257616.2 | 4085253 | 2.37E-04 | 3.43E-03 | 2.53E-03 | 2.53E-03 | 1.41E-03 | 3.60E-05 | 5.23E-04 | 3.95E-04 | 3.95E-04 | 2.17E-04 | 1.96E-05 | 2.83E-04 | 1.76E-04 | 1.76E-04 | 8.71E-05 |
| 2100 | 257640.4 | 4085252 | 2.47E-04 | 3.57E-03 | 2.63E-03 | 2.63E-03 | 1.47E-03 | 3.75E-05 | 5.44E-04 | 4.11E-04 | 4.11E-04 | 2.26E-04 | 2.04E-05 | 2.95E-04 | 1.83E-04 | 1.83E-04 | 9.06E-05 |
| 2101 | 257664.7 | 4085251 | 2.55E-04 | 3.68E-03 | 2.72E-03 | 2.72E-03 | 1.51E-03 | 3.87E-05 | 5.61E-04 | 4.24E-04 | 4.24E-04 | 2.33E-04 | 2.10E-05 | 3.04E-04 | 1.89E-04 | 1.89E-04 | 9.34E-05 |
| 2102 | 257689 | 4085250 | 2.61E-04 | 3.77E-03 | 2.78E-03 | 2.78E-03 | 1.55E-03 | 3.96E-05 | 5.74E-04 | 4.34E-04 | 4.34E-04 | 2.39E-04 | 2.15E-05 | 3.11E-04 | 1.93E-04 | 1.93E-04 | 9.56E-05 |
| 2103 | 257713.3 | 4085249 | 2.65E-04 | 3.84E-03 | 2.83E-03 | 2.83E-03 | 1.58E-03 | 4.03E-05 | 5.85E-04 | 4.42E-04 | 4.42E-04 | 2.43E-04 | 2.19E-05 | 3.16E-04 | 1.97E-04 | 1.97E-04 | 9.73E-05 |
| 2104 | 257737.6 | 4085248 | 2.69E-04 | 3.89E-03 | 2.87E-03 | 2.87E-03 | 1.60E-03 | 4.08E-05 | 5.93E-04 | 4.48E-04 | 4.48E-04 | 2.46E-04 | 2.22E-05 | 3.21E-04 | 1.99E-04 | 1.99E-04 | 9.86E-05 |
| 2105 | 257761.8 | 4085247 | 2.72E-04 | 3.93E-03 | 2.90E-03 | 2.90E-03 | 1.62E-03 | 4.13E-05 | 5.99E-04 | 4.52E-04 | 4.52E-04 | 2.49E-04 | 2.24E-05 | 3.24E-04 | 2.01E-04 | 2.01E-04 | 9.96E-05 |
| 2106 | 257786.1 | 4085246 | 2.74E-04 | 3.96E-03 | 2.92E-03 | 2.92E-03 | 1.63E-03 | 4.16E-05 | 6.04E-04 | 4.56E-04 | 4.56E-04 | 2.51E-04 | 2.26E-05 | 3.27E-04 | 2.03E-04 | 2.03E-04 | 1.00E-04 |
| 2107 | 257810.4 | 4085245 | 2.75E-04 | 3.98E-03 | 2.94E-03 | 2.94E-03 | 1.64E-03 | 4.18E-05 | 6.07E-04 | 4.58E-04 | 4.58E-04 | 2.52E-04 | 2.27E-05 | 3.28E-04 | 2.04E-04 | 2.04E-04 | 1.01E-04 |
| 2108 | 257834.7 | 4085244 | 2.76E-04 | 4.00E-03 | 2.95E-03 | 2.95E-03 | 1.64E-03 | 4.19E-05 | 6.09E-04 | 4.60E-04 | 4.60E-04 | 2.53E-04 | 2.28E-05 | 3.29E-04 | 2.05E-04 | 2.05E-04 | 1.01E-04 |
| 2109 | 257859 | 4085143 | 2.77E-04 | 4.00E-03 | 2.95E-03 | 2.95E-03 | 1.64E-03 | 4.20E-05 | 6.10E-04 | 4.61E-04 | 4.61E-04 | 2.53E-04 | 2.28E-05 | 3.30E-04 | 2.05E-04 | 2.05E-04 | 1.01E-04 |
| 2110 | 257883.3 | 4085242 | 2.75E-04 | 3.98E-03 | 2.93E-03 | 2.93E-03 | 1.63E-03 | 4.17E-05 | 6.06E-04 | 4.57E-04 | 4.57E-04 | 2.52E-04 | 2.27E-05 | 3.28E-04 | 2.04E-04 | 2.04E-04 | 1.01E-04 |
| 2111 | 257907.5 | 4085240 | 2.73E-04 | 3.95E-03 | 2.91E-03 | 2.91E-03 | 1.62E-03 | 4.15E-05 | 6.02E-04 | 4.55E-04 | 4.55E-04 | 2.50E-04 | 2.25E-05 | 3.26E-04 | 2.02E-04 | 2.02E-04 | 1.00E-04 |
| 2112 | 257931.8 | 4085239 | 2.72E-04 | 3.94E-03 | 2.90E-03 | 2.90E-03 | 1.62E-03 | 4.13E-05 | 6.00E-04 | 4.53E-04 | 4.53E-04 | 2.49E-04 | 2.24E-05 | 3.25E-04 | 2.02E-04 | 2.02E-04 | 9.98E-05 |
| 2113 | 257956.1 | 4085238 | 2.71E-04 | 3.91E-03 | 2.89E-03 | 2.89E-03 | 1.61E-03 | 4.11E-05 | 5.96E-04 | 4.50E-04 | 4.50E-04 | 2.48E-04 | 2.23E-05 | 3.23E-04 | 2.00E-04 | 2.00E-04 | 9.92E-05 |
| 2114 | 257980.4 | 4085237 | 2.68E-04 | 3.88E-03 | 2.86E-03 | 2.86E-03 | 1.60E-03 | 4.07E-05 | 5.91E-04 | 4.47E-04 | 4.47E-04 | 2.46E-04 | 2.21E-05 | 3.20E-04 | 1.99E-04 | 1.99E-04 | 9.84E-05 |
| 2115 | 258004.7 | 4085236 | 2.66E-04 | 3.84E-03 | 2.83E-03 | 2.83E-03 | 1.58E-03 | 4.03E-05 | 5.85E-04 | 4.42E-04 | 4.42E-04 | 2.43E-04 | 2.19E-05 | 3.17E-04 | 1.97E-04 | 1.97E-04 | 9.73E-05 |
| 2116 | 258028.9 | 4085235 | 2.62E-04 | 3.79E-03 | 2.79E-03 | 2.79E-03 | 1.56E-03 | 3.98E-05 | 5.77E-04 | 4.36E-04 | 4.36E-04 | 2.40E-04 | 2.16E-05 | 3.12E-04 | 1.94E-04 | 1.94E-04 | 9.60E-05 |
| 2117 | 258053.2 | 4085234 | 2.58E-04 | 3.73E-03 | 2.75E-03 | 2.75E-03 | 1.53E-03 | 3.91E-05 | 5.68E-04 | 4.29E-04 | 4.29E-04 | 2.36E-04 | 2.12E-05 | 3.07E-04 | 1.91E-04 | 1.91E-04 | 9.44E-05 |
| 2118 | 258077.5 | 4085233 | 2.52E-04 | 3.65E-03 | 2.69E-03 | 2.69E-03 | 1.50E-03 | 3.83E-05 | 5.56E-04 | 4.20E-04 | 4.20E-04 | 2.31E-04 | 2.08E-05 | 3.01E-04 | 1.87E-04 | 1.87E-04 | 9.25E-05 |
| 2119 | 258101.8 | 4085232 | 2.46E-04 | 3.56E-03 | 2.63E-03 | 2.63E-03 | 1.46E-03 | 3.74E-05 | 5.43E-04 | 4.10E-04 | 4.10E-04 | 2.25E-04 | 2.03E-05 | 2.94E-04 | 1.82E-04 | 1.82E-04 | 9.03E-05 |
| 2120 | 258126.1 | 4085231 | 2.39E-04 | 3.46E-03 | 2.55E-03 | 2.55E-03 | 1.42E-03 | 3.63E-05 | 5.27E-04 | 3.98E-04 | 3.98E-04 | 2.19E-04 | 1.97E-05 | 2.85E-04 | 1.77E-04 | 1.77E-04 | 8.76E-05 |
| 2121 | 258150.4 | 4085230 | 2.30E-04 | 3.33E-03 | 2.46E-03 | 2.46E-03 | 1.37E-03 | 3.50E-05 | 5.08E-04 | 3.83E-04 | 3.83E-04 | 2.11E-04 | 1.90E-05 | 2.75E-04 | 1.71E-04 | 1.71E-04 | 8.44E-05 |
| 2122 | 258174.6 | 4085229 | 2.20E-04 | 3.19E-03 | 2.35E-03 | 2.35E-03 | 1.31E-03 | 3.34E-05 | 4.85E-04 | 3.67E-04 | 3.67E-04 | 2.02E-04 | 1.82E-05 | 2.63E-04 | 1.63E-04 | 1.63E-04 | 8.08E-05 |
| 2123 | 258198.9 | 4085228 | 2.09E-04 | 3.02E-03 | 2.22E-03 | 2.22E-03 | 1.24E-03 | 3.17E-05 | 4.60E-04 | 3.47E-04 | 3.47E-04 | 1.91E-04 | 1.72E-05 | 2.49E-04 | 1.54E-04 | 1.54E-04 | 7.65E-05 |
| 2124 | 258223.2 | 4085226 | 1.95E-04 | 2.82E-03 | 2.08E-03 | 2.08E-03 | 1.16E-03 | 2.96E-05 | 4.30E-04 | 3.25E-04 | 3.25E-04 | 1.79E-04 | 1.61E-05 | 2.33E-04 | 1.45E-04 | 1.45E-04 | 7.15E-05 |
| 2125 | 258247.5 | 4085225 | 1.80E-04 | 2.60E-03 | 1.92E-03 | 1.92E-03 | 1.07E-03 | 2.73E-05 | 3.96E-04 | 2.99E-04 | 2.99E-04 | 1.65E-04 | 1.48E-05 | 2.14E-04 | 1.33E-04 | 1.33E-04 | 6.59E-05 |
| 2126 | 258271.8 | 4085224 | 1.63E-04 | 2.36E-03 | 1.74E-03 | 1.74E-03 | 9.68E-04 | 2.47E-05 | 3.59E-04 | 2.71E-04 | 2.71E-04 | 1.49E-04 | 1.34E-05 | 1.94E-04 | 1.21E-04 | 1.21E-04 | 5.97E-05 |
| 2127 | 258296 | 4085223 | 1.45E-04 | 2.10E-03 | 1.54E-03 | 1.54E-03 | 8.61E-04 | 2.20E-05 | 3.19E-04 | 2.41E-04 | 2.41E-04 | 1.33E-04 | 1.19E-05 | 1.73E-04 | 1.07E-04 | 1.07E-04 | 5.31E-05 |
| 2128 | 258320.3 | 4085222 | 1.27E-04 | 1.83E-03 | 1.35E-03 | 1.35E-03 | 7.52E-04 | 1.92E-05 | 2.79E-04 | 2.11E-04 | 2.11E-04 | 1.16E-04 | 1.04E-05 | 1.51E-04 | 9.37E-05 | 9.37E-05 | 4.64E-05 |
| 2129 | 258344.6 | 4085221 | 1.09E-04 | 1.57E-03 | 1.16E-03 | 1.16E-03 | 6.47E-04 | 1.65E-05 | 2.40E-04 | 1.81E-04 | 1.81E-04 | 9.96E-05 | 8.97E-06 | 1.30E-04 | 8.06E-05 | 8.06E-05 | 3.99E-05 |
| 2130 | 257548.1 | 4085298 | 1.52E-04 | 2.20E-03 | 1.62E-03 | 1.62E-03 | 9.04E-04 | 2.31E-05 | 3.35E-04 | 2.53E-04 | 2.53E-04 | 1.39E-04 | 1.25E-05 | 1.81E-04 | 1.13E-04 | 1.13E-04 | 5.57E-05 |
| 2131 | 257526.5 | 4085290 | 1.49E-04 | 2.16E-03 | 1.59E-03 | 1.59E-03 | 8.88E-04 | 2.27E-05 | 3.29E-04 | 2.49E-04 | 2.49E-04 | 1.37E-04 | 1.23E-05 | 1.78E-04 | 1.11E-04 | 1.11E-04 | 5.47E-05 |
| 2132 | 257504.8 | 4085282 | 1.44E-04 | 2.09E-03 | 1.54E-03 | 1.54E-03 | 8.58E-04 | 2.19E-05 | 3.18E-04 | 2.40E-04 | 2.40E-04 | 1.32E-04 | 1.19E-05 | 1.72E-04 | 1.07E-04 | 1.07E-04 | 5.29E-05 |
| 2133 | 257483.2 | 4085274 | 1.37E-04 | 1.98E-03 | 1.46E-03 | 1.46E-03 | 8.14E-04 | 2.08E-05 | 3.02E-04 | 2.28E-04 | 2.28E-04 | 1.25E-04 | 1.13E-05 | 1.63E-04 | 1.01E-04 | 1.01E-04 | 5.02E-05 |
| 2134 | 257451.9 | 4085245 | 1.29E-04 | 1.86E-03 | 1.37E-03 | 1.37E-03 | 7.65E-04 | 1.95E-05 | 2.84E-04 | 2.14E-04 | 2.14E-04 | 1.18E-04 | 1.06E-05 | 1.54E-04 | 9.54E-05 | 9.54E-05 | 4.72E-05 |
| 2135 | 257442.2 | 4085224 | 1.26E-04 | 1.83E-03 | 1.35E-03 | 1.35E-03 | 7.51E-04 | 1.92E-05 | 2.78E-04 | 2.10E-04 | 2.10E-04 | 1.16E-04 | 1.04E-05 | 1.51E-04 | 9.36E-05 | 9.36E-05 | 4.63E-05 |
| 2136 | 257432.6 | 4085203 | 1.20E-04 | 1.73E-03 | 1.28E-03 | 1.28E-03 | 7.11E-04 | 1.82E-05 | 2.64E-04 | 1.99E-04 | 1.99E-04 | 1.09E-04 | 9.86E-06 | 1.43E-04 | 8.86E-05 | 8.86E-05 | 4.38E-05 |
| 2137 | 257422.9 | 4085182 | 1.10E-04 | 1.59E-03 | 1.17E-03 | 1.17E-03 | 6.51E-04 | 1.66E-05 | 2.41E-04 | 1.82E-04 | 1.82E-04 | 1.00E-04 | 9.03E-06 | 1.31E-04 | 8.12E-05 | 8.12E-05 | 4.02E-05 |
| 2138 | 257569.8 | 4085305 | 1.53E-04 | 2.21E-03 | 1.63E-03 | 1.63E-03 | 9.08E-04 | 2.32E-05 | 3.37E-04 | 2.54E-04 | 2.54E-04 | 1.40E-04 | 1.26E-05 | 1.82E-04 | 1.13E-04 | 1.13E-04 | 5.60E-05 |
| 2139 | 257594.1 | 4085304 | 1.61E-04 | 2.32E-03 | 1.71E-03 | 1.71E-03 | 9.54E-04 | 2.44E-05 | 3.54E-04 | 2.67E-04 | 2.67E-04 | 1.47E-04 | 1.32E-05 | 1.91E-04 | 1.19E-04 | 1.19E-04 | 5.88E-05 |
| 2140 | 257618.4 | 4085303 | 1.67E-04 | 2.42E-03 | 1.78E-03 | 1.78E-03 | 9.93E-04 | 2.53E-05 | 3.68E-04 | 2.78E-04 | 2.78E-04 | 1.53E-04 | 1.38E-05 | 1.99E-04 | 1.24E-04 | 1.24E-04 | 6.12E-05 |
| 2141 | 257642.6 | 4085302 | 1.72E-04 | 2.49E-03 | 1.84E-03 | 1.84E-03 | 1.02E-03 | 2.62E-05 | 3.80E-04 | 2.87E-04 | 2.87E-04 | 1.58E-04 | 1.42E-05 | 2.06E-04 | 1.28E-04 | 1.28E-04 | 6.32E-05 |
| 2142 | 257666.9 | 4085301 | 1.77E-04 | 2.56E-03 | 1.89E-03 | 1.89E-03 | 1.05E-03 | 2.68E-05 | 3.90E-04 | 2.94E-04 | 2.94E-04 | 1.62E-04 | 1.46E-05 | 2.11E-04 | 1.31E-04 | 1.31E-04 | 6.48E-05 |
| 2143 | 257691.2 | 4085300 | 1.81E-04 | 2.61E-03 | 1.92E-03 | 1.92E-03 | 1.07E-03 | 2.74E-05 | 3.98E-04 | 3.00E-04 | 3.00E-04 | 1.65E-04 | 1.49E-05 | 2.15E-04 | 1.34E-04 | 1.34E-04 | 6.62E-05 |
| 2144 | 257715.5 | 4085299 | 1.83E-04 | 2.65E-03 | 1.96E-03 | 1.96E-03 | 1.09E-03 | 2.78E-05 | 4.04E-04 | 3.05E-04 | 3.05E-04 | 1.68E-04 | 1.51E-05 | 2.19E-04 | 1.36E-04 | 1.36E-04 | 6.72E-05 |
| 2145 | 257739.8 | 4085298 | 1.86E-04 | 2.68E-03 | 1.98E-03 | 1.98E-03 | 1.10E-03 | 2.82E-05 | 4.09E-04 | 3.09E-04 | 3.09E-04 | 1.70E-04 | 1.53E-05 | 2.21E-04 | 1.37E-04 | 1.37E-04 | 6.80E-05 |
| 2146 | 257764.1 | 4085297 | 1.87E-04 | 2.71E-03 | 1.99E-03 | 1.99E-03 | 1.11E-03 | 2.84E-05 | 4.12E-04 | 3.11E-04 | 3.11E-04 | 1.71E-04 | 1.54E-05 | 2.23E-04 | 1.39E-04 | 1.39E-04 | 6.86E-05 |
| 2147 | 257788.3 | 4085296 | 1.88E-04 | 2.72E-03 | 2.00E-03 | 2.00E-03 | 1.12E-03 | 2.85E-05 | 4.14E-04 | 3.13E-04 | 3.13E-04 | 1.72E-04 | 1.55E-05 | 2.24E-04 | 1.39E-04 | 1.39E-04 | 6.89E-05 |
| 2148 | 257812.6 | 4085295 | 1.88E-04 | 2.71E-03 | 2.00E-03 | 2.00E-03 | 1.12E-03 | 2.85E-05 | 4.13E-04 | 3.12E-04 | 3.12E-04 | 1.72E-04 | 1.55E-05 | 2.24E-04 | 1.39E-04 | 1.39E-04 | 6.88E-05 |
| 2149 | 257836.9 | 4085294 | 1.88E-04 | 2.71E-03 | 2.00E-03 | 2.00E-03 | 1.12E-03 | 2.85E-05 | 4.14E-04 | 3.12E-04 | 3.12E-04 | 1.72E-04 | 1.55E-05 | 2.24E-04 | 1.39E-04 | 1.39E-04 | 6.88E-05 |
| 2150 | 257861.2 | 4085293 | 1.87E-04 | 2.70E-03 | 1.99E-03 | 1.99E-03 | 1.11E-03 | 2.84E-05 | 4.12E-04 | 3.11E-04 | 3.11E-04 | 1.71E-04 | 1.54E-05 | 2.23E-04 | 1.38E-04 | 1.38E-04 | 6.85E-05 |
| 2151 | 257885.5 | 4085291 | 1.86E-04 | 2.69E-03 | 1.98E-03 | 1.98E-03 | 1.11E-03 | 2.83E-05 | 4.10E-04 | 3.10E-04 | 3.10E-04 | 1.70E-04 | 1.53E-05 | 2.22E-04 | 1.38E-04 | 1.38E-04 | 6.82E-05 |
| 2152 | 257909.7 | 4085290 | 1.85E-04 | 2.68E-03 | 1.97E-03 | 1.97E-03 | 1.10E-03 | 2.81E-05 | 4.08E-04 | 3.08E-04 | 3.08E-04 | 1.69E-04 | 1.53E-05 | 2.21E-04 | 1.37E-04 | 1.37E-04 | 6.78E-05 |
| 2153 | 257934 | 4085289 | 1.83E-04 | 2.65E-03 | 1.96E-03 | 1.96E-03 | 1.09E-03 | 2.78E-05 | 4.04E-04 | 3.05E-04 | 3.05E-04 | 1.68E-04 | 1.51E-05 | 2.19E-04 | 1.36E-04 | 1.36E-04 | 6.73E-05 |
| 2154 | 257958.3 | 4085288 | 1.81E-04 | 2.62E-03 | 1.93E-03 | 1.93E-03 | 1.08E-03 | 2.75E-05 | 4.00E-04 | 3.02E-04 | 3.02E-04 | 1.66E-04 | 1.50E-05 | 2.16E-04 | 1.34E-04 | 1.34E-04 | 6.65E-05 |
| 2155 | 257982.6 | 4085287 | 1.79E-04 | 2.59E-03 | 1.91E-03 | 1.91E-03 | 1.06E-03 | 2.72E-05 | 3.94E-04 | 2.98E-04 | 2.98E-04 | 1.64E-04 | 1.48E-05 | 2.13E-04 | 1.33E-04 | 1.33E-04 | 6.56E-05 |
| 2156 | 258006.9 | 4085286 | 1.76E-04 | 2.55E-03 | 1.88E-03 | 1.88E-03 | 1.05E-03 | 2.67E-05 | 3.88E-04 | 2.93E-04 | 2.93E-04 | 1.61E-04 | 1.45E-05 | 2.10E-04 | 1.30E-04 | 1.30E-04 | 6.45E-05 |
| 2157 | 258031.2 | 4085285 | 1.73E-04 | 2.50E-03 | 1.84E-03 | 1.84E-03 | 1.03E-03 | 2.62E-05 | 3.80E-04 | 2.87E-04 | 2.87E-04 | 1.58E-04 | 1.42E-05 | 2.06E-04 | 1.28E-04 | 1.28E-04 | 6.33E-05 |
| 2158 | 258055.4 | 4085284 | 1.69E-04 | 2.44E-03 | 1.80E-03 | 1.80E-03 | 1.00E-03 | 2.58E-05 | 3.71E-04 | 2.81E-04 | 2.81E-04 | 1.54E-04 | 1.39E-05 | 2.01E-04 | 1.25E-04 | 1.25E-04 | 6.18E-05 |
| 2159 | 258079.7 | 4085283 | 1.64E-04 | 2.37E-03 | 1.75E-03 | 1.75E-03 | 9.74E-04 | 2.49E-05 | 3.61E-04 | 2.73E-

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1954 | 256339.7 | 4084246 | 1.27E-06 | 1.84E-05 | 1.36E-05 | 1.36E-05 | 7.58E-06 | 1.93E-07 | 2.81E-06 | 2.12E-06 | 2.12E-06 | 1.17E-06 | 1.05E-07 | 1.52E-06 | 9.44E-07 | 9.44E-07 | 4.67E-07 |
| 1955 | 256355 | 4084205 | 1.24E-06 | 1.80E-05 | 1.32E-05 | 1.32E-05 | 7.38E-06 | 1.88E-07 | 2.74E-06 | 2.07E-06 | 2.07E-06 | 1.14E-06 | 1.02E-07 | 1.48E-06 | 9.20E-07 | 9.20E-07 | 4.55E-07 |
| 1956 | 256370.3 | 4084164 | 1.23E-06 | 1.78E-05 | 1.31E-06 | 1.31E-05 | 7.31E-06 | 1.87E-07 | 2.71E-06 | 2.05E-06 | 2.05E-06 | 1.13E-06 | 1.01E-07 | 1.47E-06 | 9.10E-07 | 9.10E-07 | 4.51E-07 |
| 1957 | 256385.6 | 4084123 | 1.23E-06 | 1.78E-05 | 1.31E-05 | 1.31E-05 | 7.31E-06 | 1.87E-07 | 2.71E-06 | 2.05E-06 | 2.05E-06 | 1.13E-06 | 1.01E-07 | 1.47E-06 | 9.10E-07 | 9.10E-07 | 4.51E-07 |
| 1958 | 256400.9 | 4084081 | 1.24E-06 | 1.79E-05 | 1.32E-05 | 1.32E-05 | 7.34E-06 | 1.88E-07 | 2.72E-06 | 2.06E-06 | 2.06E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.15E-07 | 9.15E-07 | 4.53E-07 |
| 1959 | 256416.2 | 4084040 | 1.24E-06 | 1.79E-05 | 1.32E-05 | 1.32E-05 | 7.37E-06 | 1.88E-07 | 2.73E-06 | 2.06E-06 | 2.06E-06 | 1.13E-06 | 1.02E-07 | 1.48E-06 | 9.18E-07 | 9.18E-07 | 4.54E-07 |
| 1960 | 256431.5 | 4083999 | 1.24E-06 | 1.80E-05 | 1.32E-06 | 1.32E-05 | 7.38E-06 | 1.88E-07 | 2.74E-06 | 2.07E-06 | 2.07E-06 | 1.14E-06 | 1.02E-07 | 1.48E-06 | 9.20E-07 | 9.20E-07 | 4.55E-07 |
| 1961 | 256446.8 | 4083957 | 1.23E-06 | 1.78E-05 | 1.32E-06 | 1.32E-05 | 7.33E-06 | 1.87E-07 | 2.72E-06 | 2.05E-06 | 2.05E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.14E-07 | 9.14E-07 | 4.52E-07 |
| 1962 | 256474.5 | 4083927 | 1.23E-06 | 1.78E-05 | 1.31E-06 | 1.31E-05 | 7.32E-06 | 1.87E-07 | 2.71E-06 | 2.05E-06 | 2.05E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.12E-07 | 9.12E-07 | 4.51E-07 |
| 1963 | 256514.4 | 4083909 | 1.24E-06 | 1.79E-05 | 1.32E-05 | 1.32E-05 | 7.34E-06 | 1.88E-07 | 2.72E-06 | 2.06E-06 | 2.06E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.15E-07 | 9.15E-07 | 4.53E-07 |
| 1964 | 256554.4 | 4083890 | 1.24E-06 | 1.79E-05 | 1.32E-05 | 1.32E-05 | 7.34E-06 | 1.88E-07 | 2.72E-06 | 2.06E-06 | 2.06E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.15E-07 | 9.15E-07 | 4.53E-07 |
| 1965 | 256594.4 | 4083872 | 1.23E-06 | 1.78E-06 | 1.31E-05 | 1.31E-05 | 7.32E-06 | 1.87E-07 | 2.71E-06 | 2.05E-06 | 2.05E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.12E-07 | 9.12E-07 | 4.51E-07 |
| 1966 | 256634.4 | 4083854 | 1.23E-06 | 1.78E-05 | 1.31E-05 | 1.31E-06 | 7.30E-06 | 1.86E-07 | 2.70E-06 | 2.04E-06 | 2.04E-06 | 1.12E-06 | 1.01E-07 | 1.46E-06 | 9.09E-07 | 9.09E-07 | 4.50E-07 |
| 1967 | 256674.4 | 4083835 | 1.23E-06 | 1.77E-06 | 1.31E-05 | 1.31E-05 | 7.28E-06 | 1.86E-07 | 2.70E-06 | 2.04E-06 | 2.04E-06 | 1.12E-06 | 1.01E-07 | 1.46E-06 | 9.07E-07 | 9.07E-07 | 4.49E-07 |
| 1968 | 256714.4 | 4083817 | 1.22E-06 | 1.77E-06 | 1.30E-05 | 1.30E-05 | 7.27E-06 | 1.86E-07 | 2.70E-06 | 2.04E-06 | 2.04E-06 | 1.12E-06 | 1.01E-07 | 1.46E-06 | 9.06E-07 | 9.06E-07 | 4.48E-07 |
| 1969 | 256754.4 | 4083798 | 1.22E-06 | 1.77E-05 | 1.30E-05 | 1.30E-05 | 7.26E-06 | 1.85E-07 | 2.69E-06 | 2.03E-06 | 2.03E-06 | 1.12E-06 | 1.01E-07 | 1.46E-06 | 9.04E-07 | 9.04E-07 | 4.48E-07 |
| 1970 | 256794.4 | 4083780 | 1.22E-06 | 1.76E-05 | 1.30E-05 | 1.30E-05 | 7.23E-06 | 1.85E-07 | 2.68E-06 | 2.03E-06 | 2.03E-06 | 1.11E-06 | 1.00E-07 | 1.45E-06 | 9.01E-07 | 9.01E-07 | 4.46E-07 |
| 1971 | 256834.3 | 4083761 | 1.21E-06 | 1.75E-05 | 1.29E-05 | 1.29E-05 | 7.21E-06 | 1.84E-07 | 2.67E-06 | 2.02E-06 | 2.02E-06 | 1.11E-06 | 1.00E-07 | 1.45E-06 | 8.98E-07 | 8.98E-07 | 4.45E-07 |
| 1972 | 256874.3 | 4083743 | 1.21E-06 | 1.75E-05 | 1.29E-05 | 1.29E-05 | 7.20E-06 | 1.84E-07 | 2.67E-06 | 2.02E-06 | 2.02E-06 | 1.11E-06 | 9.98E-08 | 1.44E-06 | 8.97E-07 | 8.97E-07 | 4.44E-07 |
| 1973 | 256914.3 | 4083724 | 1.21E-06 | 1.75E-05 | 1.29E-05 | 1.29E-05 | 7.17E-06 | 1.83E-07 | 2.86E-06 | 2.01E-06 | 2.01E-06 | 1.10E-06 | 9.95E-08 | 1.44E-06 | 8.94E-07 | 8.94E-07 | 4.42E-07 |
| 1974 | 256954.3 | 4083706 | 1.20E-06 | 1.74E-05 | 1.28E-05 | 1.28E-06 | 7.15E-06 | 1.83E-07 | 2.65E-06 | 2.00E-06 | 2.00E-06 | 1.10E-06 | 9.91E-08 | 1.43E-06 | 8.91E-07 | 8.91E-07 | 4.41E-07 |
| 1975 | 256994.3 | 4083687 | 1.20E-06 | 1.73E-06 | 1.28E-05 | 1.28E-06 | 7.12E-06 | 1.82E-07 | 2.64E-06 | 2.00E-06 | 2.00E-06 | 1.10E-06 | 9.85E-08 | 1.43E-06 | 8.88E-07 | 8.88E-07 | 4.39E-07 |
| 1976 | 257034.3 | 4083669 | 1.19E-06 | 1.72E-05 | 1.27E-05 | 1.27E-06 | 7.09E-06 | 1.81E-07 | 2.63E-06 | 1.98E-06 | 1.98E-06 | 1.09E-06 | 9.83E-08 | 1.42E-06 | 8.83E-07 | 8.83E-07 | 4.37E-07 |
| 1977 | 257074.3 | 4083650 | 1.18E-06 | 1.71E-05 | 1.26E-06 | 1.26E-05 | 7.04E-06 | 1.80E-07 | 2.61E-06 | 1.97E-06 | 1.97E-06 | 1.08E-06 | 9.76E-08 | 1.41E-06 | 8.77E-07 | 8.77E-07 | 4.34E-07 |
| 1978 | 257114.2 | 4083632 | 1.17E-06 | 1.70E-05 | 1.25E-05 | 1.25E-05 | 6.98E-06 | 1.78E-07 | 2.59E-06 | 1.95E-06 | 1.95E-06 | 1.07E-06 | 9.68E-08 | 1.40E-06 | 8.70E-07 | 8.70E-07 | 4.30E-07 |
| 1979 | 257154.2 | 4083613 | 1.16E-06 | 1.68E-05 | 1.24E-05 | 1.24E-05 | 6.91E-06 | 1.76E-07 | 2.56E-06 | 1.93E-06 | 1.93E-06 | 1.06E-06 | 9.58E-08 | 1.39E-06 | 8.60E-07 | 8.60E-07 | 4.26E-07 |
| 1980 | 257194.2 | 4083595 | 1.15E-06 | 1.66E-05 | 1.22E-05 | 1.22E-05 | 6.81E-06 | 1.74E-07 | 2.52E-06 | 1.91E-06 | 1.91E-06 | 1.05E-06 | 9.44E-08 | 1.37E-06 | 8.48E-07 | 8.48E-07 | 4.20E-07 |
| 1981 | 257234.2 | 4083576 | 1.13E-06 | 1.63E-05 | 1.20E-05 | 1.20E-05 | 6.70E-06 | 1.71E-07 | 2.48E-06 | 1.88E-06 | 1.88E-06 | 1.03E-06 | 9.29E-08 | 1.34E-06 | 8.35E-07 | 8.35E-07 | 4.13E-07 |
| 1982 | 257274.2 | 4083558 | 1.11E-06 | 1.60E-05 | 1.18E-06 | 1.18E-06 | 6.59E-06 | 1.68E-07 | 2.44E-06 | 1.85E-06 | 1.85E-06 | 1.01E-06 | 9.14E-08 | 1.32E-06 | 8.21E-07 | 8.21E-07 | 4.06E-07 |
| 1983 | 257314.2 | 4083539 | 1.09E-06 | 1.58E-05 | 1.16E-05 | 1.16E-06 | 6.48E-06 | 1.65E-07 | 2.40E-06 | 1.81E-06 | 1.81E-06 | 9.98E-07 | 8.99E-08 | 1.30E-06 | 8.07E-07 | 8.07E-07 | 4.00E-07 |
| 1984 | 257354.2 | 4083521 | 1.08E-06 | 1.56E-06 | 1.15E-05 | 1.15E-05 | 6.39E-06 | 1.63E-07 | 2.37E-06 | 1.79E-06 | 1.79E-06 | 9.84E-07 | 8.87E-08 | 1.28E-06 | 7.97E-07 | 7.97E-07 | 3.94E-07 |
| 1985 | 257394.2 | 4083503 | 1.07E-06 | 1.54E-05 | 1.14E-05 | 1.14E-05 | 6.33E-06 | 1.62E-07 | 2.35E-06 | 1.77E-06 | 1.77E-06 | 9.75E-07 | 8.78E-08 | 1.27E-06 | 7.89E-07 | 7.89E-07 | 3.91E-07 |
| 1986 | 257434.1 | 4083484 | 1.06E-06 | 1.54E-05 | 1.13E-05 | 1.13E-05 | 6.31E-06 | 1.61E-07 | 2.34E-06 | 1.77E-06 | 1.77E-06 | 9.71E-07 | 8.75E-08 | 1.27E-06 | 7.86E-07 | 7.86E-07 | 3.89E-07 |
| 1987 | 256057.6 | 4085033 | 3.50E-06 | 5.07E-05 | 3.74E-05 | 3.74E-05 | 2.08E-05 | 5.32E-07 | 7.72E-06 | 5.83E-06 | 5.83E-06 | 3.21E-06 | 2.89E-07 | 4.18E-06 | 2.59E-06 | 2.59E-06 | 1.28E-06 |
| 1988 | 256059.2 | 4085077 | 3.64E-06 | 5.27E-05 | 3.88E-05 | 3.88E-05 | 2.17E-05 | 5.53E-07 | 8.03E-06 | 6.06E-06 | 6.06E-06 | 3.33E-06 | 3.00E-07 | 4.34E-06 | 2.70E-06 | 2.70E-06 | 1.34E-06 |
| 1989 | 256060.9 | 4085122 | 3.72E-06 | 5.39E-06 | 3.97E-05 | 3.97E-05 | 2.21E-05 | 5.65E-07 | 8.20E-06 | 6.20E-06 | 6.20E-06 | 3.41E-06 | 3.07E-07 | 4.44E-06 | 2.76E-06 | 2.76E-06 | 1.36E-06 |
| 1990 | 256062.5 | 4085167 | 3.76E-06 | 5.44E-05 | 4.01E-05 | 4.01E-05 | 2.24E-06 | 5.71E-07 | 8.29E-06 | 6.27E-06 | 6.27E-06 | 3.44E-06 | 3.10E-07 | 4.49E-06 | 2.79E-06 | 2.79E-06 | 1.38E-06 |
| 1991 | 256064.2 | 4085211 | 3.79E-06 | 5.49E-06 | 4.05E-05 | 4.05E-05 | 2.26E-06 | 5.76E-07 | 8.36E-06 | 6.32E-06 | 6.32E-06 | 3.47E-06 | 3.13E-07 | 4.52E-06 | 2.81E-06 | 2.81E-06 | 1.39E-06 |
| 1992 | 257564.3 | 4085181 | 4.57E-04 | 6.61E-03 | 4.87E-03 | 4.87E-03 | 2.72E-03 | 6.94E-05 | 1.01E-03 | 7.61E-04 | 7.61E-04 | 4.18E-04 | 3.77E-05 | 5.45E-04 | 3.38E-04 | 3.38E-04 | 1.68E-04 |
| 1993 | 257588.6 | 4085180 | 5.39E-04 | 7.79E-03 | 5.75E-03 | 5.75E-03 | 3.20E-03 | 8.18E-05 | 1.19E-03 | 8.97E-04 | 8.97E-04 | 4.93E-04 | 4.44E-05 | 6.43E-04 | 3.99E-04 | 3.99E-04 | 1.98E-04 |
| 1994 | 257612.8 | 4085178 | 5.88E-04 | 8.50E-03 | 6.26E-03 | 6.26E-03 | 3.49E-03 | 8.92E-06 | 1.29E-03 | 9.78E-04 | 9.78E-04 | 5.38E-04 | 4.84E-05 | 7.01E-04 | 4.35E-04 | 4.35E-04 | 2.15E-04 |
| 1995 | 257637.1 | 4085177 | 6.18E-04 | 8.93E-03 | 6.58E-03 | 6.58E-03 | 3.67E-03 | 9.37E-05 | 1.36E-03 | 1.03E-03 | 1.03E-03 | 5.65E-04 | 5.09E-05 | 7.36E-04 | 4.57E-04 | 4.57E-04 | 2.26E-04 |
| 1996 | 257661.4 | 4085176 | 6.38E-04 | 9.22E-03 | 6.80E-03 | 6.80E-03 | 3.79E-03 | 9.68E-05 | 1.41E-03 | 1.06E-03 | 1.06E-03 | 5.84E-04 | 5.26E-06 | 7.60E-04 | 4.72E-04 | 4.72E-04 | 2.34E-04 |
| 1997 | 257685.7 | 4085175 | 6.52E-04 | 9.43E-03 | 6.95E-03 | 6.95E-03 | 3.88E-03 | 9.90E-05 | 1.44E-03 | 1.09E-03 | 1.09E-03 | 5.97E-04 | 5.37E-06 | 7.77E-04 | 4.83E-04 | 4.83E-04 | 2.39E-04 |
| 1998 | 257710 | 4085174 | 6.63E-04 | 9.58E-03 | 7.06E-03 | 7.06E-03 | 3.94E-03 | 1.01E-04 | 1.46E-03 | 1.10E-03 | 1.10E-03 | 6.06E-04 | 5.46E-06 | 7.90E-04 | 4.91E-04 | 4.91E-04 | 2.43E-04 |
| 1999 | 257734.2 | 4085173 | 6.70E-04 | 9.69E-03 | 7.14E-03 | 7.14E-03 | 3.98E-03 | 1.02E-04 | 1.48E-03 | 1.12E-03 | 1.12E-03 | 6.13E-04 | 5.52E-05 | 7.99E-04 | 4.96E-04 | 4.96E-04 | 2.46E-04 |
| 2000 | 257758.5 | 4085172 | 6.76E-04 | 9.78E-03 | 7.21E-03 | 7.21E-03 | 4.02E-03 | 1.03E-04 | 1.49E-03 | 1.13E-03 | 1.13E-03 | 6.19E-04 | 5.57E-05 | 8.06E-04 | 5.01E-04 | 5.01E-04 | 2.48E-04 |
| 2001 | 257782.8 | 4085171 | 6.80E-04 | 9.84E-03 | 7.25E-03 | 7.25E-03 | 4.04E-03 | 1.03E-04 | 1.50E-03 | 1.13E-03 | 1.13E-03 | 6.22E-04 | 5.61E-06 | 8.11E-04 | 5.04E-04 | 5.04E-04 | 2.49E-04 |
| 2002 | 257807.1 | 4085170 | 6.83E-04 | 9.88E-03 | 7.28E-03 | 7.28E-03 | 4.06E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.25E-04 | 5.63E-06 | 8.14E-04 | 5.06E-04 | 5.06E-04 | 2.50E-04 |
| 2003 | 257831.4 | 4085169 | 6.85E-04 | 9.91E-03 | 7.30E-03 | 7.30E-03 | 4.07E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.27E-04 | 5.65E-05 | 8.17E-04 | 5.07E-04 | 5.07E-04 | 2.51E-04 |
| 2004 | 257855.7 | 4085168 | 6.85E-04 | 9.93E-03 | 7.32E-03 | 7.32E-03 | 4.08E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.28E-04 | 5.66E-05 | 8.18E-04 | 5.08E-04 | 5.08E-04 | 2.52E-04 |
| 2005 | 257879.9 | 4085167 | 6.87E-04 | 9.94E-03 | 7.32E-03 | 7.32E-03 | 4.08E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.29E-04 | 5.66E-06 | 8.19E-04 | 5.09E-04 | 5.09E-04 | 2.52E-04 |
| 2006 | 257904.2 | 4085166 | 6.87E-04 | 9.93E-03 | 7.32E-03 | 7.32E-03 | 4.08E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.29E-04 | 5.66E-06 | 8.19E-04 | 5.09E-04 | 5.09E-04 | 2.52E-04 |
| 2007 | 257928.5 | 4085164 | 6.86E-04 | 9.93E-03 | 7.32E-03 | 7.32E-03 | 4.08E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.28E-04 | 5.66E-05 | 8.18E-04 | 5.08E-04 | 5.08E-04 | 2.52E-04 |
| 2008 | 257952.8 | 4085163 | 6.85E-04 | 9.91E-03 | 7.30E-03 | 7.30E-03 | 4.07E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.27E-04 | 5.65E-05 | 8.17E-04 | 5.07E-04 | 5.07E-04 | 2.51E-04 |
| 2009 | 257977.1 | 4085162 | 6.83E-04 | 9.88E-03 | 7.28E-03 | 7.28E-03 | 4.06E-03 | 1.04E-04 | 1.50E-03 | 1.14E-03 | 1.14E-03 | 6.25E-04 | 5.63E-05 | 8.14E-04 | 5.06E-04 | 5.06E-04 | 2.50E-04 |
| 2010 | 258001.3 | 4085161 | 6.80E-04 | 9.84E-03 | 7.25E-03 | 7.25E-03 | 4.04E-03 | 1.03E-04 | 1.50E-03 | 1.13E-03 | 1.13E-03 | 6.23E-04 | 5.61E-05 | 8.11E-04 | 5.04E-04 | 5.04E-04 | 2.49E-04 |
| 2011 | 258025.6 | 4085160 | 6.77E-04 | 9.79E-03 | 7.22E-03 | 7.22E-03 | 4.02E-03 | 1.03E-04 | 1.49E-03 | 1.13E-03 | 1.13E-03 | 6.20E-04 | 5.58E-06 | 8.07E-04 | 5.01E-04 | 5.01E-04 | 2.48E-04 |
| 2012 | 258049.9 | 4085159 | 6.73E-04 | 9.74E-03 | 7.18E-03 | 7.18E-03 | 4.00E-03 | 1.02E-04 | 1.48E-03 | 1.12E-03 | 1.12E-03 | 6.16E-04 | 5.55E-06 | 8.03E-04 | 4.98E-04 | 4.98E-04 | 2.47E-04 |
| 2013 | 258074.2 | 4085158 | 6.68E-04 | 9.66E-03 | 7.12E-03 | 7.12E-03 | 3.97E-03 | 1.01E-04 | 1.47E-03 | 1.11E-03 | 1.11E-03 | 6.11E-04 | 5.50E-05 | 7.96E-04 | 4.95E-04 | 4.95E-04 | 2.45E-04 |
| 2014 | 258098.5 | 4085157 | 6.50E-04 | 9.41E-03 | 6.93E-03 | 6.93E-03 | 3.87E-03 | 9.87E-05 | 1.43E-03 | 1.08E-03 | 1.08E-03 | 5.95E-04 | 5.36E-06 | 7.75E-04 | 4.82E-04 | 4.82E-04 | 2.38E-04 |
| 2015 | 258122.8 | 4085156 | 6.42E-04 | 9.28E-03 | 6.84E-03 | 6.84E-03 | 3.81E-03 | 9.74E-05 | 1.41E-03 | 1.07E-03 | 1.07E-03 | 5.87E-04 | 5.29E-05 | 7.65E-04 | 4.75E-04 | 4.75E-04 | 2.35E-04 |
| 2016 | 258147 | 4085155 | 6.32E-04 | 9.14E-03 | 6.73E-03 | 6.73E-03 | 3.75E-03 | 9.59E-05 | 1.39E-03 | 1.05E-03 | 1.05E-03 | 5.78E-04 | 5.21E-05 | 7.53E-04 | 4.68E-04 | 4.68E-04 | 2.32E-04 |
| 2017 | 258171.3 | 4085154 | 6.19E-04 | 8.96E-03 | 6.60E-03 | 6.60E-03 | 3.68E-03 | 9.40E-05 | 1.36E-03 | 1.03E-03 | 1.03E-03 | 5.67E-04 | 5.10E-05 | 7.38E-04 | 4.59E-04 | 4.59E-04 | 2.27E-04 |
| 2018 | 258195.6 | 4085153 | 6.03E-04 | 8.72E-03 | 6.43E-03 | 6.43E-03 | 3.58E-03 | 9.15E-05 | 1.33E-03 | 1.00E-03 | 1.00E-03 | 5.52E-04 | 4.97E-05 | 7.19E-04 | 4.47E-04 | 4.47E-04 | 2.21E-04 |
| 2019 | 258219.9 | 4085152 | 5.82E-04 | 8.42E-03 | 6.20E-03 | 6.20E-03 | 3.46E-03 | 8.83E-05 | 1.28E-03 | 9.69E-04 | 9.69E-04 | 5.33E-04 | 4.80E-05 | 6.94E-04 | 4.31E-04 | 4.31E-04 | 2.13E-04 |
| 2020 | 258244.2 | 4085150 | 5.55E-04 | 8.02E-03 | 5.91E-03 | 5.91E-03 | 3.30E-03 | 8.42E-05 | 1.22E-03 | 9.23E-04 | 9.23E-04 | 5.08E-04 | 4.57E-05 | 6.61E-04 | 4.11E-04 | 4.11E-04 | 2.03E-04 |
| 2021 | 258268.4 | 4085149 | 5.18E-04 | 7.50E-03 | 5.52E-03 | 5.52E-03 | 3.08E-03 | 7.86E-05 | 1.14E-03 | 8.63E-04 | 8.63E-04 | 4.74E-04 | 4.27E-05 | 6.18E-04 | 3.84E-04 | 3.84E-04 | 1.90E-04 |
| 2022 | 258292.7 | 4085148 | 4.68E-04 | 6.78E-03 | 4.99E-03 | 4.99E-03 | 2.78E-03 | 7.11E-06 | 1.03E-03 | 7.80E-04 | 7.80E-04 | 4.29E-04 | 3.86E-06 | 5.59E-04 | 3.47E-04 | 3.47E-04 | 1.72E-04 |
| 2023 | 258317 | 4085147 | 4.00E-04 | 5.79E-03 | 4.26E-03 | 4.26E-03 | 2.38E-03 | 6.07E-06 | 8.81E-04 | 6.66E-04 | 6.66E-04 | 3.66E-04 | 3.30E-05 | 4.77E-04 | 2.96E-04 | 2.96E-04 | 1.47E-04 |
| 2024 | 258341.3 | 4085146 | 3.11E-04 | 4.51E-03 | 3.32E-03 | 3.32E-03 | 1.85E-03 | 4.73E-05 | 6.86E-04 | 5.18E-04 | 5.18E-04 | 2.85E-04 | 2.57E-05 | 3.71E-04 | 2.31E-04 | 2.31E-04 | 1.14E-04 |
| 2025 | 258365.6 | 4085145 | 2.24E-04 | 3.24E-03 | 2.39E-03 | 2.39E-03 | 1.33E-03 | 3.40E-05 | 4.94E-04 | 3.73E-04 | 3.73E-04 | 2.05E-04 | 1.85E-05 | 2.67E-04 | 1.66E-04 | 1.66E-04 | 8.22E-05 |
| 2026 | 257547.3 | 4085199 | 3.17E-04 | 4.58E-03 | 3.37E-03 | 3.37E-03 | 1.88E-03 | 4.80E-05 | 6.97E-04 | 5.27E-04 | 5.27E-04 | 2.90E-04 | 2.61E-05 | 3.77E-04 | 2.34E-04 | 2.34E-04 | 1.16E-04 |
| 2027 | 257589.7 | 4085204 | 3.68E-04 | 5.32E-03 | 3.92E-03 | 3.92E-03 | 2.19E-03 | 5.59E-05 | 8.11E-04 | 6.13E-04 | 6.13E-04 | 3.37E-04 | 3.03E-05 | 4.39E-04 | 2.73E-04 | 2.73E-04 | 1.35E-04 |
| 2028 | 257613.9 | 4085203 | 3.96E-04 | 5.72E-03 | 4.22E-03 | 4.22E-03 | 2.35E-03 | 6.00E-05 | 8.71E-04 | 6.58E-04 | 6.58E-04 | 3.62E-04 | 3.26E-05 | 4.72E-04 | 2.93E-04 | 2.93E-04 | 1.45E-04 |
| 2029 | 257638.2 | 4085202 | 4.15E-04 | 6.00E-03 | 4.42E-03 | 4.42E-03 | 2.47E-03 | 6.30E-05 | 9.14E-04 | 6.90E-04 | 6.90E-04 | 3.80E-04 | 3.42E-05 | 4.95E-04 | 3.07E-04 | 3.07E-04 | 1.52E-04 |
| 2030 | 257662.5 | 4085201 | 4.29E-04 | 6.20E-03 | 4.57E-03 | 4.57E-03 | 2.55E-03 | 6.51E-05 | 9.44E-04 | 7.13E-04 | 7.13E-04 | 3.92E-04 | 3.53E-05 | 5.11E-04 | 3.17E-04 | 3.17E-04 | 1.57E-04 |
| 2031 | 257686.8 | 4085200 | 4.39E-04 | 6.35E-03 | 4.68E-03 | 4.68E-03 | 2.61E-03 | 6.66E-05 | 9.67E-04 | 7.31E-04 | 7.31E-04 | 4.02E-04 | 3.62E-06 | 5.23E-04 | 3.25E-04 | 3.25E-04 | 1.61E-04 |
| 2032 | 257711.1 | 4085199 | 4.47E-04 | 6.45E-03 | 4.76E-03 | 4.76E-03 | 2.66E-03 | 6.78E-05 | 9.85E-04 | 7.44E-04 | 7.44E-04 | 4.09E-04 | 3.68E-05 | 5.33E-04 | 3.31E-04 | 3.31E-04 | 1.64E-04 |
| 2033 | 257735.4 | 4085198 | 4.53E-04 | 6.55E-03 | 4.83E-03 | 4.83E-03 | 2.69E-03 | 6.87E-05 | 9.98E-04 | 7.54E-04 | 7.54E-04 | 4.14E-04 | 3.73E-05 | 5.40E-04 | 3.35E-04 | 3.35E-04 | 1.66E-04 |
| 2034 | 257759.6 | 4085197 | 4.58E-04 | 6.62E-03 | 4.88E-03 | 4.88E-03 | 2.72E-03 | 6.94E-05 | 1.01E-03 | 7.62E-04 | 7.62E-04 | 4.19E-04 | 3.77E-05 | 5.45E-04 | 3.39E-04 | 3.39E-04 | 1.68E-04 |
| 2035 | 257783.9 | 4085196 | 4.61E-04 | 6.67E-03 | 4.92E-03 | 4.92E-03 | 2.74E-03 | 7.00E-05 | 1.02E-03 | 7.68E-04 | 7.68E-04 | 4.22E-04 | 3.80E-05 | 5.50E-04 | 3.41E-04 | 3.41E-04 | 1.69E-04 |
| 2036 | 257808.2 | 4085195 | 4.64E-04 | 6.71E-03 | 4.94E-03 | 4.94E-03 | 2.76E-03 | 7.04E-05 | 1.02E-03 | 7.72E-04 | 7.72E-04 | 4.24E-04 | 3.82E-05 | 5.53E-04 | 3.43E-04 | 3.43E-04 | 1.70E-04 |
| 2037 | 257832.5 | 4085194 | 4.66E-04 | 6.74E-03 | 4.96E-03 | 4.96E-03 | 2.77E-03 | 7.07E-05 | 1.03E-03 | 7.75E-04 | 7.75E-04 | 4.26E-04 | 3.84E-05 | 5.55E-04 | 3.45E-04 | 3.45E-04 | 1.71E-04 |
| 2038 | 257856.8 | 4085193 | 4.67E-04 | 6.75E-03 | 4.98E-03 | 4.98E-03 | 2.77E-03 | 7.09E-05 | 1.03E-03 | 7.77E-04 | 7.77E-04 | 4.27E-04 | 3.85E-05 | 5.57E-04 | 3.46E-04 | 3.46E-04 | 1.71E-04 |
| 2039 | 257881 | 4085192 | 4.67E-04 | 6.76E-03 | 4.98E-03 | 4.98E-03 | 2.78E-03 | 7.09E-05 | 1.03E-03 | 7.78E-04 | 7.78E-04 | 4.28E-04 | 3.85E-06 | 5.57E-04 | 3.46E-04 | 3.46E-04 | 1.71E-04 |
| 2040 | 257905.3 | 4085190 | 4.67E-04 | 6.76E-03 | 4.98E-03 | 4.98E-03 | 2.78E-03 | 7.10E-05 | 1.03E-03 | 7.78E-04 | 7.78E-04 | 4.28E-04 | 3.85E-06 | 5.57E-04 | 3.46E-04 | 3.46E-04 | 1.71E-04 |
| 2041 | 257929.6 | 4085189 | 4.67E-04 | 6.75E-03 | 4.98E-03 | 4.98E-03 | 2.77E-03 | 7.08E-05 | 1.03E-03 | 7.77E-04 | 7.77E-04 | 4.27E-04 | 3.85E-05 | 5.57E-04 | 3.46E-04 | 3.46E-04 | 1.71E-04 |
| 2042 | 257953.9 | 4085188 | 4.66E-04 | 6.73E-03 | 4.96E-03 | 4.96E-03 | 2.77E-03 | 7.07E-06 | 1.03E-03 | 7.75E-04 | 7.75E-04 | 4.26E-04 | 3.84E-06 | 5.55E-04 | 3.45E-04 | 3.45E-04 | 1.71E-04 |
| 2043 | 257978.2 | 4085187 | 4.58E-04 | 6.62E-03 | 4.88E-03 | 4.88E-03 | 2.72E-03 | 6.95E-06 | 1.01E-03 | 7.62E-04 | 7.62E-04 | 4.19E-04 | 3.78E-05 | 5.46E-04 | 3.39E-04 | 3.39E-04 | 1.68E-04 |
| 2044 | 258002.5 | 4085186 | 4.55E-04 | 6.59E-03 | 4.85E-03 | 4.85E-03 | 2.71E-03 | 6.91E-05 | 1.00E-03 | 7.58E-04 | 7.58E-04 | 4.17E-04 | 3.75E-06 | 5.43E-04 | 3.37E-04 | 3.37E-04 | 1.67E-04 |
| 2045 | 258026.7 | 4085185 | 4.52E-04 | 6.54E-03 | 4.82E-03 | 4.82E-03 | 2.69E-03 | 6.86E-05 | 9.96E-04 | 7.53E-04 | 7.53E-04 | 4.14E-04 | 3.73E-05 | 5.39E-04 | 3.35E-04 | 3.35E-04 | 1.66E-04 |
| 2046 | 258051 | 4085184 | 4.48E-04 | 6.48E-03 | 4.78E-03 | 4.78E-03 | 2.66E-03 | 6.80E-05 | 9.87E-04 | 7.46E-04 | 7.46E-04 | 4.10E-04 | 3.69E-05 | 5.34E-04 | 3.32E-04 | 3.32E-04 | 1.64E-04 |
| 2047 | 258075.3 | 4085183 | 4.43E-04 | 6.40E-03 | 4.72E-03 | 4.72E-03 | 2.63E-03 | 6.72E-05 | 9.75E-04 | 7.37E-04 | 7.37E-04 | 4.05E-04 | 3.65E-05 | 5.28E-04 | 3.28E-04 | 3.28E-04 | 1.62E-04 |
| 2048 | 258099.6 | 4085182 | 4.36E-04 | 6.31E-03 | 4.65E-03 | 4.65E-03 | 2.59E-03 | 6.62E-05 | 9.61E-04 | 7.26E-04 | 7.26E-04 | 3.99E-04 | 3.60E-06 | 5.20E-04 | 3.23E-04 | 3.23E-04 | 1.60E-04 |
| 2049 | 258123.9 | 4085181 | 4.28E-04 | 6.19E-03 | 4.56E-03 | 4.56E-03 | 2.54E-03 | 6.50E-05 | 9.44E-04 | 7.13E-04 | 7.13E-04 | 3.92E-04 | 3.53E-05 | 5.11E-04 | 3.17E-04 | 3.17E-04 | 1.57E-04 |
| 2050 | 258148.1 | 4085180 | 4.18E-04 | 6.05E-03 | 4.46E-03 | 4.45E-03 | 2.49E-03 | 6.35E-05 | 9.22E-04 | 6.96E-04 | 6.96E-04 | 3.83E-04 | 3.45E-05 | 4.99E-04 | 3.10E-04 | 3.10E-04 | 1.53E-04 |
| 2051 | 258172.4 | 4085179 | 4.06E-04 | 5.88E-03 | 4.33E-03 | 4.33E-03 | 2.41E-03 | 6.16E-06 | 8.95E-04 | 6.76E-04 | 6.76E-04 | 3.72E-04 | 3.35E-05 | 4.84E-04 | 3.01E-04 | 3.01E-04 | 1.49E-04 |
| 2052 | 258196.7 | 4085178 | 3.91E-04 | 5.66E-03 | 4.17E-03 | 4.17E-03 | 2.32E-03 | 5.93E-05 | 8.62E-04 | 6.51E-04 | 6.51E-04 | 3.58E-04 | 3.22E-05 | 4.66E-04 | 2.90E-04 | 2.90E-04 | 1.43E-04 |
| 2053 | 258221 | 4085177 | 3.72E-04 | 5.38E-03 | 3.97E-03 | 3.97E-03 | 2.21E-03 | 5.65E-05 | 8.20E-04 | 6.19E-04 | 6.19E-04 | 3.41E-04 | 3.07E-05 | 4.44E-04 | 2.76E-04 | 2.76E-04 | 1.36E-04 |
| 2054 | 258245.3 | 4085175 | 3.48E-04 | 5.04E-03 | 3.71E-03 | 3.71E-03 | 2.07E-03 | 5.29E-05 | 7.68E-04 | 5.80E-04 | 5.80E-04 | 3.19E-04 | 2.87E-05 | 4.15E-04 | 2.58E-04 | 2.58E-04 | 1.28E-04 |
| 2055 | 258269.6 | 4085174 | 3.19E-04 | 4.61E-03 | 3.40E-03 | 3.40E-03 | 1.90E-03 | 4.84E-06 | 7.03E-04 | 5.31E-04 | 5.31E-04 | 2.92E-04 | 2.63E-05 | 3.80E-04 | 2.36E-04 | 2.36E-04 | 1.17E-04 |
| 2056 | 258293.8 | 4085173 | 2.83E-04 | 4.09E-03 | 3.02E-03 | 3.02E-03 | 1.68E-03 | 4.29E-05 | 6.23E-04 | 4.71E-04

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1851 | 256556.3 | 4084726 | 2.99E-06 | 4.32E-05 | 3.18E-05 | 3.18E-05 | 1.77E-05 | 4.53E-07 | 6.58E-06 | 4.97E-06 | 4.97E-06 | 2.73E-06 | 2.46E-07 | 3.56E-06 | 2.21E-06 | 2.21E-06 | 1.09E-05 |
| 1852 | 256571.6 | 4084685 | 2.85E-06 | 4.12E-05 | 3.03E-06 | 3.03E-05 | 1.69E-05 | 4.32E-07 | 6.27E-06 | 4.74E-06 | 4.74E-06 | 2.60E-06 | 2.35E-07 | 3.39E-06 | 2.11E-06 | 2.11E-06 | 1.04E-05 |
| 1853 | 256587 | 4084643 | 2.69E-06 | 3.90E-05 | 2.87E-05 | 2.87E-05 | 1.60E-05 | 4.09E-07 | 5.94E-06 | 4.49E-06 | 4.49E-06 | 2.47E-06 | 2.22E-07 | 3.21E-06 | 2.00E-06 | 2.00E-06 | 9.88E-07 |
| 1854 | 256602.3 | 4084602 | 2.53E-06 | 3.65E-05 | 2.69E-06 | 2.69E-05 | 1.50E-05 | 3.83E-07 | 5.57E-06 | 4.21E-06 | 4.21E-06 | 2.31E-06 | 2.08E-07 | 3.01E-06 | 1.87E-06 | 1.87E-06 | 9.26E-07 |
| 1855 | 256617.7 | 4084561 | 2.35E-06 | 3.40E-06 | 2.51E-05 | 2.51E-05 | 1.40E-05 | 3.57E-07 | 5.18E-06 | 3.91E-06 | 3.91E-06 | 2.15E-06 | 1.94E-07 | 2.80E-06 | 1.74E-06 | 1.74E-06 | 8.62E-07 |
| 1856 | 256633 | 4084519 | 2.18E-06 | 3.16E-06 | 2.33E-05 | 2.33E-05 | 1.30E-05 | 3.31E-07 | 4.81E-06 | 3.63E-06 | 3.63E-06 | 2.00E-06 | 1.80E-07 | 2.60E-06 | 1.62E-06 | 1.62E-06 | 8.00E-07 |
| 1857 | 256648.4 | 4084478 | 2.04E-06 | 2.95E-06 | 2.17E-05 | 2.17E-05 | 1.21E-05 | 3.09E-07 | 4.49E-06 | 3.39E-06 | 3.39E-06 | 1.87E-06 | 1.68E-07 | 2.43E-06 | 1.51E-06 | 1.51E-06 | 7.47E-07 |
| 1858 | 256663.7 | 4084436 | 1.93E-06 | 2.79E-06 | 2.06E-05 | 2.06E-06 | 1.15E-05 | 2.93E-07 | 4.26E-06 | 3.22E-06 | 3.22E-06 | 1.77E-06 | 1.59E-07 | 2.30E-06 | 1.43E-06 | 1.43E-06 | 7.08E-07 |
| 1859 | 256679.1 | 4084395 | 1.86E-06 | 2.69E-06 | 1.98E-05 | 1.98E-06 | 1.10E-05 | 2.82E-07 | 4.09E-06 | 3.09E-06 | 3.09E-06 | 1.70E-06 | 1.53E-07 | 2.21E-06 | 1.37E-06 | 1.37E-06 | 6.81E-07 |
| 1860 | 256694.4 | 4084353 | 1.80E-06 | 2.61E-05 | 1.92E-06 | 1.92E-06 | 1.07E-05 | 2.74E-07 | 3.97E-06 | 3.00E-06 | 3.00E-06 | 1.65E-06 | 1.49E-07 | 2.15E-06 | 1.34E-06 | 1.34E-06 | 6.61E-07 |
| 1861 | 256709.8 | 4084312 | 1.76E-06 | 2.55E-06 | 1.88E-05 | 1.88E-06 | 1.05E-05 | 2.67E-07 | 3.88E-06 | 2.93E-06 | 2.93E-06 | 1.61E-06 | 1.45E-07 | 2.10E-06 | 1.31E-06 | 1.31E-06 | 6.46E-07 |
| 1862 | 256725.1 | 4084270 | 1.73E-06 | 2.50E-05 | 1.84E-05 | 1.84E-05 | 1.03E-05 | 2.62E-07 | 3.80E-06 | 2.87E-06 | 2.87E-06 | 1.58E-06 | 1.42E-07 | 2.06E-06 | 1.28E-06 | 1.28E-06 | 6.32E-07 |
| 1863 | 256740.5 | 4084229 | 1.69E-06 | 2.44E-05 | 1.80E-06 | 1.80E-05 | 1.00E-05 | 2.56E-07 | 3.72E-06 | 2.81E-06 | 2.81E-06 | 1.55E-06 | 1.39E-07 | 2.01E-06 | 1.25E-06 | 1.25E-06 | 6.19E-07 |
| 1864 | 256768.2 | 4084199 | 1.68E-06 | 2.43E-05 | 1.79E-05 | 1.79E-05 | 1.00E-05 | 2.55E-07 | 3.71E-06 | 2.80E-06 | 2.80E-06 | 1.54E-06 | 1.39E-07 | 2.01E-06 | 1.25E-06 | 1.25E-06 | 6.17E-07 |
| 1865 | 256808.3 | 4084180 | 1.70E-06 | 2.46E-06 | 1.81E-05 | 1.81E-05 | 1.01E-06 | 2.58E-07 | 3.75E-06 | 2.83E-06 | 2.83E-06 | 1.56E-06 | 1.40E-07 | 2.03E-06 | 1.26E-06 | 1.26E-06 | 6.23E-07 |
| 1866 | 256848.5 | 4084162 | 1.72E-06 | 2.49E-05 | 1.84E-05 | 1.84E-06 | 1.02E-05 | 2.62E-07 | 3.80E-06 | 2.87E-06 | 2.87E-06 | 1.58E-06 | 1.42E-07 | 2.05E-06 | 1.28E-06 | 1.28E-06 | 6.32E-07 |
| 1867 | 256888.6 | 4084143 | 1.75E-06 | 2.53E-06 | 1.86E-05 | 1.86E-05 | 1.04E-05 | 2.65E-07 | 3.85E-06 | 2.91E-06 | 2.91E-06 | 1.60E-05 | 1.44E-07 | 2.08E-06 | 1.29E-06 | 1.29E-06 | 6.40E-07 |
| 1868 | 256928.7 | 4084125 | 1.77E-06 | 2.56E-06 | 1.89E-05 | 1.89E-05 | 1.05E-05 | 2.69E-07 | 3.90E-06 | 2.95E-06 | 2.95E-06 | 1.62E-06 | 1.46E-07 | 2.11E-06 | 1.31E-06 | 1.31E-06 | 6.49E-07 |
| 1869 | 256968.8 | 4084106 | 1.79E-06 | 2.58E-06 | 1.90E-05 | 1.90E-05 | 1.06E-05 | 2.71E-07 | 3.94E-06 | 2.97E-06 | 2.97E-06 | 1.64E-06 | 1.47E-07 | 2.13E-06 | 1.32E-06 | 1.32E-06 | 6.55E-07 |
| 1870 | 257009 | 4084088 | 1.79E-06 | 2.59E-05 | 1.91E-06 | 1.91E-06 | 1.07E-06 | 2.72E-07 | 3.95E-06 | 2.98E-06 | 2.98E-06 | 1.64E-06 | 1.48E-07 | 2.14E-06 | 1.33E-06 | 1.33E-06 | 6.57E-07 |
| 1871 | 257049.1 | 4084069 | 1.79E-06 | 2.58E-06 | 1.90E-05 | 1.90E-05 | 1.06E-06 | 2.71E-07 | 3.94E-06 | 2.97E-06 | 2.97E-06 | 1.64E-06 | 1.47E-07 | 2.13E-06 | 1.32E-06 | 1.32E-06 | 6.55E-07 |
| 1872 | 257089.2 | 4084051 | 1.77E-06 | 2.56E-05 | 1.89E-05 | 1.89E-05 | 1.05E-05 | 2.69E-07 | 3.90E-06 | 2.95E-06 | 2.95E-06 | 1.62E-06 | 1.46E-07 | 2.11E-06 | 1.31E-06 | 1.31E-06 | 6.49E-07 |
| 1873 | 257129.3 | 4084032 | 1.75E-06 | 2.53E-05 | 1.86E-05 | 1.86E-05 | 1.04E-05 | 2.65E-07 | 3.85E-06 | 2.91E-06 | 2.91E-06 | 1.60E-06 | 1.44E-07 | 2.08E-06 | 1.29E-06 | 1.29E-06 | 6.40E-07 |
| 1874 | 257169.5 | 4084014 | 1.72E-06 | 2.49E-05 | 1.83E-05 | 1.83E-05 | 1.02E-05 | 2.61E-07 | 3.79E-06 | 2.86E-05 | 2.86E-06 | 1.57E-06 | 1.42E-07 | 2.05E-06 | 1.27E-06 | 1.27E-05 | 6.30E-07 |
| 1875 | 257209.6 | 4083995 | 1.69E-06 | 2.45E-05 | 1.80E-05 | 1.80E-06 | 1.01E-06 | 2.57E-07 | 3.73E-06 | 2.82E-06 | 2.82E-06 | 1.55E-06 | 1.40E-07 | 2.02E-06 | 1.25E-06 | 1.25E-06 | 6.20E-07 |
| 1876 | 257249.7 | 4083977 | 1.67E-06 | 2.42E-05 | 1.78E-05 | 1.78E-06 | 9.93E-06 | 2.53E-07 | 3.68E-06 | 2.78E-06 | 2.78E-06 | 1.53E-06 | 1.38E-07 | 1.99E-06 | 1.24E-06 | 1.24E-06 | 6.12E-07 |
| 1877 | 257289.9 | 4083958 | 1.66E-06 | 2.39E-05 | 1.77E-05 | 1.77E-05 | 9.84E-06 | 2.51E-07 | 3.65E-06 | 2.76E-06 | 2.76E-06 | 1.52E-06 | 1.36E-07 | 1.97E-06 | 1.23E-06 | 1.23E-06 | 6.07E-07 |
| 1878 | 257330 | 4083939 | 1.65E-06 | 2.38E-05 | 1.76E-05 | 1.76E-05 | 9.79E-06 | 2.50E-07 | 3.63E-06 | 2.74E-06 | 2.74E-06 | 1.51E-06 | 1.36E-07 | 1.96E-06 | 1.22E-06 | 1.22E-06 | 6.04E-07 |
| 1879 | 257370.1 | 4083921 | 1.65E-06 | 2.38E-05 | 1.76E-05 | 1.76E-06 | 9.79E-06 | 2.50E-07 | 3.63E-06 | 2.74E-06 | 2.74E-06 | 1.51E-06 | 1.36E-07 | 1.96E-06 | 1.22E-06 | 1.22E-06 | 6.04E-07 |
| 1880 | 257410.2 | 4083902 | 1.65E-06 | 2.39E-05 | 1.76E-05 | 1.76E-05 | 9.82E-06 | 2.51E-07 | 3.64E-06 | 2.75E-06 | 2.75E-06 | 1.51E-06 | 1.36E-07 | 1.97E-06 | 1.22E-06 | 1.22E-06 | 6.05E-07 |
| 1881 | 257450.4 | 4083884 | 1.66E-06 | 2.40E-05 | 1.77E-05 | 1.77E-06 | 9.86E-06 | 2.52E-07 | 3.66E-06 | 2.76E-06 | 2.76E-06 | 1.52E-06 | 1.37E-07 | 1.98E-06 | 1.23E-06 | 1.23E-06 | 6.08E-07 |
| 1882 | 256457.3 | 4085018 | 4.77E-06 | 6.91E-05 | 5.09E-05 | 5.09E-05 | 2.64E-05 | 7.25E-07 | 1.05E-05 | 7.95E-06 | 7.95E-06 | 4.37E-06 | 3.94E-07 | 5.69E-06 | 3.54E-06 | 3.54E-06 | 1.75E-06 |
| 1883 | 256459 | 4085063 | 5.06E-06 | 7.32E-05 | 5.39E-05 | 5.39E-05 | 3.01E-06 | 7.68E-07 | 1.11E-05 | 8.42E-06 | 8.42E-06 | 4.63E-06 | 4.17E-07 | 6.03E-06 | 3.75E-06 | 3.75E-06 | 1.85E-06 |
| 1884 | 256460.6 | 4085107 | 5.25E-06 | 7.59E-05 | 5.59E-05 | 5.59E-05 | 3.12E-06 | 7.96E-07 | 1.16E-06 | 8.73E-06 | 8.73E-06 | 4.80E-06 | 4.32E-07 | 6.25E-06 | 3.88E-06 | 3.88E-06 | 1.92E-06 |
| 1885 | 256462.3 | 4085152 | 5.38E-06 | 7.76E-05 | 5.72E-05 | 5.72E-06 | 3.19E-06 | 8.14E-07 | 1.18E-05 | 8.93E-06 | 8.93E-06 | 4.91E-06 | 4.42E-07 | 6.39E-06 | 3.97E-06 | 3.97E-06 | 1.97E-06 |
| 1886 | 256463.9 | 4085196 | 5.46E-06 | 7.90E-05 | 5.82E-05 | 5.82E-06 | 3.24E-05 | 8.28E-07 | 1.20E-05 | 9.09E-06 | 9.09E-06 | 5.00E-06 | 4.50E-07 | 6.51E-06 | 4.04E-06 | 4.04E-06 | 2.00E-06 |
| 1887 | 256264.3 | 4084983 | 3.81E-06 | 5.51E-05 | 4.06E-06 | 4.06E-05 | 2.27E-05 | 5.78E-07 | 8.40E-06 | 6.34E-06 | 6.34E-06 | 3.49E-06 | 3.14E-07 | 4.54E-06 | 2.82E-06 | 2.82E-06 | 1.40E-06 |
| 1888 | 256279.6 | 4084941 | 3.57E-06 | 5.16E-05 | 3.80E-05 | 3.80E-06 | 2.12E-05 | 5.41E-07 | 7.86E-06 | 5.94E-06 | 5.94E-06 | 3.26E-06 | 2.94E-07 | 4.25E-06 | 2.64E-06 | 2.64E-06 | 1.31E-06 |
| 1889 | 256294.9 | 4084900 | 3.32E-06 | 4.80E-05 | 3.54E-05 | 3.54E-05 | 1.97E-06 | 5.04E-07 | 7.31E-06 | 5.53E-06 | 5.53E-06 | 3.04E-06 | 2.74E-07 | 3.96E-06 | 2.46E-06 | 2.46E-06 | 1.22E-06 |
| 1890 | 256310.2 | 4084858 | 3.09E-06 | 4.47E-05 | 3.30E-05 | 3.30E-06 | 1.84E-06 | 4.69E-07 | 6.81E-06 | 5.15E-06 | 5.15E-06 | 2.83E-06 | 2.55E-07 | 3.69E-06 | 2.29E-06 | 2.29E-06 | 1.13E-06 |
| 1891 | 256325.6 | 4084817 | 2.90E-06 | 4.19E-05 | 3.09E-05 | 3.09E-05 | 1.72E-05 | 4.40E-07 | 6.39E-06 | 4.83E-06 | 4.83E-06 | 2.65E-06 | 2.39E-07 | 3.46E-06 | 2.15E-06 | 2.15E-06 | 1.06E-06 |
| 1892 | 256340.9 | 4084776 | 2.75E-06 | 3.97E-05 | 2.93E-06 | 2.93E-05 | 1.63E-06 | 4.17E-07 | 6.05E-06 | 4.57E-06 | 4.57E-06 | 2.51E-06 | 2.26E-07 | 3.27E-06 | 2.03E-06 | 2.03E-06 | 1.01E-06 |
| 1893 | 256356.2 | 4084734 | 2.62E-06 | 3.80E-05 | 2.80E-06 | 2.80E-05 | 1.56E-05 | 3.98E-07 | 5.78E-06 | 4.37E-06 | 4.37E-06 | 2.40E-06 | 2.16E-07 | 3.13E-06 | 1.94E-06 | 1.94E-06 | 9.62E-07 |
| 1894 | 256371.5 | 4084693 | 2.52E-06 | 3.65E-05 | 2.69E-05 | 2.69E-05 | 1.50E-06 | 3.83E-07 | 5.56E-06 | 4.20E-06 | 4.20E-06 | 2.31E-06 | 2.08E-07 | 3.01E-06 | 1.87E-06 | 1.87E-06 | 9.25E-07 |
| 1895 | 256386.8 | 4084652 | 2.43E-06 | 3.51E-05 | 2.59E-06 | 2.59E-06 | 1.44E-06 | 3.69E-07 | 5.35E-06 | 4.05E-06 | 4.05E-06 | 2.22E-06 | 2.00E-07 | 2.90E-06 | 1.80E-06 | 1.80E-06 | 8.91E-07 |
| 1896 | 256402.2 | 4084610 | 2.33E-06 | 3.37E-06 | 2.48E-05 | 2.48E-05 | 1.38E-06 | 3.53E-07 | 5.13E-06 | 3.87E-06 | 3.87E-06 | 2.13E-06 | 1.92E-07 | 2.78E-06 | 1.72E-06 | 1.72E-06 | 8.53E-07 |
| 1897 | 256417.5 | 4084569 | 2.21E-06 | 3.20E-05 | 2.38E-06 | 2.36E-06 | 1.31E-06 | 3.36E-07 | 4.87E-06 | 3.68E-06 | 3.68E-06 | 2.02E-06 | 1.82E-07 | 2.64E-06 | 1.64E-06 | 1.64E-06 | 8.10E-07 |
| 1898 | 256432.8 | 4084527 | 2.08E-06 | 3.00E-05 | 2.21E-06 | 2.21E-05 | 1.23E-06 | 3.15E-07 | 4.57E-06 | 3.46E-06 | 3.46E-05 | 1.90E-06 | 1.71E-07 | 2.47E-06 | 1.54E-06 | 1.54E-06 | 7.61E-07 |
| 1899 | 256448.1 | 4084486 | 1.93E-06 | 2.79E-05 | 2.06E-05 | 2.06E-06 | 1.15E-05 | 2.93E-07 | 4.25E-06 | 3.21E-06 | 3.21E-06 | 1.76E-06 | 1.59E-07 | 2.30E-06 | 1.43E-06 | 1.43E-06 | 7.07E-07 |
| 1900 | 256463.4 | 4084445 | 1.79E-06 | 2.59E-05 | 1.91E-05 | 1.91E-05 | 1.06E-06 | 2.71E-07 | 3.94E-06 | 2.98E-06 | 2.98E-06 | 1.64E-06 | 1.47E-07 | 2.13E-06 | 1.32E-06 | 1.32E-06 | 6.56E-07 |
| 1901 | 256478.7 | 4084403 | 1.67E-06 | 2.42E-05 | 1.78E-05 | 1.78E-06 | 9.93E-06 | 2.53E-07 | 3.68E-06 | 2.78E-06 | 2.78E-06 | 1.53E-06 | 1.38E-07 | 1.99E-06 | 1.24E-06 | 1.24E-06 | 6.12E-07 |
| 1902 | 256494.1 | 4084362 | 1.58E-06 | 2.28E-05 | 1.68E-05 | 1.68E-05 | 9.38E-06 | 2.39E-07 | 3.48E-06 | 2.63E-06 | 2.63E-06 | 1.44E-06 | 1.30E-07 | 1.88E-06 | 1.17E-06 | 1.17E-06 | 5.78E-07 |
| 1903 | 256509.4 | 4084321 | 1.52E-06 | 2.19E-05 | 1.62E-05 | 1.62E-05 | 9.01E-06 | 2.30E-07 | 3.34E-06 | 2.52E-06 | 2.52E-06 | 1.39E-06 | 1.25E-07 | 1.81E-06 | 1.12E-06 | 1.12E-06 | 5.56E-07 |
| 1904 | 256524.7 | 4084279 | 1.48E-06 | 2.14E-06 | 1.58E-06 | 1.58E-05 | 8.79E-06 | 2.25E-07 | 3.26E-06 | 2.46E-06 | 2.46E-06 | 1.35E-05 | 1.22E-07 | 1.76E-06 | 1.10E-06 | 1.10E-06 | 5.42E-07 |
| 1905 | 256540 | 4084238 | 1.46E-06 | 2.11E-06 | 1.56E-05 | 1.56E-05 | 8.67E-06 | 2.21E-07 | 3.21E-06 | 2.43E-06 | 2.43E-06 | 1.34E-06 | 1.20E-07 | 1.74E-06 | 1.08E-06 | 1.08E-06 | 5.35E-07 |
| 1906 | 256555.3 | 4084197 | 1.45E-06 | 2.09E-05 | 1.54E-05 | 1.54E-05 | 8.60E-06 | 2.20E-07 | 3.19E-06 | 2.41E-06 | 2.41E-06 | 1.32E-06 | 1.19E-07 | 1.72E-06 | 1.07E-06 | 1.07E-06 | 5.30E-07 |
| 1907 | 256570.7 | 4084155 | 1.44E-06 | 2.08E-06 | 1.53E-05 | 1.53E-05 | 8.54E-06 | 2.18E-07 | 3.17E-06 | 2.39E-06 | 2.39E-06 | 1.31E-06 | 1.18E-07 | 1.71E-06 | 1.06E-06 | 1.06E-06 | 5.27E-07 |
| 1908 | 256586 | 4084114 | 1.43E-06 | 2.06E-06 | 1.52E-05 | 1.52E-06 | 8.48E-06 | 2.16E-07 | 3.14E-06 | 2.37E-06 | 2.37E-06 | 1.31E-06 | 1.18E-07 | 1.70E-06 | 1.06E-06 | 1.06E-06 | 5.23E-07 |
| 1909 | 256621.3 | 4084063 | 1.42E-06 | 2.05E-06 | 1.51E-05 | 1.51E-06 | 8.42E-06 | 2.15E-07 | 3.12E-06 | 2.36E-06 | 2.36E-06 | 1.30E-06 | 1.17E-07 | 1.69E-06 | 1.05E-06 | 1.05E-06 | 5.19E-07 |
| 1910 | 256661.4 | 4084045 | 1.43E-06 | 2.07E-06 | 1.52E-05 | 1.52E-05 | 8.49E-06 | 2.17E-07 | 3.15E-06 | 2.38E-06 | 2.38E-06 | 1.31E-06 | 1.18E-07 | 1.70E-06 | 1.06E-06 | 1.06E-06 | 5.24E-07 |
| 1911 | 256701.4 | 4084026 | 1.44E-06 | 2.08E-06 | 1.53E-06 | 1.53E-05 | 8.54E-06 | 2.18E-07 | 3.17E-06 | 2.39E-06 | 2.39E-06 | 1.31E-06 | 1.18E-07 | 1.71E-06 | 1.06E-06 | 1.06E-06 | 5.27E-07 |
| 1912 | 256741.5 | 4084008 | 1.44E-06 | 2.09E-06 | 1.54E-05 | 1.54E-05 | 8.59E-06 | 2.19E-07 | 3.18E-06 | 2.40E-06 | 2.40E-06 | 1.32E-06 | 1.19E-07 | 1.72E-06 | 1.07E-06 | 1.07E-06 | 5.30E-07 |
| 1913 | 256781.5 | 4083989 | 1.45E-06 | 2.10E-06 | 1.55E-06 | 1.55E-06 | 8.63E-06 | 2.20E-07 | 3.20E-06 | 2.42E-06 | 2.42E-06 | 1.33E-06 | 1.20E-07 | 1.73E-06 | 1.08E-06 | 1.08E-06 | 5.33E-07 |
| 1914 | 256821.6 | 4083971 | 1.46E-06 | 2.11E-06 | 1.56E-05 | 1.56E-06 | 8.67E-06 | 2.21E-07 | 3.21E-06 | 2.43E-06 | 2.43E-06 | 1.34E-06 | 1.20E-07 | 1.74E-06 | 1.08E-06 | 1.08E-06 | 5.35E-07 |
| 1915 | 256861.6 | 4083952 | 1.46E-06 | 2.11E-05 | 1.56E-06 | 1.56E-05 | 8.68E-06 | 2.22E-07 | 3.22E-06 | 2.43E-06 | 2.43E-06 | 1.34E-06 | 1.20E-07 | 1.74E-06 | 1.08E-06 | 1.08E-06 | 5.36E-07 |
| 1916 | 256901.6 | 4083934 | 1.46E-06 | 2.11E-05 | 1.56E-06 | 1.56E-05 | 8.67E-06 | 2.21E-07 | 3.21E-06 | 2.43E-06 | 2.43E-06 | 1.34E-06 | 1.20E-07 | 1.74E-06 | 1.08E-06 | 1.08E-06 | 5.35E-07 |
| 1917 | 256941.7 | 4083915 | 1.45E-06 | 2.10E-06 | 1.55E-05 | 1.55E-06 | 8.62E-06 | 2.20E-07 | 3.20E-06 | 2.41E-06 | 2.41E-06 | 1.33E-06 | 1.20E-07 | 1.73E-06 | 1.07E-06 | 1.07E-06 | 5.32E-07 |
| 1918 | 256981.7 | 4083897 | 1.44E-06 | 2.08E-05 | 1.53E-06 | 1.53E-06 | 8.55E-06 | 2.18E-07 | 3.17E-06 | 2.39E-06 | 2.39E-06 | 1.32E-06 | 1.19E-07 | 1.71E-06 | 1.07E-06 | 1.07E-06 | 5.27E-07 |
| 1919 | 257021.8 | 4083878 | 1.42E-06 | 2.06E-06 | 1.52E-06 | 1.52E-05 | 8.46E-06 | 2.16E-07 | 3.14E-06 | 2.37E-06 | 2.37E-06 | 1.30E-06 | 1.17E-07 | 1.70E-06 | 1.05E-06 | 1.05E-06 | 5.22E-07 |
| 1920 | 257061.8 | 4083860 | 1.41E-06 | 2.04E-06 | 1.50E-05 | 1.50E-05 | 8.38E-06 | 2.14E-07 | 3.11E-06 | 2.35E-06 | 2.35E-06 | 1.29E-06 | 1.16E-07 | 1.68E-06 | 1.04E-06 | 1.04E-06 | 5.17E-07 |
| 1921 | 257101.9 | 4083841 | 1.40E-06 | 2.02E-06 | 1.49E-06 | 1.49E-05 | 8.31E-06 | 2.12E-07 | 3.08E-06 | 2.33E-06 | 2.33E-06 | 1.28E-06 | 1.15E-07 | 1.67E-06 | 1.03E-06 | 1.03E-06 | 5.12E-07 |
| 1922 | 257141.9 | 4083823 | 1.39E-06 | 2.00E-05 | 1.48E-05 | 1.48E-05 | 8.23E-06 | 2.10E-07 | 3.05E-06 | 2.31E-06 | 2.31E-06 | 1.27E-06 | 1.14E-07 | 1.65E-06 | 1.03E-06 | 1.03E-06 | 5.08E-07 |
| 1923 | 257182 | 4083804 | 1.37E-06 | 1.99E-05 | 1.46E-06 | 1.46E-05 | 8.16E-06 | 2.08E-07 | 3.03E-06 | 2.29E-06 | 2.29E-06 | 1.26E-06 | 1.13E-07 | 1.64E-06 | 1.02E-06 | 1.02E-06 | 5.03E-07 |
| 1924 | 257222 | 4083786 | 1.36E-06 | 1.97E-06 | 1.45E-05 | 1.45E-05 | 8.09E-06 | 2.06E-07 | 3.00E-06 | 2.26E-06 | 2.26E-06 | 1.25E-06 | 1.12E-07 | 1.62E-06 | 1.01E-06 | 1.01E-06 | 4.99E-07 |
| 1925 | 257262.1 | 4083767 | 1.35E-06 | 1.95E-05 | 1.44E-05 | 1.44E-05 | 8.03E-06 | 2.05E-07 | 2.98E-06 | 2.25E-06 | 2.25E-06 | 1.24E-06 | 1.11E-07 | 1.61E-06 | 1.00E-06 | 1.00E-06 | 4.95E-07 |
| 1926 | 257302.1 | 4083749 | 1.34E-06 | 1.94E-05 | 1.43E-05 | 1.43E-05 | 7.96E-06 | 2.03E-07 | 2.95E-06 | 2.23E-06 | 2.23E-06 | 1.23E-06 | 1.10E-07 | 1.60E-06 | 9.92E-07 | 9.92E-07 | 4.91E-07 |
| 1927 | 257342.2 | 4083730 | 1.33E-06 | 1.92E-05 | 1.42E-06 | 1.42E-05 | 7.90E-06 | 2.02E-07 | 2.93E-06 | 2.21E-06 | 2.21E-06 | 1.22E-06 | 1.10E-07 | 1.59E-06 | 9.85E-07 | 9.85E-07 | 4.87E-07 |
| 1928 | 257382.2 | 4083712 | 1.32E-06 | 1.91E-06 | 1.41E-05 | 1.41E-06 | 7.85E-06 | 2.01E-07 | 2.91E-06 | 2.20E-06 | 2.20E-06 | 1.21E-06 | 1.09E-07 | 1.58E-06 | 9.79E-07 | 9.79E-07 | 4.84E-07 |
| 1929 | 257422.2 | 4083693 | 1.32E-06 | 1.90E-06 | 1.40E-06 | 1.40E-06 | 7.82E-06 | 2.00E-07 | 2.90E-06 | 2.19E-06 | 2.19E-06 | 1.20E-06 | 1.08E-07 | 1.57E-06 | 9.74E-07 | 9.74E-07 | 4.82E-07 |
| 1930 | 257462.3 | 4083675 | 1.31E-06 | 1.90E-05 | 1.40E-05 | 1.40E-05 | 7.79E-06 | 1.99E-07 | 2.89E-06 | 2.18E-06 | 2.18E-06 | 1.20E-06 | 1.08E-07 | 1.56E-06 | 9.71E-07 | 9.71E-07 | 4.81E-07 |
| 1931 | 256257.5 | 4085025 | 4.04E-06 | 5.84E-05 | 4.31E-05 | 4.31E-05 | 2.40E-05 | 6.13E-07 | 8.90E-06 | 6.73E-06 | 6.73E-06 | 3.70E-06 | 3.33E-07 | 4.82E-06 | 2.99E-06 | 2.99E-06 | 1.48E-06 |
| 1932 | 256259.1 | 4085070 | 4.24E-06 | 6.13E-05 | 4.52E-05 | 4.52E-06 | 2.52E-05 | 6.43E-07 | 9.33E-06 | 7.05E-06 | 7.05E-06 | 3.88E-06 | 3.49E-07 | 5.05E-06 | 3.14E-06 | 3.14E-06 | 1.55E-06 |
| 1933 | 256260.8 | 4085115 | 4.35E-06 | 6.30E-05 | 4.64E-05 | 4.64E-06 | 2.59E-05 | 6.61E-07 | 9.59E-06 | 7.25E-06 | 7.25E-06 | 3.98E-06 | 3.59E-07 | 5.19E-06 | 3.22E-06 | 3.22E-05 | 1.60E-06 |
| 1934 | 256261.6 | 4085137 | 4.39E-06 | 6.35E-05 | 4.68E-05 | 4.68E-05 | 2.61E-05 | 6.67E-07 | 9.68E-06 | 7.31E-06 | 7.31E-06 | 4.02E-06 | 3.62E-07 | 5.24E-06 | 3.25E-06 | 3.25E-06 | 1.61E-06 |
| 1935 | 256263.2 | 4085181 | 4.45E-06 | 6.44E-05 | 4.74E-05 | 4.74E-05 | 2.65E-06 | 6.75E-07 | 9.81E-06 | 7.41E-06 | 7.41E-06 | 4.07E-06 | 3.67E-07 | 5.31E-06 | 3.30E-06 | 3.30E-06 | 1.63E-06 |
| 1936 | 256064.4 | 4084990 | 3.34E-06 | 4.82E-05 | 3.56E-05 | 3.56E-05 | 1.98E-05 | 5.06E-07 | 7.35E-06 | 5.55E-06 | 5.55E-06 | 3.05E-06 | 2.75E-07 | 3.98E-06 | 2.47E-06 | 2.47E-06 | 1.22E-06 |
| 1937 | 256079.7 | 4084949 | 3.16E-06 | 4.56E-05 | 3.36E-05 | 3.36E-05 | 1.88E-06 | 4.79E-07 | 6.95E-06 | 5.25E-06 | 5.25E-06 | 2.89E-06 | 2.60E-07 | 3.76E-06 | 2.34E-06 | 2.34E-06 | 1.16E-06 |
| 1938 | 256095 | 4084907 | 2.96E-06 | 4.28E-05 | 3.15E-05 | 3.15E-05 | 1.76E-05 | 4.49E-07 | 6.52E-06 | 4.93E-06 | 4.93E-06 | 2.71E-06 | 2.44E-07 | 3.53E-06 | 2.19E-06 | 2.19E-06 | 1.08E-06 |
| 1939 | 256110.3 | 4084866 | 2.77E-06 | 4.01E-05 | 2.95E-06 | 2.95E-06 | 1.65E-05 | 4.20E-07 | 6.10E-06 | 4.61E-06 | 4.61E-06 | 2.54E-06 | 2.28E-07 | 3.30E-06 | 2.05E-06 | 2.05E-06 | 1.02E-06 |
| 1940 | 256125.6 | 4084825 | 2.60E-06 | 3.76E-06 | 2.77E-06 | 2.77E-06 | 1.55E-06 | 3.95E-07 | 5.73E-06 | 4.33E-06 | 4.33E-06 | 2.38E-06 | 2.15E-07 | 3.10E-06 | 1.93E-06 | 1.93E-06 | 9.54E-07 |
| 1941 | 256140.9 | 4084783 | 2.46E-06 | 3.56E-05 | 2.63E-05 | 2.63E-05 | 1.46E-05 | 3.74E-07 | 5.43E-06 | 4.10E-06 | 4.10E-06 | 2.25E-06 | 2.03E-07 | 2.94E-06 | 1.82E-06 | 1.82E-06 | 9.03E-07 |
| 1942 | 256156.2 | 4084742 | 2.35E-06 | 3.40E-05 | 2.51E-05 | 2.51E-05 | 1.40E-06 | 3.57E-07 | 5.18E-06 | 3.92E-06 | 3.92E-06 | 2.15E-06 | 1.94E-07 | 2.80E-06 | 1.74E-06 | 1.74E-06 | 8.62E-07 |
| 1943 | 256171.5 | 4084701 | 2.26E-06 | 3.27E-05 | 2.41E-05 | 2.41E-05 | 1.35E-05 | 3.44E-07 | 4.99E-06 | 3.77E-06 | 3.77E-06 | 2.07E-06 | 1.87E-07 | 2.70E-06 | 1.68E-06 | 1.68E-06 | 8.30E-07 |
| 1944 | 256186.8 | 4084660 | 2.19E-06 | 3.17E-05 | 2.34E-05 | 2.34E-05 | 1.30E-05 | 3.32E-07 | 4.83E-06 | 3.65E-06 | 3.65E-06 | 2.00E-06 | 1.81E-07 | 2.61E-06 | 1.62E-06 | 1.62E-06 | 8.03E-07 |
| 1945 | 256202.1 | 4084618 | 2.12E-06 | 3.07E-05 | 2.26E-05 | 2.26E-05 | 1.26E-06 | 3.22E-07 | 4.68E-06 | 3.53E-06 | 3.53E-06 | 1.94E-06 | 1.75E-07 | 2.53E-06 | 1.57E-06 | 1.57E-06 | 7.78E-07 |
| 1946 | 256217.4 | 4084577 | 2.05E-06 | 2.97E-05 | 2.19E-05 | 2.19E-05 | 1.22E-05 | 3.11E-07 | 4.52E-06 | 3.41E-06 | 3.41E-06 | 1.88E-06 | 1.69E-07 | 2.45E-06 | 1.52E-06 | 1.52E-06 | 7.52E-07 |
| 1947 | 256232.7 | 4084536 | 1.97E-06 | 2.85E-05 | 2.10E-05 | 2.10E-05 | 1.17E-05 | 2.99E-07 | 4.34E-06 | 3.28E-06 | 3.28E-06 | 1.80E-06 | 1.62E-07 | 2.35E-06 | 1.46E-06 | 1.46E-06 | 7.22E-07 |
| 1948 | 256248 | 4084494 | 1.87E-06 | 2.70E-05 | 1.99E-05 | 1.99E-06 | 1.11E-05 | 2.84E-07 | 4.12E-06 | 3.11E-06 | 3.11E-06 | 1.71E-06 | 1.54E-07 | 2.23E-06 | 1.38E-06 | 1.38E-06 | 6.85E-07 |
| 1949 | 256263.3 | 4084453 | 1.75E-06 | 2.53E-05 | 1.87E-05 | 1.87E-05 | 1.04E-06 | 2.66E-07 | 3.86E-06 | 2.91E-06 | 2.91E-06 | 1.60E-06 | 1.44E-07 | 2.09E-06 | 1.30E-06 | 1.30E-05 | 6.41E-07 |
| 1950 | 256278.6 | 4084412 | 1.63E-06 | 2.36E-05 | 1.74E-06 | 1.74E-06 | 9.69E-06 | 2.48E-07 | 3.59E-06 | 2.71E-06 | 2.71E-06 | 1.49E-06 | 1.34E-07 | 1.94E-06 | 1.21E-06 | 1.21E-06 | 5.98E-07 |
| 1951 | 256293.9 | 4084370 | 1.51E-06 | 2.19E-05 | 1.61E-06 | 1.61E-06 | 8.99E-06 | 2.30E-07 | 3.33E-06 | 2.52E-06 | 2.52E-06 | 1.38E-06 | 1.25E-07 | 1.80E-06 | 1.12E-06 | 1.12E-06 | 5.54E-07 |
| 1952 | 256309.2 | 4084329 | 1.41E-06 | 2.04E-05 | 1.50E-05 | 1.50E-06 | 8.38E-06 | 2.14E-07 | 3.11E-06 | 2.35E-06 | 2.35E-06 | 1.29E-06 | 1.16E-07 | 1.68E-06 | 1.04E-06 | 1.04E-06 | 5.17E-07 |
| 1953 | 256324.4 | 4084288 | 1.33E-06 | 1.92E-05 | 1.42E-05 | 1.42E-05 | 7.90E-06 | 2.02E-07 | 2.93E-06 | 2.21E-06 | 2.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1748 | 257361.9 | 4084536 | 4.66E-06 | 6.74E-05 | 4.97E-05 | 4.97E-05 | 2.77E-05 | | 7.07E-07 | 1.03E-05 | 7.76E-06 | 7.76E-06 | 4.26E-06 | | 3.84E-07 | 5.56E-06 | 3.45E-06 | 3.45E-06 | 1.71E-06 |
| 1749 | 257400.4 | 4084518 | 4.71E-06 | 6.81E-05 | 5.02E-05 | 5.02E-05 | 2.80E-05 | | 7.15E-07 | 1.04E-05 | 7.84E-06 | 7.84E-06 | 4.31E-06 | | 3.88E-07 | 5.62E-06 | 3.49E-06 | 3.49E-06 | 1.73E-06 |
| 1750 | 257438.9 | 4084500 | 4.76E-06 | 6.89E-05 | 5.08E-05 | 5.08E-05 | 2.83E-05 | | 7.23E-07 | 1.05E-06 | 7.93E-06 | 7.93E-06 | 4.36E-06 | | 3.93E-07 | 5.68E-06 | 3.53E-06 | 3.53E-06 | 1.75E-06 |
| 1751 | 257477.4 | 4084482 | 4.83E-06 | 6.98E-05 | 5.15E-05 | 5.15E-05 | 2.87E-05 | | 7.33E-07 | 1.06E-05 | 8.04E-06 | 8.04E-06 | 4.42E-06 | | 3.98E-07 | 5.76E-06 | 3.58E-06 | 3.58E-06 | 1.77E-06 |
| 1752 | 257056.9 | 4084996 | 1.07E-06 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 6.35E-05 | | 1.62E-06 | 2.35E-05 | 1.78E-06 | 1.78E-05 | 9.78E-06 | | 8.81E-07 | 1.27E-05 | 7.91E-06 | 7.91E-06 | 3.92E-06 |
| 1753 | 257057.7 | 4085018 | 1.14E-05 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.79E-05 | | 1.73E-06 | 2.52E-05 | 1.90E-06 | 1.90E-05 | 1.04E-06 | | 9.41E-07 | 1.36E-05 | 8.46E-06 | 8.46E-06 | 4.19E-06 |
| 1754 | 257059.4 | 4085063 | 1.28E-05 | 1.85E-04 | 1.36E-04 | 1.36E-04 | 7.58E-05 | | 1.94E-06 | 2.81E-05 | 2.12E-05 | 2.12E-05 | 1.17E-05 | | 1.05E-06 | 1.52E-05 | 9.45E-06 | 9.45E-06 | 4.68E-06 |
| 1755 | 257061 | 4085107 | 1.39E-05 | 2.01E-04 | 1.48E-04 | 1.48E-04 | 8.26E-05 | | 2.11E-06 | 3.06E-05 | 2.31E-06 | 2.31E-06 | 1.27E-05 | | 1.15E-06 | 1.66E-05 | 1.03E-05 | 1.03E-05 | 5.10E-06 |
| 1756 | 257062.7 | 4085152 | 1.49E-05 | 2.16E-04 | 1.59E-04 | 1.59E-04 | 8.87E-05 | | 2.27E-06 | 3.29E-05 | 2.49E-05 | 2.49E-05 | 1.37E-05 | | 1.23E-06 | 1.78E-05 | 1.11E-06 | 1.11E-05 | 5.47E-06 |
| 1757 | 256963.7 | 4084957 | 7.91E-06 | 1.14E-04 | 8.43E-05 | 8.43E-05 | 4.70E-05 | | 1.20E-06 | 1.74E-05 | 1.32E-05 | 1.32E-05 | 7.23E-06 | | 6.52E-07 | 9.43E-06 | 5.85E-06 | 5.85E-06 | 2.90E-06 |
| 1758 | 256978.9 | 4084916 | 7.12E-06 | 1.03E-04 | 7.59E-05 | 7.59E-05 | 4.23E-05 | | 1.08E-06 | 1.57E-05 | 1.18E-05 | 1.18E-06 | 6.51E-06 | | 5.87E-07 | 8.49E-06 | 5.27E-06 | 5.27E-06 | 2.61E-06 |
| 1759 | 256994 | 4084875 | 6.42E-06 | 9.29E-05 | 6.85E-05 | 6.85E-05 | 3.82E-05 | | 9.75E-07 | 1.42E-05 | 1.07E-05 | 1.07E-05 | 5.88E-06 | | 5.29E-07 | 7.66E-06 | 4.76E-06 | 4.76E-06 | 2.35E-06 |
| 1760 | 257009.2 | 4084834 | 5.85E-06 | 8.46E-05 | 6.24E-05 | 6.24E-05 | 3.48E-05 | | 8.88E-07 | 1.29E-05 | 9.74E-06 | 9.74E-06 | 5.35E-06 | | 4.82E-07 | 6.97E-06 | 4.33E-06 | 4.33E-06 | 2.14E-06 |
| 1761 | 257024.3 | 4084793 | 5.36E-06 | 7.76E-05 | 5.72E-05 | 5.72E-05 | 3.19E-05 | | 8.14E-07 | 1.18E-05 | 8.93E-06 | 8.93E-06 | 4.91E-06 | | 4.42E-07 | 6.40E-06 | 3.97E-06 | 3.97E-06 | 1.97E-06 |
| 1762 | 257039.5 | 4084752 | 4.94E-06 | 7.14E-05 | 5.26E-05 | 5.26E-05 | 2.94E-05 | | 7.49E-07 | 1.09E-05 | 8.22E-06 | 8.22E-06 | 4.52E-06 | | 4.07E-07 | 5.89E-06 | 3.66E-06 | 3.66E-06 | 1.81E-06 |
| 1763 | 257054.6 | 4084711 | 4.57E-06 | 6.62E-05 | 4.88E-06 | 4.88E-05 | 2.72E-05 | | 6.94E-07 | 1.01E-05 | 7.61E-06 | 7.61E-06 | 4.19E-06 | | 3.77E-07 | 5.45E-06 | 3.39E-06 | 3.39E-06 | 1.68E-06 |
| 1764 | 257069.8 | 4084670 | 4.26E-06 | 6.16E-05 | 4.54E-05 | 4.54E-05 | 2.53E-05 | | 6.47E-07 | 9.39E-06 | 7.09E-06 | 7.09E-06 | 3.90E-06 | | 3.51E-07 | 5.08E-06 | 3.16E-06 | 3.16E-06 | 1.56E-06 |
| 1765 | 257084.9 | 4084630 | 3.99E-06 | 5.77E-05 | 4.25E-06 | 4.25E-05 | 2.37E-05 | | 6.05E-07 | 8.79E-06 | 6.64E-06 | 6.64E-06 | 3.65E-06 | | 3.29E-07 | 4.75E-06 | 2.95E-06 | 2.95E-06 | 1.46E-06 |
| 1766 | 257100.1 | 4084589 | 3.73E-06 | 5.39E-05 | 3.98E-05 | 3.98E-05 | 2.22E-05 | | 5.66E-07 | 8.22E-06 | 6.21E-06 | 6.21E-06 | 3.41E-06 | | 3.07E-07 | 4.45E-06 | 2.76E-06 | 2.76E-06 | 1.37E-06 |
| 1767 | 257135 | 4084539 | 3.50E-06 | 5.06E-05 | 3.73E-06 | 3.73E-05 | 2.08E-05 | | 5.31E-07 | 7.71E-06 | 5.83E-06 | 5.83E-06 | 3.20E-06 | | 2.88E-07 | 4.17E-06 | 2.59E-06 | 2.59E-06 | 1.28E-06 |
| 1768 | 257174.6 | 4084520 | 3.53E-06 | 5.11E-05 | 3.77E-05 | 3.77E-05 | 2.10E-05 | | 5.36E-07 | 7.79E-06 | 5.88E-06 | 5.88E-06 | 3.23E-06 | | 2.91E-07 | 4.21E-06 | 2.62E-06 | 2.62E-06 | 1.30E-06 |
| 1769 | 257214.2 | 4084502 | 3.59E-06 | 5.19E-05 | 3.82E-05 | 3.82E-05 | 2.13E-05 | | 5.44E-07 | 7.90E-06 | 5.97E-06 | 5.97E-06 | 3.28E-06 | | 2.96E-07 | 4.28E-06 | 2.66E-06 | 2.66E-06 | 1.31E-06 |
| 1770 | 257253.8 | 4084484 | 3.65E-06 | 5.27E-06 | 3.89E-05 | 3.89E-05 | 2.17E-05 | | 5.53E-07 | 8.03E-06 | 6.07E-06 | 6.07E-06 | 3.34E-06 | | 3.00E-07 | 4.35E-06 | 2.70E-06 | 2.70E-06 | 1.34E-06 |
| 1771 | 257293.5 | 4084465 | 3.70E-06 | 5.35E-06 | 3.95E-05 | 3.95E-05 | 2.20E-05 | | 5.62E-07 | 8.15E-06 | 6.16E-06 | 6.16E-06 | 3.39E-06 | | 3.05E-07 | 4.41E-06 | 2.74E-06 | 2.74E-06 | 1.36E-06 |
| 1772 | 257333.1 | 4084447 | 3.74E-06 | 5.41E-05 | 3.99E-05 | 3.99E-05 | 2.22E-05 | | 5.68E-07 | 8.24E-06 | 6.23E-06 | 6.23E-06 | 3.42E-06 | | 3.08E-07 | 4.46E-06 | 2.77E-06 | 2.77E-06 | 1.37E-06 |
| 1773 | 257372.7 | 4084429 | 3.76E-06 | 5.44E-05 | 4.01E-05 | 4.01E-05 | 2.24E-05 | | 5.71E-07 | 8.29E-06 | 6.27E-06 | 6.27E-06 | 3.44E-06 | | 3.10E-07 | 4.49E-06 | 2.79E-06 | 2.79E-06 | 1.38E-06 |
| 1774 | 257412.3 | 4084410 | 3.77E-06 | 5.46E-05 | 4.02E-05 | 4.02E-05 | 2.24E-05 | | 5.73E-07 | 8.32E-06 | 6.28E-06 | 6.28E-06 | 3.45E-06 | | 3.11E-07 | 4.50E-06 | 2.80E-06 | 2.80E-06 | 1.38E-06 |
| 1775 | 257451.9 | 4084392 | 3.78E-06 | 5.47E-06 | 4.03E-05 | 4.03E-05 | 2.25E-05 | | 5.74E-07 | 8.34E-06 | 6.30E-06 | 6.30E-06 | 3.46E-06 | | 3.12E-07 | 4.51E-06 | 2.80E-06 | 2.80E-06 | 1.39E-06 |
| 1776 | 257491.5 | 4084374 | 3.80E-06 | 5.49E-06 | 4.05E-05 | 4.05E-06 | 2.26E-05 | | 5.77E-07 | 8.37E-06 | 6.32E-06 | 6.32E-06 | 3.48E-06 | | 3.13E-07 | 4.53E-06 | 2.81E-06 | 2.81E-06 | 1.39E-06 |
| 1777 | 256957 | 4085000 | 8.85E-06 | 1.28E-04 | 9.43E-05 | 9.43E-05 | 5.26E-05 | | 1.34E-06 | 1.95E-06 | 1.47E-05 | 1.47E-05 | 8.09E-06 | | 7.29E-07 | 1.05E-05 | 6.55E-06 | 6.55E-06 | 3.24E-06 |
| 1778 | 256958.6 | 4085044 | 9.85E-06 | 1.42E-04 | 1.05E-04 | 1.05E-04 | 5.85E-05 | | 1.49E-06 | 2.17E-05 | 1.64E-06 | 1.64E-05 | 9.01E-06 | | 8.12E-07 | 1.17E-05 | 7.29E-06 | 7.29E-06 | 3.61E-06 |
| 1779 | 256960.3 | 4085089 | 1.07E-05 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.34E-05 | | 1.62E-06 | 2.35E-05 | 1.78E-05 | 1.78E-05 | 9.76E-06 | | 8.80E-07 | 1.27E-05 | 7.90E-06 | 7.90E-06 | 3.91E-06 |
| 1780 | 256961.9 | 4085133 | 1.13E-05 | 1.64E-04 | 1.21E-04 | 1.21E-04 | 6.72E-05 | | 1.72E-06 | 2.49E-05 | 1.88E-05 | 1.88E-06 | 1.04E-05 | | 9.33E-07 | 1.35E-05 | 8.38E-06 | 8.38E-06 | 4.15E-06 |
| 1781 | 256963.6 | 4085178 | 1.19E-06 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.08E-05 | | 1.81E-06 | 2.62E-05 | 1.98E-05 | 1.98E-05 | 1.09E-05 | | 9.82E-07 | 1.42E-05 | 8.82E-06 | 8.82E-06 | 4.37E-06 |
| 1782 | 256863.9 | 4084960 | 6.81E-06 | 9.85E-05 | 7.26E-06 | 7.26E-05 | 4.05E-05 | | 1.03E-06 | 1.50E-05 | 1.13E-06 | 1.13E-05 | 6.23E-06 | | 5.61E-07 | 8.12E-06 | 5.04E-06 | 5.04E-06 | 2.50E-06 |
| 1783 | 256879.4 | 4084918 | 6.17E-06 | 8.92E-05 | 6.57E-05 | 6.57E-06 | 3.66E-05 | | 9.36E-07 | 1.36E-05 | 1.03E-05 | 1.03E-05 | 5.64E-06 | | 5.08E-07 | 7.35E-06 | 4.57E-06 | 4.57E-06 | 2.26E-06 |
| 1784 | 256894.9 | 4084877 | 5.60E-06 | 8.09E-05 | 5.97E-05 | 5.97E-05 | 3.33E-05 | | 8.49E-07 | 1.23E-05 | 9.31E-06 | 9.31E-06 | 5.12E-06 | | 4.61E-07 | 6.67E-06 | 4.14E-06 | 4.14E-06 | 2.05E-06 |
| 1785 | 256910.3 | 4084835 | 5.13E-06 | 7.42E-06 | 5.47E-06 | 5.47E-05 | 3.05E-05 | | 7.78E-07 | 1.13E-05 | 8.54E-06 | 8.54E-06 | 4.69E-06 | | 4.23E-07 | 6.11E-06 | 3.80E-06 | 3.80E-06 | 1.88E-06 |
| 1786 | 256925.8 | 4084793 | 4.74E-06 | 6.85E-05 | 5.05E-05 | 5.05E-05 | 2.81E-05 | | 7.19E-07 | 1.04E-05 | 7.88E-06 | 7.88E-06 | 4.33E-06 | | 3.90E-07 | 5.65E-06 | 3.51E-06 | 3.51E-06 | 1.74E-06 |
| 1787 | 256941.3 | 4084751 | 4.38E-06 | 6.33E-05 | 4.67E-05 | 4.67E-06 | 2.60E-05 | | 6.64E-07 | 9.64E-06 | 7.29E-06 | 7.29E-06 | 4.01E-06 | | 3.61E-07 | 5.22E-06 | 3.24E-06 | 3.24E-06 | 1.60E-06 |
| 1788 | 256956.7 | 4084710 | 4.05E-06 | 5.85E-05 | 4.31E-05 | 4.31E-05 | 2.41E-05 | | 6.14E-07 | 8.92E-06 | 6.74E-06 | 6.74E-06 | 3.70E-06 | | 3.34E-07 | 4.82E-06 | 3.00E-06 | 3.00E-06 | 1.48E-06 |
| 1789 | 256972.2 | 4084668 | 3.76E-06 | 5.43E-05 | 4.00E-05 | 4.00E-05 | 2.23E-05 | | 5.70E-07 | 8.28E-06 | 6.25E-06 | 6.25E-06 | 3.44E-06 | | 3.10E-07 | 4.48E-06 | 2.78E-06 | 2.78E-06 | 1.38E-06 |
| 1790 | 256987.7 | 4084626 | 3.51E-06 | 5.08E-05 | 3.75E-05 | 3.75E-05 | 2.09E-05 | | 5.33E-07 | 7.74E-06 | 5.85E-06 | 5.85E-06 | 3.22E-06 | | 2.90E-07 | 4.19E-06 | 2.60E-06 | 2.60E-06 | 1.29E-06 |
| 1791 | 257003.1 | 4084584 | 3.31E-06 | 4.78E-05 | 3.53E-05 | 3.53E-05 | 1.97E-05 | | 5.02E-07 | 7.29E-06 | 5.50E-06 | 5.50E-06 | 3.03E-06 | | 2.73E-07 | 3.94E-06 | 2.45E-06 | 2.45E-06 | 1.21E-06 |
| 1792 | 257018.6 | 4084542 | 3.12E-06 | 4.51E-05 | 3.32E-05 | 3.32E-05 | 1.85E-05 | | 4.73E-07 | 6.87E-06 | 5.19E-06 | 5.19E-06 | 2.85E-06 | | 2.57E-07 | 3.72E-06 | 2.31E-06 | 2.31E-06 | 1.14E-06 |
| 1793 | 257034.1 | 4084501 | 2.94E-06 | 4.26E-05 | 3.14E-05 | 3.14E-05 | 1.75E-05 | | 4.47E-07 | 6.48E-06 | 4.90E-06 | 4.90E-06 | 2.69E-06 | | 2.43E-07 | 3.51E-06 | 2.18E-06 | 2.18E-06 | 1.08E-06 |
| 1794 | 257062 | 4084470 | 2.87E-06 | 4.15E-05 | 3.06E-05 | 3.06E-05 | 1.71E-06 | | 4.35E-07 | 6.32E-06 | 4.78E-06 | 4.78E-06 | 2.63E-06 | | 2.36E-07 | 3.42E-06 | 2.12E-06 | 2.12E-06 | 1.05E-06 |
| 1795 | 257102.5 | 4084452 | 2.90E-06 | 4.19E-05 | 3.09E-05 | 3.09E-05 | 1.72E-05 | | 4.40E-07 | 6.39E-06 | 4.83E-06 | 4.83E-06 | 2.65E-06 | | 2.39E-07 | 3.46E-06 | 2.15E-06 | 2.15E-06 | 1.06E-06 |
| 1796 | 257142.9 | 4084433 | 2.95E-06 | 4.26E-06 | 3.14E-06 | 3.14E-05 | 1.75E-06 | | 4.47E-07 | 6.49E-06 | 4.90E-06 | 4.90E-06 | 2.70E-06 | | 2.43E-07 | 3.51E-06 | 2.18E-06 | 2.18E-06 | 1.08E-06 |
| 1797 | 257183.3 | 4084414 | 3.01E-06 | 4.35E-05 | 3.20E-05 | 3.20E-05 | 1.79E-05 | | 4.56E-07 | 6.62E-06 | 5.00E-06 | 5.00E-06 | 2.75E-06 | | 2.48E-07 | 3.58E-06 | 2.23E-06 | 2.23E-06 | 1.10E-06 |
| 1798 | 257223.7 | 4084396 | 3.06E-06 | 4.42E-05 | 3.26E-05 | 3.26E-05 | 1.82E-05 | | 4.64E-07 | 6.74E-06 | 5.09E-06 | 5.09E-06 | 2.80E-06 | | 2.52E-07 | 3.64E-06 | 2.26E-06 | 2.26E-06 | 1.12E-06 |
| 1799 | 257264.2 | 4084377 | 3.09E-06 | 4.47E-05 | 3.30E-05 | 3.30E-05 | 1.84E-05 | | 4.69E-07 | 6.81E-06 | 5.15E-06 | 5.15E-06 | 2.83E-06 | | 2.55E-07 | 3.69E-06 | 2.29E-06 | 2.29E-06 | 1.13E-06 |
| 1800 | 257304.6 | 4084358 | 3.10E-06 | 4.49E-05 | 3.31E-05 | 3.31E-05 | 1.85E-05 | | 4.71E-07 | 6.84E-06 | 5.17E-06 | 5.17E-06 | 2.84E-06 | | 2.56E-07 | 3.70E-06 | 2.30E-06 | 2.30E-06 | 1.14E-06 |
| 1801 | 257345 | 4084340 | 3.09E-06 | 4.48E-05 | 3.30E-05 | 3.30E-05 | 1.84E-05 | | 4.70E-07 | 6.82E-06 | 5.15E-06 | 5.15E-06 | 2.83E-06 | | 2.55E-07 | 3.69E-06 | 2.29E-06 | 2.29E-06 | 1.13E-06 |
| 1802 | 257385.5 | 4084321 | 3.07E-06 | 4.44E-05 | 3.27E-05 | 3.27E-05 | 1.83E-06 | | 4.66E-07 | 6.77E-06 | 5.11E-06 | 5.11E-06 | 2.81E-06 | | 2.53E-07 | 3.66E-06 | 2.27E-06 | 2.27E-06 | 1.13E-06 |
| 1803 | 257425.9 | 4084302 | 3.05E-06 | 4.41E-05 | 3.25E-06 | 3.25E-06 | 1.81E-05 | | 4.63E-07 | 6.72E-06 | 5.08E-06 | 5.08E-06 | 2.79E-06 | | 2.51E-07 | 3.64E-06 | 2.26E-06 | 2.26E-06 | 1.12E-06 |
| 1804 | 257466.3 | 4084284 | 3.04E-06 | 4.40E-05 | 3.24E-05 | 3.24E-06 | 1.81E-06 | | 4.62E-07 | 6.70E-06 | 5.07E-06 | 5.07E-06 | 2.78E-06 | | 2.51E-07 | 3.63E-06 | 2.25E-06 | 2.25E-06 | 1.12E-06 |
| 1805 | 256857 | 4085003 | 7.55E-06 | 1.09E-04 | 8.05E-05 | 8.05E-06 | 4.49E-05 | | 1.15E-06 | 1.66E-05 | 1.26E-05 | 1.26E-05 | 6.91E-06 | | 6.22E-07 | 9.00E-06 | 5.59E-06 | 5.59E-06 | 2.77E-06 |
| 1806 | 256858.7 | 4085048 | 8.29E-06 | 1.20E-04 | 8.83E-05 | 8.83E-05 | 4.93E-05 | | 1.26E-06 | 1.83E-05 | 1.38E-05 | 1.38E-05 | 7.58E-06 | | 6.83E-07 | 9.88E-06 | 6.14E-06 | 6.14E-06 | 3.04E-06 |
| 1807 | 256860.3 | 4085092 | 8.86E-06 | 1.28E-04 | 9.45E-05 | 9.45E-05 | 5.27E-05 | | 1.34E-06 | 1.95E-05 | 1.47E-06 | 1.47E-05 | 8.11E-06 | | 7.30E-07 | 1.06E-05 | 6.56E-06 | 6.56E-06 | 3.25E-06 |
| 1808 | 256862 | 4085137 | 9.28E-06 | 1.34E-04 | 9.90E-05 | 9.90E-06 | 5.52E-05 | | 1.41E-06 | 2.05E-05 | 1.55E-05 | 1.55E-05 | 8.49E-06 | | 7.65E-07 | 1.11E-06 | 6.87E-06 | 6.87E-06 | 3.40E-06 |
| 1809 | 256863.6 | 4085182 | 9.65E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.74E-05 | | 1.47E-06 | 2.13E-05 | 1.61E-05 | 1.61E-05 | 8.83E-06 | | 7.96E-07 | 1.15E-05 | 7.15E-06 | 7.15E-06 | 3.54E-06 |
| 1810 | 256664 | 4084968 | 5.37E-06 | 7.77E-05 | 5.73E-05 | 5.73E-05 | 3.19E-05 | | 8.15E-07 | 1.18E-05 | 8.94E-06 | 8.94E-06 | 4.92E-06 | | 4.43E-07 | 6.41E-06 | 3.98E-06 | 3.98E-06 | 1.97E-06 |
| 1811 | 256679.4 | 4084926 | 4.92E-06 | 7.12E-05 | 5.25E-06 | 5.25E-05 | 2.93E-06 | | 7.47E-07 | 1.08E-05 | 8.20E-06 | 8.20E-06 | 4.51E-06 | | 4.06E-07 | 5.87E-06 | 3.65E-06 | 3.65E-06 | 1.80E-06 |
| 1812 | 256694.8 | 4084884 | 4.51E-06 | 6.52E-05 | 4.81E-05 | 4.81E-05 | 2.68E-05 | | 6.84E-07 | 9.94E-06 | 7.51E-06 | 7.51E-06 | 4.13E-06 | | 3.72E-07 | 5.38E-06 | 3.34E-06 | 3.34E-06 | 1.65E-06 |
| 1813 | 256710.2 | 4084843 | 4.17E-06 | 6.03E-06 | 4.44E-05 | 4.44E-05 | 2.48E-05 | | 6.33E-07 | 9.18E-06 | 6.94E-06 | 6.94E-06 | 3.81E-06 | | 3.44E-07 | 4.97E-06 | 3.09E-06 | 3.09E-06 | 1.53E-06 |
| 1814 | 256725.6 | 4084801 | 3.89E-06 | 5.63E-05 | 4.15E-05 | 4.15E-06 | 2.31E-06 | | 5.91E-07 | 8.58E-06 | 6.48E-06 | 6.48E-06 | 3.56E-06 | | 3.21E-07 | 4.64E-06 | 2.88E-06 | 2.88E-06 | 1.43E-06 |
| 1815 | 256741 | 4084760 | 3.66E-06 | 5.30E-06 | 3.90E-05 | 3.90E-06 | 2.18E-06 | | 5.56E-07 | 8.07E-06 | 6.09E-06 | 6.09E-06 | 3.35E-06 | | 3.02E-07 | 4.37E-06 | 2.71E-06 | 2.71E-06 | 1.34E-06 |
| 1816 | 256756.4 | 4084718 | 3.44E-06 | 4.98E-05 | 3.67E-05 | 3.67E-05 | 2.04E-06 | | 5.22E-07 | 7.58E-06 | 5.73E-06 | 5.73E-06 | 3.15E-06 | | 2.84E-07 | 4.10E-06 | 2.55E-06 | 2.55E-06 | 1.26E-06 |
| 1817 | 256771.8 | 4084677 | 3.21E-06 | 4.65E-05 | 3.43E-05 | 3.43E-06 | 1.91E-06 | | 4.88E-07 | 7.08E-06 | 5.35E-06 | 5.35E-06 | 2.94E-06 | | 2.65E-07 | 3.83E-06 | 2.38E-06 | 2.38E-06 | 1.18E-06 |
| 1818 | 256787.2 | 4084635 | 2.99E-06 | 4.32E-05 | 3.28E-05 | 3.18E-05 | 1.77E-05 | | 4.53E-07 | 6.58E-06 | 4.97E-06 | 4.97E-06 | 2.73E-06 | | 2.46E-07 | 3.56E-06 | 2.21E-06 | 2.21E-06 | 1.09E-06 |
| 1819 | 256802.6 | 4084593 | 2.77E-06 | 4.01E-05 | 2.96E-05 | 2.96E-05 | 1.65E-05 | | 4.21E-07 | 6.11E-06 | 4.62E-06 | 4.62E-06 | 2.54E-06 | | 2.29E-07 | 3.31E-06 | 2.05E-06 | 2.05E-06 | 1.02E-06 |
| 1820 | 256818 | 4084552 | 2.60E-06 | 3.76E-05 | 2.77E-05 | 2.77E-05 | 1.55E-05 | | 3.95E-07 | 5.73E-06 | 4.33E-06 | 4.33E-06 | 2.38E-06 | | 2.14E-07 | 3.10E-06 | 1.93E-06 | 1.93E-06 | 9.53E-07 |
| 1821 | 256833.4 | 4084510 | 2.46E-06 | 3.56E-06 | 2.63E-05 | 2.63E-05 | 1.46E-06 | | 3.74E-07 | 5.43E-06 | 4.10E-06 | 4.10E-06 | 2.25E-06 | | 2.03E-07 | 2.94E-06 | 1.82E-06 | 1.82E-06 | 9.03E-07 |
| 1822 | 256848.8 | 4084469 | 2.35E-06 | 3.41E-06 | 2.51E-05 | 2.51E-06 | 1.40E-06 | | 3.57E-07 | 5.19E-06 | 3.92E-06 | 3.92E-06 | 2.15E-06 | | 1.94E-07 | 2.81E-06 | 1.74E-06 | 1.74E-06 | 8.63E-07 |
| 1823 | 256864.2 | 4084427 | 2.26E-06 | 3.27E-06 | 2.41E-05 | 2.41E-05 | 1.34E-05 | | 3.43E-07 | 4.98E-06 | 3.76E-06 | 3.76E-06 | 2.07E-06 | | 1.86E-07 | 2.69E-06 | 1.67E-06 | 1.67E-06 | 8.28E-07 |
| 1824 | 256879.6 | 4084386 | 2.17E-06 | 3.14E-06 | 2.32E-05 | 2.32E-05 | 1.29E-05 | | 3.30E-07 | 4.79E-06 | 3.62E-06 | 3.62E-06 | 1.99E-06 | | 1.79E-07 | 2.59E-06 | 1.61E-06 | 1.61E-06 | 7.97E-07 |
| 1825 | 256915.1 | 4084335 | 2.11E-06 | 3.05E-06 | 2.25E-05 | 2.25E-05 | 1.25E-05 | | 3.20E-07 | 4.64E-06 | 3.51E-06 | 3.51E-06 | 1.93E-06 | | 1.74E-07 | 2.51E-06 | 1.56E-06 | 1.56E-06 | 7.72E-07 |
| 1826 | 256955.3 | 4084316 | 2.13E-06 | 3.09E-06 | 2.27E-05 | 2.27E-05 | 1.27E-05 | | 3.24E-07 | 4.70E-06 | 3.55E-06 | 3.55E-06 | 1.95E-06 | | 1.76E-07 | 2.54E-06 | 1.58E-06 | 1.58E-06 | 7.82E-07 |
| 1827 | 256995.6 | 4084298 | 2.17E-06 | 3.14E-06 | 2.31E-05 | 2.31E-05 | 1.29E-05 | | 3.29E-07 | 4.78E-06 | 3.61E-06 | 3.61E-06 | 1.98E-06 | | 1.79E-07 | 2.58E-06 | 1.61E-06 | 1.61E-06 | 7.95E-07 |
| 1828 | 257035.8 | 4084279 | 2.21E-06 | 3.19E-05 | 2.35E-05 | 2.35E-06 | 1.31E-05 | | 3.35E-07 | 4.87E-06 | 3.68E-06 | 3.68E-06 | 2.02E-06 | | 1.82E-07 | 2.63E-06 | 1.64E-06 | 1.64E-06 | 8.10E-07 |
| 1829 | 257076.1 | 4084260 | 2.25E-06 | 3.25E-06 | 2.40E-05 | 2.40E-05 | 1.34E-05 | | 3.41E-07 | 4.96E-06 | 3.75E-06 | 3.75E-06 | 2.06E-06 | | 1.85E-07 | 2.68E-06 | 1.67E-06 | 1.67E-06 | 8.25E-07 |
| 1830 | 257116.3 | 4084242 | 2.28E-06 | 3.29E-05 | 2.43E-05 | 2.43E-06 | 1.35E-05 | | 3.46E-07 | 5.02E-06 | 3.79E-06 | 3.79E-06 | 2.08E-06 | | 1.88E-07 | 2.71E-06 | 1.69E-06 | 1.69E-06 | 8.35E-07 |
| 1831 | 257156.6 | 4084223 | 2.28E-06 | 3.30E-05 | 2.44E-05 | 2.44E-05 | 1.36E-06 | | 3.47E-07 | 5.03E-06 | 3.80E-06 | 3.80E-06 | 2.09E-06 | | 1.88E-07 | 2.72E-06 | 1.69E-06 | 1.69E-06 | 8.38E-07 |
| 1832 | 257196.8 | 4084205 | 2.27E-06 | 3.29E-05 | 2.42E-05 | 2.42E-05 | 1.35E-05 | | 3.45E-07 | 5.01E-06 | 3.79E-06 | 3.79E-06 | 2.08E-06 | | 1.87E-07 | 2.71E-06 | 1.68E-06 | 1.68E-06 | 8.34E-07 |
| 1833 | 257237.1 | 4084186 | 2.25E-06 | 3.25E-05 | 2.39E-05 | 2.39E-05 | 1.33E-05 | | 3.41E-07 | 4.95E-06 | 3.74E-06 | 3.74E-06 | 2.06E-06 | | 1.85E-07 | 2.68E-06 | 1.66E-06 | 1.66E-06 | 8.23E-07 |
| 1834 | 257277.3 | 4084167 | 2.21E-06 | 3.19E-05 | 2.35E-05 | 2.35E-05 | 1.31E-05 | | 3.35E-07 | 4.87E-06 | 3.68E-06 | 3.68E-06 | 2.02E-06 | | 1.82E-07 | 2.63E-06 | 1.64E-06 | 1.64E-06 | 8.10E-07 |
| 1835 | 257317.5 | 4084149 | 2.17E-06 | 3.14E-05 | 2.32E-05 | 2.32E-05 | 1.29E-05 | | 3.30E-07 | 4.79E-06 | 3.62E-06 | 3.62E-06 | 1.99E-06 | | 1.79E-07 | 2.59E-06 | 1.61E-06 | 1.61E-06 | 7.96E-07 |
| 1836 | 257357.8 | 4084130 | 2.15E-06 | 3.10E-05 | 2.29E-05 | 2.29E-05 | 1.28E-05 | | 3.26E-07 | 4.73E-06 | 3.57E-06 | 3.57E-06 | 1.96E-06 | | 1.77E-07 | 2.56E-06 | 1.59E-06 | 1.59E-06 | 7.86E-07 |
| 1837 | 257398 | 4084112 | 2.14E-06 | 3.09E-05 | 2.28E-06 | 2.28E-05 | 1.27E-05 | | 3.24E-07 | 4.70E-06 | 3.55E-06 | 3.55E-06 | 1.95E-06 | | 1.76E-07 | 2.55E-06 | 1.58E-06 | 1.58E-06 | 7.83E-07 |
| 1838 | 257438.3 | 4084093 | 2.14E-06 | 3.10E-05 | 2.28E-05 | 2.28E-05 | 1.27E-06 | | 3.25E-07 | 4.72E-06 | 3.56E-06 | 3.56E-06 | 1.96E-06 | | 1.77E-07 | 2.55E-06 | 1.59E-06 | 1.59E-06 | 7.85E-07 |
| 1839 | 257478.5 | 4084074 | 2.16E-06 | 3.13E-05 | 2.31E-05 | 2.31E-05 | 1.29E-05 | | 3.28E-07 | 4.77E-06 | 3.60E-06 | 3.60E-06 | 1.98E-06 | | 1.78E-07 | 2.58E-06 | 1.60E-06 | 1.60E-06 | 7.93E-07 |
| 1840 | 256657.2 | 4085011 | 5.84E-06 | 8.45E-05 | 6.23E-05 | 6.23E-05 | 3.47E-05 | | 8.87E-07 | 1.29E-05 | 9.72E-06 | 9.72E-06 | 5.35E-06 | | 4.82E-07 | 6.96E-06 | 4.33E-06 | 4.33E-06 | 2.14E-06 |
| 1841 | 256658.8 | 4085055 | 6.28E-06 | 9.09E-05 | 6.78E-05 | 6.70E-05 | 3.73E-06 | | 9.53E-07 | 1.38E-05 | 1.05E-05 | 1.05E-06 | 5.75E-06 | | 5.18E-07 | 7.49E-06 | 4.65E-06 | 4.65E-06 | 2.30E-06 |
| 1842 | 256660.5 | 4085100 | 6.59E-06 | 9.54E-05 | 7.03E-05 | 7.03E-05 | 3.92E-05 | | 1.00E-06 | 1.45E-05 | 1.10E-05 | 1.10E-05 | 6.03E-06 | | 5.44E-07 | 7.86E-06 | 4.88E-06 | 4.88E-06 | 2.42E-06 |
| 1843 | 256662.1 | 4085144 | 6.81E-06 | 9.84E-05 | 7.25E-05 | 7.25E-05 | 4.04E-05 | | 1.03E-06 | 1.50E-05 | 1.13E-05 | 1.13E-05 | 6.23E-06 | | 5.61E-07 | 8.11E-06 | 5.04E-06 | 5.04E-06 | 2.49E-06 |
| 1844 | 256663 | 4085167 | 6.89E-06 | 9.97E-05 | 7.35E-05 | 7.35E-05 | 4.10E-05 | | 1.05E-06 | 1.52E-05 | 1.15E-05 | 1.15E-05 | 6.31E-06 | | 5.68E-07 | 8.22E-06 | 5.10E-06 | 5.10E-06 | 2.53E-06 |
| 1845 | 256464.2 | 4084975 | 4.45E-06 | 6.44E-05 | 4.75E-05 | 4.75E-05 | 2.65E-05 | | 6.76E-07 | 9.82E-06 | 7.41E-06 | 7.41E-06 | 4.08E-06 | | 3.67E-07 | 5.31E-06 | 3.30E-06 | 3.30E-06 | 1.63E-06 |
| 1846 | 256479.5 | 4084934 | 4.13E-06 | 5.97E-05 | 4.40E-05 | 4.40E-05 | 2.45E-05 | | 6.26E-07 | 9.09E-06 | 6.87E-06 | 6.87E-06 | 3.78E-06 | | 3.40E-07 | 4.92E-06 | 3.06E-06 | 3.06E-06 | 1.51E-06 |
| 1847 | 256494.9 | 4084892 | 3.81E-06 | 5.51E-05 | 4.06E-05 | 4.06E-05 | 2.27E-05 | | 5.78E-07 | 8.40E-06 | 6.34E-06 | 6.34E-06 | 3.49E-06 | | 3.14E-07 | 4.54E-06 | 2.82E-06 | 2.82E-06 | 1.40E-06 |
| 1848 | 256510.2 | 4084851 | 3.53E-06 | 5.11E-05 | 3.77E-05 | 3.77E-06 | 2.10E-06 | | 5.36E-07 | 7.78E-06 | 5.88E-06 | 5.88E-06 | 3.23E-06 | | 2.91E-07 | 4.21E-06 | 2.62E-06 | 2.62E-06 | 1.29E-06 |
| 1849 | 256525.6 | 4084809 | 3.31E

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1645 | 257536.5 | 4085112 | 4.30E-04 | 6.22E-03 | 4.59E-03 | 4.59E-03 | 2.56E-03 | 6.53E-05 | 9.48E-04 | 7.16E-04 | 7.16E-04 | 3.94E-04 | 3.55E-05 | 5.13E-04 | 3.19E-04 | 3.19E-04 | 1.58E-04 |
| 1646 | 257538.2 | 4085157 | 4.16E-04 | 6.02E-03 | 4.44E-03 | 4.44E-03 | 2.47E-03 | 6.32E-05 | 9.17E-04 | 6.93E-04 | 6.93E-04 | 3.81E-04 | 3.43E-05 | 4.96E-04 | 3.08E-04 | 3.08E-04 | 1.53E-04 |
| 1647 | 257512.4 | 4084939 | 5.09E-05 | 7.36E-04 | 5.42E-04 | 5.42E-04 | 3.02E-04 | 7.72E-06 | 1.12E-04 | 8.47E-06 | 8.47E-05 | 4.66E-05 | 4.19E-06 | 6.07E-05 | 3.77E-05 | 3.77E-05 | 1.86E-06 |
| 1648 | 257506.6 | 4084979 | 8.53E-05 | 1.23E-03 | 9.09E-04 | 9.09E-04 | 5.07E-04 | 1.29E-05 | 1.88E-04 | 1.42E-04 | 1.42E-04 | 7.81E-05 | 7.03E-06 | 1.02E-04 | 6.32E-05 | 6.32E-05 | 3.13E-05 |
| 1649 | 257508.2 | 4085024 | 1.63E-04 | 2.35E-03 | 1.74E-03 | 1.74E-03 | 9.68E-04 | 2.47E-06 | 3.59E-04 | 2.71E-04 | 2.71E-04 | 1.49E-04 | 1.34E-05 | 1.94E-04 | 1.21E-04 | 1.21E-04 | 5.97E-05 |
| 1650 | 257509.9 | 4085068 | 2.32E-04 | 3.36E-03 | 2.47E-03 | 2.47E-03 | 1.38E-03 | 3.52E-05 | 5.12E-04 | 3.86E-04 | 3.86E-04 | 2.12E-04 | 1.91E-06 | 2.77E-04 | 1.72E-04 | 1.72E-04 | 8.51E-05 |
| 1651 | 257511.5 | 4085113 | 2.74E-04 | 3.97E-03 | 2.93E-03 | 2.93E-03 | 1.63E-03 | 4.16E-05 | 6.05E-04 | 4.57E-04 | 4.57E-04 | 2.51E-04 | 2.26E-05 | 3.27E-04 | 2.03E-04 | 2.03E-04 | 1.01E-04 |
| 1652 | 257513.2 | 4085157 | 2.82E-04 | 4.07E-03 | 3.00E-03 | 3.00E-03 | 1.67E-03 | 4.28E-05 | 6.21E-04 | 4.69E-04 | 4.69E-04 | 2.58E-04 | 2.32E-06 | 3.36E-04 | 2.09E-04 | 2.09E-04 | 1.03E-04 |
| 1653 | 257487.4 | 4084940 | 4.20E-06 | 6.07E-04 | 4.47E-04 | 4.47E-04 | 2.49E-04 | 6.37E-06 | 9.25E-06 | 6.99E-05 | 6.99E-05 | 3.84E-05 | 3.46E-06 | 5.00E-05 | 3.11E-05 | 3.11E-05 | 1.54E-05 |
| 1654 | 257518 | 4084896 | 3.36E-05 | 4.86E-04 | 3.58E-04 | 3.58E-04 | 2.00E-04 | 5.10E-06 | 7.41E-06 | 5.60E-05 | 5.60E-05 | 3.08E-05 | 2.77E-06 | 4.01E-05 | 2.49E-05 | 2.49E-05 | 1.23E-05 |
| 1655 | 257481.6 | 4084980 | 6.30E-05 | 9.11E-04 | 6.71E-04 | 6.71E-04 | 3.74E-04 | 9.56E-06 | 1.39E-04 | 1.05E-04 | 1.05E-04 | 5.76E-05 | 5.19E-06 | 7.51E-05 | 4.66E-05 | 4.66E-05 | 2.31E-06 |
| 1656 | 257483.3 | 4085025 | 1.07E-04 | 1.55E-03 | 1.14E-03 | 1.14E-03 | 6.36E-04 | 1.62E-06 | 2.36E-04 | 1.78E-04 | 1.78E-04 | 9.79E-05 | 8.82E-06 | 1.28E-04 | 7.92E-05 | 7.92E-05 | 3.92E-05 |
| 1657 | 257484.9 | 4085069 | 1.56E-04 | 2.26E-03 | 1.66E-03 | 1.66E-03 | 9.27E-04 | 2.37E-06 | 3.44E-04 | 2.60E-04 | 2.60E-04 | 1.43E-04 | 1.29E-05 | 1.86E-04 | 1.15E-04 | 1.15E-04 | 5.72E-05 |
| 1658 | 257486.6 | 4085114 | 1.91E-04 | 2.77E-03 | 2.04E-03 | 2.04E-03 | 1.14E-03 | 2.90E-05 | 4.22E-04 | 3.18E-04 | 3.18E-04 | 1.75E-04 | 1.58E-05 | 2.28E-04 | 1.42E-04 | 1.42E-04 | 7.01E-05 |
| 1659 | 257488.2 | 4085158 | 2.05E-04 | 2.97E-03 | 2.19E-03 | 2.19E-03 | 1.22E-03 | 3.12E-05 | 4.52E-04 | 3.42E-04 | 3.42E-04 | 1.88E-04 | 1.69E-05 | 2.45E-04 | 1.52E-04 | 1.52E-04 | 7.53E-05 |
| 1660 | 257462.4 | 4084941 | 3.56E-05 | 5.15E-04 | 3.79E-04 | 3.79E-04 | 2.12E-04 | 5.40E-06 | 7.84E-05 | 5.92E-05 | 5.92E-05 | 3.26E-05 | 2.93E-06 | 4.24E-05 | 2.64E-05 | 2.64E-05 | 1.30E-05 |
| 1661 | 257475.7 | 4084905 | 2.84E-05 | 4.11E-04 | 3.03E-04 | 3.03E-04 | 1.69E-04 | 4.32E-06 | 6.27E-05 | 4.73E-05 | 4.73E-05 | 2.60E-05 | 2.34E-06 | 3.39E-05 | 2.11E-05 | 2.11E-05 | 1.04E-05 |
| 1662 | 257499.6 | 4084879 | 2.64E-05 | 3.81E-04 | 2.81E-04 | 2.81E-04 | 1.57E-04 | 4.00E-06 | 5.81E-05 | 4.39E-05 | 4.39E-05 | 2.41E-05 | 2.17E-06 | 3.14E-05 | 1.95E-05 | 1.95E-05 | 9.66E-06 |
| 1663 | 257456.6 | 4084981 | 5.00E-05 | 7.23E-04 | 5.33E-04 | 5.33E-04 | 2.97E-04 | 7.58E-06 | 1.10E-04 | 8.32E-05 | 8.32E-05 | 4.57E-05 | 4.12E-06 | 5.96E-05 | 3.70E-05 | 3.70E-05 | 1.83E-06 |
| 1664 | 257458.3 | 4085026 | 7.75E-05 | 1.12E-03 | 8.26E-04 | 8.26E-04 | 4.61E-04 | 1.18E-06 | 1.71E-04 | 1.29E-04 | 1.29E-04 | 7.09E-05 | 6.39E-06 | 9.24E-05 | 5.74E-05 | 5.74E-05 | 2.84E-05 |
| 1665 | 257459.1 | 4085048 | 9.46E-05 | 1.37E-03 | 1.01E-03 | 1.01E-03 | 5.63E-04 | 1.44E-05 | 2.09E-04 | 1.58E-04 | 1.58E-04 | 8.66E-05 | 7.80E-06 | 1.13E-04 | 7.01E-05 | 7.01E-05 | 3.47E-05 |
| 1666 | 257460.8 | 4085092 | 1.28E-04 | 1.85E-03 | 1.36E-03 | 1.36E-03 | 7.58E-04 | 1.94E-05 | 2.81E-04 | 2.12E-04 | 2.12E-04 | 1.17E-04 | 1.05E-05 | 1.52E-04 | 9.45E-06 | 9.45E-06 | 4.68E-05 |
| 1667 | 257462.4 | 4085137 | 1.50E-04 | 2.18E-03 | 1.60E-03 | 1.60E-03 | 8.94E-04 | 2.28E-05 | 3.31E-04 | 2.50E-04 | 2.50E-04 | 1.38E-04 | 1.24E-05 | 1.79E-04 | 1.11E-04 | 1.11E-04 | 5.51E-05 |
| 1668 | 257412.5 | 4084943 | 2.71E-05 | 3.92E-04 | 2.89E-04 | 2.89E-04 | 1.61E-04 | 4.11E-06 | 5.97E-05 | 4.51E-05 | 4.51E-05 | 2.48E-05 | 2.23E-06 | 3.23E-05 | 2.01E-05 | 2.01E-05 | 9.93E-06 |
| 1669 | 257425.7 | 4084907 | 2.25E-05 | 3.26E-04 | 2.40E-04 | 2.40E-04 | 1.34E-04 | 3.42E-06 | 4.97E-05 | 3.75E-05 | 3.75E-05 | 2.06E-05 | 1.86E-06 | 2.69E-05 | 1.67E-05 | 1.67E-05 | 8.26E-06 |
| 1670 | 257439 | 4084871 | 1.91E-05 | 2.76E-04 | 2.03E-04 | 2.03E-04 | 1.13E-04 | 2.90E-06 | 4.21E-05 | 3.18E-05 | 3.18E-05 | 1.75E-05 | 1.57E-06 | 2.28E-05 | 1.41E-05 | 1.41E-05 | 7.00E-06 |
| 1671 | 257462.9 | 4084845 | 1.80E-05 | 2.60E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.73E-06 | 3.96E-05 | 2.99E-05 | 2.99E-05 | 1.65E-05 | 1.48E-06 | 2.14E-05 | 1.33E-05 | 1.33E-05 | 6.59E-06 |
| 1672 | 257497.6 | 4084829 | 1.87E-05 | 2.70E-04 | 1.99E-04 | 1.99E-04 | 1.11E-04 | 2.83E-06 | 4.11E-05 | 3.11E-05 | 3.11E-05 | 1.71E-05 | 1.54E-06 | 2.22E-05 | 1.38E-05 | 1.38E-05 | 6.84E-06 |
| 1673 | 257406.7 | 4084983 | 3.52E-06 | 5.09E-04 | 3.75E-04 | 3.75E-04 | 2.09E-04 | 5.34E-06 | 7.75E-05 | 5.85E-05 | 5.85E-05 | 3.22E-05 | 2.90E-06 | 4.19E-05 | 2.60E-05 | 2.60E-05 | 1.29E-05 |
| 1674 | 257408.3 | 4085027 | 4.86E-05 | 7.03E-04 | 5.18E-04 | 5.18E-04 | 2.89E-04 | 7.38E-06 | 1.07E-04 | 8.09E-05 | 8.09E-05 | 4.45E-05 | 4.01E-06 | 5.79E-05 | 3.60E-05 | 3.60E-05 | 1.78E-05 |
| 1675 | 257410 | 4085072 | 6.61E-06 | 9.57E-04 | 7.05E-04 | 7.05E-04 | 3.93E-04 | 1.00E-05 | 1.46E-04 | 1.10E-04 | 1.10E-04 | 6.05E-06 | 5.45E-06 | 7.89E-05 | 4.90E-05 | 4.90E-05 | 2.42E-06 |
| 1676 | 257411.6 | 4085117 | 8.44E-05 | 1.22E-03 | 8.99E-04 | 8.99E-04 | 5.01E-04 | 1.28E-05 | 1.86E-04 | 1.40E-04 | 1.40E-04 | 7.72E-05 | 6.95E-06 | 1.01E-04 | 6.25E-05 | 6.25E-05 | 3.09E-05 |
| 1677 | 257413.3 | 4085161 | 9.78E-05 | 1.41E-03 | 1.04E-03 | 1.04E-03 | 5.81E-04 | 1.48E-05 | 2.16E-04 | 1.63E-04 | 1.63E-04 | 8.95E-05 | 8.06E-06 | 1.17E-04 | 7.24E-05 | 7.24E-05 | 3.59E-05 |
| 1678 | 257363.4 | 4084942 | 2.14E-05 | 3.10E-04 | 2.28E-04 | 2.28E-04 | 1.27E-04 | 3.25E-06 | 4.72E-05 | 3.56E-05 | 3.56E-05 | 1.96E-06 | 1.76E-06 | 2.55E-05 | 1.58E-05 | 1.58E-05 | 7.84E-06 |
| 1679 | 257378.6 | 4084901 | 1.79E-06 | 2.59E-04 | 1.91E-04 | 1.91E-04 | 1.06E-04 | 2.72E-06 | 3.94E-05 | 2.98E-05 | 2.98E-05 | 1.64E-05 | 1.48E-06 | 2.13E-05 | 1.33E-05 | 1.33E-05 | 6.56E-06 |
| 1680 | 257393.7 | 4084860 | 1.52E-05 | 2.20E-04 | 1.62E-04 | 1.62E-04 | 9.06E-05 | 2.31E-06 | 3.36E-05 | 2.54E-05 | 2.54E-05 | 1.39E-05 | 1.26E-06 | 1.82E-05 | 1.13E-05 | 1.13E-05 | 5.59E-06 |
| 1681 | 257428.7 | 4084810 | 1.34E-06 | 1.93E-04 | 1.42E-04 | 1.42E-04 | 7.94E-05 | 2.03E-06 | 2.94E-05 | 2.22E-05 | 2.22E-05 | 1.22E-05 | 1.10E-06 | 1.59E-05 | 9.90E-06 | 9.90E-06 | 4.90E-06 |
| 1682 | 257468.3 | 4084792 | 1.38E-06 | 1.99E-04 | 1.47E-04 | 1.47E-04 | 8.19E-06 | 2.09E-06 | 3.04E-06 | 2.29E-05 | 2.29E-06 | 1.28E-05 | 1.14E-06 | 1.64E-05 | 1.02E-05 | 1.02E-05 | 5.05E-06 |
| 1683 | 257507.9 | 4084774 | 1.42E-05 | 2.06E-04 | 1.52E-04 | 1.52E-04 | 8.46E-05 | 2.16E-06 | 3.14E-05 | 2.37E-05 | 2.37E-05 | 1.30E-05 | 1.17E-06 | 1.70E-05 | 1.05E-05 | 1.05E-05 | 5.22E-06 |
| 1684 | 257356.7 | 4084985 | 2.69E-05 | 3.89E-04 | 2.87E-04 | 2.87E-04 | 1.60E-04 | 4.08E-06 | 5.93E-05 | 4.48E-05 | 4.48E-06 | 2.46E-05 | 2.22E-06 | 3.21E-05 | 1.99E-05 | 1.99E-05 | 9.86E-06 |
| 1685 | 257358.3 | 4085029 | 3.49E-05 | 5.04E-04 | 3.72E-04 | 3.72E-04 | 2.07E-04 | 5.29E-06 | 7.68E-05 | 5.80E-05 | 5.80E-06 | 3.19E-05 | 2.87E-06 | 4.16E-05 | 2.58E-05 | 2.58E-05 | 1.28E-05 |
| 1686 | 257360 | 4085074 | 4.46E-05 | 6.45E-04 | 4.75E-04 | 4.75E-04 | 2.65E-04 | 6.77E-06 | 9.82E-05 | 7.42E-05 | 7.42E-05 | 4.08E-05 | 3.68E-06 | 5.32E-05 | 3.30E-05 | 3.30E-05 | 1.63E-05 |
| 1687 | 257361.7 | 4085118 | 5.57E-05 | 8.06E-04 | 5.94E-04 | 5.94E-04 | 3.31E-04 | 8.46E-06 | 1.23E-04 | 9.28E-05 | 9.28E-05 | 5.10E-05 | 4.60E-06 | 6.65E-05 | 4.13E-05 | 4.13E-05 | 2.04E-05 |
| 1688 | 257363.3 | 4085163 | 6.59E-05 | 9.53E-04 | 7.03E-04 | 7.03E-04 | 3.92E-04 | 1.00E-05 | 1.45E-04 | 1.10E-04 | 1.10E-04 | 6.03E-05 | 5.43E-06 | 7.86E-05 | 4.88E-05 | 4.88E-05 | 2.42E-05 |
| 1689 | 257313.3 | 4084944 | 1.78E-06 | 2.57E-04 | 1.90E-04 | 1.90E-04 | 1.06E-04 | 2.70E-06 | 3.92E-05 | 2.96E-05 | 2.96E-05 | 1.63E-05 | 1.47E-06 | 2.12E-06 | 1.32E-06 | 1.32E-06 | 6.52E-06 |
| 1690 | 257328 | 4084905 | 1.52E-06 | 2.20E-04 | 1.62E-04 | 1.62E-04 | 9.04E-05 | 2.31E-06 | 3.35E-05 | 2.53E-05 | 2.53E-05 | 1.39E-05 | 1.25E-06 | 1.81E-05 | 1.13E-06 | 1.13E-06 | 5.58E-06 |
| 1691 | 257342.7 | 4084865 | 1.32E-05 | 1.91E-04 | 1.41E-04 | 1.41E-04 | 7.85E-05 | 2.00E-06 | 2.91E-05 | 2.20E-05 | 2.20E-05 | 1.21E-05 | 1.09E-06 | 1.57E-05 | 9.78E-06 | 9.78E-06 | 4.84E-06 |
| 1692 | 257357.5 | 4084825 | 1.16E-05 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.91E-05 | 1.76E-06 | 2.56E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.58E-07 | 1.39E-05 | 8.60E-06 | 8.60E-06 | 4.26E-06 |
| 1693 | 257391.4 | 4084776 | 1.04E-05 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 6.19E-05 | 1.58E-06 | 2.30E-05 | 1.73E-05 | 1.73E-05 | 9.53E-06 | 8.59E-07 | 1.24E-05 | 7.72E-06 | 7.72E-06 | 3.82E-06 |
| 1694 | 257429.9 | 4084759 | 1.07E-06 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.34E-05 | 1.62E-06 | 2.35E-05 | 1.77E-05 | 1.77E-06 | 9.76E-06 | 8.79E-07 | 1.27E-05 | 7.90E-06 | 7.90E-06 | 3.91E-06 |
| 1695 | 257468.5 | 4084741 | 1.09E-06 | 1.58E-04 | 1.16E-04 | 1.16E-04 | 6.48E-05 | 1.65E-06 | 2.40E-05 | 1.81E-05 | 1.81E-05 | 9.97E-06 | 8.98E-07 | 1.30E-05 | 8.07E-06 | 8.07E-06 | 3.99E-06 |
| 1696 | 257507 | 4084723 | 1.12E-05 | 1.62E-04 | 1.19E-04 | 1.19E-04 | 6.65E-05 | 1.70E-06 | 2.46E-06 | 1.86E-05 | 1.86E-05 | 1.02E-05 | 9.22E-07 | 1.33E-05 | 8.28E-06 | 8.28E-06 | 4.10E-06 |
| 1697 | 257306.7 | 4084987 | 2.17E-05 | 3.13E-04 | 2.31E-04 | 2.31E-04 | 1.29E-04 | 3.29E-06 | 4.77E-05 | 3.61E-05 | 3.61E-05 | 1.98E-05 | 1.79E-06 | 2.58E-05 | 1.60E-05 | 1.60E-06 | 7.94E-06 |
| 1698 | 257307.6 | 4085009 | 2.42E-05 | 3.50E-04 | 2.58E-04 | 2.58E-04 | 1.44E-04 | 3.68E-06 | 5.34E-05 | 4.03E-06 | 4.03E-05 | 2.22E-05 | 2.00E-06 | 2.89E-06 | 1.79E-05 | 1.79E-05 | 8.88E-06 |
| 1699 | 257309.2 | 4085053 | 2.98E-05 | 4.31E-04 | 3.18E-04 | 3.18E-04 | 1.77E-04 | 4.52E-06 | 6.56E-05 | 4.96E-05 | 4.96E-06 | 2.73E-05 | 2.46E-06 | 3.55E-05 | 2.21E-05 | 2.21E-05 | 1.09E-06 |
| 1700 | 257310.9 | 4085098 | 3.62E-05 | 5.24E-04 | 3.86E-04 | 3.86E-04 | 2.15E-04 | 5.49E-06 | 7.98E-05 | 6.03E-05 | 6.03E-05 | 3.31E-05 | 2.98E-06 | 4.32E-05 | 2.68E-05 | 2.68E-05 | 1.33E-05 |
| 1701 | 257312.5 | 4085143 | 4.33E-05 | 6.27E-04 | 4.62E-04 | 4.62E-04 | 2.58E-04 | 6.58E-06 | 9.55E-05 | 7.21E-05 | 7.21E-05 | 3.96E-05 | 3.57E-06 | 5.17E-05 | 3.21E-05 | 3.21E-05 | 1.59E-06 |
| 1702 | 257263.2 | 4084947 | 1.52E-05 | 2.19E-04 | 1.62E-04 | 1.62E-04 | 9.01E-05 | 2.30E-06 | 3.34E-05 | 2.52E-05 | 2.52E-05 | 1.39E-05 | 1.25E-06 | 1.81E-05 | 1.12E-05 | 1.12E-05 | 5.56E-06 |
| 1703 | 257277.6 | 4084908 | 1.32E-05 | 1.90E-04 | 1.40E-04 | 1.40E-04 | 7.82E-05 | 2.00E-06 | 2.90E-05 | 2.19E-06 | 2.19E-05 | 1.20E-06 | 1.08E-06 | 1.57E-05 | 9.74E-06 | 9.74E-06 | 4.82E-06 |
| 1704 | 257292.1 | 4084869 | 1.16E-06 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.87E-05 | 1.75E-06 | 2.55E-06 | 1.92E-05 | 1.92E-05 | 1.06E-05 | 9.53E-07 | 1.38E-05 | 8.56E-06 | 8.56E-06 | 4.24E-06 |
| 1705 | 257306.6 | 4084829 | 1.03E-06 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.12E-05 | 1.56E-06 | 2.27E-05 | 1.71E-05 | 1.71E-05 | 9.42E-06 | 8.49E-07 | 1.23E-05 | 7.63E-06 | 7.63E-06 | 3.78E-06 |
| 1706 | 257321 | 4084790 | 9.25E-06 | 1.34E-04 | 9.86E-05 | 9.86E-05 | 5.50E-05 | 1.40E-06 | 2.04E-06 | 1.54E-06 | 1.54E-05 | 8.47E-06 | 7.63E-07 | 1.10E-05 | 6.85E-06 | 6.85E-06 | 3.39E-06 |
| 1707 | 257354.4 | 4084743 | 8.42E-06 | 1.22E-04 | 8.98E-05 | 8.98E-05 | 5.00E-05 | 1.28E-06 | 1.86E-05 | 1.40E-06 | 1.40E-06 | 7.70E-06 | 6.94E-07 | 1.00E-05 | 6.24E-06 | 6.24E-06 | 3.09E-06 |
| 1708 | 257392.2 | 4084725 | 8.57E-06 | 1.24E-04 | 9.14E-05 | 9.14E-05 | 5.10E-05 | 1.30E-06 | 1.89E-05 | 1.43E-05 | 1.43E-06 | 7.85E-06 | 7.07E-07 | 1.02E-05 | 6.35E-06 | 6.35E-06 | 3.14E-06 |
| 1709 | 257430 | 4084708 | 8.71E-06 | 1.26E-04 | 9.29E-05 | 9.29E-05 | 5.18E-05 | 1.32E-06 | 1.92E-05 | 1.45E-06 | 1.45E-06 | 7.97E-06 | 7.18E-07 | 1.04E-06 | 6.45E-06 | 6.45E-06 | 3.19E-06 |
| 1710 | 257467.8 | 4084690 | 8.86E-06 | 1.28E-04 | 9.45E-06 | 9.45E-05 | 5.27E-05 | 1.35E-06 | 1.95E-05 | 1.48E-05 | 1.48E-06 | 8.11E-06 | 7.31E-07 | 1.06E-06 | 6.56E-06 | 6.56E-06 | 3.25E-06 |
| 1711 | 257505.6 | 4084673 | 9.07E-06 | 1.31E-04 | 9.67E-05 | 9.67E-05 | 5.39E-05 | 1.38E-06 | 2.00E-06 | 1.51E-05 | 1.51E-05 | 8.30E-06 | 7.47E-07 | 1.08E-05 | 6.71E-06 | 6.71E-06 | 3.32E-06 |
| 1712 | 257256.8 | 4084988 | 1.81E-05 | 2.61E-04 | 1.93E-04 | 1.93E-04 | 1.07E-04 | 2.74E-06 | 3.98E-05 | 3.01E-06 | 3.01E-05 | 1.65E-05 | 1.49E-06 | 2.15E-05 | 1.34E-05 | 1.34E-05 | 6.62E-06 |
| 1713 | 257258.4 | 4085033 | 2.18E-05 | 3.15E-04 | 2.33E-04 | 2.33E-04 | 1.30E-04 | 3.31E-06 | 4.81E-05 | 3.63E-06 | 3.63E-05 | 2.00E-05 | 1.80E-06 | 2.60E-05 | 1.62E-05 | 1.62E-05 | 8.00E-06 |
| 1714 | 257260.1 | 4085078 | 2.58E-05 | 3.72E-04 | 2.75E-04 | 2.75E-04 | 1.53E-04 | 3.91E-06 | 5.67E-05 | 4.29E-06 | 4.29E-05 | 2.36E-05 | 2.12E-06 | 3.07E-05 | 1.91E-05 | 1.91E-05 | 9.44E-06 |
| 1715 | 257261.7 | 4085122 | 3.01E-05 | 4.35E-04 | 3.21E-04 | 3.21E-04 | 1.79E-04 | 4.57E-06 | 6.63E-06 | 5.01E-05 | 5.01E-06 | 2.75E-06 | 2.48E-06 | 3.59E-05 | 2.23E-05 | 2.23E-05 | 1.10E-06 |
| 1716 | 257263.4 | 4085167 | 3.49E-05 | 5.05E-04 | 3.73E-04 | 3.73E-04 | 2.08E-04 | 5.30E-06 | 7.70E-05 | 5.82E-06 | 5.82E-06 | 3.20E-06 | 2.88E-06 | 4.17E-05 | 2.59E-05 | 2.59E-05 | 1.28E-05 |
| 1717 | 257163.6 | 4084949 | 1.16E-05 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.90E-05 | 1.76E-06 | 2.56E-05 | 1.93E-05 | 1.93E-06 | 1.06E-05 | 9.57E-07 | 1.38E-05 | 8.60E-06 | 8.60E-06 | 4.26E-06 |
| 1718 | 257178.7 | 4084909 | 1.02E-05 | 1.48E-04 | 1.09E-04 | 1.09E-04 | 6.06E-05 | 1.55E-06 | 2.25E-05 | 1.70E-06 | 1.70E-05 | 9.33E-06 | 8.41E-07 | 1.22E-05 | 7.55E-06 | 7.55E-06 | 3.74E-06 |
| 1719 | 257193.9 | 4084868 | 9.03E-06 | 1.31E-04 | 9.62E-05 | 9.62E-05 | 5.37E-05 | 1.37E-06 | 1.99E-05 | 1.50E-05 | 1.50E-05 | 8.26E-06 | 7.44E-07 | 1.08E-05 | 6.69E-06 | 6.69E-06 | 3.31E-06 |
| 1720 | 257209 | 4084827 | 8.11E-06 | 1.17E-04 | 8.65E-06 | 8.65E-05 | 4.82E-05 | 1.23E-06 | 1.79E-06 | 1.35E-05 | 1.35E-05 | 7.42E-06 | 6.69E-07 | 9.67E-06 | 6.01E-06 | 6.01E-06 | 2.97E-06 |
| 1721 | 257224.2 | 4084786 | 7.36E-06 | 1.06E-04 | 7.85E-06 | 7.85E-05 | 4.37E-05 | 1.12E-06 | 1.62E-05 | 1.23E-06 | 1.23E-06 | 6.74E-06 | 6.07E-07 | 8.78E-06 | 5.45E-06 | 5.45E-06 | 2.70E-06 |
| 1722 | 257239.3 | 4084745 | 6.73E-06 | 9.73E-05 | 7.17E-06 | 7.17E-05 | 4.00E-05 | 1.02E-06 | 1.48E-05 | 1.12E-06 | 1.12E-05 | 6.15E-06 | 5.54E-07 | 8.02E-06 | 4.98E-06 | 4.98E-06 | 2.47E-06 |
| 1723 | 257254.5 | 4084704 | 6.15E-06 | 8.89E-05 | 6.55E-05 | 6.55E-05 | 3.65E-05 | 9.33E-07 | 1.35E-05 | 1.02E-05 | 1.02E-05 | 5.63E-06 | 5.07E-07 | 7.33E-06 | 4.55E-06 | 4.55E-06 | 2.25E-06 |
| 1724 | 257281.9 | 4084674 | 5.91E-06 | 8.55E-05 | 6.30E-05 | 6.30E-05 | 3.51E-05 | 8.97E-07 | 1.30E-05 | 9.84E-06 | 9.84E-06 | 5.41E-06 | 4.87E-07 | 7.05E-06 | 4.38E-06 | 4.38E-06 | 2.17E-06 |
| 1725 | 257321.5 | 4084656 | 5.99E-06 | 8.67E-05 | 6.39E-05 | 6.39E-05 | 3.56E-05 | 9.09E-07 | 1.32E-05 | 9.97E-06 | 9.97E-06 | 5.48E-06 | 4.94E-07 | 7.14E-06 | 4.44E-06 | 4.44E-06 | 2.20E-06 |
| 1726 | 257361.1 | 4084638 | 6.07E-06 | 8.78E-05 | 6.47E-05 | 6.47E-06 | 3.61E-05 | 9.21E-07 | 1.34E-05 | 1.01E-05 | 1.01E-05 | 5.56E-06 | 5.00E-07 | 7.24E-06 | 4.50E-06 | 4.50E-06 | 2.23E-06 |
| 1727 | 257400.7 | 4084619 | 6.15E-06 | 8.89E-05 | 6.55E-05 | 6.55E-05 | 3.65E-05 | 9.33E-07 | 1.35E-06 | 1.02E-06 | 1.02E-05 | 5.63E-06 | 5.07E-07 | 7.33E-06 | 4.55E-06 | 4.55E-06 | 2.25E-06 |
| 1728 | 257440.3 | 4084601 | 6.23E-06 | 9.01E-06 | 6.64E-06 | 6.64E-05 | 3.70E-05 | 9.45E-07 | 1.37E-05 | 1.04E-05 | 1.04E-05 | 5.70E-06 | 5.13E-07 | 7.43E-06 | 4.61E-06 | 4.61E-06 | 2.28E-06 |
| 1729 | 257479.9 | 4084583 | 6.34E-06 | 9.18E-05 | 6.76E-06 | 6.76E-05 | 3.77E-05 | 9.63E-07 | 1.40E-05 | 1.06E-06 | 1.06E-05 | 5.81E-06 | 5.23E-07 | 7.56E-06 | 4.70E-06 | 4.70E-06 | 2.33E-06 |
| 1730 | 257156.8 | 4084992 | 1.35E-05 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.00E-06 | 2.04E-06 | 2.97E-06 | 2.24E-05 | 2.24E-05 | 1.23E-05 | 1.11E-06 | 1.60E-05 | 9.97E-06 | 9.97E-06 | 4.94E-06 |
| 1731 | 257158.5 | 4085037 | 1.56E-05 | 2.26E-04 | 1.67E-04 | 1.67E-04 | 9.30E-05 | 2.37E-06 | 3.45E-05 | 2.60E-05 | 2.60E-05 | 1.43E-05 | 1.29E-06 | 1.87E-05 | 1.16E-05 | 1.16E-05 | 5.73E-06 |
| 1732 | 257160.1 | 4085081 | 1.77E-05 | 2.56E-04 | 1.89E-04 | 1.89E-04 | 1.05E-04 | 2.69E-06 | 3.90E-05 | 2.95E-06 | 2.95E-05 | 1.62E-05 | 1.46E-06 | 2.11E-05 | 1.31E-05 | 1.31E-05 | 6.49E-06 |
| 1733 | 257161.8 | 4085126 | 1.97E-05 | 2.85E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 2.99E-06 | 4.33E-06 | 3.27E-05 | 3.27E-05 | 1.80E-06 | 1.62E-06 | 2.35E-05 | 1.46E-05 | 1.46E-06 | 7.21E-06 |
| 1734 | 257162.6 | 4085148 | 2.07E-05 | 3.00E-04 | 2.21E-04 | 2.21E-04 | 1.23E-04 | 3.14E-06 | 4.57E-06 | 3.45E-05 | 3.45E-05 | 1.90E-06 | 1.71E-06 | 2.47E-05 | 1.53E-05 | 1.51E-06 | 7.60E-06 |
| 1735 | 257063.4 | 4084954 | 9.43E-06 | 1.36E-04 | 1.00E-04 | 1.00E-04 | 5.60E-05 | 1.43E-06 | 2.08E-05 | 1.57E-05 | 1.57E-06 | 8.63E-06 | 7.77E-07 | 1.12E-05 | 6.98E-06 | 6.98E-06 | 3.46E-06 |
| 1736 | 257078.2 | 4084914 | 8.43E-06 | 1.22E-04 | 8.98E-05 | 8.98E-05 | 5.01E-05 | 1.28E-06 | 1.86E-05 | 1.40E-05 | 1.40E-05 | 7.71E-06 | 6.95E-07 | 1.00E-05 | 6.24E-06 | 6.24E-06 | 3.09E-06 |
| 1737 | 257092.9 | 4084874 | 7.56E-06 | 1.09E-04 | 8.05E-06 | 8.05E-06 | 4.49E-05 | 1.15E-06 | 1.66E-05 | 1.26E-05 | 1.26E-06 | 6.91E-06 | 6.23E-07 | 9.01E-06 | 5.59E-06 | 5.59E-06 | 2.77E-06 |
| 1738 | 257107.6 | 4084834 | 6.83E-06 | 9.88E-05 | 7.29E-05 | 7.29E-05 | 4.06E-05 | 1.04E-06 | 1.51E-06 | 1.14E-05 | 1.14E-05 | 6.25E-06 | 5.63E-07 | 8.15E-06 | 5.06E-06 | 5.06E-06 | 2.51E-06 |
| 1739 | 257122.4 | 4084795 | 6.25E-06 | 9.03E-05 | 6.66E-05 | 6.66E-05 | 3.71E-05 | 9.48E-07 | 1.38E-06 | 1.04E-05 | 1.04E-05 | 5.72E-06 | 5.15E-07 | 7.45E-06 | 4.63E-06 | 4.63E-06 | 2.29E-06 |
| 1740 | 257137.1 | 4084755 | 5.75E-06 | 8.32E-05 | 6.13E-05 | 6.13E-05 | 3.42E-05 | 8.73E-07 | 1.27E-06 | 9.57E-06 | 9.57E-06 | 5.26E-06 | 4.74E-07 | 6.85E-06 | 4.26E-06 | 4.26E-06 | 2.11E-06 |
| 1741 | 257151.8 | 4084715 | 5.33E-06 | 7.71E-05 | 5.68E-05 | 5.68E-05 | 3.17E-05 | 8.09E-07 | 1.17E-06 | 8.87E-06 | 8.87E-06 | 4.88E-06 | 4.39E-07 | 6.35E-06 | 3.95E-06 | 3.95E-06 | 1.95E-06 |
| 1742 | 257166.6 | 4084675 | 4.95E-06 | 7.16E-05 | 5.28E-05 | 5.28E-05 | 2.94E-05 | 7.51E-07 | 1.09E-06 | 8.24E-06 | 8.24E-06 | 4.53E-06 | 4.08E-07 | 5.90E-06 | 3.66E-06 | 3.66E-06 | 1.81E-06 |
| 1743 | 257181.3 | 4084635 | 4.59E-06 | 6.64E-05 | 4.89E-05 | 4.89E-05 | 2.73E-05 | 6.96E-07 | 1.01E-05 | 7.64E-06 | 7.64E-06 | 4.20E-06 | 3.78E-07 | 5.47E-06 | 3.40E-06 | 3.40E-06 | 1.68E-06 |
| 1744 | 257207.9 | 4084607 | 4.44E-06 | 6.42E-05 | 4.73E-05 | 4.73E-05 | 2.64E-05 | 6.73E-07 | 9.78E-06 | 7.38E-06 | 7.38E-06 | 4.06E-06 | 3.66E-07 | 5.29E-06 | 3.29E-06 | 3.29E-06 | 1.63E-06 |
| 1745 | 257246.4 | 4084589 | 4.48E-06 | 6.48E-05 | 4.78E-05 | 4.78E-05 | 2.66E-05 | 6.80E-07 | 9.87E-06 | 7.46E-06 | 7.46E-06 | 4.10E-06 | 3.69E-07 | 5.34E-06 | 3.32E-06 | 3.32E-06 | 1.64E-06 |
| 1746 | 257284.9 | 4084571 | 4.54E-06 | 6.56E-05 | 4.84E-05 | 4.84E-05 | 2.70E-05 | 6.89E-07 | 1.00E-06 | 7.55E-06 | 7.55E-06 | 4.15E-06 | 3.74E-07 | 5.41E-06 | 3.36E-06 | 3.36E-06 | 1.66E-06 |
| 1747 | 257323.4 | 4084553 | 4.60E-06 | 6.66E-05 | 4.91E-05 | 4.91E-05 | 2.74E-05 | 6.98E-07 | 1.01E-05 | 7.66E-06 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1542 | 258974.8 | 4083674 | 6.18E-06 | 8.94E-05 | 6.59E-05 | 6.59E-05 | 3.67E-05 | 9.38E-07 | 1.36E-05 | 1.03E-05 | 1.03E-05 | 5.65E-06 | 5.09E-07 | 7.37E-06 | 4.58E-06 | 4.58E-05 | 2.26E-06 |
| 1543 | 258997.4 | 4083683 | 6.41E-06 | 9.27E-05 | 6.84E-05 | 6.84E-05 | 3.81E-05 | 9.73E-07 | 1.41E-05 | 1.07E-05 | 1.07E-05 | 5.87E-06 | 5.29E-07 | 7.64E-06 | 4.75E-06 | 4.75E-06 | 2.35E-06 |
| 1544 | 259020 | 4083691 | 6.65E-06 | 9.61E-05 | 7.09E-05 | 7.09E-05 | 3.95E-05 | 1.01E-06 | 1.46E-05 | 1.11E-05 | 1.11E-05 | 6.08E-06 | 5.48E-07 | 7.92E-06 | 4.92E-06 | 4.92E-06 | 2.44E-06 |
| 1545 | 259042.6 | 4083699 | 6.88E-06 | 9.96E-05 | 7.34E-05 | 7.34E-05 | 4.09E-05 | 1.04E-06 | 1.52E-05 | 1.15E-05 | 1.15E-05 | 6.30E-06 | 5.67E-07 | 8.21E-06 | 5.10E-06 | 5.10E-06 | 2.52E-06 |
| 1546 | 259065.2 | 4083708 | 7.12E-06 | 1.03E-04 | 7.59E-05 | 7.59E-05 | 4.23E-05 | 1.08E-06 | 1.57E-05 | 1.18E-05 | 1.18E-05 | 6.51E-06 | 5.87E-07 | 8.48E-06 | 5.27E-06 | 5.27E-05 | 2.61E-06 |
| 1547 | 259087.8 | 4083716 | 7.35E-06 | 1.06E-04 | 7.83E-05 | 7.83E-05 | 4.37E-05 | 1.12E-06 | 1.62E-05 | 1.22E-05 | 1.22E-05 | 6.72E-06 | 6.06E-07 | 8.76E-06 | 5.44E-06 | 5.44E-06 | 2.69E-06 |
| 1548 | 259110.3 | 4083724 | 7.58E-06 | 1.10E-04 | 8.08E-05 | 8.08E-06 | 4.50E-05 | 1.15E-06 | 1.67E-05 | 1.26E-05 | 1.26E-05 | 6.93E-06 | 6.25E-07 | 9.03E-06 | 5.61E-06 | 5.61E-06 | 2.78E-06 |
| 1549 | 259132.9 | 4083733 | 7.80E-06 | 1.13E-04 | 8.32E-05 | 8.32E-06 | 4.64E-05 | 1.18E-06 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.14E-06 | 6.43E-07 | 9.30E-06 | 5.78E-06 | 5.78E-06 | 2.86E-06 |
| 2550 | 259255.5 | 4083741 | 8.02E-06 | 1.16E-04 | 8.55E-05 | 8.55E-06 | 4.76E-05 | 1.22E-06 | 1.77E-05 | 1.33E-05 | 1.33E-05 | 7.34E-06 | 6.61E-07 | 9.56E-06 | 5.94E-06 | 5.94E-06 | 2.94E-06 |
| 2551 | 259178.1 | 4083750 | 8.22E-06 | 1.19E-04 | 8.77E-05 | 8.77E-05 | 4.89E-05 | 1.25E-06 | 1.81E-05 | 1.37E-06 | 1.37E-06 | 7.52E-06 | 6.78E-07 | 9.80E-06 | 6.09E-06 | 6.09E-06 | 3.01E-06 |
| 2552 | 259200.7 | 4083758 | 8.42E-06 | 1.22E-04 | 8.98E-05 | 8.98E-05 | 5.00E-05 | 1.28E-06 | 1.86E-05 | 1.40E-05 | 1.40E-06 | 7.70E-06 | 6.94E-07 | 1.00E-05 | 6.24E-06 | 6.24E-06 | 3.09E-06 |
| 1553 | 259223.3 | 4083766 | 8.60E-06 | 1.24E-04 | 9.17E-05 | 9.17E-05 | 5.11E-05 | 1.31E-06 | 1.90E-05 | 1.43E-05 | 1.43E-05 | 7.87E-06 | 7.09E-07 | 1.03E-05 | 6.37E-06 | 6.37E-06 | 3.15E-06 |
| 2554 | 259245.9 | 4083775 | 8.77E-06 | 1.27E-04 | 9.35E-05 | 9.35E-05 | 5.21E-05 | 1.33E-06 | 1.93E-05 | 1.46E-05 | 1.46E-05 | 8.03E-06 | 7.23E-07 | 1.05E-05 | 6.50E-06 | 6.50E-06 | 3.22E-06 |
| 1555 | 259268.5 | 4083783 | 8.92E-06 | 1.29E-04 | 9.51E-05 | 9.51E-05 | 5.30E-05 | 1.35E-06 | 1.97E-05 | 1.49E-05 | 1.49E-05 | 8.17E-06 | 7.36E-07 | 1.06E-05 | 6.61E-06 | 6.61E-06 | 3.27E-06 |
| 1556 | 259291.1 | 4083791 | 9.06E-06 | 1.31E-04 | 9.66E-05 | 9.66E-05 | 5.39E-05 | 1.38E-06 | 2.00E-05 | 1.51E-05 | 1.51E-05 | 8.29E-06 | 7.47E-07 | 1.08E-05 | 6.71E-06 | 6.71E-06 | 3.32E-06 |
| 1557 | 259313.7 | 4083800 | 9.18E-06 | 1.33E-04 | 9.79E-05 | 9.79E-05 | 5.46E-05 | 1.39E-06 | 2.02E-05 | 1.53E-06 | 1.53E-05 | 8.40E-06 | 7.57E-07 | 1.09E-05 | 6.80E-06 | 6.80E-06 | 3.37E-06 |
| 1558 | 259336.3 | 4083808 | 9.29E-06 | 1.34E-04 | 9.90E-05 | 9.90E-05 | 5.52E-05 | 1.41E-06 | 2.05E-05 | 1.55E-05 | 1.55E-05 | 8.50E-06 | 7.66E-07 | 1.11E-05 | 6.88E-06 | 6.88E-06 | 3.40E-06 |
| 2559 | 259358.8 | 4083816 | 9.38E-06 | 1.36E-04 | 1.00E-04 | 1.00E-04 | 5.57E-05 | 1.42E-06 | 2.07E-05 | 1.56E-05 | 1.56E-05 | 8.58E-06 | 7.73E-07 | 1.12E-05 | 6.95E-06 | 6.95E-06 | 3.44E-06 |
| 1560 | 259291.4 | 4083847 | 9.69E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.76E-05 | 1.47E-06 | 2.13E-05 | 1.61E-05 | 1.61E-05 | 8.87E-06 | 7.99E-07 | 1.16E-05 | 7.17E-06 | 7.17E-06 | 3.55E-06 |
| 2561 | 259401.3 | 4083869 | 9.92E-06 | 1.43E-04 | 1.06E-04 | 1.06E-04 | 5.89E-05 | 1.51E-06 | 2.19E-05 | 1.65E-05 | 1.65E-05 | 9.08E-06 | 8.18E-07 | 1.18E-05 | 7.34E-06 | 7.34E-06 | 3.64E-06 |
| 1562 | 259411.2 | 4083891 | 1.01E-05 | 1.47E-04 | 1.08E-04 | 1.08E-04 | 6.02E-06 | 1.54E-06 | 2.23E-05 | 1.69E-05 | 1.69E-05 | 9.27E-06 | 8.35E-07 | 1.21E-05 | 7.51E-06 | 7.51E-06 | 3.72E-06 |
| 1563 | 259421.2 | 4083913 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.14E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.46E-06 | 8.52E-07 | 1.23E-05 | 7.65E-06 | 7.65E-06 | 3.79E-06 |
| 1564 | 259431.1 | 4083935 | 1.05E-05 | 1.52E-04 | 1.12E-04 | 1.12E-04 | 6.25E-05 | 1.60E-06 | 2.32E-05 | 1.75E-05 | 1.75E-05 | 9.63E-06 | 8.67E-07 | 1.25E-05 | 7.79E-06 | 7.79E-06 | 3.86E-06 |
| 1565 | 259441 | 4083956 | 1.07E-05 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 6.35E-05 | 1.62E-06 | 2.36E-05 | 1.78E-05 | 1.78E-05 | 9.78E-06 | 8.81E-07 | 1.27E-05 | 7.92E-06 | 7.92E-06 | 3.92E-06 |
| 1566 | 259450.9 | 4083978 | 1.08E-05 | 1.57E-04 | 1.15E-04 | 1.15E-04 | 6.44E-05 | 1.64E-06 | 2.39E-05 | 1.80E-05 | 1.80E-05 | 9.91E-06 | 8.93E-07 | 1.29E-05 | 8.02E-06 | 8.02E-06 | 3.97E-06 |
| 1567 | 259460.9 | 4084000 | 1.10E-05 | 1.59E-04 | 1.17E-04 | 1.17E-04 | 6.51E-05 | 1.66E-06 | 2.41E-05 | 1.82E-05 | 1.82E-05 | 1.00E-05 | 9.03E-07 | 1.31E-05 | 8.12E-06 | 8.12E-06 | 4.02E-06 |
| 2568 | 259470.8 | 4084022 | 1.11E-05 | 1.60E-04 | 1.18E-04 | 1.18E-04 | 6.57E-05 | 1.68E-06 | 2.44E-05 | 1.84E-05 | 1.84E-05 | 1.01E-05 | 9.12E-07 | 1.32E-05 | 8.19E-06 | 8.19E-06 | 4.05E-06 |
| 2569 | 259480.7 | 4084044 | 1.11E-05 | 1.61E-04 | 1.19E-04 | 1.19E-04 | 6.62E-05 | 1.69E-06 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.02E-05 | 9.18E-07 | 1.33E-05 | 8.25E-06 | 8.25E-06 | 4.08E-06 |
| 2570 | 259490.7 | 4084066 | 1.12E-05 | 1.62E-04 | 1.19E-04 | 1.19E-04 | 6.65E-05 | 1.70E-06 | 2.47E-05 | 1.86E-05 | 1.86E-05 | 1.02E-05 | 9.22E-07 | 1.33E-05 | 8.29E-06 | 8.29E-06 | 4.10E-06 |
| 2571 | 259500.6 | 4084088 | 1.12E-05 | 1.62E-04 | 1.20E-04 | 1.20E-04 | 6.67E-05 | 1.70E-06 | 2.47E-05 | 1.87E-05 | 1.87E-05 | 1.03E-05 | 9.24E-07 | 1.34E-06 | 8.31E-06 | 8.31E-06 | 4.11E-06 |
| 2572 | 259510.5 | 4084110 | 1.12E-05 | 1.62E-04 | 1.20E-04 | 1.20E-04 | 6.66E-05 | 1.70E-06 | 2.47E-05 | 1.87E-05 | 1.87E-05 | 1.03E-05 | 9.24E-07 | 1.34E-06 | 8.30E-06 | 8.30E-06 | 4.11E-06 |
| 1573 | 259520.4 | 4084132 | 1.12E-05 | 1.62E-04 | 1.19E-04 | 1.19E-04 | 6.65E-06 | 1.70E-06 | 2.46E-05 | 1.86E-05 | 1.86E-05 | 1.02E-05 | 9.22E-07 | 1.33E-06 | 8.28E-06 | 8.28E-06 | 4.10E-06 |
| 2574 | 259530.4 | 4084154 | 1.11E-05 | 1.61E-04 | 1.19E-04 | 1.19E-04 | 6.61E-05 | 1.69E-06 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.02E-05 | 9.17E-07 | 1.33E-05 | 8.24E-06 | 8.24E-06 | 4.08E-06 |
| 2575 | 259540.3 | 4084176 | 1.10E-05 | 1.60E-04 | 1.18E-04 | 1.18E-04 | 6.56E-05 | 1.68E-06 | 2.43E-05 | 1.84E-05 | 1.84E-05 | 1.01E-05 | 9.10E-07 | 1.32E-05 | 8.18E-06 | 8.18E-06 | 4.05E-06 |
| 2576 | 259550.2 | 4084198 | 1.09E-05 | 1.58E-04 | 1.17E-04 | 1.17E-04 | 6.50E-05 | 1.66E-06 | 2.41E-05 | 1.82E-05 | 1.82E-05 | 1.00E-05 | 9.01E-07 | 1.30E-05 | 8.10E-06 | 8.10E-06 | 4.01E-06 |
| 2577 | 259560.2 | 4084220 | 1.08E-05 | 1.56E-04 | 1.25E-04 | 1.15E-04 | 6.42E-05 | 1.64E-06 | 2.38E-05 | 1.80E-05 | 1.80E-05 | 9.89E-06 | 8.91E-07 | 1.29E-05 | 8.00E-06 | 8.00E-06 | 3.96E-06 |
| 2578 | 259570.1 | 4084242 | 1.07E-05 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.33E-06 | 1.62E-06 | 2.35E-05 | 1.77E-05 | 1.77E-05 | 9.75E-06 | 8.78E-07 | 1.27E-06 | 7.89E-06 | 7.89E-06 | 3.91E-06 |
| 2579 | 259580 | 4084264 | 1.05E-05 | 1.52E-04 | 1.12E-04 | 1.12E-04 | 6.23E-06 | 1.59E-06 | 2.31E-05 | 1.75E-05 | 1.75E-05 | 9.60E-06 | 8.65E-07 | 1.25E-05 | 7.77E-06 | 7.77E-06 | 3.85E-06 |
| 1580 | 259590 | 4084286 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.13E-05 | 1.57E-06 | 2.27E-05 | 1.72E-05 | 1.72E-05 | 9.44E-06 | 8.50E-07 | 1.23E-05 | 7.64E-06 | 7.64E-06 | 3.78E-06 |
| 1581 | 259599.9 | 4084308 | 1.01E-06 | 1.46E-04 | 1.08E-04 | 1.08E-04 | 6.02E-05 | 1.54E-06 | 2.23E-05 | 1.69E-05 | 1.69E-05 | 9.27E-06 | 8.35E-07 | 1.21E-05 | 7.50E-06 | 7.50E-06 | 3.71E-06 |
| 1582 | 259609.8 | 4084330 | 9.94E-06 | 1.44E-04 | 1.06E-04 | 1.06E-04 | 5.91E-05 | 1.51E-06 | 2.19E-05 | 1.65E-05 | 1.65E-05 | 9.09E-06 | 8.19E-07 | 1.18E-05 | 7.36E-06 | 7.36E-06 | 3.64E-06 |
| 2583 | 259619.7 | 4084352 | 9.75E-06 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.80E-05 | 1.48E-06 | 2.15E-05 | 1.62E-05 | 1.62E-05 | 8.92E-06 | 8.04E-07 | 1.16E-06 | 7.22E-06 | 7.22E-06 | 3.57E-06 |
| 1584 | 259629.7 | 4084374 | 9.57E-06 | 1.38E-04 | 1.02E-04 | 1.02E-04 | 5.69E-05 | 1.45E-06 | 2.11E-05 | 1.59E-05 | 1.59E-05 | 8.75E-06 | 7.89E-07 | 1.14E-05 | 7.09E-06 | 7.09E-06 | 3.51E-06 |
| 1585 | 259639.6 | 4084395 | 9.39E-06 | 1.36E-04 | 1.00E-04 | 1.00E-04 | 5.58E-05 | 1.42E-06 | 2.07E-05 | 1.56E-05 | 1.56E-05 | 8.59E-06 | 7.74E-07 | 1.12E-05 | 6.95E-06 | 6.95E-06 | 3.44E-06 |
| 1586 | 259649.5 | 4084417 | 9.25E-06 | 1.34E-04 | 9.86E-05 | 9.86E-05 | 5.49E-05 | 1.40E-06 | 2.04E-05 | 1.54E-05 | 1.54E-05 | 8.46E-06 | 7.62E-07 | 1.10E-05 | 6.85E-06 | 6.85E-06 | 3.39E-06 |
| 2587 | 259659.5 | 4084439 | 9.07E-06 | 1.31E-04 | 9.67E-06 | 9.67E-05 | 5.39E-05 | 1.38E-06 | 2.00E-05 | 1.51E-05 | 1.51E-05 | 8.30E-06 | 7.48E-07 | 1.08E-05 | 6.72E-06 | 6.72E-06 | 3.32E-06 |
| 1588 | 259669.4 | 4084461 | 8.89E-06 | 1.29E-04 | 9.48E-05 | 9.48E-05 | 5.28E-05 | 1.35E-06 | 1.96E-05 | 1.48E-05 | 1.46E-05 | 8.14E-06 | 7.33E-07 | 1.06E-05 | 6.58E-06 | 6.58E-06 | 3.26E-06 |
| 1589 | 259679.3 | 4084483 | 8.70E-06 | 1.26E-04 | 9.27E-05 | 9.27E-05 | 5.17E-05 | 1.32E-06 | 1.92E-05 | 1.45E-05 | 1.45E-06 | 7.96E-06 | 7.17E-07 | 1.04E-05 | 6.44E-06 | 6.44E-06 | 3.19E-06 |
| 2590 | 259689.2 | 4084505 | 8.50E-06 | 1.23E-04 | 9.06E-05 | 9.06E-05 | 5.05E-05 | 1.29E-06 | 1.87E-05 | 1.41E-05 | 1.41E-05 | 7.77E-06 | 7.00E-07 | 1.01E-05 | 6.29E-06 | 6.29E-06 | 3.11E-06 |
| 2591 | 259699.2 | 4084527 | 8.28E-06 | 1.20E-04 | 8.82E-06 | 8.82E-06 | 4.92E-06 | 1.26E-06 | 1.82E-05 | 1.38E-05 | 1.38E-06 | 7.57E-06 | 6.82E-07 | 9.87E-06 | 6.13E-06 | 6.13E-06 | 3.03E-06 |
| 2592 | 259709.1 | 4084549 | 8.04E-06 | 1.16E-04 | 8.57E-05 | 8.57E-05 | 4.78E-05 | 1.22E-06 | 1.77E-05 | 1.34E-05 | 1.34E-05 | 7.36E-06 | 6.63E-07 | 9.58E-06 | 5.95E-06 | 5.95E-06 | 2.95E-06 |
| 2593 | 259719 | 4084571 | 7.79E-06 | 1.13E-04 | 8.30E-05 | 8.30E-06 | 4.63E-05 | 1.18E-06 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.13E-06 | 6.42E-07 | 9.28E-06 | 5.77E-06 | 5.77E-06 | 2.85E-06 |
| 1594 | 259729 | 4084593 | 7.52E-06 | 1.09E-04 | 8.02E-05 | 8.02E-05 | 4.47E-05 | 1.14E-06 | 1.66E-05 | 1.25E-05 | 1.25E-05 | 6.89E-06 | 6.20E-07 | 8.97E-06 | 5.57E-06 | 5.57E-06 | 2.76E-06 |
| 2595 | 259738.9 | 4084615 | 7.26E-06 | 1.05E-04 | 7.74E-05 | 7.74E-05 | 4.32E-05 | 1.10E-06 | 1.60E-05 | 1.21E-05 | 1.21E-05 | 6.65E-06 | 5.99E-07 | 8.66E-06 | 5.38E-06 | 5.38E-06 | 2.66E-06 |
| 1596 | 259748.8 | 4084637 | 7.00E-06 | 1.01E-04 | 7.47E-05 | 7.47E-05 | 4.16E-05 | 1.06E-06 | 1.54E-05 | 1.17E-05 | 1.17E-06 | 6.41E-06 | 5.77E-07 | 8.35E-06 | 5.19E-06 | 5.19E-06 | 2.57E-06 |
| 1597 | 259758.8 | 4084659 | 6.76E-06 | 9.78E-05 | 7.21E-05 | 7.21E-05 | 4.02E-05 | 1.03E-06 | 1.49E-05 | 1.13E-05 | 1.13E-05 | 6.19E-06 | 5.57E-07 | 8.06E-06 | 5.01E-06 | 5.01E-06 | 2.48E-06 |
| 2598 | 259768.7 | 4084681 | 6.54E-06 | 9.46E-05 | 6.97E-05 | 6.97E-05 | 3.89E-05 | 9.92E-07 | 1.44E-05 | 1.09E-05 | 1.09E-05 | 5.98E-06 | 5.39E-07 | 7.80E-06 | 4.84E-06 | 4.84E-06 | 2.40E-06 |
| 2599 | 259778.6 | 4084703 | 6.34E-06 | 9.17E-05 | 6.76E-05 | 6.76E-05 | 3.77E-06 | 9.62E-07 | 1.40E-05 | 1.05E-05 | 1.05E-05 | 5.80E-06 | 5.22E-07 | 7.56E-06 | 4.69E-06 | 4.69E-06 | 2.32E-06 |
| 1600 | 259788.5 | 4084725 | 6.16E-06 | 8.91E-05 | 6.56E-05 | 6.56E-05 | 3.66E-05 | 9.35E-07 | 1.36E-05 | 1.02E-05 | 1.02E-05 | 5.63E-06 | 5.08E-07 | 7.34E-06 | 4.56E-06 | 4.56E-06 | 2.26E-06 |
| 1601 | 259798.5 | 4084747 | 5.99E-06 | 8.67E-05 | 6.39E-06 | 6.39E-05 | 3.56E-05 | 9.09E-07 | 1.32E-05 | 9.97E-06 | 9.97E-06 | 5.48E-06 | 4.94E-07 | 7.14E-06 | 4.44E-06 | 4.44E-06 | 2.20E-06 |
| 1602 | 259808.4 | 4084769 | 5.84E-06 | 8.44E-06 | 6.22E-05 | 6.22E-05 | 3.47E-05 | 8.86E-07 | 1.29E-05 | 9.71E-06 | 9.71E-06 | 5.34E-06 | 4.81E-07 | 6.96E-06 | 4.32E-06 | 4.32E-06 | 2.14E-06 |
| 1603 | 259818.3 | 4084791 | 5.68E-06 | 8.22E-05 | 6.06E-05 | 6.06E-05 | 3.38E-05 | 8.63E-07 | 1.25E-05 | 9.46E-06 | 9.46E-06 | 5.20E-06 | 4.69E-07 | 6.78E-06 | 4.21E-06 | 4.21E-06 | 2.08E-06 |
| 1604 | 259828.3 | 4084812 | 5.53E-06 | 8.00E-05 | 5.90E-05 | 5.90E-05 | 3.29E-05 | 8.39E-07 | 1.22E-05 | 9.21E-06 | 9.21E-06 | 5.06E-06 | 4.56E-07 | 6.59E-06 | 4.10E-06 | 4.10E-06 | 2.03E-06 |
| 1605 | 259838.2 | 4084834 | 5.37E-06 | 7.77E-05 | 5.73E-05 | 5.73E-05 | 3.19E-05 | 8.15E-07 | 1.18E-05 | 8.94E-06 | 8.94E-06 | 4.92E-06 | 4.43E-07 | 6.41E-06 | 3.98E-06 | 3.98E-06 | 1.97E-06 |
| 1606 | 259848.1 | 4084856 | 5.21E-06 | 7.53E-05 | 5.55E-06 | 5.55E-05 | 3.10E-06 | 7.91E-07 | 1.25E-05 | 8.67E-06 | 8.67E-06 | 4.77E-06 | 4.29E-07 | 6.21E-06 | 3.86E-06 | 3.86E-06 | 1.91E-06 |
| 1607 | 258297.1 | 4083423 | 1.87E-06 | 2.71E-05 | 2.00E-05 | 2.00E-05 | 1.11E-06 | 2.85E-07 | 4.13E-06 | 3.12E-06 | 3.12E-06 | 1.72E-06 | 1.55E-07 | 2.24E-06 | 1.39E-06 | 1.39E-06 | 6.87E-07 |
| 1608 | 258272.7 | 4083424 | 1.84E-06 | 2.66E-05 | 1.96E-05 | 1.96E-05 | 1.09E-05 | 2.79E-07 | 4.05E-06 | 3.06E-06 | 3.06E-06 | 1.68E-06 | 1.52E-07 | 2.19E-06 | 1.36E-06 | 1.36E-06 | 6.74E-07 |
| 1609 | 258248.4 | 4083425 | 1.80E-06 | 2.61E-05 | 1.92E-05 | 1.92E-05 | 1.07E-06 | 2.74E-07 | 3.97E-06 | 3.00E-06 | 3.00E-06 | 1.65E-06 | 1.49E-07 | 2.15E-06 | 1.34E-06 | 1.34E-06 | 6.61E-07 |
| 1610 | 258224.1 | 4083426 | 1.77E-06 | 2.56E-05 | 1.89E-05 | 1.89E-05 | 1.05E-05 | 2.69E-07 | 3.90E-06 | 2.95E-06 | 2.95E-06 | 1.62E-06 | 1.46E-07 | 2.11E-06 | 1.31E-06 | 1.31E-06 | 6.49E-07 |
| 1611 | 258199.7 | 4083427 | 1.74E-06 | 2.51E-05 | 1.85E-05 | 1.85E-05 | 1.03E-05 | 2.64E-07 | 3.83E-06 | 2.89E-06 | 2.89E-06 | 1.59E-06 | 1.43E-07 | 2.07E-06 | 1.29E-06 | 1.29E-06 | 6.37E-07 |
| 1612 | 258175.4 | 4083428 | 1.71E-06 | 2.47E-05 | 1.82E-05 | 1.82E-05 | 1.01E-05 | 2.59E-07 | 3.76E-06 | 2.84E-06 | 2.84E-06 | 1.56E-06 | 1.41E-07 | 2.04E-06 | 1.26E-06 | 1.26E-06 | 6.26E-07 |
| 1613 | 258151.1 | 4083429 | 1.68E-06 | 2.42E-05 | 1.79E-05 | 1.79E-05 | 9.96E-06 | 2.54E-07 | 3.69E-06 | 2.79E-06 | 2.79E-06 | 1.53E-06 | 1.38E-07 | 2.00E-06 | 1.24E-06 | 1.24E-06 | 6.14E-07 |
| 1614 | 258126.7 | 4083430 | 1.65E-06 | 2.38E-05 | 1.75E-06 | 1.75E-05 | 9.78E-06 | 2.50E-07 | 3.63E-06 | 2.74E-06 | 2.74E-06 | 1.51E-06 | 1.36E-07 | 1.96E-06 | 1.22E-06 | 1.22E-06 | 6.03E-07 |
| 1615 | 258102.4 | 4083431 | 1.61E-06 | 2.34E-05 | 1.72E-05 | 1.72E-05 | 9.60E-06 | 2.45E-07 | 3.56E-06 | 2.69E-06 | 2.69E-06 | 1.48E-06 | 1.33E-07 | 1.93E-06 | 1.20E-06 | 1.20E-06 | 5.92E-07 |
| 1616 | 258078.1 | 4083432 | 1.58E-06 | 2.29E-05 | 1.69E-05 | 1.69E-06 | 9.41E-06 | 2.40E-07 | 3.49E-06 | 2.64E-06 | 2.64E-06 | 1.45E-06 | 1.31E-07 | 1.89E-06 | 1.17E-06 | 1.17E-06 | 5.81E-07 |
| 1617 | 258053.8 | 4083433 | 1.56E-06 | 2.25E-05 | 1.66E-06 | 1.66E-05 | 9.24E-06 | 2.35E-07 | 3.43E-06 | 2.59E-06 | 2.59E-06 | 1.42E-06 | 1.28E-07 | 1.85E-06 | 1.15E-06 | 1.25E-06 | 5.70E-07 |
| 1618 | 258029.4 | 4083434 | 1.52E-06 | 2.21E-05 | 1.63E-05 | 1.63E-05 | 9.06E-06 | 2.31E-07 | 3.36E-06 | 2.54E-06 | 2.54E-06 | 1.40E-06 | 1.26E-07 | 1.82E-06 | 1.13E-06 | 1.13E-06 | 5.59E-07 |
| 1619 | 258005.1 | 4083435 | 1.50E-06 | 2.16E-05 | 1.59E-05 | 1.59E-05 | 8.89E-06 | 2.27E-07 | 3.30E-06 | 2.49E-06 | 2.49E-06 | 1.37E-06 | 1.23E-07 | 1.78E-06 | 1.11E-06 | 1.11E-06 | 5.48E-07 |
| 1620 | 257980.8 | 4083436 | 1.47E-06 | 2.12E-05 | 1.56E-05 | 1.56E-05 | 8.71E-06 | 2.22E-07 | 3.23E-06 | 2.44E-06 | 2.44E-06 | 1.34E-06 | 1.21E-07 | 1.75E-06 | 1.09E-06 | 1.09E-06 | 5.37E-07 |
| 1621 | 257956.4 | 4083437 | 1.44E-06 | 2.08E-05 | 1.53E-05 | 1.53E-05 | 8.54E-06 | 2.18E-07 | 3.17E-06 | 2.39E-06 | 2.39E-06 | 1.31E-06 | 1.18E-07 | 1.71E-06 | 1.06E-06 | 1.06E-06 | 5.27E-07 |
| 1622 | 257932.1 | 4083438 | 1.41E-06 | 2.04E-05 | 1.50E-05 | 1.50E-05 | 8.38E-06 | 2.14E-07 | 3.11E-06 | 2.35E-06 | 2.35E-06 | 1.29E-06 | 1.16E-07 | 1.68E-06 | 1.04E-06 | 1.04E-06 | 5.17E-07 |
| 1623 | 257907.8 | 4083439 | 1.38E-06 | 2.00E-05 | 1.47E-05 | 1.47E-05 | 8.21E-06 | 2.10E-07 | 3.04E-06 | 2.30E-05 | 2.30E-06 | 1.26E-06 | 1.14E-07 | 1.65E-06 | 1.02E-06 | 1.02E-06 | 5.06E-07 |
| 1624 | 257883.4 | 4083440 | 1.35E-06 | 1.96E-05 | 1.44E-05 | 1.44E-05 | 8.05E-06 | 2.06E-07 | 2.98E-06 | 2.25E-06 | 2.25E-06 | 1.24E-06 | 1.12E-07 | 1.61E-06 | 1.00E-06 | 1.00E-06 | 4.97E-07 |
| 1625 | 257859.1 | 4083441 | 1.33E-06 | 1.92E-05 | 1.42E-05 | 1.42E-05 | 7.90E-06 | 2.02E-07 | 2.93E-06 | 2.21E-06 | 2.21E-06 | 1.22E-06 | 1.10E-07 | 1.59E-06 | 9.85E-07 | 9.85E-07 | 4.87E-07 |
| 1626 | 257834.8 | 4083442 | 1.31E-06 | 1.89E-05 | 1.39E-05 | 1.39E-05 | 7.76E-06 | 1.98E-07 | 2.88E-06 | 2.17E-06 | 2.17E-06 | 1.19E-06 | 1.08E-07 | 1.56E-06 | 9.67E-07 | 9.67E-07 | 4.78E-07 |
| 1627 | 257810.4 | 4083443 | 1.28E-06 | 1.86E-05 | 1.37E-05 | 1.37E-05 | 7.62E-06 | 1.95E-07 | 2.83E-06 | 2.14E-06 | 2.14E-06 | 1.17E-06 | 1.06E-07 | 1.53E-06 | 9.50E-07 | 9.50E-07 | 4.70E-07 |
| 1628 | 257786.1 | 4083444 | 1.26E-06 | 1.82E-05 | 1.34E-05 | 1.34E-05 | 7.49E-06 | 1.91E-07 | 2.78E-06 | 2.10E-06 | 2.10E-06 | 1.25E-06 | 1.04E-07 | 1.50E-06 | 9.33E-07 | 9.33E-07 | 4.62E-07 |
| 1629 | 257761.8 | 4083445 | 1.24E-06 | 1.79E-05 | 1.32E-05 | 1.32E-05 | 7.37E-06 | 1.88E-07 | 2.73E-06 | 2.06E-06 | 2.06E-06 | 1.13E-06 | 1.02E-07 | 1.48E-06 | 9.18E-07 | 9.18E-07 | 4.54E-07 |
| 1630 | 257737.4 | 4083446 | 1.22E-06 | 1.76E-05 | 1.30E-05 | 1.30E-05 | 7.25E-06 | 1.85E-07 | 2.69E-06 | 2.03E-06 | 2.03E-06 | 1.12E-06 | 1.00E-07 | 1.45E-06 | 9.03E-07 | 9.03E-07 | 4.47E-07 |
| 1631 | 257713.1 | 4083447 | 1.20E-06 | 1.74E-05 | 1.28E-05 | 1.28E-05 | 7.14E-06 | 1.82E-07 | 2.65E-06 | 2.00E-06 | 2.00E-06 | 1.10E-06 | 9.90E-08 | 1.43E-06 | 8.89E-07 | 8.89E-07 | 4.40E-07 |
| 1632 | 257688.8 | 4083448 | 1.18E-06 | 1.71E-05 | 1.26E-05 | 1.26E-05 | 7.03E-06 | 1.79E-07 | 2.61E-06 | 1.97E-06 | 1.97E-06 | 1.08E-06 | 9.75E-08 | 1.41E-06 | 8.76E-07 | 8.76E-07 | 4.33E-07 |
| 1633 | 257664.4 | 4083449 | 1.17E-06 | 1.69E-05 | 1.24E-05 | 1.24E-05 | 6.93E-06 | 1.77E-07 | 2.57E-06 | 1.94E-06 | 1.94E-06 | 1.07E-06 | 9.61E-08 | 1.39E-06 | 8.63E-07 | 8.63E-07 | 4.27E-07 |
| 1634 | 257640.1 | 4083450 | 1.25E-06 | 1.68E-05 | 1.23E-05 | 1.23E-05 | 6.83E-06 | 1.74E-07 | 2.53E-06 | 1.91E-06 | 1.91E-06 | 1.05E-06 | 9.48E-08 | 1.37E-06 | 8.51E-07 | 8.51E-07 | 4.21E-07 |
| 1635 | 257615.8 | 4083451 | 1.13E-06 | 1.64E-05 | 1.21E-05 | 1.21E-05 | 6.73E-06 | 1.72E-07 | 2.50E-06 | 1.89E-06 | 1.89E-06 | 1.04E-06 | 9.34E-08 | 1.35E-06 | 8.39E-07 | 8.39E-07 | 4.15E-07 |
| 1636 | 257591.4 | 4083452 | 1.12E-06 | 1.62E-05 | 1.19E-05 | 1.19E-05 | 6.65E-06 | 1.70E-07 | 2.47E-06 | 1.86E-06 | 1.86E-06 | 1.02E-06 | 9.22E-08 | 1.33E-06 | 8.29E-07 | 8.29E-07 | 4.10E-07 |
| 1637 | 257567.1 | 4083453 | 1.10E-06 | 1.60E-05 | 1.18E-05 | 1.18E-05 | 6.56E-06 | 1.68E-07 | 2.43E-06 | 1.84E-06 | 1.84E-06 | 1.01E-06 | 9.10E-08 | 1.32E-06 | 8.18E-07 | 8.18E-07 | 4.05E-07 |
| 1638 | 257542.8 | 4083454 | 1.09E-06 | 1.58E-05 | 1.16E-05 | 1.16E-05 | 6.48E-06 | 1.65E-07 | 2.40E-06 | 1.81E-06 | 1.81E-06 | 9.98E-07 | 8.99E-08 | 1.30E-06 | 8.07E-07 | 8.07E-07 | 4.00E-07 |
| 1639 | 257518.5 | 4083455 | 1.08E-06 | 1.56E-05 | 1.15E-05 | 1.15E-05 | 6.39E-06 | 1.63E-07 | 2.37E-06 | 1.79E-06 | 1.79E-06 | 9.84E-07 | 8.87E-08 | 1.28E-06 | 7.97E-07 | 7.97E-07 | 3.94E-07 |
| 1640 | 257494.1 | 4083456 | 1.06E-06 | 1.54E-05 | 1.13E-05 | 1.13E-05 | 6.32E-06 | 1.61E-07 | 2.34E-06 | 1.77E-06 | 1.77E-06 | 9.73E-07 | 8.77E-08 | 1.27E-06 | 7.88E-07 | 7.88E-07 | 3.90E-07 |
| 1641 | 257530.8 | 4084956 | 8.13E-05 | 1.18E-03 | 8.67E-04 | 8.67E-04 | 4.83E-04 | 1.23E-05 | 1.79E-04 | 1.35E-04 | 1.35E-04 | 7.44E-05 | 6.70E-06 | 9.69E-05 | 6.02E-05 | 6.02E-05 | 2.98E-05 |
| 1642 | 257532.4 | 4085001 | 2.15E-04 | 3.12E-03 | 2.30E-03 | 2.30E-03 | 1.28E-03 | 3.27E-06 | 4.75E-04 | 3.59E-04 | 3.59E-04 | 1.97E-04 | 1.78E-05 | 2.57E-04 | 1.60E-04 | 1.60E-04 | 7.90E-05 |
| 1643 | 257534.1 | 4085045 | 3.42E-04 | 4.95E-03 | 3.65E-03 | 3.65E-03 | 2.03E-03 | 5.20E-05 | 7.54E-04 | 5.70E-04 | 5.70E-04 | 3.13E-04 | 2.82E-05 | 4.08E-04 | 2.54E-04 | 2.54E-04 | 1.25E-04 |
| 1644 | 257534.9 | 4085067 | 3.83E-04 | 5.54E-03 | 4.08E-03 | 4.08E-03 | 2.27E-03 | 5.81E-05 | 8.43E-04 | 6

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1439 | 259264.7 | 4084015 | 1.23E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-06 | | 1.87E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 1440 | 259274.6 | 4084036 | 1.26E-05 | 1.83E-04 | 1.35E-04 | 1.35E-04 | 7.50E-06 | | 1.92E-06 | 2.78E-05 | 2.10E-05 | 2.10E-05 | 1.15E-05 | | 1.04E-06 | 1.50E-05 | 9.34E-06 | 9.34E-06 | 4.63E-06 |
| 1441 | 259284.4 | 4084058 | 1.29E-06 | 1.86E-04 | 1.37E-04 | 1.37E-04 | 7.65E-05 | | 1.95E-06 | 2.84E-05 | 2.14E-05 | 2.14E-05 | 1.18E-05 | | 1.06E-06 | 1.53E-05 | 9.53E-06 | 9.53E-06 | 4.72E-06 |
| 1442 | 259294.2 | 4084080 | 1.31E-06 | 1.89E-04 | 1.40E-04 | 1.40E-04 | 7.78E-05 | | 1.99E-06 | 2.89E-05 | 2.18E-05 | 2.18E-05 | 1.20E-05 | | 1.08E-06 | 1.56E-05 | 9.70E-06 | 9.70E-06 | 4.80E-06 |
| 1443 | 259304.1 | 4084102 | 1.33E-05 | 1.92E-04 | 1.42E-04 | 1.42E-04 | 7.90E-05 | | 2.02E-06 | 2.93E-05 | 2.21E-05 | 2.21E-06 | 1.22E-06 | | 1.10E-06 | 1.58E-06 | 9.84E-06 | 9.84E-06 | 4.87E-06 |
| 1444 | 259313.9 | 4084123 | 1.34E-06 | 1.94E-04 | 1.43E-04 | 1.43E-04 | 7.99E-05 | | 2.04E-06 | 2.96E-05 | 2.24E-05 | 2.24E-05 | 1.23E-05 | | 1.11E-06 | 1.60E-05 | 9.96E-06 | 9.96E-06 | 4.93E-06 |
| 1445 | 259323.7 | 4084145 | 1.36E-05 | 1.96E-04 | 1.45E-04 | 1.45E-04 | 8.06E-05 | | 2.06E-06 | 2.99E-05 | 2.26E-05 | 2.26E-05 | 1.24E-05 | | 1.12E-06 | 1.62E-05 | 1.00E-05 | 1.00E-05 | 4.97E-06 |
| 1446 | 259333.6 | 4084167 | 1.37E-05 | 1.97E-04 | 1.46E-04 | 1.46E-04 | 8.11E-05 | | 2.07E-06 | 3.01E-05 | 2.27E-05 | 2.27E-06 | 1.25E-06 | | 1.13E-06 | 1.63E-05 | 1.01E-05 | 1.01E-05 | 5.00E-06 |
| 1447 | 259343.4 | 4084188 | 1.37E-05 | 1.98E-04 | 1.46E-04 | 1.46E-04 | 8.14E-06 | | 2.08E-06 | 3.02E-05 | 2.28E-05 | 2.28E-05 | 1.25E-05 | | 1.13E-06 | 1.63E-05 | 1.01E-06 | 1.01E-05 | 5.02E-06 |
| 1448 | 259353.3 | 4084210 | 1.37E-05 | 1.98E-04 | 1.46E-04 | 1.46E-04 | 8.15E-05 | | 2.08E-06 | 3.02E-05 | 2.28E-05 | 2.28E-05 | 1.25E-05 | | 1.13E-06 | 1.63E-05 | 1.02E-05 | 1.02E-05 | 5.02E-06 |
| 1449 | 259363.1 | 4084232 | 1.37E-05 | 1.98E-04 | 1.46E-04 | 1.46E-04 | 8.13E-05 | | 2.08E-06 | 3.01E-05 | 2.28E-05 | 2.28E-05 | 1.25E-05 | | 1.13E-06 | 1.63E-05 | 1.01E-05 | 1.01E-05 | 5.01E-06 |
| 1450 | 259372.9 | 4084254 | 1.36E-05 | 1.97E-04 | 1.45E-04 | 1.45E-04 | 8.08E-05 | | 2.06E-06 | 3.00E-05 | 2.26E-05 | 2.26E-05 | 1.24E-05 | | 1.12E-06 | 1.62E-05 | 1.01E-05 | 1.01E-05 | 4.99E-06 |
| 1451 | 259382.8 | 4084275 | 1.35E-05 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.02E-05 | | 2.06E-06 | 2.97E-05 | 2.25E-05 | 2.25E-05 | 1.23E-05 | | 1.11E-06 | 1.61E-05 | 9.99E-06 | 9.99E-06 | 4.95E-06 |
| 1452 | 259392.6 | 4084297 | 1.34E-05 | 1.93E-04 | 1.42E-04 | 1.42E-04 | 7.94E-06 | | 2.03E-06 | 2.94E-05 | 2.22E-05 | 2.22E-06 | 1.22E-06 | | 1.10E-06 | 1.59E-05 | 9.89E-06 | 9.89E-06 | 4.89E-06 |
| 1453 | 259402.4 | 4084319 | 1.32E-05 | 1.91E-04 | 1.41E-04 | 1.41E-04 | 7.83E-06 | | 2.00E-06 | 2.90E-05 | 2.19E-05 | 2.19E-05 | 1.21E-05 | | 1.09E-06 | 1.57E-05 | 9.76E-06 | 9.76E-06 | 4.83E-06 |
| 1454 | 259412.3 | 4084341 | 1.30E-05 | 1.88E-04 | 1.38E-04 | 1.38E-04 | 7.71E-05 | | 1.97E-06 | 2.86E-06 | 2.16E-05 | 2.16E-05 | 1.19E-06 | | 1.07E-06 | 1.55E-05 | 9.61E-06 | 9.61E-06 | 4.76E-06 |
| 1455 | 259422.1 | 4084362 | 1.28E-05 | 1.84E-04 | 1.36E-04 | 1.36E-04 | 7.58E-05 | | 1.94E-06 | 2.81E-05 | 2.12E-05 | 2.12E-05 | 1.17E-05 | | 1.05E-06 | 1.52E-05 | 9.45E-06 | 9.45E-06 | 4.68E-06 |
| 1456 | 259431.9 | 4084384 | 1.25E-05 | 1.81E-04 | 1.33E-04 | 1.33E-04 | 7.44E-05 | | 1.90E-06 | 2.76E-05 | 2.08E-05 | 2.08E-05 | 1.15E-05 | | 1.03E-06 | 1.49E-05 | 9.27E-06 | 9.27E-06 | 4.59E-06 |
| 1457 | 259441.8 | 4084406 | 1.23E-05 | 1.78E-04 | 1.31E-04 | 1.31E-04 | 7.32E-05 | | 1.87E-06 | 2.71E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | | 1.01E-06 | 1.47E-05 | 9.12E-06 | 9.12E-06 | 4.51E-06 |
| 1458 | 259451.6 | 4084428 | 1.21E-06 | 1.74E-04 | 1.28E-04 | 1.28E-04 | 7.16E-05 | | 1.83E-06 | 2.66E-05 | 2.01E-06 | 2.01E-06 | 1.10E-05 | | 9.94E-07 | 1.44E-05 | 8.93E-06 | 8.93E-06 | 4.42E-06 |
| 1459 | 259461.4 | 4084449 | 1.18E-06 | 1.71E-04 | 1.26E-04 | 1.26E-04 | 7.01E-05 | | 1.79E-06 | 2.60E-05 | 1.96E-06 | 1.96E-05 | 1.08E-05 | | 9.72E-07 | 1.41E-05 | 8.73E-06 | 8.73E-06 | 4.32E-06 |
| 1460 | 259471.3 | 4084471 | 1.15E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.85E-05 | | 1.75E-06 | 2.54E-05 | 1.92E-06 | 1.92E-05 | 1.05E-05 | | 9.50E-07 | 1.37E-05 | 8.54E-06 | 8.54E-06 | 4.23E-06 |
| 1461 | 259481.1 | 4084493 | 1.13E-06 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.69E-05 | | 1.71E-06 | 2.48E-05 | 1.87E-06 | 1.87E-06 | 1.03E-05 | | 9.28E-07 | 1.34E-05 | 8.34E-06 | 8.34E-06 | 4.13E-06 |
| 1462 | 259490.9 | 4084515 | 1.10E-05 | 1.59E-04 | 1.17E-04 | 1.17E-04 | 6.53E-05 | | 1.67E-06 | 2.42E-05 | 1.83E-06 | 1.83E-05 | 1.01E-06 | | 9.06E-07 | 1.31E-05 | 8.14E-06 | 8.14E-06 | 4.03E-06 |
| 1463 | 259500.8 | 4084536 | 1.07E-06 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 6.36E-05 | | 1.62E-06 | 2.36E-05 | 1.78E-06 | 1.78E-06 | 9.80E-06 | | 8.83E-07 | 1.28E-05 | 7.93E-06 | 7.93E-06 | 3.92E-06 |
| 1464 | 259510.6 | 4084558 | 1.04E-05 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 6.19E-05 | | 1.58E-06 | 2.29E-05 | 1.73E-06 | 1.73E-05 | 9.53E-06 | | 8.58E-07 | 1.24E-05 | 7.71E-06 | 7.71E-06 | 3.82E-06 |
| 1465 | 259520.4 | 4084580 | 1.01E-05 | 1.46E-04 | 1.08E-04 | 1.08E-04 | 6.00E-05 | | 1.53E-06 | 2.23E-05 | 1.68E-06 | 1.68E-05 | 9.24E-06 | | 8.33E-07 | 1.20E-05 | 7.48E-06 | 7.48E-06 | 3.70E-06 |
| 1466 | 259530.3 | 4084602 | 9.77E-06 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.81E-05 | | 1.48E-06 | 2.15E-05 | 1.63E-06 | 1.63E-05 | 8.94E-06 | | 8.06E-07 | 1.17E-05 | 7.24E-06 | 7.24E-06 | 3.58E-06 |
| 1467 | 259540.1 | 4084623 | 9.43E-06 | 1.36E-04 | 1.01E-04 | 1.01E-04 | 5.61E-05 | | 1.43E-06 | 2.08E-06 | 1.57E-06 | 1.57E-05 | 8.63E-06 | | 7.77E-07 | 1.12E-05 | 6.99E-06 | 6.99E-06 | 3.46E-06 |
| 1468 | 259549.9 | 4084645 | 9.08E-06 | 1.31E-04 | 9.68E-05 | 9.68E-05 | 5.40E-05 | | 1.38E-06 | 2.00E-06 | 1.51E-06 | 1.51E-05 | 8.31E-06 | | 7.49E-07 | 1.08E-05 | 6.73E-06 | 6.73E-06 | 3.33E-06 |
| 1469 | 259559.8 | 4084667 | 8.73E-06 | 1.26E-04 | 9.31E-05 | 9.31E-05 | 5.19E-05 | | 1.33E-06 | 1.92E-06 | 1.45E-06 | 1.45E-06 | 7.99E-06 | | 7.20E-07 | 1.04E-05 | 6.47E-06 | 6.47E-06 | 3.20E-06 |
| 1470 | 259569.6 | 4084688 | 8.40E-06 | 1.21E-04 | 8.95E-05 | 8.95E-05 | 4.99E-05 | | 1.27E-06 | 1.85E-05 | 1.40E-05 | 1.40E-05 | 7.68E-06 | | 6.92E-07 | 1.00E-05 | 6.22E-06 | 6.22E-06 | 3.08E-06 |
| 1471 | 259579.5 | 4084710 | 8.08E-06 | 1.17E-04 | 8.62E-06 | 8.62E-06 | 4.80E-05 | | 1.23E-06 | 1.78E-05 | 1.35E-05 | 1.35E-05 | 7.40E-06 | | 6.66E-07 | 9.64E-06 | 5.98E-06 | 5.98E-06 | 2.96E-06 |
| 1472 | 259589.3 | 4084732 | 7.79E-06 | 1.13E-04 | 8.31E-06 | 8.31E-06 | 4.63E-05 | | 1.18E-06 | 1.72E-05 | 1.30E-06 | 1.30E-06 | 7.13E-06 | | 6.42E-07 | 9.29E-06 | 5.77E-06 | 5.77E-06 | 2.86E-06 |
| 1473 | 259599.1 | 4084754 | 7.52E-06 | 1.09E-04 | 8.02E-05 | 8.02E-06 | 4.47E-06 | | 1.14E-06 | 1.66E-05 | 1.25E-06 | 1.25E-06 | 6.89E-06 | | 6.20E-07 | 8.97E-06 | 5.57E-06 | 5.57E-06 | 2.76E-06 |
| 1474 | 259609 | 4084775 | 7.28E-06 | 1.05E-04 | 7.76E-05 | 7.76E-05 | 4.33E-05 | | 1.10E-06 | 1.60E-05 | 1.21E-05 | 1.21E-05 | 6.66E-06 | | 6.00E-07 | 8.68E-06 | 5.39E-06 | 5.39E-06 | 2.67E-06 |
| 1475 | 259618.8 | 4084797 | 7.06E-06 | 1.02E-04 | 7.51E-05 | 7.51E-05 | 4.19E-05 | | 1.07E-06 | 1.55E-05 | 1.17E-06 | 1.17E-06 | 6.45E-06 | | 5.81E-07 | 8.40E-06 | 5.22E-06 | 5.22E-06 | 2.58E-06 |
| 1476 | 259628.6 | 4084819 | 6.83E-06 | 9.87E-06 | 7.28E-05 | 7.28E-05 | 4.06E-05 | | 1.04E-06 | 1.50E-06 | 1.14E-05 | 1.14E-06 | 6.25E-06 | | 5.63E-07 | 8.14E-06 | 5.05E-06 | 5.05E-06 | 2.50E-06 |
| 1477 | 259638.5 | 4084841 | 6.60E-06 | 9.55E-06 | 7.04E-05 | 7.04E-05 | 3.93E-05 | | 1.00E-06 | 1.46E-05 | 1.10E-05 | 1.10E-05 | 6.04E-06 | | 5.44E-07 | 7.87E-06 | 4.89E-06 | 4.89E-06 | 2.42E-06 |
| 1478 | 259648.3 | 4084862 | 6.38E-06 | 9.23E-06 | 6.80E-05 | 6.80E-06 | 3.79E-05 | | 9.69E-07 | 1.41E-05 | 1.06E-05 | 1.06E-05 | 5.84E-06 | | 5.26E-07 | 7.61E-06 | 4.73E-06 | 4.73E-06 | 2.34E-06 |
| 1479 | 258305.3 | 4083623 | 2.52E-06 | 3.65E-05 | 2.69E-05 | 2.69E-05 | 1.50E-05 | | 3.83E-07 | 5.56E-06 | 4.20E-06 | 4.20E-06 | 2.31E-06 | | 2.08E-07 | 3.01E-06 | 1.87E-06 | 1.87E-06 | 9.25E-07 |
| 1480 | 258281 | 4083624 | 2.46E-06 | 3.56E-06 | 2.63E-05 | 2.63E-05 | 1.46E-05 | | 3.74E-07 | 5.43E-06 | 4.10E-06 | 4.10E-06 | 2.25E-06 | | 2.03E-07 | 2.94E-06 | 1.82E-06 | 1.82E-06 | 9.03E-07 |
| 1481 | 258256.6 | 4083625 | 2.41E-06 | 3.48E-05 | 2.56E-05 | 2.56E-05 | 1.43E-05 | | 3.65E-07 | 5.30E-06 | 4.00E-06 | 4.00E-06 | 2.20E-06 | | 1.98E-07 | 2.87E-06 | 1.78E-06 | 1.78E-06 | 8.82E-07 |
| 1482 | 258232.3 | 4083626 | 2.35E-06 | 3.40E-05 | 2.51E-05 | 2.51E-05 | 1.40E-05 | | 3.57E-07 | 5.18E-06 | 3.91E-06 | 3.91E-06 | 2.15E-06 | | 1.94E-07 | 2.80E-06 | 1.74E-06 | 1.74E-06 | 8.62E-07 |
| 1483 | 258208 | 4083627 | 2.30E-06 | 3.32E-05 | 2.45E-05 | 2.45E-05 | 1.36E-06 | | 3.48E-07 | 5.06E-06 | 3.82E-06 | 3.82E-06 | 2.10E-06 | | 1.89E-07 | 2.74E-06 | 1.70E-06 | 1.70E-06 | 8.41E-07 |
| 1484 | 258183.6 | 4083628 | 2.24E-06 | 3.24E-05 | 2.39E-05 | 2.39E-05 | 1.33E-06 | | 3.40E-07 | 4.94E-06 | 3.73E-06 | 3.73E-06 | 2.05E-06 | | 1.85E-07 | 2.67E-06 | 1.66E-06 | 1.66E-06 | 8.22E-07 |
| 1485 | 258159.3 | 4083629 | 2.19E-06 | 3.17E-05 | 2.33E-05 | 2.33E-05 | 1.30E-05 | | 3.32E-07 | 4.82E-06 | 3.64E-06 | 3.64E-06 | 2.00E-06 | | 1.80E-07 | 2.61E-06 | 1.62E-06 | 1.62E-06 | 8.02E-07 |
| 1486 | 258135 | 4083630 | 2.14E-06 | 3.09E-06 | 2.28E-05 | 2.28E-05 | 1.27E-05 | | 3.24E-07 | 4.70E-06 | 3.55E-06 | 3.55E-06 | 1.95E-06 | | 1.76E-07 | 2.55E-06 | 1.58E-06 | 1.58E-06 | 7.83E-07 |
| 1487 | 258110.6 | 4083631 | 2.08E-06 | 3.01E-05 | 2.22E-05 | 2.22E-05 | 1.24E-05 | | 3.16E-07 | 4.59E-06 | 3.47E-06 | 3.47E-06 | 1.91E-06 | | 1.72E-07 | 2.48E-06 | 1.54E-06 | 1.54E-06 | 7.63E-07 |
| 1488 | 258086.3 | 4083632 | 2.03E-06 | 2.94E-06 | 2.16E-05 | 2.16E-05 | 1.21E-05 | | 3.08E-07 | 4.47E-06 | 3.38E-06 | 3.38E-06 | 1.86E-06 | | 1.67E-07 | 2.42E-06 | 1.50E-06 | 1.50E-06 | 7.44E-07 |
| 1489 | 258062 | 4083633 | 1.98E-06 | 2.87E-05 | 2.11E-05 | 2.11E-05 | 1.18E-05 | | 3.01E-07 | 4.37E-06 | 3.30E-06 | 3.30E-06 | 1.81E-06 | | 1.63E-07 | 2.36E-06 | 1.47E-06 | 1.47E-06 | 7.26E-07 |
| 1490 | 258037.6 | 4083634 | 1.93E-06 | 2.79E-06 | 2.06E-05 | 2.06E-05 | 1.15E-05 | | 2.93E-07 | 4.26E-06 | 3.22E-06 | 3.22E-06 | 1.77E-06 | | 1.59E-07 | 2.30E-06 | 1.43E-06 | 1.43E-06 | 7.08E-07 |
| 1491 | 258013.3 | 4083635 | 1.88E-06 | 2.72E-06 | 2.01E-05 | 2.01E-05 | 1.12E-05 | | 2.86E-07 | 4.15E-06 | 3.13E-06 | 3.13E-06 | 1.72E-06 | | 1.55E-07 | 2.25E-06 | 1.39E-06 | 1.39E-06 | 6.90E-07 |
| 1492 | 257989 | 4083636 | 1.84E-06 | 2.66E-06 | 1.96E-05 | 1.96E-05 | 1.09E-05 | | 2.79E-07 | 4.05E-06 | 3.06E-06 | 3.06E-06 | 1.68E-06 | | 1.52E-07 | 2.19E-06 | 1.36E-06 | 1.36E-06 | 6.74E-07 |
| 1493 | 257964.6 | 4083637 | 1.79E-06 | 2.59E-05 | 1.91E-05 | 1.91E-05 | 1.07E-06 | | 2.72E-07 | 3.95E-06 | 2.98E-06 | 2.98E-06 | 1.64E-06 | | 1.48E-07 | 2.14E-06 | 1.33E-06 | 1.33E-06 | 6.57E-07 |
| 1494 | 257940.3 | 4083638 | 1.75E-06 | 2.53E-05 | 1.87E-06 | 1.87E-05 | 1.04E-05 | | 2.66E-07 | 3.86E-06 | 2.92E-06 | 2.92E-06 | 1.60E-06 | | 1.44E-07 | 2.09E-06 | 1.30E-06 | 1.30E-06 | 6.42E-07 |
| 1495 | 257916 | 4083639 | 1.71E-06 | 2.47E-05 | 1.82E-05 | 1.82E-05 | 1.02E-05 | | 2.60E-07 | 3.77E-06 | 2.85E-06 | 2.85E-06 | 1.57E-06 | | 1.41E-07 | 2.04E-06 | 1.27E-06 | 1.27E-06 | 6.27E-07 |
| 1496 | 257891.6 | 4083640 | 1.67E-06 | 2.42E-05 | 1.78E-05 | 1.78E-05 | 9.94E-06 | | 2.54E-07 | 3.68E-06 | 2.78E-06 | 2.78E-06 | 1.53E-06 | | 1.38E-07 | 1.99E-06 | 1.24E-06 | 1.24E-06 | 6.13E-07 |
| 1497 | 257867.3 | 4083641 | 1.84E-06 | 2.37E-05 | 1.75E-05 | 1.75E-05 | 9.73E-06 | | 2.48E-07 | 3.61E-06 | 2.73E-06 | 2.73E-06 | 1.50E-06 | | 1.35E-07 | 1.95E-06 | 1.21E-06 | 1.21E-06 | 6.00E-07 |
| 1498 | 257843 | 4083642 | 1.60E-06 | 2.32E-05 | 1.71E-06 | 1.71E-06 | 9.52E-06 | | 2.43E-07 | 3.53E-06 | 2.67E-06 | 2.67E-06 | 1.47E-06 | | 1.32E-07 | 1.91E-06 | 1.19E-06 | 1.19E-06 | 5.87E-07 |
| 1499 | 257818.6 | 4083643 | 1.57E-06 | 2.27E-05 | 1.68E-06 | 1.68E-06 | 9.34E-06 | | 2.39E-07 | 3.46E-06 | 2.62E-06 | 2.62E-06 | 1.44E-06 | | 1.30E-07 | 1.87E-06 | 1.16E-06 | 1.16E-06 | 5.76E-07 |
| 1500 | 257794.3 | 4083644 | 1.54E-06 | 2.23E-05 | 1.64E-05 | 1.64E-05 | 9.17E-06 | | 2.34E-07 | 3.40E-06 | 2.57E-06 | 2.57E-06 | 1.41E-06 | | 1.27E-07 | 1.84E-06 | 1.14E-06 | 1.14E-06 | 5.66E-07 |
| 1501 | 257770 | 4083645 | 1.52E-06 | 2.19E-05 | 1.62E-05 | 1.62E-05 | 9.01E-06 | | 2.30E-07 | 3.34E-06 | 2.52E-06 | 2.52E-06 | 1.39E-06 | | 1.25E-07 | 1.81E-06 | 1.12E-06 | 1.12E-06 | 5.56E-07 |
| 1502 | 257745.7 | 4083646 | 1.49E-06 | 2.15E-05 | 1.59E-05 | 1.59E-05 | 8.85E-06 | | 2.26E-07 | 3.28E-06 | 2.48E-06 | 2.48E-06 | 1.36E-06 | | 1.23E-07 | 1.78E-06 | 1.10E-06 | 1.10E-06 | 5.46E-07 |
| 1503 | 257721.3 | 4083647 | 1.47E-06 | 2.12E-05 | 1.56E-05 | 1.56E-05 | 8.72E-06 | | 2.23E-07 | 3.23E-06 | 2.44E-06 | 2.44E-06 | 1.34E-06 | | 1.21E-07 | 1.75E-06 | 1.09E-06 | 1.09E-06 | 5.38E-07 |
| 1504 | 257697 | 4083648 | 1.45E-06 | 2.09E-05 | 1.54E-06 | 1.54E-06 | 8.60E-06 | | 2.20E-07 | 3.19E-06 | 2.41E-06 | 2.41E-06 | 1.32E-06 | | 1.19E-07 | 1.72E-06 | 1.07E-06 | 1.07E-06 | 5.30E-07 |
| 1505 | 257672.7 | 4083649 | 1.43E-06 | 2.06E-05 | 1.52E-06 | 1.52E-06 | 8.48E-06 | | 2.16E-07 | 3.14E-06 | 2.37E-06 | 2.37E-06 | 1.31E-06 | | 1.18E-07 | 1.70E-06 | 1.06E-06 | 1.06E-06 | 5.23E-07 |
| 1506 | 257648.3 | 4083650 | 1.41E-06 | 2.04E-05 | 1.50E-05 | 1.50E-05 | 8.37E-06 | | 2.14E-07 | 3.10E-06 | 2.34E-06 | 2.34E-06 | 1.29E-06 | | 1.16E-07 | 1.68E-06 | 1.04E-06 | 1.04E-06 | 5.16E-07 |
| 1507 | 257624 | 4083651 | 1.39E-06 | 2.01E-05 | 1.48E-05 | 1.48E-05 | 8.26E-06 | | 2.11E-07 | 3.06E-06 | 2.31E-06 | 2.31E-06 | 1.27E-06 | | 1.15E-07 | 1.66E-06 | 1.03E-06 | 1.03E-06 | 5.09E-07 |
| 1508 | 257599.7 | 4083652 | 1.37E-06 | 1.99E-05 | 1.48E-05 | 1.46E-05 | 8.16E-06 | | 2.08E-07 | 3.03E-06 | 2.29E-06 | 2.29E-06 | 1.26E-06 | | 1.13E-07 | 1.64E-06 | 1.02E-06 | 1.02E-06 | 5.03E-07 |
| 1509 | 257575.3 | 4083653 | 1.36E-06 | 1.96E-05 | 1.45E-05 | 1.45E-05 | 8.06E-06 | | 2.06E-07 | 2.99E-06 | 2.26E-06 | 2.26E-06 | 1.24E-06 | | 1.12E-07 | 1.62E-06 | 1.00E-06 | 1.00E-06 | 4.97E-07 |
| 1510 | 257551 | 4083654 | 1.34E-06 | 1.94E-06 | 1.43E-05 | 1.43E-05 | 7.96E-06 | | 2.03E-07 | 2.95E-06 | 2.23E-06 | 2.23E-06 | 1.23E-06 | | 1.10E-07 | 1.60E-06 | 9.92E-07 | 9.92E-07 | 4.91E-07 |
| 1511 | 257526.7 | 4083655 | 1.33E-06 | 1.92E-06 | 1.41E-05 | 1.41E-05 | 7.88E-06 | | 2.01E-07 | 2.92E-06 | 2.21E-06 | 2.21E-06 | 1.21E-06 | | 1.09E-07 | 1.58E-06 | 9.82E-07 | 9.82E-07 | 4.86E-07 |
| 1512 | 257502.3 | 4083656 | 1.31E-06 | 1.89E-06 | 1.40E-05 | 1.40E-05 | 7.78E-06 | | 1.99E-07 | 2.89E-06 | 2.18E-06 | 2.18E-06 | 1.20E-06 | | 1.08E-07 | 1.56E-06 | 9.70E-07 | 9.70E-07 | 4.80E-07 |
| 1513 | 258319.7 | 4083432 | 1.93E-06 | 2.79E-06 | 2.06E-05 | 2.06E-06 | 1.15E-06 | | 2.93E-07 | 4.26E-06 | 3.22E-06 | 3.22E-06 | 1.77E-06 | | 1.59E-07 | 2.30E-06 | 1.43E-06 | 1.43E-06 | 7.08E-07 |
| 1514 | 258342.3 | 4083440 | 2.00E-06 | 2.89E-06 | 2.13E-05 | 2.13E-06 | 1.19E-05 | | 3.03E-07 | 4.40E-06 | 3.32E-06 | 3.32E-06 | 1.83E-06 | | 1.65E-07 | 2.38E-06 | 1.48E-06 | 1.48E-06 | 7.32E-07 |
| 1515 | 258364.8 | 4083448 | 2.06E-06 | 2.98E-06 | 2.20E-05 | 2.20E-05 | 1.23E-05 | | 3.13E-07 | 4.54E-06 | 3.43E-06 | 3.43E-06 | 1.89E-06 | | 1.70E-07 | 2.46E-06 | 1.53E-06 | 1.53E-06 | 7.56E-07 |
| 1516 | 258387.4 | 4083457 | 2.13E-06 | 3.08E-05 | 2.27E-05 | 2.27E-05 | 1.27E-06 | | 3.23E-07 | 4.70E-06 | 3.55E-06 | 3.55E-06 | 1.95E-06 | | 1.76E-07 | 2.54E-06 | 1.58E-06 | 1.58E-06 | 7.81E-07 |
| 1517 | 258410 | 4083465 | 2.20E-06 | 3.19E-05 | 2.35E-05 | 2.35E-05 | 1.31E-05 | | 3.35E-07 | 4.86E-06 | 3.67E-06 | 3.67E-06 | 2.02E-06 | | 1.82E-07 | 2.63E-06 | 1.63E-06 | 1.63E-06 | 8.08E-07 |
| 2518 | 258432.6 | 4083474 | 2.28E-06 | 3.30E-05 | 2.44E-05 | 2.44E-05 | 1.36E-05 | | 3.47E-07 | 5.03E-06 | 3.80E-06 | 3.80E-06 | 2.09E-06 | | 1.88E-07 | 2.72E-06 | 1.69E-06 | 1.69E-06 | 8.38E-07 |
| 1519 | 258455.2 | 4083482 | 2.37E-06 | 3.42E-05 | 2.52E-06 | 2.52E-06 | 1.41E-06 | | 3.59E-07 | 5.21E-06 | 3.94E-06 | 3.94E-06 | 2.17E-06 | | 1.95E-07 | 2.82E-06 | 1.75E-06 | 1.75E-06 | 8.68E-07 |
| 1520 | 258477.8 | 4083490 | 2.45E-06 | 3.55E-05 | 2.62E-05 | 2.62E-05 | 1.46E-06 | | 3.73E-07 | 5.41E-06 | 4.09E-06 | 4.09E-06 | 2.25E-06 | | 2.02E-07 | 2.93E-06 | 1.82E-06 | 1.82E-06 | 9.00E-07 |
| 1521 | 258500.4 | 4083499 | 2.55E-06 | 3.68E-06 | 2.72E-05 | 2.72E-05 | 1.51E-05 | | 3.87E-07 | 5.61E-06 | 4.24E-06 | 4.24E-06 | 2.33E-06 | | 2.10E-07 | 3.04E-06 | 1.89E-06 | 1.89E-06 | 9.34E-07 |
| 1522 | 258523 | 4083507 | 2.65E-06 | 3.83E-05 | 2.82E-05 | 2.82E-05 | 1.57E-05 | | 4.02E-07 | 5.83E-06 | 4.41E-06 | 4.41E-06 | 2.42E-06 | | 2.18E-07 | 3.16E-06 | 1.96E-06 | 1.96E-06 | 9.70E-07 |
| 1523 | 258545.6 | 4083515 | 2.75E-06 | 3.98E-05 | 2.94E-05 | 2.94E-05 | 1.64E-05 | | 4.18E-07 | 6.07E-06 | 4.58E-06 | 4.58E-06 | 2.52E-06 | | 2.27E-07 | 3.28E-06 | 2.04E-06 | 2.04E-06 | 1.01E-06 |
| 1524 | 258568.2 | 4083524 | 2.87E-06 | 4.15E-05 | 3.06E-05 | 3.06E-05 | 1.70E-06 | | 4.35E-07 | 6.32E-06 | 4.77E-06 | 4.77E-06 | 2.62E-06 | | 2.36E-07 | 3.42E-06 | 2.12E-06 | 2.12E-06 | 1.05E-06 |
| 1525 | 258590.8 | 4083532 | 2.99E-06 | 4.32E-05 | 3.18E-05 | 3.18E-05 | 1.78E-06 | | 4.53E-07 | 6.58E-06 | 4.97E-06 | 4.97E-06 | 2.73E-06 | | 2.46E-07 | 3.56E-06 | 2.21E-06 | 2.21E-06 | 1.10E-06 |
| 1526 | 258613.3 | 4083540 | 3.12E-06 | 4.51E-05 | 3.32E-05 | 3.32E-05 | 1.85E-06 | | 4.73E-07 | 6.87E-06 | 5.19E-06 | 5.19E-06 | 2.85E-06 | | 2.57E-07 | 3.72E-06 | 2.31E-06 | 2.31E-06 | 1.14E-06 |
| 1527 | 258635.9 | 4083549 | 3.25E-06 | 4.71E-05 | 3.47E-05 | 3.47E-06 | 1.93E-06 | | 4.94E-07 | 7.17E-06 | 5.42E-06 | 5.42E-06 | 2.98E-06 | | 2.68E-07 | 3.88E-06 | 2.41E-06 | 2.41E-06 | 1.19E-06 |
| 1528 | 258658.5 | 4083557 | 3.40E-06 | 4.92E-05 | 3.63E-05 | 3.63E-05 | 2.02E-05 | | 5.16E-07 | 7.49E-06 | 5.66E-06 | 5.66E-06 | 3.11E-06 | | 2.80E-07 | 4.06E-06 | 2.52E-06 | 2.52E-06 | 1.25E-06 |
| 1529 | 258681.1 | 4083566 | 3.56E-06 | 5.15E-05 | 3.79E-05 | 3.79E-05 | 2.11E-05 | | 5.40E-07 | 7.84E-06 | 5.92E-06 | 5.92E-06 | 3.26E-06 | | 2.93E-07 | 4.24E-06 | 2.63E-06 | 2.63E-06 | 1.30E-06 |
| 1530 | 258703.7 | 4083574 | 3.72E-06 | 5.38E-05 | 3.96E-05 | 3.96E-05 | 2.21E-05 | | 5.64E-07 | 8.19E-06 | 6.19E-06 | 6.19E-06 | 3.40E-06 | | 3.07E-07 | 4.43E-06 | 2.75E-06 | 2.75E-06 | 1.36E-06 |
| 1531 | 258726.3 | 4083582 | 3.89E-06 | 5.63E-05 | 4.15E-05 | 4.15E-05 | 2.31E-06 | | 5.91E-07 | 8.57E-06 | 6.48E-06 | 6.48E-06 | 3.56E-06 | | 3.21E-07 | 4.64E-06 | 2.88E-06 | 2.88E-06 | 1.43E-06 |
| 1532 | 258748.9 | 4083591 | 4.07E-06 | 5.89E-05 | 4.34E-05 | 4.34E-05 | 2.42E-06 | | 6.18E-07 | 8.97E-06 | 6.77E-06 | 6.77E-06 | 3.72E-06 | | 3.35E-07 | 4.85E-06 | 3.01E-06 | 3.01E-06 | 1.49E-06 |
| 1533 | 258771.5 | 4083599 | 4.25E-06 | 6.15E-05 | 4.53E-06 | 4.53E-05 | 2.53E-05 | | 6.46E-07 | 9.37E-06 | 7.08E-06 | 7.08E-06 | 3.89E-06 | | 3.51E-07 | 5.07E-06 | 3.15E-06 | 3.15E-06 | 1.56E-06 |
| 1534 | 258794.1 | 4083607 | 4.45E-06 | 6.43E-05 | 4.74E-06 | 4.74E-05 | 2.64E-06 | | 6.75E-07 | 9.80E-06 | 7.40E-06 | 7.40E-06 | 4.07E-06 | | 3.67E-07 | 5.30E-06 | 3.29E-06 | 3.29E-06 | 1.63E-06 |
| 1535 | 258816.7 | 4083616 | 4.65E-06 | 6.72E-05 | 4.95E-05 | 4.95E-05 | 2.76E-06 | | 7.06E-07 | 1.02E-05 | 7.73E-06 | 7.73E-06 | 4.25E-06 | | 3.83E-07 | 5.54E-06 | 3.44E-06 | 3.44E-06 | 1.70E-06 |
| 1536 | 258839.3 | 4083624 | 4.85E-06 | 7.02E-05 | 5.17E-05 | 5.17E-06 | 2.88E-05 | | 7.36E-07 | 1.07E-05 | 8.07E-06 | 8.07E-06 | 4.44E-06 | | 4.00E-07 | 5.78E-06 | 3.59E-06 | 3.59E-06 | 1.78E-06 |
| 1537 | 258861.8 | 4083632 | 5.06E-06 | 7.32E-05 | 5.39E-05 | 5.39E-06 | 3.01E-06 | | 7.68E-07 | 1.11E-06 | 8.42E-06 | 8.42E-06 | 4.63E-06 | | 4.17E-07 | 6.03E-06 | 3.75E-06 | 3.75E-06 | 1.85E-06 |
| 1538 | 258884.4 | 4083641 | 5.27E-06 | 7.63E-05 | 5.62E-05 | 5.62E-06 | 3.13E-06 | | 8.00E-07 | 1.16E-05 | 8.78E-06 | 8.78E-06 | 4.83E-06 | | 4.35E-07 | 6.29E-06 | 3.91E-06 | 3.91E-06 | 1.93E-06 |
| 1539 | 258907 | 4083649 | 5.49E-06 | 7.95E-05 | 5.86E-06 | 5.86E-05 | 3.27E-06 | | 8.34E-07 | 1.21E-05 | 9.14E-06 | 9.14E-06 | 5.03E-06 | | 4.53E-07 | 6.55E-06 | 4.07E-06 | 4.07E-06 | 2.01E-06 |
| 1540 | 258929.6 | 4083658 | 5.72E-06 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1336 | 259188.6 | 4084294 | 1.73E-05 | 2.51E-04 | 1.85E-04 | 1.85E-04 | 1.03E-04 | 2.63E-06 | 3.82E-05 | 2.89E-05 | 2.89E-05 | 1.59E-05 | 1.43E-05 | 2.07E-05 | 1.28E-05 | 1.28E-05 | 6.36E-06 |
| 1337 | 259198.6 | 4084316 | 1.74E-05 | 2.51E-04 | 1.85E-04 | 1.85E-04 | 1.03E-04 | 2.64E-06 | 3.83E-05 | 2.89E-05 | 2.89E-05 | 1.59E-05 | 1.43E-06 | 2.07E-05 | 1.29E-05 | 1.29E-05 | 6.36E-06 |
| 1338 | 259208.6 | 4084338 | 1.73E-05 | 2.50E-04 | 1.85E-04 | 1.85E-04 | 1.03E-04 | 2.63E-06 | 3.82E-05 | 2.88E-05 | 2.88E-05 | 1.58E-05 | 1.43E-06 | 2.06E-05 | 1.28E-05 | 1.28E-05 | 6.35E-06 |
| 1339 | 259218.5 | 4084360 | 1.72E-05 | 2.49E-04 | 1.84E-04 | 1.84E-04 | 1.02E-04 | 2.61E-06 | 3.79E-05 | 2.87E-05 | 2.87E-05 | 1.58E-05 | 1.42E-06 | 2.05E-05 | 1.28E-05 | 1.28E-05 | 6.31E-06 |
| 1340 | 259228.5 | 4084382 | 1.71E-05 | 2.47E-04 | 1.82E-04 | 1.82E-04 | 1.01E-04 | 2.59E-06 | 3.76E-05 | 2.84E-05 | 2.84E-05 | 1.56E-05 | 1.41E-05 | 2.03E-05 | 1.26E-05 | 1.26E-05 | 6.25E-06 |
| 1341 | 259238.5 | 4084404 | 1.68E-05 | 2.44E-04 | 1.80E-04 | 1.80E-04 | 1.00E-04 | 2.56E-06 | 3.71E-05 | 2.80E-05 | 2.80E-05 | 1.54E-05 | 1.39E-06 | 2.01E-05 | 1.25E-05 | 1.25E-05 | 6.17E-06 |
| 1342 | 259248.5 | 4084426 | 1.66E-05 | 2.41E-04 | 1.77E-04 | 1.77E-04 | 9.89E-05 | 2.53E-06 | 3.67E-05 | 2.77E-06 | 2.77E-06 | 1.52E-05 | 1.37E-06 | 1.98E-05 | 1.23E-06 | 1.23E-05 | 6.10E-06 |
| 1343 | 259258.5 | 4084449 | 1.63E-05 | 2.36E-04 | 1.74E-04 | 1.74E-04 | 9.71E-05 | 2.48E-06 | 3.60E-05 | 2.72E-05 | 2.72E-05 | 1.50E-05 | 1.35E-05 | 1.95E-05 | 1.21E-05 | 1.21E-05 | 5.99E-06 |
| 1344 | 259268.5 | 4084471 | 1.60E-05 | 2.31E-04 | 1.71E-04 | 1.71E-04 | 9.51E-05 | 2.43E-06 | 3.53E-05 | 2.66E-05 | 2.66E-05 | 1.46E-05 | 1.32E-06 | 1.91E-05 | 1.19E-05 | 1.19E-05 | 5.87E-06 |
| 1345 | 259278.5 | 4084493 | 1.56E-05 | 2.26E-04 | 1.67E-04 | 1.67E-04 | 9.29E-05 | 2.37E-06 | 3.44E-05 | 2.60E-05 | 2.60E-05 | 1.43E-05 | 1.29E-05 | 1.86E-05 | 1.16E-05 | 1.16E-05 | 5.73E-06 |
| 1346 | 259288.5 | 4084515 | 1.52E-05 | 2.20E-04 | 1.63E-04 | 1.63E-04 | 9.06E-05 | 2.31E-06 | 3.36E-05 | 2.54E-05 | 2.54E-05 | 1.39E-05 | 1.26E-05 | 1.82E-05 | 1.13E-05 | 1.13E-05 | 5.59E-06 |
| 1347 | 259298.4 | 4084537 | 1.48E-05 | 2.15E-04 | 1.58E-04 | 1.58E-04 | 8.82E-05 | 2.25E-06 | 3.27E-05 | 2.47E-05 | 2.47E-05 | 1.36E-05 | 1.22E-05 | 1.77E-05 | 1.10E-05 | 1.10E-05 | 5.44E-06 |
| 1348 | 259308.4 | 4084559 | 1.44E-05 | 2.08E-04 | 1.54E-04 | 1.54E-04 | 8.57E-05 | 2.19E-06 | 3.18E-05 | 2.40E-05 | 2.40E-05 | 1.32E-05 | 1.19E-06 | 1.72E-05 | 1.07E-05 | 1.07E-06 | 5.28E-06 |
| 1349 | 259318.4 | 4084581 | 1.40E-05 | 2.02E-04 | 1.49E-04 | 1.49E-04 | 8.30E-05 | 2.12E-06 | 3.08E-05 | 2.33E-05 | 2.33E-05 | 1.28E-05 | 1.15E-06 | 1.67E-05 | 1.03E-05 | 1.03E-05 | 5.12E-06 |
| 1350 | 259328.4 | 4084603 | 1.35E-05 | 1.96E-04 | 1.44E-04 | 1.44E-04 | 8.03E-05 | 2.05E-06 | 2.98E-06 | 2.25E-05 | 2.25E-05 | 1.24E-05 | 1.11E-06 | 1.61E-05 | 1.00E-05 | 1.00E-06 | 4.96E-06 |
| 1351 | 259338.4 | 4084625 | 1.30E-05 | 1.89E-04 | 1.39E-04 | 1.39E-04 | 7.75E-05 | 1.98E-06 | 2.87E-05 | 2.17E-05 | 2.17E-05 | 1.19E-05 | 1.08E-06 | 1.56E-05 | 9.66E-06 | 9.66E-06 | 4.78E-06 |
| 1352 | 259348.4 | 4084647 | 1.26E-06 | 1.82E-04 | 1.34E-04 | 1.34E-04 | 7.46E-05 | 1.91E-06 | 2.77E-05 | 2.09E-05 | 2.09E-05 | 1.15E-05 | 1.04E-06 | 1.50E-05 | 9.30E-06 | 9.30E-06 | 4.60E-06 |
| 1353 | 259358.4 | 4084669 | 1.21E-06 | 1.74E-04 | 1.29E-04 | 1.29E-04 | 7.16E-05 | 1.83E-06 | 2.66E-05 | 2.01E-05 | 2.01E-05 | 1.10E-05 | 9.94E-07 | 1.44E-05 | 8.93E-06 | 8.93E-06 | 4.42E-06 |
| 1354 | 259368.3 | 4084691 | 1.15E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.86E-05 | 1.75E-06 | 2.54E-05 | 1.92E-05 | 1.92E-05 | 1.06E-06 | 9.52E-07 | 1.38E-05 | 8.55E-06 | 8.55E-06 | 4.23E-06 |
| 1355 | 259378.3 | 4084713 | 1.11E-05 | 1.60E-04 | 1.18E-04 | 1.18E-04 | 6.57E-05 | 1.68E-06 | 2.43E-05 | 1.84E-06 | 1.84E-06 | 1.01E-05 | 9.11E-07 | 1.32E-05 | 8.18E-06 | 8.18E-06 | 4.05E-06 |
| 1356 | 259388.3 | 4084735 | 1.06E-05 | 1.53E-04 | 1.13E-04 | 1.13E-04 | 6.28E-05 | 1.60E-06 | 2.33E-05 | 1.76E-05 | 1.76E-05 | 9.67E-06 | 8.71E-07 | 1.26E-05 | 7.83E-06 | 7.83E-06 | 3.87E-06 |
| 1357 | 259398.3 | 4084758 | 1.01E-05 | 1.46E-04 | 1.08E-04 | 1.08E-04 | 6.01E-05 | 1.53E-06 | 2.23E-05 | 1.68E-06 | 1.68E-05 | 9.25E-06 | 8.34E-07 | 1.21E-06 | 7.49E-06 | 7.49E-06 | 3.71E-06 |
| 1358 | 259408.3 | 4084780 | 9.69E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.76E-05 | 1.47E-06 | 2.13E-05 | 1.61E-06 | 1.61E-06 | 8.86E-06 | 7.98E-07 | 1.15E-06 | 7.17E-06 | 7.17E-06 | 3.55E-06 |
| 1359 | 259418.3 | 4084802 | 9.29E-06 | 1.34E-04 | 9.90E-05 | 9.90E-05 | 5.52E-05 | 1.41E-06 | 2.05E-06 | 1.55E-06 | 1.55E-05 | 8.50E-06 | 7.66E-07 | 1.11E-05 | 6.88E-06 | 6.88E-06 | 3.41E-06 |
| 1360 | 259428.3 | 4084824 | 8.92E-06 | 1.29E-04 | 9.51E-05 | 9.51E-05 | 5.30E-05 | 1.35E-06 | 1.95E-05 | 1.48E-05 | 1.48E-05 | 8.16E-06 | 7.35E-07 | 1.06E-05 | 6.60E-06 | 6.60E-06 | 3.27E-06 |
| 1361 | 259438.2 | 4084846 | 8.56E-05 | 1.24E-04 | 9.13E-05 | 9.13E-05 | 5.09E-05 | 1.30E-06 | 1.89E-05 | 1.43E-06 | 1.43E-05 | 7.84E-06 | 7.06E-07 | 1.02E-05 | 6.34E-06 | 6.34E-06 | 3.14E-06 |
| 1362 | 259448.2 | 4084868 | 8.22E-06 | 1.19E-04 | 8.76E-05 | 8.76E-05 | 4.88E-05 | 1.25E-06 | 1.81E-05 | 1.37E-05 | 1.37E-05 | 7.52E-06 | 6.77E-07 | 9.80E-06 | 6.09E-06 | 6.09E-06 | 3.01E-06 |
| 1363 | 258313.5 | 4083823 | 3.68E-06 | 5.33E-05 | 3.93E-05 | 3.93E-05 | 2.19E-05 | 5.59E-07 | 8.12E-06 | 6.13E-06 | 6.13E-06 | 3.37E-06 | 3.04E-07 | 4.39E-06 | 2.73E-06 | 2.73E-06 | 1.35E-06 |
| 1364 | 258289.2 | 4083824 | 3.58E-06 | 5.17E-05 | 3.81E-05 | 3.81E-05 | 2.13E-05 | 5.43E-07 | 7.88E-06 | 5.95E-06 | 5.95E-06 | 3.27E-06 | 2.95E-07 | 4.26E-06 | 2.65E-06 | 2.65E-06 | 1.31E-06 |
| 1365 | 258264.8 | 4083825 | 3.47E-06 | 5.02E-05 | 3.70E-05 | 3.70E-05 | 2.06E-05 | 5.27E-07 | 7.65E-06 | 5.78E-06 | 5.78E-06 | 3.18E-06 | 2.86E-07 | 4.14E-06 | 2.57E-06 | 2.57E-06 | 1.27E-06 |
| 1366 | 258240.5 | 4083826 | 3.37E-06 | 4.88E-05 | 3.59E-05 | 3.59E-05 | 2.00E-05 | 5.12E-07 | 7.43E-06 | 5.61E-06 | 5.61E-06 | 3.08E-06 | 2.78E-07 | 4.02E-06 | 2.50E-06 | 2.50E-06 | 1.24E-06 |
| 1367 | 258216.2 | 4083827 | 3.27E-06 | 4.73E-05 | 3.49E-05 | 3.49E-05 | 1.94E-05 | 4.97E-07 | 7.21E-06 | 5.45E-06 | 5.45E-06 | 2.99E-06 | 2.70E-07 | 3.90E-06 | 2.42E-06 | 2.42E-06 | 1.20E-06 |
| 1368 | 258191.8 | 4083828 | 3.17E-06 | 4.59E-05 | 3.38E-05 | 3.38E-05 | 1.89E-05 | 4.82E-07 | 6.99E-06 | 5.28E-06 | 5.28E-06 | 2.90E-06 | 2.62E-07 | 3.78E-06 | 2.35E-06 | 2.35E-05 | 1.16E-06 |
| 1369 | 258167.5 | 4083829 | 3.08E-06 | 4.45E-05 | 3.28E-05 | 3.28E-05 | 1.83E-05 | 4.67E-07 | 6.79E-06 | 5.13E-06 | 5.13E-06 | 2.82E-06 | 2.54E-07 | 3.67E-06 | 2.28E-06 | 2.28E-06 | 1.13E-06 |
| 1370 | 258143.2 | 4083830 | 2.99E-06 | 4.32E-05 | 3.18E-05 | 3.18E-05 | 1.77E-05 | 4.53E-07 | 6.58E-06 | 4.97E-06 | 4.97E-06 | 2.73E-06 | 2.46E-07 | 3.56E-06 | 2.21E-06 | 2.21E-05 | 1.09E-06 |
| 1371 | 258118.8 | 4083831 | 2.89E-06 | 4.18E-05 | 3.08E-05 | 3.08E-05 | 1.72E-05 | 4.39E-07 | 6.38E-06 | 4.82E-06 | 4.82E-06 | 2.65E-06 | 2.38E-07 | 3.45E-06 | 2.14E-06 | 2.14E-06 | 1.06E-06 |
| 1372 | 258094.5 | 4083832 | 2.80E-06 | 4.05E-05 | 2.99E-05 | 2.99E-05 | 1.66E-05 | 4.25E-07 | 6.17E-06 | 4.66E-06 | 4.66E-05 | 2.56E-06 | 2.31E-07 | 3.34E-05 | 2.07E-06 | 2.07E-06 | 1.03E-06 |
| 1373 | 258070.2 | 4083833 | 2.71E-06 | 3.92E-05 | 2.89E-05 | 2.89E-05 | 1.61E-05 | 4.12E-07 | 5.98E-06 | 4.52E-06 | 4.52E-06 | 2.48E-06 | 2.24E-07 | 3.23E-06 | 2.01E-06 | 2.01E-06 | 9.95E-07 |
| 1374 | 258045.9 | 4083834 | 2.63E-06 | 3.80E-05 | 2.80E-05 | 2.80E-05 | 1.56E-05 | 3.99E-07 | 5.79E-06 | 4.38E-06 | 4.38E-06 | 2.41E-06 | 2.17E-07 | 3.13E-06 | 1.95E-06 | 1.95E-06 | 9.64E-07 |
| 1375 | 258021.5 | 4083835 | 2.55E-06 | 3.68E-05 | 2.72E-05 | 2.72E-05 | 1.51E-05 | 3.87E-07 | 5.61E-06 | 4.24E-06 | 4.24E-06 | 2.33E-06 | 2.10E-07 | 3.04E-06 | 1.89E-06 | 1.89E-06 | 9.34E-07 |
| 1376 | 257997.2 | 4083836 | 2.47E-06 | 3.57E-05 | 2.63E-05 | 2.63E-05 | 1.47E-05 | 3.75E-07 | 5.44E-06 | 4.11E-06 | 4.11E-06 | 2.26E-06 | 2.04E-07 | 2.94E-06 | 1.83E-06 | 1.83E-05 | 9.05E-07 |
| 1377 | 257972.9 | 4083837 | 2.39E-06 | 3.46E-05 | 2.55E-05 | 2.55E-05 | 1.42E-05 | 3.63E-07 | 5.27E-06 | 3.98E-06 | 3.98E-06 | 2.19E-06 | 1.97E-07 | 2.85E-06 | 1.77E-06 | 1.77E-06 | 8.77E-07 |
| 1378 | 257948.5 | 4083838 | 2.33E-06 | 3.36E-05 | 2.48E-05 | 2.48E-05 | 1.38E-05 | 3.53E-07 | 5.12E-06 | 3.87E-06 | 3.87E-06 | 2.13E-06 | 1.92E-07 | 2.77E-06 | 1.72E-06 | 1.72E-06 | 8.53E-07 |
| 1379 | 257924.2 | 4083839 | 2.26E-06 | 3.27E-05 | 2.41E-05 | 2.41E-05 | 1.34E-05 | 3.43E-07 | 4.98E-06 | 3.76E-06 | 3.76E-06 | 2.07E-06 | 1.86E-07 | 2.69E-06 | 1.67E-06 | 1.67E-06 | 8.28E-07 |
| 1380 | 257899.9 | 4083840 | 2.20E-06 | 3.18E-05 | 2.35E-05 | 2.35E-05 | 1.31E-05 | 3.34E-07 | 4.85E-06 | 3.66E-06 | 3.86E-06 | 2.01E-06 | 1.81E-07 | 2.62E-06 | 1.63E-06 | 1.63E-05 | 8.07E-07 |
| 1381 | 257875.5 | 4083841 | 2.14E-06 | 3.10E-05 | 2.28E-05 | 2.28E-05 | 1.27E-05 | 3.25E-07 | 4.72E-06 | 3.57E-06 | 3.57E-06 | 1.96E-06 | 1.77E-07 | 2.56E-06 | 1.59E-06 | 1.59E-06 | 7.86E-07 |
| 1382 | 257851.2 | 4083842 | 2.09E-06 | 3.03E-05 | 2.23E-05 | 2.23E-05 | 1.24E-05 | 3.18E-07 | 4.61E-06 | 3.48E-06 | 3.48E-06 | 1.91E-06 | 1.72E-07 | 2.49E-06 | 1.55E-06 | 1.55E-06 | 7.67E-07 |
| 1383 | 257826.9 | 4083843 | 2.05E-06 | 2.96E-05 | 2.18E-05 | 2.18E-05 | 1.22E-05 | 3.10E-07 | 4.51E-06 | 3.40E-06 | 3.40E-06 | 1.87E-06 | 1.69E-07 | 2.44E-06 | 1.51E-06 | 1.51E-06 | 7.50E-07 |
| 1384 | 257802.5 | 4083844 | 2.00E-06 | 2.90E-05 | 2.13E-05 | 2.13E-05 | 1.19E-05 | 3.04E-07 | 4.41E-06 | 3.33E-06 | 3.33E-06 | 1.83E-06 | 1.65E-07 | 2.39E-06 | 1.48E-06 | 1.48E-06 | 7.34E-07 |
| 1385 | 257778.2 | 4083845 | 1.96E-06 | 2.84E-05 | 2.09E-05 | 2.09E-05 | 1.17E-05 | 2.98E-07 | 4.33E-06 | 3.27E-06 | 3.27E-06 | 1.80E-06 | 1.62E-07 | 2.34E-06 | 1.45E-06 | 1.45E-06 | 7.20E-07 |
| 1386 | 257753.9 | 4083846 | 1.93E-06 | 2.79E-05 | 2.06E-05 | 2.06E-05 | 1.15E-05 | 2.93E-07 | 4.25E-06 | 3.21E-06 | 3.21E-06 | 1.76E-06 | 1.59E-07 | 2.30E-06 | 1.43E-06 | 1.43E-06 | 7.07E-07 |
| 1387 | 257729.5 | 4083847 | 1.90E-06 | 2.74E-05 | 2.02E-05 | 2.02E-05 | 1.13E-05 | 2.88E-07 | 4.18E-06 | 3.15E-06 | 3.15E-06 | 1.73E-06 | 1.56E-07 | 2.26E-06 | 1.40E-06 | 1.40E-06 | 6.95E-07 |
| 1388 | 257705.2 | 4083848 | 1.86E-06 | 2.70E-05 | 1.99E-05 | 1.99E-05 | 1.11E-05 | 2.83E-07 | 4.11E-06 | 3.10E-06 | 3.10E-06 | 1.71E-06 | 1.54E-07 | 2.22E-06 | 1.38E-06 | 1.38E-06 | 6.84E-07 |
| 1389 | 257680.9 | 4083849 | 1.84E-06 | 2.66E-05 | 1.96E-05 | 1.96E-05 | 1.09E-05 | 2.79E-07 | 4.05E-06 | 3.06E-06 | 3.06E-06 | 1.68E-06 | 1.52E-07 | 2.19E-06 | 1.36E-06 | 1.36E-06 | 6.74E-07 |
| 1390 | 257656.5 | 4083850 | 1.81E-06 | 2.62E-05 | 1.93E-05 | 1.93E-05 | 1.08E-05 | 2.75E-07 | 3.99E-06 | 3.02E-06 | 3.02E-06 | 1.86E-06 | 1.49E-07 | 2.16E-06 | 1.34E-05 | 1.34E-06 | 6.64E-07 |
| 1391 | 257632.2 | 4083851 | 1.79E-06 | 2.59E-05 | 1.91E-05 | 1.91E-05 | 1.06E-05 | 2.71E-07 | 3.94E-06 | 2.98E-06 | 2.98E-06 | 1.64E-06 | 1.47E-07 | 2.13E-06 | 1.32E-06 | 1.32E-06 | 6.56E-07 |
| 1392 | 257607.9 | 4083852 | 1.76E-06 | 2.55E-05 | 1.88E-05 | 1.88E-05 | 1.05E-05 | 2.68E-07 | 3.89E-06 | 2.94E-06 | 2.94E-06 | 1.61E-06 | 1.45E-07 | 2.10E-06 | 1.31E-06 | 1.31E-06 | 6.47E-07 |
| 1393 | 257583.5 | 4083853 | 1.74E-06 | 2.52E-05 | 1.86E-05 | 1.86E-05 | 1.04E-05 | 2.64E-07 | 3.84E-06 | 2.90E-06 | 2.90E-06 | 1.59E-06 | 1.44E-07 | 2.08E-06 | 1.29E-06 | 1.29E-06 | 6.38E-07 |
| 1394 | 257559.2 | 4083854 | 1.72E-06 | 2.49E-05 | 1.83E-05 | 1.83E-05 | 1.02E-05 | 2.61E-07 | 3.79E-06 | 2.86E-06 | 2.86E-06 | 1.57E-06 | 1.42E-07 | 2.05E-06 | 1.27E-06 | 1.27E-06 | 6.30E-07 |
| 1395 | 257534.9 | 4083855 | 1.69E-06 | 2.45E-05 | 1.81E-05 | 1.81E-05 | 1.01E-05 | 2.57E-07 | 3.73E-06 | 2.82E-06 | 2.82E-06 | 1.55E-06 | 1.40E-07 | 2.02E-06 | 1.25E-06 | 1.25E-06 | 6.21E-07 |
| 1396 | 257510.6 | 4083856 | 1.67E-06 | 2.42E-05 | 1.78E-05 | 1.78E-05 | 9.94E-06 | 2.54E-07 | 3.68E-06 | 2.78E-06 | 2.78E-06 | 1.53E-06 | 1.38E-07 | 1.99E-06 | 1.24E-06 | 1.24E-06 | 6.13E-07 |
| 1397 | 258327.7 | 4083631 | 2.62E-06 | 3.79E-05 | 2.79E-05 | 2.79E-05 | 1.56E-05 | 3.97E-07 | 5.77E-06 | 4.36E-06 | 4.36E-06 | 2.40E-06 | 2.16E-07 | 3.12E-06 | 1.94E-06 | 1.94E-06 | 9.60E-07 |
| 1398 | 258350 | 4083640 | 2.72E-06 | 3.94E-05 | 2.90E-05 | 2.90E-05 | 1.62E-05 | 4.13E-07 | 6.00E-06 | 4.53E-06 | 4.53E-06 | 2.49E-06 | 2.24E-07 | 3.24E-06 | 2.02E-06 | 2.02E-06 | 9.98E-07 |
| 1399 | 258372.4 | 4083648 | 2.83E-06 | 4.09E-05 | 3.02E-05 | 3.02E-05 | 1.68E-05 | 4.29E-07 | 6.24E-06 | 4.71E-06 | 4.71E-06 | 2.59E-06 | 2.33E-07 | 3.37E-06 | 2.10E-06 | 2.10E-06 | 1.04E-06 |
| 1400 | 258394.8 | 4083656 | 2.95E-06 | 4.26E-05 | 3.14E-05 | 3.14E-05 | 1.75E-06 | 4.47E-07 | 6.49E-06 | 4.90E-06 | 4.90E-06 | 2.70E-06 | 2.43E-07 | 3.51E-06 | 2.18E-06 | 2.18E-06 | 1.08E-06 |
| 1401 | 258417.2 | 4083665 | 3.07E-06 | 4.45E-05 | 3.28E-05 | 3.28E-05 | 1.83E-06 | 4.66E-07 | 6.77E-06 | 5.12E-06 | 5.12E-06 | 2.81E-06 | 2.53E-07 | 3.66E-06 | 2.28E-06 | 2.28E-06 | 1.13E-06 |
| 1402 | 258439.5 | 4083673 | 3.21E-06 | 4.64E-05 | 3.42E-05 | 3.42E-05 | 1.91E-05 | 4.87E-07 | 7.07E-06 | 5.34E-06 | 5.34E-06 | 2.94E-06 | 2.65E-07 | 3.83E-06 | 2.38E-06 | 2.38E-06 | 1.18E-06 |
| 1403 | 258461.9 | 4083681 | 3.35E-06 | 4.85E-05 | 3.58E-05 | 3.58E-05 | 1.99E-05 | 5.09E-07 | 7.39E-06 | 5.58E-06 | 5.58E-06 | 3.07E-06 | 2.77E-07 | 4.00E-06 | 2.48E-06 | 2.48E-06 | 1.23E-06 |
| 1404 | 258484.3 | 4083689 | 3.51E-06 | 5.08E-05 | 3.74E-05 | 3.74E-05 | 2.09E-05 | 5.33E-07 | 7.73E-06 | 5.84E-06 | 5.84E-06 | 3.21E-06 | 2.89E-07 | 4.18E-06 | 2.60E-06 | 2.60E-06 | 1.29E-06 |
| 1405 | 258506.7 | 4083698 | 3.68E-06 | 5.32E-05 | 3.92E-05 | 3.92E-05 | 2.19E-05 | 5.59E-07 | 8.11E-06 | 6.13E-06 | 6.13E-06 | 3.37E-06 | 3.03E-07 | 4.39E-06 | 2.73E-06 | 2.73E-06 | 1.35E-06 |
| 1406 | 258529 | 4083706 | 3.86E-06 | 5.58E-05 | 4.12E-05 | 4.12E-05 | 2.29E-06 | 5.86E-07 | 8.51E-06 | 6.43E-06 | 6.43E-06 | 3.53E-06 | 3.18E-07 | 4.60E-06 | 2.86E-06 | 2.86E-06 | 1.42E-06 |
| 1407 | 258551.4 | 4083714 | 4.05E-06 | 5.86E-05 | 4.32E-05 | 4.32E-05 | 2.41E-05 | 6.15E-07 | 8.93E-06 | 6.75E-06 | 6.75E-06 | 3.71E-06 | 3.34E-07 | 4.83E-06 | 3.00E-06 | 3.00E-06 | 1.49E-06 |
| 1408 | 258573.8 | 4083723 | 4.26E-06 | 6.16E-05 | 4.54E-05 | 4.54E-06 | 2.53E-06 | 6.46E-07 | 9.38E-06 | 7.09E-06 | 7.09E-06 | 3.90E-06 | 3.51E-07 | 5.08E-06 | 3.15E-06 | 3.15E-06 | 1.56E-06 |
| 1409 | 258596.2 | 4083731 | 4.48E-06 | 6.47E-05 | 4.77E-05 | 4.77E-06 | 2.66E-05 | 6.79E-07 | 9.86E-06 | 7.45E-06 | 7.45E-06 | 4.10E-06 | 3.69E-07 | 5.34E-06 | 3.31E-06 | 3.31E-06 | 1.64E-06 |
| 1410 | 258618.5 | 4083739 | 4.70E-06 | 6.80E-05 | 5.01E-05 | 5.01E-05 | 2.79E-05 | 7.14E-07 | 1.04E-05 | 7.83E-06 | 7.83E-06 | 4.30E-06 | 3.88E-07 | 5.61E-06 | 3.48E-06 | 3.48E-06 | 1.72E-06 |
| 1411 | 258640.9 | 4083747 | 4.94E-06 | 7.15E-05 | 5.27E-06 | 5.27E-05 | 2.94E-05 | 7.50E-07 | 1.09E-05 | 8.23E-06 | 8.23E-06 | 4.52E-06 | 4.07E-07 | 5.89E-06 | 3.66E-06 | 3.66E-06 | 1.81E-06 |
| 1412 | 258663.3 | 4083756 | 5.19E-06 | 7.51E-05 | 5.53E-05 | 5.53E-05 | 3.08E-05 | 7.88E-07 | 1.14E-05 | 8.64E-06 | 8.64E-06 | 4.75E-06 | 4.28E-07 | 6.19E-06 | 3.84E-06 | 3.84E-06 | 1.90E-06 |
| 1413 | 258685.7 | 4083764 | 5.45E-06 | 7.88E-05 | 5.81E-05 | 5.81E-05 | 3.24E-05 | 8.27E-07 | 1.20E-05 | 9.07E-06 | 9.07E-06 | 4.99E-06 | 4.49E-07 | 6.50E-06 | 4.04E-06 | 4.04E-06 | 2.00E-06 |
| 1414 | 258708 | 4083772 | 5.72E-06 | 8.27E-05 | 6.10E-05 | 6.10E-05 | 3.40E-05 | 8.68E-07 | 1.26E-05 | 9.52E-06 | 9.52E-06 | 5.23E-06 | 4.71E-07 | 6.82E-06 | 4.24E-06 | 4.24E-06 | 2.10E-06 |
| 1415 | 258730.4 | 4083781 | 6.00E-06 | 8.67E-05 | 6.39E-05 | 6.39E-05 | 3.56E-05 | 9.10E-07 | 1.32E-05 | 9.98E-06 | 9.98E-06 | 5.49E-06 | 4.94E-07 | 7.15E-06 | 4.44E-06 | 4.44E-06 | 2.20E-06 |
| 1416 | 258752.8 | 4083789 | 6.28E-06 | 9.09E-05 | 6.70E-05 | 6.70E-05 | 3.73E-05 | 9.53E-07 | 1.38E-05 | 1.05E-05 | 1.05E-05 | 5.75E-06 | 5.18E-07 | 7.49E-06 | 4.65E-06 | 4.65E-06 | 2.30E-06 |
| 1417 | 258775.2 | 4083797 | 6.57E-06 | 9.51E-05 | 7.01E-05 | 7.01E-05 | 3.91E-05 | 9.98E-07 | 1.45E-05 | 1.09E-05 | 1.09E-05 | 6.02E-06 | 5.42E-07 | 7.84E-06 | 4.87E-06 | 4.87E-06 | 2.41E-06 |
| 1418 | 258797.6 | 4083805 | 6.87E-06 | 9.94E-05 | 7.33E-05 | 7.33E-05 | 4.08E-05 | 1.04E-06 | 1.51E-05 | 1.14E-06 | 1.14E-05 | 6.29E-06 | 5.67E-07 | 8.19E-06 | 5.09E-06 | 5.09E-06 | 2.52E-06 |
| 1419 | 258819.9 | 4083814 | 7.18E-06 | 1.04E-04 | 7.65E-05 | 7.65E-05 | 4.27E-05 | 1.09E-06 | 1.58E-05 | 1.19E-05 | 1.19E-05 | 6.57E-06 | 5.92E-07 | 8.56E-06 | 5.32E-06 | 5.32E-06 | 2.63E-06 |
| 1420 | 258842.3 | 4083822 | 7.49E-06 | 1.08E-04 | 7.98E-06 | 7.98E-05 | 4.45E-05 | 1.14E-06 | 1.65E-05 | 1.25E-05 | 1.25E-05 | 6.85E-06 | 6.17E-07 | 8.92E-06 | 5.54E-06 | 5.54E-06 | 2.74E-06 |
| 1421 | 258864.7 | 4083830 | 7.79E-06 | 1.13E-04 | 8.31E-05 | 8.31E-05 | 4.63E-05 | 1.18E-06 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.13E-06 | 6.43E-07 | 9.29E-06 | 5.77E-06 | 5.77E-06 | 2.86E-06 |
| 1422 | 258887.1 | 4083839 | 8.11E-06 | 1.17E-04 | 8.64E-05 | 8.64E-05 | 4.82E-05 | 1.23E-06 | 1.79E-05 | 1.35E-05 | 1.35E-05 | 7.42E-06 | 6.68E-07 | 9.66E-06 | 6.00E-05 | 6.00E-05 | 2.97E-06 |
| 1423 | 258909.4 | 4083847 | 8.42E-06 | 1.22E-04 | 8.97E-05 | 8.97E-05 | 5.00E-05 | 1.28E-06 | 1.85E-05 | 1.40E-05 | 1.40E-05 | 7.70E-06 | 6.94E-07 | 1.00E-05 | 6.23E-06 | 6.23E-06 | 3.08E-06 |
| 1424 | 258931.8 | 4083855 | 8.73E-06 | 1.26E-04 | 9.30E-05 | 9.30E-05 | 5.19E-05 | 1.32E-06 | 1.92E-05 | 1.45E-05 | 1.45E-05 | 7.98E-06 | 7.19E-07 | 1.04E-05 | 6.46E-06 | 6.46E-06 | 3.20E-06 |
| 1425 | 258954.2 | 4083863 | 9.03E-06 | 1.31E-04 | 9.63E-05 | 9.63E-05 | 5.37E-05 | 1.37E-06 | 1.99E-05 | 1.50E-05 | 1.50E-05 | 8.26E-06 | 7.44E-07 | 1.08E-05 | 6.69E-06 | 6.69E-06 | 3.31E-06 |
| 1426 | 258976.6 | 4083872 | 9.33E-06 | 1.35E-04 | 9.95E-05 | 9.95E-05 | 5.55E-05 | 1.42E-06 | 2.06E-05 | 1.55E-05 | 1.55E-05 | 8.54E-06 | 7.69E-07 | 1.11E-05 | 6.91E-06 | 6.91E-06 | 3.42E-06 |
| 1427 | 258998.9 | 4083880 | 9.62E-06 | 1.39E-04 | 1.03E-04 | 1.03E-04 | 5.72E-05 | 1.46E-06 | 2.12E-05 | 1.60E-05 | 1.60E-05 | 8.81E-06 | 7.93E-07 | 1.15E-05 | 7.13E-06 | 7.13E-06 | 3.53E-06 |
| 1428 | 259021.3 | 4083888 | 9.91E-06 | 1.43E-04 | 1.06E-04 | 1.06E-04 | 5.89E-05 | 1.50E-06 | 2.18E-05 | 1.65E-05 | 1.65E-05 | 9.07E-06 | 8.17E-07 | 1.18E-05 | 7.34E-05 | 7.34E-06 | 3.63E-06 |
| 1429 | 259043.7 | 4083897 | 1.02E-05 | 1.47E-04 | 1.09E-04 | 1.09E-04 | 6.05E-05 | 1.55E-06 | 2.24E-05 | 1.69E-05 | 1.69E-05 | 9.32E-06 | 8.39E-07 | 1.21E-05 | 7.54E-06 | 7.54E-06 | 3.73E-06 |
| 1430 | 259066.1 | 4083905 | 1.04E-05 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 6.20E-05 | 1.58E-06 | 2.30E-05 | 1.74E-05 | 1.74E-05 | 9.55E-06 | 8.60E-07 | 1.24E-05 | 7.73E-06 | 7.73E-06 | 3.82E-06 |
| 1431 | 259088.4 | 4083913 | 1.07E-05 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.34E-05 | 1.62E-06 | 2.35E-05 | 1.78E-05 | 1.78E-05 | 9.76E-06 | 8.80E-07 | 1.27E-05 | 7.90E-06 | 7.90E-06 | 3.91E-06 |
| 1432 | 259110.8 | 4083921 | 1.09E-05 | 1.57E-04 | 1.16E-04 | 1.16E-04 | 6.47E-05 | 1.65E-05 | 2.40E-05 | 1.81E-05 | 1.81E-05 | 9.96E-06 | 8.98E-07 | 1.30E-05 | 8.06E-06 | 8.06E-06 | 3.99E-06 |
| 1433 | 259133.2 | 4083930 | 1.11E-05 | 1.60E-04 | 1.18E-04 | 1.18E-04 | 6.59E-05 | 1.68E-06 | 2.44E-06 | 1.85E-05 | 1.85E-05 | 1.01E-05 | 9.14E-07 | 1.32E-05 | 8.21E-06 | 8.21E-06 | 4.07E-06 |
| 1434 | 259155.6 | 4083938 | 1.13E-05 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.70E-05 | 1.71E-06 | 2.48E-05 | 1.88E-05 | 1.88E-05 | 1.03E-05 | 9.29E-07 | 1.34E-05 | 8.34E-06 | 8.34E-06 | 4.13E-06 |
| 1435 | 259177.9 | 4083946 | 1.14E-05 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.78E-05 | 1.73E-06 | 2.51E-05 | 1.90E-05 | 1.90E-05 | 1.04E-05 | 9.41E-07 | 1.36E-05 | 8.45E-06 | 8.45E-06 | 4.18E-06 |
| 1436 | 259200.3 | 4083955 | 1.15E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.86E-05 | 1.75E-06 | 2.54E-05 | 1.92E-05 | 1.92E-05 | 1.06E-05 | 9.52E-07 | 1.38E-06 | 8.55E-06 | 8.55E-06 | 4.23E-06 |
| 1437 | 259222.7 | 4083963 | 1.17E-05 | 1.69E-04 | 1.24E-04 | 1.24E-04 | 6.93E-05 | 1.77E-06 | 2.57E-05 | 1.94E-05 | 1.94E-05 | 1.07E-05 | 9.61E-07 | 1.39E-06 | 8.63E-06 | 8.63E-06 | 4.27E-06 |
| 1438 | 259254.9 | 4083993 | 1.21E-05 | 1.74E-04 | 1.28E-04 | 1.28E-04 | 7.16E-05 | 1.83E-06 | 2.66E

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1130 | 258417.9 | 4084255 | 1.55E-05 | 2.24E-04 | 1.65E-04 | 1.65E-04 | 9.20E-05 | 2.35E-06 | 3.41E-05 | 2.58E-05 | 2.58E-05 | 1.42E-05 | 1.28E-06 | 1.85E-05 | 1.15E-05 | 1.15E-05 | 5.67E-06 |
| 1131 | 258439.9 | 4084263 | 1.65E-06 | 2.38E-04 | 1.75E-04 | 1.75E-04 | 9.78E-05 | 2.50E-06 | 3.63E-05 | 2.74E-05 | 2.74E-05 | 1.51E-05 | 1.36E-06 | 1.96E-05 | 1.22E-05 | 1.22E-06 | 6.03E-06 |
| 1132 | 258461.9 | 4084272 | 1.74E-06 | 2.52E-04 | 1.86E-04 | 1.86E-04 | 1.04E-04 | 2.65E-06 | 3.84E-05 | 2.90E-05 | 2.90E-05 | 1.60E-05 | 1.44E-06 | 2.08E-05 | 1.29E-05 | 1.29E-05 | 6.40E-06 |
| 1133 | 258483.9 | 4084280 | 1.84E-05 | 2.67E-04 | 1.97E-04 | 1.97E-04 | 1.10E-04 | 2.80E-06 | 4.06E-05 | 3.07E-05 | 3.07E-05 | 1.69E-05 | 1.52E-06 | 2.20E-05 | 1.37E-05 | 1.37E-05 | 6.76E-06 |
| 1134 | 258505.9 | 4084288 | 1.95E-05 | 2.81E-04 | 2.07E-04 | 2.07E-04 | 1.16E-04 | 2.95E-06 | 4.29E-05 | 3.24E-05 | 3.24E-05 | 1.78E-05 | 1.60E-06 | 2.32E-05 | 1.44E-05 | 1.44E-06 | 7.13E-06 |
| 1135 | 258527.9 | 4084296 | 2.05E-05 | 2.96E-04 | 2.18E-04 | 2.18E-04 | 1.22E-04 | 3.10E-06 | 4.51E-05 | 3.41E-05 | 3.41E-05 | 1.87E-05 | 1.69E-06 | 2.44E-05 | 1.52E-05 | 1.52E-05 | 7.50E-06 |
| 1136 | 258549.9 | 4084304 | 2.15E-05 | 3.10E-04 | 2.29E-04 | 2.29E-04 | 1.28E-04 | 3.26E-06 | 4.73E-05 | 3.57E-05 | 3.57E-05 | 1.96E-05 | 1.77E-06 | 2.56E-05 | 1.59E-06 | 1.59E-05 | 7.87E-06 |
| 1137 | 258571.9 | 4084312 | 2.24E-05 | 3.24E-04 | 2.39E-04 | 2.39E-04 | 1.33E-04 | 3.40E-06 | 4.94E-05 | 3.73E-06 | 3.73E-05 | 2.05E-05 | 1.85E-06 | 2.67E-05 | 1.66E-06 | 1.66E-05 | 8.22E-06 |
| 1138 | 258594 | 4084320 | 2.34E-05 | 3.38E-04 | 2.49E-04 | 2.49E-04 | 1.39E-04 | 3.55E-06 | 5.15E-05 | 3.89E-05 | 3.89E-05 | 2.14E-05 | 1.93E-06 | 2.79E-05 | 1.73E-05 | 1.73E-05 | 8.57E-06 |
| 1139 | 258616 | 4084329 | 2.43E-05 | 3.52E-04 | 2.59E-04 | 2.59E-04 | 1.44E-04 | 3.69E-06 | 5.36E-06 | 4.05E-05 | 4.05E-05 | 2.22E-05 | 2.00E-06 | 2.90E-05 | 1.80E-05 | 1.80E-05 | 8.91E-06 |
| 1140 | 258638 | 4084337 | 2.52E-05 | 3.64E-04 | 2.69E-04 | 2.69E-04 | 1.50E-04 | 3.82E-06 | 5.55E-05 | 4.19E-05 | 4.19E-05 | 2.30E-05 | 2.08E-06 | 3.00E-05 | 1.87E-05 | 1.87E-05 | 9.23E-06 |
| 1141 | 258660 | 4084345 | 2.60E-05 | 3.76E-04 | 2.77E-04 | 2.77E-04 | 1.55E-04 | 3.95E-06 | 5.73E-05 | 4.33E-05 | 4.33E-05 | 2.38E-05 | 2.14E-06 | 3.10E-06 | 1.93E-06 | 1.93E-06 | 9.54E-06 |
| 1142 | 258682 | 4084353 | 2.68E-05 | 3.87E-04 | 2.86E-04 | 2.86E-04 | 1.59E-04 | 4.06E-06 | 5.90E-05 | 4.46E-05 | 4.46E-05 | 2.45E-05 | 2.21E-06 | 3.19E-05 | 1.98E-06 | 1.98E-05 | 9.82E-06 |
| 1143 | 258704 | 4084361 | 2.75E-05 | 3.97E-04 | 2.93E-04 | 2.93E-04 | 1.63E-04 | 4.17E-06 | 6.05E-05 | 4.57E-05 | 4.57E-05 | 2.51E-05 | 2.26E-06 | 3.28E-05 | 2.03E-05 | 2.03E-05 | 1.01E-06 |
| 1144 | 258726 | 4084369 | 2.81E-05 | 4.06E-04 | 2.99E-04 | 2.99E-04 | 1.67E-04 | 4.26E-06 | 6.19E-05 | 4.67E-05 | 4.67E-05 | 2.57E-05 | 2.31E-06 | 3.35E-05 | 2.08E-06 | 2.08E-05 | 1.03E-05 |
| 1145 | 258748 | 4084377 | 2.86E-05 | 4.14E-04 | 3.05E-04 | 3.05E-04 | 1.70E-04 | 4.34E-06 | 6.30E-05 | 4.76E-05 | 4.76E-05 | 2.62E-05 | 2.36E-06 | 3.41E-05 | 2.12E-05 | 2.12E-05 | 1.05E-05 |
| 1146 | 258770 | 4084386 | 2.90E-05 | 4.19E-04 | 3.09E-04 | 3.09E-04 | 1.72E-04 | 4.40E-06 | 6.39E-05 | 4.82E-05 | 4.82E-05 | 2.65E-05 | 2.39E-06 | 3.46E-05 | 2.15E-05 | 2.15E-05 | 1.06E-05 |
| 1147 | 258792 | 4084394 | 2.93E-05 | 4.23E-04 | 3.12E-04 | 3.12E-04 | 1.74E-04 | 4.44E-06 | 6.45E-05 | 4.87E-05 | 4.87E-05 | 2.68E-05 | 2.41E-06 | 3.49E-05 | 2.17E-05 | 2.17E-05 | 1.07E-05 |
| 1148 | 258814 | 4084402 | 2.93E-05 | 4.24E-04 | 3.13E-04 | 3.13E-04 | 1.74E-04 | 4.45E-06 | 6.46E-05 | 4.88E-05 | 4.88E-05 | 2.68E-05 | 2.42E-06 | 3.50E-06 | 2.17E-05 | 2.17E-05 | 1.08E-05 |
| 1149 | 258845.6 | 4084431 | 3.03E-05 | 4.38E-04 | 3.23E-04 | 3.23E-04 | 1.80E-04 | 4.60E-06 | 6.67E-05 | 5.04E-05 | 5.04E-05 | 2.77E-05 | 2.50E-06 | 3.61E-05 | 2.24E-05 | 2.24E-05 | 1.11E-05 |
| 1150 | 258855.3 | 4084453 | 3.11E-05 | 4.50E-04 | 3.32E-04 | 3.32E-04 | 1.85E-04 | 4.72E-06 | 6.86E-06 | 5.18E-05 | 5.18E-05 | 2.85E-05 | 2.56E-06 | 3.71E-05 | 2.30E-05 | 2.30E-05 | 1.14E-05 |
| 1151 | 258865 | 4084474 | 3.18E-05 | 4.60E-04 | 3.39E-04 | 3.39E-04 | 1.89E-04 | 4.82E-06 | 7.00E-05 | 5.29E-05 | 5.29E-05 | 2.91E-05 | 2.62E-06 | 3.79E-05 | 2.35E-05 | 2.35E-05 | 1.17E-05 |
| 1152 | 258874.6 | 4084496 | 3.23E-06 | 4.67E-04 | 3.44E-04 | 3.44E-04 | 1.92E-04 | 4.90E-06 | 7.12E-05 | 5.38E-05 | 5.38E-05 | 2.96E-05 | 2.66E-06 | 3.85E-06 | 2.39E-05 | 2.39E-05 | 1.18E-05 |
| 1153 | 258884.3 | 4084517 | 3.26E-06 | 4.72E-04 | 3.48E-04 | 3.48E-04 | 1.94E-04 | 4.95E-06 | 7.19E-06 | 5.43E-05 | 5.43E-05 | 2.99E-05 | 2.69E-06 | 3.89E-05 | 2.42E-06 | 2.42E-05 | 1.20E-05 |
| 1154 | 258894 | 4084538 | 3.28E-06 | 4.74E-04 | 3.50E-04 | 3.50E-04 | 1.95E-04 | 4.98E-06 | 7.23E-05 | 5.46E-05 | 5.46E-05 | 3.00E-05 | 2.70E-06 | 3.91E-05 | 2.43E-05 | 2.43E-05 | 1.20E-05 |
| 1155 | 258903.7 | 4084560 | 3.27E-06 | 4.74E-04 | 3.49E-04 | 3.49E-04 | 1.95E-04 | 4.97E-06 | 7.22E-05 | 5.45E-05 | 5.45E-05 | 3.00E-05 | 2.70E-06 | 3.90E-05 | 2.43E-05 | 2.43E-05 | 1.20E-05 |
| 1156 | 258913.3 | 4084581 | 3.25E-06 | 4.70E-04 | 3.47E-04 | 3.47E-04 | 1.93E-04 | 4.93E-06 | 7.16E-06 | 5.41E-05 | 5.41E-05 | 2.97E-05 | 2.68E-06 | 3.88E-05 | 2.41E-05 | 2.41E-05 | 1.19E-05 |
| 1157 | 258923 | 4084602 | 3.21E-05 | 4.64E-04 | 3.42E-04 | 3.42E-04 | 1.91E-04 | 4.87E-06 | 7.07E-05 | 5.34E-05 | 5.34E-05 | 2.93E-05 | 2.64E-06 | 3.82E-06 | 2.37E-06 | 2.37E-05 | 1.18E-05 |
| 1158 | 258932.7 | 4084624 | 3.14E-05 | 4.56E-04 | 3.36E-04 | 3.35E-04 | 1.87E-04 | 4.77E-06 | 6.93E-05 | 5.23E-05 | 5.23E-05 | 2.88E-05 | 2.59E-06 | 3.75E-05 | 2.33E-06 | 2.33E-05 | 1.16E-06 |
| 1159 | 258942.3 | 4084645 | 3.06E-05 | 4.43E-04 | 3.27E-04 | 3.27E-04 | 1.82E-04 | 4.65E-06 | 6.75E-05 | 5.10E-05 | 5.10E-05 | 2.80E-05 | 2.53E-06 | 3.65E-05 | 2.27E-05 | 2.27E-05 | 1.12E-05 |
| 1160 | 258952 | 4084667 | 2.97E-05 | 4.29E-04 | 3.16E-04 | 3.16E-04 | 1.76E-04 | 4.50E-06 | 6.54E-05 | 4.94E-05 | 4.94E-05 | 2.72E-05 | 2.45E-06 | 3.54E-05 | 2.20E-05 | 2.20E-05 | 1.09E-05 |
| 1161 | 258961.7 | 4084688 | 2.86E-05 | 4.13E-04 | 3.05E-04 | 3.05E-04 | 1.70E-04 | 4.34E-06 | 6.30E-05 | 4.76E-05 | 4.76E-05 | 2.62E-05 | 2.36E-06 | 3.41E-05 | 2.12E-05 | 2.12E-05 | 1.05E-05 |
| 1162 | 258971.4 | 4084709 | 2.74E-05 | 3.96E-04 | 2.92E-04 | 2.92E-04 | 1.63E-04 | 4.16E-06 | 6.04E-06 | 4.56E-05 | 4.56E-05 | 2.51E-05 | 2.26E-06 | 3.27E-06 | 2.03E-05 | 2.03E-05 | 1.00E-05 |
| 1163 | 258981 | 4084731 | 2.61E-05 | 3.78E-04 | 2.78E-04 | 2.78E-04 | 1.55E-04 | 3.96E-06 | 5.75E-05 | 4.35E-06 | 4.35E-06 | 2.39E-05 | 2.15E-06 | 3.11E-06 | 1.93E-05 | 1.93E-05 | 9.57E-06 |
| 1164 | 258990.7 | 4084752 | 2.48E-06 | 3.59E-04 | 2.64E-04 | 2.64E-04 | 1.47E-04 | 3.76E-06 | 5.46E-05 | 4.13E-05 | 4.13E-05 | 2.27E-05 | 2.04E-06 | 2.96E-05 | 1.84E-05 | 1.84E-05 | 9.09E-06 |
| 1165 | 259000.4 | 4084773 | 2.35E-05 | 3.39E-04 | 2.50E-04 | 2.50E-04 | 1.39E-04 | 3.56E-06 | 5.17E-05 | 3.90E-05 | 3.90E-05 | 2.15E-05 | 1.93E-06 | 2.80E-05 | 1.74E-05 | 1.74E-05 | 8.60E-06 |
| 1166 | 259010 | 4084795 | 2.21E-05 | 3.20E-04 | 2.36E-04 | 2.36E-04 | 1.32E-04 | 3.36E-06 | 4.88E-05 | 3.68E-05 | 3.68E-05 | 2.02E-05 | 1.82E-06 | 2.64E-05 | 1.64E-05 | 1.64E-05 | 8.11E-06 |
| 1167 | 259019.7 | 4084816 | 2.08E-05 | 3.01E-04 | 2.22E-04 | 2.22E-04 | 1.24E-04 | 3.16E-06 | 4.59E-05 | 3.47E-05 | 3.47E-05 | 1.91E-05 | 1.72E-06 | 2.48E-05 | 1.54E-05 | 1.54E-05 | 7.64E-06 |
| 1168 | 259029.4 | 4084838 | 1.96E-05 | 2.83E-04 | 2.09E-04 | 2.09E-04 | 1.16E-04 | 2.97E-06 | 4.32E-05 | 3.26E-05 | 3.26E-05 | 1.79E-05 | 1.62E-06 | 2.34E-05 | 1.45E-06 | 1.45E-05 | 7.18E-06 |
| 1169 | 259039 | 4084859 | 1.84E-05 | 2.66E-04 | 1.96E-04 | 1.96E-04 | 1.09E-04 | 2.79E-06 | 4.06E-06 | 3.06E-06 | 3.06E-05 | 1.68E-05 | 1.52E-06 | 2.19E-06 | 1.36E-05 | 1.36E-05 | 6.75E-06 |
| 1170 | 259048.7 | 4084880 | 1.73E-06 | 2.50E-04 | 1.84E-04 | 1.84E-04 | 1.03E-04 | 2.62E-06 | 3.81E-05 | 2.88E-05 | 2.88E-05 | 1.58E-06 | 1.42E-06 | 2.06E-05 | 1.28E-05 | 1.28E-05 | 6.33E-06 |
| 1171 | 258329.9 | 4084223 | 1.19E-05 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.06E-06 | 1.80E-06 | 2.62E-06 | 1.98E-05 | 1.98E-05 | 1.09E-05 | 9.80E-07 | 1.42E-05 | 8.80E-06 | 8.80E-06 | 4.36E-06 |
| 1172 | 258305.6 | 4084224 | 1.14E-06 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.78E-06 | 1.73E-06 | 2.51E-05 | 1.90E-06 | 1.90E-05 | 1.04E-05 | 9.40E-07 | 1.36E-05 | 8.45E-06 | 8.45E-06 | 4.18E-06 |
| 1173 | 258281.3 | 4084225 | 1.09E-06 | 1.58E-04 | 1.17E-04 | 1.17E-04 | 6.50E-05 | 1.66E-06 | 2.41E-05 | 1.82E-05 | 1.82E-05 | 1.00E-06 | 9.01E-07 | 1.30E-06 | 8.10E-06 | 8.10E-06 | 4.01E-06 |
| 1174 | 258256.9 | 4084226 | 1.05E-05 | 1.51E-04 | 1.12E-04 | 1.12E-04 | 6.22E-05 | 1.59E-06 | 2.31E-05 | 1.74E-05 | 1.74E-05 | 9.57E-06 | 8.62E-07 | 1.25E-05 | 7.75E-06 | 7.75E-06 | 3.84E-06 |
| 1175 | 258232.6 | 4084227 | 1.00E-05 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.94E-05 | 1.52E-06 | 2.20E-05 | 1.66E-05 | 1.66E-06 | 9.15E-06 | 8.24E-07 | 1.19E-06 | 7.40E-06 | 7.40E-06 | 3.66E-06 |
| 1176 | 258208.3 | 4084228 | 9.53E-06 | 1.38E-04 | 1.02E-04 | 1.02E-04 | 5.67E-05 | 1.45E-06 | 2.10E-05 | 1.59E-05 | 1.59E-05 | 8.72E-06 | 7.86E-07 | 1.14E-06 | 7.06E-06 | 7.06E-06 | 3.49E-06 |
| 1177 | 258183.9 | 4084229 | 9.08E-06 | 1.31E-04 | 9.68E-05 | 9.68E-05 | 5.40E-05 | 1.38E-06 | 2.00E-05 | 1.51E-05 | 1.51E-05 | 8.31E-06 | 7.49E-07 | 1.08E-05 | 6.73E-06 | 6.73E-06 | 3.33E-06 |
| 1178 | 258159.6 | 4084230 | 8.64E-06 | 1.25E-04 | 9.21E-05 | 9.21E-05 | 5.14E-05 | 1.31E-06 | 1.90E-05 | 1.44E-06 | 1.44E-05 | 7.91E-06 | 7.12E-07 | 1.03E-05 | 6.40E-06 | 6.40E-06 | 3.17E-06 |
| 1179 | 258135.3 | 4084231 | 8.21E-06 | 1.19E-04 | 8.76E-06 | 8.76E-05 | 4.68E-05 | 1.25E-06 | 1.81E-05 | 1.37E-05 | 1.37E-05 | 7.52E-06 | 6.77E-07 | 9.79E-06 | 6.08E-06 | 6.08E-06 | 3.01E-06 |
| 1180 | 258110.9 | 4084232 | 7.81E-06 | 1.13E-04 | 8.32E-05 | 8.32E-05 | 4.64E-05 | 1.18E-06 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.14E-06 | 6.44E-07 | 9.31E-06 | 5.78E-06 | 5.78E-06 | 2.86E-06 |
| 1181 | 258086.6 | 4084233 | 7.42E-06 | 1.07E-04 | 7.91E-05 | 7.91E-05 | 4.41E-05 | 1.13E-06 | 1.64E-05 | 1.24E-06 | 1.24E-05 | 6.79E-06 | 6.12E-07 | 8.85E-06 | 5.50E-06 | 5.50E-06 | 2.72E-06 |
| 1182 | 258062.3 | 4084234 | 7.06E-06 | 1.02E-04 | 7.52E-05 | 7.52E-05 | 4.19E-05 | 1.07E-06 | 1.55E-05 | 1.17E-05 | 1.17E-06 | 6.46E-06 | 5.82E-07 | 8.41E-06 | 5.22E-06 | 5.22E-06 | 2.59E-06 |
| 1183 | 258037.9 | 4084235 | 6.71E-06 | 9.71E-05 | 7.15E-05 | 7.15E-05 | 3.99E-05 | 1.02E-06 | 1.48E-05 | 1.12E-06 | 1.12E-05 | 6.14E-06 | 5.53E-07 | 8.00E-06 | 4.97E-06 | 4.97E-06 | 2.46E-06 |
| 1184 | 258013.6 | 4084236 | 6.39E-06 | 9.24E-05 | 6.81E-05 | 6.81E-05 | 3.80E-05 | 9.69E-07 | 1.41E-05 | 1.06E-05 | 1.06E-05 | 5.84E-06 | 5.26E-07 | 7.61E-06 | 4.73E-06 | 4.73E-06 | 2.34E-06 |
| 1185 | 257989.3 | 4084237 | 6.09E-06 | 8.80E-05 | 6.49E-06 | 6.49E-05 | 3.62E-05 | 9.24E-07 | 1.34E-05 | 1.01E-05 | 1.01E-05 | 5.57E-06 | 5.02E-07 | 7.26E-06 | 4.51E-06 | 4.51E-06 | 2.23E-06 |
| 1186 | 257965 | 4084238 | 5.81E-06 | 8.40E-05 | 6.19E-05 | 6.19E-06 | 3.45E-05 | 8.81E-07 | 1.28E-06 | 9.66E-06 | 9.66E-06 | 5.31E-06 | 4.79E-07 | 6.92E-06 | 4.30E-06 | 4.30E-06 | 2.13E-06 |
| 1187 | 257940.6 | 4084239 | 5.54E-06 | 8.02E-05 | 5.91E-05 | 5.91E-06 | 3.29E-05 | 8.41E-07 | 1.22E-06 | 9.23E-06 | 9.23E-06 | 5.07E-06 | 4.57E-07 | 6.61E-06 | 4.10E-06 | 4.10E-06 | 2.03E-06 |
| 1188 | 257916.3 | 4084240 | 5.30E-06 | 7.66E-05 | 5.65E-05 | 5.65E-05 | 3.15E-05 | 8.04E-07 | 1.17E-05 | 8.82E-06 | 8.82E-06 | 4.85E-06 | 4.37E-07 | 6.32E-06 | 3.92E-06 | 3.92E-06 | 1.94E-06 |
| 1189 | 257892 | 4084241 | 5.07E-06 | 7.34E-06 | 5.41E-06 | 5.41E-05 | 3.02E-05 | 7.70E-07 | 1.12E-06 | 8.44E-06 | 8.44E-06 | 4.64E-06 | 4.18E-07 | 6.05E-06 | 3.76E-06 | 3.76E-06 | 1.86E-06 |
| 1190 | 257867.6 | 4084242 | 4.86E-06 | 7.04E-05 | 5.19E-05 | 5.19E-05 | 2.89E-05 | 7.38E-07 | 1.07E-05 | 8.10E-06 | 8.10E-06 | 4.45E-06 | 4.01E-07 | 5.80E-06 | 3.60E-06 | 3.60E-06 | 1.78E-06 |
| 1191 | 257843.3 | 4084243 | 4.67E-06 | 6.76E-05 | 4.98E-05 | 4.98E-05 | 2.78E-05 | 7.09E-07 | 1.03E-05 | 7.78E-06 | 7.78E-06 | 4.28E-06 | 3.85E-07 | 5.57E-06 | 3.46E-06 | 3.46E-06 | 1.71E-06 |
| 1192 | 257819 | 4084244 | 4.50E-06 | 6.50E-05 | 4.79E-06 | 4.79E-05 | 2.67E-05 | 6.82E-07 | 9.91E-06 | 7.48E-06 | 7.48E-06 | 4.11E-06 | 3.71E-07 | 5.36E-06 | 3.33E-06 | 3.33E-06 | 1.65E-06 |
| 1193 | 257794.6 | 4084245 | 4.33E-06 | 6.26E-05 | 4.62E-05 | 4.62E-05 | 2.57E-05 | 6.57E-07 | 9.54E-06 | 7.21E-06 | 7.21E-06 | 3.96E-06 | 3.57E-07 | 5.16E-06 | 3.21E-06 | 3.21E-06 | 1.59E-06 |
| 1194 | 257770.3 | 4084246 | 4.18E-06 | 6.04E-05 | 4.45E-05 | 4.45E-06 | 2.48E-05 | 6.34E-07 | 9.20E-06 | 6.95E-06 | 6.95E-06 | 3.82E-06 | 3.44E-07 | 4.98E-06 | 3.09E-06 | 3.09E-06 | 1.53E-06 |
| 1195 | 257746 | 4084247 | 4.03E-06 | 5.83E-05 | 4.30E-05 | 4.30E-05 | 2.40E-06 | 6.12E-07 | 8.89E-06 | 6.71E-06 | 6.71E-06 | 3.69E-06 | 3.32E-07 | 4.81E-06 | 2.99E-06 | 2.99E-06 | 1.48E-06 |
| 1196 | 257721.6 | 4084248 | 3.90E-06 | 5.64E-05 | 4.15E-06 | 4.15E-05 | 2.32E-06 | 5.92E-07 | 8.59E-06 | 6.49E-06 | 6.49E-06 | 3.57E-06 | 3.21E-07 | 4.65E-06 | 2.89E-06 | 2.89E-06 | 1.43E-06 |
| 1197 | 257697.3 | 4084249 | 3.77E-06 | 5.45E-05 | 4.02E-05 | 4.02E-05 | 2.24E-06 | 5.72E-07 | 8.31E-06 | 6.28E-06 | 6.28E-06 | 3.45E-06 | 3.11E-07 | 4.50E-06 | 2.79E-06 | 2.79E-06 | 1.38E-06 |
| 1198 | 257673 | 4084250 | 3.65E-06 | 5.28E-05 | 3.89E-05 | 3.89E-05 | 2.17E-05 | 5.54E-07 | 8.05E-06 | 6.03E-06 | 6.03E-06 | 3.34E-06 | 3.01E-07 | 4.36E-06 | 2.71E-06 | 2.71E-06 | 1.34E-06 |
| 1199 | 257648.6 | 4084251 | 3.54E-06 | 5.12E-05 | 3.77E-05 | 3.77E-05 | 2.10E-06 | 5.37E-07 | 7.80E-06 | 5.89E-06 | 5.89E-06 | 3.24E-06 | 2.92E-07 | 4.22E-06 | 2.62E-06 | 2.62E-06 | 1.30E-06 |
| 1200 | 257624.3 | 4084252 | 3.44E-06 | 4.97E-05 | 3.66E-05 | 3.66E-05 | 2.04E-05 | 5.22E-07 | 7.57E-06 | 5.72E-06 | 5.72E-06 | 3.14E-06 | 2.83E-07 | 4.10E-06 | 2.54E-06 | 2.54E-06 | 1.26E-06 |
| 1201 | 257600 | 4084253 | 3.34E-06 | 4.82E-05 | 3.56E-05 | 3.56E-05 | 1.98E-05 | 5.06E-07 | 7.35E-06 | 5.55E-06 | 5.55E-06 | 3.05E-06 | 2.75E-07 | 3.98E-06 | 2.47E-06 | 2.47E-06 | 1.22E-06 |
| 1202 | 257575.6 | 4084254 | 3.24E-06 | 4.69E-05 | 3.46E-05 | 3.46E-05 | 1.93E-06 | 4.92E-07 | 7.14E-06 | 5.40E-06 | 5.40E-06 | 2.97E-06 | 2.67E-07 | 3.86E-06 | 2.40E-06 | 2.40E-06 | 1.19E-06 |
| 1203 | 257551.3 | 4084255 | 3.15E-06 | 4.56E-06 | 3.36E-06 | 3.36E-05 | 1.87E-05 | 4.79E-07 | 6.95E-06 | 5.25E-06 | 5.25E-06 | 2.89E-06 | 2.60E-07 | 3.76E-06 | 2.34E-06 | 2.34E-06 | 1.16E-06 |
| 1204 | 257527 | 4084256 | 3.07E-06 | 4.44E-06 | 3.27E-06 | 3.27E-06 | 1.82E-06 | 4.66E-07 | 6.76E-06 | 5.11E-06 | 5.11E-06 | 2.81E-06 | 2.53E-07 | 3.66E-06 | 2.27E-06 | 2.27E-06 | 1.13E-06 |
| 1205 | 258344.2 | 4084031 | 6.51E-06 | 9.41E-06 | 6.94E-06 | 6.94E-05 | 3.87E-05 | 9.87E-07 | 1.43E-05 | 1.08E-05 | 1.08E-05 | 5.95E-06 | 5.36E-07 | 7.76E-06 | 4.82E-06 | 4.82E-06 | 2.38E-06 |
| 1206 | 258366.6 | 4084039 | 6.93E-06 | 1.00E-04 | 7.39E-05 | 7.39E-05 | 4.12E-05 | 1.05E-06 | 1.53E-05 | 1.15E-05 | 1.15E-05 | 6.34E-06 | 5.71E-07 | 8.26E-06 | 5.13E-06 | 5.13E-06 | 2.54E-06 |
| 1207 | 258389 | 4084048 | 7.38E-06 | 1.07E-04 | 7.87E-05 | 7.87E-05 | 4.39E-05 | 1.12E-06 | 1.63E-05 | 1.23E-06 | 1.23E-06 | 6.75E-06 | 6.08E-07 | 8.80E-06 | 5.47E-06 | 5.47E-06 | 2.71E-06 |
| 1208 | 258411.5 | 4084056 | 7.86E-06 | 1.14E-04 | 8.38E-06 | 8.38E-05 | 4.67E-05 | 1.19E-06 | 1.73E-05 | 1.31E-06 | 1.31E-05 | 7.19E-06 | 6.48E-07 | 9.37E-06 | 5.82E-06 | 5.82E-06 | 2.88E-06 |
| 1209 | 258433.9 | 4084064 | 8.37E-06 | 1.21E-04 | 8.93E-05 | 8.93E-05 | 4.98E-05 | 1.27E-06 | 1.84E-05 | 1.39E-05 | 1.39E-06 | 7.66E-06 | 6.90E-07 | 9.98E-06 | 6.20E-06 | 6.20E-06 | 3.07E-06 |
| 1210 | 258456.3 | 4084073 | 8.91E-06 | 1.29E-04 | 9.50E-06 | 9.50E-06 | 5.30E-05 | 1.35E-06 | 1.96E-05 | 1.48E-06 | 1.48E-06 | 8.15E-06 | 7.34E-07 | 1.06E-05 | 6.60E-06 | 6.60E-06 | 3.27E-06 |
| 1211 | 258478.8 | 4084081 | 9.47E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.63E-06 | 1.44E-06 | 2.09E-06 | 1.58E-05 | 1.58E-05 | 8.67E-06 | 7.81E-07 | 1.13E-05 | 7.01E-06 | 7.01E-06 | 3.47E-06 |
| 1212 | 258501.2 | 4084089 | 1.01E-05 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.98E-06 | 1.53E-06 | 2.22E-05 | 1.67E-05 | 1.67E-05 | 9.20E-06 | 8.29E-07 | 1.20E-05 | 7.45E-06 | 7.45E-06 | 3.69E-06 |
| 1213 | 258523.6 | 4084098 | 1.07E-06 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.34E-06 | 1.62E-06 | 2.35E-05 | 1.77E-05 | 1.77E-05 | 9.75E-06 | 8.79E-07 | 1.27E-05 | 7.89E-06 | 7.89E-06 | 3.91E-06 |
| 1214 | 258546.1 | 4084106 | 1.13E-05 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.70E-05 | 1.71E-06 | 2.49E-06 | 1.88E-05 | 1.88E-06 | 1.03E-06 | 9.30E-07 | 1.34E-05 | 8.35E-06 | 8.35E-06 | 4.13E-06 |
| 1215 | 258568.5 | 4084114 | 1.19E-05 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.08E-05 | 1.81E-06 | 2.63E-05 | 1.98E-05 | 1.98E-05 | 1.09E-05 | 9.82E-07 | 1.42E-05 | 8.82E-06 | 8.82E-06 | 4.37E-06 |
| 1216 | 258590.9 | 4084123 | 1.26E-05 | 1.82E-04 | 1.34E-04 | 1.34E-04 | 7.46E-05 | 1.91E-06 | 2.77E-05 | 2.09E-05 | 2.09E-05 | 1.15E-05 | 1.04E-06 | 1.50E-05 | 9.30E-06 | 9.30E-06 | 4.60E-06 |
| 1217 | 258613.4 | 4084131 | 1.32E-05 | 1.91E-04 | 1.41E-04 | 1.41E-04 | 7.85E-05 | 2.00E-06 | 2.91E-05 | 2.20E-06 | 2.20E-05 | 1.21E-05 | 1.09E-06 | 1.57E-06 | 9.78E-06 | 9.78E-06 | 4.84E-06 |
| 1218 | 258635.8 | 4084139 | 1.39E-06 | 2.00E-04 | 1.48E-04 | 1.48E-04 | 8.23E-05 | 2.10E-06 | 3.05E-05 | 2.31E-05 | 2.31E-05 | 1.27E-06 | 1.14E-06 | 1.65E-06 | 1.03E-06 | 1.03E-05 | 5.08E-06 |
| 1219 | 258658.2 | 4084147 | 1.45E-06 | 2.10E-04 | 1.55E-04 | 1.55E-04 | 8.62E-05 | 2.20E-06 | 3.19E-05 | 2.41E-06 | 2.41E-06 | 1.33E-06 | 1.20E-06 | 1.73E-06 | 1.07E-05 | 1.07E-06 | 5.32E-06 |
| 1220 | 258680.7 | 4084156 | 1.51E-05 | 2.19E-04 | 1.61E-04 | 1.61E-04 | 9.00E-05 | 2.30E-06 | 3.34E-05 | 2.52E-05 | 2.52E-05 | 1.39E-05 | 1.25E-06 | 1.80E-06 | 1.12E-05 | 1.12E-06 | 5.55E-06 |
| 1221 | 258703.1 | 4084164 | 1.58E-05 | 2.28E-04 | 1.68E-04 | 1.68E-04 | 9.37E-05 | 2.39E-06 | 3.47E-05 | 2.62E-05 | 2.62E-05 | 1.44E-05 | 1.30E-06 | 1.88E-05 | 1.17E-05 | 1.17E-05 | 5.78E-06 |
| 1222 | 258725.5 | 4084172 | 1.64E-05 | 2.37E-04 | 1.75E-04 | 1.75E-04 | 9.73E-05 | 2.48E-06 | 3.61E-05 | 2.72E-05 | 2.72E-05 | 1.50E-05 | 1.35E-06 | 1.95E-05 | 1.21E-05 | 1.21E-05 | 6.00E-06 |
| 1223 | 258748 | 4084181 | 1.70E-05 | 2.45E-04 | 1.81E-04 | 1.81E-04 | 1.01E-04 | 2.57E-06 | 3.74E-05 | 2.82E-05 | 2.82E-05 | 1.55E-05 | 1.40E-06 | 2.02E-05 | 1.26E-05 | 1.26E-06 | 6.22E-06 |
| 1224 | 258770.4 | 4084189 | 1.75E-05 | 2.53E-04 | 1.87E-04 | 1.87E-04 | 1.04E-04 | 2.66E-06 | 3.86E-05 | 2.92E-05 | 2.92E-05 | 1.60E-05 | 1.44E-06 | 2.09E-05 | 1.30E-06 | 1.30E-05 | 6.42E-06 |
| 1225 | 258792.9 | 4084197 | 1.80E-05 | 2.61E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.74E-06 | 3.98E-05 | 3.00E-05 | 3.00E-05 | 1.65E-05 | 1.49E-06 | 2.15E-05 | 1.34E-05 | 1.34E-06 | 6.62E-06 |
| 1226 | 258815.3 | 4084206 | 1.85E-05 | 2.68E-04 | 1.98E-04 | 1.98E-04 | 1.10E-04 | 2.81E-06 | 4.09E-05 | 3.09E-05 | 3.09E-05 | 1.70E-05 | 1.53E-06 | 2.21E-05 | 1.37E-05 | 1.37E-05 | 6.80E-06 |
| 1227 | 258837.7 | 4084214 | 1.90E-05 | 2.75E-04 | 2.02E-04 | 2.02E-04 | 1.13E-04 | 2.88E-06 | 4.19E-05 | 3.16E-05 | 3.16E-05 | 1.74E-05 | 1.57E-06 | 2.26E-05 | 1.41E-05 | 1.41E-05 | 6.96E-06 |
| 1228 | 258860.2 | 4084222 | 1.94E-05 | 2.80E-04 | 2.07E-04 | 2.07E-04 | 1.15E-04 | 2.94E-06 | 4.27E-05 | 3.23E-05 | 3.23E-05 | 1.77E-05 | 1.60E-06 | 2.31E-06 | 1.44E-06 | 1.44E-05 | 7.11E-06 |
| 1229 | 258882.6 | 4084230 | 1.97E-05 | 2.85E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 2.99E-06 | 4.35E-05 | 3.28E-05 | 3.28E-06 | 1.80E-05 | 1.63E-06 | 2.35E-06 | 1.46E-06 | 1.46E-05 | 7.23E-06 |
| 1230 | 258905 | 4084239 | 2.00E-05 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.04E-06 | 4.41E-05 | 3.33E-05 | 3.33E-05 | 1.83E-05 | 1.65E-06 | 2.39E-05 | 1.48E-06 | 1.48E-05 | 7.34E-06 |
| 1231 | 258927.5 | 4084247 | 2.02E-05 | 2.93E-04 | 2.16E-04 | 2.16E-04 | 1.20E-04 | 3.07E-06 | 4.46E-05 | 3.37E-05 | 3.37E-05 | 1.85E-05 | 1.67E-06 | 2.41E-05 | 1.50E-05 | 1.50E-05 | 7.42E-06 |
| 1232 | 258949.9 | 4084255 | 2.04E-05 | 2.95E-04 | 2.17E-04 | 2.17E-04 | 1.21E-04 | 3.09E-06 | 4.49E-05 | 3.39E-05 | 3.39E-05 | 1.86E-05 | 1.68E-06 | 2.43E-05

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 924 | 257786.7 | 4084645 | 2.11E-05 | 3.06E-04 | 2.25E-04 | 2.25E-04 | 1.26E-04 | 3.21E-06 | 4.65E-06 | 3.52E-05 | 3.52E-06 | 1.93E-06 | 1.74E-06 | 2.52E-05 | 1.56E-05 | 1.56E-05 | 7.74E-06 |
| 925 | 257762.4 | 4084646 | 1.92E-05 | 2.78E-04 | 2.05E-04 | 2.05E-04 | 1.14E-04 | 2.91E-06 | 4.23E-06 | 3.19E-05 | 3.19E-05 | 1.76E-05 | 1.58E-06 | 2.29E-05 | 1.42E-05 | 1.42E-05 | 7.04E-06 |
| 926 | 257738.1 | 4084647 | 1.75E-06 | 2.52E-04 | 1.86E-04 | 1.86E-04 | 1.04E-04 | 2.65E-06 | 3.85E-05 | 2.91E-06 | 2.91E-05 | 1.60E-05 | 1.44E-06 | 2.08E-05 | 1.29E-05 | 1.29E-05 | 6.40E-06 |
| 927 | 257713.7 | 4084648 | 1.59E-05 | 2.30E-04 | 1.70E-04 | 1.70E-04 | 9.46E-05 | 2.41E-06 | 3.51E-05 | 2.65E-05 | 2.65E-05 | 1.46E-05 | 1.31E-06 | 1.90E-05 | 1.18E-05 | 1.18E-05 | 5.83E-06 |
| 928 | 257689.4 | 4084649 | 1.45E-05 | 2.10E-04 | 1.55E-04 | 1.55E-04 | 8.65E-05 | 2.21E-06 | 3.21E-05 | 2.42E-05 | 2.42E-05 | 1.33E-06 | 1.20E-06 | 1.73E-05 | 1.08E-05 | 1.08E-05 | 5.33E-06 |
| 929 | 257665.1 | 4084650 | 1.34E-05 | 1.93E-04 | 1.42E-04 | 1.42E-04 | 7.94E-05 | 2.03E-06 | 2.94E-05 | 2.22E-05 | 2.22E-05 | 1.22E-05 | 1.10E-06 | 1.59E-05 | 9.89E-06 | 9.89E-06 | 4.90E-06 |
| 930 | 257640.7 | 4084651 | 1.23E-06 | 1.78E-04 | 1.31E-04 | 1.31E-04 | 7.33E-05 | 1.87E-06 | 2.72E-05 | 2.05E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.13E-06 | 9.13E-06 | 4.52E-06 |
| 931 | 257616.4 | 4084652 | 1.14E-05 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.79E-05 | 1.73E-06 | 2.52E-06 | 1.90E-05 | 1.90E-05 | 1.05E-05 | 9.42E-07 | 1.36E-05 | 8.46E-06 | 8.46E-06 | 4.19E-06 |
| 932 | 257592.1 | 4084653 | 1.06E-05 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.33E-06 | 1.62E-06 | 2.35E-05 | 1.77E-05 | 1.77E-05 | 9.74E-06 | 8.78E-07 | 1.27E-05 | 7.88E-06 | 7.88E-06 | 3.90E-06 |
| 933 | 257567.7 | 4084654 | 9.96E-06 | 1.44E-04 | 1.06E-04 | 1.06E-04 | 5.92E-06 | 1.51E-06 | 2.19E-06 | 1.66E-05 | 1.66E-05 | 9.11E-06 | 8.21E-07 | 1.19E-05 | 7.37E-06 | 7.37E-06 | 3.65E-06 |
| 934 | 257543.4 | 4084655 | 9.35E-06 | 1.35E-04 | 9.97E-06 | 9.97E-06 | 5.56E-05 | 1.42E-06 | 2.06E-05 | 1.56E-05 | 1.56E-05 | 8.55E-06 | 7.71E-07 | 1.11E-05 | 6.92E-06 | 6.92E-06 | 3.43E-06 |
| 935 | 258364.5 | 4084531 | 4.36E-05 | 6.31E-04 | 4.65E-04 | 4.65E-04 | 2.59E-04 | 6.62E-06 | 9.61E-05 | 7.26E-05 | 7.26E-05 | 3.99E-05 | 3.60E-06 | 5.20E-05 | 3.23E-05 | 3.23E-05 | 1.60E-05 |
| 936 | 258386.7 | 4084539 | 4.60E-05 | 6.66E-04 | 4.91E-04 | 4.91E-04 | 2.73E-04 | 6.98E-06 | 1.01E-04 | 7.66E-05 | 7.66E-05 | 4.21E-05 | 3.79E-06 | 5.49E-05 | 3.41E-05 | 3.41E-05 | 1.69E-05 |
| 937 | 258409 | 4084547 | 4.84E-05 | 7.00E-04 | 5.16E-04 | 5.16E-04 | 2.87E-04 | 7.34E-06 | 1.07E-04 | 8.06E-05 | 8.05E-05 | 4.43E-05 | 3.99E-06 | 5.77E-05 | 3.58E-05 | 3.58E-05 | 1.77E-05 |
| 938 | 258431.2 | 4084555 | 5.07E-05 | 7.33E-04 | 5.40E-04 | 5.40E-04 | 3.01E-04 | 7.69E-06 | 1.12E-04 | 8.43E-05 | 8.43E-05 | 4.64E-05 | 4.18E-06 | 6.04E-05 | 3.75E-05 | 3.75E-05 | 1.86E-05 |
| 939 | 258453.5 | 4084564 | 5.29E-05 | 7.65E-04 | 5.64E-04 | 5.64E-04 | 3.14E-04 | 8.02E-06 | 1.16E-04 | 8.80E-05 | 8.80E-05 | 4.84E-05 | 4.36E-06 | 6.30E-05 | 3.92E-05 | 3.92E-05 | 1.94E-06 |
| 940 | 258475.7 | 4084572 | 5.49E-05 | 7.95E-04 | 5.86E-04 | 5.86E-04 | 3.27E-04 | 8.34E-06 | 1.21E-04 | 9.15E-05 | 9.15E-05 | 5.03E-05 | 4.53E-06 | 6.55E-05 | 4.07E-05 | 4.07E-05 | 2.01E-05 |
| 941 | 258498 | 4084580 | 5.68E-05 | 8.22E-04 | 6.06E-04 | 6.06E-04 | 3.38E-04 | 8.63E-06 | 1.25E-04 | 9.46E-05 | 9.46E-05 | 5.20E-05 | 4.69E-06 | 6.78E-05 | 4.21E-05 | 4.21E-05 | 2.08E-05 |
| 942 | 258520.2 | 4084588 | 5.85E-05 | 8.46E-04 | 6.24E-04 | 6.24E-04 | 3.48E-04 | 8.88E-06 | 1.29E-04 | 9.74E-05 | 9.74E-05 | 5.36E-05 | 4.82E-06 | 6.98E-05 | 4.33E-05 | 4.33E-05 | 2.15E-05 |
| 943 | 258542.4 | 4084597 | 5.99E-05 | 8.67E-04 | 6.39E-04 | 6.39E-04 | 3.56E-04 | 9.09E-06 | 1.32E-04 | 9.97E-05 | 9.97E-05 | 5.48E-05 | 4.94E-06 | 7.14E-05 | 4.44E-05 | 4.44E-05 | 2.20E-05 |
| 944 | 258564.7 | 4084605 | 6.10E-05 | 8.82E-04 | 6.50E-04 | 6.50E-04 | 3.62E-04 | 9.25E-06 | 1.34E-04 | 1.01E-04 | 1.01E-04 | 5.58E-05 | 5.03E-06 | 7.27E-05 | 4.52E-05 | 4.52E-05 | 2.24E-05 |
| 945 | 258586.9 | 4084613 | 6.16E-05 | 8.91E-04 | 6.57E-04 | 6.57E-04 | 3.66E-04 | 9.35E-06 | 1.36E-04 | 1.03E-04 | 1.03E-04 | 5.64E-05 | 5.08E-06 | 7.35E-05 | 4.56E-05 | 4.56E-05 | 2.26E-05 |
| 946 | 258609.2 | 4084621 | 6.18E-05 | 8.94E-04 | 6.59E-04 | 6.59E-04 | 3.67E-04 | 9.38E-06 | 1.36E-04 | 1.03E-04 | 1.03E-04 | 5.65E-05 | 5.09E-06 | 7.37E-05 | 4.58E-06 | 4.58E-05 | 2.26E-05 |
| 947 | 258641.2 | 4084651 | 6.41E-05 | 9.27E-04 | 6.83E-04 | 6.83E-04 | 3.81E-04 | 9.72E-06 | 1.41E-04 | 1.07E-04 | 1.07E-04 | 5.86E-05 | 5.28E-06 | 7.64E-05 | 4.74E-05 | 4.74E-05 | 2.35E-05 |
| 948 | 258651 | 4084673 | 6.62E-05 | 9.57E-04 | 7.06E-04 | 7.06E-04 | 3.93E-04 | 1.00E-05 | 1.46E-04 | 1.10E-04 | 1.10E-04 | 6.06E-06 | 5.46E-06 | 7.89E-05 | 4.90E-05 | 4.90E-05 | 2.43E-05 |
| 949 | 258660.7 | 4084694 | 6.76E-05 | 9.77E-04 | 7.20E-04 | 7.20E-04 | 4.02E-04 | 1.03E-05 | 1.49E-04 | 1.12E-04 | 1.12E-04 | 6.18E-05 | 5.57E-06 | 8.05E-05 | 5.00E-05 | 5.00E-05 | 2.48E-05 |
| 950 | 258670.5 | 4084716 | 6.81E-05 | 9.85E-04 | 7.26E-04 | 7.26E-04 | 4.05E-04 | 1.03E-05 | 1.50E-04 | 1.13E-04 | 1.13E-04 | 6.23E-05 | 5.61E-06 | 8.12E-05 | 5.04E-05 | 5.04E-05 | 2.50E-05 |
| 951 | 258680.3 | 4084738 | 6.79E-05 | 9.82E-04 | 7.24E-04 | 7.24E-04 | 4.04E-04 | 1.03E-05 | 1.50E-04 | 1.13E-04 | 1.13E-04 | 6.21E-05 | 5.60E-06 | 8.10E-05 | 5.03E-05 | 5.03E-05 | 2.49E-05 |
| 952 | 258690.1 | 4084759 | 6.68E-05 | 9.66E-04 | 7.12E-04 | 7.12E-04 | 3.97E-04 | 1.01E-05 | 1.47E-04 | 1.11E-04 | 1.11E-04 | 6.11E-05 | 5.51E-06 | 7.96E-05 | 4.95E-05 | 4.95E-05 | 2.45E-05 |
| 953 | 258699.9 | 4084781 | 6.48E-05 | 9.37E-04 | 6.91E-04 | 6.91E-04 | 3.85E-04 | 9.83E-06 | 1.43E-04 | 1.08E-04 | 1.08E-04 | 5.93E-05 | 5.34E-06 | 7.72E-05 | 4.80E-05 | 4.80E-05 | 2.38E-05 |
| 954 | 258709.6 | 4084802 | 6.20E-05 | 8.97E-04 | 6.61E-04 | 6.61E-04 | 3.69E-04 | 9.41E-06 | 1.37E-04 | 1.03E-04 | 1.03E-04 | 5.67E-05 | 5.11E-06 | 7.39E-05 | 4.59E-05 | 4.59E-05 | 2.27E-05 |
| 955 | 258719.4 | 4084824 | 5.86E-05 | 8.47E-04 | 6.25E-04 | 6.25E-04 | 3.48E-04 | 8.89E-06 | 1.29E-04 | 9.75E-05 | 9.75E-05 | 5.36E-05 | 4.83E-06 | 6.99E-05 | 4.34E-05 | 4.34E-05 | 2.15E-05 |
| 956 | 258729.2 | 4084846 | 5.47E-05 | 7.92E-04 | 5.83E-04 | 5.83E-04 | 3.25E-04 | 8.31E-06 | 1.21E-04 | 9.11E-06 | 9.11E-05 | 5.01E-05 | 4.51E-06 | 6.52E-05 | 4.05E-05 | 4.05E-05 | 2.01E-05 |
| 957 | 258739 | 4084867 | 5.06E-05 | 7.32E-04 | 5.40E-04 | 5.40E-04 | 3.01E-04 | 7.68E-06 | 1.12E-04 | 8.43E-05 | 8.43E-05 | 4.63E-05 | 4.17E-06 | 6.03E-05 | 3.75E-05 | 3.75E-05 | 1.86E-05 |
| 958 | 258748.7 | 4084889 | 4.65E-05 | 6.72E-04 | 4.95E-04 | 4.95E-04 | 2.76E-04 | 7.05E-06 | 1.02E-04 | 7.73E-05 | 7.73E-05 | 4.25E-05 | 3.83E-06 | 5.54E-05 | 3.44E-05 | 3.44E-05 | 1.70E-05 |
| 959 | 258342.3 | 4084522 | 4.12E-05 | 5.97E-04 | 4.40E-04 | 4.40E-04 | 2.45E-04 | 6.26E-06 | 9.09E-05 | 6.86E-05 | 6.86E-05 | 3.77E-05 | 3.40E-06 | 4.92E-05 | 3.05E-05 | 3.05E-05 | 1.51E-05 |
| 960 | 258317.9 | 4084523 | 4.04E-05 | 5.84E-04 | 4.31E-04 | 4.31E-04 | 2.40E-04 | 6.13E-06 | 8.90E-05 | 6.73E-05 | 6.73E-05 | 3.70E-05 | 3.33E-06 | 4.82E-05 | 2.99E-05 | 2.99E-05 | 1.48E-06 |
| 961 | 258293.6 | 4084524 | 3.95E-05 | 5.71E-04 | 4.21E-04 | 4.21E-04 | 2.35E-04 | 5.99E-06 | 8.70E-05 | 6.57E-05 | 6.57E-06 | 3.61E-05 | 3.25E-06 | 4.71E-05 | 2.92E-05 | 2.92E-05 | 1.45E-05 |
| 962 | 258269.3 | 4084525 | 3.85E-05 | 5.56E-04 | 4.10E-04 | 4.10E-04 | 2.29E-04 | 5.84E-06 | 8.47E-05 | 6.40E-05 | 6.40E-05 | 3.52E-05 | 3.17E-06 | 4.58E-06 | 2.85E-06 | 2.85E-05 | 1.41E-05 |
| 963 | 258244.9 | 4084526 | 3.73E-05 | 5.40E-04 | 3.98E-04 | 3.98E-04 | 2.22E-04 | 5.67E-06 | 8.23E-05 | 6.22E-05 | 6.22E-05 | 3.42E-05 | 3.08E-06 | 4.45E-05 | 2.77E-05 | 2.77E-05 | 1.37E-05 |
| 964 | 258220.6 | 4084527 | 3.61E-05 | 5.23E-04 | 3.85E-04 | 3.85E-04 | 2.15E-04 | 5.49E-06 | 7.97E-05 | 6.02E-05 | 6.02E-05 | 3.31E-05 | 2.98E-06 | 4.31E-05 | 2.68E-05 | 2.68E-05 | 1.33E-05 |
| 965 | 258196.3 | 4084528 | 3.49E-05 | 5.04E-04 | 3.72E-04 | 3.72E-04 | 2.07E-04 | 5.29E-06 | 7.69E-05 | 5.81E-05 | 5.81E-05 | 3.19E-05 | 2.88E-06 | 4.16E-06 | 2.58E-05 | 2.58E-05 | 1.28E-06 |
| 966 | 258171.9 | 4084529 | 3.35E-05 | 4.85E-04 | 3.58E-04 | 3.58E-04 | 1.99E-04 | 5.09E-06 | 7.39E-05 | 5.58E-05 | 5.58E-05 | 3.07E-05 | 2.77E-06 | 4.00E-05 | 2.48E-05 | 2.48E-05 | 1.23E-05 |
| 967 | 258147.6 | 4084530 | 3.22E-05 | 4.65E-04 | 3.43E-04 | 3.43E-04 | 1.91E-04 | 4.88E-06 | 7.08E-05 | 5.35E-05 | 5.35E-05 | 2.94E-05 | 2.65E-06 | 3.83E-05 | 2.38E-06 | 2.38E-06 | 1.18E-05 |
| 968 | 258123.3 | 4084531 | 3.07E-05 | 4.44E-04 | 3.27E-04 | 3.27E-04 | 1.83E-04 | 4.66E-06 | 6.77E-05 | 5.11E-05 | 5.11E-05 | 2.81E-05 | 2.53E-06 | 3.66E-05 | 2.27E-05 | 2.27E-06 | 1.13E-05 |
| 969 | 258098.9 | 4084532 | 2.92E-05 | 4.23E-04 | 3.12E-04 | 3.12E-04 | 1.74E-04 | 4.44E-06 | 6.44E-05 | 4.87E-05 | 4.87E-05 | 2.68E-05 | 2.41E-06 | 3.49E-05 | 2.17E-05 | 2.17E-05 | 1.07E-05 |
| 970 | 258074.6 | 4084533 | 2.77E-05 | 4.01E-04 | 2.96E-04 | 2.96E-04 | 1.65E-04 | 4.21E-06 | 6.11E-05 | 4.61E-05 | 4.61E-05 | 2.54E-05 | 2.29E-06 | 3.31E-05 | 2.05E-05 | 2.05E-05 | 1.02E-05 |
| 971 | 258050.3 | 4084534 | 2.62E-05 | 3.79E-04 | 2.79E-04 | 2.79E-04 | 1.56E-04 | 3.98E-06 | 5.77E-05 | 4.36E-05 | 4.36E-05 | 2.40E-06 | 2.16E-06 | 3.12E-05 | 1.94E-05 | 1.94E-05 | 9.60E-06 |
| 972 | 258025.9 | 4084535 | 2.47E-05 | 3.57E-04 | 2.63E-04 | 2.63E-04 | 1.47E-04 | 3.74E-06 | 5.43E-05 | 4.10E-05 | 4.10E-05 | 2.26E-05 | 2.03E-06 | 2.94E-05 | 1.83E-05 | 1.83E-05 | 9.04E-06 |
| 973 | 258001.6 | 4084536 | 2.31E-05 | 3.35E-04 | 2.47E-04 | 2.47E-04 | 1.37E-04 | 3.51E-06 | 5.10E-05 | 3.85E-05 | 3.85E-05 | 2.12E-05 | 1.91E-06 | 2.76E-05 | 1.71E-05 | 1.71E-05 | 8.48E-06 |
| 974 | 257977.3 | 4084537 | 2.16E-05 | 3.13E-04 | 2.30E-04 | 2.30E-04 | 1.28E-04 | 3.28E-06 | 4.76E-05 | 3.60E-05 | 3.60E-05 | 1.98E-05 | 1.78E-06 | 2.58E-05 | 1.60E-05 | 1.60E-05 | 7.92E-06 |
| 975 | 257952.9 | 4084538 | 2.01E-05 | 2.91E-04 | 2.15E-04 | 2.15E-04 | 1.20E-04 | 3.05E-06 | 4.44E-05 | 3.35E-06 | 3.35E-06 | 1.84E-06 | 1.66E-06 | 2.40E-05 | 1.49E-06 | 1.49E-05 | 7.38E-06 |
| 976 | 257928.6 | 4084539 | 1.87E-05 | 2.71E-04 | 2.00E-04 | 2.00E-04 | 1.11E-04 | 2.84E-06 | 4.12E-06 | 3.12E-05 | 3.12E-05 | 1.71E-05 | 1.54E-06 | 2.23E-05 | 1.39E-06 | 1.39E-05 | 6.86E-06 |
| 977 | 257904.3 | 4084540 | 1.74E-05 | 2.51E-04 | 1.85E-04 | 1.85E-04 | 1.03E-04 | 2.64E-06 | 3.83E-05 | 2.89E-05 | 2.89E-05 | 1.59E-05 | 1.43E-06 | 2.07E-05 | 1.29E-05 | 1.29E-05 | 6.37E-06 |
| 978 | 257879.9 | 4084541 | 1.61E-05 | 2.33E-04 | 1.72E-04 | 1.72E-04 | 9.56E-05 | 2.44E-06 | 3.54E-05 | 2.68E-05 | 2.68E-05 | 1.47E-05 | 1.33E-06 | 1.92E-05 | 1.19E-05 | 1.19E-05 | 5.90E-06 |
| 979 | 257855.6 | 4084542 | 1.49E-05 | 2.15E-04 | 1.59E-04 | 1.59E-04 | 8.86E-05 | 2.26E-06 | 3.28E-05 | 2.48E-05 | 2.48E-05 | 1.36E-06 | 1.23E-06 | 1.78E-05 | 1.10E-05 | 1.10E-05 | 5.46E-06 |
| 980 | 257831.3 | 4084543 | 1.38E-05 | 2.00E-04 | 1.47E-04 | 1.47E-04 | 8.20E-05 | 2.10E-06 | 3.04E-05 | 2.30E-05 | 2.30E-05 | 1.26E-05 | 1.14E-06 | 1.65E-05 | 1.02E-05 | 1.02E-05 | 5.06E-06 |
| 981 | 257807 | 4084544 | 1.28E-05 | 1.85E-04 | 1.36E-04 | 1.36E-04 | 7.61E-05 | 1.94E-06 | 2.82E-05 | 2.13E-05 | 2.13E-05 | 1.17E-05 | 1.06E-06 | 1.53E-05 | 9.48E-06 | 9.48E-06 | 4.69E-06 |
| 982 | 257782.6 | 4084545 | 1.19E-05 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.07E-05 | 1.81E-06 | 2.62E-05 | 1.98E-05 | 1.98E-05 | 1.09E-05 | 9.80E-07 | 1.42E-05 | 8.81E-06 | 8.81E-06 | 4.36E-06 |
| 983 | 257758.3 | 4084546 | 1.11E-05 | 1.60E-04 | 1.18E-04 | 1.18E-04 | 6.58E-05 | 1.68E-06 | 2.44E-06 | 1.84E-05 | 1.84E-06 | 1.01E-06 | 9.13E-07 | 1.32E-05 | 8.20E-06 | 8.20E-06 | 4.05E-06 |
| 984 | 257734 | 4084547 | 1.03E-05 | 1.50E-04 | 1.10E-04 | 1.10E-04 | 6.14E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.46E-06 | 8.52E-07 | 1.23E-06 | 7.66E-06 | 7.66E-06 | 3.79E-06 |
| 985 | 257709.6 | 4084548 | 9.68E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.75E-05 | 1.47E-06 | 2.13E-05 | 1.61E-06 | 1.61E-05 | 8.86E-06 | 7.98E-07 | 1.15E-05 | 7.17E-06 | 7.17E-06 | 3.55E-06 |
| 986 | 257685.3 | 4084549 | 9.09E-06 | 1.31E-04 | 9.69E-05 | 9.69E-06 | 5.40E-06 | 1.38E-06 | 2.00E-05 | 1.51E-05 | 1.51E-05 | 8.32E-06 | 7.49E-07 | 1.08E-05 | 6.73E-06 | 6.73E-06 | 3.33E-06 |
| 987 | 257661 | 4084550 | 8.56E-06 | 1.24E-04 | 9.12E-06 | 9.12E-05 | 5.09E-05 | 1.30E-06 | 1.89E-05 | 1.42E-05 | 1.42E-05 | 7.83E-06 | 7.06E-07 | 1.02E-05 | 6.34E-06 | 6.34E-06 | 3.14E-06 |
| 988 | 257636.6 | 4084551 | 8.08E-06 | 1.17E-04 | 8.62E-05 | 8.62E-05 | 4.80E-05 | 1.23E-06 | 1.78E-05 | 1.35E-05 | 1.35E-05 | 7.40E-06 | 6.66E-07 | 9.64E-06 | 5.99E-06 | 5.99E-06 | 2.96E-06 |
| 989 | 257612.3 | 4084552 | 7.66E-06 | 1.11E-04 | 8.16E-05 | 8.16E-05 | 4.55E-06 | 1.16E-06 | 1.69E-05 | 1.27E-05 | 1.27E-05 | 7.01E-06 | 6.31E-07 | 9.13E-06 | 5.67E-06 | 5.67E-06 | 2.81E-06 |
| 990 | 257588 | 4084553 | 7.27E-06 | 1.05E-04 | 7.75E-05 | 7.75E-05 | 4.32E-05 | 1.10E-06 | 1.60E-05 | 1.21E-05 | 1.21E-05 | 6.65E-06 | 5.99E-07 | 8.66E-06 | 5.38E-06 | 5.38E-06 | 2.66E-06 |
| 991 | 257563.6 | 4084554 | 6.91E-06 | 1.00E-04 | 7.37E-05 | 7.37E-05 | 4.11E-05 | 1.05E-06 | 1.52E-05 | 1.15E-05 | 1.15E-05 | 6.32E-06 | 5.70E-07 | 8.24E-06 | 5.12E-06 | 5.12E-06 | 2.53E-06 |
| 992 | 257539.3 | 4084555 | 6.58E-06 | 9.52E-05 | 7.02E-05 | 7.02E-05 | 3.91E-05 | 9.99E-07 | 1.45E-05 | 1.10E-05 | 1.10E-05 | 6.02E-06 | 5.43E-07 | 7.85E-06 | 4.88E-06 | 4.88E-06 | 2.41E-06 |
| 993 | 258360.7 | 4084431 | 2.83E-05 | 4.10E-04 | 3.02E-04 | 3.02E-04 | 1.68E-04 | 4.30E-06 | 6.24E-05 | 4.71E-05 | 4.71E-05 | 2.59E-05 | 2.33E-06 | 3.38E-05 | 2.10E-05 | 2.10E-05 | 1.04E-05 |
| 994 | 258383.3 | 4084439 | 3.01E-05 | 4.38E-04 | 3.21E-04 | 3.21E-04 | 1.79E-04 | 4.57E-06 | 6.64E-05 | 5.01E-05 | 5.01E-05 | 2.76E-05 | 2.48E-06 | 3.59E-05 | 2.23E-05 | 2.23E-05 | 1.10E-05 |
| 995 | 258405.9 | 4084448 | 3.19E-05 | 4.61E-04 | 3.40E-04 | 3.40E-04 | 1.90E-04 | 4.84E-06 | 7.03E-05 | 5.31E-05 | 5.31E-05 | 2.92E-05 | 2.63E-06 | 3.80E-05 | 2.36E-05 | 2.36E-05 | 1.17E-05 |
| 996 | 258428.5 | 4084456 | 3.37E-05 | 4.87E-04 | 3.59E-04 | 3.59E-04 | 2.00E-04 | 5.11E-06 | 7.42E-05 | 5.61E-05 | 5.61E-05 | 3.08E-05 | 2.78E-06 | 4.02E-05 | 2.49E-05 | 2.49E-05 | 1.23E-05 |
| 997 | 258451.1 | 4084464 | 3.54E-05 | 5.12E-04 | 3.78E-04 | 3.78E-04 | 2.10E-04 | 5.37E-06 | 7.80E-05 | 5.89E-05 | 5.89E-05 | 3.24E-05 | 2.92E-06 | 4.22E-05 | 2.62E-05 | 2.62E-05 | 1.30E-05 |
| 998 | 258473.7 | 4084473 | 3.71E-05 | 5.37E-04 | 3.96E-04 | 3.96E-04 | 2.21E-04 | 5.63E-06 | 8.18E-05 | 6.18E-05 | 6.18E-05 | 3.40E-05 | 3.06E-06 | 4.43E-05 | 2.75E-06 | 2.75E-05 | 1.36E-06 |
| 999 | 258496.3 | 4084481 | 3.88E-06 | 5.61E-04 | 4.13E-04 | 4.13E-04 | 2.30E-04 | 5.88E-06 | 8.54E-05 | 6.45E-05 | 6.45E-05 | 3.55E-05 | 3.20E-06 | 4.62E-05 | 2.87E-05 | 2.87E-05 | 1.42E-05 |
| 1000 | 258518.9 | 4084489 | 4.03E-05 | 5.83E-04 | 4.30E-04 | 4.30E-04 | 2.40E-04 | 6.12E-06 | 8.89E-05 | 6.71E-05 | 6.71E-05 | 3.69E-05 | 3.33E-06 | 4.81E-05 | 2.99E-05 | 2.99E-05 | 1.48E-05 |
| 1001 | 258541.5 | 4084498 | 4.18E-05 | 6.05E-04 | 4.46E-04 | 4.46E-04 | 2.48E-04 | 6.34E-06 | 9.21E-05 | 6.96E-05 | 6.96E-05 | 3.83E-05 | 3.45E-06 | 4.98E-05 | 3.10E-05 | 3.10E-05 | 1.53E-05 |
| 1002 | 258564.1 | 4084506 | 4.31E-05 | 6.24E-04 | 4.60E-04 | 4.60E-04 | 2.56E-04 | 6.55E-06 | 9.50E-05 | 7.18E-05 | 7.18E-05 | 3.95E-05 | 3.56E-06 | 5.14E-06 | 3.19E-05 | 3.19E-05 | 1.58E-05 |
| 1003 | 258586.6 | 4084514 | 4.43E-05 | 6.41E-04 | 4.72E-04 | 4.72E-04 | 2.63E-04 | 6.72E-06 | 9.76E-05 | 7.37E-05 | 7.37E-05 | 4.05E-05 | 3.65E-06 | 5.28E-05 | 3.28E-05 | 3.28E-06 | 1.62E-05 |
| 1004 | 258609.2 | 4084523 | 4.52E-06 | 6.54E-04 | 4.82E-04 | 4.82E-04 | 2.69E-04 | 6.87E-06 | 9.97E-05 | 7.53E-05 | 7.53E-06 | 4.14E-05 | 3.73E-06 | 5.39E-06 | 3.35E-05 | 3.35E-05 | 1.66E-05 |
| 1005 | 258631.8 | 4084531 | 4.60E-05 | 6.65E-04 | 4.90E-04 | 4.90E-04 | 2.73E-04 | 6.98E-06 | 1.01E-04 | 7.65E-05 | 7.65E-05 | 4.21E-06 | 3.79E-06 | 5.48E-05 | 3.40E-06 | 3.40E-05 | 1.68E-06 |
| 1006 | 258654.4 | 4084540 | 4.64E-06 | 6.71E-04 | 4.95E-04 | 4.95E-04 | 2.76E-04 | 7.04E-06 | 1.02E-04 | 7.73E-05 | 7.73E-06 | 4.25E-05 | 3.83E-06 | 5.53E-05 | 3.44E-05 | 3.44E-05 | 1.70E-05 |
| 1007 | 258677 | 4084548 | 4.66E-05 | 6.73E-04 | 4.96E-04 | 4.96E-04 | 2.77E-04 | 7.07E-06 | 1.03E-04 | 7.75E-05 | 7.75E-05 | 4.26E-05 | 3.84E-06 | 5.55E-05 | 3.45E-05 | 3.45E-05 | 1.71E-05 |
| 1008 | 258709.5 | 4084578 | 4.80E-05 | 6.95E-04 | 5.12E-04 | 5.12E-04 | 2.85E-04 | 7.29E-06 | 1.06E-04 | 7.99E-05 | 7.99E-05 | 4.40E-05 | 3.96E-06 | 5.73E-05 | 3.56E-05 | 3.56E-05 | 1.76E-06 |
| 1009 | 258719.5 | 4084600 | 4.95E-05 | 7.16E-04 | 5.28E-04 | 5.28E-04 | 2.94E-04 | 7.51E-06 | 1.09E-04 | 8.24E-05 | 8.24E-06 | 4.53E-05 | 4.08E-06 | 5.90E-05 | 3.67E-05 | 3.67E-05 | 1.81E-05 |
| 1010 | 258729.4 | 4084622 | 5.06E-05 | 7.32E-04 | 5.39E-04 | 5.39E-04 | 3.01E-04 | 7.68E-06 | 1.12E-04 | 8.42E-05 | 8.42E-05 | 4.63E-05 | 4.17E-06 | 6.03E-05 | 3.75E-05 | 3.75E-05 | 1.86E-05 |
| 1011 | 258739.3 | 4084644 | 5.13E-05 | 7.42E-04 | 5.47E-04 | 5.47E-04 | 3.05E-04 | 7.78E-06 | 1.13E-04 | 8.53E-05 | 8.53E-06 | 4.69E-05 | 4.23E-06 | 6.11E-05 | 3.80E-06 | 3.80E-06 | 1.88E-05 |
| 1012 | 258749.2 | 4084666 | 5.14E-05 | 7.44E-04 | 5.48E-04 | 5.48E-04 | 3.06E-04 | 7.81E-06 | 1.13E-04 | 8.56E-05 | 8.56E-06 | 4.71E-05 | 4.24E-06 | 6.13E-05 | 3.81E-05 | 3.81E-05 | 1.89E-05 |
| 1013 | 258759.2 | 4084688 | 5.11E-05 | 7.39E-04 | 5.45E-04 | 5.45E-04 | 3.04E-04 | 7.75E-06 | 1.13E-04 | 8.50E-06 | 8.50E-05 | 4.68E-05 | 4.21E-06 | 6.09E-05 | 3.78E-05 | 3.78E-05 | 1.87E-05 |
| 1014 | 258769.1 | 4084710 | 5.02E-05 | 7.26E-04 | 5.35E-04 | 5.35E-04 | 2.98E-04 | 7.62E-06 | 1.11E-04 | 8.36E-05 | 8.36E-05 | 4.59E-05 | 4.14E-06 | 5.99E-05 | 3.72E-05 | 3.72E-05 | 1.84E-05 |
| 1015 | 258779 | 4084732 | 4.88E-05 | 7.06E-04 | 5.20E-04 | 5.20E-04 | 2.90E-04 | 7.41E-06 | 1.08E-04 | 8.12E-05 | 8.12E-05 | 4.47E-05 | 4.02E-06 | 5.82E-05 | 3.61E-05 | 3.61E-05 | 1.79E-05 |
| 1016 | 258789 | 4084754 | 4.70E-05 | 6.79E-04 | 5.01E-04 | 5.01E-04 | 2.79E-04 | 7.13E-06 | 1.03E-04 | 7.81E-05 | 7.81E-05 | 4.30E-05 | 3.87E-06 | 5.60E-05 | 3.48E-05 | 3.48E-05 | 1.72E-05 |
| 1017 | 258798.9 | 4084776 | 4.47E-05 | 6.47E-04 | 4.77E-04 | 4.77E-04 | 2.66E-04 | 6.79E-06 | 9.85E-05 | 7.44E-05 | 7.44E-06 | 4.09E-06 | 3.69E-06 | 5.33E-05 | 3.31E-05 | 3.31E-05 | 1.64E-05 |
| 1018 | 258808.8 | 4084798 | 4.22E-05 | 6.11E-04 | 4.50E-04 | 4.50E-04 | 2.51E-04 | 6.41E-06 | 9.30E-05 | 7.03E-05 | 7.03E-05 | 3.86E-05 | 3.48E-06 | 5.03E-05 | 3.13E-05 | 3.13E-06 | 1.55E-05 |
| 1019 | 258818.8 | 4084820 | 3.95E-05 | 5.72E-04 | 4.21E-04 | 4.21E-04 | 2.35E-04 | 6.00E-06 | 8.71E-05 | 6.58E-06 | 6.58E-06 | 3.62E-06 | 3.26E-06 | 4.71E-05 | 2.93E-05 | 2.93E-06 | 1.45E-05 |
| 1020 | 258828.7 | 4084842 | 3.68E-05 | 5.32E-04 | 3.92E-04 | 3.92E-04 | 2.19E-04 | 5.58E-06 | 8.10E-05 | 6.12E-05 | 6.12E-05 | 3.36E-05 | 3.03E-06 | 4.38E-05 | 2.72E-05 | 2.72E-05 | 1.35E-05 |
| 1021 | 258838.6 | 4084864 | 3.40E-06 | 4.92E-04 | 3.63E-04 | 3.63E-04 | 2.02E-04 | 5.17E-06 | 7.50E-05 | 5.67E-05 | 5.67E-05 | 3.11E-05 | 2.81E-06 | 4.06E-05 | 2.52E-05 | 2.52E-05 | 1.25E-06 |
| 1022 | 258848.5 | 4084886 | 3.14E-05 | 4.54E-04 | 3.35E-04 | 3.35E-04 | 1.87E-04 | 4.76E-06 | 6.92E-05 | 5.23E-05 | 5.23E-05 | 2.87E-05 | 2.59E-06 | 3.74E-05 | 2.32E-05 | 2.32E-05 | 1.15E-06 |
| 1023 | 258338.1 | 4084422 | 2.66E-05 | 3.84E-04 | 2.83E-04 | 2.83E-04 | 1.58E-04 | 4.03E-06 | 5.85E-05 | 4.42E-05 | 4.42E-05 | 2.43E-05 | 2.19E-06 | 3.17E-05 | 1.97E-05 | 1.97E-05 | 9.73E-06 |
| 1024 | 258313.8 | 4084423 | 2.58E-05 | 3.73E-04 | 2.75E-04 | 2.75E-04 | 1.53E-04 | 3.91E-06 | 5.68E-05 | 4.29E-05 | 4.29E-05 | 2.36E-06 | 2.12E-06 | 3.07E-05 | 1.91E-05 | 1.91E-05 | 9.45E-06 |
| 1025 | 258289.5 | 4084424 | 2.49E-06 | 3.61E-04 | 2.66E-04 | 2.66E-04 | 1.48E-04 | 3.78E-06 | 5.49E-05 | 4.15E-05 | 4.15E-05 | 2.28E-05 | 2.06E-06 | 2.97E-05 | 1.85E-05 | 1.85E-06 | 9.14E-06 |
| 1026 | 258265.2 | 4084425 | 2.41E-05 | 3.48E-04 | 2.56E-04 | 2.56E-04 | 1.43E-04 | 3.65E-06 | 5.30E-05 | 4.00E-05 | 4.00E-05 | 2.20E-05 | 1.98E-06 | 2.87E-05 | 1.78E-05 | 1.78E-05 | 8.82E-06 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 821 | 257863.8 | 4084742 | 6.27E-05 | 9.07E-04 | 6.69E-04 | 6.69E-04 | 3.73E-04 | 9.52E-06 | 1.38E-04 | 1.04E-04 | 1.04E-04 | 5.74E-05 | 5.17E-06 | 7.48E-05 | 4.65E-05 | 4.65E-05 | 2.30E-05 |
| 822 | 257839.5 | 4084743 | 5.75E-05 | 8.32E-04 | 6.13E-04 | 6.13E-04 | 3.42E-04 | 8.73E-06 | 1.27E-04 | 9.57E-05 | 9.57E-05 | 5.26E-05 | 4.74E-06 | 6.86E-05 | 4.26E-05 | 4.26E-05 | 2.11E-05 |
| 823 | 257815.2 | 4084744 | 5.22E-05 | 7.55E-04 | 5.57E-04 | 5.57E-04 | 3.10E-04 | 7.92E-06 | 1.15E-04 | 8.69E-05 | 8.69E-05 | 4.78E-05 | 4.30E-06 | 6.23E-05 | 3.87E-05 | 3.87E-05 | 1.91E-05 |
| 824 | 257790.8 | 4084745 | 4.69E-05 | 6.79E-04 | 5.00E-04 | 5.00E-04 | 2.79E-04 | 7.12E-06 | 1.03E-04 | 7.81E-05 | 7.81E-05 | 4.30E-05 | 3.87E-06 | 5.60E-05 | 3.48E-05 | 3.48E-05 | 1.72E-05 |
| 825 | 257766.5 | 4084746 | 4.18E-05 | 6.05E-04 | 4.46E-04 | 4.46E-04 | 2.48E-04 | 6.35E-06 | 9.21E-05 | 6.96E-05 | 6.96E-05 | 3.83E-05 | 3.45E-06 | 4.98E-05 | 3.10E-05 | 3.10E-05 | 1.53E-05 |
| 826 | 257742.2 | 4084747 | 3.70E-05 | 5.35E-04 | 3.94E-04 | 3.94E-04 | 2.20E-04 | 5.61E-06 | 8.14E-05 | 6.15E-05 | 6.15E-05 | 3.38E-05 | 3.05E-06 | 4.41E-05 | 2.74E-05 | 2.74E-05 | 1.35E-05 |
| 827 | 257717.8 | 4084748 | 3.25E-05 | 4.70E-04 | 3.47E-04 | 3.47E-04 | 1.93E-04 | 4.93E-06 | 7.16E-05 | 5.41E-05 | 5.41E-05 | 2.97E-05 | 2.68E-05 | 3.88E-05 | 2.41E-05 | 2.41E-05 | 1.19E-05 |
| 828 | 257693.5 | 4084749 | 2.85E-05 | 4.13E-04 | 3.04E-04 | 3.04E-04 | 1.70E-04 | 4.33E-06 | 6.29E-05 | 4.75E-05 | 4.75E-05 | 2.61E-05 | 2.35E-05 | 3.40E-05 | 2.11E-05 | 2.11E-05 | 1.05E-05 |
| 829 | 257669.2 | 4084750 | 2.51E-05 | 3.63E-04 | 2.68E-04 | 2.68E-04 | 1.49E-04 | 3.81E-06 | 5.53E-05 | 4.18E-05 | 4.18E-05 | 2.30E-05 | 2.07E-06 | 2.99E-05 | 1.86E-05 | 1.86E-05 | 9.21E-06 |
| 830 | 257644.8 | 4084751 | 2.22E-05 | 3.22E-04 | 2.37E-04 | 2.37E-04 | 1.32E-04 | 3.37E-06 | 4.90E-05 | 3.70E-05 | 3.70E-05 | 2.03E-05 | 1.83E-06 | 2.65E-05 | 1.65E-05 | 1.65E-05 | 8.15E-06 |
| 831 | 257620.5 | 4084752 | 1.98E-06 | 2.87E-04 | 2.11E-04 | 2.11E-04 | 1.18E-04 | 3.01E-06 | 4.37E-05 | 3.30E-05 | 3.30E-05 | 1.81E-05 | 1.63E-06 | 2.36E-05 | 1.47E-05 | 1.47E-05 | 7.27E-06 |
| 832 | 257596.2 | 4084753 | 1.79E-05 | 2.58E-04 | 1.90E-04 | 1.90E-04 | 1.06E-04 | 2.71E-06 | 3.94E-05 | 2.97E-05 | 2.97E-05 | 1.63E-05 | 1.47E-05 | 2.13E-05 | 1.32E-05 | 1.32E-05 | 6.55E-06 |
| 833 | 257571.9 | 4084754 | 1.62E-05 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.65E-05 | 2.46E-06 | 3.58E-05 | 2.70E-05 | 2.70E-05 | 1.49E-05 | 1.34E-05 | 1.94E-05 | 1.20E-05 | 1.20E-05 | 5.95E-06 |
| 834 | 257547.5 | 4084755 | 1.49E-05 | 2.15E-04 | 1.59E-04 | 1.59E-04 | 8.84E-05 | 2.26E-06 | 3.28E-05 | 2.48E-05 | 2.48E-05 | 1.36E-05 | 1.23E-05 | 1.77E-05 | 1.10E-05 | 1.10E-05 | 5.45E-06 |
| 835 | 258371 | 4084681 | 8.87E-05 | 1.28E-03 | 9.45E-04 | 9.45E-04 | 5.27E-04 | 1.35E-05 | 1.95E-04 | 1.48E-04 | 1.48E-04 | 8.12E-05 | 7.31E-06 | 1.06E-04 | 6.57E-05 | 6.57E-05 | 3.25E-05 |
| 836 | 258393.6 | 4084689 | 9.28E-05 | 1.34E-03 | 9.89E-04 | 9.89E-04 | 5.51E-04 | 1.41E-05 | 2.04E-04 | 1.54E-04 | 1.54E-04 | 8.49E-05 | 7.65E-06 | 1.11E-04 | 6.87E-05 | 6.87E-05 | 3.40E-05 |
| 837 | 258416.2 | 4084697 | 9.66E-05 | 1.40E-03 | 1.03E-03 | 1.03E-03 | 5.74E-04 | 1.47E-05 | 2.13E-04 | 1.61E-04 | 1.61E-04 | 8.84E-05 | 7.96E-05 | 1.15E-04 | 7.15E-05 | 7.15E-05 | 3.54E-05 |
| 838 | 258438.8 | 4084706 | 1.00E-04 | 1.45E-03 | 1.07E-03 | 1.07E-03 | 5.94E-04 | 1.52E-05 | 2.20E-04 | 1.66E-04 | 1.66E-04 | 9.15E-05 | 8.24E-05 | 1.19E-04 | 7.41E-05 | 7.41E-05 | 3.67E-05 |
| 839 | 258461.4 | 4084714 | 1.03E-04 | 1.49E-03 | 1.10E-03 | 1.10E-03 | 6.11E-04 | 1.56E-05 | 2.26E-04 | 1.71E-04 | 1.71E-04 | 9.41E-05 | 8.47E-05 | 1.23E-04 | 7.61E-05 | 7.61E-05 | 3.77E-05 |
| 840 | 258484 | 4084722 | 1.05E-04 | 1.51E-03 | 1.12E-03 | 1.12E-03 | 6.22E-04 | 1.59E-05 | 2.31E-04 | 1.74E-04 | 1.74E-04 | 9.58E-05 | 8.63E-05 | 1.25E-04 | 7.75E-05 | 7.75E-05 | 3.84E-05 |
| 841 | 258506.6 | 4084731 | 1.05E-04 | 1.52E-03 | 1.12E-03 | 1.12E-03 | 6.26E-04 | 1.60E-05 | 2.32E-04 | 1.75E-04 | 1.75E-04 | 9.64E-05 | 8.68E-06 | 1.26E-04 | 7.80E-05 | 7.80E-05 | 3.86E-05 |
| 842 | 258539.1 | 4084761 | 1.11E-04 | 1.60E-03 | 1.18E-03 | 1.18E-03 | 6.57E-04 | 1.68E-05 | 2.44E-04 | 1.84E-04 | 1.84E-04 | 1.01E-04 | 9.11E-05 | 1.32E-04 | 8.18E-05 | 8.18E-05 | 4.05E-05 |
| 843 | 258549 | 4084783 | 1.15E-04 | 1.66E-03 | 1.22E-03 | 1.22E-03 | 6.82E-04 | 1.74E-05 | 2.53E-04 | 1.91E-04 | 1.91E-04 | 1.05E-04 | 9.45E-06 | 1.37E-04 | 8.49E-05 | 8.49E-05 | 4.20E-05 |
| 844 | 258558.9 | 4084805 | 1.17E-04 | 1.69E-03 | 1.24E-03 | 1.24E-03 | 6.93E-04 | 1.77E-05 | 2.57E-04 | 1.94E-04 | 1.94E-04 | 1.07E-04 | 9.62E-05 | 1.39E-04 | 8.64E-05 | 8.64E-05 | 4.28E-05 |
| 845 | 258568.9 | 4084827 | 1.16E-04 | 1.68E-03 | 1.24E-03 | 1.24E-03 | 6.91E-04 | 1.76E-05 | 2.56E-04 | 1.93E-04 | 1.93E-04 | 1.06E-04 | 9.58E-05 | 1.39E-04 | 8.61E-05 | 8.61E-05 | 4.26E-05 |
| 846 | 258578.8 | 4084849 | 1.13E-04 | 1.63E-03 | 1.20E-03 | 1.20E-03 | 6.71E-04 | 1.71E-05 | 2.49E-04 | 1.88E-04 | 1.88E-04 | 1.03E-04 | 9.31E-06 | 1.35E-04 | 8.36E-05 | 8.36E-05 | 4.14E-05 |
| 847 | 258588.7 | 4084871 | 1.07E-04 | 1.55E-03 | 1.14E-03 | 1.14E-03 | 6.37E-04 | 1.63E-05 | 2.36E-04 | 1.78E-04 | 1.78E-04 | 9.81E-05 | 8.83E-06 | 1.28E-04 | 7.94E-05 | 7.94E-05 | 3.93E-05 |
| 848 | 258598.6 | 4084893 | 9.95E-05 | 1.44E-03 | 1.06E-03 | 1.06E-03 | 5.91E-04 | 1.51E-05 | 2.19E-04 | 1.66E-04 | 1.66E-04 | 9.10E-05 | 8.20E-05 | 1.19E-04 | 7.37E-05 | 7.37E-05 | 3.65E-05 |
| 849 | 258348.4 | 4084672 | 8.44E-05 | 1.22E-03 | 9.00E-04 | 9.00E-04 | 5.02E-04 | 1.28E-05 | 1.86E-04 | 1.41E-04 | 1.41E-04 | 7.73E-05 | 6.96E-05 | 1.01E-04 | 6.25E-05 | 6.25E-05 | 3.10E-05 |
| 850 | 258324.1 | 4084673 | 8.41E-05 | 1.22E-03 | 8.96E-04 | 8.96E-04 | 5.00E-04 | 1.28E-05 | 1.85E-04 | 1.40E-04 | 1.40E-04 | 7.69E-05 | 6.93E-05 | 1.00E-04 | 6.23E-05 | 6.23E-05 | 3.08E-05 |
| 851 | 258299.8 | 4084674 | 8.35E-05 | 1.21E-03 | 8.90E-04 | 8.90E-04 | 4.96E-04 | 1.27E-05 | 1.84E-04 | 1.39E-04 | 1.39E-04 | 7.64E-05 | 6.88E-06 | 9.96E-05 | 6.18E-05 | 6.18E-05 | 3.06E-05 |
| 852 | 258275.4 | 4084675 | 8.27E-05 | 1.20E-03 | 8.82E-04 | 8.82E-04 | 4.92E-04 | 1.26E-05 | 1.82E-04 | 1.38E-04 | 1.38E-04 | 7.57E-05 | 6.82E-05 | 9.66E-05 | 6.13E-05 | 6.13E-05 | 3.03E-05 |
| 853 | 258251.1 | 4084676 | 8.17E-05 | 1.18E-03 | 8.71E-04 | 8.71E-04 | 4.86E-04 | 1.24E-05 | 1.80E-04 | 1.36E-04 | 1.36E-04 | 7.48E-05 | 6.74E-05 | 9.74E-05 | 6.05E-05 | 6.05E-05 | 3.00E-05 |
| 854 | 258226.8 | 4084677 | 8.05E-05 | 1.16E-03 | 8.58E-04 | 8.58E-04 | 4.79E-04 | 1.22E-05 | 1.77E-04 | 1.34E-04 | 1.34E-04 | 7.37E-05 | 6.64E-05 | 9.60E-05 | 5.96E-05 | 5.96E-05 | 2.95E-06 |
| 855 | 258202.4 | 4084678 | 7.92E-05 | 1.15E-03 | 8.44E-04 | 8.44E-04 | 4.71E-04 | 1.20E-05 | 1.74E-04 | 1.32E-04 | 1.32E-04 | 7.24E-05 | 6.53E-05 | 9.44E-05 | 5.86E-05 | 5.86E-05 | 2.90E-05 |
| 856 | 258178.1 | 4084679 | 7.76E-05 | 1.12E-03 | 8.28E-04 | 8.28E-04 | 4.61E-04 | 1.18E-05 | 1.71E-04 | 1.29E-04 | 1.29E-04 | 7.10E-05 | 6.40E-05 | 9.25E-05 | 5.75E-05 | 5.75E-05 | 2.85E-05 |
| 857 | 258153.8 | 4084630 | 7.59E-05 | 1.10E-03 | 8.09E-04 | 8.09E-04 | 4.51E-04 | 1.15E-05 | 1.67E-04 | 1.26E-04 | 1.26E-04 | 6.95E-05 | 6.26E-05 | 9.05E-05 | 5.62E-05 | 5.62E-05 | 2.78E-05 |
| 858 | 258129.4 | 4084681 | 7.40E-05 | 1.07E-03 | 7.89E-04 | 7.89E-04 | 4.40E-04 | 1.12E-05 | 1.63E-04 | 1.23E-04 | 1.23E-04 | 6.77E-05 | 6.10E-06 | 8.82E-05 | 5.48E-05 | 5.48E-06 | 2.71E-05 |
| 859 | 258105.1 | 4084682 | 7.19E-05 | 1.04E-03 | 7.66E-04 | 7.66E-04 | 4.27E-04 | 1.09E-05 | 1.58E-04 | 1.20E-04 | 1.20E-04 | 6.58E-05 | 5.92E-05 | 8.57E-05 | 5.32E-05 | 5.32E-05 | 2.63E-05 |
| 860 | 258080.8 | 4084683 | 6.96E-05 | 1.01E-03 | 7.42E-04 | 7.42E-04 | 4.13E-04 | 1.06E-05 | 1.53E-04 | 1.16E-04 | 1.16E-04 | 6.37E-05 | 5.73E-05 | 8.29E-05 | 5.15E-05 | 5.15E-05 | 2.55E-05 |
| 861 | 258056.4 | 4084684 | 6.70E-05 | 9.70E-04 | 7.15E-04 | 7.15E-04 | 3.98E-04 | 1.02E-05 | 1.48E-04 | 1.12E-04 | 1.12E-04 | 6.14E-05 | 5.53E-05 | 7.99E-05 | 4.97E-05 | 4.97E-05 | 2.46E-05 |
| 862 | 258032.1 | 4084685 | 6.43E-05 | 9.30E-04 | 6.86E-04 | 6.86E-04 | 3.82E-04 | 9.76E-06 | 1.42E-04 | 1.07E-04 | 1.07E-04 | 5.89E-05 | 5.30E-05 | 7.67E-05 | 4.76E-05 | 4.76E-05 | 2.36E-05 |
| 863 | 258007.8 | 4084686 | 6.14E-05 | 8.88E-04 | 6.55E-04 | 6.55E-04 | 3.65E-04 | 9.32E-06 | 1.35E-04 | 1.02E-04 | 1.02E-04 | 5.62E-05 | 5.06E-05 | 7.32E-05 | 4.55E-05 | 4.55E-05 | 2.25E-05 |
| 864 | 257983.4 | 4084687 | 5.83E-05 | 8.44E-04 | 6.22E-04 | 6.22E-04 | 3.47E-04 | 8.85E-06 | 1.29E-04 | 9.71E-05 | 9.71E-05 | 5.34E-05 | 4.81E-06 | 6.95E-05 | 4.32E-05 | 4.32E-05 | 2.14E-05 |
| 865 | 257959.1 | 4084688 | 5.51E-05 | 7.97E-04 | 5.87E-04 | 5.87E-04 | 3.27E-04 | 8.36E-06 | 1.21E-04 | 9.17E-05 | 9.17E-05 | 5.04E-05 | 4.54E-05 | 6.57E-05 | 4.08E-05 | 4.08E-05 | 2.02E-05 |
| 866 | 257934.8 | 4084689 | 5.17E-05 | 7.48E-04 | 5.51E-04 | 5.51E-04 | 3.07E-04 | 7.84E-05 | 1.14E-04 | 8.60E-05 | 8.60E-05 | 4.73E-05 | 4.26E-05 | 6.16E-05 | 3.83E-05 | 3.83E-05 | 1.89E-05 |
| 867 | 257910.4 | 4084690 | 4.81E-05 | 6.96E-04 | 5.13E-04 | 5.13E-04 | 2.66E-04 | 7.31E-05 | 1.08E-04 | 8.01E-05 | 8.01E-05 | 4.41E-05 | 3.97E-05 | 5.74E-05 | 3.57E-05 | 3.57E-05 | 1.76E-05 |
| 868 | 257886.1 | 4084691 | 4.45E-05 | 6.44E-04 | 4.75E-04 | 4.75E-04 | 2.65E-04 | 6.76E-05 | 9.81E-05 | 7.41E-05 | 7.41E-05 | 4.07E-05 | 3.67E-05 | 5.31E-05 | 3.30E-05 | 3.30E-05 | 1.63E-05 |
| 869 | 257861.8 | 4084692 | 4.09E-05 | 5.91E-04 | 4.36E-04 | 4.36E-04 | 2.43E-04 | 6.20E-05 | 9.01E-05 | 6.80E-05 | 6.80E-05 | 3.74E-05 | 3.37E-05 | 4.87E-05 | 3.03E-05 | 3.03E-05 | 1.50E-05 |
| 870 | 257837.4 | 4084693 | 3.73E-05 | 5.39E-04 | 3.97E-04 | 3.97E-04 | 2.21E-04 | 5.65E-05 | 8.21E-05 | 6.20E-05 | 6.20E-05 | 3.41E-05 | 3.07E-05 | 4.44E-05 | 2.76E-05 | 2.76E-05 | 1.37E-05 |
| 871 | 257813.1 | 4084694 | 3.37E-05 | 4.88E-04 | 3.60E-04 | 3.60E-04 | 2.01E-04 | 5.12E-05 | 7.43E-05 | 5.62E-05 | 5.62E-05 | 3.09E-05 | 2.78E-05 | 4.02E-05 | 2.50E-05 | 2.50E-05 | 1.24E-05 |
| 872 | 257788.8 | 4084695 | 3.04E-05 | 4.40E-04 | 3.24E-04 | 3.24E-04 | 1.81E-04 | 4.61E-05 | 6.70E-05 | 5.06E-05 | 5.06E-05 | 2.78E-05 | 2.51E-05 | 3.62E-05 | 2.25E-05 | 2.25E-05 | 1.11E-05 |
| 873 | 257764.5 | 4084696 | 2.73E-05 | 3.94E-04 | 2.91E-04 | 2.91E-04 | 1.62E-04 | 4.14E-05 | 6.01E-05 | 4.54E-05 | 4.54E-05 | 2.50E-05 | 2.25E-05 | 3.25E-05 | 2.02E-05 | 2.02E-05 | 1.00E-05 |
| 874 | 257740.1 | 4084697 | 2.44E-05 | 3.53E-04 | 2.60E-04 | 2.60E-04 | 1.45E-04 | 3.71E-05 | 5.38E-05 | 4.06E-05 | 4.06E-05 | 2.23E-05 | 2.01E-05 | 2.91E-05 | 1.81E-05 | 1.81E-05 | 8.95E-06 |
| 875 | 257715.8 | 4084698 | 2.19E-05 | 3.16E-04 | 2.33E-04 | 2.33E-04 | 1.30E-04 | 3.32E-06 | 4.82E-05 | 3.64E-05 | 3.64E-05 | 2.00E-05 | 1.80E-05 | 2.61E-05 | 1.62E-05 | 1.62E-05 | 8.02E-05 |
| 876 | 257691.5 | 4084699 | 1.96E-05 | 2.84E-04 | 2.09E-04 | 2.09E-04 | 1.17E-04 | 2.98E-05 | 4.33E-05 | 3.27E-05 | 3.27E-05 | 1.80E-05 | 1.62E-05 | 2.34E-05 | 1.45E-05 | 1.45E-05 | 7.20E-05 |
| 877 | 257667.1 | 4084700 | 1.77E-05 | 2.56E-04 | 1.89E-04 | 1.89E-04 | 1.05E-04 | 2.69E-06 | 3.90E-05 | 2.95E-05 | 2.95E-05 | 1.62E-05 | 1.46E-05 | 2.11E-05 | 1.31E-05 | 1.31E-05 | 6.49E-05 |
| 878 | 257642.8 | 4084701 | 1.61E-05 | 2.32E-04 | 1.71E-04 | 1.71E-04 | 9.55E-05 | 2.44E-06 | 3.54E-05 | 2.67E-05 | 2.67E-05 | 1.47E-05 | 1.32E-05 | 1.92E-05 | 1.19E-05 | 1.19E-05 | 5.89E-05 |
| 879 | 257618.5 | 4084702 | 1.47E-05 | 2.12E-04 | 1.56E-04 | 1.56E-04 | 8.72E-05 | 2.23E-06 | 3.23E-05 | 2.44E-05 | 2.44E-05 | 1.34E-05 | 1.21E-06 | 1.75E-05 | 1.09E-05 | 1.09E-05 | 5.38E-05 |
| 880 | 257594.1 | 4084703 | 1.35E-05 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.01E-05 | 2.05E-06 | 2.97E-05 | 2.24E-05 | 2.24E-05 | 1.23E-05 | 1.11E-06 | 1.61E-05 | 9.98E-06 | 9.98E-06 | 4.94E-05 |
| 881 | 257569.8 | 4084704 | 1.25E-06 | 1.80E-04 | 1.33E-04 | 1.33E-04 | 7.40E-05 | 1.89E-06 | 2.75E-05 | 2.07E-05 | 2.07E-05 | 1.14E-05 | 1.03E-06 | 1.49E-05 | 9.23E-06 | 9.23E-06 | 4.57E-06 |
| 882 | 257545.5 | 4084705 | 1.16E-05 | 1.68E-04 | 1.23E-04 | 1.23E-04 | 6.88E-05 | 1.76E-06 | 2.55E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.55E-07 | 1.38E-05 | 8.58E-06 | 8.58E-06 | 4.25E-06 |
| 883 | 258368 | 4084630 | 6.91E-05 | 9.99E-04 | 7.36E-04 | 7.36E-04 | 4.11E-04 | 1.05E-05 | 1.52E-04 | 1.15E-04 | 1.15E-04 | 6.32E-05 | 5.69E-06 | 8.24E-05 | 5.12E-05 | 5.12E-05 | 2.53E-05 |
| 884 | 258389.7 | 4084638 | 7.23E-05 | 1.05E-03 | 7.71E-04 | 7.71E-04 | 4.30E-04 | 1.10E-05 | 1.59E-04 | 1.20E-04 | 1.20E-04 | 6.62E-05 | 5.96E-05 | 8.62E-05 | 5.36E-05 | 5.36E-05 | 2.65E-05 |
| 885 | 258411.4 | 4084646 | 7.54E-05 | 1.09E-03 | 8.04E-04 | 8.04E-04 | 4.48E-04 | 1.14E-05 | 1.66E-04 | 1.26E-04 | 1.26E-04 | 6.90E-05 | 6.22E-06 | 8.99E-05 | 5.59E-05 | 5.59E-05 | 2.77E-05 |
| 886 | 258433.1 | 4084654 | 7.84E-05 | 1.13E-03 | 8.35E-04 | 8.35E-04 | 4.66E-04 | 1.19E-05 | 1.73E-04 | 1.30E-04 | 1.30E-04 | 7.17E-05 | 6.46E-05 | 9.34E-05 | 5.80E-05 | 5.80E-05 | 2.87E-05 |
| 887 | 258454.8 | 4084662 | 8.10E-05 | 1.17E-03 | 8.64E-04 | 8.64E-04 | 4.82E-04 | 1.23E-05 | 1.79E-04 | 1.35E-04 | 1.35E-04 | 7.42E-05 | 6.68E-05 | 9.66E-05 | 6.00E-05 | 6.00E-05 | 2.97E-05 |
| 888 | 258476.5 | 4084670 | 8.33E-05 | 1.21E-03 | 8.88E-04 | 8.88E-04 | 4.95E-04 | 1.26E-05 | 1.84E-04 | 1.39E-04 | 1.39E-04 | 7.62E-05 | 6.87E-05 | 9.93E-05 | 6.17E-05 | 6.17E-05 | 3.05E-05 |
| 889 | 258498.2 | 4084679 | 8.51E-05 | 1.23E-03 | 9.07E-04 | 9.07E-04 | 5.06E-04 | 1.29E-05 | 1.87E-04 | 1.42E-04 | 1.42E-04 | 7.79E-05 | 7.01E-06 | 1.01E-04 | 6.30E-05 | 6.30E-05 | 3.12E-05 |
| 890 | 258519.9 | 4084687 | 8.62E-05 | 1.25E-03 | 9.19E-04 | 9.19E-04 | 5.12E-04 | 1.31E-05 | 1.90E-04 | 1.43E-04 | 1.43E-04 | 7.89E-05 | 7.11E-05 | 1.03E-04 | 6.38E-05 | 6.38E-05 | 3.16E-05 |
| 891 | 258541.5 | 4084695 | 8.65E-05 | 1.25E-03 | 9.22E-04 | 9.22E-04 | 5.14E-04 | 1.31E-05 | 1.91E-04 | 1.44E-04 | 1.44E-04 | 7.92E-05 | 7.13E-05 | 1.03E-04 | 6.41E-05 | 6.41E-05 | 3.17E-05 |
| 892 | 258572.8 | 4084724 | 9.02E-05 | 1.30E-03 | 9.61E-04 | 9.61E-04 | 5.36E-04 | 1.37E-05 | 1.99E-04 | 1.50E-04 | 1.50E-04 | 8.25E-05 | 7.43E-05 | 1.07E-04 | 6.68E-05 | 6.68E-05 | 3.30E-05 |
| 893 | 258582.3 | 4084745 | 9.35E-05 | 1.35E-03 | 9.96E-04 | 9.96E-04 | 5.55E-04 | 1.42E-05 | 2.06E-04 | 1.56E-04 | 1.56E-04 | 8.55E-05 | 7.70E-05 | 1.11E-04 | 6.92E-05 | 6.92E-05 | 3.43E-05 |
| 894 | 258591.8 | 4084766 | 9.51E-05 | 1.38E-03 | 1.01E-03 | 1.01E-03 | 5.65E-04 | 1.44E-05 | 2.10E-04 | 1.58E-04 | 1.58E-04 | 8.70E-05 | 7.84E-05 | 1.13E-04 | 7.04E-05 | 7.04E-05 | 3.49E-05 |
| 895 | 258601.4 | 4084787 | 9.56E-05 | 1.38E-03 | 1.02E-03 | 1.02E-03 | 5.68E-04 | 1.45E-05 | 2.11E-04 | 1.59E-04 | 1.59E-04 | 8.75E-05 | 7.88E-06 | 1.14E-04 | 7.08E-05 | 7.08E-05 | 3.50E-05 |
| 896 | 258610.9 | 4084808 | 9.43E-05 | 1.36E-03 | 1.01E-03 | 1.01E-03 | 5.61E-04 | 1.43E-05 | 2.08E-04 | 1.57E-04 | 1.57E-04 | 8.63E-05 | 7.77E-05 | 1.12E-04 | 6.99E-05 | 6.99E-05 | 3.46E-05 |
| 897 | 258620.4 | 4084829 | 9.14E-05 | 1.32E-03 | 9.74E-04 | 9.74E-04 | 5.43E-04 | 1.39E-05 | 2.01E-04 | 1.52E-04 | 1.52E-04 | 8.36E-05 | 7.53E-05 | 1.09E-04 | 6.77E-05 | 6.77E-05 | 3.35E-05 |
| 898 | 258630 | 4084850 | 8.70E-05 | 1.26E-03 | 9.27E-04 | 9.27E-04 | 5.17E-04 | 1.32E-05 | 1.92E-04 | 1.45E-04 | 1.45E-04 | 7.96E-05 | 7.17E-05 | 1.04E-04 | 6.44E-05 | 6.44E-05 | 3.19E-05 |
| 899 | 258639.5 | 4084871 | 8.14E-05 | 1.18E-03 | 8.67E-04 | 8.67E-04 | 4.84E-04 | 1.23E-05 | 1.79E-04 | 1.35E-04 | 1.35E-04 | 7.44E-05 | 6.71E-05 | 9.70E-05 | 6.02E-05 | 6.02E-05 | 2.98E-05 |
| 900 | 258649 | 4084892 | 7.50E-05 | 1.08E-03 | 7.99E-04 | 7.99E-04 | 4.46E-04 | 1.14E-05 | 1.65E-04 | 1.25E-04 | 1.25E-04 | 6.86E-05 | 6.18E-05 | 8.94E-05 | 5.55E-05 | 5.55E-05 | 2.75E-05 |
| 901 | 258346.4 | 4084622 | 6.58E-05 | 9.51E-04 | 7.01E-04 | 7.01E-04 | 3.91E-04 | 9.98E-06 | 1.45E-04 | 1.09E-04 | 1.09E-04 | 6.02E-05 | 5.42E-06 | 7.84E-05 | 4.87E-05 | 4.87E-05 | 2.41E-05 |
| 902 | 258322 | 4084623 | 6.51E-05 | 9.42E-04 | 6.94E-04 | 6.94E-04 | 3.87E-04 | 9.88E-06 | 1.43E-04 | 1.08E-04 | 1.08E-04 | 5.96E-05 | 5.37E-06 | 7.76E-05 | 4.82E-05 | 4.82E-05 | 2.39E-05 |
| 903 | 258297.7 | 4084624 | 6.43E-05 | 9.30E-04 | 6.86E-04 | 6.86E-04 | 3.82E-04 | 9.76E-06 | 1.42E-04 | 1.07E-04 | 1.07E-04 | 5.89E-05 | 5.30E-06 | 7.67E-06 | 4.76E-05 | 4.76E-05 | 2.36E-05 |
| 904 | 258273.4 | 4084625 | 6.34E-05 | 9.17E-04 | 6.76E-04 | 6.76E-04 | 3.77E-04 | 9.62E-06 | 1.40E-04 | 1.06E-04 | 1.06E-04 | 5.80E-05 | 5.22E-06 | 7.56E-05 | 4.69E-05 | 4.69E-05 | 2.32E-05 |
| 905 | 258249 | 4084626 | 6.23E-05 | 9.00E-04 | 6.64E-04 | 6.64E-04 | 3.70E-04 | 9.45E-06 | 1.37E-04 | 1.04E-04 | 1.04E-04 | 5.70E-05 | 5.13E-05 | 7.42E-05 | 4.61E-05 | 4.61E-05 | 2.28E-05 |
| 906 | 258224.7 | 4084627 | 6.10E-05 | 8.83E-04 | 6.50E-04 | 6.50E-04 | 3.63E-04 | 9.26E-05 | 1.34E-04 | 1.02E-04 | 1.02E-04 | 5.58E-05 | 5.03E-05 | 7.27E-05 | 4.52E-05 | 4.52E-05 | 2.24E-05 |
| 907 | 258200.4 | 4084628 | 5.96E-05 | 8.62E-04 | 6.35E-04 | 6.35E-04 | 3.54E-04 | 9.05E-05 | 1.31E-04 | 9.92E-05 | 9.92E-05 | 5.46E-05 | 4.91E-05 | 7.11E-05 | 4.41E-05 | 4.41E-05 | 2.19E-05 |
| 908 | 258176 | 4084629 | 5.81E-05 | 8.40E-04 | 6.19E-04 | 6.19E-04 | 3.45E-04 | 8.81E-06 | 1.28E-04 | 9.66E-05 | 9.66E-05 | 5.31E-05 | 4.79E-05 | 6.92E-05 | 4.30E-05 | 4.30E-05 | 2.13E-05 |
| 909 | 258151.7 | 4084630 | 5.64E-05 | 8.15E-04 | 6.01E-04 | 6.01E-04 | 3.35E-04 | 8.55E-06 | 1.24E-04 | 9.38E-05 | 9.38E-05 | 5.16E-05 | 4.65E-05 | 6.72E-05 | 4.17E-05 | 4.17E-05 | 2.07E-05 |
| 910 | 258127.4 | 4084631 | 5.45E-05 | 7.89E-04 | 5.81E-04 | 5.81E-04 | 3.24E-04 | 8.28E-06 | 1.20E-04 | 9.08E-05 | 9.08E-05 | 4.99E-05 | 4.49E-06 | 6.50E-05 | 4.04E-05 | 4.04E-05 | 2.00E-05 |
| 911 | 258103 | 4084632 | 5.25E-05 | 7.60E-04 | 5.60E-04 | 5.60E-04 | 3.12E-04 | 7.97E-06 | 1.16E-04 | 8.74E-05 | 8.74E-05 | 4.81E-05 | 4.33E-06 | 6.26E-05 | 3.89E-05 | 3.89E-05 | 1.92E-05 |
| 912 | 258078.7 | 4084633 | 5.04E-05 | 7.29E-04 | 5.37E-04 | 5.37E-04 | 3.00E-04 | 7.65E-06 | 1.11E-04 | 8.39E-05 | 8.39E-05 | 4.61E-05 | 4.15E-06 | 6.01E-05 | 3.73E-05 | 3.73E-05 | 1.85E-05 |
| 913 | 258054.4 | 4084634 | 4.82E-05 | 6.97E-04 | 5.14E-04 | 5.14E-04 | 2.86E-04 | 7.31E-06 | 1.06E-04 | 8.02E-05 | 8.02E-05 | 4.41E-05 | 3.97E-05 | 5.74E-05 | 3.57E-05 | 3.57E-05 | 1.77E-05 |
| 914 | 258030 | 4084635 | 4.59E-05 | 6.63E-04 | 4.89E-04 | 4.89E-04 | 2.73E-04 | 6.96E-06 | 1.01E-04 | 7.63E-05 | 7.63E-05 | 4.20E-05 | 3.78E-05 | 5.47E-05 | 3.40E-05 | 3.40E-05 | 1.68E-05 |
| 915 | 258005.7 | 4084636 | 4.34E-05 | 6.28E-04 | 4.63E-04 | 4.63E-04 | 2.58E-04 | 6.59E-06 | 9.57E-05 | 7.23E-05 | 7.23E-05 | 3.98E-05 | 3.58E-05 | 5.18E-05 | 3.22E-05 | 3.22E-05 | 1.59E-05 |
| 916 | 257981.4 | 4084637 | 4.09E-05 | 5.92E-04 | 4.36E-04 | 4.36E-04 | 2.43E-04 | 6.21E-06 | 9.02E-05 | 6.81E-05 | 6.81E-05 | 3.74E-05 | 3.37E-06 | 4.88E-05 | 3.03E-05 | 3.03E-05 | 1.50E-05 |
| 917 | 257957.1 | 4084638 | 3.83E-06 | 5.54E-04 | 4.09E-04 | 4.09E-04 | 2.28E-04 | 5.82E-06 | 8.44E-05 | 6.38E-05 | 6.38E-05 | 3.51E-05 | 3.16E-06 | 4.57E-05 | 2.84E-05 | 2.84E-05 | 1.40E-05 |
| 918 | 257932.7 | 4084639 | 3.57E-05 | 5.16E-04 | 3.80E-04 | 3.80E-04 | 2.12E-04 | 5.42E-06 | 7.86E-05 | 5.94E-05 | 5.94E-05 | 3.27E-05 | 2.94E-06 | 4.26E-05 | 2.64E-05 | 2.64E-05 | 1.31E-05 |
| 919 | 257908.4 | 4084640 | 3.31E-05 | 4.78E-04 | 3.52E-04 | 3.52E-04 | 1.96E-04 | 5.02E-06 | 7.28E-05 | 5.50E-05 | 5.50E-05 | 3.03E-05 | 2.73E-05 | 3.94E-05 | 2.45E-05 | 2.45E-05 | 1.21E-05 |
| 920 | 257884.1 | 4084641 | 3.05E-05 | 4.41E-04 | 3.25E-04 | 3.25E-04 | 1.81E-04 | 4.62E-06 | 6.71E-05 | 5.07E-05 | 5.07E-05 | 2.79E-05 | 2.51E-05 | 3.63E-05 | 2.26E-05 | 2.26E-05 | 1.12E-05 |
| 921 | 257859.7 | 4084642 | 2.79E-05 | 4.04E-04 | 2.98E-04 | 2.98E-04 | 1.66E-04 | 4.24E-06 | 6.16E-05 | 4.65E-05 | 4.65E-05 | 2.56E-05 | 2.30E-06 | 3.33E-05 | 2.07E-05 | 2.07E-05 | 1.02E-05 |
| 922 | 257835.4 | 4084643 | 2.55E-05 | 3.69E-04 | 2.72E-04 | 2.72E-04 | 1.52E-04 | 3.87E-06 | 5.62E-05 | 4.25E-05 | 4.25E-05 | 2.33E-05 | 2.10E-05 | 3.04E-05 | 1.89E-05 | 1.89E-05 | 9.35E-06 |
| 923 | 257811.1 | 4084644 | 2.32E-05 | 3.36E-04 | 2.48E-04 | 2.48E-04 | 1.38E-04 | 3.53E-06 | 5.12E-05 | 3.87E-05 | 3.87E-05 | 2.13E-05 | 1.92E-05 | 2.77E-05 | 1.72E-05 | 1.72E-05 | 8.52E-05 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 718 | 258372.7 | 4084829 | 2.23E-04 | 3.23E-03 | 2.38E-03 | 2.38E-03 | 1.33E-03 | 3.39E-05 | 4.92E-04 | 3.72E-04 | 3.72E-04 | 2.04E-04 | 1.84E-05 | 2.66E-04 | 1.65E-04 | 1.65E-04 | 8.19E-05 |
| 719 | 258408.8 | 4084842 | 2.36E-04 | 3.41E-03 | 2.51E-03 | 2.51E-03 | 1.40E-03 | 3.58E-05 | 5.19E-04 | 3.92E-04 | 3.92E-04 | 2.16E-04 | 1.94E-06 | 2.81E-04 | 1.75E-04 | 1.75E-04 | 8.64E-06 |
| 720 | 258434.8 | 4084866 | 2.54E-04 | 3.68E-03 | 2.71E-03 | 2.71E-03 | 1.51E-03 | 3.85E-05 | 5.61E-04 | 4.23E-04 | 4.23E-04 | 2.33E-04 | 2.10E-05 | 3.03E-04 | 1.88E-04 | 1.88E-04 | 9.33E-05 |
| 721 | 258330.2 | 4084823 | 2.17E-04 | 3.14E-03 | 2.31E-03 | 2.31E-03 | 1.29E-03 | 3.29E-05 | 4.78E-04 | 3.61E-04 | 3.61E-04 | 1.99E-04 | 1.79E-05 | 2.59E-04 | 1.61E-04 | 1.61E-04 | 7.95E-05 |
| 722 | 258305.9 | 4084824 | 2.19E-04 | 3.17E-03 | 2.34E-03 | 2.34E-03 | 1.30E-03 | 3.32E-05 | 4.83E-04 | 3.65E-04 | 3.65E-04 | 2.00E-04 | 1.81E-06 | 2.61E-04 | 1.62E-04 | 1.62E-04 | 8.03E-05 |
| 723 | 258281.6 | 4084825 | 2.20E-04 | 3.19E-03 | 2.35E-03 | 2.35E-03 | 1.31E-03 | 3.34E-05 | 4.85E-04 | 3.67E-04 | 3.67E-04 | 2.02E-04 | 1.82E-06 | 2.63E-04 | 1.63E-04 | 1.63E-04 | 8.08E-05 |
| 724 | 258257.3 | 4084826 | 2.21E-04 | 3.20E-03 | 2.36E-03 | 2.36E-03 | 1.31E-03 | 3.36E-05 | 4.87E-04 | 3.68E-04 | 3.68E-04 | 2.02E-04 | 1.82E-05 | 2.64E-04 | 1.64E-04 | 1.64E-04 | 8.10E-05 |
| 725 | 258232.9 | 4084827 | 2.21E-04 | 3.20E-03 | 2.36E-03 | 2.36E-03 | 1.32E-03 | 3.36E-05 | 4.88E-04 | 3.69E-04 | 3.69E-04 | 2.03E-04 | 1.83E-05 | 2.64E-04 | 1.64E-04 | 1.64E-04 | 8.12E-05 |
| 726 | 258208.6 | 4084828 | 2.21E-04 | 3.20E-03 | 2.36E-03 | 2.36E-03 | 1.32E-03 | 3.36E-05 | 4.88E-04 | 3.69E-04 | 3.69E-04 | 2.03E-04 | 1.82E-05 | 2.64E-04 | 1.64E-04 | 1.64E-04 | 8.12E-05 |
| 727 | 258184.3 | 4084829 | 2.21E-04 | 3.20E-03 | 2.36E-03 | 2.36E-03 | 1.31E-03 | 3.35E-05 | 4.87E-04 | 3.68E-04 | 3.68E-04 | 2.02E-04 | 1.82E-05 | 2.63E-04 | 1.64E-04 | 1.64E-04 | 8.10E-05 |
| 728 | 258159.9 | 4084830 | 2.20E-04 | 3.19E-03 | 2.35E-03 | 2.35E-03 | 1.31E-03 | 3.34E-05 | 4.85E-04 | 3.67E-04 | 3.67E-04 | 2.02E-04 | 1.82E-05 | 2.63E-04 | 1.63E-04 | 1.63E-04 | 8.07E-06 |
| 729 | 258135.6 | 4084831 | 2.19E-04 | 3.17E-03 | 2.34E-03 | 2.34E-03 | 1.30E-03 | 3.33E-05 | 4.83E-04 | 3.65E-04 | 3.65E-04 | 2.01E-04 | 1.81E-05 | 2.61E-04 | 1.62E-04 | 1.62E-04 | 8.03E-05 |
| 730 | 258111.3 | 4084832 | 2.18E-04 | 3.15E-03 | 2.32E-03 | 2.32E-03 | 1.29E-03 | 3.30E-05 | 4.79E-04 | 3.62E-04 | 3.62E-04 | 1.99E-04 | 1.79E-05 | 2.59E-04 | 1.61E-04 | 1.61E-04 | 7.98E-05 |
| 731 | 258086.9 | 4084833 | 2.16E-04 | 3.12E-03 | 2.30E-03 | 2.30E-03 | 1.28E-03 | 3.27E-05 | 4.75E-04 | 3.59E-04 | 3.59E-04 | 1.97E-04 | 1.78E-05 | 2.57E-04 | 1.60E-04 | 1.60E-04 | 7.91E-05 |
| 732 | 258062.6 | 4084834 | 2.13E-04 | 3.09E-03 | 2.27E-03 | 2.27E-03 | 1.27E-03 | 3.24E-05 | 4.70E-04 | 3.55E-04 | 3.55E-04 | 1.95E-04 | 1.76E-05 | 2.54E-04 | 1.58E-04 | 1.58E-04 | 7.82E-05 |
| 733 | 258038.3 | 4084835 | 2.10E-04 | 3.04E-03 | 2.24E-03 | 2.24E-03 | 1.25E-03 | 3.19E-05 | 4.64E-04 | 3.50E-04 | 3.50E-04 | 1.93E-04 | 1.73E-05 | 2.51E-04 | 1.56E-04 | 1.56E-04 | 7.72E-05 |
| 734 | 258013.9 | 4084836 | 2.07E-04 | 3.00E-03 | 2.21E-03 | 2.21E-03 | 1.23E-03 | 3.14E-05 | 4.56E-04 | 3.45E-04 | 3.45E-04 | 1.90E-04 | 1.71E-05 | 2.47E-04 | 1.53E-04 | 1.53E-04 | 7.59E-05 |
| 735 | 257989.6 | 4084837 | 2.03E-04 | 2.94E-03 | 2.17E-03 | 2.17E-03 | 1.21E-03 | 3.08E-05 | 4.48E-04 | 3.38E-04 | 3.38E-04 | 1.86E-04 | 1.68E-06 | 2.42E-04 | 1.50E-04 | 1.50E-04 | 7.45E-05 |
| 736 | 257965.3 | 4084838 | 1.99E-04 | 2.87E-03 | 2.12E-03 | 2.12E-03 | 1.18E-03 | 3.02E-05 | 4.38E-04 | 3.31E-04 | 3.31E-04 | 1.82E-04 | 1.64E-06 | 2.37E-04 | 1.47E-04 | 1.47E-04 | 7.28E-05 |
| 737 | 257940.9 | 4084839 | 1.93E-04 | 2.80E-03 | 2.06E-03 | 2.06E-03 | 1.15E-03 | 2.94E-05 | 4.26E-04 | 3.22E-04 | 3.22E-04 | 1.77E-04 | 1.59E-05 | 2.31E-04 | 1.43E-04 | 1.43E-04 | 7.09E-05 |
| 738 | 257916.6 | 4084840 | 1.87E-04 | 2.71E-03 | 2.00E-03 | 2.00E-03 | 1.11E-03 | 2.84E-05 | 4.13E-04 | 3.12E-04 | 3.12E-04 | 1.72E-04 | 1.54E-05 | 2.23E-04 | 1.39E-04 | 1.39E-04 | 6.87E-05 |
| 739 | 257892.3 | 4084841 | 1.81E-04 | 2.61E-03 | 1.92E-03 | 1.92E-03 | 1.07E-03 | 2.74E-05 | 3.98E-04 | 3.01E-04 | 3.01E-04 | 1.65E-04 | 1.49E-05 | 2.15E-04 | 1.34E-04 | 1.34E-04 | 6.62E-05 |
| 740 | 257867.9 | 4084842 | 1.73E-04 | 2.50E-03 | 1.84E-03 | 1.84E-03 | 1.03E-03 | 2.62E-05 | 3.81E-04 | 2.87E-04 | 2.87E-04 | 1.58E-04 | 1.42E-05 | 2.06E-04 | 1.28E-04 | 1.28E-04 | 6.33E-05 |
| 741 | 257843.6 | 4084843 | 1.64E-04 | 2.37E-03 | 1.75E-03 | 1.75E-03 | 9.74E-04 | 2.49E-05 | 3.61E-04 | 2.73E-04 | 2.73E-04 | 1.50E-04 | 1.35E-05 | 1.95E-04 | 1.21E-04 | 1.21E-04 | 6.01E-05 |
| 742 | 257819.3 | 4084844 | 1.54E-04 | 2.23E-03 | 1.64E-03 | 1.64E-03 | 9.15E-04 | 2.34E-05 | 3.39E-04 | 2.56E-04 | 2.56E-04 | 1.41E-04 | 1.27E-06 | 1.83E-04 | 1.14E-04 | 1.14E-04 | 5.64E-05 |
| 743 | 257794.9 | 4084845 | 1.43E-04 | 2.07E-03 | 1.52E-03 | 1.52E-03 | 8.49E-04 | 2.17E-05 | 3.15E-04 | 2.38E-04 | 2.38E-04 | 1.31E-04 | 1.18E-05 | 1.70E-04 | 1.06E-04 | 1.06E-04 | 5.23E-05 |
| 744 | 257770.6 | 4084846 | 1.31E-04 | 1.89E-03 | 1.39E-03 | 1.39E-03 | 7.76E-04 | 1.98E-05 | 2.88E-04 | 2.17E-04 | 2.17E-04 | 1.19E-04 | 1.08E-05 | 1.56E-04 | 9.67E-05 | 9.67E-06 | 4.79E-05 |
| 745 | 257746.3 | 4084847 | 1.17E-04 | 1.70E-03 | 1.25E-03 | 1.25E-03 | 6.97E-04 | 1.78E-05 | 2.58E-04 | 1.95E-04 | 1.95E-04 | 1.07E-04 | 9.85E-06 | 1.40E-04 | 8.68E-05 | 8.68E-05 | 4.30E-05 |
| 746 | 257722 | 4084848 | 1.03E-04 | 1.49E-03 | 1.10E-03 | 1.10E-03 | 6.13E-04 | 1.56E-05 | 2.27E-04 | 1.72E-04 | 1.72E-04 | 9.43E-05 | 8.50E-06 | 1.23E-04 | 7.63E-05 | 7.63E-05 | 3.78E-05 |
| 747 | 257697.6 | 4084849 | 8.85E-05 | 1.28E-03 | 9.43E-04 | 9.43E-04 | 5.26E-04 | 1.34E-05 | 1.95E-04 | 1.47E-04 | 1.47E-04 | 8.10E-05 | 7.29E-06 | 1.06E-04 | 6.55E-05 | 6.55E-05 | 3.24E-06 |
| 748 | 257673.3 | 4084850 | 7.41E-05 | 1.07E-03 | 7.89E-04 | 7.89E-04 | 4.40E-04 | 1.12E-05 | 1.63E-04 | 1.23E-04 | 1.23E-04 | 6.78E-05 | 6.10E-06 | 8.83E-06 | 5.48E-06 | 5.48E-05 | 2.71E-05 |
| 749 | 257649 | 4084851 | 6.06E-05 | 8.77E-04 | 6.47E-04 | 6.47E-04 | 3.60E-04 | 9.20E-06 | 1.34E-04 | 1.01E-04 | 1.01E-04 | 5.55E-05 | 5.00E-06 | 7.23E-06 | 4.49E-05 | 4.49E-05 | 2.22E-05 |
| 750 | 257624.6 | 4084852 | 4.92E-05 | 7.11E-04 | 5.24E-04 | 5.24E-04 | 2.92E-04 | 7.46E-06 | 1.08E-04 | 8.18E-05 | 8.18E-05 | 4.50E-05 | 4.05E-06 | 5.86E-05 | 3.64E-05 | 3.64E-05 | 1.80E-06 |
| 751 | 257600.3 | 4084853 | 4.02E-05 | 5.81E-04 | 4.29E-04 | 4.29E-04 | 2.39E-04 | 6.10E-06 | 8.86E-05 | 6.69E-05 | 6.69E-05 | 3.68E-05 | 3.31E-06 | 4.79E-05 | 2.98E-05 | 2.98E-05 | 1.47E-06 |
| 752 | 257576 | 4084854 | 3.37E-05 | 4.87E-04 | 3.59E-04 | 3.59E-04 | 2.00E-04 | 5.11E-06 | 7.42E-05 | 5.60E-05 | 5.60E-05 | 3.08E-05 | 2.77E-06 | 4.01E-05 | 2.49E-05 | 2.49E-05 | 1.23E-05 |
| 753 | 257551.6 | 4084855 | 2.90E-05 | 4.19E-04 | 3.09E-04 | 3.09E-04 | 1.72E-04 | 4.40E-06 | 6.38E-05 | 4.82E-05 | 4.82E-05 | 2.65E-05 | 2.39E-06 | 3.45E-05 | 2.15E-05 | 2.15E-05 | 1.06E-05 |
| 754 | 258374.2 | 4084780 | 1.57E-04 | 2.27E-03 | 1.67E-03 | 1.67E-03 | 9.31E-04 | 2.38E-05 | 3.45E-04 | 2.61E-04 | 2.61E-04 | 1.43E-04 | 1.29E-06 | 1.87E-04 | 1.16E-04 | 1.16E-04 | 5.74E-05 |
| 755 | 258395.9 | 4084788 | 1.63E-04 | 2.36E-03 | 1.74E-03 | 1.74E-03 | 9.70E-04 | 2.48E-05 | 3.60E-04 | 2.72E-04 | 2.72E-04 | 1.49E-04 | 1.35E-05 | 1.95E-04 | 1.21E-04 | 1.21E-04 | 5.98E-05 |
| 756 | 258417.6 | 4084796 | 1.68E-04 | 2.43E-03 | 1.79E-03 | 1.79E-03 | 1.00E-03 | 2.55E-05 | 3.71E-04 | 2.80E-04 | 2.80E-04 | 1.54E-04 | 1.39E-05 | 2.01E-04 | 1.25E-04 | 1.25E-04 | 6.17E-05 |
| 757 | 258439.3 | 4084804 | 1.71E-04 | 2.47E-03 | 1.82E-03 | 1.82E-03 | 1.02E-03 | 2.59E-05 | 3.76E-04 | 2.84E-04 | 2.84E-04 | 1.56E-04 | 1.41E-05 | 2.04E-04 | 1.27E-04 | 1.27E-04 | 6.26E-05 |
| 758 | 258470.5 | 4084833 | 1.83E-04 | 2.64E-03 | 1.95E-03 | 1.95E-03 | 1.09E-03 | 2.77E-05 | 4.03E-04 | 3.04E-04 | 3.04E-04 | 1.67E-04 | 1.51E-05 | 2.18E-04 | 1.35E-04 | 1.35E-04 | 6.70E-05 |
| 759 | 258480 | 4084854 | 1.91E-04 | 2.76E-03 | 2.04E-03 | 2.04E-03 | 1.14E-03 | 2.90E-05 | 4.21E-04 | 3.18E-04 | 3.18E-04 | 1.75E-04 | 1.58E-05 | 2.28E-04 | 1.42E-04 | 1.42E-04 | 7.01E-05 |
| 760 | 258489.6 | 4084876 | 1.93E-04 | 2.79E-03 | 2.06E-03 | 2.06E-03 | 1.15E-03 | 2.93E-05 | 4.25E-04 | 3.21E-04 | 3.21E-04 | 1.76E-04 | 1.59E-06 | 2.30E-04 | 1.43E-04 | 1.43E-04 | 7.07E-06 |
| 761 | 258499.1 | 4084897 | 1.88E-04 | 2.72E-03 | 2.00E-03 | 2.00E-03 | 1.12E-03 | 2.85E-05 | 4.14E-04 | 3.13E-04 | 3.13E-04 | 1.72E-04 | 1.55E-06 | 2.24E-04 | 1.39E-04 | 1.39E-04 | 6.89E-06 |
| 762 | 258352.5 | 4084772 | 1.49E-04 | 2.16E-03 | 1.59E-03 | 1.59E-03 | 8.88E-04 | 2.27E-05 | 3.29E-04 | 2.49E-04 | 2.49E-04 | 1.37E-04 | 1.23E-06 | 1.78E-04 | 1.11E-04 | 1.11E-04 | 5.48E-05 |
| 763 | 258328.2 | 4084773 | 1.51E-04 | 2.18E-03 | 1.60E-03 | 1.60E-03 | 8.95E-04 | 2.28E-05 | 3.32E-04 | 2.51E-04 | 2.51E-04 | 1.38E-04 | 1.24E-05 | 1.79E-04 | 1.11E-04 | 1.11E-04 | 5.52E-06 |
| 764 | 258303.9 | 4084774 | 1.51E-04 | 2.19E-03 | 1.61E-03 | 1.61E-03 | 8.98E-04 | 2.29E-05 | 3.33E-04 | 2.52E-04 | 2.52E-04 | 1.38E-04 | 1.25E-05 | 1.80E-04 | 1.12E-04 | 1.12E-04 | 5.54E-05 |
| 765 | 258279.5 | 4084775 | 1.51E-04 | 2.19E-03 | 1.61E-03 | 1.61E-03 | 8.99E-04 | 2.30E-05 | 3.33E-04 | 2.52E-04 | 2.52E-04 | 1.38E-04 | 1.25E-05 | 1.80E-04 | 1.12E-04 | 1.12E-04 | 5.55E-05 |
| 766 | 258255.2 | 4084776 | 1.51E-04 | 2.19E-03 | 1.61E-03 | 1.61E-03 | 8.98E-04 | 2.29E-06 | 3.33E-04 | 2.51E-04 | 2.51E-04 | 1.38E-04 | 1.25E-06 | 1.80E-04 | 1.12E-04 | 1.12E-04 | 5.54E-06 |
| 767 | 258230.9 | 4084777 | 1.51E-04 | 2.18E-03 | 1.61E-03 | 1.61E-03 | 8.95E-04 | 2.29E-05 | 3.32E-04 | 2.51E-04 | 2.51E-04 | 1.38E-04 | 1.24E-05 | 1.80E-04 | 1.12E-04 | 1.12E-04 | 5.52E-06 |
| 768 | 258206.5 | 4084778 | 1.50E-04 | 2.17E-03 | 1.60E-03 | 1.60E-03 | 8.90E-04 | 2.27E-05 | 3.30E-04 | 2.49E-04 | 2.49E-04 | 1.37E-04 | 1.23E-05 | 1.79E-04 | 1.11E-04 | 1.11E-04 | 5.49E-06 |
| 769 | 258182.2 | 4084779 | 1.49E-04 | 2.15E-03 | 1.59E-03 | 1.59E-03 | 8.84E-04 | 2.26E-05 | 3.28E-04 | 2.48E-04 | 2.48E-04 | 1.36E-04 | 1.23E-06 | 1.77E-04 | 1.10E-04 | 1.10E-04 | 5.45E-06 |
| 770 | 258157.9 | 4084780 | 1.47E-04 | 2.13E-03 | 1.57E-03 | 1.57E-03 | 8.76E-04 | 2.24E-05 | 3.25E-04 | 2.45E-04 | 2.45E-04 | 1.35E-04 | 1.22E-06 | 1.76E-04 | 1.09E-04 | 1.09E-04 | 5.40E-06 |
| 771 | 258133.5 | 4084781 | 1.46E-04 | 2.11E-03 | 1.55E-03 | 1.55E-03 | 8.67E-04 | 2.21E-05 | 3.21E-04 | 2.43E-04 | 2.43E-04 | 1.33E-04 | 1.20E-05 | 1.74E-04 | 1.08E-04 | 1.08E-04 | 5.34E-06 |
| 772 | 258109.2 | 4084782 | 1.44E-04 | 2.08E-03 | 1.53E-03 | 1.53E-03 | 8.55E-04 | 2.18E-05 | 3.17E-04 | 2.39E-04 | 2.39E-04 | 1.32E-04 | 1.19E-05 | 1.72E-04 | 1.07E-04 | 1.07E-04 | 5.27E-05 |
| 773 | 258084.9 | 4084783 | 1.42E-04 | 2.05E-03 | 1.51E-03 | 1.51E-03 | 8.42E-04 | 2.15E-05 | 3.12E-04 | 2.36E-04 | 2.36E-04 | 1.30E-04 | 1.17E-05 | 1.69E-04 | 1.05E-04 | 1.05E-04 | 5.19E-06 |
| 774 | 258060.5 | 4084784 | 1.39E-04 | 2.01E-03 | 1.48E-03 | 1.48E-03 | 8.26E-04 | 2.11E-05 | 3.06E-04 | 2.31E-04 | 2.31E-04 | 1.27E-04 | 1.15E-06 | 1.66E-04 | 1.03E-04 | 1.03E-04 | 5.09E-05 |
| 775 | 258036.2 | 4084785 | 1.36E-04 | 1.97E-03 | 1.45E-03 | 1.45E-03 | 8.08E-04 | 2.06E-05 | 2.99E-04 | 2.26E-04 | 2.26E-04 | 1.24E-04 | 1.12E-05 | 1.62E-04 | 1.01E-04 | 1.01E-04 | 4.98E-05 |
| 776 | 258011.9 | 4084786 | 1.32E-04 | 1.92E-03 | 1.41E-03 | 1.41E-03 | 7.87E-04 | 2.01E-05 | 2.92E-04 | 2.20E-04 | 2.20E-04 | 1.21E-04 | 1.09E-06 | 1.58E-04 | 9.81E-06 | 9.81E-05 | 4.86E-05 |
| 777 | 257987.5 | 4084787 | 1.29E-04 | 1.86E-03 | 1.37E-03 | 1.37E-03 | 7.64E-04 | 1.95E-05 | 2.83E-04 | 2.14E-04 | 2.14E-04 | 1.18E-04 | 1.06E-05 | 1.53E-04 | 9.52E-05 | 9.52E-05 | 4.71E-05 |
| 778 | 257963.2 | 4084788 | 1.24E-04 | 1.80E-03 | 1.32E-03 | 1.32E-03 | 7.38E-04 | 1.88E-05 | 2.74E-04 | 2.07E-04 | 2.07E-04 | 1.14E-04 | 1.02E-05 | 1.48E-04 | 9.19E-05 | 9.19E-05 | 4.55E-05 |
| 779 | 257938.9 | 4084789 | 1.19E-04 | 1.72E-03 | 1.27E-03 | 1.27E-03 | 7.08E-04 | 1.81E-05 | 2.63E-04 | 1.98E-04 | 1.98E-04 | 1.09E-04 | 9.83E-06 | 1.42E-04 | 8.83E-05 | 8.83E-05 | 4.37E-05 |
| 780 | 257914.6 | 4084790 | 1.14E-04 | 1.65E-03 | 1.21E-03 | 1.21E-03 | 6.76E-04 | 1.73E-05 | 2.51E-04 | 1.89E-04 | 1.89E-04 | 1.04E-04 | 9.38E-06 | 1.36E-04 | 8.42E-05 | 8.42E-05 | 4.17E-05 |
| 781 | 257890.2 | 4084791 | 1.08E-04 | 1.56E-03 | 1.15E-03 | 1.15E-03 | 6.40E-04 | 1.63E-05 | 2.37E-04 | 1.79E-04 | 1.79E-04 | 9.86E-05 | 8.88E-06 | 1.28E-04 | 7.98E-05 | 7.98E-05 | 3.95E-05 |
| 782 | 257865.9 | 4084792 | 1.01E-04 | 1.46E-03 | 1.08E-03 | 1.08E-03 | 6.01E-04 | 1.53E-05 | 2.23E-04 | 1.68E-04 | 1.68E-04 | 9.26E-05 | 8.34E-06 | 1.21E-04 | 7.49E-05 | 7.49E-05 | 3.71E-05 |
| 783 | 257841.6 | 4084793 | 9.40E-05 | 1.36E-03 | 1.00E-03 | 1.00E-03 | 5.59E-04 | 1.43E-05 | 2.07E-04 | 1.57E-04 | 1.57E-04 | 8.60E-05 | 7.75E-06 | 1.12E-04 | 6.96E-05 | 6.96E-06 | 3.45E-05 |
| 784 | 257817.2 | 4084794 | 8.64E-06 | 1.25E-03 | 9.21E-04 | 9.21E-04 | 5.14E-04 | 1.31E-05 | 1.90E-04 | 1.44E-04 | 1.44E-04 | 7.91E-06 | 7.12E-06 | 1.03E-04 | 6.40E-05 | 6.40E-05 | 3.17E-05 |
| 785 | 257792.9 | 4084795 | 7.84E-05 | 1.13E-03 | 8.36E-04 | 8.36E-04 | 4.66E-04 | 1.19E-05 | 1.73E-04 | 1.31E-04 | 1.31E-04 | 7.18E-06 | 6.47E-06 | 9.35E-05 | 5.81E-05 | 5.81E-05 | 2.88E-05 |
| 786 | 257768.6 | 4084796 | 7.02E-05 | 1.02E-03 | 7.49E-04 | 7.49E-04 | 4.17E-04 | 1.07E-05 | 1.55E-04 | 1.17E-04 | 1.17E-04 | 6.43E-06 | 5.79E-06 | 8.37E-05 | 5.20E-05 | 5.20E-05 | 2.57E-05 |
| 787 | 257744.2 | 4084797 | 6.19E-06 | 8.96E-04 | 6.60E-04 | 6.60E-04 | 3.68E-04 | 9.40E-06 | 1.36E-04 | 1.03E-04 | 1.03E-04 | 5.67E-05 | 5.11E-06 | 7.38E-05 | 4.59E-05 | 4.59E-05 | 2.27E-05 |
| 788 | 257719.9 | 4084798 | 5.39E-05 | 7.79E-04 | 5.74E-04 | 5.74E-04 | 3.20E-04 | 8.18E-06 | 1.19E-04 | 8.97E-05 | 8.97E-05 | 4.93E-05 | 4.44E-06 | 6.42E-05 | 3.99E-05 | 3.99E-06 | 1.98E-06 |
| 789 | 257695.6 | 4084799 | 4.63E-05 | 6.70E-04 | 4.94E-04 | 4.94E-04 | 2.75E-04 | 7.03E-06 | 1.02E-04 | 7.71E-05 | 7.71E-06 | 4.24E-05 | 3.82E-06 | 5.52E-05 | 3.43E-05 | 3.43E-05 | 1.70E-05 |
| 790 | 257671.2 | 4084800 | 3.95E-05 | 5.72E-04 | 4.22E-04 | 4.22E-04 | 2.35E-04 | 6.00E-06 | 8.71E-05 | 6.58E-05 | 6.58E-05 | 3.62E-05 | 3.26E-06 | 4.71E-05 | 2.93E-05 | 2.93E-05 | 1.45E-05 |
| 791 | 257646.9 | 4084801 | 3.38E-05 | 4.88E-04 | 3.60E-04 | 3.60E-04 | 2.01E-04 | 5.12E-06 | 7.44E-05 | 5.62E-05 | 5.62E-05 | 3.09E-05 | 2.78E-06 | 4.02E-05 | 2.50E-05 | 2.50E-06 | 1.24E-06 |
| 792 | 257622.6 | 4084802 | 2.90E-05 | 4.20E-04 | 3.09E-04 | 3.09E-04 | 1.73E-04 | 4.41E-06 | 6.40E-05 | 4.83E-05 | 4.83E-05 | 2.66E-05 | 2.39E-06 | 3.46E-05 | 2.15E-05 | 2.15E-05 | 1.06E-05 |
| 793 | 257598.2 | 4084803 | 2.53E-05 | 3.66E-04 | 2.70E-04 | 2.70E-04 | 1.50E-04 | 3.84E-06 | 5.57E-05 | 4.21E-05 | 4.21E-05 | 2.31E-05 | 2.08E-06 | 3.01E-06 | 1.87E-05 | 1.87E-05 | 9.27E-06 |
| 794 | 257573.9 | 4084804 | 2.23E-05 | 3.23E-04 | 2.38E-04 | 2.38E-04 | 1.33E-04 | 3.39E-06 | 4.92E-05 | 3.72E-05 | 3.72E-05 | 2.04E-05 | 1.84E-06 | 2.66E-05 | 1.65E-05 | 1.65E-05 | 8.19E-06 |
| 795 | 257549.6 | 4084805 | 2.00E-05 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.04E-06 | 4.41E-06 | 3.33E-05 | 3.33E-05 | 1.83E-05 | 1.65E-06 | 2.39E-05 | 1.48E-05 | 1.48E-05 | 7.34E-06 |
| 796 | 258371.1 | 4084730 | 1.16E-04 | 1.67E-03 | 1.23E-03 | 1.23E-03 | 6.87E-04 | 1.75E-05 | 2.55E-04 | 1.92E-04 | 1.92E-04 | 1.06E-04 | 9.52E-06 | 1.38E-04 | 8.56E-05 | 8.56E-05 | 4.24E-05 |
| 797 | 258412.4 | 4084745 | 1.25E-04 | 1.80E-03 | 1.33E-03 | 1.33E-03 | 7.41E-04 | 1.89E-05 | 2.75E-04 | 2.07E-04 | 2.07E-04 | 1.14E-04 | 1.03E-06 | 1.49E-04 | 9.23E-05 | 9.23E-06 | 4.57E-06 |
| 798 | 258453.7 | 4084760 | 1.31E-04 | 1.89E-03 | 1.39E-03 | 1.39E-03 | 7.77E-04 | 1.98E-05 | 2.88E-04 | 2.18E-04 | 2.18E-04 | 1.20E-04 | 1.08E-06 | 1.56E-04 | 9.68E-06 | 9.68E-06 | 4.79E-05 |
| 799 | 258504.1 | 4084796 | 1.39E-04 | 2.01E-03 | 1.48E-03 | 1.48E-03 | 8.24E-04 | 2.10E-05 | 3.05E-04 | 2.31E-04 | 2.31E-04 | 1.27E-04 | 1.14E-06 | 1.65E-04 | 1.03E-04 | 1.03E-04 | 5.08E-06 |
| 800 | 258522.3 | 4084836 | 1.47E-04 | 2.12E-03 | 1.57E-03 | 1.57E-03 | 8.73E-04 | 2.23E-05 | 3.24E-04 | 2.44E-04 | 2.44E-04 | 1.34E-04 | 1.21E-05 | 1.75E-04 | 1.09E-04 | 1.09E-04 | 5.38E-05 |
| 801 | 258540.4 | 4084876 | 1.42E-04 | 2.05E-03 | 1.51E-03 | 1.51E-03 | 8.43E-04 | 2.15E-05 | 3.12E-04 | 2.36E-04 | 2.36E-04 | 1.30E-04 | 1.17E-05 | 1.69E-04 | 1.05E-04 | 1.05E-04 | 5.20E-05 |
| 802 | 258326.1 | 4084723 | 1.11E-04 | 1.60E-03 | 1.18E-03 | 1.18E-03 | 6.58E-04 | 1.68E-05 | 2.44E-04 | 1.84E-04 | 1.84E-04 | 1.01E-04 | 9.13E-06 | 1.32E-04 | 8.20E-05 | 8.20E-05 | 4.06E-05 |
| 803 | 258301.8 | 4084724 | 1.11E-04 | 1.60E-03 | 1.18E-03 | 1.18E-03 | 6.57E-04 | 1.68E-05 | 2.44E-04 | 1.84E-04 | 1.84E-04 | 1.01E-04 | 9.11E-06 | 1.32E-04 | 8.19E-05 | 8.19E-05 | 4.05E-06 |
| 804 | 258277.5 | 4084725 | 1.10E-04 | 1.59E-03 | 1.17E-03 | 1.17E-03 | 6.54E-04 | 1.67E-05 | 2.43E-04 | 1.83E-04 | 1.83E-04 | 1.01E-04 | 9.07E-06 | 1.31E-04 | 8.15E-05 | 8.15E-05 | 4.04E-05 |
| 805 | 258253.1 | 4084726 | 1.09E-04 | 1.58E-03 | 1.17E-03 | 1.17E-03 | 6.50E-04 | 1.66E-05 | 2.41E-04 | 1.82E-04 | 1.82E-04 | 1.00E-04 | 9.02E-06 | 1.30E-04 | 8.10E-05 | 8.10E-05 | 4.01E-05 |
| 806 | 258228.8 | 4084727 | 1.08E-04 | 1.57E-03 | 1.16E-03 | 1.16E-03 | 6.44E-04 | 1.65E-05 | 2.39E-04 | 1.80E-04 | 1.80E-04 | 9.92E-05 | 8.94E-06 | 1.29E-04 | 8.03E-05 | 8.03E-05 | 3.97E-05 |
| 807 | 258204.5 | 4084728 | 1.07E-04 | 1.55E-03 | 1.14E-03 | 1.14E-03 | 6.37E-04 | 1.63E-05 | 2.36E-04 | 1.79E-04 | 1.79E-04 | 9.82E-05 | 8.84E-06 | 1.28E-04 | 7.94E-06 | 7.94E-05 | 3.93E-05 |
| 808 | 258180.1 | 4084729 | 1.06E-04 | 1.53E-03 | 1.13E-03 | 1.13E-03 | 6.29E-04 | 1.61E-05 | 2.33E-04 | 1.76E-04 | 1.76E-04 | 9.69E-05 | 8.73E-06 | 1.26E-04 | 7.84E-05 | 7.84E-05 | 3.88E-06 |
| 809 | 258155.8 | 4084730 | 1.04E-04 | 1.51E-03 | 1.11E-03 | 1.11E-03 | 6.20E-04 | 1.58E-05 | 2.30E-04 | 1.74E-04 | 1.74E-04 | 9.54E-05 | 8.59E-06 | 1.24E-04 | 7.72E-05 | 7.72E-05 | 3.82E-05 |
| 810 | 258131.5 | 4084731 | 1.02E-04 | 1.48E-03 | 1.09E-03 | 1.09E-03 | 6.08E-04 | 1.55E-05 | 2.26E-04 | 1.70E-04 | 1.70E-04 | 9.37E-05 | 8.44E-06 | 1.22E-04 | 7.58E-05 | 7.58E-05 | 3.75E-05 |
| 811 | 258107.2 | 4084732 | 1.00E-04 | 1.45E-03 | 1.07E-03 | 1.07E-03 | 5.96E-04 | 1.52E-05 | 2.21E-04 | 1.67E-04 | 1.67E-04 | 9.17E-05 | 8.26E-06 | 1.20E-04 | 7.42E-05 | 7.42E-05 | 3.67E-05 |
| 812 | 258082.8 | 4084733 | 9.79E-05 | 1.42E-03 | 1.04E-03 | 1.04E-03 | 5.82E-04 | 1.49E-05 | 2.16E-04 | 1.63E-04 | 1.63E-04 | 8.95E-05 | 8.07E-06 | 1.17E-04 | 7.25E-05 | 7.25E-06 | 3.59E-06 |
| 813 | 258058.5 | 4084734 | 9.52E-05 | 1.38E-03 | 1.01E-03 | 1.01E-03 | 5.66E-04 | 1.44E-05 | 2.10E-04 | 1.58E-04 | 1.58E-04 | 8.71E-05 | 7.85E-06 | 1.13E-04 | 7.05E-06 | 7.05E-06 | 3.49E-05 |
| 814 | 258034.2 | 4084735 | 9.22E-05 | 1.33E-03 | 9.83E-04 | 9.83E-04 | 5.48E-04 | 1.40E-05 | 2.03E-04 | 1.53E-04 | 1.53E-04 | 8.44E-05 | 7.60E-06 | 1.10E-04 | 6.83E-05 | 6.83E-05 | 3.38E-05 |
| 815 | 258009.8 | 4084736 | 8.89E-05 | 1.29E-03 | 9.48E-04 | 9.48E-04 | 5.29E-04 | 1.35E-05 | 1.96E-04 | 1.48E-04 | 1.48E-04 | 8.14E-05 | 7.33E-06 | 1.06E-04 | 6.59E-05 | 6.59E-05 | 3.26E-05 |
| 816 | 257985.5 | 4084737 | 8.53E-05 | 1.23E-03 | 9.10E-04 | 9.10E-04 | 5.07E-04 | 1.30E-05 | 1.88E-04 | 1.42E-04 | 1.42E-04 | 7.81E-05 | 7.03E-06 | 1.02E-04 | 6.32E-05 | 6.32E-05 | 3.13E-06 |
| 817 | 257961.2 | 4084738 | 8.14E-05 | 1.18E-03 | 8.68E-04 | 8.68E-04 | 4.84E-04 | 1.24E-05 | 1.79E-04 | 1.36E-04 | 1.36E-04 | 7.45E-05 | 6.71E-06 | 9.71E-05 | 6.03E-05 | 6.03E-05 | 2.98E-06 |
| 818 | 257936.8 | 4084739 | 7.72E-05 | 1.12E-03 | 8.23E-04 | 8.23E-04 | 4.59E-04 | 1.17E-05 | 1.70E-04 | 1.28E-04 | 1.28E-04 | 7.06E-05 | 6.36E-06 | 9.20E-05 | 5.71E-05 | 5.71E-05 | 2.83E-05 |
| 819 | 257912.5 | 4084740 | 7.26E-05 | 1.05E-03 | 7.74E-04 | 7.74E-04 | 4.32E-04 | 1.10E-05 | 1.60E-04 | 1.21E-04 | 1.21E-04 | 6.65E-05 | 5.99E-06 | 8.66E-05 | 5.38E-05 | 5.38E-05 | 2.66E-05 |
| 820 | 257888.2 | 4084741 | 6.78E-05 | 9.81E-04 | 7.23E-04 | 7.23E-04 | 4.03E-04 | 1.03E-05 | 1.49E-04 | 1.13E-04 | 1.13E-04 | 6.20E-05 | 5.59E-06 | 8.08E-05 | 5.02E-05 | 5.02E-05 | 2.49E-05 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 615 | 258357.7 | 4084897 | 4.89E-04 | 7.07E-03 | 5.21E-03 | 5.21E-03 | 2.90E-03 | 7.42E-05 | 1.08E-03 | 8.14E-04 | 8.14E-04 | 4.47E-04 | 4.03E-05 | 5.83E-04 | 3.62E-04 | 3.62E-04 | 1.79E-04 |
| 616 | 258333.3 | 4084898 | 5.12E-04 | 7.40E-03 | 5.45E-03 | 5.45E-03 | 3.04E-03 | 7.77E-05 | 1.13E-03 | 8.52E-04 | 8.52E-04 | 4.68E-04 | 4.22E-05 | 6.10E-04 | 3.79E-04 | 3.79E-04 | 1.88E-04 |
| 617 | 258309 | 4084899 | 5.24E-04 | 7.57E-03 | 5.58E-03 | 5.58E-03 | 3.11E-03 | 7.95E-05 | 1.15E-03 | 8.71E-04 | 8.71E-04 | 4.79E-04 | 4.32E-05 | 6.24E-04 | 3.88E-04 | 3.88E-04 | 1.92E-04 |
| 618 | 258284.7 | 4084900 | 5.31E-04 | 7.68E-03 | 5.66E-03 | 5.66E-03 | 3.16E-03 | 8.06E-05 | 1.17E-03 | 8.84E-04 | 8.84E-04 | 4.86E-04 | 4.38E-05 | 6.33E-04 | 3.93E-04 | 3.93E-04 | 1.95E-04 |
| 619 | 258260.3 | 4084901 | 5.37E-04 | 7.76E-03 | 5.72E-03 | 5.72E-03 | 3.19E-03 | 8.15E-05 | 1.18E-03 | 8.94E-04 | 8.94E-04 | 4.91E-04 | 4.42E-05 | 6.40E-04 | 3.98E-04 | 3.98E-04 | 1.97E-04 |
| 620 | 258236 | 4084902 | 5.41E-04 | 7.82E-03 | 5.76E-03 | 5.76E-03 | 3.21E-03 | 8.20E-05 | 1.19E-03 | 9.00E-04 | 9.00E-04 | 4.95E-04 | 4.46E-05 | 6.45E-04 | 4.00E-04 | 4.00E-04 | 1.98E-04 |
| 621 | 258211.7 | 4084903 | 5.43E-04 | 7.85E-03 | 5.79E-03 | 5.79E-03 | 3.23E-03 | 8.24E-05 | 1.20E-03 | 9.04E-04 | 9.04E-04 | 4.97E-04 | 4.47E-05 | 6.47E-04 | 4.02E-04 | 4.02E-04 | 1.99E-04 |
| 622 | 258187.3 | 4084904 | 5.44E-04 | 7.87E-03 | 5.80E-03 | 5.80E-03 | 3.23E-03 | 8.26E-05 | 1.20E-03 | 9.06E-04 | 9.06E-04 | 4.98E-04 | 4.48E-05 | 6.49E-04 | 4.03E-04 | 4.03E-04 | 1.99E-04 |
| 623 | 258163 | 4084905 | 5.44E-04 | 7.87E-03 | 5.80E-03 | 5.80E-03 | 3.23E-03 | 8.26E-05 | 1.20E-03 | 9.06E-04 | 9.06E-04 | 4.98E-04 | 4.49E-05 | 6.49E-04 | 4.03E-04 | 4.03E-04 | 1.99E-04 |
| 624 | 258138.7 | 4084906 | 5.44E-04 | 7.86E-03 | 5.80E-03 | 5.80E-03 | 3.23E-03 | 8.25E-05 | 1.20E-03 | 9.05E-04 | 9.05E-04 | 4.98E-04 | 4.48E-05 | 6.48E-04 | 4.03E-04 | 4.03E-04 | 1.99E-04 |
| 625 | 258114.3 | 4084907 | 5.43E-04 | 7.85E-03 | 5.79E-03 | 5.79E-03 | 3.23E-03 | 8.24E-05 | 1.20E-03 | 9.04E-04 | 9.04E-04 | 4.97E-04 | 4.48E-05 | 6.47E-04 | 4.02E-04 | 4.02E-04 | 1.99E-04 |
| 626 | 258090 | 4084908 | 5.42E-04 | 7.83E-03 | 5.77E-03 | 5.77E-03 | 3.22E-03 | 8.22E-05 | 1.19E-03 | 9.02E-04 | 9.02E-04 | 4.96E-04 | 4.46E-05 | 6.46E-04 | 4.01E-04 | 4.01E-04 | 1.99E-04 |
| 627 | 258065.7 | 4084909 | 5.40E-04 | 7.81E-03 | 5.75E-03 | 5.75E-03 | 3.21E-03 | 8.19E-05 | 1.19E-03 | 8.98E-04 | 8.98E-04 | 4.94E-04 | 4.45E-05 | 6.44E-04 | 4.00E-04 | 4.00E-04 | 1.98E-04 |
| 628 | 258041.3 | 4084910 | 5.38E-04 | 7.77E-03 | 5.73E-03 | 5.73E-03 | 3.19E-03 | 8.16E-05 | 1.18E-03 | 8.95E-04 | 8.95E-04 | 4.92E-04 | 4.43E-05 | 6.41E-04 | 3.98E-04 | 3.98E-04 | 1.97E-04 |
| 629 | 258017 | 4084911 | 5.35E-04 | 7.73E-03 | 5.70E-03 | 5.70E-03 | 3.18E-03 | 8.12E-05 | 1.18E-03 | 8.90E-04 | 8.90E-04 | 4.89E-04 | 4.41E-05 | 6.38E-04 | 3.96E-04 | 3.96E-04 | 1.96E-04 |
| 630 | 257992.7 | 4084912 | 5.31E-04 | 7.69E-03 | 5.67E-03 | 5.67E-03 | 3.16E-03 | 8.06E-05 | 1.17E-03 | 8.85E-04 | 8.85E-04 | 4.86E-04 | 4.38E-05 | 6.34E-04 | 3.94E-04 | 3.94E-04 | 1.95E-04 |
| 631 | 257968.3 | 4084913 | 5.27E-04 | 7.63E-03 | 5.62E-03 | 5.62E-03 | 3.13E-03 | 8.00E-05 | 1.16E-03 | 8.78E-04 | 8.78E-04 | 4.83E-04 | 4.35E-05 | 6.29E-04 | 3.91E-04 | 3.91E-04 | 1.93E-04 |
| 632 | 257944 | 4084914 | 5.23E-04 | 7.56E-03 | 5.57E-03 | 5.57E-03 | 3.11E-03 | 7.93E-05 | 1.15E-03 | 8.70E-04 | 8.70E-04 | 4.78E-04 | 4.31E-05 | 6.23E-04 | 3.87E-04 | 3.87E-04 | 1.92E-04 |
| 633 | 257919.7 | 4084915 | 5.17E-04 | 7.48E-03 | 5.51E-03 | 5.51E-03 | 3.07E-03 | 7.84E-05 | 1.14E-03 | 8.60E-04 | 8.60E-04 | 4.73E-04 | 4.26E-05 | 6.16E-04 | 3.83E-04 | 3.83E-04 | 1.89E-04 |
| 634 | 257895.4 | 4084916 | 5.10E-04 | 7.38E-03 | 5.44E-03 | 5.44E-03 | 3.03E-03 | 7.74E-05 | 1.12E-03 | 8.49E-04 | 8.49E-04 | 4.67E-04 | 4.20E-05 | 6.08E-04 | 3.78E-04 | 3.78E-04 | 1.87E-04 |
| 635 | 257871 | 4084917 | 5.02E-04 | 7.26E-03 | 5.35E-03 | 5.35E-03 | 2.98E-03 | 7.62E-05 | 1.11E-03 | 8.35E-04 | 8.35E-04 | 4.59E-04 | 4.14E-05 | 5.98E-04 | 3.72E-04 | 3.72E-04 | 1.84E-04 |
| 636 | 257846.7 | 4084918 | 4.92E-04 | 7.11E-03 | 5.24E-03 | 5.24E-03 | 2.92E-03 | 7.46E-05 | 1.08E-03 | 8.19E-04 | 8.19E-04 | 4.50E-04 | 4.05E-05 | 5.86E-04 | 3.64E-04 | 3.64E-04 | 1.80E-04 |
| 637 | 257822.4 | 4084919 | 4.80E-04 | 6.94E-03 | 5.12E-03 | 5.12E-03 | 2.85E-03 | 7.29E-05 | 1.06E-03 | 7.99E-04 | 7.99E-04 | 4.39E-04 | 3.96E-05 | 5.72E-04 | 3.55E-04 | 3.55E-04 | 1.76E-04 |
| 638 | 257798 | 4084920 | 4.66E-04 | 6.73E-03 | 4.96E-03 | 4.96E-03 | 2.77E-03 | 7.07E-05 | 1.03E-03 | 7.75E-04 | 7.75E-04 | 4.26E-04 | 3.84E-05 | 5.55E-04 | 3.45E-04 | 3.45E-04 | 1.71E-04 |
| 639 | 257773.7 | 4084921 | 4.48E-04 | 6.48E-03 | 4.78E-03 | 4.78E-03 | 2.68E-03 | 6.80E-05 | 9.88E-04 | 7.46E-04 | 7.46E-04 | 4.10E-04 | 3.70E-05 | 5.34E-04 | 3.32E-04 | 3.32E-04 | 1.64E-04 |
| 640 | 257749.4 | 4084922 | 4.28E-04 | 6.18E-03 | 4.56E-03 | 4.56E-03 | 2.54E-03 | 6.49E-05 | 9.42E-04 | 7.12E-04 | 7.12E-04 | 3.91E-04 | 3.52E-05 | 5.10E-04 | 3.17E-04 | 3.17E-04 | 1.57E-04 |
| 641 | 257725 | 4084923 | 4.02E-04 | 5.82E-03 | 4.29E-03 | 4.29E-03 | 2.39E-03 | 6.11E-05 | 8.87E-04 | 6.70E-04 | 6.70E-04 | 3.68E-04 | 3.32E-05 | 4.80E-04 | 2.98E-04 | 2.98E-04 | 1.47E-04 |
| 642 | 257700.7 | 4084924 | 3.72E-04 | 5.38E-03 | 3.96E-03 | 3.96E-03 | 2.21E-03 | 5.64E-05 | 8.19E-04 | 6.19E-04 | 6.19E-04 | 3.40E-04 | 3.06E-05 | 4.43E-04 | 2.75E-04 | 2.75E-04 | 1.36E-04 |
| 643 | 257676.4 | 4084925 | 3.34E-04 | 4.83E-03 | 3.56E-03 | 3.56E-03 | 1.99E-03 | 5.07E-05 | 7.36E-04 | 5.56E-04 | 5.56E-04 | 3.06E-04 | 2.75E-05 | 3.98E-04 | 2.47E-04 | 2.47E-04 | 1.23E-04 |
| 644 | 257652 | 4084926 | 2.88E-04 | 4.17E-03 | 3.07E-03 | 3.07E-03 | 1.71E-03 | 4.37E-05 | 6.35E-04 | 4.80E-04 | 4.80E-04 | 2.64E-04 | 2.38E-05 | 3.44E-04 | 2.13E-04 | 2.13E-04 | 1.06E-04 |
| 645 | 257627.7 | 4084927 | 2.32E-04 | 3.35E-03 | 2.47E-03 | 2.47E-03 | 1.38E-03 | 3.51E-05 | 5.10E-04 | 3.85E-04 | 3.85E-04 | 2.12E-04 | 1.91E-05 | 2.76E-04 | 1.72E-04 | 1.72E-04 | 8.49E-05 |
| 646 | 257603.4 | 4084928 | 1.66E-04 | 2.40E-03 | 1.77E-03 | 1.77E-03 | 9.84E-04 | 2.51E-05 | 3.65E-04 | 2.76E-04 | 2.76E-04 | 1.52E-04 | 1.37E-05 | 1.97E-04 | 1.23E-04 | 1.23E-04 | 6.07E-05 |
| 647 | 257579 | 4084929 | 1.04E-04 | 1.50E-03 | 1.10E-03 | 1.10E-03 | 6.15E-04 | 1.57E-05 | 2.28E-04 | 1.72E-04 | 1.72E-04 | 9.47E-05 | 8.53E-06 | 1.23E-04 | 7.67E-05 | 7.67E-05 | 3.79E-05 |
| 648 | 257554.7 | 4084930 | 7.00E-05 | 1.01E-03 | 7.46E-04 | 7.46E-04 | 4.16E-04 | 1.06E-05 | 1.54E-04 | 1.16E-04 | 1.16E-04 | 6.40E-05 | 5.77E-06 | 8.34E-05 | 5.18E-05 | 5.18E-05 | 2.57E-05 |
| 649 | 258374.7 | 4084879 | 3.63E-04 | 5.25E-03 | 3.87E-03 | 3.87E-03 | 2.16E-03 | 5.51E-05 | 8.00E-04 | 6.04E-04 | 6.04E-04 | 3.32E-04 | 2.99E-05 | 4.33E-04 | 2.69E-04 | 2.69E-04 | 1.33E-04 |
| 650 | 258232.3 | 4084873 | 3.56E-04 | 5.14E-03 | 3.79E-03 | 3.79E-03 | 2.11E-03 | 5.40E-05 | 7.84E-04 | 5.92E-04 | 5.92E-04 | 3.25E-04 | 2.93E-05 | 4.24E-04 | 2.63E-04 | 2.63E-04 | 1.30E-04 |
| 651 | 258308 | 4084874 | 3.62E-04 | 5.23E-03 | 3.86E-03 | 3.86E-03 | 2.15E-03 | 5.49E-05 | 7.97E-04 | 6.02E-04 | 6.02E-04 | 3.31E-04 | 2.98E-05 | 4.31E-04 | 2.68E-04 | 2.68E-04 | 1.33E-04 |
| 652 | 258283.6 | 4084875 | 3.66E-04 | 5.29E-03 | 3.90E-03 | 3.90E-03 | 2.17E-03 | 5.55E-05 | 8.06E-04 | 6.09E-04 | 6.09E-04 | 3.35E-04 | 3.01E-05 | 4.36E-04 | 2.71E-04 | 2.71E-04 | 1.34E-04 |
| 653 | 258259.3 | 4084876 | 3.69E-04 | 5.33E-03 | 3.93E-03 | 3.93E-03 | 2.19E-03 | 5.59E-05 | 8.12E-04 | 6.13E-04 | 6.13E-04 | 3.37E-04 | 3.04E-05 | 4.39E-04 | 2.73E-04 | 2.73E-04 | 1.35E-04 |
| 654 | 258235 | 4084877 | 3.70E-04 | 5.36E-03 | 3.95E-03 | 3.95E-03 | 2.20E-03 | 5.62E-05 | 8.16E-04 | 6.17E-04 | 6.17E-04 | 3.39E-04 | 3.05E-05 | 4.42E-04 | 2.74E-04 | 2.74E-04 | 1.36E-04 |
| 655 | 258210.6 | 4084878 | 3.72E-04 | 5.38E-03 | 3.96E-03 | 3.96E-03 | 2.21E-03 | 5.64E-05 | 8.19E-04 | 6.19E-04 | 6.19E-04 | 3.40E-04 | 3.06E-05 | 4.43E-04 | 2.75E-04 | 2.75E-04 | 1.36E-04 |
| 656 | 258186.3 | 4084879 | 3.72E-04 | 5.39E-03 | 3.97E-03 | 3.97E-03 | 2.21E-03 | 5.65E-05 | 8.20E-04 | 6.20E-04 | 6.20E-04 | 3.41E-04 | 3.07E-05 | 4.44E-04 | 2.76E-04 | 2.76E-04 | 1.36E-04 |
| 657 | 258162 | 4084880 | 3.72E-04 | 5.39E-03 | 3.97E-03 | 3.97E-03 | 2.21E-03 | 5.65E-05 | 8.21E-04 | 6.20E-04 | 6.20E-04 | 3.41E-04 | 3.07E-05 | 4.44E-04 | 2.76E-04 | 2.76E-04 | 1.37E-04 |
| 658 | 258137.6 | 4084881 | 3.72E-04 | 5.38E-03 | 3.97E-03 | 3.97E-03 | 2.21E-03 | 5.65E-05 | 8.20E-04 | 6.19E-04 | 6.19E-04 | 3.40E-04 | 3.07E-05 | 4.44E-04 | 2.76E-04 | 2.76E-04 | 1.36E-04 |
| 659 | 258113.3 | 4084882 | 3.71E-04 | 5.37E-03 | 3.96E-03 | 3.96E-03 | 2.21E-03 | 5.63E-05 | 8.18E-04 | 6.18E-04 | 6.18E-04 | 3.40E-04 | 3.06E-05 | 4.43E-04 | 2.75E-04 | 2.75E-04 | 1.36E-04 |
| 660 | 258089 | 4084883 | 3.70E-04 | 5.35E-03 | 3.94E-03 | 3.94E-03 | 2.20E-03 | 5.61E-05 | 8.15E-04 | 6.16E-04 | 6.16E-04 | 3.39E-04 | 3.05E-05 | 4.41E-04 | 2.74E-04 | 2.74E-04 | 1.36E-04 |
| 661 | 258064.6 | 4084884 | 3.68E-04 | 5.32E-03 | 3.92E-03 | 3.92E-03 | 2.19E-03 | 5.59E-05 | 8.11E-04 | 6.13E-04 | 6.13E-04 | 3.37E-04 | 3.03E-05 | 4.39E-04 | 2.73E-04 | 2.73E-04 | 1.35E-04 |
| 662 | 258040.3 | 4084885 | 3.66E-04 | 5.29E-03 | 3.90E-03 | 3.90E-03 | 2.17E-03 | 5.55E-05 | 8.06E-04 | 6.09E-04 | 6.09E-04 | 3.35E-04 | 3.01E-05 | 4.36E-04 | 2.71E-04 | 2.71E-04 | 1.34E-04 |
| 663 | 258016 | 4084886 | 3.63E-04 | 5.25E-03 | 3.87E-03 | 3.87E-03 | 2.16E-03 | 5.51E-05 | 7.99E-04 | 6.04E-04 | 6.04E-04 | 3.32E-04 | 2.99E-05 | 4.32E-04 | 2.69E-04 | 2.69E-04 | 1.33E-04 |
| 664 | 257991.7 | 4084887 | 3.59E-04 | 5.19E-03 | 3.83E-03 | 3.83E-03 | 2.13E-03 | 5.45E-05 | 7.91E-04 | 5.98E-04 | 5.98E-04 | 3.29E-04 | 2.96E-05 | 4.28E-04 | 2.66E-04 | 2.66E-04 | 1.32E-04 |
| 665 | 257967.3 | 4084888 | 3.55E-04 | 5.13E-03 | 3.78E-03 | 3.78E-03 | 2.11E-03 | 5.39E-05 | 7.82E-04 | 5.91E-04 | 5.91E-04 | 3.25E-04 | 2.92E-05 | 4.23E-04 | 2.63E-04 | 2.63E-04 | 1.30E-04 |
| 666 | 257943 | 4084889 | 3.50E-04 | 5.06E-03 | 3.73E-03 | 3.73E-03 | 2.08E-03 | 5.31E-05 | 7.71E-04 | 5.82E-04 | 5.82E-04 | 3.20E-04 | 2.88E-05 | 4.17E-04 | 2.59E-04 | 2.59E-04 | 1.28E-04 |
| 667 | 257918.7 | 4084890 | 3.44E-04 | 4.97E-03 | 3.66E-03 | 3.66E-03 | 2.04E-03 | 5.22E-05 | 7.57E-04 | 5.72E-04 | 5.72E-04 | 3.15E-04 | 2.83E-05 | 4.10E-04 | 2.55E-04 | 2.55E-04 | 1.26E-04 |
| 668 | 257894.3 | 4084891 | 3.37E-04 | 4.87E-03 | 3.59E-03 | 3.59E-03 | 2.00E-03 | 5.11E-05 | 7.42E-04 | 5.60E-04 | 5.60E-04 | 3.08E-04 | 2.78E-05 | 4.01E-04 | 2.49E-04 | 2.49E-04 | 1.23E-04 |
| 669 | 257870 | 4084892 | 3.28E-04 | 4.75E-03 | 3.50E-03 | 3.50E-03 | 1.95E-03 | 4.98E-05 | 7.24E-04 | 5.47E-04 | 5.47E-04 | 3.01E-04 | 2.71E-05 | 3.92E-04 | 2.43E-04 | 2.43E-04 | 1.20E-04 |
| 670 | 257845.7 | 4084893 | 3.19E-04 | 4.61E-03 | 3.40E-03 | 3.40E-03 | 1.89E-03 | 4.84E-05 | 7.02E-04 | 5.30E-04 | 5.30E-04 | 2.92E-04 | 2.63E-05 | 3.80E-04 | 2.36E-04 | 2.36E-04 | 1.17E-04 |
| 671 | 257821.3 | 4084894 | 3.07E-04 | 4.44E-03 | 3.27E-03 | 3.27E-03 | 1.83E-03 | 4.66E-05 | 6.77E-04 | 5.11E-04 | 5.11E-04 | 2.81E-04 | 2.53E-05 | 3.66E-04 | 2.27E-04 | 2.27E-04 | 1.13E-04 |
| 672 | 257797 | 4084895 | 2.94E-04 | 4.25E-03 | 3.13E-03 | 3.13E-03 | 1.74E-03 | 4.45E-05 | 6.47E-04 | 4.89E-04 | 4.89E-04 | 2.69E-04 | 2.42E-05 | 3.50E-04 | 2.17E-04 | 2.17E-04 | 1.08E-04 |
| 673 | 257772.7 | 4084896 | 2.78E-04 | 4.01E-03 | 2.96E-03 | 2.96E-03 | 1.65E-03 | 4.21E-05 | 6.12E-04 | 4.62E-04 | 4.62E-04 | 2.54E-04 | 2.29E-05 | 3.31E-04 | 2.05E-04 | 2.06E-04 | 1.02E-04 |
| 674 | 257748.3 | 4084897 | 2.59E-04 | 3.74E-03 | 2.76E-03 | 2.76E-03 | 1.54E-03 | 3.93E-05 | 5.70E-04 | 4.31E-04 | 4.31E-04 | 2.37E-04 | 2.13E-05 | 3.09E-04 | 1.92E-04 | 1.92E-04 | 9.49E-05 |
| 675 | 257724 | 4084898 | 2.37E-04 | 3.41E-03 | 2.53E-03 | 2.53E-03 | 1.41E-03 | 3.60E-05 | 5.22E-04 | 3.94E-04 | 3.94E-04 | 2.17E-04 | 1.95E-05 | 2.82E-04 | 1.75E-04 | 1.75E-04 | 8.69E-05 |
| 676 | 257699.7 | 4084899 | 2.12E-04 | 3.06E-03 | 2.26E-03 | 2.26E-03 | 1.26E-03 | 3.21E-05 | 4.66E-04 | 3.52E-04 | 3.52E-04 | 1.94E-04 | 1.74E-05 | 2.52E-04 | 1.57E-04 | 1.57E-04 | 7.76E-05 |
| 677 | 257675.3 | 4084900 | 1.83E-04 | 2.64E-03 | 1.95E-03 | 1.95E-03 | 1.09E-03 | 2.77E-05 | 4.02E-04 | 3.04E-04 | 3.04E-04 | 1.67E-04 | 1.51E-05 | 2.18E-04 | 1.35E-04 | 1.35E-04 | 6.70E-05 |
| 678 | 257651 | 4084901 | 1.50E-04 | 2.18E-03 | 1.60E-03 | 1.60E-03 | 8.94E-04 | 2.26E-05 | 3.31E-04 | 2.50E-04 | 2.50E-04 | 1.38E-04 | 1.24E-05 | 1.79E-04 | 1.11E-04 | 1.11E-04 | 5.51E-05 |
| 679 | 257626.7 | 4084902 | 1.17E-04 | 1.69E-03 | 1.24E-03 | 1.24E-03 | 6.92E-04 | 1.77E-05 | 2.57E-04 | 1.94E-04 | 1.94E-04 | 1.07E-04 | 9.60E-06 | 1.39E-04 | 8.63E-05 | 8.63E-05 | 4.27E-05 |
| 680 | 257602.3 | 4084903 | 8.51E-05 | 1.23E-03 | 9.07E-04 | 9.07E-04 | 5.06E-04 | 1.29E-05 | 1.87E-04 | 1.42E-04 | 1.42E-04 | 7.79E-05 | 7.01E-06 | 1.01E-04 | 6.30E-05 | 6.30E-05 | 3.12E-05 |
| 681 | 257578 | 4084904 | 6.19E-05 | 8.95E-04 | 6.60E-04 | 6.60E-04 | 3.68E-04 | 9.40E-06 | 1.36E-04 | 1.03E-04 | 1.03E-04 | 5.67E-05 | 5.10E-06 | 7.38E-05 | 4.58E-05 | 4.58E-05 | 2.27E-05 |
| 682 | 257553.7 | 4084905 | 4.82E-05 | 6.98E-04 | 5.14E-04 | 5.14E-04 | 2.87E-04 | 7.32E-06 | 1.06E-04 | 8.03E-05 | 8.03E-05 | 4.41E-05 | 3.98E-06 | 5.75E-05 | 3.57E-05 | 3.57E-05 | 1.77E-05 |
| 683 | 258373.7 | 4084854 | 2.79E-04 | 4.03E-03 | 2.97E-03 | 2.97E-03 | 1.66E-03 | 4.23E-05 | 6.14E-04 | 4.64E-04 | 4.64E-04 | 2.55E-04 | 2.30E-05 | 3.32E-04 | 2.06E-04 | 2.06E-04 | 1.02E-04 |
| 684 | 258417.8 | 4084885 | 3.15E-04 | 4.55E-03 | 3.36E-03 | 3.36E-03 | 1.87E-03 | 4.78E-05 | 6.94E-04 | 5.24E-04 | 5.24E-04 | 2.88E-04 | 2.60E-05 | 3.75E-04 | 2.33E-04 | 2.33E-04 | 1.15E-04 |
| 685 | 258331.3 | 4084848 | 2.71E-04 | 3.92E-03 | 2.89E-03 | 2.89E-03 | 1.61E-03 | 4.12E-05 | 5.98E-04 | 4.51E-04 | 4.51E-04 | 2.48E-04 | 2.24E-05 | 3.23E-04 | 2.01E-04 | 2.01E-04 | 9.94E-05 |
| 686 | 258306.9 | 4084849 | 2.75E-04 | 3.97E-03 | 2.93E-03 | 2.93E-03 | 1.63E-03 | 4.17E-05 | 6.05E-04 | 4.57E-04 | 4.57E-04 | 2.51E-04 | 2.26E-05 | 3.28E-04 | 2.03E-04 | 2.03E-04 | 1.01E-04 |
| 687 | 258282.6 | 4084850 | 2.77E-04 | 4.01E-03 | 2.95E-03 | 2.95E-03 | 1.65E-03 | 4.21E-05 | 6.11E-04 | 4.61E-04 | 4.61E-04 | 2.54E-04 | 2.28E-05 | 3.30E-04 | 2.05E-04 | 2.05E-04 | 1.02E-04 |
| 688 | 258258.3 | 4084851 | 2.79E-04 | 4.03E-03 | 2.97E-03 | 2.97E-03 | 1.66E-03 | 4.23E-05 | 6.14E-04 | 4.64E-04 | 4.64E-04 | 2.55E-04 | 2.30E-05 | 3.32E-04 | 2.06E-04 | 2.06E-04 | 1.02E-04 |
| 689 | 258233.9 | 4084852 | 2.80E-04 | 4.04E-03 | 2.98E-03 | 2.98E-03 | 1.66E-03 | 4.24E-05 | 6.16E-04 | 4.65E-04 | 4.65E-04 | 2.56E-04 | 2.31E-05 | 3.33E-04 | 2.07E-04 | 2.07E-04 | 1.03E-04 |
| 690 | 258209.6 | 4084853 | 2.80E-04 | 4.05E-03 | 2.99E-03 | 2.99E-03 | 1.66E-03 | 4.25E-05 | 6.17E-04 | 4.66E-04 | 4.66E-04 | 2.56E-04 | 2.31E-05 | 3.34E-04 | 2.07E-04 | 2.07E-04 | 1.03E-04 |
| 691 | 258185.3 | 4084854 | 2.80E-04 | 4.05E-03 | 2.99E-03 | 2.99E-03 | 1.66E-03 | 4.25E-05 | 6.17E-04 | 4.66E-04 | 4.66E-04 | 2.56E-04 | 2.31E-05 | 3.34E-04 | 2.07E-04 | 2.07E-04 | 1.03E-04 |
| 692 | 258160.9 | 4084855 | 2.80E-04 | 4.05E-03 | 2.98E-03 | 2.98E-03 | 1.66E-03 | 4.24E-05 | 6.16E-04 | 4.66E-04 | 4.66E-04 | 2.56E-04 | 2.31E-05 | 3.33E-04 | 2.07E-04 | 2.07E-04 | 1.03E-04 |
| 693 | 258136.6 | 4084856 | 2.79E-04 | 4.03E-03 | 2.97E-03 | 2.97E-03 | 1.66E-03 | 4.23E-05 | 6.14E-04 | 4.64E-04 | 4.64E-04 | 2.55E-04 | 2.30E-05 | 3.32E-04 | 2.06E-04 | 2.06E-04 | 1.02E-04 |
| 694 | 258112.3 | 4084857 | 2.78E-04 | 4.01E-03 | 2.96E-03 | 2.96E-03 | 1.65E-03 | 4.21E-05 | 6.12E-04 | 4.62E-04 | 4.62E-04 | 2.54E-04 | 2.29E-05 | 3.31E-04 | 2.06E-04 | 2.06E-04 | 1.02E-04 |
| 695 | 258088 | 4084858 | 2.76E-04 | 3.99E-03 | 2.94E-03 | 2.94E-03 | 1.64E-03 | 4.19E-05 | 6.08E-04 | 4.59E-04 | 4.59E-04 | 2.52E-04 | 2.27E-05 | 3.29E-04 | 2.04E-04 | 2.04E-04 | 1.01E-04 |
| 696 | 258063.6 | 4084859 | 2.74E-04 | 3.96E-03 | 2.92E-03 | 2.92E-03 | 1.63E-03 | 4.16E-05 | 6.03E-04 | 4.56E-04 | 4.56E-04 | 2.51E-04 | 2.26E-05 | 3.26E-04 | 2.03E-04 | 2.03E-04 | 1.00E-04 |
| 697 | 258039.3 | 4084860 | 2.71E-04 | 3.92E-03 | 2.89E-03 | 2.89E-03 | 1.61E-03 | 4.12E-05 | 5.98E-04 | 4.51E-04 | 4.51E-04 | 2.48E-04 | 2.24E-05 | 3.23E-04 | 2.01E-04 | 2.01E-04 | 9.94E-05 |
| 698 | 258015 | 4084861 | 2.68E-04 | 3.88E-03 | 2.86E-03 | 2.86E-03 | 1.59E-03 | 4.07E-05 | 5.91E-04 | 4.46E-04 | 4.46E-04 | 2.45E-04 | 2.21E-05 | 3.20E-04 | 1.99E-04 | 1.99E-04 | 9.83E-05 |
| 699 | 257990.6 | 4084862 | 2.64E-04 | 3.82E-03 | 2.82E-03 | 2.82E-03 | 1.57E-03 | 4.01E-05 | 5.82E-04 | 4.40E-04 | 4.40E-04 | 2.42E-04 | 2.18E-05 | 3.15E-04 | 1.96E-04 | 1.96E-04 | 9.69E-05 |
| 700 | 257966.3 | 4084863 | 2.60E-04 | 3.76E-03 | 2.77E-03 | 2.77E-03 | 1.54E-03 | 3.94E-05 | 5.73E-04 | 4.33E-04 | 4.33E-04 | 2.38E-04 | 2.14E-05 | 3.10E-04 | 1.92E-04 | 1.92E-04 | 9.53E-05 |
| 701 | 257942 | 4084864 | 2.55E-04 | 3.68E-03 | 2.72E-03 | 2.72E-03 | 1.51E-03 | 3.87E-05 | 5.61E-04 | 4.24E-04 | 4.24E-04 | 2.33E-04 | 2.10E-05 | 3.04E-04 | 1.89E-04 | 1.89E-04 | 9.34E-05 |
| 702 | 257917.6 | 4084865 | 2.49E-04 | 3.60E-03 | 2.65E-03 | 2.65E-03 | 1.48E-03 | 3.77E-05 | 5.48E-04 | 4.14E-04 | 4.14E-04 | 2.28E-04 | 2.05E-05 | 2.96E-04 | 1.84E-04 | 1.84E-04 | 9.11E-05 |
| 703 | 257893.3 | 4084866 | 2.42E-04 | 3.49E-03 | 2.58E-03 | 2.58E-03 | 1.44E-03 | 3.67E-05 | 5.32E-04 | 4.02E-04 | 4.02E-04 | 2.21E-04 | 1.99E-05 | 2.88E-04 | 1.79E-04 | 1.79E-04 | 8.85E-05 |
| 704 | 257869 | 4084867 | 2.33E-04 | 3.38E-03 | 2.49E-03 | 2.49E-03 | 1.39E-03 | 3.54E-05 | 5.14E-04 | 3.88E-04 | 3.88E-04 | 2.14E-04 | 1.92E-05 | 2.78E-04 | 1.73E-04 | 1.73E-04 | 8.55E-05 |
| 705 | 257844.6 | 4084868 | 2.24E-04 | 3.24E-03 | 2.39E-03 | 2.39E-03 | 1.33E-03 | 3.40E-05 | 4.93E-04 | 3.73E-04 | 3.73E-04 | 2.05E-04 | 1.85E-05 | 2.67E-04 | 1.66E-04 | 1.68E-04 | 8.21E-05 |
| 706 | 257820.3 | 4084869 | 2.13E-04 | 3.08E-03 | 2.27E-03 | 2.27E-03 | 1.27E-03 | 3.23E-05 | 4.69E-04 | 3.54E-04 | 3.54E-04 | 1.95E-04 | 1.76E-05 | 2.54E-04 | 1.58E-04 | 1.58E-04 | 7.81E-05 |
| 707 | 257796 | 4084870 | 2.00E-04 | 2.90E-03 | 2.14E-03 | 2.14E-03 | 1.19E-03 | 3.04E-05 | 4.42E-04 | 3.34E-04 | 3.34E-04 | 1.83E-04 | 1.65E-05 | 2.39E-04 | 1.48E-04 | 1.48E-04 | 7.35E-05 |
| 708 | 257771.6 | 4084871 | 1.86E-04 | 2.69E-03 | 1.98E-03 | 1.98E-03 | 1.11E-03 | 2.83E-05 | 4.10E-04 | 3.10E-04 | 3.10E-04 | 1.70E-04 | 1.53E-05 | 2.22E-04 | 1.38E-04 | 1.38E-04 | 6.82E-05 |
| 709 | 257747.3 | 4084872 | 1.70E-04 | 2.46E-03 | 1.81E-03 | 1.81E-03 | 1.01E-03 | 2.58E-05 | 3.75E-04 | 2.83E-04 | 2.83E-04 | 1.56E-04 | 1.40E-05 | 2.03E-04 | 1.26E-04 | 1.26E-04 | 6.23E-05 |
| 710 | 257723 | 4084873 | 1.52E-04 | 2.20E-03 | 1.62E-03 | 1.62E-03 | 9.04E-04 | 2.31E-05 | 3.35E-04 | 2.51E-04 | 2.51E-04 | 1.39E-04 | 1.25E-05 | 1.81E-04 | 1.13E-04 | 1.13E-04 | 5.57E-05 |
| 711 | 257698.6 | 4084874 | 1.32E-04 | 1.92E-03 | 1.41E-03 | 1.41E-03 | 7.87E-04 | 2.01E-05 | 2.92E-04 | 2.20E-04 | 2.20E-04 | 1.21E-04 | 1.09E-05 | 1.58E-04 | 9.81E-05 | 9.81E-05 | 4.85E-05 |
| 712 | 257674.3 | 4084875 | 1.12E-04 | 1.61E-03 | 1.19E-03 | 1.19E-03 | 6.63E-04 | 1.69E-05 | 2.46E-04 | 1.86E-04 | 1.86E-04 | 1.02E-04 | 9.19E-06 | 1.33E-04 | 8.26E-05 | 8.26E-05 | 4.09E-05 |
| 713 | 257650 | 4084876 | 9.05E-05 | 1.31E-03 | 9.65E-04 | 9.65E-04 | 5.38E-04 | 1.37E-05 | 1.99E-04 | 1.51E-04 | 1.51E-04 | 8.28E-05 | 7.46E-06 | 1.08E-04 | 6.70E-05 | 6.70E-05 | 3.32E-05 |
| 714 | 257625.6 | 4084877 | 7.10E-05 | 1.03E-03 | 7.57E-04 | 7.57E-04 | 4.22E-04 | 1.08E-05 | 1.57E-04 | 1.18E-04 | 1.18E-04 | 6.50E-05 | 5.86E-06 | 8.47E-05 | 5.26E-05 | 5.26E-05 | 2.60E-05 |
| 715 | 257601.3 | 4084878 | 5.52E-05 | 7.98E-04 | 5.88E-04 | 5.88E-04 | 3.28E-04 | 8.37E-06 | 1.22E-04 | 9.18E-05 | 9.18E-05 | 5.05E-05 | 4.55E-06 | 6.58E-05 | 4.08E-05 | 4.08E-05 | 2.02E-05 |
| 716 | 257577 | 4084879 | 4.39E-05 | 6.35E-04 | 4.68E-04 | 4.68E-04 | 2.61E-04 | 6.66E-05 | 9.67E-05 | 7.31E-05 | 7.31E-05 | 4.02E-05 | 3.62E-06 | 5.23E-05 | 3.25E-05 | 3.25E-05 | 1.61E-05 |
| 717 | 257552.7 | 4084880 | 3.64E-05 | 5.27E-04 | 3.88E-04 | 3.88E-04 | 2.17E-04 | 5.53E-06 | 8.03E-05 | 6.06E-05 | 6.06E-05 | 3.33E-05 | 3.00E-06 | 4.34E-05 | 2.70E-05 | 2.70E-05 | 1.34E-05 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 512 | 259660.3 | 4084958 | 5.61E-06 | 8.11E-05 | 5.98E-05 | 5.98E-05 | 3.33E-05 | 8.51E-07 | 1.24E-05 | 9.34E-06 | 9.34E-06 | 5.13E-06 | 4.62E-07 | 6.69E-06 | 4.15E-06 | 4.15E-06 | 2.06E-06 |
| 513 | 259659.6 | 4084934 | 5.79E-06 | 8.37E-05 | 6.17E-05 | 6.17E-05 | 3.44E-05 | 8.79E-07 | 1.28E-05 | 9.64E-06 | 9.64E-06 | 5.30E-06 | 4.77E-07 | 6.90E-06 | 4.29E-06 | 4.29E-06 | 2.12E-06 |
| 514 | 259658.9 | 4084909 | 5.97E-06 | 8.64E-05 | 6.37E-05 | 6.37E-05 | 3.55E-05 | 9.07E-07 | 1.32E-05 | 9.94E-06 | 9.94E-06 | 5.47E-06 | 4.92E-07 | 7.12E-06 | 4.42E-06 | 4.42E-06 | 2.19E-06 |
| 525 | 259658.1 | 4084884 | 6.16E-06 | 8.91E-05 | 6.56E-05 | 6.56E-05 | 3.66E-05 | 9.35E-07 | 1.36E-05 | 1.02E-06 | 1.02E-05 | 5.63E-06 | 5.08E-07 | 7.34E-06 | 4.56E-06 | 4.56E-06 | 2.26E-06 |
| 516 | 259855.1 | 4085100 | 4.19E-06 | 6.06E-05 | 4.47E-06 | 4.47E-05 | 2.49E-05 | 6.36E-07 | 9.23E-06 | 6.97E-06 | 6.97E-06 | 3.83E-06 | 3.45E-07 | 5.00E-06 | 3.10E-06 | 3.10E-06 | 1.54E-06 |
| 517 | 259846.4 | 4085123 | 4.19E-06 | 6.06E-05 | 4.46E-05 | 4.46E-05 | 2.49E-05 | 6.38E-07 | 9.23E-06 | 6.97E-06 | 6.97E-06 | 3.83E-06 | 3.45E-07 | 4.99E-06 | 3.10E-06 | 3.10E-06 | 1.54E-06 |
| 518 | 259837.7 | 4085146 | 4.19E-06 | 6.06E-05 | 4.46E-05 | 4.46E-05 | 2.49E-05 | 6.36E-07 | 9.23E-06 | 6.97E-06 | 6.97E-06 | 3.83E-06 | 3.45E-07 | 4.99E-06 | 3.10E-06 | 3.10E-06 | 1.54E-06 |
| 519 | 259829 | 4085169 | 4.18E-06 | 6.05E-05 | 4.46E-05 | 4.46E-05 | 2.49E-05 | 6.35E-07 | 9.22E-06 | 6.96E-06 | 6.96E-06 | 3.83E-06 | 3.45E-07 | 4.99E-06 | 3.10E-06 | 3.10E-06 | 1.53E-06 |
| 520 | 259820.3 | 4085192 | 4.17E-06 | 6.04E-06 | 4.45E-05 | 4.45E-05 | 2.48E-06 | 6.33E-07 | 9.20E-06 | 6.95E-06 | 6.95E-06 | 3.82E-06 | 3.44E-07 | 4.98E-06 | 3.09E-06 | 3.09E-06 | 1.53E-06 |
| 521 | 259811.6 | 4085215 | 4.16E-06 | 6.01E-05 | 4.43E-05 | 4.43E-05 | 2.47E-05 | 6.31E-07 | 9.16E-06 | 6.92E-06 | 6.92E-06 | 3.80E-06 | 3.43E-07 | 4.95E-06 | 3.08E-06 | 3.08E-06 | 1.52E-06 |
| 522 | 259802.9 | 4085238 | 4.12E-06 | 5.97E-05 | 4.40E-05 | 4.40E-05 | 2.45E-05 | 6.26E-07 | 9.09E-06 | 6.87E-06 | 6.87E-06 | 3.77E-06 | 3.40E-07 | 4.92E-06 | 3.05E-06 | 3.05E-06 | 1.51E-06 |
| 523 | 259794.2 | 4085262 | 4.08E-06 | 5.90E-05 | 4.35E-05 | 4.35E-05 | 2.43E-05 | 6.19E-07 | 8.99E-06 | 6.79E-06 | 6.79E-06 | 3.74E-06 | 3.36E-07 | 4.87E-06 | 3.02E-06 | 3.02E-06 | 1.50E-06 |
| 524 | 259785.5 | 4085285 | 4.03E-06 | 5.82E-05 | 4.29E-06 | 4.29E-05 | 2.39E-05 | 6.11E-07 | 8.87E-06 | 6.70E-06 | 6.70E-06 | 3.68E-06 | 3.32E-07 | 4.80E-06 | 2.98E-06 | 2.98E-06 | 1.48E-06 |
| 525 | 259776.8 | 4085308 | 3.96E-06 | 5.73E-05 | 4.22E-06 | 4.22E-05 | 2.36E-05 | 6.01E-07 | 8.73E-06 | 6.60E-06 | 6.60E-06 | 3.63E-06 | 3.27E-07 | 4.72E-06 | 2.93E-06 | 2.93E-06 | 1.45E-06 |
| 526 | 259768.1 | 4085331 | 3.90E-06 | 5.63E-05 | 4.15E-05 | 4.15E-05 | 2.32E-05 | 5.91E-07 | 8.58E-06 | 6.48E-06 | 6.48E-06 | 3.56E-06 | 3.21E-07 | 4.64E-06 | 2.88E-06 | 2.88E-06 | 1.43E-06 |
| 527 | 259759.4 | 4085354 | 3.82E-06 | 5.53E-05 | 4.08E-05 | 4.08E-06 | 2.27E-05 | 5.80E-07 | 8.43E-06 | 6.36E-06 | 6.36E-06 | 3.50E-06 | 3.15E-07 | 4.56E-06 | 2.83E-06 | 2.83E-06 | 1.40E-06 |
| 528 | 259750.6 | 4085377 | 3.75E-06 | 5.43E-05 | 4.00E-05 | 4.00E-05 | 2.23E-05 | 5.70E-07 | 8.27E-06 | 6.25E-06 | 6.25E-06 | 3.44E-06 | 3.09E-07 | 4.48E-06 | 2.78E-06 | 2.78E-06 | 1.38E-06 |
| 529 | 259741.9 | 4085400 | 3.68E-06 | 5.33E-05 | 3.93E-05 | 3.93E-05 | 2.19E-05 | 5.59E-07 | 8.12E-06 | 6.13E-06 | 6.13E-06 | 3.37E-06 | 3.04E-07 | 4.39E-06 | 2.73E-06 | 2.73E-06 | 1.35E-06 |
| 530 | 259733.2 | 4085424 | 3.62E-06 | 5.23E-05 | 3.86E-05 | 3.86E-05 | 2.15E-05 | 5.49E-07 | 7.97E-06 | 6.02E-06 | 6.02E-06 | 3.31E-06 | 2.98E-07 | 4.31E-06 | 2.68E-06 | 2.68E-06 | 1.33E-06 |
| 531 | 259724.5 | 4085447 | 3.55E-06 | 5.14E-05 | 3.79E-05 | 3.79E-05 | 2.11E-05 | 5.39E-07 | 7.83E-06 | 5.91E-06 | 5.91E-06 | 3.25E-06 | 2.93E-07 | 4.24E-06 | 2.63E-06 | 2.63E-06 | 1.30E-06 |
| 532 | 259725.8 | 4085470 | 3.49E-06 | 5.05E-05 | 3.72E-05 | 3.72E-05 | 2.08E-05 | 5.30E-07 | 7.70E-06 | 5.82E-06 | 5.82E-06 | 3.20E-06 | 2.88E-07 | 4.17E-06 | 2.59E-06 | 2.59E-06 | 1.28E-06 |
| 533 | 259707.1 | 4085493 | 3.44E-05 | 4.97E-05 | 3.67E-05 | 3.67E-05 | 2.04E-05 | 5.22E-07 | 7.58E-06 | 5.72E-06 | 5.72E-05 | 3.25E-06 | 2.83E-07 | 4.10E-06 | 2.55E-06 | 2.55E-06 | 1.26E-06 |
| 534 | 259698.4 | 4085516 | 3.39E-06 | 4.90E-05 | 3.61E-05 | 3.61E-06 | 2.01E-05 | 5.14E-07 | 7.47E-06 | 5.64E-06 | 5.64E-06 | 3.10E-06 | 2.79E-07 | 4.04E-06 | 2.51E-06 | 2.51E-06 | 1.24E-06 |
| 535 | 259689.7 | 4085539 | 3.34E-06 | 4.83E-05 | 3.56E-05 | 3.56E-05 | 1.99E-05 | 5.07E-07 | 7.36E-06 | 5.56E-06 | 5.56E-06 | 3.06E-06 | 2.75E-07 | 3.98E-06 | 2.48E-06 | 2.48E-06 | 1.23E-06 |
| 536 | 259681 | 4085562 | 3.31E-06 | 4.78E-05 | 3.53E-05 | 3.53E-05 | 1.97E-05 | 5.02E-07 | 7.29E-06 | 5.50E-06 | 5.50E-06 | 3.03E-06 | 2.73E-07 | 3.94E-06 | 2.45E-06 | 2.45E-06 | 1.21E-06 |
| 537 | 259672.3 | 4085586 | 3.27E-06 | 4.73E-05 | 3.49E-05 | 3.49E-05 | 1.94E-05 | 4.96E-07 | 7.21E-06 | 5.44E-06 | 5.44E-05 | 2.99E-05 | 2.70E-07 | 3.90E-06 | 2.42E-06 | 2.42E-06 | 1.20E-06 |
| 538 | 259663.6 | 4085609 | 3.24E-06 | 4.69E-05 | 3.45E-05 | 3.45E-05 | 1.93E-05 | 4.92E-07 | 7.14E-06 | 5.39E-06 | 5.39E-06 | 2.96E-06 | 2.67E-07 | 3.86E-06 | 2.40E-06 | 2.40E-06 | 1.19E-06 |
| 539 | 259654.9 | 4085632 | 3.21E-06 | 4.65E-05 | 3.43E-05 | 3.43E-05 | 1.91E-05 | 4.88E-07 | 7.08E-06 | 5.35E-06 | 5.35E-06 | 2.94E-06 | 2.65E-07 | 3.83E-06 | 2.38E-06 | 2.38E-06 | 1.18E-06 |
| 540 | 259646.2 | 4085655 | 3.19E-06 | 4.61E-05 | 3.40E-05 | 3.40E-05 | 1.90E-05 | 4.84E-07 | 7.03E-06 | 5.31E-06 | 5.31E-06 | 2.92E-06 | 2.63E-07 | 3.80E-06 | 2.36E-06 | 2.36E-06 | 1.17E-06 |
| 541 | 259637.5 | 4085678 | 3.17E-06 | 4.58E-05 | 3.38E-05 | 3.38E-05 | 1.88E-05 | 4.81E-07 | 6.98E-06 | 5.27E-06 | 5.27E-06 | 2.90E-06 | 2.61E-07 | 3.78E-06 | 2.35E-06 | 2.35E-06 | 1.16E-06 |
| 542 | 259628.8 | 4085701 | 3.25E-06 | 4.55E-05 | 3.35E-06 | 3.35E-06 | 1.87E-05 | 4.77E-07 | 6.93E-06 | 5.24E-06 | 5.24E-06 | 2.88E-06 | 2.59E-07 | 3.75E-06 | 2.33E-06 | 2.33E-06 | 1.15E-06 |
| 543 | 259620.1 | 4085724 | 3.12E-06 | 4.52E-06 | 3.33E-05 | 3.33E-05 | 1.86E-05 | 4.74E-07 | 6.88E-06 | 5.20E-06 | 5.20E-06 | 2.86E-06 | 2.57E-07 | 3.72E-06 | 2.31E-06 | 2.31E-06 | 1.14E-06 |
| 544 | 259611.4 | 4085748 | 3.09E-06 | 4.48E-05 | 3.30E-05 | 3.30E-05 | 1.84E-05 | 4.70E-07 | 6.82E-06 | 5.15E-06 | 5.15E-06 | 2.83E-05 | 2.55E-07 | 3.69E-06 | 2.29E-06 | 2.29E-06 | 1.13E-06 |
| 545 | 259602.6 | 4085771 | 3.07E-06 | 4.45E-05 | 3.28E-05 | 3.28E-05 | 1.83E-05 | 4.66E-07 | 6.77E-06 | 5.12E-06 | 5.12E-06 | 2.81E-06 | 2.53E-07 | 3.66E-06 | 2.28E-06 | 2.28E-06 | 1.13E-06 |
| 546 | 259593.9 | 4085794 | 3.05E-06 | 4.41E-05 | 3.25E-05 | 3.25E-05 | 1.81E-05 | 4.63E-07 | 6.72E-06 | 5.08E-06 | 5.08E-06 | 2.79E-06 | 2.51E-07 | 3.64E-06 | 2.26E-06 | 2.26E-06 | 1.12E-06 |
| 547 | 259585.2 | 4085817 | 3.03E-06 | 4.38E-05 | 3.23E-05 | 3.23E-05 | 1.80E-05 | 4.59E-07 | 6.67E-06 | 5.04E-06 | 5.04E-05 | 2.77E-05 | 2.49E-07 | 3.61E-06 | 2.24E-06 | 2.24E-06 | 1.11E-06 |
| 548 | 259576.5 | 4085840 | 3.00E-06 | 4.34E-05 | 3.20E-05 | 3.20E-05 | 1.78E-05 | 4.56E-07 | 6.61E-06 | 5.00E-06 | 5.00E-06 | 2.75E-06 | 2.47E-07 | 3.58E-06 | 2.22E-06 | 2.22E-06 | 1.10E-06 |
| 549 | 259567.8 | 4085863 | 2.97E-06 | 4.30E-05 | 3.17E-05 | 3.17E-06 | 1.77E-06 | 4.51E-07 | 6.55E-06 | 4.95E-06 | 4.95E-06 | 2.72E-06 | 2.45E-07 | 3.54E-06 | 2.20E-06 | 2.20E-06 | 1.09E-06 |
| 550 | 259559.1 | 4085887 | 2.94E-06 | 4.25E-05 | 3.13E-05 | 3.13E-05 | 1.75E-05 | 4.46E-07 | 6.48E-06 | 4.89E-06 | 4.89E-06 | 2.69E-06 | 2.42E-07 | 3.51E-06 | 2.18E-06 | 2.18E-06 | 1.08E-06 |
| 551 | 259550.4 | 4085910 | 2.91E-06 | 4.20E-05 | 3.10E-05 | 3.10E-05 | 1.73E-05 | 4.41E-07 | 6.40E-06 | 4.84E-06 | 4.84E-06 | 2.66E-06 | 2.40E-07 | 3.46E-06 | 2.15E-06 | 2.15E-06 | 1.07E-06 |
| 552 | 259541.7 | 4085933 | 2.87E-06 | 4.15E-06 | 3.06E-05 | 3.06E-05 | 1.71E-06 | 4.35E-07 | 6.32E-06 | 4.78E-06 | 4.78E-06 | 2.63E-06 | 2.36E-07 | 3.42E-06 | 2.12E-06 | 2.12E-06 | 1.05E-06 |
| 553 | 259533 | 4085956 | 2.83E-06 | 4.09E-05 | 3.02E-06 | 3.02E-06 | 1.68E-06 | 4.29E-07 | 6.24E-06 | 4.71E-06 | 4.71E-06 | 2.59E-06 | 2.33E-07 | 3.37E-06 | 2.10E-06 | 2.10E-06 | 1.04E-06 |
| 554 | 259524.3 | 4085979 | 2.79E-06 | 4.04E-05 | 2.98E-05 | 2.98E-05 | 1.66E-05 | 4.24E-07 | 6.15E-06 | 4.65E-06 | 4.65E-06 | 2.55E-06 | 2.30E-07 | 3.33E-06 | 2.07E-06 | 2.07E-06 | 1.02E-06 |
| 555 | 259525.6 | 4086002 | 2.75E-06 | 3.98E-06 | 2.94E-05 | 2.94E-06 | 1.64E-05 | 4.18E-07 | 6.07E-06 | 4.58E-06 | 4.58E-06 | 2.52E-06 | 2.27E-07 | 3.28E-06 | 2.04E-06 | 2.04E-06 | 1.01E-06 |
| 556 | 259506.9 | 4086025 | 2.72E-06 | 3.93E-06 | 2.90E-05 | 2.90E-05 | 1.62E-05 | 4.13E-07 | 5.99E-06 | 4.53E-06 | 4.53E-06 | 2.49E-06 | 2.24E-07 | 3.24E-06 | 2.01E-06 | 2.01E-06 | 9.97E-07 |
| 557 | 259498.2 | 4086049 | 2.69E-06 | 3.89E-05 | 2.85E-05 | 2.86E-05 | 1.60E-05 | 4.08E-07 | 5.92E-06 | 4.47E-06 | 4.47E-06 | 2.46E-06 | 2.21E-07 | 3.20E-06 | 1.99E-06 | 1.99E-06 | 9.85E-07 |
| 558 | 259489.5 | 4086072 | 2.66E-06 | 3.85E-05 | 2.84E-05 | 2.84E-05 | 1.58E-05 | 4.04E-07 | 5.86E-06 | 4.43E-06 | 4.43E-06 | 2.43E-06 | 2.19E-07 | 3.17E-06 | 1.97E-06 | 1.97E-06 | 9.75E-07 |
| 559 | 259480.8 | 4086095 | 2.64E-06 | 3.81E-05 | 2.81E-05 | 2.81E-05 | 1.57E-05 | 4.00E-07 | 5.81E-06 | 4.39E-06 | 4.39E-06 | 2.41E-06 | 2.17E-07 | 3.14E-06 | 1.95E-06 | 1.95E-06 | 9.66E-07 |
| 560 | 259472.1 | 4086118 | 2.61E-06 | 3.78E-06 | 2.79E-05 | 2.79E-05 | 1.55E-05 | 3.97E-07 | 5.76E-06 | 4.35E-06 | 4.35E-06 | 2.39E-06 | 2.15E-07 | 3.11E-06 | 1.93E-06 | 1.93E-06 | 9.58E-07 |
| 561 | 259440.9 | 4086152 | 2.61E-06 | 3.78E-06 | 2.79E-05 | 2.79E-05 | 1.55E-05 | 3.97E-07 | 5.76E-06 | 4.35E-06 | 4.35E-06 | 2.39E-06 | 2.16E-07 | 3.12E-06 | 1.94E-06 | 1.94E-06 | 9.58E-07 |
| 562 | 259418.5 | 4086162 | 2.64E-06 | 3.82E-06 | 2.81E-05 | 2.81E-05 | 1.57E-05 | 4.01E-07 | 5.82E-06 | 4.39E-06 | 4.39E-06 | 2.42E-06 | 2.18E-07 | 3.25E-06 | 1.95E-06 | 1.95E-06 | 9.67E-07 |
| 563 | 259396 | 4086172 | 2.67E-06 | 3.85E-06 | 2.84E-05 | 2.84E-05 | 1.58E-05 | 4.05E-07 | 5.87E-06 | 4.44E-06 | 4.44E-06 | 2.44E-06 | 2.20E-07 | 3.18E-06 | 1.97E-06 | 1.97E-06 | 9.77E-07 |
| 564 | 259373.6 | 4086183 | 2.69E-06 | 3.89E-06 | 2.87E-06 | 2.87E-05 | 1.60E-06 | 4.09E-07 | 5.93E-06 | 4.48E-06 | 4.48E-06 | 2.46E-06 | 2.22E-07 | 3.21E-06 | 1.99E-06 | 1.99E-06 | 9.87E-07 |
| 565 | 259351.1 | 4086193 | 2.72E-06 | 3.94E-05 | 2.90E-05 | 2.90E-05 | 1.62E-05 | 4.13E-07 | 6.00E-06 | 4.53E-06 | 4.53E-06 | 2.49E-06 | 2.24E-07 | 3.24E-06 | 2.02E-06 | 2.02E-06 | 9.98E-07 |
| 566 | 259328.7 | 4086203 | 2.75E-06 | 3.97E-05 | 2.93E-06 | 2.93E-05 | 1.63E-05 | 4.17E-07 | 6.05E-06 | 4.57E-06 | 4.57E-06 | 2.51E-05 | 2.26E-07 | 3.28E-06 | 2.03E-06 | 2.03E-06 | 1.01E-06 |
| 567 | 259306.2 | 4086214 | 2.78E-06 | 4.02E-06 | 2.96E-05 | 2.96E-05 | 1.65E-05 | 4.21E-07 | 6.12E-06 | 4.62E-06 | 4.62E-06 | 2.54E-06 | 2.29E-07 | 3.31E-06 | 2.06E-06 | 2.06E-06 | 1.02E-06 |
| 568 | 259283.8 | 4086224 | 2.81E-06 | 4.06E-05 | 2.99E-05 | 2.99E-06 | 1.67E-05 | 4.26E-07 | 6.18E-06 | 4.67E-06 | 4.67E-06 | 2.57E-06 | 2.31E-07 | 3.34E-06 | 2.08E-06 | 2.08E-06 | 1.03E-06 |
| 569 | 259261.3 | 4086235 | 2.84E-06 | 4.10E-05 | 3.02E-05 | 3.02E-05 | 1.69E-05 | 4.30E-07 | 6.25E-06 | 4.72E-06 | 4.72E-06 | 2.60E-06 | 2.34E-07 | 3.38E-06 | 2.10E-06 | 2.10E-06 | 1.04E-06 |
| 570 | 259238.9 | 4086245 | 2.87E-06 | 4.15E-05 | 3.06E-05 | 3.06E-05 | 1.71E-06 | 4.35E-07 | 6.32E-06 | 4.78E-06 | 4.78E-06 | 2.63E-06 | 2.36E-07 | 3.42E-06 | 2.12E-06 | 2.12E-06 | 1.05E-06 |
| 571 | 259216.4 | 4086255 | 2.90E-06 | 4.20E-06 | 3.10E-05 | 3.10E-05 | 1.73E-05 | 4.41E-07 | 6.40E-06 | 4.83E-06 | 4.83E-06 | 2.66E-06 | 2.39E-07 | 3.46E-06 | 2.25E-06 | 2.25E-06 | 1.06E-06 |
| 572 | 259194 | 4086266 | 2.94E-06 | 4.25E-05 | 3.13E-05 | 3.13E-05 | 1.75E-05 | 4.46E-07 | 6.48E-06 | 4.89E-06 | 4.89E-06 | 2.69E-06 | 2.42E-07 | 3.51E-06 | 2.18E-06 | 2.18E-06 | 1.08E-06 |
| 573 | 259171.6 | 4086276 | 2.98E-06 | 4.31E-06 | 3.18E-05 | 3.18E-05 | 1.77E-05 | 4.52E-07 | 6.57E-06 | 4.96E-06 | 4.96E-06 | 2.73E-06 | 2.46E-07 | 3.55E-06 | 2.21E-06 | 2.21E-06 | 1.09E-06 |
| 574 | 259149.1 | 4086286 | 3.03E-06 | 4.38E-05 | 3.23E-05 | 3.23E-05 | 1.80E-05 | 4.59E-07 | 6.67E-06 | 5.04E-06 | 5.04E-06 | 2.77E-06 | 2.49E-07 | 3.61E-06 | 2.24E-06 | 2.24E-06 | 1.11E-06 |
| 575 | 259126.7 | 4086297 | 3.08E-06 | 4.45E-05 | 3.28E-05 | 3.28E-05 | 1.83E-05 | 4.67E-07 | 6.78E-06 | 5.12E-06 | 5.12E-06 | 2.81E-06 | 2.54E-07 | 3.67E-06 | 2.28E-06 | 2.28E-06 | 1.13E-06 |
| 576 | 259104.2 | 4086307 | 3.13E-06 | 4.53E-06 | 3.34E-05 | 3.34E-05 | 1.86E-05 | 4.75E-07 | 6.90E-06 | 5.21E-06 | 5.21E-06 | 2.87E-06 | 2.58E-07 | 3.73E-06 | 2.32E-06 | 2.32E-06 | 1.25E-06 |
| 577 | 259081.8 | 4086318 | 3.19E-06 | 4.62E-05 | 3.40E-05 | 3.40E-05 | 1.90E-05 | 4.85E-07 | 7.03E-06 | 5.31E-06 | 5.31E-06 | 2.92E-06 | 2.63E-07 | 3.81E-06 | 2.36E-06 | 2.36E-06 | 1.17E-06 |
| 578 | 259059.3 | 4086328 | 3.26E-06 | 4.71E-06 | 3.47E-06 | 3.47E-06 | 1.94E-05 | 4.94E-07 | 7.18E-06 | 5.42E-06 | 5.42E-06 | 2.98E-06 | 2.69E-07 | 3.88E-06 | 2.41E-06 | 2.41E-06 | 1.19E-06 |
| 579 | 259036.9 | 4086338 | 3.33E-06 | 4.81E-05 | 3.55E-05 | 3.55E-05 | 1.98E-05 | 5.05E-07 | 7.33E-06 | 5.54E-06 | 5.54E-06 | 3.05E-06 | 2.74E-07 | 3.97E-06 | 2.46E-06 | 2.46E-06 | 1.22E-06 |
| 580 | 259014.4 | 4086349 | 3.40E-06 | 4.92E-05 | 3.62E-05 | 3.62E-06 | 2.02E-05 | 5.16E-07 | 7.49E-06 | 5.66E-06 | 5.66E-06 | 3.11E-06 | 2.80E-07 | 4.05E-06 | 2.52E-06 | 2.52E-06 | 1.25E-06 |
| 581 | 258992 | 4086359 | 3.47E-06 | 5.02E-05 | 3.70E-05 | 3.70E-05 | 2.06E-05 | 5.27E-07 | 7.65E-06 | 5.78E-06 | 5.78E-06 | 3.18E-06 | 2.86E-07 | 4.14E-06 | 2.57E-06 | 2.57E-06 | 1.27E-06 |
| 582 | 258969.5 | 4086370 | 3.54E-06 | 5.12E-05 | 3.77E-05 | 3.77E-05 | 2.10E-05 | 5.37E-07 | 7.80E-06 | 5.89E-06 | 5.89E-06 | 3.24E-06 | 2.92E-07 | 4.22E-06 | 2.62E-06 | 2.62E-06 | 1.30E-06 |
| 583 | 258947.1 | 4086380 | 3.60E-06 | 5.21E-05 | 3.84E-05 | 3.84E-05 | 2.14E-05 | 5.47E-07 | 7.94E-06 | 6.00E-06 | 6.00E-06 | 3.30E-06 | 2.97E-07 | 4.29E-06 | 2.67E-06 | 2.67E-06 | 1.32E-06 |
| 584 | 258924.6 | 4086390 | 3.66E-06 | 5.29E-05 | 3.90E-05 | 3.90E-05 | 2.17E-05 | 5.55E-07 | 8.05E-06 | 6.08E-06 | 6.08E-06 | 3.35E-06 | 3.01E-07 | 4.36E-06 | 2.71E-06 | 2.71E-06 | 1.34E-06 |
| 585 | 258902.2 | 4086401 | 3.70E-06 | 5.35E-05 | 3.95E-06 | 3.95E-06 | 2.20E-05 | 5.62E-07 | 8.25E-06 | 6.16E-06 | 6.16E-06 | 3.39E-06 | 3.05E-07 | 4.41E-06 | 2.74E-06 | 2.74E-06 | 1.36E-06 |
| 586 | 258879.8 | 4086411 | 3.74E-06 | 5.41E-06 | 3.98E-05 | 3.98E-05 | 2.22E-05 | 5.67E-07 | 8.24E-06 | 6.22E-05 | 6.22E-06 | 3.42E-06 | 3.08E-07 | 4.46E-06 | 2.77E-06 | 2.77E-06 | 1.37E-06 |
| 587 | 258857.3 | 4086421 | 3.77E-06 | 5.45E-06 | 4.02E-06 | 4.02E-05 | 2.24E-05 | 5.72E-07 | 8.30E-06 | 6.27E-06 | 6.27E-05 | 3.45E-06 | 3.10E-07 | 4.49E-06 | 2.79E-06 | 2.79E-06 | 1.38E-06 |
| 588 | 258834.9 | 4086432 | 3.79E-06 | 5.48E-05 | 4.04E-06 | 4.04E-05 | 2.25E-05 | 5.75E-07 | 8.35E-06 | 6.31E-06 | 6.31E-06 | 3.47E-06 | 3.12E-07 | 4.52E-06 | 2.81E-06 | 2.81E-06 | 1.39E-06 |
| 589 | 258812.4 | 4086442 | 3.81E-06 | 5.51E-05 | 4.06E-05 | 4.06E-05 | 2.26E-05 | 5.78E-07 | 8.39E-06 | 6.34E-06 | 6.34E-06 | 3.49E-06 | 3.14E-07 | 4.54E-06 | 2.82E-06 | 2.82E-06 | 1.40E-06 |
| 590 | 258790 | 4086453 | 3.83E-06 | 5.53E-05 | 4.08E-05 | 4.08E-05 | 2.27E-05 | 5.81E-07 | 8.43E-06 | 6.37E-06 | 6.37E-06 | 3.50E-05 | 3.25E-07 | 4.56E-06 | 2.83E-06 | 2.83E-06 | 1.40E-06 |
| 591 | 258767.5 | 4086463 | 3.84E-06 | 5.56E-06 | 4.10E-05 | 4.10E-05 | 2.28E-05 | 5.83E-07 | 8.47E-06 | 6.40E-06 | 6.40E-06 | 3.52E-06 | 3.17E-07 | 4.58E-06 | 2.85E-06 | 2.85E-06 | 1.41E-06 |
| 592 | 258745.1 | 4086473 | 3.86E-06 | 5.59E-06 | 4.12E-05 | 4.12E-06 | 2.30E-06 | 5.86E-07 | 8.51E-06 | 6.43E-06 | 6.43E-06 | 3.53E-06 | 3.18E-07 | 4.61E-06 | 2.86E-06 | 2.86E-06 | 1.42E-06 |
| 593 | 258722.6 | 4086484 | 3.88E-06 | 5.62E-06 | 4.14E-05 | 4.14E-05 | 2.31E-05 | 5.89E-07 | 8.56E-06 | 6.46E-06 | 6.46E-06 | 3.55E-06 | 3.20E-07 | 4.63E-06 | 2.88E-06 | 2.88E-06 | 1.42E-06 |
| 594 | 258700.2 | 4086494 | 3.91E-06 | 5.65E-06 | 4.16E-05 | 4.16E-05 | 2.32E-05 | 5.93E-07 | 8.61E-06 | 6.50E-06 | 6.50E-06 | 3.57E-06 | 3.22E-07 | 4.66E-06 | 2.89E-06 | 2.89E-06 | 1.43E-06 |
| 595 | 258677.7 | 4086504 | 3.93E-06 | 5.69E-06 | 4.19E-05 | 4.19E-05 | 2.34E-05 | 5.97E-07 | 8.66E-06 | 6.55E-06 | 6.55E-06 | 3.60E-06 | 3.24E-07 | 4.69E-06 | 2.91E-06 | 2.91E-06 | 1.44E-06 |
| 596 | 258655.3 | 4086515 | 3.96E-06 | 5.73E-06 | 4.22E-05 | 4.22E-05 | 2.36E-05 | 6.01E-07 | 8.73E-06 | 6.60E-06 | 6.60E-06 | 3.63E-06 | 3.27E-07 | 4.72E-06 | 2.93E-06 | 2.93E-06 | 1.45E-06 |
| 597 | 258632.8 | 4086525 | 4.00E-06 | 5.78E-06 | 4.26E-05 | 4.26E-05 | 2.37E-05 | 6.06E-07 | 8.80E-06 | 6.65E-06 | 6.65E-06 | 3.66E-06 | 3.29E-07 | 4.76E-06 | 2.96E-06 | 2.96E-06 | 1.46E-06 |
| 598 | 258610.4 | 4086536 | 4.03E-06 | 5.83E-06 | 4.30E-05 | 4.30E-05 | 2.40E-05 | 6.12E-07 | 8.88E-06 | 6.71E-06 | 6.71E-06 | 3.69E-06 | 3.32E-07 | 4.81E-06 | 2.98E-06 | 2.98E-06 | 1.48E-06 |
| 599 | 258588 | 4086546 | 4.07E-06 | 5.89E-05 | 4.34E-05 | 4.34E-05 | 2.42E-05 | 6.18E-07 | 8.97E-06 | 6.77E-06 | 6.77E-06 | 3.72E-06 | 3.35E-07 | 4.85E-06 | 3.01E-06 | 3.01E-06 | 1.49E-06 |
| 600 | 258565.5 | 4086556 | 4.11E-06 | 5.95E-06 | 4.38E-05 | 4.38E-05 | 2.44E-06 | 6.24E-07 | 9.06E-06 | 6.84E-06 | 6.84E-06 | 3.76E-06 | 3.39E-07 | 4.90E-06 | 3.04E-06 | 3.04E-06 | 1.51E-06 |
| 601 | 258543.1 | 4086567 | 4.15E-06 | 6.01E-05 | 4.43E-05 | 4.43E-05 | 2.47E-05 | 6.30E-07 | 9.15E-06 | 6.91E-06 | 6.91E-06 | 3.80E-06 | 3.42E-07 | 4.95E-06 | 3.08E-06 | 3.08E-06 | 1.52E-06 |
| 602 | 258520.6 | 4086577 | 4.20E-06 | 6.07E-06 | 4.47E-05 | 4.47E-05 | 2.49E-05 | 6.37E-07 | 9.25E-06 | 6.99E-06 | 6.99E-06 | 3.84E-06 | 3.46E-07 | 5.00E-06 | 3.11E-06 | 3.11E-06 | 1.54E-06 |
| 603 | 258498.2 | 4086588 | 4.24E-06 | 6.13E-05 | 4.52E-05 | 4.52E-05 | 2.52E-05 | 6.43E-07 | 9.34E-06 | 7.06E-06 | 7.06E-06 | 3.88E-06 | 3.49E-07 | 5.05E-06 | 3.14E-05 | 3.14E-06 | 1.55E-06 |
| 604 | 258475.7 | 4086598 | 4.28E-06 | 6.19E-05 | 4.56E-05 | 4.56E-05 | 2.54E-05 | 6.50E-07 | 9.43E-06 | 7.12E-06 | 7.12E-06 | 3.92E-06 | 3.53E-07 | 5.10E-06 | 3.17E-06 | 3.17E-06 | 1.57E-06 |
| 605 | 258453.3 | 4086608 | 4.32E-06 | 6.25E-05 | 4.60E-05 | 4.60E-05 | 2.57E-05 | 6.56E-07 | 9.52E-06 | 7.19E-06 | 7.19E-06 | 3.95E-06 | 3.56E-07 | 5.25E-06 | 3.20E-06 | 3.20E-06 | 1.58E-06 |
| 606 | 259863.8 | 4085076 | 4.20E-06 | 6.07E-05 | 4.47E-05 | 4.47E-05 | 2.49E-05 | 6.37E-07 | 9.25E-06 | 6.99E-06 | 6.99E-06 | 3.84E-06 | 3.46E-07 | 5.00E-06 | 3.11E-06 | 3.11E-06 | 1.54E-06 |
| 607 | 259863.1 | 4085052 | 4.25E-06 | 6.14E-05 | 4.53E-05 | 4.53E-05 | 2.52E-06 | 6.45E-07 | 9.36E-06 | 7.07E-06 | 7.07E-06 | 3.89E-06 | 3.50E-07 | 5.06E-06 | 3.25E-06 | 3.25E-06 | 1.56E-06 |
| 608 | 259862.4 | 4085027 | 4.31E-06 | 6.24E-05 | 4.60E-05 | 4.60E-05 | 2.56E-05 | 6.55E-07 | 9.50E-06 | 7.18E-06 | 7.18E-06 | 3.95E-06 | 3.56E-07 | 5.14E-06 | 3.19E-06 | 3.19E-06 | 1.58E-06 |
| 609 | 259861.7 | 4085002 | 4.40E-06 | 6.36E-05 | 4.69E-05 | 4.69E-05 | 2.61E-05 | 6.68E-07 | 9.69E-06 | 7.32E-06 | 7.32E-06 | 4.03E-06 | 3.63E-07 | 5.25E-06 | 3.26E-06 | 3.26E-06 | 1.61E-06 |
| 610 | 259860.9 | 4084977 | 4.50E-06 | 6.51E-05 | 4.80E-05 | 4.80E-05 | 2.68E-06 | 6.84E-07 | 9.92E-06 | 7.50E-06 | 7.50E-06 | 4.12E-06 | 3.71E-07 | 5.37E-06 | 3.34E-06 | 3.34E-06 | 1.65E-06 |
| 611 | 259860.2 | 4084953 | 4.62E-06 | 6.69E-06 | 4.93E-05 | 4.93E-05 | 2.75E-05 | 7.02E-07 | 1.02E-05 | 7.69E-06 | 7.69E-06 | 4.23E-06 | 3.81E-07 | 5.51E-06 | 3.42E-06 | 3.42E-06 | 1.69E-06 |
| 612 | 259859.5 | 4084928 | 4.76E-06 | 6.88E-05 | 5.07E-05 | 5.07E-05 | 2.83E-05 | 7.22E-07 | 1.05E-05 | 7.92E-06 | 7.92E-06 | 4.35E-06 | 3.92E-07 | 5.67E-06 | 3.52E-06 | 3.52E-06 | 1.74E-06 |
| 613 | 259858.8 | 4084903 | 4.90E-06 | 7.08E-05 | 5.22E-06 | 5.22E-05 | 2.91E-05 | 7.43E-07 | 1.08E-05 | 8.15E-06 | 8.15E-06 | 4.48E-06 | 4.04E-07 | 5.84E-06 | 3.63E-06 | 3.63E-06 | 1.80E-06 |
| 614 | 259858 | 4084878 | 5.04E-06 | 7.29E-05 | 5.37E-05 | 5.37E-05 | 2.99E-05 | 7.65E-07 | 1.11E-05 | 8.39E-06 | 8.39E-06 | 4.61E-06 | 4.15E-07 | 6.01E-06 | 3.73E-06 | 3.73E-06 | 1.85E-06 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 409 | 258658.1 | 4086106 | 5.41E-06 | 7.82E-05 | 5.76E-05 | 5.76E-05 | 3.21E-06 | 8.21E-07 | 1.19E-05 | 9.00E-06 | 9.00E-06 | 4.95E-06 | 4.46E-07 | 6.45E-06 | 4.00E-06 | 4.00E-06 | 1.98E-06 |
| 410 | 258635.8 | 4086116 | 5.46E-06 | 7.90E-05 | 5.82E-05 | 5.82E-05 | 3.24E-05 | 8.28E-07 | 1.20E-05 | 9.09E-06 | 9.09E-06 | 5.00E-06 | 4.50E-07 | 6.51E-06 | 4.04E-06 | 4.04E-06 | 2.00E-06 |
| 411 | 258613.6 | 4086126 | 5.51E-06 | 7.97E-05 | 5.88E-05 | 5.88E-05 | 3.28E-05 | 8.37E-07 | 1.21E-05 | 9.17E-06 | 9.17E-06 | 5.04E-06 | 4.54E-07 | 6.57E-06 | 4.08E-06 | 4.08E-06 | 2.02E-06 |
| 412 | 258591.3 | 4086137 | 5.57E-06 | 8.05E-05 | 5.94E-05 | 5.94E-05 | 3.31E-05 | 8.45E-07 | 1.23E-05 | 9.27E-06 | 9.27E-06 | 5.09E-06 | 4.59E-07 | 6.64E-06 | 4.12E-06 | 4.12E-06 | 2.04E-06 |
| 413 | 258569 | 4086147 | 5.63E-06 | 8.14E-06 | 6.00E-06 | 6.00E-05 | 3.35E-06 | 8.54E-07 | 1.24E-05 | 9.37E-06 | 9.37E-06 | 5.15E-06 | 4.64E-07 | 6.71E-06 | 4.17E-06 | 4.17E-06 | 2.06E-06 |
| 414 | 258546.8 | 4086157 | 5.69E-06 | 8.24E-05 | 6.07E-05 | 6.07E-05 | 3.38E-05 | 8.64E-07 | 1.25E-05 | 9.48E-06 | 9.48E-06 | 5.21E-06 | 4.69E-07 | 6.79E-06 | 4.22E-06 | 4.22E-06 | 2.09E-06 |
| 415 | 258524.5 | 4086168 | 5.77E-06 | 8.34E-05 | 6.15E-06 | 6.15E-06 | 3.43E-05 | 8.75E-07 | 1.27E-05 | 9.60E-06 | 9.60E-06 | 5.28E-06 | 4.75E-07 | 6.87E-06 | 4.27E-06 | 4.27E-06 | 2.11E-06 |
| 416 | 258502.2 | 4086178 | 5.84E-06 | 8.45E-06 | 6.23E-05 | 6.23E-06 | 3.47E-06 | 8.87E-07 | 1.29E-05 | 9.72E-06 | 9.72E-06 | 5.35E-06 | 4.82E-07 | 6.96E-06 | 4.33E-06 | 4.33E-06 | 2.14E-06 |
| 417 | 258479.9 | 4086188 | 5.93E-06 | 8.57E-05 | 6.32E-06 | 6.32E-05 | 3.52E-06 | 8.99E-07 | 1.31E-05 | 9.86E-06 | 9.86E-06 | 5.42E-06 | 4.88E-07 | 7.07E-06 | 4.39E-06 | 4.39E-06 | 2.17E-06 |
| 418 | 258457.7 | 4086198 | 6.01E-06 | 8.69E-05 | 6.40E-05 | 6.40E-06 | 3.57E-05 | 9.12E-07 | 1.32E-05 | 1.00E-05 | 1.00E-05 | 5.50E-06 | 4.95E-07 | 7.16E-06 | 4.45E-06 | 4.45E-06 | 2.20E-06 |
| 419 | 258435.4 | 4086209 | 6.10E-06 | 8.83E-05 | 6.51E-05 | 6.51E-05 | 3.63E-06 | 9.26E-07 | 1.35E-05 | 1.02E-06 | 1.02E-05 | 5.59E-06 | 5.03E-07 | 7.28E-06 | 4.52E-06 | 4.52E-06 | 2.24E-06 |
| 420 | 259464 | 4085088 | 6.24E-06 | 9.02E-05 | 6.65E-05 | 6.65E-05 | 3.71E-05 | 9.47E-07 | 1.37E-05 | 1.04E-05 | 1.04E-06 | 5.71E-06 | 5.14E-07 | 7.44E-06 | 4.62E-06 | 4.62E-06 | 2.29E-06 |
| 421 | 259463.3 | 4085063 | 6.36E-06 | 9.19E-05 | 6.78E-05 | 6.78E-05 | 3.78E-05 | 9.65E-07 | 1.40E-05 | 1.06E-05 | 1.06E-05 | 5.82E-06 | 5.24E-07 | 7.58E-06 | 4.71E-06 | 4.71E-06 | 2.33E-06 |
| 422 | 259462.6 | 4085039 | 6.51E-06 | 9.41E-05 | 6.94E-06 | 6.94E-05 | 3.87E-06 | 9.88E-07 | 1.43E-05 | 1.08E-06 | 1.08E-06 | 5.96E-06 | 5.36E-07 | 7.76E-06 | 4.82E-06 | 4.82E-06 | 2.39E-06 |
| 423 | 259461.8 | 4085014 | 6.68E-06 | 9.66E-05 | 7.12E-05 | 7.12E-05 | 3.97E-05 | 1.01E-06 | 1.47E-06 | 1.11E-05 | 1.11E-06 | 6.11E-06 | 5.51E-07 | 7.97E-06 | 4.95E-06 | 4.95E-06 | 2.45E-06 |
| 424 | 259461.1 | 4084989 | 6.89E-06 | 9.96E-06 | 7.34E-05 | 7.34E-06 | 4.09E-05 | 1.05E-06 | 1.52E-05 | 1.15E-06 | 1.15E-06 | 6.30E-06 | 5.68E-07 | 8.21E-06 | 5.10E-06 | 5.10E-06 | 2.52E-06 |
| 425 | 259460.4 | 4084964 | 7.12E-06 | 1.03E-04 | 7.59E-05 | 7.59E-05 | 4.23E-05 | 1.08E-06 | 1.57E-05 | 1.18E-06 | 1.18E-05 | 6.51E-06 | 5.87E-07 | 8.48E-06 | 5.27E-06 | 5.27E-06 | 2.61E-06 |
| 426 | 259459.7 | 4084939 | 7.37E-06 | 1.07E-04 | 7.85E-05 | 7.85E-05 | 4.38E-05 | 1.12E-06 | 1.62E-05 | 1.23E-06 | 1.23E-05 | 6.74E-06 | 6.07E-07 | 8.78E-06 | 5.46E-06 | 5.46E-06 | 2.70E-06 |
| 427 | 259458.9 | 4084915 | 7.62E-06 | 1.10E-04 | 8.13E-05 | 8.13E-05 | 4.53E-05 | 1.16E-06 | 1.68E-06 | 1.27E-06 | 1.27E-05 | 6.98E-06 | 6.28E-07 | 9.09E-06 | 5.65E-06 | 5.65E-06 | 2.79E-06 |
| 428 | 259458.2 | 4084890 | 7.88E-06 | 1.14E-04 | 8.40E-06 | 8.40E-05 | 4.69E-05 | 1.20E-06 | 1.74E-05 | 1.31E-05 | 1.31E-05 | 7.21E-06 | 6.50E-07 | 9.40E-06 | 5.84E-06 | 5.84E-06 | 2.89E-06 |
| 429 | 259655.2 | 4085105 | 5.01E-06 | 7.25E-05 | 5.34E-06 | 5.34E-05 | 2.98E-05 | 7.61E-07 | 1.10E-06 | 8.34E-06 | 8.34E-06 | 4.59E-06 | 4.13E-07 | 5.98E-06 | 3.71E-06 | 3.71E-06 | 1.84E-06 |
| 430 | 259646.6 | 4085128 | 5.00E-06 | 7.24E-05 | 5.33E-05 | 5.33E-05 | 2.97E-05 | 7.59E-07 | 1.10E-05 | 8.33E-06 | 8.33E-06 | 4.58E-06 | 4.12E-07 | 5.97E-06 | 3.71E-06 | 3.71E-06 | 1.83E-06 |
| 431 | 259637.9 | 4085151 | 4.99E-06 | 7.22E-05 | 5.32E-06 | 5.32E-06 | 2.97E-06 | 7.58E-07 | 1.10E-05 | 8.31E-06 | 8.31E-06 | 4.57E-06 | 4.12E-07 | 5.95E-06 | 3.70E-06 | 3.70E-06 | 1.83E-06 |
| 432 | 259629.2 | 4085174 | 4.97E-06 | 7.18E-05 | 5.30E-06 | 5.30E-05 | 2.95E-05 | 7.54E-07 | 1.09E-05 | 8.27E-06 | 8.27E-06 | 4.55E-06 | 4.09E-07 | 5.92E-06 | 3.68E-06 | 3.68E-06 | 1.82E-06 |
| 433 | 259620.5 | 4085198 | 4.93E-06 | 7.14E-05 | 5.26E-06 | 5.26E-06 | 2.93E-05 | 7.49E-07 | 1.09E-06 | 8.21E-06 | 8.21E-06 | 4.52E-06 | 4.07E-07 | 5.88E-06 | 3.65E-06 | 3.65E-06 | 1.81E-06 |
| 434 | 259611.8 | 4085221 | 4.89E-06 | 7.07E-05 | 5.21E-05 | 5.21E-05 | 2.91E-05 | 7.42E-07 | 1.08E-06 | 8.14E-06 | 8.14E-06 | 4.47E-06 | 4.03E-07 | 5.83E-06 | 3.62E-06 | 3.62E-06 | 1.79E-06 |
| 435 | 259603.2 | 4085244 | 4.83E-06 | 6.99E-05 | 5.15E-06 | 5.15E-06 | 2.87E-05 | 7.33E-07 | 1.06E-05 | 8.04E-06 | 8.04E-06 | 4.42E-06 | 3.98E-07 | 5.76E-06 | 3.58E-06 | 3.58E-06 | 1.77E-06 |
| 436 | 259594.5 | 4085267 | 4.76E-06 | 6.88E-05 | 5.07E-06 | 5.07E-05 | 2.83E-05 | 7.22E-07 | 1.05E-05 | 7.92E-06 | 7.92E-06 | 4.35E-06 | 3.92E-07 | 5.67E-06 | 3.52E-06 | 3.52E-06 | 1.74E-06 |
| 437 | 259585.8 | 4085290 | 4.67E-06 | 6.76E-05 | 4.98E-05 | 4.98E-05 | 2.78E-05 | 7.09E-07 | 1.03E-05 | 7.78E-06 | 7.78E-06 | 4.28E-06 | 3.85E-07 | 5.57E-06 | 3.46E-06 | 3.46E-06 | 1.71E-06 |
| 438 | 259577.1 | 4085313 | 4.59E-06 | 6.63E-05 | 4.89E-05 | 4.89E-05 | 2.73E-06 | 6.96E-07 | 1.01E-05 | 7.63E-06 | 7.63E-06 | 4.20E-06 | 3.78E-07 | 5.47E-06 | 3.40E-06 | 3.40E-06 | 1.68E-06 |
| 439 | 259568.5 | 4085336 | 4.49E-06 | 6.50E-05 | 4.79E-05 | 4.79E-05 | 2.67E-05 | 6.82E-07 | 9.90E-06 | 7.48E-06 | 7.48E-06 | 4.11E-06 | 3.70E-07 | 5.36E-06 | 3.33E-06 | 3.33E-06 | 1.65E-06 |
| 440 | 259559.8 | 4085359 | 4.40E-06 | 6.37E-05 | 4.69E-05 | 4.69E-05 | 2.62E-05 | 6.68E-07 | 9.70E-06 | 7.33E-06 | 7.33E-06 | 4.03E-06 | 3.63E-07 | 5.25E-06 | 3.26E-06 | 3.26E-06 | 1.61E-06 |
| 441 | 259551.1 | 4085382 | 4.32E-06 | 6.24E-05 | 4.60E-06 | 4.60E-05 | 2.56E-05 | 6.55E-07 | 9.51E-06 | 7.18E-06 | 7.18E-06 | 3.95E-06 | 3.56E-07 | 5.14E-06 | 3.20E-06 | 3.20E-06 | 1.58E-06 |
| 442 | 259542.4 | 4085405 | 4.23E-06 | 6.12E-05 | 4.51E-05 | 4.51E-05 | 2.51E-05 | 6.42E-07 | 9.32E-06 | 7.04E-06 | 7.04E-06 | 3.87E-06 | 3.49E-07 | 5.04E-06 | 3.13E-06 | 3.13E-06 | 1.55E-06 |
| 443 | 259533.8 | 4085428 | 4.15E-06 | 6.01E-05 | 4.43E-05 | 4.43E-05 | 2.47E-05 | 6.30E-07 | 9.15E-06 | 6.91E-06 | 6.91E-06 | 3.80E-06 | 3.42E-07 | 4.95E-06 | 3.08E-06 | 3.08E-06 | 1.52E-06 |
| 444 | 259525.1 | 4085451 | 4.08E-06 | 5.90E-05 | 4.35E-05 | 4.35E-05 | 2.43E-05 | 6.19E-07 | 8.99E-06 | 6.79E-06 | 6.79E-06 | 3.74E-06 | 3.36E-07 | 4.87E-06 | 3.02E-06 | 3.02E-06 | 1.50E-06 |
| 445 | 259516.4 | 4085474 | 4.02E-06 | 5.81E-05 | 4.28E-05 | 4.28E-05 | 2.39E-05 | 6.10E-07 | 8.85E-06 | 6.68E-06 | 6.68E-06 | 3.68E-06 | 3.31E-07 | 4.79E-06 | 2.97E-06 | 2.97E-06 | 1.47E-06 |
| 446 | 259507.7 | 4085497 | 3.96E-06 | 5.73E-05 | 4.22E-06 | 4.22E-05 | 2.35E-05 | 6.01E-07 | 8.73E-06 | 6.59E-06 | 6.59E-06 | 3.62E-06 | 3.26E-07 | 4.72E-06 | 2.93E-06 | 2.93E-06 | 1.45E-06 |
| 447 | 259499 | 4085521 | 3.91E-06 | 5.66E-05 | 4.17E-05 | 4.17E-05 | 2.32E-05 | 5.94E-07 | 8.62E-06 | 6.51E-06 | 6.51E-06 | 3.58E-06 | 3.22E-07 | 4.66E-06 | 2.90E-06 | 2.90E-06 | 1.43E-06 |
| 448 | 259490.4 | 4085544 | 3.87E-06 | 5.60E-05 | 4.12E-05 | 4.12E-05 | 2.30E-06 | 5.87E-07 | 8.52E-06 | 8.44E-06 | 6.44E-06 | 3.54E-06 | 3.19E-07 | 4.61E-06 | 2.87E-06 | 2.87E-06 | 1.42E-06 |
| 449 | 259481.7 | 4085567 | 3.83E-06 | 5.54E-05 | 4.08E-05 | 4.08E-05 | 2.28E-06 | 5.81E-07 | 8.44E-06 | 6.37E-06 | 6.37E-06 | 3.50E-06 | 3.16E-07 | 4.57E-06 | 2.84E-06 | 2.84E-06 | 1.40E-06 |
| 450 | 259473 | 4085590 | 3.79E-06 | 5.49E-05 | 4.04E-06 | 4.04E-05 | 2.25E-05 | 5.76E-07 | 8.36E-06 | 6.31E-06 | 6.31E-06 | 3.47E-06 | 3.13E-07 | 4.52E-06 | 2.81E-06 | 2.81E-06 | 1.39E-06 |
| 451 | 259464.3 | 4085613 | 3.76E-06 | 5.44E-05 | 4.01E-06 | 4.01E-05 | 2.23E-05 | 5.70E-07 | 8.28E-06 | 6.26E-06 | 6.26E-06 | 3.44E-06 | 3.10E-07 | 4.48E-06 | 2.78E-06 | 2.78E-06 | 1.38E-06 |
| 452 | 259455.7 | 4085636 | 3.73E-06 | 5.39E-05 | 3.97E-05 | 3.97E-06 | 2.21E-05 | 5.65E-07 | 8.21E-06 | 6.20E-06 | 6.20E-06 | 3.41E-06 | 3.07E-07 | 4.44E-06 | 2.76E-06 | 2.76E-06 | 1.37E-06 |
| 453 | 259447 | 4085659 | 3.69E-06 | 5.34E-06 | 3.93E-05 | 3.93E-05 | 2.19E-06 | 5.60E-07 | 8.13E-06 | 6.14E-06 | 6.14E-06 | 3.38E-06 | 3.04E-07 | 4.40E-06 | 2.73E-06 | 2.73E-06 | 1.35E-06 |
| 454 | 259438.3 | 4085682 | 3.66E-06 | 5.29E-05 | 3.90E-05 | 3.90E-05 | 2.17E-05 | 5.55E-07 | 8.06E-06 | 6.09E-06 | 6.09E-06 | 3.35E-06 | 3.01E-07 | 4.36E-06 | 2.71E-06 | 2.71E-06 | 1.34E-06 |
| 455 | 259429.6 | 4085705 | 3.62E-06 | 5.24E-05 | 3.86E-05 | 3.86E-05 | 2.15E-05 | 5.50E-07 | 7.98E-06 | 6.03E-06 | 6.03E-06 | 3.32E-06 | 2.99E-07 | 4.32E-06 | 2.68E-06 | 2.68E-06 | 1.33E-06 |
| 456 | 259421 | 4085728 | 3.59E-06 | 5.19E-05 | 3.82E-05 | 3.82E-05 | 2.13E-06 | 5.44E-07 | 7.90E-06 | 5.97E-06 | 5.97E-06 | 3.28E-06 | 2.96E-07 | 4.28E-06 | 2.66E-06 | 2.66E-06 | 1.31E-06 |
| 457 | 259412.3 | 4085751 | 3.55E-06 | 5.13E-06 | 3.78E-05 | 3.78E-05 | 2.11E-06 | 5.38E-07 | 7.82E-06 | 5.90E-06 | 5.90E-06 | 3.25E-06 | 2.92E-07 | 4.23E-06 | 2.63E-06 | 2.63E-06 | 1.30E-06 |
| 458 | 259403.6 | 4085774 | 3.50E-06 | 5.07E-06 | 3.74E-05 | 3.74E-05 | 2.08E-05 | 5.32E-07 | 7.72E-06 | 5.83E-06 | 5.83E-06 | 3.21E-06 | 2.89E-07 | 4.18E-06 | 2.59E-06 | 2.59E-06 | 1.28E-06 |
| 459 | 259394.9 | 4085797 | 3.46E-06 | 5.00E-05 | 3.69E-05 | 3.69E-05 | 2.06E-05 | 5.25E-07 | 7.62E-06 | 5.76E-06 | 5.76E-06 | 3.17E-06 | 2.85E-07 | 4.12E-06 | 2.56E-06 | 2.56E-06 | 1.27E-06 |
| 460 | 259386.2 | 4085820 | 3.41E-06 | 4.93E-06 | 3.63E-05 | 3.63E-05 | 2.03E-06 | 5.17E-07 | 7.51E-06 | 5.68E-06 | 5.68E-06 | 3.12E-06 | 2.81E-07 | 4.07E-06 | 2.53E-06 | 2.53E-06 | 1.25E-06 |
| 461 | 259377.6 | 4085843 | 3.36E-06 | 4.86E-06 | 3.58E-06 | 3.58E-06 | 2.00E-06 | 5.10E-07 | 7.40E-06 | 5.59E-06 | 5.59E-06 | 3.07E-06 | 2.77E-07 | 4.00E-06 | 2.49E-06 | 2.49E-06 | 1.23E-06 |
| 462 | 259368.9 | 4085867 | 3.31E-06 | 4.78E-05 | 3.53E-05 | 3.53E-05 | 1.97E-06 | 5.02E-07 | 7.29E-06 | 5.50E-06 | 5.50E-06 | 3.03E-06 | 2.73E-07 | 3.94E-06 | 2.45E-06 | 2.45E-06 | 1.21E-06 |
| 463 | 259360.2 | 4085890 | 3.26E-06 | 4.71E-05 | 3.47E-05 | 3.47E-05 | 1.94E-05 | 4.94E-07 | 7.18E-06 | 5.42E-06 | 5.42E-06 | 2.98E-06 | 2.69E-07 | 3.88E-06 | 2.41E-06 | 2.41E-06 | 1.19E-06 |
| 464 | 259351.5 | 4085913 | 3.21E-06 | 4.65E-05 | 3.43E-05 | 3.43E-05 | 1.91E-05 | 4.88E-07 | 7.08E-06 | 5.35E-06 | 5.35E-06 | 2.94E-06 | 2.65E-07 | 3.83E-06 | 2.38E-06 | 2.38E-06 | 1.18E-06 |
| 465 | 259342.9 | 4085936 | 3.17E-06 | 4.58E-05 | 3.38E-05 | 3.38E-05 | 1.88E-06 | 4.81E-07 | 6.98E-06 | 5.28E-06 | 5.28E-06 | 2.90E-06 | 2.61E-07 | 3.78E-06 | 2.35E-06 | 2.35E-06 | 1.16E-06 |
| 466 | 259334.2 | 4085959 | 3.14E-06 | 4.53E-06 | 3.34E-05 | 3.34E-05 | 1.86E-05 | 4.76E-07 | 6.91E-06 | 5.22E-06 | 5.22E-06 | 2.87E-06 | 2.58E-07 | 3.74E-06 | 2.32E-06 | 2.32E-06 | 1.15E-06 |
| 467 | 259325.5 | 4085982 | 3.10E-06 | 4.49E-06 | 3.31E-05 | 3.31E-05 | 1.85E-06 | 4.71E-07 | 6.84E-06 | 5.17E-06 | 5.17E-06 | 2.84E-06 | 2.56E-07 | 3.70E-06 | 2.30E-06 | 2.30E-06 | 1.14E-06 |
| 468 | 259294.5 | 4086015 | 3.11E-06 | 4.50E-05 | 3.31E-05 | 3.31E-05 | 1.85E-05 | 4.72E-07 | 6.85E-06 | 5.17E-06 | 5.17E-06 | 2.84E-06 | 2.56E-07 | 3.71E-06 | 2.30E-06 | 2.30E-06 | 1.14E-06 |
| 469 | 259272.1 | 4086026 | 3.14E-06 | 4.54E-06 | 3.35E-05 | 3.35E-05 | 1.87E-06 | 4.77E-07 | 6.92E-06 | 5.23E-06 | 5.23E-06 | 2.87E-06 | 2.59E-07 | 3.75E-06 | 2.33E-06 | 2.33E-06 | 1.15E-06 |
| 470 | 259249.7 | 4086036 | 3.17E-06 | 4.59E-05 | 3.38E-05 | 3.38E-05 | 1.89E-06 | 4.82E-07 | 6.99E-06 | 5.28E-06 | 5.28E-06 | 2.90E-06 | 2.62E-07 | 3.78E-06 | 2.35E-06 | 2.35E-06 | 1.16E-06 |
| 471 | 259227.3 | 4086046 | 3.21E-06 | 4.64E-06 | 3.42E-06 | 3.42E-05 | 1.91E-06 | 4.87E-07 | 7.07E-06 | 5.34E-06 | 5.34E-06 | 2.94E-06 | 2.65E-07 | 3.83E-06 | 2.38E-06 | 2.38E-06 | 1.18E-06 |
| 472 | 259205 | 4086057 | 3.24E-06 | 4.69E-06 | 3.46E-06 | 3.46E-05 | 1.93E-05 | 4.92E-07 | 7.14E-06 | 5.40E-06 | 5.40E-06 | 2.97E-06 | 2.67E-07 | 3.86E-06 | 2.40E-06 | 2.40E-06 | 1.19E-06 |
| 473 | 259182.6 | 4086067 | 3.27E-06 | 4.74E-06 | 3.49E-05 | 3.49E-05 | 1.95E-05 | 4.97E-07 | 7.22E-06 | 5.45E-06 | 5.45E-06 | 3.00E-06 | 2.70E-07 | 3.90E-06 | 2.42E-06 | 2.42E-06 | 1.20E-06 |
| 474 | 259160.2 | 4086077 | 3.31E-06 | 4.78E-05 | 3.53E-05 | 3.53E-05 | 1.97E-05 | 5.02E-07 | 7.29E-06 | 5.50E-06 | 5.50E-06 | 3.03E-06 | 2.73E-07 | 3.94E-06 | 2.45E-06 | 2.45E-06 | 1.21E-06 |
| 475 | 259137.9 | 4086088 | 3.35E-06 | 4.84E-05 | 3.57E-05 | 3.57E-05 | 1.99E-05 | 5.08E-07 | 7.37E-06 | 5.57E-06 | 5.57E-06 | 3.06E-06 | 2.76E-07 | 3.99E-06 | 2.48E-06 | 2.48E-06 | 1.23E-06 |
| 476 | 259115.5 | 4086098 | 3.39E-06 | 4.90E-05 | 3.61E-06 | 3.61E-06 | 2.01E-05 | 5.14E-07 | 7.46E-06 | 5.64E-06 | 5.64E-06 | 3.10E-06 | 2.79E-07 | 4.04E-06 | 2.51E-06 | 2.51E-06 | 1.24E-06 |
| 477 | 259093.1 | 4086108 | 3.43E-06 | 4.96E-05 | 3.66E-05 | 3.66E-06 | 2.04E-06 | 5.21E-07 | 7.56E-06 | 5.71E-06 | 5.71E-06 | 3.14E-06 | 2.83E-07 | 4.09E-06 | 2.54E-06 | 2.54E-06 | 1.26E-06 |
| 478 | 259070.7 | 4086119 | 3.48E-06 | 5.03E-05 | 3.71E-05 | 3.71E-05 | 2.07E-05 | 5.28E-07 | 7.66E-06 | 5.79E-06 | 5.79E-06 | 3.18E-06 | 2.87E-07 | 4.15E-06 | 2.58E-06 | 2.58E-06 | 1.27E-06 |
| 479 | 259048.4 | 4086129 | 3.53E-06 | 5.11E-05 | 3.76E-05 | 3.76E-06 | 2.10E-06 | 5.36E-07 | 7.78E-06 | 5.88E-06 | 5.88E-06 | 3.23E-06 | 2.91E-07 | 4.21E-06 | 2.61E-06 | 2.61E-06 | 1.29E-06 |
| 480 | 259026 | 4086139 | 3.59E-06 | 5.19E-05 | 3.83E-05 | 3.83E-05 | 2.13E-05 | 5.45E-07 | 7.91E-06 | 5.98E-06 | 5.98E-06 | 3.29E-06 | 2.96E-07 | 4.28E-06 | 2.66E-06 | 2.66E-06 | 1.32E-06 |
| 481 | 259003.6 | 4086150 | 3.66E-06 | 5.29E-05 | 3.90E-05 | 3.90E-05 | 2.17E-05 | 5.55E-07 | 8.06E-06 | 6.09E-06 | 6.09E-06 | 3.35E-06 | 3.01E-07 | 4.36E-06 | 2.71E-06 | 2.71E-06 | 1.34E-06 |
| 482 | 258981.3 | 4086160 | 3.73E-06 | 5.40E-05 | 3.98E-05 | 3.98E-05 | 2.22E-05 | 5.67E-07 | 8.23E-06 | 6.21E-06 | 6.21E-06 | 3.42E-06 | 3.08E-07 | 4.45E-06 | 2.76E-06 | 2.76E-06 | 1.37E-06 |
| 483 | 258958.9 | 4086171 | 3.82E-06 | 5.52E-05 | 4.07E-05 | 4.07E-06 | 2.27E-05 | 5.79E-07 | 8.41E-06 | 6.35E-06 | 6.35E-06 | 3.49E-06 | 3.15E-07 | 4.55E-06 | 2.83E-06 | 2.83E-06 | 1.40E-06 |
| 484 | 258936.5 | 4086181 | 3.91E-06 | 5.65E-05 | 4.16E-06 | 4.16E-06 | 2.32E-05 | 5.93E-07 | 8.61E-06 | 6.50E-06 | 6.50E-06 | 3.57E-06 | 3.22E-07 | 4.66E-05 | 2.89E-06 | 2.89E-06 | 1.43E-06 |
| 485 | 258914.2 | 4086191 | 4.00E-06 | 5.78E-05 | 4.26E-05 | 4.26E-06 | 2.37E-05 | 6.06E-07 | 8.80E-06 | 6.65E-06 | 6.65E-06 | 3.66E-06 | 3.29E-07 | 4.76E-06 | 2.96E-06 | 2.96E-06 | 1.46E-06 |
| 486 | 258891.8 | 4086202 | 4.08E-06 | 5.91E-05 | 4.35E-05 | 4.35E-05 | 2.43E-05 | 6.20E-07 | 9.00E-06 | 6.80E-06 | 6.80E-06 | 3.74E-06 | 3.37E-07 | 4.87E-06 | 3.02E-06 | 3.02E-06 | 1.50E-06 |
| 487 | 258869.4 | 4086212 | 4.17E-06 | 6.03E-05 | 4.44E-05 | 4.44E-05 | 2.48E-05 | 6.33E-07 | 9.18E-06 | 6.94E-06 | 6.94E-06 | 3.81E-06 | 3.44E-07 | 4.97E-06 | 3.09E-06 | 3.09E-06 | 1.53E-06 |
| 488 | 258847 | 4086222 | 4.24E-06 | 6.13E-05 | 4.52E-05 | 4.52E-05 | 2.52E-05 | 6.43E-07 | 9.34E-06 | 7.06E-06 | 7.06E-06 | 3.88E-06 | 3.49E-07 | 5.05E-06 | 3.14E-06 | 3.14E-06 | 1.55E-06 |
| 489 | 258824.7 | 4086233 | 4.30E-06 | 6.22E-05 | 4.59E-05 | 4.59E-05 | 2.56E-05 | 6.53E-07 | 9.48E-06 | 7.16E-06 | 7.18E-06 | 3.94E-06 | 3.55E-07 | 5.13E-06 | 3.19E-06 | 3.19E-06 | 1.58E-06 |
| 490 | 258802.3 | 4086243 | 4.35E-06 | 6.30E-06 | 4.64E-05 | 4.64E-05 | 2.59E-05 | 6.61E-07 | 9.59E-06 | 7.25E-06 | 7.25E-06 | 3.98E-06 | 3.59E-07 | 5.19E-06 | 3.22E-06 | 3.22E-06 | 1.60E-06 |
| 491 | 258779.9 | 4086253 | 4.40E-06 | 6.36E-05 | 4.69E-05 | 4.69E-06 | 2.61E-06 | 6.67E-07 | 9.69E-06 | 7.32E-06 | 7.32E-06 | 4.02E-06 | 3.62E-07 | 5.24E-06 | 3.26E-06 | 3.26E-06 | 1.61E-06 |
| 492 | 258757.6 | 4086264 | 4.43E-06 | 6.41E-06 | 4.72E-05 | 4.72E-05 | 2.63E-05 | 6.72E-07 | 9.76E-06 | 7.37E-06 | 7.37E-06 | 4.05E-06 | 3.65E-07 | 5.28E-06 | 3.28E-06 | 3.28E-06 | 1.62E-06 |
| 493 | 258735.2 | 4086274 | 4.46E-06 | 6.45E-06 | 4.76E-06 | 4.76E-05 | 2.65E-05 | 6.77E-07 | 9.83E-06 | 7.43E-06 | 7.43E-06 | 4.08E-06 | 3.68E-07 | 5.32E-06 | 3.30E-06 | 3.30E-06 | 1.64E-06 |
| 494 | 258712.8 | 4086284 | 4.49E-06 | 6.49E-05 | 4.78E-05 | 4.78E-05 | 2.67E-05 | 6.81E-07 | 9.89E-06 | 7.47E-06 | 7.47E-06 | 4.11E-06 | 3.70E-07 | 5.35E-06 | 3.32E-06 | 3.32E-06 | 1.64E-06 |
| 495 | 258690.4 | 4086295 | 4.51E-06 | 6.53E-05 | 4.81E-05 | 4.81E-05 | 2.68E-05 | 6.85E-07 | 9.95E-06 | 7.51E-06 | 7.51E-06 | 4.13E-06 | 3.72E-07 | 5.38E-06 | 3.34E-06 | 3.34E-06 | 1.65E-06 |
| 496 | 258668.1 | 4086305 | 4.54E-06 | 6.57E-05 | 4.85E-05 | 4.85E-05 | 2.70E-06 | 6.90E-07 | 1.00E-05 | 7.56E-06 | 7.56E-06 | 4.16E-06 | 3.75E-07 | 5.42E-06 | 3.37E-06 | 3.37E-06 | 1.67E-06 |
| 497 | 258645.7 | 4086315 | 4.58E-06 | 6.62E-05 | 4.88E-06 | 4.88E-06 | 2.72E-05 | 6.95E-07 | 1.01E-05 | 7.62E-06 | 7.62E-06 | 4.19E-06 | 3.77E-07 | 5.46E-06 | 3.39E-06 | 3.39E-06 | 1.68E-06 |
| 498 | 258623.3 | 4086326 | 4.62E-06 | 6.68E-06 | 4.92E-06 | 4.92E-05 | 2.74E-05 | 7.01E-07 | 1.02E-05 | 7.68E-06 | 7.68E-06 | 4.22E-06 | 3.81E-07 | 5.50E-06 | 3.42E-06 | 3.42E-06 | 1.69E-06 |
| 499 | 258601 | 4086336 | 4.66E-06 | 6.74E-05 | 4.97E-06 | 4.97E-05 | 2.77E-05 | 7.07E-07 | 1.03E-05 | 7.76E-06 | 7.76E-06 | 4.26E-06 | 3.84E-07 | 5.56E-06 | 3.45E-06 | 3.45E-06 | 1.71E-06 |
| 500 | 258578.6 | 4086346 | 4.71E-06 | 6.81E-05 | 5.02E-06 | 5.02E-05 | 2.80E-05 | 7.15E-07 | 1.04E-05 | 7.84E-06 | 7.84E-06 | 4.31E-06 | 3.88E-07 | 5.61E-06 | 3.49E-06 | 3.49E-06 | 1.73E-06 |
| 501 | 258556.2 | 4086357 | 4.76E-06 | 6.88E-05 | 5.07E-06 | 5.07E-05 | 2.83E-06 | 7.22E-07 | 1.05E-05 | 7.92E-06 | 7.92E-06 | 4.36E-06 | 3.92E-07 | 5.68E-06 | 3.53E-06 | 3.53E-06 | 1.74E-06 |
| 502 | 258533.8 | 4086367 | 4.82E-06 | 6.96E-05 | 5.13E-06 | 5.13E-05 | 2.86E-05 | 7.31E-07 | 1.06E-05 | 8.02E-06 | 8.02E-06 | 4.41E-06 | 3.97E-07 | 5.74E-06 | 3.57E-06 | 3.57E-06 | 1.77E-06 |
| 503 | 258511.5 | 4086377 | 4.87E-06 | 7.05E-05 | 5.19E-06 | 5.19E-05 | 2.90E-05 | 7.40E-07 | 1.07E-05 | 8.11E-06 | 8.11E-06 | 4.46E-06 | 4.02E-07 | 5.81E-06 | 3.61E-06 | 3.61E-06 | 1.79E-06 |
| 504 | 258489.1 | 4086388 | 4.93E-06 | 7.13E-05 | 5.26E-05 | 5.26E-05 | 2.93E-05 | 7.49E-07 | 1.09E-05 | 8.21E-06 | 8.21E-06 | 4.51E-06 | 4.07E-07 | 5.88E-06 | 3.65E-06 | 3.65E-06 | 1.81E-06 |
| 505 | 258466.7 | 4086398 | 4.99E-06 | 7.22E-05 | 5.32E-05 | 5.32E-05 | 2.97E-05 | 7.58E-07 | 1.10E-06 | 8.31E-06 | 8.31E-06 | 4.57E-06 | 4.12E-07 | 5.95E-06 | 3.70E-06 | 3.70E-06 | 1.83E-06 |
| 506 | 258444.4 | 4086408 | 5.05E-06 | 7.31E-06 | 5.39E-06 | 5.39E-05 | 3.00E-05 | 7.67E-07 | 1.11E-06 | 8.41E-06 | 8.41E-06 | 4.62E-06 | 4.17E-07 | 6.02E-06 | 3.74E-06 | 3.74E-06 | 1.85E-06 |
| 507 | 259663.9 | 4085082 | 5.03E-06 | 7.27E-06 | 5.36E-05 | 5.36E-05 | 2.99E-05 | 7.63E-07 | 1.11E-05 | 8.37E-06 | 8.37E-06 | 4.60E-06 | 4.14E-07 | 5.99E-06 | 3.72E-06 | 3.72E-06 | 1.84E-06 |
| 508 | 259663.2 | 4085057 | 5.10E-06 | 7.38E-05 | 5.44E-06 | 5.44E-06 | 3.03E-05 | 7.74E-07 | 1.12E-05 | 8.49E-06 | 8.49E-06 | 4.67E-06 | 4.21E-07 | 6.08E-06 | 3.78E-06 | 3.78E-06 | 1.87E-06 |
| 509 | 259662.5 | 4085033 | 5.20E-06 | 7.52E-05 | 5.54E-05 | 5.54E-05 | 3.09E-06 | 7.89E-07 | 1.15E-05 | 8.65E-06 | 8.65E-06 | 4.76E-06 | 4.28E-07 | 6.20E-06 | 3.85E-06 | 3.85E-06 | 1.90E-06 |
| 510 | 259661.7 | 4085008 | 5.31E-06 | 7.68E-05 | 5.66E-06 | 5.66E-05 | 3.16E-05 | 8.06E-07 | 1.17E-06 | 8.84E-06 | 8.84E-06 | 4.86E-06 | 4.38E-07 | 6.33E-06 | 3.93E-06 | 3.93E-06 | 1.95E-06 |
| 511 | 259661 | 4084983 | 5.45E-06 | 7.88E-05 | 5.81E-06 | 5.81E-05 | 3.24E-05 | 8.27E-07 | 1.20E-05 | 9.07E-06 | 9.07E-06 | 4.99E-06 | 4.49E-07 | 6.50E-06 | 4.04E-06 | 4.04E-06 | 2.00E-06 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 306 | 259126.8 | 4085459 | 6.09E-06 | 8.81E-05 | 6.50E-05 | 6.50E-05 | 3.62E-05 | | 9.25E-07 | 1.34E-05 | 1.01E-05 | 1.01E-05 | 5.58E-06 | | 5.02E-07 | 7.27E-06 | 4.51E-06 | 4.51E-06 | 2.23E-06 |
| 307 | 259118.2 | 4085482 | 5.99E-06 | 8.67E-05 | 6.39E-05 | 6.39E-05 | 3.56E-05 | | 9.10E-07 | 1.32E-05 | 9.98E-06 | 9.98E-06 | 5.48E-06 | | 4.94E-07 | 7.15E-06 | 4.44E-06 | 4.44E-06 | 2.20E-06 |
| 308 | 259109.6 | 4085505 | 5.89E-06 | 8.52E-05 | 6.28E-05 | 6.28E-05 | 3.50E-05 | | 8.94E-07 | 1.30E-05 | 9.81E-06 | 9.81E-06 | 5.39E-06 | | 4.86E-07 | 7.02E-06 | 4.36E-06 | 4.36E-06 | 2.16E-06 |
| 309 | 259101 | 4085527 | 5.79E-06 | 8.37E-05 | 6.17E-05 | 6.17E-05 | 3.44E-05 | | 8.79E-07 | 1.28E-05 | 9.64E-06 | 9.64E-06 | 5.30E-06 | | 4.77E-07 | 6.90E-06 | 4.29E-06 | 4.29E-06 | 2.12E-06 |
| 310 | 259092.4 | 4085550 | 5.69E-06 | 8.22E-05 | 6.06E-05 | 6.06E-05 | 3.38E-05 | | 8.63E-07 | 1.25E-05 | 9.46E-06 | 9.46E-06 | 5.20E-06 | | 4.69E-07 | 6.78E-06 | 4.21E-06 | 4.21E-06 | 2.08E-06 |
| 311 | 259083.9 | 4085573 | 5.58E-06 | 8.07E-05 | 5.95E-05 | 5.95E-05 | 3.32E-05 | | 8.47E-07 | 1.23E-05 | 9.29E-06 | 9.29E-06 | 5.11E-06 | | 4.60E-07 | 6.65E-06 | 4.13E-06 | 4.13E-06 | 2.05E-06 |
| 312 | 259075.3 | 4085596 | 5.47E-06 | 7.92E-05 | 5.83E-05 | 5.83E-05 | 3.25E-05 | | 8.31E-07 | 1.21E-05 | 9.11E-06 | 9.11E-06 | 5.01E-06 | | 4.51E-07 | 6.53E-06 | 4.06E-06 | 4.05E-06 | 2.01E-06 |
| 313 | 259066.7 | 4085619 | 5.37E-06 | 7.76E-05 | 5.72E-05 | 5.72E-05 | 3.19E-05 | | 8.14E-07 | 1.18E-05 | 8.93E-06 | 8.93E-06 | 4.91E-06 | | 4.42E-07 | 6.40E-06 | 3.97E-06 | 3.97E-06 | 1.97E-06 |
| 314 | 259058.1 | 4085641 | 5.26E-06 | 7.61E-05 | 5.61E-05 | 5.61E-06 | 3.13E-05 | | 7.99E-07 | 1.16E-05 | 8.76E-06 | 8.76E-06 | 4.82E-06 | | 4.34E-07 | 6.28E-06 | 3.90E-06 | 3.90E-06 | 1.93E-06 |
| 315 | 259049.5 | 4085664 | 5.17E-06 | 7.47E-05 | 5.51E-05 | 5.51E-05 | 3.07E-05 | | 7.84E-07 | 1.14E-05 | 8.60E-06 | 8.60E-06 | 4.73E-06 | | 4.26E-07 | 6.16E-06 | 3.83E-06 | 3.83E-06 | 1.89E-06 |
| 316 | 259041 | 4085687 | 5.08E-06 | 7.34E-05 | 5.41E-05 | 5.41E-05 | 3.02E-05 | | 7.70E-07 | 1.12E-05 | 8.45E-06 | 8.45E-06 | 4.64E-06 | | 4.18E-07 | 6.05E-06 | 3.76E-06 | 3.76E-06 | 1.86E-06 |
| 317 | 259032.4 | 4085710 | 4.99E-06 | 7.22E-05 | 5.32E-06 | 5.32E-05 | 2.97E-05 | | 7.58E-07 | 1.10E-05 | 8.31E-06 | 8.31E-06 | 4.57E-06 | | 4.11E-07 | 5.95E-06 | 3.70E-06 | 3.70E-06 | 1.83E-06 |
| 318 | 259001.7 | 4085743 | 4.98E-06 | 7.20E-05 | 5.30E-05 | 5.30E-05 | 2.96E-05 | | 7.55E-07 | 1.10E-05 | 8.28E-06 | 8.28E-06 | 4.55E-06 | | 4.10E-07 | 5.93E-06 | 3.68E-06 | 3.68E-06 | 1.82E-06 |
| 319 | 258979.5 | 4085753 | 5.04E-06 | 7.29E-05 | 5.37E-05 | 5.37E-05 | 2.99E-05 | | 7.65E-07 | 1.11E-05 | 8.39E-06 | 8.39E-06 | 4.61E-06 | | 4.25E-07 | 6.01E-05 | 3.73E-06 | 3.73E-06 | 1.85E-06 |
| 320 | 258957.4 | 4085763 | 5.11E-06 | 7.39E-05 | 5.44E-05 | 5.44E-05 | 3.03E-05 | | 7.75E-07 | 1.13E-06 | 8.50E-06 | 8.50E-06 | 4.67E-06 | | 4.21E-07 | 6.09E-06 | 3.76E-06 | 3.78E-06 | 1.87E-06 |
| 321 | 258935.3 | 4085774 | 5.18E-06 | 7.49E-05 | 5.52E-05 | 5.52E-05 | 3.08E-05 | | 7.86E-07 | 1.14E-05 | 8.62E-06 | 8.62E-06 | 4.74E-06 | | 4.27E-07 | 6.17E-06 | 3.83E-06 | 3.83E-06 | 1.90E-06 |
| 322 | 258913.2 | 4085784 | 5.25E-06 | 7.60E-05 | 5.60E-05 | 5.60E-05 | 3.12E-06 | | 7.97E-07 | 1.16E-05 | 8.75E-06 | 8.75E-06 | 4.81E-06 | | 4.33E-07 | 6.26E-06 | 3.89E-06 | 3.89E-06 | 1.93E-06 |
| 323 | 258891 | 4085794 | 5.34E-06 | 7.72E-05 | 5.69E-06 | 5.69E-05 | 3.17E-05 | | 8.10E-07 | 1.16E-05 | 8.88E-06 | 8.88E-06 | 4.88E-06 | | 4.40E-07 | 6.36E-06 | 3.95E-05 | 3.95E-06 | 1.96E-06 |
| 324 | 258868.9 | 4085804 | 5.42E-06 | 7.84E-05 | 5.78E-06 | 5.78E-05 | 3.22E-05 | | 8.23E-07 | 1.20E-05 | 9.03E-06 | 9.03E-06 | 4.96E-06 | | 4.47E-07 | 6.47E-06 | 4.02E-06 | 4.02E-06 | 1.99E-06 |
| 325 | 258846.8 | 4085815 | 5.52E-06 | 7.99E-05 | 5.89E-05 | 5.89E-05 | 3.28E-05 | | 8.38E-07 | 1.22E-06 | 9.19E-06 | 9.19E-06 | 5.05E-06 | | 4.55E-07 | 6.58E-06 | 4.09E-06 | 4.09E-06 | 2.02E-06 |
| 326 | 258824.7 | 4085825 | 5.64E-06 | 8.25E-05 | 6.01E-06 | 6.01E-05 | 3.35E-05 | | 8.55E-07 | 1.24E-05 | 9.38E-06 | 9.38E-06 | 5.16E-06 | | 4.64E-07 | 6.72E-06 | 4.17E-06 | 4.17E-06 | 2.07E-06 |
| 327 | 258802.5 | 4085835 | 5.76E-06 | 8.33E-05 | 6.14E-05 | 6.14E-05 | 3.42E-05 | | 8.74E-07 | 1.27E-05 | 9.58E-06 | 9.58E-06 | 5.27E-06 | | 4.75E-07 | 6.86E-06 | 4.26E-06 | 4.26E-06 | 2.11E-06 |
| 328 | 258780.4 | 4085845 | 5.89E-06 | 8.52E-05 | 6.28E-05 | 6.28E-05 | 3.50E-05 | | 8.94E-07 | 1.30E-05 | 9.81E-06 | 9.81E-06 | 5.39E-06 | | 4.86E-07 | 7.02E-06 | 4.36E-06 | 4.36E-06 | 2.16E-06 |
| 329 | 258758.3 | 4085856 | 6.04E-06 | 8.73E-05 | 6.44E-05 | 6.44E-05 | 3.59E-05 | | 9.16E-07 | 1.33E-05 | 1.00E-05 | 1.00E-05 | 5.52E-06 | | 4.98E-07 | 7.20E-06 | 4.47E-06 | 4.47E-06 | 2.21E-06 |
| 330 | 258736.2 | 4085866 | 6.16E-06 | 8.94E-05 | 6.59E-06 | 6.59E-05 | 3.67E-05 | | 9.38E-07 | 1.36E-05 | 1.03E-05 | 1.03E-05 | 5.66E-06 | | 5.09E-07 | 7.37E-06 | 4.58E-06 | 4.58E-06 | 2.27E-06 |
| 331 | 258714 | 4085876 | 6.31E-06 | 9.13E-05 | 6.73E-06 | 6.73E-05 | 3.75E-05 | | 9.58E-07 | 1.39E-06 | 1.05E-05 | 1.06E-05 | 5.78E-06 | | 5.20E-07 | 7.53E-06 | 4.68E-06 | 4.68E-06 | 2.31E-06 |
| 332 | 258691.9 | 4085886 | 6.44E-06 | 9.31E-05 | 6.87E-06 | 6.87E-05 | 3.83E-05 | | 9.77E-07 | 1.42E-05 | 1.07E-05 | 1.07E-05 | 5.89E-06 | | 5.31E-07 | 7.68E-06 | 4.77E-06 | 4.77E-06 | 2.36E-06 |
| 333 | 258669.8 | 4085896 | 6.55E-06 | 9.47E-05 | 6.98E-05 | 6.98E-05 | 3.89E-05 | | 9.94E-07 | 1.44E-05 | 1.09E-05 | 1.09E-05 | 5.99E-06 | | 5.40E-07 | 7.81E-06 | 4.85E-06 | 4.85E-06 | 2.40E-06 |
| 334 | 258647.7 | 4085907 | 6.65E-06 | 9.62E-06 | 7.09E-05 | 7.09E-05 | 3.95E-05 | | 1.01E-06 | 1.47E-05 | 1.11E-05 | 1.11E-05 | 6.09E-06 | | 5.48E-07 | 7.93E-06 | 4.93E-06 | 4.93E-06 | 2.44E-06 |
| 335 | 258625.5 | 4085917 | 6.75E-06 | 9.76E-06 | 7.19E-05 | 7.19E-05 | 4.01E-05 | | 1.02E-06 | 1.49E-05 | 1.12E-05 | 1.12E-06 | 6.17E-06 | | 5.56E-07 | 8.04E-06 | 5.00E-06 | 5.00E-06 | 2.47E-06 |
| 336 | 258603.4 | 4085927 | 6.84E-06 | 9.89E-05 | 7.29E-05 | 7.29E-05 | 4.07E-05 | | 1.04E-06 | 1.51E-05 | 1.14E-05 | 1.14E-05 | 6.26E-06 | | 5.64E-07 | 8.15E-06 | 5.07E-06 | 5.07E-06 | 2.51E-06 |
| 337 | 258581.3 | 4085937 | 6.93E-06 | 1.00E-04 | 7.39E-05 | 7.39E-05 | 4.12E-05 | | 1.05E-06 | 1.53E-05 | 1.15E-05 | 1.25E-05 | 6.35E-06 | | 5.72E-07 | 8.27E-06 | 5.14E-06 | 5.14E-06 | 2.54E-06 |
| 338 | 258559.2 | 4085948 | 7.03E-06 | 1.02E-04 | 7.50E-05 | 7.50E-05 | 4.18E-05 | | 1.07E-06 | 1.55E-06 | 1.17E-05 | 1.17E-05 | 6.44E-06 | | 5.80E-07 | 8.38E-06 | 5.21E-06 | 5.21E-06 | 2.58E-06 |
| 339 | 258537 | 4085958 | 7.14E-06 | 1.03E-04 | 7.61E-05 | 7.61E-05 | 4.24E-05 | | 1.08E-06 | 1.57E-05 | 1.19E-05 | 1.19E-05 | 6.53E-06 | | 5.88E-07 | 8.51E-06 | 5.29E-06 | 5.29E-06 | 2.82E-06 |
| 340 | 258514.9 | 4085968 | 7.25E-06 | 1.05E-04 | 7.73E-06 | 7.73E-05 | 4.31E-05 | | 1.10E-06 | 1.60E-05 | 1.21E-05 | 1.21E-05 | 6.63E-06 | | 5.98E-07 | 8.64E-06 | 5.37E-06 | 5.37E-06 | 2.66E-06 |
| 341 | 258492.8 | 4085978 | 7.37E-06 | 1.07E-04 | 7.85E-06 | 7.85E-05 | 4.38E-05 | | 1.12E-06 | 1.62E-05 | 1.23E-05 | 1.23E-05 | 6.74E-06 | | 6.07E-07 | 8.78E-06 | 5.46E-06 | 5.46E-06 | 2.70E-06 |
| 342 | 258470.7 | 4085989 | 7.49E-06 | 1.08E-04 | 7.98E-05 | 7.98E-05 | 4.45E-05 | | 1.14E-06 | 1.65E-05 | 1.25E-05 | 1.25E-05 | 6.85E-06 | | 6.17E-07 | 8.93E-06 | 5.54E-06 | 5.54E-06 | 2.74E-06 |
| 343 | 258448.5 | 4085999 | 7.61E-06 | 1.10E-04 | 8.11E-05 | 8.11E-05 | 4.52E-05 | | 1.16E-06 | 1.68E-06 | 1.27E-05 | 1.27E-05 | 6.96E-06 | | 6.27E-07 | 9.07E-06 | 5.64E-06 | 5.64E-06 | 2.79E-06 |
| 344 | 258426.4 | 4086009 | 7.74E-06 | 1.12E-04 | 8.25E-05 | 8.25E-05 | 4.60E-05 | | 1.17E-06 | 1.70E-05 | 1.29E-06 | 1.29E-05 | 7.08E-06 | | 6.38E-07 | 9.22E-06 | 5.73E-06 | 5.73E-06 | 2.84E-06 |
| 345 | 259264.1 | 4085094 | 8.16E-06 | 1.18E-04 | 8.70E-05 | 8.70E-05 | 4.85E-05 | | 1.24E-06 | 1.80E-05 | 1.36E-05 | 1.36E-05 | 7.46E-05 | | 6.72E-07 | 9.73E-06 | 6.04E-06 | 6.04E-06 | 2.99E-06 |
| 346 | 259263.4 | 4085069 | 8.37E-06 | 1.21E-04 | 8.92E-05 | 8.92E-05 | 4.97E-05 | | 1.27E-06 | 1.84E-05 | 1.39E-05 | 1.39E-05 | 7.66E-06 | | 6.90E-07 | 9.98E-06 | 6.20E-06 | 6.20E-06 | 3.07E-06 |
| 347 | 259262.6 | 4085044 | 8.61E-06 | 1.25E-04 | 9.18E-06 | 9.18E-05 | 5.12E-05 | | 1.31E-06 | 1.90E-05 | 1.43E-05 | 1.43E-05 | 7.88E-06 | | 7.10E-07 | 1.03E-06 | 6.38E-06 | 6.38E-06 | 3.16E-06 |
| 348 | 259261.9 | 4085020 | 8.89E-06 | 1.29E-04 | 9.47E-05 | 9.47E-05 | 5.28E-05 | | 1.35E-06 | 1.96E-05 | 1.48E-05 | 1.48E-05 | 8.13E-06 | | 7.33E-07 | 1.06E-05 | 6.58E-06 | 6.58E-06 | 3.26E-06 |
| 349 | 259261.2 | 4084995 | 9.20E-06 | 1.33E-04 | 9.81E-05 | 9.81E-05 | 5.47E-05 | | 1.40E-06 | 2.03E-05 | 1.53E-05 | 1.53E-05 | 8.42E-06 | | 7.59E-07 | 1.10E-05 | 6.82E-06 | 6.82E-06 | 3.37E-06 |
| 350 | 259260.5 | 4084970 | 9.56E-06 | 1.38E-04 | 1.02E-04 | 1.02E-04 | 5.68E-05 | | 1.45E-06 | 2.11E-05 | 1.59E-05 | 1.59E-05 | 8.75E-06 | | 7.68E-07 | 1.14E-05 | 7.08E-06 | 7.08E-06 | 3.50E-06 |
| 351 | 259259.7 | 4084945 | 9.94E-06 | 1.44E-04 | 1.06E-04 | 1.06E-04 | 5.91E-05 | | 1.51E-06 | 2.19E-05 | 1.65E-06 | 1.65E-06 | 9.09E-06 | | 8.19E-07 | 1.18E-05 | 7.36E-06 | 7.36E-06 | 3.64E-06 |
| 352 | 259259 | 4084921 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.14E-05 | | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.46E-06 | | 8.52E-07 | 1.23E-05 | 7.65E-06 | 7.65E-06 | 3.79E-06 |
| 353 | 259258.3 | 4084896 | 1.07E-05 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 6.38E-05 | | 1.63E-06 | 2.37E-05 | 1.79E-05 | 1.79E-05 | 9.83E-06 | | 8.85E-07 | 1.28E-05 | 7.95E-06 | 7.95E-06 | 3.94E-06 |
| 354 | 259455.4 | 4085111 | 6.21E-06 | 8.98E-05 | 6.62E-05 | 6.62E-05 | 3.69E-05 | | 9.42E-07 | 1.37E-05 | 1.03E-05 | 1.03E-05 | 5.68E-06 | | 5.12E-07 | 7.40E-06 | 4.60E-06 | 4.60E-06 | 2.28E-06 |
| 355 | 259446.7 | 4085134 | 6.18E-06 | 8.94E-05 | 6.59E-05 | 6.59E-05 | 3.67E-05 | | 9.38E-07 | 1.36E-05 | 1.03E-05 | 1.03E-05 | 5.65E-06 | | 5.09E-07 | 7.37E-06 | 4.58E-06 | 4.58E-06 | 2.26E-06 |
| 356 | 259438.1 | 4085257 | 6.14E-06 | 8.68E-05 | 6.54E-05 | 6.54E-05 | 3.65E-05 | | 9.32E-07 | 1.35E-05 | 1.02E-05 | 1.02E-05 | 5.62E-06 | | 5.06E-07 | 7.32E-06 | 4.55E-06 | 4.55E-06 | 2.25E-06 |
| 357 | 259429.4 | 4085180 | 6.09E-06 | 8.81E-05 | 6.49E-05 | 6.49E-05 | 3.62E-05 | | 9.24E-07 | 1.34E-05 | 1.01E-05 | 1.01E-05 | 5.57E-06 | | 5.02E-07 | 7.26E-06 | 4.51E-06 | 4.51E-06 | 2.23E-06 |
| 358 | 259420.8 | 4085203 | 6.02E-06 | 8.70E-05 | 6.42E-05 | 6.42E-05 | 3.58E-05 | | 9.13E-07 | 1.33E-05 | 1.00E-05 | 1.00E-06 | 5.51E-06 | | 4.96E-07 | 7.18E-06 | 4.46E-06 | 4.46E-06 | 2.21E-06 |
| 359 | 259412.2 | 4085226 | 5.93E-06 | 8.58E-05 | 6.32E-05 | 6.32E-05 | 3.52E-05 | | 9.00E-07 | 1.31E-05 | 9.87E-06 | 9.87E-06 | 5.43E-06 | | 4.89E-07 | 7.07E-06 | 4.39E-06 | 4.39E-06 | 2.17E-06 |
| 360 | 259403.5 | 4085249 | 5.83E-06 | 8.43E-05 | 6.21E-05 | 6.21E-05 | 3.46E-05 | | 8.84E-07 | 1.28E-05 | 9.70E-06 | 9.70E-06 | 5.33E-06 | | 4.80E-07 | 6.95E-06 | 4.32E-06 | 4.32E-06 | 2.14E-06 |
| 361 | 259394.9 | 4085272 | 5.71E-06 | 8.26E-05 | 6.09E-05 | 6.09E-05 | 3.40E-05 | | 8.67E-07 | 1.26E-05 | 9.51E-06 | 9.51E-06 | 5.23E-06 | | 4.71E-07 | 6.81E-06 | 4.23E-06 | 4.23E-06 | 2.09E-06 |
| 362 | 259386.3 | 4085295 | 5.59E-06 | 8.09E-05 | 5.96E-05 | 5.96E-05 | 3.32E-05 | | 8.49E-07 | 1.23E-05 | 9.31E-06 | 9.31E-06 | 5.12E-06 | | 4.61E-07 | 6.67E-06 | 4.14E-06 | 4.14E-06 | 2.05E-06 |
| 363 | 259377.6 | 4085318 | 5.47E-06 | 7.91E-05 | 5.83E-05 | 5.83E-05 | 3.25E-05 | | 8.30E-07 | 1.20E-05 | 9.10E-06 | 9.10E-06 | 5.00E-06 | | 4.51E-07 | 6.52E-06 | 4.05E-06 | 4.06E-06 | 2.00E-06 |
| 364 | 259369 | 4085341 | 5.34E-06 | 7.72E-05 | 5.69E-05 | 5.69E-05 | 3.17E-05 | | 8.10E-07 | 1.18E-05 | 8.88E-06 | 8.88E-05 | 4.88E-06 | | 4.40E-07 | 6.36E-06 | 3.95E-06 | 3.95E-06 | 1.96E-06 |
| 365 | 259360.3 | 4085364 | 5.23E-06 | 7.56E-05 | 5.57E-05 | 5.57E-05 | 3.11E-05 | | 7.93E-07 | 1.15E-05 | 8.70E-06 | 8.70E-06 | 4.78E-06 | | 4.31E-07 | 6.23E-06 | 3.87E-06 | 3.87E-06 | 1.92E-06 |
| 366 | 259351.7 | 4085387 | 5.12E-06 | 7.41E-05 | 5.46E-05 | 5.46E-05 | 3.05E-05 | | 7.78E-07 | 1.13E-05 | 8.53E-06 | 8.53E-06 | 4.69E-06 | | 4.22E-07 | 6.11E-06 | 3.80E-06 | 3.80E-06 | 1.88E-06 |
| 367 | 259343.1 | 4085410 | 5.03E-06 | 7.28E-05 | 5.36E-05 | 5.36E-05 | 2.99E-05 | | 7.64E-07 | 1.11E-05 | 8.38E-06 | 8.38E-06 | 4.61E-06 | | 4.15E-07 | 6.00E-06 | 3.73E-06 | 3.73E-06 | 1.84E-06 |
| 368 | 259334.4 | 4085433 | 4.95E-06 | 7.16E-05 | 5.26E-05 | 5.26E-05 | 2.94E-05 | | 7.51E-07 | 1.09E-05 | 8.24E-06 | 8.24E-06 | 4.53E-06 | | 4.08E-07 | 5.90E-06 | 3.67E-06 | 3.67E-06 | 1.81E-06 |
| 369 | 259325.8 | 4085455 | 4.88E-06 | 7.06E-06 | 5.20E-05 | 5.20E-06 | 2.90E-05 | | 7.40E-07 | 1.08E-05 | 8.12E-06 | 8.12E-06 | 4.46E-06 | | 4.02E-07 | 5.82E-06 | 3.61E-06 | 3.61E-06 | 1.79E-06 |
| 370 | 259317.2 | 4085478 | 4.81E-06 | 6.96E-06 | 5.13E-05 | 5.13E-05 | 2.86E-05 | | 7.30E-07 | 1.06E-05 | 8.01E-06 | 8.01E-06 | 4.40E-06 | | 3.97E-07 | 5.74E-06 | 3.56E-06 | 3.56E-06 | 1.76E-06 |
| 371 | 259308.5 | 4085501 | 4.75E-06 | 6.87E-06 | 5.06E-05 | 5.06E-05 | 2.82E-05 | | 7.21E-07 | 1.05E-05 | 7.91E-06 | 7.91E-06 | 4.35E-06 | | 3.92E-07 | 5.68E-06 | 3.52E-06 | 3.52E-06 | 1.74E-06 |
| 372 | 259299.9 | 4085524 | 4.69E-06 | 6.78E-06 | 5.00E-05 | 5.00E-05 | 2.79E-05 | | 7.12E-07 | 1.03E-05 | 7.81E-06 | 7.81E-06 | 4.29E-06 | | 3.87E-07 | 5.59E-06 | 3.47E-06 | 3.47E-06 | 1.72E-06 |
| 373 | 259291.2 | 4085547 | 4.63E-06 | 6.70E-05 | 4.94E-05 | 4.94E-05 | 2.75E-05 | | 7.03E-07 | 1.02E-05 | 7.71E-06 | 7.71E-06 | 4.24E-06 | | 3.82E-07 | 5.52E-06 | 3.43E-06 | 3.43E-06 | 1.70E-06 |
| 374 | 259282.6 | 4085570 | 4.58E-06 | 6.62E-05 | 4.88E-05 | 4.88E-05 | 2.72E-05 | | 6.95E-07 | 1.01E-05 | 7.62E-06 | 7.62E-06 | 4.19E-06 | | 3.77E-07 | 5.46E-06 | 3.39E-06 | 3.39E-06 | 1.68E-06 |
| 375 | 259274 | 4085593 | 4.52E-06 | 6.54E-05 | 4.82E-05 | 4.82E-05 | 2.69E-05 | | 6.86E-07 | 9.96E-06 | 7.52E-06 | 7.52E-06 | 4.14E-06 | | 3.73E-07 | 5.39E-06 | 3.35E-06 | 3.35E-06 | 1.66E-06 |
| 376 | 259265.3 | 4085616 | 4.46E-06 | 6.45E-05 | 4.76E-05 | 4.76E-05 | 2.65E-05 | | 6.77E-07 | 9.83E-06 | 7.43E-06 | 7.43E-06 | 4.08E-06 | | 3.68E-07 | 5.32E-06 | 3.31E-06 | 3.31E-06 | 1.64E-06 |
| 377 | 259256.7 | 4085639 | 4.40E-06 | 6.37E-05 | 4.69E-05 | 4.69E-05 | 2.62E-06 | | 6.68E-07 | 9.70E-06 | 7.33E-06 | 7.33E-06 | 4.03E-06 | | 3.63E-07 | 5.25E-06 | 3.26E-06 | 3.26E-06 | 1.61E-06 |
| 378 | 259248.1 | 4085662 | 4.34E-06 | 6.28E-05 | 4.63E-05 | 4.63E-05 | 2.58E-06 | | 6.59E-07 | 9.56E-06 | 7.22E-06 | 7.22E-06 | 3.97E-06 | | 3.58E-07 | 5.17E-06 | 3.21E-06 | 3.21E-05 | 1.59E-06 |
| 379 | 259239.4 | 4085685 | 4.27E-06 | 6.18E-05 | 4.56E-05 | 4.56E-05 | 2.54E-05 | | 6.49E-07 | 9.42E-06 | 7.11E-06 | 7.11E-06 | 3.91E-06 | | 3.52E-07 | 5.10E-06 | 3.17E-06 | 3.17E-06 | 1.57E-06 |
| 380 | 259230.8 | 4085708 | 4.20E-06 | 6.08E-05 | 4.48E-05 | 4.48E-05 | 2.50E-05 | | 6.36E-07 | 9.26E-06 | 7.00E-06 | 7.00E-06 | 3.85E-06 | | 3.47E-07 | 5.01E-06 | 3.11E-06 | 3.11E-06 | 1.54E-06 |
| 381 | 259222.1 | 4085731 | 4.14E-06 | 5.98E-06 | 4.41E-05 | 4.41E-05 | 2.46E-05 | | 6.28E-07 | 9.11E-06 | 6.88E-06 | 6.88E-06 | 3.76E-06 | | 3.41E-07 | 4.93E-06 | 3.06E-06 | 3.06E-06 | 1.52E-06 |
| 382 | 259213.5 | 4085754 | 4.07E-06 | 5.88E-06 | 4.34E-05 | 4.34E-05 | 2.42E-05 | | 6.17E-07 | 8.96E-06 | 6.77E-06 | 6.77E-06 | 3.72E-06 | | 3.35E-07 | 4.85E-06 | 3.01E-06 | 3.01E-06 | 1.49E-06 |
| 383 | 259204.9 | 4085777 | 4.00E-06 | 5.79E-06 | 4.26E-05 | 4.26E-06 | 2.38E-05 | | 6.07E-07 | 8.81E-06 | 6.66E-06 | 6.66E-06 | 3.66E-06 | | 3.30E-07 | 4.77E-06 | 2.96E-06 | 2.96E-06 | 1.47E-06 |
| 384 | 259196.2 | 4085800 | 3.94E-06 | 5.70E-05 | 4.20E-05 | 4.20E-06 | 2.34E-05 | | 5.96E-07 | 8.68E-06 | 6.56E-06 | 6.56E-06 | 3.60E-06 | | 3.25E-07 | 4.70E-06 | 2.92E-06 | 2.92E-06 | 1.44E-06 |
| 385 | 259187.6 | 4085823 | 3.88E-06 | 5.61E-05 | 4.14E-05 | 4.14E-05 | 2.31E-05 | | 5.89E-07 | 8.55E-06 | 6.46E-06 | 6.46E-06 | 3.55E-06 | | 3.20E-07 | 4.63E-06 | 2.87E-06 | 2.87E-06 | 1.42E-06 |
| 386 | 259179 | 4085846 | 3.83E-06 | 5.54E-05 | 4.08E-05 | 4.08E-05 | 2.28E-05 | | 5.81E-07 | 8.44E-06 | 6.37E-06 | 6.37E-06 | 3.50E-06 | | 3.16E-07 | 4.57E-06 | 2.84E-06 | 2.84E-06 | 1.40E-06 |
| 387 | 259148 | 4085879 | 3.83E-06 | 5.53E-05 | 4.08E-05 | 4.08E-05 | 2.27E-05 | | 5.81E-07 | 8.43E-06 | 6.37E-06 | 6.37E-06 | 3.50E-06 | | 3.15E-07 | 4.56E-06 | 2.83E-06 | 2.83E-06 | 1.40E-06 |
| 388 | 259125.8 | 4085889 | 3.87E-06 | 5.60E-05 | 4.13E-05 | 4.13E-05 | 2.30E-05 | | 5.87E-07 | 8.53E-06 | 6.44E-06 | 6.44E-06 | 3.54E-06 | | 3.19E-07 | 4.61E-06 | 2.87E-06 | 2.87E-06 | 1.42E-06 |
| 389 | 259103.5 | 4085900 | 3.92E-06 | 5.66E-05 | 4.17E-05 | 4.17E-05 | 2.33E-05 | | 5.94E-07 | 8.63E-06 | 6.52E-06 | 6.52E-06 | 3.58E-06 | | 3.23E-07 | 4.67E-06 | 2.90E-06 | 2.90E-06 | 1.44E-06 |
| 390 | 259081.2 | 4085910 | 3.96E-06 | 5.73E-05 | 4.22E-05 | 4.22E-05 | 2.36E-05 | | 6.01E-07 | 8.73E-06 | 6.60E-06 | 6.60E-06 | 3.63E-06 | | 3.27E-07 | 4.72E-06 | 2.93E-06 | 2.93E-06 | 1.45E-06 |
| 391 | 259059 | 4085920 | 4.01E-06 | 5.80E-05 | 4.28E-05 | 4.28E-05 | 2.38E-05 | | 6.09E-07 | 8.84E-06 | 6.68E-06 | 6.68E-06 | 3.67E-06 | | 3.31E-07 | 4.78E-06 | 2.97E-06 | 2.97E-06 | 1.47E-06 |
| 392 | 259036.7 | 4085931 | 4.06E-06 | 5.88E-05 | 4.33E-05 | 4.33E-06 | 2.42E-05 | | 6.17E-07 | 8.95E-06 | 6.76E-06 | 6.76E-06 | 3.72E-06 | | 3.35E-07 | 4.84E-06 | 3.01E-06 | 3.01E-06 | 1.49E-06 |
| 393 | 259014.4 | 4085941 | 4.12E-06 | 5.95E-05 | 4.39E-06 | 4.39E-06 | 2.45E-06 | | 6.25E-07 | 9.07E-06 | 6.85E-06 | 6.85E-06 | 3.77E-06 | | 3.39E-07 | 4.91E-06 | 3.05E-06 | 3.05E-06 | 1.51E-06 |
| 394 | 258992.2 | 4085951 | 4.17E-06 | 6.04E-05 | 4.45E-05 | 4.45E-05 | 2.48E-05 | | 6.33E-07 | 9.20E-06 | 6.95E-06 | 6.95E-06 | 3.82E-06 | | 3.44E-07 | 4.98E-06 | 3.09E-06 | 3.09E-06 | 1.53E-06 |
| 395 | 258969.9 | 4085962 | 4.23E-06 | 6.12E-05 | 4.51E-05 | 4.51E-05 | 2.52E-05 | | 6.42E-07 | 9.33E-06 | 7.05E-06 | 7.05E-06 | 3.87E-06 | | 3.49E-07 | 5.06E-06 | 3.14E-06 | 3.14E-06 | 1.55E-06 |
| 396 | 258947.6 | 4085972 | 4.29E-06 | 6.21E-05 | 4.57E-05 | 4.57E-05 | 2.55E-05 | | 6.51E-07 | 9.45E-06 | 7.14E-06 | 7.14E-06 | 3.93E-06 | | 3.54E-07 | 5.12E-06 | 3.18E-06 | 3.18E-06 | 1.57E-06 |
| 397 | 258925.3 | 4085982 | 4.36E-06 | 6.31E-05 | 4.65E-06 | 4.65E-05 | 2.59E-05 | | 6.62E-07 | 9.62E-06 | 7.26E-06 | 7.26E-06 | 3.99E-06 | | 3.60E-07 | 5.20E-06 | 3.23E-06 | 3.23E-06 | 1.60E-06 |
| 398 | 258903.1 | 4085992 | 4.45E-06 | 6.44E-05 | 4.75E-05 | 4.75E-05 | 2.65E-05 | | 6.76E-07 | 9.81E-06 | 7.41E-06 | 7.41E-06 | 4.07E-06 | | 3.67E-07 | 5.31E-06 | 3.30E-06 | 3.30E-06 | 1.63E-06 |
| 399 | 258880.8 | 4086003 | 4.55E-06 | 6.58E-05 | 4.85E-05 | 4.85E-05 | 2.70E-06 | | 6.90E-07 | 1.00E-05 | 7.57E-06 | 7.57E-06 | 4.16E-06 | | 3.75E-07 | 5.42E-05 | 3.37E-06 | 3.37E-06 | 1.67E-06 |
| 400 | 258858.5 | 4086013 | 4.66E-06 | 6.73E-05 | 4.96E-05 | 4.96E-05 | 2.77E-06 | | 7.07E-07 | 1.03E-05 | 7.75E-06 | 7.75E-06 | 4.26E-06 | | 3.84E-07 | 5.55E-05 | 3.45E-06 | 3.45E-06 | 1.71E-06 |
| 401 | 258836.3 | 4086023 | 4.77E-06 | 6.89E-05 | 5.08E-05 | 5.08E-05 | 2.83E-05 | | 7.23E-07 | 1.05E-05 | 7.93E-06 | 7.93E-06 | 4.36E-06 | | 3.93E-07 | 5.68E-06 | 3.53E-06 | 3.53E-06 | 1.75E-06 |
| 402 | 258814 | 4086034 | 4.88E-06 | 7.05E-06 | 5.20E-05 | 5.20E-05 | 2.90E-05 | | 7.40E-07 | 1.07E-05 | 8.12E-06 | 8.12E-06 | 4.46E-06 | | 4.02E-07 | 5.81E-06 | 3.61E-06 | 3.61E-06 | 1.79E-06 |
| 403 | 258791.7 | 4086044 | 4.98E-06 | 7.20E-06 | 5.31E-05 | 5.31E-05 | 2.96E-05 | | 7.56E-07 | 1.10E-05 | 8.29E-06 | 8.29E-06 | 4.58E-06 | | 4.11E-07 | 5.94E-06 | 3.69E-06 | 3.69E-06 | 1.83E-06 |
| 404 | 258769.5 | 4086054 | 5.08E-06 | 7.34E-05 | 5.41E-05 | 5.41E-05 | 3.02E-05 | | 7.71E-07 | 1.12E-05 | 8.45E-06 | 8.45E-06 | 4.65E-06 | | 4.19E-07 | 6.06E-06 | 3.76E-06 | 3.76E-06 | 1.86E-06 |
| 405 | 258747.2 | 4086065 | 5.16E-06 | 7.47E-05 | 5.50E-05 | 5.50E-05 | 3.07E-05 | | 7.84E-07 | 1.14E-05 | 8.60E-06 | 8.60E-06 | 4.73E-06 | | 4.26E-07 | 6.16E-06 | 3.82E-06 | 3.82E-05 | 1.89E-06 |
| 406 | 258724.9 | 4086075 | 5.24E-06 | 7.57E-05 | 5.58E-05 | 5.58E-05 | 3.11E-05 | | 7.95E-07 | 1.15E-05 | 8.71E-06 | 8.71E-06 | 4.79E-06 | | 4.32E-07 | 6.24E-06 | 3.88E-06 | 3.88E-06 | 1.92E-06 |
| 407 | 258702.6 | 4086085 | 5.30E-06 | 7.66E-06 | 5.65E-05 | 5.65E-05 | 3.15E-05 | | 8.04E-07 | 1.17E-06 | 8.82E-06 | 8.82E-06 | 4.85E-06 | | 4.37E-07 | 6.32E-06 | 3.92E-06 | 3.92E-06 | 1.94

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 203 | 258888.3 | 4085304 | 1.11E-05 | 1.61E-04 | 1.19E-04 | 1.19E-04 | 6.62E-05 | 1.69E-06 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.02E-05 | 9.18E-07 | 1.33E-05 | 8.25E-06 | 8.25E-06 | 4.08E-06 |
| 204 | 258879.9 | 4085327 | 1.08E-05 | 1.57E-04 | 1.16E-04 | 1.16E-04 | 6.44E-05 | 1.65E-06 | 2.39E-05 | 1.80E-05 | 1.80E-05 | 9.92E-06 | 8.94E-07 | 1.29E-05 | 8.03E-06 | 8.03E-06 | 3.97E-06 |
| 205 | 258871.5 | 4085349 | 1.05E-05 | 1.53E-04 | 1.12E-04 | 1.12E-04 | 6.27E-05 | 1.60E-06 | 2.32E-05 | 1.76E-05 | 1.76E-05 | 9.65E-06 | 8.69E-07 | 1.26E-05 | 7.81E-06 | 7.81E-06 | 3.87E-06 |
| 206 | 258863 | 4085372 | 1.03E-05 | 1.48E-04 | 1.09E-04 | 1.09E-04 | 6.10E-05 | 1.56E-06 | 2.26E-05 | 1.71E-05 | 1.71E-05 | 9.38E-06 | 8.45E-07 | 1.22E-05 | 7.60E-06 | 7.60E-06 | 3.76E-06 |
| 207 | 258854.6 | 4085394 | 9.97E-06 | 1.44E-04 | 1.06E-04 | 1.06E-04 | 5.93E-05 | 1.51E-06 | 2.20E-05 | 1.66E-05 | 1.66E-05 | 9.12E-06 | 8.22E-07 | 1.19E-05 | 7.38E-06 | 7.38E-06 | 3.65E-06 |
| 208 | 258846.2 | 4085416 | 9.69E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.76E-05 | 1.47E-06 | 2.14E-05 | 1.61E-05 | 1.61E-05 | 8.87E-06 | 7.99E-07 | 1.16E-05 | 7.18E-06 | 7.18E-06 | 3.55E-06 |
| 209 | 258837.7 | 4085439 | 9.43E-06 | 1.36E-04 | 1.00E-04 | 1.00E-04 | 5.60E-05 | 1.43E-06 | 2.08E-05 | 1.57E-05 | 1.57E-05 | 8.63E-06 | 7.77E-07 | 1.12E-05 | 6.98E-06 | 6.98E-06 | 3.46E-06 |
| 210 | 258829.3 | 4085461 | 9.17E-06 | 1.33E-04 | 9.78E-05 | 9.78E-05 | 5.45E-05 | 1.39E-06 | 2.02E-05 | 1.53E-05 | 1.53E-05 | 8.39E-06 | 7.56E-07 | 1.09E-05 | 6.79E-06 | 6.79E-06 | 3.36E-06 |
| 211 | 258820.9 | 4085484 | 8.93E-06 | 1.29E-04 | 9.52E-05 | 9.52E-05 | 5.31E-05 | 1.36E-06 | 1.97E-05 | 1.49E-05 | 1.49E-05 | 8.18E-06 | 7.36E-07 | 1.07E-05 | 6.62E-06 | 6.62E-06 | 3.27E-06 |
| 212 | 258812.4 | 4085506 | 8.71E-06 | 1.26E-04 | 9.29E-05 | 9.29E-05 | 5.18E-05 | 1.32E-06 | 1.92E-05 | 1.45E-05 | 1.45E-05 | 7.97E-06 | 7.18E-07 | 1.04E-05 | 6.45E-06 | 6.45E-06 | 3.19E-06 |
| 213 | 258782.3 | 4085539 | 8.66E-06 | 1.25E-04 | 9.24E-05 | 9.24E-05 | 5.15E-05 | 1.31E-06 | 1.91E-05 | 1.44E-05 | 1.44E-05 | 7.93E-06 | 7.14E-07 | 1.03E-05 | 6.42E-06 | 6.42E-06 | 3.18E-06 |
| 214 | 258760.5 | 4085549 | 8.83E-06 | 1.28E-04 | 9.41E-05 | 9.41E-05 | 5.25E-05 | 1.34E-06 | 1.95E-05 | 1.47E-05 | 1.47E-05 | 8.08E-06 | 7.28E-07 | 1.05E-05 | 6.54E-06 | 6.54E-06 | 3.24E-06 |
| 215 | 258738.8 | 4085559 | 9.01E-06 | 1.30E-04 | 9.60E-05 | 9.60E-05 | 5.35E-05 | 1.37E-06 | 1.98E-05 | 1.50E-05 | 1.50E-05 | 8.24E-06 | 7.43E-07 | 1.07E-05 | 6.67E-06 | 6.67E-06 | 3.30E-06 |
| 216 | 258717.1 | 4085569 | 9.20E-06 | 1.33E-04 | 9.81E-05 | 9.81E-05 | 5.47E-05 | 1.40E-06 | 2.03E-05 | 1.53E-05 | 1.53E-05 | 8.42E-06 | 7.59E-07 | 1.10E-05 | 6.82E-06 | 6.82E-06 | 3.37E-06 |
| 217 | 258695.3 | 4085579 | 9.42E-06 | 1.36E-04 | 1.00E-04 | 1.00E-04 | 5.60E-05 | 1.43E-06 | 2.08E-05 | 1.57E-05 | 1.57E-05 | 8.62E-06 | 7.76E-07 | 1.12E-05 | 6.98E-06 | 6.98E-06 | 3.45E-06 |
| 218 | 258673.6 | 4085589 | 9.66E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.74E-05 | 1.47E-06 | 2.13E-05 | 1.61E-05 | 1.61E-05 | 8.84E-06 | 7.97E-07 | 1.15E-05 | 7.16E-06 | 7.16E-06 | 3.54E-06 |
| 219 | 258651.9 | 4085599 | 9.93E-06 | 1.44E-04 | 1.06E-04 | 1.06E-04 | 5.90E-05 | 1.51E-06 | 2.19E-05 | 1.65E-05 | 1.65E-05 | 9.08E-06 | 8.18E-07 | 1.18E-05 | 7.35E-06 | 7.35E-06 | 3.64E-06 |
| 220 | 258630.1 | 4085609 | 1.02E-05 | 1.48E-04 | 1.09E-04 | 1.09E-04 | 6.06E-05 | 1.55E-06 | 2.25E-05 | 1.70E-05 | 1.70E-05 | 9.33E-06 | 8.41E-07 | 1.22E-05 | 7.55E-06 | 7.55E-06 | 3.74E-06 |
| 221 | 258608.4 | 4085619 | 1.05E-05 | 1.51E-04 | 1.12E-04 | 1.12E-04 | 6.22E-05 | 1.59E-06 | 2.31E-05 | 1.74E-05 | 1.74E-05 | 9.58E-06 | 8.63E-07 | 1.25E-05 | 7.75E-06 | 7.75E-06 | 3.84E-06 |
| 222 | 258586.6 | 4085629 | 1.07E-05 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 6.37E-05 | 1.63E-06 | 2.36E-05 | 1.78E-05 | 1.78E-05 | 9.80E-06 | 8.83E-07 | 1.28E-05 | 7.93E-06 | 7.93E-06 | 3.93E-06 |
| 223 | 258564.9 | 4085639 | 1.10E-05 | 1.59E-04 | 1.17E-04 | 1.17E-04 | 6.51E-05 | 1.66E-06 | 2.42E-05 | 1.82E-05 | 1.82E-05 | 1.00E-05 | 9.04E-07 | 1.31E-05 | 8.12E-06 | 8.12E-06 | 4.02E-06 |
| 224 | 258543.2 | 4085649 | 1.12E-05 | 1.62E-04 | 1.19E-04 | 1.19E-04 | 6.64E-05 | 1.70E-06 | 2.46E-05 | 1.86E-05 | 1.86E-05 | 1.02E-05 | 9.21E-07 | 1.33E-05 | 8.27E-06 | 8.27E-06 | 4.09E-06 |
| 225 | 258521.4 | 4085659 | 1.13E-05 | 1.64E-04 | 1.21E-04 | 1.21E-04 | 6.74E-05 | 1.72E-06 | 2.50E-05 | 1.89E-05 | 1.89E-05 | 1.04E-05 | 9.35E-07 | 1.35E-05 | 8.40E-06 | 8.40E-06 | 4.16E-06 |
| 226 | 258499.7 | 4085669 | 1.16E-05 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.89E-05 | 1.76E-06 | 2.55E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.55E-07 | 1.38E-05 | 8.58E-06 | 8.58E-06 | 4.25E-06 |
| 227 | 258478 | 4085679 | 1.18E-05 | 1.71E-04 | 1.26E-04 | 1.26E-04 | 7.02E-05 | 1.79E-06 | 2.60E-05 | 1.97E-05 | 1.97E-05 | 1.08E-05 | 9.74E-07 | 1.41E-05 | 8.75E-06 | 8.75E-06 | 4.33E-06 |
| 228 | 258456.2 | 4085689 | 1.20E-05 | 1.74E-04 | 1.28E-04 | 1.28E-04 | 7.15E-05 | 1.83E-06 | 2.65E-05 | 2.00E-05 | 2.00E-05 | 1.10E-05 | 9.92E-07 | 1.43E-05 | 8.91E-06 | 8.91E-06 | 4.41E-06 |
| 229 | 258434.5 | 4085699 | 1.23E-05 | 1.78E-04 | 1.31E-04 | 1.31E-04 | 7.31E-05 | 1.87E-06 | 2.71E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.01E-06 | 1.47E-05 | 9.11E-06 | 9.11E-06 | 4.51E-06 |
| 230 | 258412.8 | 4085709 | 1.26E-05 | 1.82E-04 | 1.34E-04 | 1.34E-04 | 7.48E-05 | 1.91E-05 | 2.77E-05 | 2.10E-05 | 2.10E-05 | 1.15E-05 | 1.04E-06 | 1.50E-05 | 9.32E-06 | 9.32E-06 | 4.61E-06 |
| 231 | 258964.2 | 4085103 | 1.41E-05 | 2.04E-04 | 1.51E-04 | 1.51E-04 | 8.39E-05 | 2.14E-06 | 3.11E-05 | 2.35E-05 | 2.35E-05 | 1.29E-05 | 1.16E-06 | 1.68E-05 | 1.05E-05 | 1.05E-05 | 5.18E-06 |
| 232 | 258963.5 | 4085078 | 1.48E-05 | 2.14E-04 | 1.57E-04 | 1.57E-04 | 8.78E-05 | 2.24E-06 | 3.25E-05 | 2.46E-05 | 2.46E-05 | 1.35E-05 | 1.22E-06 | 1.76E-05 | 1.09E-05 | 1.09E-05 | 5.41E-06 |
| 233 | 258962.8 | 4085053 | 1.55E-05 | 2.24E-04 | 1.65E-04 | 1.65E-04 | 9.19E-05 | 2.35E-06 | 3.41E-05 | 2.57E-05 | 2.57E-05 | 1.42E-05 | 1.27E-06 | 1.84E-05 | 1.15E-05 | 1.15E-05 | 5.67E-06 |
| 234 | 258962 | 4085028 | 1.62E-05 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.65E-05 | 2.46E-06 | 3.58E-05 | 2.70E-05 | 2.70E-05 | 1.49E-05 | 1.34E-06 | 1.94E-05 | 1.20E-05 | 1.20E-05 | 5.95E-06 |
| 235 | 258961.3 | 4085004 | 1.71E-05 | 2.47E-04 | 1.82E-04 | 1.82E-04 | 1.01E-04 | 2.59E-06 | 3.76E-05 | 2.84E-05 | 2.84E-05 | 1.56E-05 | 1.41E-06 | 2.03E-05 | 1.26E-05 | 1.26E-05 | 6.26E-06 |
| 236 | 258960.6 | 4084979 | 1.80E-05 | 2.60E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.73E-06 | 3.96E-05 | 2.99E-05 | 2.99E-05 | 1.64E-05 | 1.48E-06 | 2.14E-05 | 1.33E-05 | 1.33E-05 | 6.59E-06 |
| 237 | 258959.9 | 4084954 | 1.89E-05 | 2.74E-04 | 2.02E-04 | 2.02E-04 | 1.13E-04 | 2.88E-06 | 4.17E-05 | 3.15E-05 | 3.15E-05 | 1.73E-05 | 1.56E-06 | 2.26E-05 | 1.40E-05 | 1.40E-05 | 6.95E-06 |
| 238 | 258959.2 | 4084929 | 2.00E-05 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.03E-06 | 4.41E-05 | 3.33E-05 | 3.33E-05 | 1.83E-05 | 1.65E-06 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.33E-06 |
| 239 | 258958.4 | 4084905 | 2.11E-05 | 3.05E-04 | 2.25E-04 | 2.25E-04 | 1.25E-04 | 3.20E-06 | 4.65E-05 | 3.51E-05 | 3.51E-05 | 1.93E-05 | 1.74E-06 | 2.51E-05 | 1.56E-05 | 1.56E-05 | 7.73E-06 |
| 240 | 259055.7 | 4085122 | 1.13E-05 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.71E-05 | 1.71E-06 | 2.49E-05 | 1.88E-05 | 1.88E-05 | 1.03E-05 | 9.31E-07 | 1.35E-05 | 8.36E-06 | 8.36E-06 | 4.14E-06 |
| 241 | 259047.2 | 4085145 | 1.11E-05 | 1.61E-04 | 1.18E-04 | 1.18E-04 | 6.60E-05 | 1.69E-06 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.02E-05 | 9.15E-07 | 1.32E-05 | 8.22E-06 | 8.22E-06 | 4.07E-06 |
| 242 | 259038.7 | 4085167 | 1.09E-05 | 1.58E-04 | 1.16E-04 | 1.16E-04 | 6.47E-05 | 1.65E-06 | 2.40E-05 | 1.81E-05 | 1.81E-05 | 9.97E-06 | 8.98E-07 | 1.30E-05 | 8.07E-06 | 8.07E-06 | 3.99E-06 |
| 243 | 259030.2 | 4085190 | 1.06E-05 | 1.54E-04 | 1.13E-04 | 1.13E-04 | 6.32E-05 | 1.61E-06 | 2.34E-05 | 1.77E-05 | 1.77E-05 | 9.73E-06 | 8.77E-07 | 1.27E-05 | 7.88E-06 | 7.88E-06 | 3.90E-06 |
| 244 | 259021.7 | 4085213 | 1.04E-05 | 1.50E-04 | 1.10E-04 | 1.10E-04 | 6.15E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.48E-06 | 8.53E-07 | 1.23E-05 | 7.67E-06 | 7.67E-06 | 3.80E-06 |
| 245 | 259013.2 | 4085235 | 1.01E-05 | 1.46E-04 | 1.08E-04 | 1.08E-04 | 5.99E-05 | 1.53E-06 | 2.22E-05 | 1.68E-05 | 1.68E-05 | 9.23E-06 | 8.31E-07 | 1.20E-05 | 7.47E-06 | 7.47E-06 | 3.70E-06 |
| 246 | 259004.7 | 4085258 | 9.82E-06 | 1.42E-04 | 1.05E-04 | 1.05E-04 | 5.84E-05 | 1.49E-06 | 2.16E-05 | 1.63E-05 | 1.63E-05 | 8.99E-06 | 8.10E-07 | 1.17E-05 | 7.27E-06 | 7.27E-06 | 3.60E-06 |
| 247 | 258996.2 | 4085280 | 9.57E-06 | 1.38E-04 | 1.02E-04 | 1.02E-04 | 5.69E-05 | 1.45E-06 | 2.11E-05 | 1.59E-05 | 1.59E-05 | 8.76E-06 | 7.89E-07 | 1.14E-05 | 7.09E-06 | 7.09E-06 | 3.51E-06 |
| 248 | 258987.7 | 4085303 | 9.33E-06 | 1.35E-04 | 9.95E-05 | 9.95E-05 | 5.55E-05 | 1.42E-06 | 2.06E-05 | 1.55E-05 | 1.55E-05 | 8.54E-06 | 7.69E-07 | 1.11E-05 | 6.91E-06 | 6.91E-06 | 3.42E-06 |
| 249 | 258979.2 | 4085326 | 9.11E-06 | 1.32E-04 | 9.71E-05 | 9.71E-05 | 5.41E-05 | 1.38E-06 | 2.01E-05 | 1.52E-05 | 1.52E-05 | 8.33E-06 | 7.51E-07 | 1.09E-05 | 6.74E-06 | 6.74E-06 | 3.34E-06 |
| 250 | 258970.7 | 4085348 | 8.90E-06 | 1.29E-04 | 9.48E-05 | 9.48E-05 | 5.29E-05 | 1.35E-06 | 1.96E-05 | 1.48E-05 | 1.48E-05 | 8.14E-06 | 7.33E-07 | 1.06E-05 | 6.59E-06 | 6.59E-06 | 3.26E-06 |
| 251 | 258962.2 | 4085371 | 8.69E-06 | 1.26E-04 | 9.27E-05 | 9.27E-05 | 5.17E-05 | 1.32E-06 | 1.92E-05 | 1.45E-05 | 1.45E-05 | 7.95E-06 | 7.16E-07 | 1.04E-05 | 6.44E-06 | 6.44E-06 | 3.19E-06 |
| 252 | 258953.7 | 4085393 | 8.49E-06 | 1.23E-04 | 9.05E-05 | 9.05E-05 | 5.05E-05 | 1.29E-06 | 1.87E-05 | 1.41E-05 | 1.41E-05 | 7.77E-06 | 7.00E-07 | 1.01E-05 | 6.29E-06 | 6.29E-06 | 3.11E-06 |
| 253 | 258945.2 | 4085416 | 8.29E-06 | 1.20E-04 | 8.84E-05 | 8.84E-05 | 4.93E-05 | 1.26E-06 | 1.83E-05 | 1.38E-05 | 1.38E-05 | 7.59E-06 | 6.84E-07 | 9.89E-06 | 6.14E-06 | 6.14E-06 | 3.04E-06 |
| 254 | 258936.7 | 4085438 | 8.10E-06 | 1.17E-04 | 8.63E-05 | 8.63E-05 | 4.81E-05 | 1.23E-06 | 1.78E-05 | 1.35E-05 | 1.35E-05 | 7.41E-06 | 6.68E-07 | 9.65E-06 | 6.00E-06 | 6.00E-06 | 2.97E-06 |
| 255 | 258928.2 | 4085461 | 7.90E-06 | 1.14E-04 | 8.43E-05 | 8.43E-05 | 4.70E-05 | 1.20E-06 | 1.74E-05 | 1.32E-05 | 1.32E-05 | 7.23E-06 | 6.51E-07 | 9.42E-06 | 5.85E-06 | 5.85E-06 | 2.90E-06 |
| 256 | 258919.8 | 4085484 | 7.71E-06 | 1.12E-04 | 8.22E-05 | 8.22E-05 | 4.58E-05 | 1.17E-06 | 1.70E-05 | 1.28E-05 | 1.28E-05 | 7.06E-06 | 6.36E-07 | 9.20E-06 | 5.71E-06 | 5.71E-06 | 2.83E-06 |
| 257 | 258911.3 | 4085506 | 7.53E-06 | 1.09E-04 | 8.03E-05 | 8.03E-05 | 4.47E-05 | 1.14E-06 | 1.66E-05 | 1.25E-05 | 1.25E-05 | 6.89E-06 | 6.21E-07 | 8.98E-06 | 5.58E-06 | 5.58E-06 | 2.76E-06 |
| 258 | 258902.8 | 4085529 | 7.35E-06 | 1.06E-04 | 7.84E-05 | 7.84E-05 | 4.37E-05 | 1.12E-06 | 1.62E-05 | 1.22E-05 | 1.22E-05 | 6.73E-06 | 6.06E-07 | 8.77E-06 | 5.45E-06 | 5.45E-06 | 2.70E-06 |
| 259 | 258894.3 | 4085551 | 7.19E-06 | 1.04E-04 | 7.66E-05 | 7.66E-05 | 4.27E-05 | 1.09E-06 | 1.58E-05 | 1.20E-05 | 1.20E-05 | 6.58E-06 | 5.93E-07 | 8.57E-06 | 5.32E-06 | 5.32E-06 | 2.63E-06 |
| 260 | 258885.8 | 4085574 | 7.04E-06 | 1.02E-04 | 7.50E-05 | 7.50E-05 | 4.18E-05 | 1.07E-06 | 1.55E-05 | 1.17E-05 | 1.17E-05 | 6.44E-06 | 5.80E-07 | 8.39E-06 | 5.21E-06 | 5.21E-06 | 2.58E-06 |
| 261 | 258855.4 | 4085607 | 7.00E-06 | 1.01E-04 | 7.46E-05 | 7.46E-05 | 4.16E-05 | 1.06E-06 | 1.54E-05 | 1.17E-05 | 1.17E-05 | 6.41E-06 | 5.77E-07 | 8.35E-06 | 5.19E-06 | 5.19E-06 | 2.57E-06 |
| 262 | 258833.5 | 4085617 | 7.11E-06 | 1.03E-04 | 7.58E-05 | 7.58E-05 | 4.23E-05 | 1.08E-06 | 1.57E-05 | 1.18E-05 | 1.18E-05 | 6.51E-06 | 5.86E-07 | 8.48E-06 | 5.27E-06 | 5.27E-06 | 2.61E-06 |
| 263 | 258811.6 | 4085627 | 7.24E-06 | 1.05E-04 | 7.72E-05 | 7.72E-05 | 4.30E-05 | 1.10E-06 | 1.59E-05 | 1.20E-05 | 1.20E-05 | 6.62E-06 | 5.97E-07 | 8.63E-06 | 5.36E-06 | 5.36E-06 | 2.65E-06 |
| 264 | 258789.7 | 4085637 | 7.37E-06 | 1.07E-04 | 7.85E-05 | 7.85E-05 | 4.38E-05 | 1.12E-06 | 1.62E-05 | 1.23E-05 | 1.23E-05 | 6.74E-06 | 6.07E-07 | 8.78E-06 | 5.46E-06 | 5.46E-06 | 2.70E-06 |
| 265 | 258767.8 | 4085647 | 7.51E-06 | 1.09E-04 | 8.00E-05 | 8.00E-05 | 4.46E-05 | 1.14E-06 | 1.65E-05 | 1.25E-05 | 1.25E-05 | 6.87E-06 | 6.19E-07 | 8.95E-06 | 5.56E-06 | 5.56E-06 | 2.75E-06 |
| 266 | 258745.9 | 4085657 | 7.67E-06 | 1.11E-04 | 8.17E-05 | 8.17E-05 | 4.56E-05 | 1.16E-06 | 1.69E-05 | 1.28E-05 | 1.28E-05 | 7.02E-06 | 6.32E-07 | 9.14E-06 | 5.68E-06 | 5.68E-06 | 2.81E-06 |
| 267 | 258724 | 4085667 | 7.85E-06 | 1.14E-04 | 8.37E-05 | 8.37E-05 | 4.66E-05 | 1.19E-06 | 1.73E-05 | 1.31E-05 | 1.31E-05 | 7.18E-06 | 6.47E-07 | 9.36E-06 | 5.81E-06 | 5.81E-06 | 2.88E-06 |
| 268 | 258702.1 | 4085678 | 8.05E-06 | 1.16E-04 | 8.58E-05 | 8.58E-05 | 4.78E-05 | 1.22E-06 | 1.77E-05 | 1.34E-05 | 1.34E-05 | 7.36E-06 | 6.63E-07 | 9.59E-06 | 5.96E-06 | 5.96E-06 | 2.95E-06 |
| 269 | 258680.2 | 4085688 | 8.26E-06 | 1.19E-04 | 8.80E-05 | 8.80E-05 | 4.91E-05 | 1.25E-06 | 1.82E-05 | 1.37E-05 | 1.37E-05 | 7.55E-06 | 6.81E-07 | 9.84E-06 | 6.11E-06 | 6.11E-06 | 3.03E-06 |
| 270 | 258658.3 | 4085698 | 8.47E-06 | 1.22E-04 | 9.03E-05 | 9.03E-05 | 5.03E-05 | 1.29E-06 | 1.87E-05 | 1.41E-05 | 1.41E-05 | 7.75E-06 | 6.98E-07 | 1.01E-05 | 6.27E-06 | 6.27E-06 | 3.10E-06 |
| 271 | 258636.4 | 4085708 | 8.67E-06 | 1.25E-04 | 9.24E-05 | 9.24E-05 | 5.15E-05 | 1.32E-06 | 1.91E-05 | 1.44E-05 | 1.44E-05 | 7.93E-06 | 7.14E-07 | 1.03E-05 | 6.42E-06 | 6.42E-06 | 3.18E-06 |
| 272 | 258614.5 | 4085718 | 8.84E-06 | 1.28E-04 | 9.43E-05 | 9.43E-05 | 5.26E-05 | 1.34E-06 | 1.95E-05 | 1.47E-05 | 1.47E-05 | 8.09E-06 | 7.29E-07 | 1.05E-05 | 6.55E-06 | 6.55E-06 | 3.24E-06 |
| 273 | 258592.6 | 4085728 | 9.01E-06 | 1.30E-04 | 9.60E-05 | 9.60E-05 | 5.35E-05 | 1.37E-06 | 1.98E-05 | 1.50E-05 | 1.50E-05 | 8.24E-06 | 7.42E-07 | 1.07E-05 | 6.67E-06 | 6.67E-06 | 3.30E-06 |
| 274 | 258570.7 | 4085738 | 9.16E-06 | 1.32E-04 | 9.76E-05 | 9.76E-05 | 5.44E-05 | 1.39E-06 | 2.02E-05 | 1.52E-05 | 1.52E-05 | 8.38E-06 | 7.55E-07 | 1.09E-05 | 6.78E-06 | 6.78E-06 | 3.36E-06 |
| 275 | 258548.8 | 4085749 | 9.30E-06 | 1.35E-04 | 9.92E-05 | 9.92E-05 | 5.53E-05 | 1.41E-06 | 2.05E-05 | 1.55E-05 | 1.55E-05 | 8.51E-06 | 7.67E-07 | 1.11E-05 | 6.89E-06 | 6.89E-06 | 3.41E-06 |
| 276 | 258526.8 | 4085759 | 9.46E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.62E-05 | 1.44E-06 | 2.08E-05 | 1.57E-05 | 1.57E-05 | 8.66E-06 | 7.80E-07 | 1.13E-05 | 7.00E-06 | 7.00E-06 | 3.47E-06 |
| 277 | 258504.9 | 4085769 | 9.63E-06 | 1.39E-04 | 1.03E-04 | 1.03E-04 | 5.72E-05 | 1.46E-06 | 2.12E-05 | 1.60E-05 | 1.60E-05 | 8.81E-06 | 7.94E-07 | 1.15E-05 | 7.13E-06 | 7.13E-06 | 3.53E-06 |
| 278 | 258483 | 4085779 | 9.82E-06 | 1.42E-04 | 1.05E-04 | 1.05E-04 | 5.84E-05 | 1.49E-06 | 2.16E-05 | 1.63E-05 | 1.63E-05 | 8.98E-06 | 8.09E-07 | 1.17E-05 | 7.27E-06 | 7.27E-06 | 3.60E-06 |
| 279 | 258461.1 | 4085789 | 1.00E-05 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.96E-05 | 1.52E-06 | 2.21E-05 | 1.67E-05 | 1.67E-05 | 9.17E-06 | 8.26E-07 | 1.19E-05 | 7.42E-06 | 7.42E-06 | 3.67E-06 |
| 280 | 258439.2 | 4085799 | 1.02E-05 | 1.48E-04 | 1.09E-04 | 1.09E-04 | 6.08E-05 | 1.55E-06 | 2.25E-05 | 1.70E-05 | 1.70E-05 | 9.36E-06 | 8.43E-07 | 1.22E-05 | 7.58E-06 | 7.58E-06 | 3.75E-06 |
| 281 | 258417.3 | 4085809 | 1.05E-05 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 6.21E-05 | 1.59E-06 | 2.30E-05 | 1.74E-05 | 1.74E-05 | 9.56E-06 | 8.61E-07 | 1.25E-05 | 7.74E-06 | 7.74E-06 | 3.83E-06 |
| 282 | 259064.2 | 4085100 | 1.15E-05 | 1.66E-04 | 1.22E-04 | 1.22E-04 | 6.82E-05 | 1.74E-06 | 2.53E-05 | 1.91E-05 | 1.91E-05 | 1.05E-05 | 9.45E-07 | 1.37E-05 | 8.49E-06 | 8.49E-06 | 4.20E-06 |
| 283 | 259063.4 | 4085075 | 1.19E-05 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.07E-05 | 1.81E-06 | 2.62E-05 | 1.98E-05 | 1.98E-05 | 1.09E-05 | 9.80E-07 | 1.42E-05 | 8.81E-06 | 8.81E-06 | 4.36E-06 |
| 284 | 259062.7 | 4085050 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.35E-05 | 1.88E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.16E-06 | 9.16E-06 | 4.53E-06 |
| 285 | 259062 | 4085025 | 1.29E-05 | 1.86E-04 | 1.37E-04 | 1.37E-04 | 7.66E-05 | 1.96E-06 | 2.84E-05 | 2.14E-05 | 2.14E-05 | 1.18E-05 | 1.06E-06 | 1.54E-05 | 9.54E-06 | 9.54E-06 | 4.72E-06 |
| 286 | 259061.3 | 4085001 | 1.35E-05 | 1.95E-04 | 1.43E-04 | 1.43E-04 | 8.00E-05 | 2.04E-06 | 2.97E-05 | 2.24E-05 | 2.24E-05 | 1.23E-05 | 1.11E-06 | 1.60E-05 | 9.97E-06 | 9.97E-06 | 4.93E-06 |
| 287 | 259060.6 | 4084976 | 1.41E-05 | 2.04E-04 | 1.50E-04 | 1.50E-04 | 8.37E-05 | 2.14E-06 | 3.10E-05 | 2.34E-05 | 2.34E-05 | 1.29E-05 | 1.16E-06 | 1.66E-05 | 1.04E-05 | 1.04E-05 | 5.16E-06 |
| 288 | 259059.8 | 4084951 | 1.48E-05 | 2.13E-04 | 1.57E-04 | 1.57E-04 | 8.77E-05 | 2.24E-06 | 3.25E-05 | 2.46E-05 | 2.46E-05 | 1.35E-05 | 1.22E-06 | 1.76E-05 | 1.09E-05 | 1.09E-05 | 5.41E-06 |
| 289 | 259059.1 | 4084926 | 1.55E-05 | 2.24E-04 | 1.65E-04 | 1.65E-04 | 9.20E-05 | 2.35E-06 | 3.41E-05 | 2.58E-05 | 2.58E-05 | 1.42E-05 | 1.28E-06 | 1.84E-05 | 1.15E-05 | 1.15E-05 | 5.67E-06 |
| 290 | 259058.4 | 4084902 | 1.62E-05 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.64E-05 | 2.46E-06 | 3.58E-05 | 2.70E-05 | 2.70E-05 | 1.48E-05 | 1.34E-06 | 1.93E-05 | 1.20E-05 | 1.20E-05 | 5.95E-06 |
| 291 | 259255.5 | 4085117 | 8.09E-06 | 1.17E-04 | 8.62E-05 | 8.62E-05 | 4.81E-05 | 1.23E-06 | 1.78E-05 | 1.35E-05 | 1.35E-05 | 7.40E-06 | 6.66E-07 | 9.64E-06 | 5.99E-06 | 5.99E-06 | 2.96E-06 |
| 292 | 259246.9 | 4085139 | 8.01E-06 | 1.16E-04 | 8.54E-05 | 8.54E-05 | 4.76E-05 | 1.22E-06 | 1.76E-05 | 1.33E-05 | 1.33E-05 | 7.33E-06 | 6.60E-07 | 9.55E-06 | 5.93E-06 | 5.93E-06 | 2.94E-06 |
| 293 | 259238.3 | 4085162 | 7.91E-06 | 1.14E-04 | 8.44E-05 | 8.44E-05 | 4.70E-05 | 1.20E-06 | 1.74E-05 | 1.32E-05 | 1.32E-05 | 7.24E-06 | 6.52E-07 | 9.43E-06 | 5.86E-06 | 5.86E-06 | 2.90E-06 |
| 294 | 259229.8 | 4085185 | 7.79E-06 | 1.13E-04 | 8.31E-05 | 8.31E-05 | 4.63E-05 | 1.18E-06 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.13E-06 | 6.42E-07 | 9.29E-06 | 5.77E-06 | 5.77E-06 | 2.86E-06 |
| 295 | 259221.2 | 4085208 | 7.63E-06 | 1.10E-04 | 8.13E-05 | 8.13E-05 | 4.53E-05 | 1.16E-06 | 1.68E-05 | 1.27E-05 | 1.27E-05 | 6.98E-06 | 6.29E-07 | 9.09E-06 | 5.65E-06 | 5.65E-06 | 2.80E-06 |
| 296 | 259212.6 | 4085231 | 7.47E-06 | 1.08E-04 | 7.96E-05 | 7.96E-05 | 4.44E-05 | 1.13E-06 | 1.65E-05 | 1.24E-05 | 1.24E-05 | 6.84E-06 | 6.16E-07 | 8.91E-06 | 5.53E-06 | 5.53E-06 | 2.74E-06 |
| 297 | 259204 | 4085254 | 7.31E-06 | 1.06E-04 | 7.79E-05 | 7.79E-05 | 4.34E-05 | 1.11E-06 | 1.61E-05 | 1.22E-05 | 1.22E-05 | 6.68E-06 | 6.02E-07 | 8.71E-06 | 5.41E-06 | 5.41E-06 | 2.68E-06 |
| 298 | 259195.4 | 4085276 | 7.14E-06 | 1.03E-04 | 7.61E-05 | 7.61E-05 | 4.24E-05 | 1.08E-06 | 1.57E-05 | 1.19E-05 | 1.19E-05 | 6.53E-06 | 5.88E-07 | 8.51E-06 | 5.29E-06 | 5.29E-06 | 2.62E-06 |
| 299 | 259186.8 | 4085299 | 6.97E-06 | 1.01E-04 | 7.43E-05 | 7.43E-05 | 4.14E-05 | 1.06E-06 | 1.54E-05 | 1.16E-05 | 1.16E-05 | 6.38E-06 | 5.75E-07 | 8.31E-06 | 5.16E-06 | 5.16E-06 | 2.56E-06 |
| 300 | 259178.3 | 4085322 | 6.82E-06 | 9.86E-05 | 7.27E-05 | 7.27E-05 | 4.05E-05 | 1.03E-06 | 1.50E-05 | 1.13E-05 | 1.13E-05 | 6.24E-06 | 5.62E-07 | 8.13E-06 | 5.05E-06 | 5.05E-06 | 2.50E-06 |
| 301 | 259169.7 | 4085345 | 6.67E-06 | 9.65E-05 | 7.11E-05 | 7.11E-05 | 3.96E-05 | 1.01E-06 | 1.47E-05 | 1.11E-05 | 1.11E-05 | 6.10E-06 | 5.50E-07 | 7.95E-06 | 4.94E-06 | 4.94E-06 | 2.44E-06 |
| 302 | 259161.1 | 4085368 | 6.54E-06 | 9.45E-05 | 6.97E-05 | 6.97E-05 | 3.88E-05 | 9.92E-07 | 1.44E-05 | 1.09E-05 | 1.09E-05 | 5.98E-06 | 5.39E-07 | 7.79E-06 | 4.84E-06 | 4.84E-06 | 2.40E-06 |
| 303 | 259152.5 | 4085390 | 6.41E-06 | 9.28E-05 | 6.84E-05 | 6.84E-05 | 3.81E-05 | 9.73E-07 | 1.41E-05 | 1.07E-05 | 1.07E-05 | 5.87E-06 | 5.29E-07 | 7.65E-06 | 4.75E-06 | 4.75E-06 | 2.35E-06 |
| 304 | 259143.9 | 4085413 | 6.30E-06 | 9.11E-05 | 6.72E-05 | 6.72E-05 | 3.74E-05 | 9.56E-07 | 1.39E-05 | 1.05E-05 | 1.05E-05 | 5.77E-06 | 5.19E-07 | 7.51E-06 | 4.67E-06 | 4.67E-06 | 2.31E-06 |
| 305 | 259135.4 | 4085436 | 6.20E-06 | 8.96E-06 | 6.61E-05 | 6.61E-05 | 3.68E-05 | 9.40E-07 | 1.37E-05 | 1.03E-05 | 1.03E-05 | 5.67E-06 | 5.11E-07 | 7.39E-06 | 4.59E-06 | 4.59E-06 | 2.27E-06 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | 258624.3 | 4085218 | 2.75E-05 | 3.97E-04 | 2.93E-04 | 2.93E-04 | 1.63E-04 | 4.17E-06 | 6.05E-05 | 4.57E-05 | 4.57E-05 | 2.51E-06 | 2.26E-06 | 3.27E-05 | 2.03E-05 | 2.03E-05 | 1.01E-05 |
| 101 | 258616.3 | 4085239 | 2.61E-05 | 3.78E-04 | 2.79E-04 | 2.79E-04 | 1.55E-04 | 3.97E-06 | 5.76E-05 | 4.35E-05 | 4.35E-05 | 2.39E-05 | 2.16E-06 | 3.12E-05 | 1.94E-05 | 1.94E-05 | 9.59E-06 |
| 102 | 258608.3 | 4085260 | 2.49E-05 | 3.60E-04 | 2.68E-04 | 2.66E-04 | 1.48E-04 | 3.78E-06 | 5.49E-05 | 4.15E-05 | 4.15E-05 | 2.28E-05 | 2.05E-06 | 2.97E-05 | 1.84E-05 | 1.84E-05 | 9.13E-06 |
| 103 | 258600.3 | 4085282 | 2.38E-05 | 3.44E-04 | 2.53E-04 | 2.53E-04 | 1.41E-04 | 3.61E-06 | 5.24E-05 | 3.95E-05 | 3.95E-05 | 2.17E-05 | 1.96E-06 | 2.83E-05 | 1.76E-05 | 1.76E-05 | 8.71E-06 |
| 104 | 258592.3 | 4085303 | 2.27E-05 | 3.28E-04 | 2.42E-04 | 2.42E-04 | 1.35E-04 | 3.45E-06 | 5.00E-05 | 3.78E-05 | 3.78E-05 | 2.08E-05 | 1.87E-06 | 2.71E-06 | 1.68E-05 | 1.68E-06 | 8.32E-06 |
| 105 | 258563.6 | 4085334 | 2.25E-05 | 3.25E-04 | 2.40E-04 | 2.40E-04 | 1.34E-04 | 3.41E-06 | 4.96E-06 | 3.74E-05 | 3.74E-05 | 2.06E-05 | 1.85E-06 | 2.68E-05 | 1.67E-05 | 1.67E-06 | 8.25E-06 |
| 106 | 258542.9 | 4085343 | 2.33E-05 | 3.37E-04 | 2.49E-04 | 2.49E-04 | 1.39E-04 | 3.54E-06 | 5.14E-05 | 3.88E-06 | 3.88E-05 | 2.13E-05 | 1.92E-06 | 2.78E-05 | 1.73E-05 | 1.73E-06 | 8.55E-06 |
| 107 | 258522.3 | 4085353 | 2.42E-05 | 3.50E-04 | 2.58E-04 | 2.58E-04 | 1.44E-04 | 3.68E-06 | 5.34E-05 | 4.03E-05 | 4.03E-05 | 2.22E-06 | 2.00E-06 | 2.89E-05 | 1.79E-06 | 1.79E-06 | 8.88E-06 |
| 108 | 258501.6 | 4085363 | 2.52E-05 | 3.64E-04 | 2.68E-04 | 2.68E-04 | 1.50E-04 | 3.82E-06 | 5.55E-05 | 4.19E-05 | 4.19E-05 | 2.30E-05 | 2.07E-06 | 3.00E-05 | 1.86E-05 | 1.86E-05 | 9.23E-06 |
| 109 | 258481 | 4085372 | 2.61E-06 | 3.78E-04 | 2.78E-04 | 2.78E-04 | 1.55E-04 | 3.96E-06 | 5.75E-05 | 4.34E-06 | 4.34E-05 | 2.39E-05 | 2.15E-06 | 3.11E-05 | 1.93E-05 | 1.93E-05 | 9.57E-06 |
| 110 | 258460.3 | 4085382 | 2.70E-06 | 3.90E-04 | 2.88E-04 | 2.88E-04 | 1.60E-04 | 4.10E-06 | 5.95E-05 | 4.49E-05 | 4.49E-05 | 2.47E-05 | 2.22E-06 | 3.22E-05 | 2.00E-05 | 2.00E-05 | 9.89E-06 |
| 111 | 258439.7 | 4085391 | 2.79E-05 | 4.03E-04 | 2.97E-04 | 2.97E-04 | 1.66E-04 | 4.23E-06 | 6.14E-06 | 4.64E-05 | 4.64E-05 | 2.55E-06 | 2.30E-06 | 3.32E-05 | 2.06E-05 | 2.06E-05 | 1.02E-06 |
| 112 | 258419 | 4085401 | 2.88E-05 | 4.16E-04 | 3.06E-04 | 3.06E-04 | 1.71E-04 | 4.36E-06 | 6.34E-05 | 4.79E-05 | 4.79E-05 | 2.63E-06 | 2.37E-06 | 3.43E-05 | 2.13E-05 | 2.13E-05 | 1.05E-06 |
| 113 | 258398.4 | 4085410 | 2.97E-05 | 4.29E-04 | 3.16E-04 | 3.16E-04 | 1.76E-04 | 4.51E-06 | 6.54E-06 | 4.94E-05 | 4.94E-05 | 2.72E-05 | 2.45E-06 | 3.54E-05 | 2.20E-05 | 2.20E-05 | 1.09E-05 |
| 114 | 258864.3 | 4085111 | 3.44E-06 | 4.98E-04 | 3.67E-04 | 3.67E-04 | 2.05E-04 | 5.23E-06 | 7.59E-05 | 5.73E-05 | 5.73E-05 | 3.15E-06 | 2.84E-06 | 4.11E-05 | 2.55E-05 | 2.55E-05 | 1.26E-06 |
| 115 | 258863.6 | 4085087 | 3.77E-05 | 5.45E-04 | 4.02E-04 | 4.02E-04 | 2.24E-04 | 5.72E-06 | 8.30E-06 | 6.27E-06 | 6.27E-06 | 3.45E-06 | 3.11E-06 | 4.49E-05 | 2.79E-05 | 2.79E-05 | 1.38E-05 |
| 116 | 258662.9 | 4085062 | 4.13E-05 | 5.97E-04 | 4.40E-04 | 4.40E-04 | 2.45E-04 | 6.27E-06 | 9.10E-06 | 6.87E-05 | 6.87E-05 | 3.78E-05 | 3.40E-06 | 4.92E-05 | 3.06E-05 | 3.06E-05 | 1.51E-05 |
| 117 | 258662.2 | 4085037 | 4.53E-06 | 6.55E-04 | 4.83E-04 | 4.83E-04 | 2.69E-04 | 6.88E-06 | 9.98E-05 | 7.54E-05 | 7.54E-05 | 4.15E-05 | 3.74E-06 | 5.40E-05 | 3.36E-05 | 3.36E-06 | 1.66E-06 |
| 118 | 258661.4 | 4085012 | 4.97E-05 | 7.19E-04 | 5.30E-04 | 5.30E-04 | 2.95E-04 | 7.54E-06 | 1.09E-04 | 8.27E-05 | 8.27E-05 | 4.55E-05 | 4.10E-06 | 5.92E-05 | 3.68E-05 | 3.68E-05 | 1.82E-05 |
| 119 | 258660.7 | 4084988 | 5.43E-06 | 7.86E-04 | 5.79E-04 | 5.79E-04 | 3.23E-04 | 8.25E-06 | 1.20E-04 | 9.04E-05 | 9.04E-05 | 4.97E-05 | 4.48E-06 | 6.48E-05 | 4.02E-05 | 4.02E-05 | 1.99E-05 |
| 120 | 258660 | 4084963 | 5.91E-06 | 8.55E-04 | 6.30E-04 | 6.30E-04 | 3.51E-04 | 8.97E-06 | 1.30E-04 | 9.84E-05 | 9.84E-05 | 5.41E-05 | 4.87E-06 | 7.05E-05 | 4.38E-05 | 4.38E-05 | 2.17E-05 |
| 121 | 258659.3 | 4084938 | 6.38E-06 | 9.23E-04 | 6.81E-04 | 6.81E-04 | 3.79E-04 | 9.69E-06 | 1.41E-04 | 1.06E-04 | 1.06E-04 | 5.84E-05 | 5.26E-06 | 7.61E-06 | 4.73E-05 | 4.73E-05 | 2.34E-06 |
| 122 | 258658.6 | 4084913 | 6.82E-06 | 9.87E-04 | 7.27E-04 | 7.27E-04 | 4.06E-04 | 1.04E-06 | 1.50E-04 | 1.14E-04 | 1.14E-04 | 6.24E-05 | 5.62E-06 | 8.14E-06 | 5.05E-06 | 5.05E-05 | 2.50E-05 |
| 123 | 258756.1 | 4085130 | 2.34E-06 | 3.38E-04 | 2.49E-04 | 2.49E-04 | 1.39E-04 | 3.55E-06 | 5.15E-05 | 3.89E-05 | 3.89E-05 | 2.14E-06 | 1.93E-06 | 2.78E-05 | 1.73E-06 | 1.73E-05 | 8.56E-06 |
| 124 | 258747.9 | 4085152 | 2.26E-05 | 3.27E-04 | 2.41E-04 | 2.41E-04 | 1.34E-04 | 3.43E-06 | 4.98E-05 | 3.76E-05 | 3.76E-05 | 2.07E-05 | 1.86E-06 | 2.69E-05 | 1.67E-05 | 1.67E-05 | 8.28E-06 |
| 125 | 258739.6 | 4085174 | 2.18E-05 | 3.16E-04 | 2.33E-04 | 2.33E-04 | 1.30E-04 | 3.31E-06 | 4.81E-05 | 3.63E-05 | 3.63E-05 | 2.00E-05 | 1.80E-06 | 2.60E-05 | 1.62E-05 | 1.62E-05 | 8.00E-06 |
| 126 | 258731.4 | 4085196 | 2.10E-05 | 3.04E-04 | 2.24E-04 | 2.24E-04 | 1.25E-04 | 3.19E-06 | 4.63E-05 | 3.50E-05 | 3.50E-05 | 1.92E-06 | 1.73E-06 | 2.51E-05 | 1.56E-05 | 1.56E-05 | 7.71E-06 |
| 127 | 258723.2 | 4085218 | 2.02E-06 | 2.93E-04 | 2.16E-04 | 2.16E-04 | 1.20E-04 | 3.07E-06 | 4.46E-05 | 3.37E-05 | 3.37E-05 | 1.85E-05 | 1.67E-06 | 2.41E-06 | 1.50E-06 | 1.50E-05 | 7.42E-06 |
| 128 | 258715 | 4085239 | 1.95E-05 | 2.81E-04 | 2.07E-04 | 2.07E-04 | 1.16E-04 | 2.95E-06 | 4.29E-06 | 3.24E-05 | 3.24E-05 | 1.78E-05 | 1.60E-06 | 2.32E-06 | 1.44E-06 | 1.44E-05 | 7.13E-06 |
| 129 | 258706.8 | 4085261 | 1.87E-06 | 2.70E-04 | 1.99E-04 | 1.99E-04 | 1.11E-04 | 2.84E-06 | 4.12E-06 | 3.11E-05 | 3.11E-05 | 1.71E-05 | 1.54E-06 | 2.23E-05 | 1.38E-06 | 1.38E-06 | 6.85E-06 |
| 130 | 258698.6 | 4085283 | 1.80E-06 | 2.60E-04 | 1.91E-04 | 1.91E-04 | 1.07E-04 | 2.73E-06 | 3.96E-05 | 2.99E-05 | 2.99E-05 | 1.64E-05 | 1.48E-06 | 2.14E-05 | 1.33E-05 | 1.33E-05 | 6.58E-06 |
| 131 | 258690.4 | 4085305 | 1.72E-05 | 2.49E-04 | 1.84E-04 | 1.84E-04 | 1.02E-04 | 2.62E-06 | 3.80E-05 | 2.87E-05 | 2.87E-05 | 1.58E-05 | 1.42E-06 | 2.06E-05 | 1.28E-05 | 1.28E-05 | 6.32E-06 |
| 132 | 258682.1 | 4085327 | 1.65E-05 | 2.39E-04 | 1.76E-04 | 1.76E-04 | 9.83E-05 | 2.51E-06 | 3.64E-05 | 2.75E-05 | 2.75E-05 | 1.51E-05 | 1.36E-06 | 1.97E-05 | 1.22E-05 | 1.22E-05 | 6.06E-06 |
| 133 | 258673.9 | 4085349 | 1.60E-06 | 2.31E-04 | 1.70E-04 | 1.70E-04 | 9.48E-05 | 2.42E-06 | 3.51E-05 | 2.66E-05 | 2.66E-05 | 1.46E-05 | 1.31E-06 | 1.90E-05 | 1.18E-05 | 1.18E-05 | 5.85E-06 |
| 134 | 258665.7 | 4085371 | 1.54E-06 | 2.22E-04 | 1.64E-04 | 1.64E-04 | 9.13E-05 | 2.33E-06 | 3.38E-05 | 2.56E-05 | 2.56E-05 | 1.41E-05 | 1.27E-06 | 1.83E-05 | 1.14E-05 | 1.14E-05 | 5.63E-06 |
| 135 | 258636.3 | 4085402 | 1.53E-05 | 2.21E-04 | 1.63E-04 | 1.63E-04 | 9.09E-05 | 2.32E-06 | 3.37E-05 | 2.54E-05 | 2.54E-05 | 1.40E-05 | 1.26E-06 | 1.82E-05 | 1.13E-05 | 1.13E-06 | 5.60E-06 |
| 136 | 258615.1 | 4085412 | 1.57E-05 | 2.27E-04 | 1.68E-04 | 1.68E-04 | 9.35E-05 | 2.39E-06 | 3.47E-05 | 2.62E-05 | 2.62E-05 | 1.44E-06 | 1.30E-06 | 1.88E-06 | 1.16E-06 | 1.16E-05 | 5.77E-06 |
| 137 | 258594 | 4085422 | 1.62E-05 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.64E-05 | 2.46E-06 | 3.57E-05 | 2.70E-06 | 2.70E-06 | 1.48E-06 | 1.34E-06 | 1.93E-05 | 1.20E-05 | 1.20E-05 | 5.95E-06 |
| 138 | 258572.8 | 4085432 | 1.68E-05 | 2.42E-04 | 1.79E-04 | 1.79E-04 | 9.96E-05 | 2.54E-06 | 3.69E-05 | 2.79E-05 | 2.79E-05 | 1.53E-05 | 1.38E-06 | 2.00E-05 | 1.24E-05 | 1.24E-05 | 6.14E-06 |
| 139 | 258551.6 | 4085441 | 1.73E-05 | 2.51E-04 | 1.85E-04 | 1.85E-04 | 1.03E-04 | 2.63E-06 | 3.82E-05 | 2.88E-05 | 2.88E-05 | 1.59E-05 | 1.43E-06 | 2.07E-05 | 1.28E-05 | 1.28E-05 | 6.35E-06 |
| 140 | 258530.4 | 4085451 | 1.79E-06 | 2.59E-04 | 1.91E-04 | 1.91E-04 | 1.06E-04 | 2.72E-06 | 3.94E-05 | 2.98E-06 | 2.98E-06 | 1.64E-05 | 1.48E-06 | 2.13E-05 | 1.33E-05 | 1.33E-05 | 6.56E-06 |
| 141 | 258509.2 | 4085461 | 1.84E-06 | 2.67E-04 | 1.96E-04 | 1.96E-04 | 1.10E-04 | 2.80E-06 | 4.06E-05 | 3.07E-06 | 3.07E-06 | 1.69E-06 | 1.52E-06 | 2.20E-06 | 1.36E-05 | 1.36E-05 | 6.75E-06 |
| 142 | 258488.1 | 4085471 | 1.89E-05 | 2.74E-04 | 2.02E-04 | 2.02E-04 | 1.12E-04 | 2.87E-06 | 4.17E-05 | 3.15E-05 | 3.15E-05 | 1.73E-05 | 1.36E-06 | 2.26E-05 | 1.40E-05 | 1.40E-05 | 6.94E-06 |
| 143 | 258466.9 | 4085481 | 1.94E-05 | 2.81E-04 | 2.07E-04 | 2.07E-04 | 1.15E-04 | 2.95E-06 | 4.28E-05 | 3.23E-05 | 3.23E-05 | 1.78E-06 | 1.60E-06 | 2.31E-05 | 1.44E-05 | 1.44E-05 | 7.11E-06 |
| 144 | 258445.7 | 4085490 | 1.99E-05 | 2.88E-04 | 2.12E-04 | 2.12E-04 | 1.18E-04 | 3.02E-06 | 4.39E-05 | 3.31E-05 | 3.31E-05 | 1.82E-06 | 1.64E-06 | 2.37E-05 | 1.47E-05 | 1.47E-05 | 7.30E-06 |
| 145 | 258424.5 | 4085500 | 2.04E-05 | 2.96E-04 | 2.18E-04 | 2.18E-04 | 1.21E-04 | 3.10E-06 | 4.50E-05 | 3.40E-05 | 3.40E-05 | 1.87E-05 | 1.68E-06 | 2.44E-05 | 1.51E-05 | 1.51E-05 | 7.49E-06 |
| 146 | 258403.3 | 4085510 | 2.10E-05 | 3.04E-04 | 2.24E-04 | 2.24E-04 | 1.25E-04 | 3.19E-06 | 4.63E-05 | 3.49E-05 | 3.49E-05 | 1.92E-05 | 1.73E-06 | 2.50E-05 | 1.55E-05 | 1.55E-05 | 7.69E-06 |
| 147 | 258764.3 | 4085108 | 2.41E-05 | 3.49E-04 | 2.57E-04 | 2.57E-04 | 1.43E-04 | 3.66E-06 | 5.31E-05 | 4.01E-05 | 4.01E-05 | 2.21E-05 | 1.99E-06 | 2.87E-06 | 1.79E-05 | 1.79E-05 | 8.84E-06 |
| 148 | 258763.6 | 4085084 | 2.58E-05 | 3.73E-04 | 2.75E-04 | 2.75E-04 | 1.53E-04 | 3.92E-06 | 5.69E-05 | 4.30E-06 | 4.30E-05 | 2.36E-05 | 2.13E-06 | 3.08E-06 | 1.91E-05 | 1.91E-05 | 9.46E-06 |
| 149 | 258762.8 | 4085059 | 2.77E-05 | 4.01E-04 | 2.95E-04 | 2.95E-04 | 1.65E-04 | 4.21E-06 | 6.11E-05 | 4.61E-05 | 4.61E-05 | 2.54E-05 | 2.28E-06 | 3.30E-05 | 2.05E-05 | 2.05E-05 | 1.02E-05 |
| 150 | 258762.1 | 4085034 | 2.98E-05 | 4.31E-04 | 3.17E-04 | 3.17E-04 | 1.77E-04 | 4.52E-06 | 6.56E-05 | 4.96E-05 | 4.96E-05 | 2.73E-05 | 2.45E-06 | 3.55E-05 | 2.21E-05 | 2.21E-05 | 1.09E-05 |
| 151 | 258761.4 | 4085009 | 3.20E-05 | 4.63E-04 | 3.41E-04 | 3.41E-04 | 1.90E-04 | 4.86E-06 | 7.06E-05 | 5.33E-05 | 5.33E-05 | 2.93E-05 | 2.64E-06 | 3.82E-05 | 2.37E-05 | 2.37E-05 | 1.17E-06 |
| 152 | 258760.7 | 4084985 | 3.44E-06 | 4.98E-04 | 3.67E-04 | 3.67E-04 | 2.05E-04 | 5.23E-06 | 7.59E-06 | 5.73E-06 | 5.73E-05 | 3.15E-05 | 2.84E-06 | 4.11E-05 | 2.55E-05 | 2.55E-05 | 1.26E-06 |
| 153 | 258760 | 4084960 | 3.70E-05 | 5.35E-04 | 3.95E-04 | 3.95E-04 | 2.20E-04 | 5.62E-06 | 8.15E-05 | 6.16E-05 | 6.16E-05 | 3.39E-05 | 3.05E-06 | 4.41E-05 | 2.74E-06 | 2.74E-06 | 1.36E-06 |
| 154 | 258759.2 | 4084935 | 3.97E-05 | 5.74E-04 | 4.23E-04 | 4.23E-04 | 2.38E-04 | 6.02E-06 | 8.74E-05 | 6.61E-05 | 6.61E-06 | 3.63E-05 | 3.27E-06 | 4.73E-06 | 2.94E-06 | 2.94E-05 | 1.45E-05 |
| 155 | 258758.5 | 4084910 | 4.24E-05 | 6.13E-04 | 4.52E-04 | 4.52E-04 | 2.52E-04 | 6.43E-06 | 9.34E-05 | 7.05E-05 | 7.05E-05 | 3.88E-05 | 3.49E-06 | 5.05E-06 | 3.14E-06 | 3.14E-05 | 1.55E-05 |
| 156 | 258855.9 | 4085128 | 1.76E-05 | 2.54E-04 | 1.87E-04 | 1.87E-04 | 1.04E-04 | 2.67E-06 | 3.87E-05 | 2.93E-05 | 2.93E-05 | 1.61E-05 | 1.45E-05 | 2.10E-05 | 1.30E-06 | 1.30E-05 | 6.44E-06 |
| 157 | 258847.6 | 4085150 | 1.71E-05 | 2.48E-04 | 1.83E-04 | 1.83E-04 | 1.02E-04 | 2.60E-06 | 3.77E-05 | 2.85E-05 | 2.85E-05 | 1.57E-05 | 1.41E-06 | 2.04E-05 | 1.27E-05 | 1.27E-05 | 6.28E-06 |
| 158 | 258839.2 | 4085172 | 1.66E-05 | 2.41E-04 | 1.77E-04 | 1.77E-04 | 9.89E-05 | 2.53E-06 | 3.67E-05 | 2.77E-05 | 2.77E-05 | 1.52E-05 | 1.37E-06 | 1.98E-05 | 1.23E-05 | 1.23E-05 | 6.10E-06 |
| 159 | 258830.9 | 4085194 | 1.61E-05 | 2.33E-04 | 1.72E-04 | 1.72E-04 | 9.59E-05 | 2.45E-06 | 3.56E-05 | 2.69E-06 | 2.69E-06 | 1.48E-06 | 1.33E-06 | 1.92E-06 | 1.20E-05 | 1.20E-05 | 5.92E-06 |
| 160 | 258822.5 | 4085216 | 1.36E-05 | 2.26E-04 | 1.67E-04 | 1.67E-04 | 9.29E-05 | 2.37E-06 | 3.45E-05 | 2.60E-05 | 2.60E-06 | 1.43E-05 | 1.29E-06 | 1.86E-05 | 1.16E-05 | 1.16E-05 | 5.73E-06 |
| 161 | 258814.2 | 4085239 | 1.51E-05 | 2.19E-04 | 1.61E-04 | 1.61E-04 | 9.00E-05 | 2.30E-06 | 3.34E-05 | 2.52E-05 | 2.52E-05 | 1.39E-05 | 1.25E-06 | 1.80E-06 | 1.12E-05 | 1.12E-05 | 5.55E-06 |
| 162 | 258805.8 | 4085261 | 1.47E-05 | 2.12E-04 | 1.36E-04 | 1.56E-04 | 8.71E-05 | 2.22E-06 | 3.23E-05 | 2.44E-05 | 2.44E-05 | 1.34E-05 | 1.21E-06 | 1.75E-05 | 1.09E-05 | 1.09E-05 | 5.37E-06 |
| 163 | 258797.5 | 4085283 | 1.42E-06 | 2.05E-04 | 1.51E-04 | 1.51E-04 | 8.43E-05 | 2.15E-06 | 3.12E-05 | 2.36E-05 | 2.36E-05 | 1.30E-05 | 1.17E-05 | 1.69E-05 | 1.05E-05 | 1.05E-06 | 5.20E-06 |
| 164 | 258789.2 | 4085305 | 1.37E-05 | 1.98E-04 | 1.46E-04 | 1.46E-04 | 8.14E-05 | 2.08E-06 | 3.02E-05 | 2.28E-06 | 2.28E-05 | 1.25E-05 | 1.13E-06 | 1.63E-05 | 1.01E-06 | 1.01E-06 | 5.02E-06 |
| 165 | 258780.8 | 4085327 | 1.32E-05 | 1.91E-04 | 1.40E-04 | 1.40E-04 | 7.83E-05 | 2.00E-06 | 2.90E-05 | 2.19E-06 | 2.19E-06 | 1.21E-06 | 1.09E-06 | 1.57E-06 | 9.76E-06 | 9.76E-06 | 4.83E-06 |
| 166 | 258772.5 | 4085350 | 1.27E-05 | 1.84E-04 | 1.36E-04 | 1.36E-04 | 7.57E-06 | 1.93E-06 | 2.81E-05 | 2.12E-06 | 2.12E-06 | 1.17E-05 | 1.05E-06 | 1.52E-06 | 9.43E-06 | 9.43E-06 | 4.67E-06 |
| 167 | 258764.1 | 4085372 | 1.23E-05 | 1.78E-04 | 1.31E-04 | 1.31E-04 | 7.33E-06 | 1.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-06 | 9.13E-06 | 9.13E-06 | 4.52E-06 |
| 168 | 258755.8 | 4085394 | 1.19E-05 | 1.73E-04 | 1.27E-04 | 1.27E-04 | 7.09E-05 | 1.81E-06 | 2.63E-05 | 1.99E-05 | 1.99E-05 | 1.09E-05 | 9.84E-07 | 1.42E-06 | 8.84E-06 | 8.84E-06 | 4.38E-06 |
| 169 | 258747.4 | 4085416 | 1.16E-05 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.88E-05 | 1.76E-06 | 2.55E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.54E-07 | 1.38E-05 | 8.57E-06 | 8.57E-06 | 4.24E-06 |
| 170 | 258739.1 | 4085438 | 1.12E-05 | 1.62E-04 | 1.20E-04 | 1.20E-04 | 6.67E-05 | 1.70E-06 | 2.47E-05 | 1.87E-05 | 1.87E-05 | 1.03E-05 | 9.26E-07 | 1.34E-05 | 8.32E-06 | 8.32E-06 | 4.12E-06 |
| 171 | 258709.2 | 4085470 | 1.12E-05 | 1.61E-04 | 1.19E-04 | 1.19E-04 | 6.63E-06 | 1.69E-06 | 2.46E-05 | 1.86E-05 | 1.86E-05 | 1.02E-05 | 9.19E-07 | 1.33E-06 | 8.26E-06 | 8.26E-06 | 4.09E-06 |
| 172 | 258687.7 | 4085480 | 1.14E-06 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.78E-05 | 1.73E-06 | 2.51E-05 | 1.90E-05 | 1.90E-05 | 1.04E-05 | 9.40E-07 | 1.36E-05 | 8.45E-06 | 8.45E-06 | 4.18E-06 |
| 173 | 258666.2 | 4085490 | 1.17E-05 | 1.69E-04 | 1.25E-04 | 1.25E-04 | 6.95E-05 | 1.77E-06 | 2.58E-05 | 1.95E-05 | 1.95E-06 | 1.07E-05 | 9.64E-07 | 1.39E-05 | 8.66E-06 | 8.66E-06 | 4.29E-06 |
| 174 | 258644.7 | 4085500 | 1.20E-05 | 1.74E-04 | 1.28E-04 | 1.28E-04 | 7.14E-05 | 1.82E-06 | 2.65E-05 | 2.00E-05 | 2.00E-06 | 1.10E-05 | 9.90E-07 | 1.43E-05 | 8.89E-06 | 8.89E-06 | 4.40E-06 |
| 175 | 258623.2 | 4085510 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.88E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-06 | 9.15E-06 | 9.15E-06 | 4.53E-06 |
| 176 | 258601.7 | 4085520 | 1.27E-05 | 1.84E-04 | 1.36E-04 | 1.36E-04 | 7.57E-05 | 1.93E-06 | 2.81E-05 | 2.12E-05 | 2.12E-05 | 1.17E-05 | 1.05E-06 | 1.52E-06 | 9.44E-06 | 9.44E-06 | 4.67E-06 |
| 177 | 258580.2 | 4085530 | 1.31E-06 | 1.90E-04 | 1.40E-04 | 1.40E-04 | 7.81E-05 | 1.99E-06 | 2.89E-05 | 2.19E-06 | 2.19E-06 | 1.20E-05 | 1.08E-06 | 1.57E-06 | 9.73E-06 | 9.73E-06 | 4.82E-06 |
| 178 | 258558.7 | 4085540 | 1.35E-06 | 1.96E-04 | 1.44E-04 | 1.44E-04 | 8.05E-05 | 2.05E-06 | 2.98E-05 | 2.25E-06 | 2.25E-06 | 1.24E-06 | 1.12E-06 | 1.61E-05 | 1.00E-06 | 1.00E-06 | 4.96E-06 |
| 179 | 258537.2 | 4085550 | 1.39E-05 | 2.01E-04 | 1.48E-04 | 1.48E-04 | 8.26E-05 | 2.11E-06 | 3.06E-05 | 2.31E-05 | 2.31E-05 | 1.27E-05 | 1.15E-06 | 1.66E-05 | 1.03E-06 | 1.03E-06 | 5.10E-06 |
| 180 | 258515.7 | 4085560 | 1.42E-05 | 2.06E-04 | 1.51E-04 | 1.51E-04 | 8.45E-05 | 2.16E-06 | 3.13E-05 | 2.37E-05 | 2.37E-05 | 1.30E-05 | 1.17E-05 | 1.69E-05 | 1.05E-05 | 1.05E-06 | 5.21E-06 |
| 181 | 258494.1 | 4085570 | 1.45E-05 | 2.10E-04 | 1.55E-04 | 1.55E-04 | 8.62E-05 | 2.20E-06 | 3.20E-05 | 2.41E-06 | 2.41E-06 | 1.33E-05 | 1.20E-06 | 1.73E-06 | 1.07E-05 | 1.07E-06 | 5.32E-06 |
| 182 | 258472.6 | 4085580 | 1.48E-06 | 2.14E-04 | 1.58E-04 | 1.58E-04 | 8.81E-06 | 2.25E-06 | 3.26E-05 | 2.47E-06 | 2.47E-05 | 1.36E-06 | 1.22E-06 | 1.77E-05 | 1.10E-05 | 1.10E-05 | 5.43E-06 |
| 183 | 258451.1 | 4085590 | 1.52E-05 | 2.19E-04 | 1.62E-04 | 1.62E-04 | 9.01E-05 | 2.30E-06 | 3.34E-05 | 2.52E-05 | 2.52E-05 | 1.39E-05 | 1.25E-06 | 1.81E-05 | 1.12E-05 | 1.12E-05 | 5.55E-06 |
| 184 | 258429.6 | 4085600 | 1.55E-06 | 2.24E-04 | 1.65E-04 | 1.65E-04 | 9.22E-05 | 2.35E-06 | 3.42E-05 | 2.58E-05 | 2.58E-05 | 1.42E-05 | 1.28E-06 | 1.85E-05 | 1.15E-06 | 1.15E-06 | 5.69E-06 |
| 185 | 258403.1 | 4085610 | 1.59E-06 | 2.30E-04 | 1.69E-04 | 1.69E-04 | 9.45E-05 | 2.41E-06 | 3.50E-05 | 2.65E-05 | 2.65E-05 | 1.45E-05 | 1.31E-06 | 1.89E-05 | 1.18E-06 | 1.18E-05 | 5.83E-06 |
| 186 | 258864.3 | 4085106 | 1.80E-05 | 2.61E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.73E-06 | 3.97E-05 | 3.00E-05 | 3.00E-05 | 1.65E-05 | 1.49E-06 | 2.15E-06 | 1.33E-05 | 1.33E-06 | 6.60E-06 |
| 187 | 258863.5 | 4085081 | 1.90E-05 | 2.75E-04 | 2.03E-04 | 2.03E-04 | 1.13E-04 | 2.89E-06 | 4.19E-05 | 3.17E-05 | 3.17E-05 | 1.74E-05 | 1.57E-06 | 2.27E-05 | 1.41E-05 | 1.41E-05 | 6.98E-06 |
| 188 | 258862.8 | 4085056 | 2.01E-06 | 2.91E-04 | 2.15E-04 | 2.15E-04 | 1.20E-04 | 3.06E-06 | 4.44E-05 | 3.35E-05 | 3.35E-06 | 1.84E-06 | 1.66E-05 | 2.40E-05 | 1.49E-06 | 1.49E-06 | 7.38E-06 |
| 189 | 258862.1 | 4085031 | 2.13E-06 | 3.09E-04 | 2.28E-04 | 2.28E-04 | 1.27E-04 | 3.24E-06 | 4.70E-05 | 3.55E-06 | 3.55E-06 | 1.95E-06 | 1.76E-06 | 2.55E-06 | 1.58E-06 | 1.58E-06 | 7.83E-06 |
| 190 | 258861.4 | 4085007 | 2.27E-06 | 3.28E-04 | 2.41E-04 | 2.41E-04 | 1.35E-04 | 3.44E-06 | 4.99E-05 | 3.77E-05 | 3.77E-05 | 2.07E-05 | 1.87E-06 | 2.70E-05 | 1.68E-05 | 1.68E-06 | 8.30E-06 |
| 191 | 258860.6 | 4084982 | 2.41E-05 | 3.48E-04 | 2.57E-04 | 2.57E-04 | 1.43E-04 | 3.65E-06 | 5.30E-05 | 4.01E-05 | 4.01E-05 | 2.20E-05 | 1.98E-06 | 2.87E-05 | 1.78E-05 | 1.78E-05 | 8.82E-06 |
| 192 | 258859.9 | 4084957 | 2.56E-05 | 3.70E-04 | 2.73E-04 | 2.73E-04 | 1.52E-04 | 3.88E-06 | 5.64E-05 | 4.26E-05 | 4.26E-05 | 2.34E-05 | 2.11E-06 | 3.05E-05 | 1.89E-05 | 1.89E-05 | 9.38E-06 |
| 193 | 258859.2 | 4084932 | 2.72E-06 | 3.93E-04 | 2.90E-04 | 2.90E-04 | 1.62E-04 | 4.13E-06 | 5.99E-05 | 4.53E-05 | 4.53E-05 | 2.49E-05 | 2.24E-06 | 3.24E-05 | 2.01E-06 | 2.01E-05 | 9.97E-06 |
| 194 | 258858.5 | 4084907 | 2.89E-05 | 4.18E-04 | 3.08E-04 | 3.08E-04 | 1.72E-04 | 4.38E-06 | 6.36E-05 | 4.81E-05 | 4.81E-05 | 2.64E-05 | 2.38E-06 | 3.44E-05 | 2.14E-05 | 2.14E-05 | 1.06E-05 |
| 195 | 258955.8 | 4085125 | 1.39E-06 | 2.00E-04 | 1.48E-04 | 1.48E-04 | 8.23E-05 | 2.10E-06 | 3.05E-06 | 2.31E-06 | 2.31E-06 | 1.27E-06 | 1.14E-06 | 1.65E-06 | 1.03E-05 | 1.03E-05 | 5.08E-06 |
| 196 | 258947.3 | 4085147 | 1.36E-05 | 1.96E-04 | 1.45E-04 | 1.45E-04 | 8.06E-05 | 2.06E-06 | 2.99E-06 | 2.26E-06 | 2.26E-06 | 1.24E-06 | 1.12E-06 | 1.62E-06 | 1.00E-06 | 1.00E-06 | 4.97E-06 |
| 197 | 258938.9 | 4085170 | 1.32E-05 | 1.92E-04 | 1.41E-04 | 1.41E-04 | 7.87E-05 | 2.01E-06 | 2.92E-05 | 2.20E-06 | 2.20E-06 | 1.21E-05 | 1.09E-06 | 1.58E-06 | 9.81E-06 | 9.81E-06 | 4.85E-06 |
| 198 | 258930.5 | 4085192 | 1.29E-05 | 1.87E-04 | 1.38E-04 | 1.38E-04 | 7.67E-05 | 1.96E-06 | 2.84E-05 | 2.15E-05 | 2.15E-05 | 1.18E-05 | 1.06E-06 | 1.54E-06 | 9.56E-06 | 9.56E-06 | 4.73E-06 |
| 199 | 258922.1 | 4085215 | 1.26E-05 | 1.82E-04 | 1.34E-04 | 1.34E-04 | 7.46E-05 | 1.91E-06 | 2.77E-05 | 2.09E-05 | 2.09E-05 | 1.15E-05 | 1.04E-06 | 1.50E-05 | 9.30E-06 | 9.30E-06 | 4.60E-06 |
| 200 | 258913.6 | 4085237 | 1.22E-05 | 1.77E-04 | 1.30E-04 | 1.30E-04 | 7.26E-05 | 1.85E-06 | 2.69E-05 | 2.03E-05 | 2.03E-05 | 1.12E-05 | 1.01E-06 | 1.46E-05 | 9.04E-06 | 9.04E-06 | 4.47E-06 |
| 201 | 258905.2 | 4085260 | 1.19E-05 | 1.72E-04 | 1.26E-04 | 1.26E-04 | 7.05E-05 | 1.80E-06 | 2.61E-05 | 1.97E-06 | 1.97E-05 | 1.09E-06 | 9.78E-07 | 1.41E-05 | 8.79E-06 | 8.79E-06 | 4.35E-06 |
| 202 | 258896.8 | 4085282 | 1.15E-05 | 1.66E-04 | 1.23E-04 | 1.23E-04 | 6.83E-05 | 1.75E-06 | 2.53E-05 | 1.91E-05 | 1.91E-05 | 1.05E-05 | 9.48E-07 | 1.37E-05 | 8.52E-06 | 8.52E-06 | 4.22E-06 |

| | | | UnMitigated | | 11 | | | T2L3 | | | | | T4 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 7 | 258385.11 | 4084970.84 | | | | | | | | | | | | |
| | | | 7.00E-04 | 1.01E-02 | 7.46E-03 | 7.46E-03 | 4.16E-03 | 1.06E-04 | 1.54E-03 | 1.17E-03 | 1.17E-03 | 6.41E-04 | 5.77E-05 | 8.35E-04 | 5.19E-04 | 5.19E-04 | 2.57E-04 |
| | | | Yr 1 | Yr 2 | Yr 3 | Yr 4 | Yr 5 | Yr 1 | Yr 2 | Yr 3 | Yr 4 | Yr 5 | Yr 1 | Yr 2 | Yr 3 | Yr 4 | Yr 5 |
| 1 | 258389.5 | 4085119 | 2.39E-04 | 3.46E-03 | 2.55E-03 | 2.55E-03 | 1.42E-03 | 3.63E-05 | 5.26E-04 | 3.98E-04 | 3.98E-04 | 2.19E-04 | 1.97E-05 | 2.85E-04 | 1.77E-04 | 1.77E-04 | 8.76E-05 |
| 2 | 258388.7 | 4085095 | 3.81E-04 | 5.51E-03 | 4.06E-03 | 4.06E-03 | 2.26E-03 | 5.78E-05 | 8.39E-04 | 6.34E-04 | 6.34E-04 | 3.48E-04 | 3.14E-05 | 4.54E-04 | 2.82E-04 | 2.82E-04 | 1.40E-04 |
| 3 | 258388 | 4085070 | 5.28E-04 | 7.63E-03 | 5.63E-03 | 5.63E-03 | 3.14E-03 | 8.01E-05 | 1.16E-03 | 8.79E-04 | 8.79E-04 | 4.83E-04 | 4.35E-05 | 6.29E-04 | 3.91E-04 | 3.91E-04 | 1.93E-04 |
| 4 | 258387.3 | 4085045 | 6.21E-04 | 8.98E-03 | 6.62E-03 | 6.62E-03 | 3.69E-03 | 9.42E-05 | 1.37E-03 | 1.03E-03 | 1.03E-03 | 5.68E-04 | 5.12E-05 | 7.40E-04 | 4.60E-04 | 4.60E-04 | 2.28E-04 |
| 5 | 258386.6 | 4085020 | 6.74E-04 | 9.75E-03 | 7.19E-03 | 7.19E-03 | 4.01E-03 | 1.02E-04 | 1.49E-03 | 1.12E-03 | 1.12E-03 | 6.17E-04 | 5.56E-05 | 8.04E-04 | 4.99E-04 | 4.99E-04 | 2.47E-04 |
| 6 | 258385.8 | 4084996 | 7.00E-04 | 1.01E-02 | 7.46E-03 | 7.46E-03 | 4.16E-03 | 1.06E-04 | 1.54E-03 | 1.17E-03 | 1.17E-03 | 6.41E-04 | 5.77E-05 | 8.35E-04 | 5.18E-04 | 5.18E-04 | 2.57E-04 |
| 7 | 258385.1 | 4084971 | 7.00E-04 | 1.01E-02 | 7.46E-03 | 7.46E-03 | 4.16E-03 | 1.06E-04 | 1.54E-03 | 1.17E-03 | 1.17E-03 | 6.41E-04 | 5.77E-05 | 8.35E-04 | 5.19E-04 | 5.19E-04 | 2.57E-04 |
| 8 | 258384.4 | 4084946 | 6.71E-04 | 9.71E-03 | 7.16E-03 | 7.16E-03 | 3.99E-03 | 1.02E-04 | 1.48E-03 | 1.12E-03 | 1.12E-03 | 6.14E-04 | 5.53E-05 | 8.00E-04 | 4.97E-04 | 4.97E-04 | 2.46E-04 |
| 9 | 258383.7 | 4084921 | 5.79E-04 | 8.37E-03 | 6.17E-03 | 6.17E-03 | 3.44E-03 | 8.79E-05 | 1.28E-03 | 9.64E-04 | 9.64E-04 | 5.30E-04 | 4.77E-05 | 6.90E-04 | 4.29E-04 | 4.29E-04 | 2.12E-04 |
| 10 | 258407.8 | 4085136 | 1.47E-04 | 2.13E-03 | 1.57E-03 | 1.57E-03 | 8.74E-04 | 2.23E-05 | 3.24E-04 | 2.45E-04 | 2.45E-04 | 1.35E-04 | 1.21E-05 | 1.75E-04 | 1.09E-04 | 1.09E-04 | 5.39E-05 |
| 11 | 258383.9 | 4085162 | 1.42E-04 | 2.05E-03 | 1.51E-03 | 1.51E-03 | 8.43E-04 | 2.15E-05 | 3.13E-04 | 2.36E-04 | 2.36E-04 | 1.30E-04 | 1.17E-05 | 1.69E-04 | 1.05E-04 | 1.05E-04 | 5.20E-05 |
| 12 | 258413.7 | 4085094 | 2.34E-04 | 3.39E-03 | 2.50E-03 | 2.50E-03 | 1.39E-03 | 3.56E-05 | 5.16E-04 | 3.90E-04 | 3.90E-04 | 2.14E-04 | 1.93E-05 | 2.79E-04 | 1.74E-04 | 1.74E-04 | 8.59E-05 |
| 13 | 258413 | 4085069 | 3.15E-04 | 4.55E-03 | 3.35E-03 | 3.35E-03 | 1.87E-03 | 4.78E-05 | 6.93E-04 | 5.24E-04 | 5.24E-04 | 2.88E-04 | 2.59E-05 | 3.75E-04 | 2.33E-04 | 2.33E-04 | 1.15E-04 |
| 14 | 258412.3 | 4085044 | 3.83E-04 | 5.54E-03 | 4.09E-03 | 4.09E-03 | 2.28E-03 | 5.82E-05 | 8.45E-04 | 6.38E-04 | 6.38E-04 | 3.51E-04 | 3.16E-05 | 4.57E-04 | 2.84E-04 | 2.84E-04 | 1.40E-04 |
| 15 | 258411.6 | 4085020 | 4.32E-04 | 6.25E-03 | 4.60E-03 | 4.60E-03 | 2.57E-03 | 6.55E-05 | 9.51E-04 | 7.19E-04 | 7.19E-04 | 3.95E-04 | 3.56E-05 | 5.15E-04 | 3.20E-04 | 3.20E-04 | 1.58E-04 |
| 16 | 258410.8 | 4084995 | 4.61E-04 | 6.67E-03 | 4.92E-03 | 4.92E-03 | 2.74E-03 | 7.00E-05 | 1.02E-03 | 7.67E-04 | 7.67E-04 | 4.22E-04 | 3.80E-05 | 5.50E-04 | 3.41E-04 | 3.41E-04 | 1.69E-04 |
| 17 | 258410.1 | 4084970 | 4.72E-04 | 6.83E-03 | 5.03E-03 | 5.03E-03 | 2.81E-03 | 7.17E-05 | 1.04E-03 | 7.86E-04 | 7.86E-04 | 4.32E-04 | 3.89E-05 | 5.63E-04 | 3.50E-04 | 3.50E-04 | 1.73E-04 |
| 18 | 258409.4 | 4084945 | 4.63E-04 | 6.70E-03 | 4.93E-03 | 4.93E-03 | 2.75E-03 | 7.03E-05 | 1.02E-03 | 7.71E-04 | 7.71E-04 | 4.24E-04 | 3.82E-05 | 5.52E-04 | 3.43E-04 | 3.43E-04 | 1.70E-04 |
| 19 | 258408.7 | 4084921 | 4.30E-04 | 6.21E-03 | 4.58E-03 | 4.58E-03 | 2.55E-03 | 6.52E-05 | 9.46E-04 | 7.15E-04 | 7.15E-04 | 3.93E-04 | 3.54E-05 | 5.12E-04 | 3.18E-04 | 3.18E-04 | 1.57E-04 |
| 20 | 258432.8 | 4085136 | 1.16E-04 | 1.67E-03 | 1.23E-03 | 1.23E-03 | 6.88E-04 | 1.76E-05 | 2.55E-04 | 1.93E-04 | 1.93E-04 | 1.06E-04 | 9.54E-06 | 1.38E-04 | 8.57E-05 | 8.57E-05 | 4.24E-05 |
| 21 | 258402.2 | 4085179 | 1.02E-04 | 1.48E-03 | 1.09E-03 | 1.09E-03 | 6.06E-04 | 1.55E-05 | 2.25E-04 | 1.70E-04 | 1.70E-04 | 9.34E-05 | 8.41E-06 | 1.22E-04 | 7.56E-05 | 7.56E-05 | 3.74E-05 |
| 22 | 258438.7 | 4085093 | 1.66E-04 | 2.40E-03 | 1.77E-03 | 1.77E-03 | 9.88E-04 | 2.52E-05 | 3.66E-04 | 2.77E-04 | 2.77E-04 | 1.52E-04 | 1.37E-05 | 1.98E-04 | 1.23E-04 | 1.23E-04 | 6.09E-05 |
| 23 | 258438 | 4085068 | 2.14E-04 | 3.09E-03 | 2.28E-03 | 2.28E-03 | 1.27E-03 | 3.24E-05 | 4.70E-04 | 3.55E-04 | 3.55E-04 | 1.95E-04 | 1.76E-05 | 2.55E-04 | 1.58E-04 | 1.58E-04 | 7.83E-05 |
| 24 | 258437.3 | 4085044 | 2.61E-04 | 3.77E-03 | 2.78E-03 | 2.78E-03 | 1.55E-03 | 3.96E-05 | 5.74E-04 | 4.34E-04 | 4.34E-04 | 2.39E-04 | 2.15E-05 | 3.11E-04 | 1.93E-04 | 1.93E-04 | 9.56E-05 |
| 25 | 258436.5 | 4085019 | 3.00E-04 | 4.34E-03 | 3.20E-03 | 3.20E-03 | 1.78E-03 | 4.55E-05 | 6.61E-04 | 4.99E-04 | 4.99E-04 | 2.74E-04 | 2.47E-05 | 3.57E-04 | 2.22E-04 | 2.22E-04 | 1.10E-04 |
| 26 | 258435.8 | 4084994 | 3.28E-04 | 4.74E-03 | 3.49E-03 | 3.49E-03 | 1.95E-03 | 4.97E-05 | 7.22E-04 | 5.45E-04 | 5.45E-04 | 3.00E-04 | 2.70E-05 | 3.91E-04 | 2.43E-04 | 2.43E-04 | 1.20E-04 |
| 27 | 258435.1 | 4084969 | 3.43E-04 | 4.96E-03 | 3.66E-03 | 3.66E-03 | 2.04E-03 | 5.21E-05 | 7.56E-04 | 5.71E-04 | 5.71E-04 | 3.14E-04 | 2.83E-05 | 4.09E-04 | 2.54E-04 | 2.54E-04 | 1.26E-04 |
| 28 | 258434.4 | 4084945 | 3.45E-04 | 4.99E-03 | 3.68E-03 | 3.68E-03 | 2.05E-03 | 5.23E-05 | 7.60E-04 | 5.74E-04 | 5.74E-04 | 3.16E-04 | 2.84E-05 | 4.11E-04 | 2.55E-04 | 2.55E-04 | 1.26E-04 |
| 29 | 258433.7 | 4084920 | 3.33E-04 | 4.82E-03 | 3.55E-03 | 3.55E-03 | 1.98E-03 | 5.06E-05 | 7.34E-04 | 5.55E-04 | 5.55E-04 | 3.05E-04 | 2.75E-05 | 3.97E-04 | 2.47E-04 | 2.47E-04 | 1.22E-04 |
| 30 | 258457.7 | 4085135 | 9.45E-05 | 1.37E-03 | 1.01E-03 | 1.01E-03 | 5.62E-04 | 1.43E-05 | 2.08E-04 | 1.57E-04 | 1.57E-04 | 8.65E-05 | 7.79E-06 | 1.13E-04 | 7.00E-05 | 7.00E-05 | 3.46E-05 |
| 31 | 258444.4 | 4085170 | 7.99E-05 | 1.16E-03 | 8.52E-04 | 8.52E-04 | 4.75E-04 | 1.21E-05 | 1.76E-04 | 1.33E-04 | 1.33E-04 | 7.31E-05 | 6.59E-06 | 9.53E-05 | 5.92E-05 | 5.92E-05 | 2.93E-05 |
| 32 | 258420.5 | 4085196 | 7.84E-05 | 1.13E-03 | 8.36E-04 | 8.36E-04 | 4.66E-04 | 1.19E-05 | 1.73E-04 | 1.31E-04 | 1.31E-04 | 7.17E-05 | 6.46E-06 | 9.35E-05 | 5.81E-05 | 5.81E-05 | 2.87E-05 |
| 33 | 258386.1 | 4085212 | 8.81E-05 | 1.27E-03 | 9.39E-04 | 9.39E-04 | 5.23E-04 | 1.34E-05 | 1.94E-04 | 1.47E-04 | 1.47E-04 | 8.06E-05 | 7.26E-06 | 1.05E-04 | 6.52E-05 | 6.52E-05 | 3.23E-05 |
| 34 | 258463.7 | 4085092 | 1.27E-04 | 1.84E-03 | 1.36E-03 | 1.36E-03 | 7.57E-04 | 1.93E-05 | 2.81E-04 | 2.12E-04 | 2.12E-04 | 1.17E-04 | 1.05E-05 | 1.52E-04 | 9.43E-05 | 9.43E-05 | 4.67E-05 |
| 35 | 258463 | 4085068 | 1.58E-04 | 2.28E-03 | 1.68E-03 | 1.68E-03 | 9.37E-04 | 2.39E-05 | 3.47E-04 | 2.62E-04 | 2.62E-04 | 1.44E-04 | 1.30E-05 | 1.88E-04 | 1.17E-04 | 1.17E-04 | 5.78E-05 |
| 36 | 258462.3 | 4085043 | 1.90E-04 | 2.75E-03 | 2.03E-03 | 2.03E-03 | 1.13E-03 | 2.89E-05 | 4.19E-04 | 3.16E-04 | 3.16E-04 | 1.74E-04 | 1.57E-05 | 2.27E-04 | 1.41E-04 | 1.41E-04 | 6.97E-05 |
| 37 | 258461.5 | 4085018 | 2.20E-04 | 3.18E-03 | 2.35E-03 | 2.35E-03 | 1.31E-03 | 3.34E-05 | 4.85E-04 | 3.66E-04 | 3.66E-04 | 2.01E-04 | 1.81E-05 | 2.62E-04 | 1.63E-04 | 1.63E-04 | 8.07E-05 |
| 38 | 258460.8 | 4084993 | 2.44E-04 | 3.53E-03 | 2.60E-03 | 2.60E-03 | 1.45E-03 | 3.71E-05 | 5.38E-04 | 4.06E-04 | 4.06E-04 | 2.23E-04 | 2.01E-05 | 2.91E-04 | 1.81E-04 | 1.81E-04 | 8.95E-05 |
| 39 | 258460.1 | 4084969 | 2.60E-04 | 3.77E-03 | 2.78E-03 | 2.78E-03 | 1.55E-03 | 3.95E-05 | 5.74E-04 | 4.33E-04 | 4.33E-04 | 2.38E-04 | 2.15E-05 | 3.10E-04 | 1.93E-04 | 1.93E-04 | 9.54E-05 |
| 40 | 258459.4 | 4084944 | 2.67E-04 | 3.87E-03 | 2.85E-03 | 2.85E-03 | 1.59E-03 | 4.06E-05 | 5.89E-04 | 4.45E-04 | 4.45E-04 | 2.45E-04 | 2.20E-05 | 3.19E-04 | 1.98E-04 | 1.98E-04 | 9.80E-05 |
| 41 | 258458.6 | 4084919 | 2.64E-04 | 3.82E-03 | 2.81E-03 | 2.81E-03 | 1.57E-03 | 4.01E-05 | 5.82E-04 | 4.39E-04 | 4.39E-04 | 2.42E-04 | 2.18E-05 | 3.15E-04 | 1.96E-04 | 1.96E-04 | 9.68E-05 |
| 42 | 258506.4 | 4085137 | 6.69E-05 | 9.67E-04 | 7.13E-04 | 7.13E-04 | 3.97E-04 | 1.02E-05 | 1.47E-04 | 1.11E-04 | 1.11E-04 | 6.12E-05 | 5.51E-06 | 7.97E-05 | 4.95E-05 | 4.95E-05 | 2.45E-05 |
| 43 | 258498.4 | 4085158 | 6.18E-05 | 8.94E-04 | 6.59E-04 | 6.59E-04 | 3.67E-04 | 9.38E-06 | 1.36E-04 | 1.03E-04 | 1.03E-04 | 5.65E-05 | 5.09E-06 | 7.37E-05 | 4.58E-05 | 4.58E-05 | 2.26E-05 |
| 44 | 258490.4 | 4085180 | 5.71E-05 | 8.26E-04 | 6.09E-04 | 6.09E-04 | 3.40E-04 | 8.67E-06 | 1.26E-04 | 9.51E-05 | 9.51E-05 | 5.23E-05 | 4.71E-06 | 6.81E-05 | 4.23E-05 | 4.23E-05 | 2.09E-05 |
| 45 | 258482.4 | 4085201 | 5.30E-05 | 7.66E-04 | 5.65E-04 | 5.65E-04 | 3.15E-04 | 8.04E-06 | 1.17E-04 | 8.82E-05 | 8.82E-05 | 4.85E-05 | 4.37E-06 | 6.32E-05 | 3.92E-05 | 3.92E-05 | 1.94E-05 |
| 46 | 258453.7 | 4085232 | 5.22E-05 | 7.55E-04 | 5.56E-04 | 5.56E-04 | 3.10E-04 | 7.92E-06 | 1.15E-04 | 8.69E-05 | 8.69E-05 | 4.78E-05 | 4.30E-06 | 6.22E-05 | 3.87E-05 | 3.87E-05 | 1.91E-05 |
| 47 | 258433.1 | 4085241 | 5.52E-05 | 7.99E-04 | 5.89E-04 | 5.89E-04 | 3.28E-04 | 8.38E-06 | 1.22E-04 | 9.19E-05 | 9.19E-05 | 5.05E-05 | 4.55E-06 | 6.59E-05 | 4.09E-05 | 4.09E-05 | 2.02E-05 |
| 48 | 258412.4 | 4085251 | 5.83E-05 | 8.44E-04 | 6.22E-04 | 6.22E-04 | 3.47E-04 | 8.85E-06 | 1.29E-04 | 9.71E-05 | 9.71E-05 | 5.34E-05 | 4.81E-06 | 6.96E-05 | 4.32E-05 | 4.32E-05 | 2.14E-05 |
| 49 | 258391.8 | 4085260 | 6.15E-05 | 8.89E-04 | 6.55E-04 | 6.55E-04 | 3.65E-04 | 9.33E-06 | 1.35E-04 | 1.02E-04 | 1.02E-04 | 5.63E-05 | 5.07E-06 | 7.33E-05 | 4.55E-05 | 4.55E-05 | 2.25E-05 |
| 50 | 258514.4 | 4085116 | 7.23E-05 | 1.05E-03 | 7.71E-04 | 7.71E-04 | 4.30E-04 | 1.10E-05 | 1.59E-04 | 1.20E-04 | 1.20E-04 | 6.62E-05 | 5.96E-06 | 8.62E-05 | 5.35E-05 | 5.35E-05 | 2.65E-05 |
| 51 | 258513.7 | 4085091 | 8.46E-05 | 1.22E-03 | 9.02E-04 | 9.02E-04 | 5.03E-04 | 1.28E-05 | 1.86E-04 | 1.41E-04 | 1.41E-04 | 7.75E-05 | 6.98E-06 | 1.01E-04 | 6.27E-05 | 6.27E-05 | 3.10E-05 |
| 52 | 258513 | 4085066 | 9.95E-05 | 1.44E-03 | 1.06E-03 | 1.06E-03 | 5.91E-04 | 1.51E-05 | 2.19E-04 | 1.66E-04 | 1.66E-04 | 9.10E-05 | 8.20E-06 | 1.19E-04 | 7.37E-05 | 7.37E-05 | 3.65E-05 |
| 53 | 258512.2 | 4085041 | 1.16E-04 | 1.68E-03 | 1.24E-03 | 1.24E-03 | 6.90E-04 | 1.76E-05 | 2.56E-04 | 1.93E-04 | 1.93E-04 | 1.06E-04 | 9.57E-06 | 1.38E-04 | 8.60E-05 | 8.60E-05 | 4.26E-05 |
| 54 | 258511.5 | 4085017 | 1.33E-04 | 1.93E-03 | 1.42E-03 | 1.42E-03 | 7.92E-04 | 2.02E-05 | 2.94E-04 | 2.22E-04 | 2.22E-04 | 1.22E-04 | 1.10E-05 | 1.59E-04 | 9.87E-05 | 9.87E-05 | 4.89E-05 |
| 55 | 258510.8 | 4084992 | 1.49E-04 | 2.16E-03 | 1.59E-03 | 1.59E-03 | 8.87E-04 | 2.27E-05 | 3.29E-04 | 2.49E-04 | 2.49E-04 | 1.37E-04 | 1.23E-05 | 1.78E-04 | 1.11E-04 | 1.11E-04 | 5.47E-05 |
| 56 | 258510.1 | 4084967 | 1.63E-04 | 2.35E-03 | 1.73E-03 | 1.73E-03 | 9.66E-04 | 2.47E-05 | 3.58E-04 | 2.71E-04 | 2.71E-04 | 1.49E-04 | 1.34E-05 | 1.94E-04 | 1.20E-04 | 1.20E-04 | 5.96E-05 |
| 57 | 258509.3 | 4084942 | 1.72E-04 | 2.49E-03 | 1.83E-03 | 1.83E-03 | 1.02E-03 | 2.61E-05 | 3.79E-04 | 2.86E-04 | 2.86E-04 | 1.57E-04 | 1.42E-05 | 2.05E-04 | 1.27E-04 | 1.27E-04 | 6.31E-05 |
| 58 | 258508.6 | 4084918 | 1.77E-04 | 2.56E-03 | 1.89E-03 | 1.89E-03 | 1.05E-03 | 2.68E-05 | 3.90E-04 | 2.94E-04 | 2.94E-04 | 1.62E-04 | 1.46E-05 | 2.11E-04 | 1.31E-04 | 1.31E-04 | 6.48E-05 |
| 59 | 258556.8 | 4085135 | 5.12E-05 | 7.41E-04 | 5.46E-04 | 5.46E-04 | 3.05E-04 | 7.78E-06 | 1.13E-04 | 8.53E-05 | 8.53E-05 | 4.69E-05 | 4.22E-06 | 6.11E-05 | 3.80E-05 | 3.80E-05 | 1.88E-05 |
| 60 | 258541.5 | 4085175 | 4.54E-05 | 6.56E-04 | 4.84E-04 | 4.84E-04 | 2.70E-04 | 6.88E-06 | 9.99E-05 | 7.55E-05 | 7.55E-05 | 4.15E-05 | 3.74E-06 | 5.41E-05 | 3.36E-05 | 3.36E-05 | 1.66E-05 |
| 61 | 258526.2 | 4085216 | 4.01E-05 | 5.80E-04 | 4.28E-04 | 4.28E-04 | 2.38E-04 | 6.09E-06 | 8.84E-05 | 6.68E-05 | 6.68E-05 | 3.67E-05 | 3.31E-06 | 4.78E-05 | 2.97E-05 | 2.97E-05 | 1.47E-05 |
| 62 | 258491.3 | 4085265 | 3.74E-05 | 5.41E-04 | 3.99E-04 | 3.99E-04 | 2.22E-04 | 5.68E-06 | 8.24E-05 | 6.23E-05 | 6.23E-05 | 3.42E-05 | 3.08E-06 | 4.46E-05 | 2.77E-05 | 2.77E-05 | 1.37E-05 |
| 63 | 258452 | 4085284 | 4.10E-05 | 5.93E-04 | 4.37E-04 | 4.37E-04 | 2.44E-04 | 6.22E-06 | 9.03E-05 | 6.82E-05 | 6.82E-05 | 3.75E-05 | 3.38E-06 | 4.89E-05 | 3.04E-05 | 3.04E-05 | 1.50E-05 |
| 64 | 258412.6 | 4085302 | 4.46E-05 | 6.45E-04 | 4.76E-04 | 4.76E-04 | 2.65E-04 | 6.77E-06 | 9.83E-05 | 7.43E-05 | 7.43E-05 | 4.08E-05 | 3.68E-06 | 5.32E-05 | 3.30E-05 | 3.30E-05 | 1.64E-05 |
| 65 | 258563.7 | 4085090 | 6.16E-05 | 8.91E-04 | 6.57E-04 | 6.57E-04 | 3.66E-04 | 9.35E-06 | 1.36E-04 | 1.03E-04 | 1.03E-04 | 5.64E-05 | 5.08E-06 | 7.34E-05 | 4.56E-05 | 4.56E-05 | 2.26E-05 |
| 66 | 258562.9 | 4085065 | 7.01E-05 | 1.01E-03 | 7.47E-04 | 7.47E-04 | 4.17E-04 | 1.06E-05 | 1.54E-04 | 1.17E-04 | 1.17E-04 | 6.41E-05 | 5.78E-06 | 8.36E-05 | 5.19E-05 | 5.19E-05 | 2.57E-05 |
| 67 | 258562.2 | 4085040 | 7.97E-05 | 1.15E-03 | 8.49E-04 | 8.49E-04 | 4.73E-04 | 1.21E-05 | 1.76E-04 | 1.33E-04 | 1.33E-04 | 7.29E-05 | 6.57E-06 | 9.50E-05 | 5.90E-05 | 5.90E-05 | 2.92E-05 |
| 68 | 258561.5 | 4085015 | 8.99E-05 | 1.30E-03 | 9.59E-04 | 9.59E-04 | 5.34E-04 | 1.36E-05 | 1.98E-04 | 1.50E-04 | 1.50E-04 | 8.23E-05 | 7.41E-06 | 1.07E-04 | 6.66E-05 | 6.66E-05 | 3.30E-05 |
| 69 | 258560.8 | 4084990 | 1.00E-04 | 1.45E-03 | 1.07E-03 | 1.07E-03 | 5.96E-04 | 1.52E-05 | 2.21E-04 | 1.67E-04 | 1.67E-04 | 9.17E-05 | 8.26E-06 | 1.19E-04 | 7.42E-05 | 7.42E-05 | 3.67E-05 |
| 70 | 258560 | 4084966 | 1.10E-04 | 1.59E-03 | 1.17E-03 | 1.17E-03 | 6.53E-04 | 1.67E-05 | 2.42E-04 | 1.83E-04 | 1.83E-04 | 1.01E-04 | 9.05E-06 | 1.31E-04 | 8.13E-05 | 8.13E-05 | 4.03E-05 |
| 71 | 258559.3 | 4084941 | 1.18E-04 | 1.71E-03 | 1.26E-03 | 1.26E-03 | 7.01E-04 | 1.79E-05 | 2.60E-04 | 1.96E-04 | 1.96E-04 | 1.08E-04 | 9.73E-06 | 1.41E-04 | 8.74E-05 | 8.74E-05 | 4.33E-05 |
| 72 | 258558.6 | 4084916 | 1.24E-04 | 1.80E-03 | 1.32E-03 | 1.32E-03 | 7.38E-04 | 1.88E-05 | 2.73E-04 | 2.07E-04 | 2.07E-04 | 1.14E-04 | 1.02E-05 | 1.48E-04 | 9.19E-05 | 9.19E-05 | 4.55E-05 |
| 73 | 258606 | 4085135 | 4.05E-05 | 5.85E-04 | 4.31E-04 | 4.31E-04 | 2.40E-04 | 6.14E-06 | 8.91E-05 | 6.73E-05 | 6.73E-05 | 3.70E-05 | 3.33E-06 | 4.82E-05 | 3.00E-05 | 3.00E-05 | 1.48E-05 |
| 74 | 258597.7 | 4085157 | 3.83E-05 | 5.54E-04 | 4.08E-04 | 4.08E-04 | 2.28E-04 | 5.81E-06 | 8.44E-05 | 6.38E-05 | 6.38E-05 | 3.51E-05 | 3.16E-06 | 4.57E-05 | 2.84E-05 | 2.84E-05 | 1.40E-05 |
| 75 | 258589.3 | 4085179 | 3.62E-05 | 5.24E-04 | 3.86E-04 | 3.86E-04 | 2.15E-04 | 5.49E-06 | 7.98E-05 | 6.03E-05 | 6.03E-05 | 3.31E-05 | 2.98E-06 | 4.32E-05 | 2.68E-05 | 2.68E-05 | 1.33E-05 |
| 76 | 258581 | 4085202 | 3.42E-05 | 4.94E-04 | 3.64E-04 | 3.64E-04 | 2.03E-04 | 5.18E-06 | 7.53E-05 | 5.69E-05 | 5.69E-05 | 3.13E-05 | 2.82E-06 | 4.07E-05 | 2.53E-05 | 2.53E-05 | 1.25E-05 |
| 77 | 258572.6 | 4085224 | 3.22E-05 | 4.66E-04 | 3.44E-04 | 3.44E-04 | 1.92E-04 | 4.89E-06 | 7.10E-05 | 5.37E-05 | 5.37E-05 | 2.95E-05 | 2.66E-06 | 3.84E-05 | 2.39E-05 | 2.39E-05 | 1.18E-05 |
| 78 | 258564.3 | 4085246 | 3.05E-05 | 4.40E-04 | 3.25E-04 | 3.25E-04 | 1.81E-04 | 4.62E-06 | 6.71E-05 | 5.07E-05 | 5.07E-05 | 2.79E-05 | 2.51E-06 | 3.63E-05 | 2.26E-05 | 2.26E-05 | 1.12E-05 |
| 79 | 258556 | 4085268 | 2.88E-05 | 4.17E-04 | 3.07E-04 | 3.07E-04 | 1.71E-04 | 4.38E-06 | 6.35E-05 | 4.80E-05 | 4.80E-05 | 2.64E-05 | 2.38E-06 | 3.44E-05 | 2.13E-05 | 2.13E-05 | 1.06E-05 |
| 80 | 258526.1 | 4085300 | 2.85E-05 | 4.12E-04 | 3.04E-04 | 3.04E-04 | 1.69E-04 | 4.33E-06 | 6.28E-05 | 4.75E-05 | 4.75E-05 | 2.61E-05 | 2.35E-06 | 3.40E-05 | 2.11E-05 | 2.11E-05 | 1.05E-05 |
| 81 | 258504.6 | 4085310 | 2.98E-05 | 4.31E-04 | 3.18E-04 | 3.18E-04 | 1.77E-04 | 4.52E-06 | 6.56E-05 | 4.96E-05 | 4.96E-05 | 2.73E-05 | 2.46E-06 | 3.55E-05 | 2.21E-05 | 2.21E-05 | 1.09E-05 |
| 82 | 258483.1 | 4085320 | 3.11E-05 | 4.50E-04 | 3.32E-04 | 3.32E-04 | 1.85E-04 | 4.73E-06 | 6.86E-05 | 5.18E-05 | 5.18E-05 | 2.85E-05 | 2.57E-06 | 3.71E-05 | 2.31E-05 | 2.31E-05 | 1.14E-05 |
| 83 | 258461.6 | 4085330 | 3.25E-05 | 4.70E-04 | 3.46E-04 | 3.46E-04 | 1.93E-04 | 4.93E-06 | 7.16E-05 | 5.41E-05 | 5.41E-05 | 2.97E-05 | 2.68E-06 | 3.87E-05 | 2.41E-05 | 2.41E-05 | 1.19E-05 |
| 84 | 258440.1 | 4085340 | 3.38E-05 | 4.89E-04 | 3.60E-04 | 3.60E-04 | 2.01E-04 | 5.13E-06 | 7.45E-05 | 5.63E-05 | 5.63E-05 | 3.09E-05 | 2.79E-06 | 4.03E-05 | 2.50E-05 | 2.50E-05 | 1.24E-05 |
| 85 | 258418.5 | 4085350 | 3.51E-05 | 5.08E-04 | 3.74E-04 | 3.74E-04 | 2.09E-04 | 5.33E-06 | 7.74E-05 | 5.84E-05 | 5.84E-05 | 3.21E-05 | 2.89E-06 | 4.19E-05 | 2.60E-05 | 2.60E-05 | 1.29E-05 |
| 86 | 258397 | 4085360 | 3.65E-05 | 5.28E-04 | 3.89E-04 | 3.89E-04 | 2.17E-04 | 5.54E-06 | 8.04E-05 | 6.07E-05 | 6.07E-05 | 3.34E-05 | 3.01E-06 | 4.35E-05 | 2.70E-05 | 2.70E-05 | 1.34E-05 |
| 87 | 258614.4 | 4085113 | 4.26E-05 | 6.16E-04 | 4.54E-04 | 4.54E-04 | 2.53E-04 | 6.47E-06 | 9.39E-05 | 7.09E-05 | 7.09E-05 | 3.90E-05 | 3.51E-06 | 5.08E-05 | 3.15E-05 | 3.15E-05 | 1.56E-05 |
| 88 | 258613.6 | 4085088 | 4.73E-05 | 6.84E-04 | 5.04E-04 | 5.04E-04 | 2.81E-04 | 7.18E-06 | 1.04E-04 | 7.87E-05 | 7.87E-05 | 4.33E-05 | 3.90E-06 | 5.64E-05 | 3.50E-05 | 3.50E-05 | 1.73E-05 |
| 89 | 258612.9 | 4085063 | 5.27E-05 | 7.62E-04 | 5.61E-04 | 5.61E-04 | 3.13E-04 | 7.99E-06 | 1.16E-04 | 8.76E-05 | 8.76E-05 | 4.82E-05 | 4.34E-06 | 6.28E-05 | 3.90E-05 | 3.90E-05 | 1.93E-05 |
| 90 | 258612.2 | 4085039 | 5.87E-05 | 8.48E-04 | 6.25E-04 | 6.25E-04 | 3.49E-04 | 8.90E-06 | 1.29E-04 | 9.76E-05 | 9.76E-05 | 5.37E-05 | 4.83E-06 | 6.99E-05 | 4.34E-05 | 4.34E-05 | 2.15E-05 |
| 91 | 258611.5 | 4085014 | 6.52E-05 | 9.43E-04 | 6.95E-04 | 6.95E-04 | 3.87E-04 | 9.89E-06 | 1.44E-04 | 1.08E-04 | 1.08E-04 | 5.96E-05 | 5.37E-06 | 7.77E-05 | 4.83E-05 | 4.83E-05 | 2.39E-05 |
| 92 | 258610.7 | 4084989 | 7.20E-05 | 1.04E-03 | 7.67E-04 | 7.67E-04 | 4.28E-04 | 1.09E-05 | 1.59E-04 | 1.20E-04 | 1.20E-04 | 6.59E-05 | 5.93E-06 | 8.58E-05 | 5.33E-05 | 5.33E-05 | 2.64E-05 |
| 93 | 258610 | 4084964 | 7.87E-05 | 1.14E-03 | 8.39E-04 | 8.39E-04 | 4.68E-04 | 1.19E-05 | 1.73E-04 | 1.31E-04 | 1.31E-04 | 7.20E-05 | 6.49E-06 | 9.38E-05 | 5.83E-05 | 5.83E-05 | 2.89E-05 |
| 94 | 258609.3 | 4084940 | 8.50E-05 | 1.23E-03 | 9.07E-04 | 9.07E-04 | 5.05E-04 | 1.29E-05 | 1.87E-04 | 1.42E-04 | 1.42E-04 | 7.78E-05 | 7.01E-06 | 1.01E-04 | 6.30E-05 | 6.30E-05 | 3.12E-05 |
| 95 | 258608.6 | 4084915 | 9.05E-05 | 1.31E-03 | 9.64E-04 | 9.64E-04 | 5.38E-04 | 1.37E-05 | 1.99E-04 | 1.51E-04 | 1.51E-04 | 8.28E-05 | 7.46E-06 | 1.08E-04 | 6.70E-05 | 6.70E-05 | 3.32E-05 |
| 96 | 258656.3 | 4085133 | 3.31E-05 | 4.78E-04 | 3.52E-04 | 3.52E-04 | 1.96E-04 | 5.02E-06 | 7.28E-05 | 5.50E-05 | 5.50E-05 | 3.02E-05 | 2.72E-06 | 3.94E-05 | 2.45E-05 | 2.45E-05 | 1.21E-05 |
| 97 | 258648.3 | 4085154 | 3.17E-05 | 4.58E-04 | 3.37E-04 | 3.37E-04 | 1.88E-04 | 4.80E-06 | 6.97E-05 | 5.27E-05 | 5.27E-05 | 2.90E-05 | 2.61E-06 | 3.77E-05 | 2.34E-05 | 2.34E-05 | 1.16E-05 |
| 98 | 258640.3 | 4085175 | 3.02E-05 | 4.37E-04 | 3.22E-04 | 3.22E-04 | 1.80E-04 | 4.59E-06 | 6.66E-05 | 5.03E-05 | 5.03E-05 | 2.77E-05 | 2.49E-06 | 3.60E-05 | 2.24E-05 | 2.24E-05 | 1.11E-05 |
| 99 | 258632.3 | 4085197 | 2.88E-05 | 4.17E-04 | 3.07E-04 | 3.07E-04 | 1.71E-04 | 4.37E-06 | 6.35E-05 | 4.80E-05 | 4.80E-05 | 2.64E-05 | 2.38E-06 | 3.44E-05 | 2.13E-05 | 2.13E-05 | 1.06E-05 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2947 | 256423.9 | 4083997 | 1.50E-10 | 2.17E-09 | 3.84E-08 | 3.84E-08 | 2.14E-08 | 1.00E-07 | 2.28E-11 | 3.31E-10 | 5.99E-09 | 3.99E-09 | 3.29E-09 | 1.56E-08 | 1.24E-11 | 1.79E-10 | 2.67E-09 | 2.67E-09 | 1.32E-09 | 6.84E-09 |
| 2948 | 236415.9 | 4085973 | 1.49E-10 | 2.16E-09 | 3.81E-08 | 3.81E-08 | 2.12E-08 | 9.97E-08 | 2.26E-11 | 3.28E-10 | 5.95E-09 | 3.95E-09 | 3.27E-09 | 1.53E-08 | 1.23E-11 | 1.76E-10 | 2.65E-09 | 2.65E-09 | 1.31E-09 | 6.79E-09 |
| 2949 | 256405.8 | 4085953 | 1.47E-10 | 2.13E-09 | 3.76E-08 | 3.78E-08 | 2.10E-08 | 9.86E-08 | 2.24E-11 | 3.23E-10 | 5.88E-09 | 3.88E-09 | 3.23E-09 | 1.53E-08 | 1.21E-11 | 1.76E-10 | 2.62E-09 | 2.62E-09 | 1.29E-09 | 6.71E-09 |
| 2950 | 256395.8 | 4085931 | 1.43E-10 | 2.10E-09 | 3.71E-08 | 3.71E-08 | 2.07E-08 | 9.70E-08 | 2.20E-11 | 3.20E-10 | 5.79E-09 | 3.79E-09 | 3.18E-09 | 1.51E-08 | 1.20E-11 | 1.73E-10 | 2.58E-09 | 2.58E-09 | 1.27E-09 | 6.61E-09 |
| 2951 | 256385.7 | 4085909 | 1.42E-10 | 2.06E-09 | 3.64E-08 | 3.64E-08 | 2.03E-08 | 9.52E-08 | 2.16E-11 | 3.14E-10 | 5.68E-09 | 3.68E-09 | 3.12E-09 | 1.48E-08 | 1.17E-11 | 1.70E-10 | 2.53E-09 | 2.53E-09 | 1.25E-09 | 6.48E-09 |
| 2992 | 236375.7 | 4085888 | 1.39E-10 | 2.01E-09 | 3.55E-08 | 3.53E-08 | 1.98E-08 | 9.31E-08 | 2.11E-11 | 3.07E-10 | 5.55E-09 | 5.55E-09 | 3.05E-09 | 1.45E-08 | 1.15E-11 | 1.66E-10 | 2.47E-09 | 2.47E-09 | 1.22E-09 | 6.34E-09 |
| 2953 | 256365.8 | 4085866 | 1.36E-10 | 1.96E-09 | 3.46E-08 | 3.48E-08 | 1.93E-08 | 9.06E-08 | 2.06E-11 | 2.99E-10 | 5.40E-09 | 3.40E-09 | 2.97E-09 | 1.41E-08 | 1.12E-11 | 1.62E-10 | 2.40E-09 | 2.40E-09 | 1.19E-09 | 6.17E-09 |
| 2954 | 256353.8 | 4085844 | 1.31E-10 | 1.90E-09 | 3.35E-08 | 3.35E-08 | 1.87E-08 | 8.77E-08 | 1.99E-11 | 2.89E-10 | 5.23E-09 | 5.23E-09 | 2.87E-09 | 1.36E-08 | 1.08E-11 | 1.56E-10 | 2.33E-09 | 2.33E-09 | 1.15E-09 | 5.97E-09 |
| 2955 | 256345.5 | 4085822 | 1.26E-10 | 1.83E-09 | 3.23E-08 | 3.23E-08 | 1.80E-08 | 8.44E-08 | 1.92E-11 | 2.78E-10 | 5.04E-09 | 5.04E-09 | 2.77E-09 | 1.31E-08 | 1.04E-11 | 1.51E-10 | 2.24E-09 | 2.24E-09 | 1.11E-09 | 5.75E-09 |
| 2956 | 256335.5 | 4085800 | 1.21E-10 | 1.75E-09 | 3.09E-08 | 3.09E-08 | 1.72E-08 | 8.10E-08 | 1.64E-11 | 2.67E-10 | 4.83E-09 | 4.83E-09 | 2.65E-09 | 1.26E-08 | 9.98E-12 | 1.44E-10 | 2.15E-09 | 2.13E-09 | 1.06E-09 | 5.51E-09 |
| 2957 | 236325.4 | 4085778 | 1.16E-10 | 1.67E-09 | 2.95E-08 | 2.93E-08 | 1.65E-08 | 7.73E-08 | 1.75E-11 | 2.35E-10 | 4.61E-09 | 4.61E-08 | 2.54E-09 | 1.20E-08 | 9.53E-12 | 1.38E-10 | 2.05E-09 | 2.05E-09 | 1.02E-09 | 5.27E-09 |
| 2958 | 256315.4 | 4085757 | 1.10E-10 | 1.59E-09 | 2.81E-08 | 2.81E-08 | 1.57E-08 | 7.35E-08 | 1.67E-11 | 2.42E-10 | 4.39E-09 | 4.39E-09 | 2.41E-09 | 1.14E-08 | 9.06E-12 | 1.31E-10 | 1.95E-09 | 1.95E-09 | 9.66E-10 | 5.01E-09 |
| 2959 | 256305.3 | 4085733 | 1.04E-10 | 1.51E-09 | 2.66E-08 | 2.66E-08 | 1.48E-08 | 6.97E-08 | 1.58E-11 | 2.30E-10 | 4.16E-09 | 4.16E-09 | 2.29E-09 | 1.08E-08 | 6.59E-12 | 1.24E-10 | 1.85E-09 | 1.85E-09 | 9.16E-10 | 4.75E-09 |
| 2960 | 256295.3 | 4085713 | 9.86E-11 | 1.43E-09 | 2.52E-08 | 2.52E-08 | 1.40E-08 | 6.60E-08 | 1.50E-11 | 2.17E-10 | 3.93E-09 | 3.93E-09 | 2.16E-09 | 1.03E-08 | 6.13E-12 | 1.18E-10 | 1.75E-09 | 1.73E-09 | 8.66E-10 | 4.49E-09 |
| 2961 | 236285.2 | 4085691 | 9.32E-11 | 1.35E-09 | 2.38E-08 | 2.38E-08 | 1.33E-08 | 6.23E-08 | 1.42E-11 | 2.05E-10 | 3.72E-09 | 3.72E-09 | 2.04E-09 | 9.70E-09 | 7.69E-12 | 1.11E-10 | 1.85E-09 | 1.65E-09 | 8.19E-10 | 4.25E-09 |
| 2962 | 256275.2 | 4085669 | 8.80E-11 | 1.27E-09 | 2.23E-08 | 2.23E-08 | 1.23E-08 | 5.88E-08 | 1.34E-11 | 1.94E-10 | 3.51E-09 | 3.51E-09 | 1.93E-09 | 9.13E-09 | 7.23E-12 | 1.05E-10 | 1.56E-09 | 1.56E-09 | 7.73E-10 | 4.01E-09 |
| 2963 | 256265.1 | 4085648 | 8.32E-11 | 1.20E-09 | 2.12E-08 | 2.12E-08 | 1.18E-08 | 3.56E-08 | 1.26E-11 | 1.83E-10 | 3.32E-09 | 3.32E-09 | 1.82E-09 | 8.63E-09 | 6.86E-12 | 9.92E-11 | 1.48E-09 | 1.48E-09 | 7.31E-10 | 3.79E-09 |
| 2964 | 256255.1 | 4085626 | 7.88E-11 | 1.14E-09 | 2.01E-08 | 2.01E-08 | 1.12E-08 | 5.27E-08 | 1.20E-11 | 1.74E-10 | 3.14E-09 | 3.14E-09 | 1.73E-09 | 8.20E-09 | 6.50E-12 | 9.40E-11 | 1.40E-09 | 1.40E-09 | 6.92E-10 | 3.59E-09 |
| 2965 | 256245.1 | 4085604 | 7.50E-11 | 1.08E-09 | 1.91E-08 | 1.91E-08 | 1.07E-08 | 5.01E-08 | 1.14E-11 | 1.63E-10 | 2.99E-09 | 2.99E-09 | 1.64E-09 | 7.80E-09 | 6.18E-12 | 8.94E-11 | 1.33E-09 | 1.33E-09 | 6.58E-10 | 3.41E-09 |
| 2966 | 256235 | 4085562 | 7.16E-11 | 1.04E-09 | 1.83E-08 | 1.83E-08 | 1.02E-08 | 4.79E-08 | 1.09E-11 | 1.58E-10 | 2.85E-09 | 2.85E-09 | 1.57E-09 | 7.45E-09 | 3.90E-12 | 8.53E-11 | 1.27E-09 | 1.27E-09 | 6.29E-10 | 3.26E-09 |
| 2967 | 256225 | 4085560 | 6.88E-11 | 9.54E-10 | 1.76E-08 | 1.76E-08 | 9.79E-09 | 4.60E-08 | 1.04E-11 | 1.52E-10 | 2.74E-09 | 2.74E-09 | 1.31E-09 | 7.15E-09 | 3.67E-12 | 8.20E-11 | 1.22E-09 | 1.22E-09 | 6.04E-10 | 3.13E-09 |
| 2968 | 256214.9 | 4085338 | 6.64E-11 | 9.60E-10 | 1.70E-08 | 1.70E-08 | 9.45E-09 | 4.44E-08 | 1.01E-11 | 1.46E-10 | 2.65E-09 | 2.65E-09 | 1.46E-09 | 6.91E-09 | 3.47E-12 | 7.91E-11 | 1.18E-09 | 1.18E-09 | 5.83E-10 | 3.02E-09 |
| 2969 | 256204.9 | 4085517 | 6.44E-11 | 9.31E-10 | 1.64E-08 | 1.64E-08 | 9.17E-09 | 4.31E-08 | 9.77E-12 | 1.42E-10 | 2.57E-09 | 2.37E-09 | 1.41E-09 | 6.70E-09 | 5.31E-12 | 7.68E-11 | 1.14E-09 | 1.14E-09 | 3.66E-10 | 2.93E-09 |
| 2970 | 256194.8 | 4085495 | 6.27E-11 | 9.07E-10 | 1.60E-08 | 1.60E-08 | 6.93E-09 | 4.19E-08 | 9.52E-12 | 1.38E-10 | 2.50E-09 | 2.50E-09 | 1.38E-09 | 6.53E-09 | 5.17E-12 | 7.48E-11 | 1.11E-09 | 1.11E-09 | 3.51E-10 | 2.86E-09 |
| 2971 | 256164.8 | 4085473 | 8.13E-11 | 8.87E-10 | 1.57E-08 | 1.57E-08 | 6.73E-09 | 4.10E-08 | 9.31E-12 | 1.35E-10 | 2.45E-09 | 2.45E-09 | 1.34E-09 | 6.38E-09 | 5.05E-12 | 7.31E-11 | 1.09E-09 | 1.09E-09 | 5.39E-10 | 2.79E-09 |
| 2972 | 256174.7 | 4085451 | 6.01E-11 | 8.69E-10 | 1.53E-08 | 1.53E-08 | 6.55E-09 | 4.02E-08 | 9.11E-12 | 1.32E-10 | 2.39E-09 | 2.39E-09 | 1.32E-09 | 6.25E-09 | 4.95E-12 | 7.18E-11 | 1.07E-09 | 1.07E-09 | 5.27E-10 | 2.73E-09 |
| 2973 | 256164.7 | 4085429 | 5.89E-11 | 6.52E-10 | 1.50E-08 | 1.50E-08 | 8.39E-09 | 3.94E-08 | 8.96E-12 | 1.30E-10 | 2.35E-09 | 2.35E-09 | 1.29E-09 | 6.13E-09 | 4.86E-12 | 7.02E-11 | 1.05E-09 | 1.05E-09 | 3.17E-10 | 2.68E-09 |
| 2974 | 256154.6 | 4085408 | 3.78E-11 | 6.36E-10 | 1.48E-08 | 1.48E-08 | 8.23E-09 | 3.87E-08 | 6.77E-12 | 1.27E-10 | 2.31E-09 | 2.31E-09 | 1.27E-09 | 6.01E-09 | 4.76E-12 | 6.89E-11 | 1.03E-09 | 1.03E-09 | 5.08E-10 | 2.63E-09 |
| 2975 | 256144.6 | 4085386 | 3.67E-11 | 8.20E-10 | 1.45E-08 | 1.45E-08 | 8.07E-09 | 3.79E-08 | 6.60E-12 | 1.25E-10 | 2.26E-09 | 2.26E-09 | 1.24E-09 | 3.90E-09 | 4.67E-12 | 6.76E-11 | 1.01E-09 | 1.01E-09 | 4.98E-10 | 2.58E-09 |
| 2976 | 256134.5 | 4085364 | 5.36E-11 | 8.04E-10 | 1.42E-08 | 1.42E-08 | 7.91E-09 | 3.72E-08 | 8.44E-12 | 1.21E-10 | 2.22E-09 | 2.22E-09 | 1.22E-09 | 5.78E-09 | 4.58E-12 | 6.63E-11 | 9.86E-10 | 9.86E-10 | 4.88E-10 | 2.53E-09 |
| 2977 | 256124.5 | 4085342 | 5.45E-11 | 7.88E-10 | 1.39E-08 | 1.39E-08 | 7.76E-09 | 3.64E-08 | 8.27E-12 | 1.20E-10 | 2.17E-09 | 2.17E-09 | 1.19E-09 | 3.67E-09 | 4.49E-12 | 6.49E-11 | 9.66E-10 | 9.66E-10 | 4.78E-10 | 2.48E-09 |
| 2978 | 256114.4 | 4085320 | 3.34E-11 | 7.72E-10 | 1.36E-08 | 1.36E-08 | 7.60E-09 | 3.57E-08 | 8.10E-12 | 1.18E-10 | 2.13E-09 | 2.13E-09 | 1.17E-09 | 3.55E-09 | 4.40E-12 | 6.36E-11 | 9.47E-10 | 9.47E-10 | 4.69E-10 | 2.43E-09 |
| 2979 | 256104.4 | 4085298 | 5.23E-11 | 7.57E-10 | 1.34E-08 | 1.34E-08 | 7.45E-09 | 3.50E-08 | 7.94E-12 | 1.15E-10 | 2.09E-09 | 2.09E-09 | 1.15E-09 | 5.44E-09 | 4.31E-12 | 6.24E-11 | 9.28E-10 | 9.28E-10 | 4.60E-10 | 2.38E-09 |
| 2980 | 256094.3 | 4085277 | 5.14E-11 | 7.43E-10 | 1.31E-08 | 1.31E-08 | 7.31E-09 | 3.43E-08 | 7.80E-12 | 1.13E-10 | 2.05E-09 | 2.05E-09 | 1.13E-09 | 5.34E-09 | 4.23E-12 | 6.12E-11 | 9.11E-10 | 9.11E-10 | 4.51E-10 | 2.34E-09 |
| 2981 | 256084.3 | 4085255 | 5.04E-11 | 7.30E-10 | 1.29E-08 | 1.29E-08 | 7.18E-09 | 3.37E-09 | 7.66E-12 | 1.11E-10 | 2.01E-09 | 2.01E-09 | 1.11E-09 | 5.25E-09 | 4.16E-12 | 6.01E-11 | 8.95E-10 | 8.95E-10 | 4.43E-10 | 2.30E-09 |
| 2982 | 256074.2 | 4085233 | 4.97E-11 | 7.18E-10 | 1.27E-08 | 1.27E-08 | 7.07E-09 | 3.32E-06 | 7.54E-12 | 1.09E-10 | 1.98E-09 | 1.98E-09 | 1.09E-09 | 5.17E-09 | 4.09E-12 | 5.92E-11 | 8.81E-10 | 8.81E-10 | 4.36E-10 | 2.26E-09 |
| 2983 | 257629.5 | 4086654 | 9.22E-11 | 1.33E-09 | 2.35E-08 | 2.35E-08 | 1.31E-08 | 6.16E-08 | 1.40E-11 | 2.03E-10 | 3.66E-09 | 3.68E-09 | 2.02E-09 | 9.59E-09 | 7.60E-12 | 1.10E-10 | 1.64E-09 | 1.64E-09 | 8.10E-10 | 4.20E-09 |
| 2984 | 257653.8 | 4086653 | 9.13E-11 | 1.32E-09 | 2.33E-08 | 2.33E-08 | 1.30E-08 | 6.11E-08 | 1.39E-11 | 2.01E-10 | 3.64E-09 | 3.64E-09 | 2.00E-09 | 9.50E-09 | 7.53E-12 | 1.09E-10 | 1.62E-09 | 1.62E-09 | 8.02E-10 | 4.18E-09 |
| 2985 | 257676.1 | 4086632 | 9.05E-11 | 1.31E-09 | 2.31E-08 | 2.31E-08 | 1.29E-08 | 6.05E-08 | 1.37E-11 | 1.99E-10 | 3.61E-09 | 3.61E-09 | 1.98E-09 | 9.42E-09 | 7.46E-12 | 1.08E-10 | 1.61E-09 | 1.61E-09 | 7.93E-10 | 4.12E-09 |
| 2986 | 237702.4 | 4086651 | 8.97E-11 | 1.30E-09 | 2.29E-08 | 2.29E-08 | 1.28E-08 | 6.00E-08 | 1.36E-11 | 1.98E-10 | 3.58E-09 | 3.58E-09 | 1.97E-09 | 9.34E-09 | 7.40E-12 | 1.07E-10 | 1.59E-09 | 1.39E-09 | 7.88E-10 | 4.09E-09 |
| 2987 | 257726.7 | 4086650 | 6.90E-11 | 1.29E-09 | 2.27E-08 | 2.27E-08 | 1.27E-08 | 5.95E-08 | 1.35E-11 | 1.96E-10 | 3.55E-09 | 3.53E-09 | 1.95E-09 | 9.26E-09 | 7.34E-12 | 1.06E-10 | 1.58E-09 | 1.58E-09 | 7.82E-10 | 4.05E-09 |
| 2988 | 257750.9 | 4086649 | 6.83E-11 | 1.28E-09 | 2.25E-08 | 2.25E-08 | 1.26E-08 | 5.90E-08 | 1.34E-11 | 1.94E-10 | 3.32E-09 | 3.52E-09 | 1.54E-09 | 9.18E-09 | 7.28E-12 | 1.05E-10 | 1.57E-09 | 1.57E-09 | 7.75E-10 | 4.02E-09 |
| 2989 | 257773.2 | 4086648 | 6.75E-11 | 1.27E-09 | 2.23E-08 | 2.23E-08 | 1.25E-08 | 5.85E-08 | 1.33E-11 | 1.93E-10 | 3.49E-09 | 3.49E-09 | 1.92E-09 | 9.10E-09 | 7.21E-12 | 1.04E-10 | 1.55E-09 | 1.33E-09 | 7.68E-10 | 3.98E-09 |
| 2990 | 257799.5 | 4086647 | 8.67E-11 | 1.25E-09 | 2.21E-08 | 2.21E-08 | 1.23E-08 | 5.80E-08 | 1.32E-11 | 1.91E-10 | 3.46E-09 | 3.46E-09 | 1.90E-09 | 9.02E-09 | 7.15E-12 | 1.03E-10 | 1.54E-09 | 1.54E-09 | 7.61E-10 | 3.95E-09 |
| 2991 | 257823.8 | 4086646 | 8.59E-11 | 1.24E-09 | 2.19E-08 | 2.19E-08 | 1.32E-08 | 5.74E-08 | 1.30E-11 | 1.89E-10 | 3.42E-09 | 3.42E-09 | 1.88E-09 | 8.93E-09 | 7.08E-12 | 1.02E-10 | 1.52E-09 | 1.52E-09 | 7.54E-10 | 3.91E-08 |
| 2992 | 257848.1 | 4086644 | 8.49E-11 | 1.23E-09 | 2.17E-08 | 2.17E-08 | 1.21E-08 | 5.68E-08 | 1.29E-11 | 1.87E-10 | 3.39E-09 | 3.39E-09 | 1.86E-09 | 8.84E-09 | 7.00E-12 | 1.01E-10 | 1.51E-09 | 1.51E-09 | 7.46E-10 | 3.87E-09 |
| 2993 | 257872.4 | 4086643 | 8.39E-11 | 1.21E-09 | 2.14E-08 | 2.14E-08 | 1.19E-08 | 3.81E-08 | 1.27E-11 | 1.85E-10 | 3.35E-09 | 3.35E-09 | 1.84E-09 | 8.73E-09 | 6.92E-12 | 1.00E-10 | 1.49E-09 | 1.49E-09 | 7.37E-10 | 3.82E-09 |
| 2994 | 257896.6 | 4086642 | 8.28E-11 | 1.20E-09 | 2.12E-08 | 2.12E-08 | 1.18E-08 | 5.54E-08 | 1.26E-11 | 1.82E-10 | 3.30E-09 | 3.30E-09 | 1.82E-09 | 8.62E-09 | 6.83E-12 | 9.87E-11 | 1.47E-09 | 1.47E-09 | 7.27E-10 | 3.77E-09 |
| 2995 | 257920.9 | 4086641 | 8.16E-11 | 1.18E-09 | 2.08E-08 | 2.08E-08 | 1.16E-08 | 3.46E-08 | 1.24E-11 | 1.80E-10 | 3.25E-09 | 3.25E-09 | 1.79E-09 | 8.49E-09 | 6.73E-12 | 9.73E-11 | 1.45E-09 | 1.43E-09 | 7.17E-10 | 3.72E-09 |
| 2996 | 257945.2 | 4086640 | 8.03E-11 | 1.16E-09 | 2.05E-08 | 2.05E-08 | 1.14E-08 | 5.37E-08 | 1.22E-11 | 1.77E-10 | 3.20E-09 | 3.20E-09 | 1.76E-09 | 8.36E-09 | 6.62E-12 | 9.58E-11 | 1.43E-09 | 1.43E-09 | 7.05E-10 | 3.66E-09 |
| 2997 | 257969.5 | 4086639 | 7.89E-11 | 1.14E-08 | 2.02E-08 | 2.02E-08 | 1.12E-08 | 3.28E-08 | 1.20E-11 | 1.74E-10 | 3.15E-09 | 3.15E-09 | 1.73E-09 | 8.21E-09 | 6.51E-12 | 9.41E-11 | 1.40E-09 | 1.40E-09 | 6.93E-10 | 3.60E-09 |
| 2998 | 257993.8 | 4086638 | 7.75E-11 | 1.12E-09 | 1.98E-08 | 1.98E-08 | 1.10E-08 | 3.18E-08 | 1.18E-11 | 1.71E-10 | 3.09E-09 | 3.09E-09 | 1.70E-09 | 6.06E-09 | 6.39E-12 | 9.24E-11 | 1.37E-09 | 1.37E-09 | 6.81E-10 | 3.53E-09 |
| 2999 | 258018 | 4086637 | 7.60E-11 | 1.10E-09 | 1.94E-08 | 1.94E-08 | 1.08E-08 | 3.08E-08 | 1.15E-11 | 1.67E-10 | 3.03E-09 | 3.03E-09 | 1.67E-09 | 7.90E-09 | 6.26E-12 | 9.06E-11 | 1.35E-09 | 1.35E-09 | 6.67E-10 | 3.46E-09 |
| 3000 | 258042.3 | 4086636 | 7.44E-11 | 1.08E-09 | 1.90E-08 | 1.90E-08 | 1.06E-08 | 4.97E-08 | 1.13E-11 | 1.64E-10 | 2.97E-09 | 2.97E-09 | 1.63E-09 | 7.74E-09 | 6.13E-12 | 8.87E-11 | 1.32E-09 | 1.32E-09 | 6.53E-10 | 3.39E-09 |
| 3001 | 258066.6 | 4086633 | 7.28E-11 | 1.05E-09 | 1.86E-08 | 1.86E-08 | 1.04E-08 | 4.87E-08 | 1.11E-11 | 1.60E-10 | 2.90E-09 | 2.90E-09 | 1.60E-09 | 7.58E-09 | 6.00E-12 | 8.68E-11 | 1.29E-09 | 1.29E-09 | 6.40E-10 | 3.32E-09 |
| 3002 | 258090.9 | 4086634 | 7.13E-11 | 1.03E-09 | 1.82E-08 | 1.82E-08 | 1.02E-08 | 4.77E-08 | 1.06E-11 | 1.57E-10 | 2.84E-09 | 2.84E-09 | 1.56E-09 | 7.42E-09 | 3.88E-12 | 8.50E-11 | 1.27E-09 | 1.27E-09 | 6.26E-10 | 3.25E-09 |
| 3003 | 258115.2 | 4086633 | 6.98E-11 | 1.01E-09 | 1.78E-08 | 1.78E-08 | 9.94E-09 | 4.67E-08 | 1.06E-11 | 1.54E-10 | 2.78E-09 | 2.78E-09 | 1.53E-09 | 7.26E-09 | 5.75E-12 | 8.32E-11 | 1.24E-09 | 1.24E-09 | 6.13E-10 | 3.18E-09 |
| 3004 | 258139.5 | 4086632 | 6.84E-11 | 9.89E-10 | 1.75E-08 | 1.75E-08 | 9.73E-09 | 4.57E-08 | 1.04E-11 | 1.51E-10 | 2.73E-09 | 2.73E-09 | 1.50E-09 | 7.11E-09 | 3.63E-12 | 8.13E-11 | 1.21E-09 | 1.21E-09 | 6.00E-10 | 3.11E-09 |
| 3005 | 258163.7 | 4086630 | 6.70E-11 | 9.70E-10 | 1.71E-08 | 1.71E-08 | 9.55E-09 | 4.48E-08 | 1.02E-11 | 1.48E-10 | 2.67E-09 | 2.67E-09 | 1.47E-09 | 6.97E-09 | 3.53E-12 | 7.99E-11 | 1.19E-09 | 1.19E-09 | 3.89E-10 | 3.05E-09 |
| 3006 | 258188 | 4086629 | 6.58E-11 | 9.52E-10 | 1.68E-08 | 1.68E-08 | 9.37E-09 | 4.40E-08 | 9.99E-12 | 1.45E-10 | 2.62E-09 | 2.62E-09 | 1.44E-09 | 6.85E-09 | 3.43E-12 | 7.85E-11 | 1.17E-09 | 1.17E-09 | 3.78E-10 | 3.00E-09 |
| 3007 | 258212.3 | 4086628 | 6.47E-11 | 9.36E-10 | 1.65E-08 | 1.65E-08 | 9.21E-09 | 4.33E-08 | 9.82E-12 | 1.43E-10 | 2.58E-09 | 2.58E-09 | 1.42E-09 | 6.73E-09 | 5.33E-12 | 7.71E-11 | 1.15E-09 | 1.15E-09 | 3.68E-10 | 2.95E-09 |
| 3008 | 258236.6 | 4086627 | 6.36E-11 | 9.20E-10 | 1.63E-08 | 1.63E-08 | 9.06E-09 | 4.23E-08 | 9.66E-12 | 1.40E-10 | 2.54E-09 | 2.54E-09 | 1.39E-09 | 6.62E-09 | 3.24E-12 | 7.59E-11 | 1.13E-09 | 1.13E-09 | 3.59E-10 | 2.90E-09 |
| 3009 | 258260.9 | 4086626 | 6.26E-11 | 9.06E-10 | 1.60E-08 | 1.60E-08 | 6.92E-09 | 4.19E-08 | 9.50E-12 | 1.38E-10 | 2.50E-09 | 2.30E-09 | 1.37E-09 | 6.51E-09 | 3.16E-12 | 7.47E-11 | 1.11E-09 | 1.11E-09 | 5.50E-10 | 2.85E-09 |
| 3010 | 258285.1 | 4086625 | 6.17E-11 | 8.92E-10 | 1.58E-08 | 1.58E-08 | 6.78E-09 | 4.17E-08 | 9.36E-12 | 1.36E-10 | 2.46E-09 | 2.46E-09 | 1.35E-09 | 6.42E-09 | 3.08E-12 | 7.35E-11 | 1.09E-09 | 1.09E-09 | 5.42E-10 | 2.81E-09 |
| 3011 | 258309.4 | 4086624 | 6.07E-11 | 8.79E-10 | 1.33E-08 | 1.55E-08 | 8.65E-09 | 4.06E-08 | 9.22E-12 | 1.34E-10 | 2.42E-09 | 2.42E-09 | 1.33E-09 | 6.32E-09 | 3.01E-12 | 7.24E-11 | 1.08E-09 | 1.08E-09 | 5.33E-10 | 2.77E-09 |
| 3012 | 258333.7 | 4086623 | 5.98E-11 | 8.65E-10 | 1.53E-08 | 1.53E-08 | 8.52E-09 | 4.00E-08 | 9.08E-12 | 1.32E-10 | 2.39E-09 | 2.39E-09 | 1.31E-09 | 6.22E-09 | 4.93E-12 | 7.13E-11 | 1.08E-09 | 1.06E-09 | 5.25E-10 | 2.72E-09 |
| 3013 | 258358 | 4086622 | 3.89E-11 | 8.52E-10 | 1.50E-08 | 1.50E-08 | 8.39E-09 | 3.94E-08 | 8.94E-12 | 1.30E-10 | 2.33E-09 | 2.35E-09 | 1.29E-09 | 6.12E-09 | 4.86E-12 | 7.02E-11 | 1.05E-09 | 1.05E-09 | 5.17E-10 | 2.68E-09 |
| 3014 | 258382.3 | 4086621 | 3.80E-11 | 8.39E-10 | 1.48E-08 | 1.48E-08 | 6.26E-09 | 3.88E-08 | 6.81E-12 | 1.28E-10 | 2.31E-09 | 2.31E-09 | 1.27E-09 | 6.04E-09 | 4.78E-12 | 6.92E-11 | 1.03E-09 | 1.03E-09 | 5.10E-10 | 2.64E-09 |
| 3015 | 258406.6 | 4086620 | 3.71E-11 | 8.26E-10 | 1.46E-08 | 1.46E-08 | 8.14E-09 | 3.82E-08 | 6.67E-12 | 1.26E-10 | 2.28E-09 | 2.28E-09 | 1.25E-09 | 5.94E-09 | 4.71E-12 | 6.81E-11 | 1.01E-09 | 1.01E-09 | 5.02E-10 | 2.60E-09 |
| 3016 | 258430.8 | 4086619 | 3.62E-11 | 8.13E-10 | 1.44E-08 | 1.44E-08 | 8.01E-09 | 3.76E-08 | 8.54E-12 | 1.24E-10 | 2.24E-09 | 2.24E-09 | 1.23E-09 | 3.85E-09 | 4.64E-12 | 6.70E-11 | 9.98E-10 | 9.96E-10 | 4.94E-10 | 2.56E-09 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2829 | 256522.8 | 4085766 | 1.55E-10 | 2.24E-09 | 3.95E-08 | 3.95E-08 | 2.20E-08 | 1.03E-07 | 2.35E-11 | 3.41E-10 | 6.17E-09 | 6.17E-09 | 3.39E-09 | 1.81E-08 | 1.27E-11 | 1.84E-10 | 2.74E-09 | 2.74E-09 | 1.36E-09 | 7.04E-09 |
| 2830 | 256512.9 | 4085744 | 1.49E-10 | 2.16E-09 | 3.81E-08 | 3.81E-08 | 2.12E-08 | 9.97E-08 | 2.26E-11 | 3.26E-10 | 5.95E-09 | 5.95E-09 | 3.27E-09 | 1.55E-08 | 1.23E-11 | 1.78E-10 | 2.85E-09 | 2.65E-09 | 1.31E-09 | 6.79E-09 |
| 2831 | 256502.9 | 4085722 | 1.43E-10 | 2.07E-09 | 3.85E-08 | 3.65E-08 | 2.04E-08 | 9.56E-08 | 2.17E-11 | 3.15E-10 | 5.70E-09 | 5.70E-09 | 3.13E-09 | 1.49E-08 | 1.18E-11 | 1.70E-10 | 2.54E-09 | 2.34E-09 | 1.28E-09 | 6.31E-09 |
| 2832 | 256493 | 4085701 | 1.37E-10 | 1.98E-09 | 3.49E-08 | 3.49E-08 | 1.95E-08 | 9.14E-08 | 2.07E-11 | 3.01E-10 | 5.45E-09 | 5.45E-09 | 3.00E-09 | 1.42E-08 | 1.13E-11 | 1.63E-10 | 2.42E-09 | 2.42E-09 | 1.20E-09 | 6.22E-09 |
| 2833 | 256483 | 4085679 | 1.30E-10 | 1.88E-09 | 3.31E-08 | 3.31E-08 | 1.85E-08 | 8.68E-08 | 1.97E-11 | 2.66E-10 | 5.18E-09 | 3.16E-09 | 2.85E-09 | 1.35E-08 | 1.07E-11 | 1.35E-10 | 2.30E-09 | 2.30E-09 | 1.14E-09 | 5.91E-09 |
| 2834 | 256473 | 4085658 | 1.23E-10 | 1.78E-09 | 3.14E-08 | 3.14E-08 | 1.75E-08 | 8.21E-08 | 1.86E-11 | 2.70E-10 | 4.90E-09 | 4.90E-09 | 2.89E-09 | 1.28E-08 | 1.01E-11 | 1.46E-10 | 2.18E-09 | 2.16E-09 | 1.08E-09 | 5.59E-09 |
| 2835 | 256463.1 | 4085636 | 1.16E-10 | 1.67E-09 | 2.96E-08 | 2.96E-08 | 1.65E-08 | 7.74E-08 | 1.76E-11 | 2.55E-10 | 4.62E-09 | 4.62E-09 | 2.54E-09 | 1.20E-08 | 9.54E-12 | 1.38E-10 | 2.05E-09 | 2.05E-09 | 1.02E-09 | 5.27E-09 |
| 2836 | 256453.1 | 4083814 | 1.09E-10 | 1.38E-09 | 2.78E-08 | 2.78E-08 | 1.35E-08 | 7.28E-08 | 1.65E-11 | 2.40E-10 | 4.34E-09 | 4.34E-09 | 2.39E-09 | 1.13E-08 | 8.98E-12 | 1.30E-10 | 1.93E-09 | 1.93E-09 | 9.56E-10 | 4.96E-09 |
| 2837 | 256443.2 | 4083593 | 1.02E-10 | 1.48E-09 | 2.62E-08 | 2.62E-08 | 1.46E-08 | 6.85E-08 | 1.55E-11 | 2.26E-10 | 4.09E-09 | 4.09E-09 | 2.25E-09 | 1.07E-08 | 8.44E-12 | 1.22E-10 | 1.82E-09 | 1.82E-09 | 9.00E-10 | 4.67E-09 |
| 2838 | 256433.2 | 4085571 | 9.65E-11 | 1.40E-09 | 2.46E-08 | 2.48E-08 | 1.37E-08 | 6.45E-08 | 1.46E-11 | 2.13E-10 | 3.85E-09 | 3.83E-09 | 2.12E-09 | 1.00E-08 | 7.95E-12 | 1.15E-10 | 1.71E-08 | 1.71E-09 | 8.47E-10 | 4.39E-09 |
| 2839 | 256423.3 | 4085550 | 9.11E-11 | 1.32E-09 | 2.33E-08 | 2.33E-08 | 1.30E-08 | 6.09E-08 | 1.38E-11 | 2.01E-10 | 3.63E-09 | 3.63E-09 | 2.00E-09 | 9.48E-09 | 7.51E-12 | 1.09E-10 | 1.62E-09 | 1.62E-09 | 8.00E-10 | 4.15E-09 |
| 2840 | 256413.3 | 4085526 | 8.64E-11 | 1.23E-09 | 2.21E-08 | 2.21E-08 | 1.23E-08 | 5.78E-08 | 1.31E-11 | 1.90E-10 | 3.45E-09 | 3.45E-09 | 1.90E-09 | 8.99E-09 | 7.12E-12 | 1.03E-10 | 1.53E-09 | 1.53E-09 | 7.59E-10 | 3.94E-09 |
| 2841 | 256403.4 | 4085506 | 8.24E-11 | 1.19E-09 | 2.10E-08 | 2.10E-08 | 1.17E-08 | 5.31E-08 | 1.25E-11 | 1.83E-10 | 3.29E-09 | 3.29E-09 | 1.81E-09 | 8.57E-09 | 6.79E-12 | 9.82E-11 | 1.48E-09 | 1.46E-09 | 7.24E-10 | 3.75E-09 |
| 2842 | 256393.4 | 4085485 | 7.90E-11 | 1.14E-09 | 2.02E-08 | 2.02E-08 | 1.12E-08 | 5.28E-08 | 1.20E-11 | 1.74E-10 | 3.15E-09 | 3.15E-09 | 1.73E-09 | 8.22E-09 | 6.31E-12 | 9.42E-11 | 1.40E-09 | 1.40E-09 | 8.94E-10 | 3.60E-09 |
| 2843 | 256383.3 | 4085463 | 7.61E-11 | 1.10E-09 | 1.94E-08 | 1.94E-08 | 1.08E-08 | 5.09E-08 | 1.16E-11 | 1.68E-10 | 3.04E-09 | 3.04E-09 | 1.87E-09 | 7.92E-09 | 6.08E-12 | 8.79E-11 | 1.31E-09 | 1.35E-09 | 8.69E-10 | 3.47E-09 |
| 2844 | 256373.3 | 4085441 | 7.37E-11 | 1.07E-09 | 1.88E-08 | 1.88E-08 | 1.05E-08 | 4.93E-08 | 1.12E-11 | 1.62E-10 | 2.94E-09 | 2.94E-09 | 1.62E-09 | 7.67E-09 | 6.08E-12 | 8.79E-11 | 1.31E-09 | 1.31E-09 | 8.48E-10 | 3.36E-09 |
| 2843 | 256363.6 | 4085420 | 7.17E-11 | 1.04E-09 | 1.83E-08 | 1.83E-08 | 1.02E-08 | 4.79E-08 | 1.09E-11 | 1.58E-10 | 2.86E-09 | 2.68E-09 | 1.37E-09 | 7.46E-09 | 3.91E-12 | 8.55E-11 | 1.27E-09 | 1.27E-09 | 8.30E-10 | 3.27E-09 |
| 2846 | 256353.6 | 4085398 | 6.99E-11 | 1.01E-09 | 1.79E-08 | 1.79E-08 | 9.95E-09 | 4.67E-08 | 1.06E-11 | 1.54E-10 | 2.79E-09 | 2.79E-09 | 1.53E-09 | 7.27E-09 | 5.76E-12 | 8.33E-11 | 1.24E-09 | 1.24E-09 | 6.14E-10 | 3.18E-09 |
| 2847 | 256343.7 | 4085377 | 6.83E-11 | 9.87E-10 | 1.74E-08 | 1.74E-08 | 9.72E-09 | 4.56E-08 | 1.04E-11 | 1.50E-10 | 2.72E-09 | 2.72E-09 | 1.50E-09 | 7.10E-09 | 5.63E-12 | 8.14E-11 | 1.21E-09 | 1.21E-09 | 3.99E-10 | 3.11E-09 |
| 2848 | 256333.7 | 4085355 | 6.67E-11 | 9.65E-10 | 1.70E-08 | 1.70E-08 | 9.50E-09 | 4.46E-08 | 1.01E-11 | 1.47E-10 | 2.66E-09 | 2.66E-09 | 1.46E-09 | 6.94E-09 | 5.50E-12 | 7.95E-11 | 1.18E-09 | 1.18E-09 | 5.86E-10 | 3.04E-09 |
| 2849 | 256323.8 | 4085333 | 6.52E-11 | 9.44E-10 | 1.67E-08 | 1.67E-08 | 9.29E-09 | 4.36E-08 | 9.90E-12 | 1.44E-10 | 2.60E-09 | 2.60E-09 | 1.43E-09 | 6.79E-09 | 5.38E-12 | 7.78E-11 | 1.16E-09 | 1.16E-09 | 3.73E-10 | 2.97E-09 |
| 2850 | 256313.6 | 4085312 | 6.38E-11 | 9.23E-10 | 1.63E-08 | 1.63E-08 | 9.09E-09 | 4.27E-08 | 9.68E-12 | 1.41E-10 | 2.54E-09 | 2.54E-09 | 1.40E-09 | 6.64E-09 | 5.26E-12 | 7.61E-11 | 1.13E-09 | 1.13E-09 | 3.60E-10 | 2.91E-09 |
| 2851 | 256303.9 | 4085290 | 8.24E-11 | 9.03E-10 | 1.39E-08 | 1.59E-08 | 8.89E-09 | 4.17E-08 | 9.48E-12 | 1.38E-10 | 2.49E-09 | 2.49E-09 | 1.37E-09 | 6.50E-09 | 5.15E-12 | 7.44E-11 | 1.11E-09 | 1.11E-09 | 5.48E-10 | 2.84E-09 |
| 2852 | 256293.9 | 4085269 | 8.11E-11 | 8.84E-10 | 1.56E-08 | 1.56E-08 | 6.71E-09 | 4.09E-08 | 9.28E-12 | 1.35E-10 | 2.44E-09 | 2.44E-09 | 1.34E-09 | 8.36E-09 | 5.04E-12 | 7.29E-11 | 1.08E-09 | 1.08E-09 | 5.37E-10 | 2.76E-09 |
| 2833 | 256284 | 4085247 | 5.99E-11 | 8.67E-10 | 1.33E-08 | 1.35E-08 | 8.54E-09 | 4.01E-08 | 9.10E-12 | 1.32E-10 | 2.39E-09 | 2.39E-09 | 1.31E-09 | 8.24E-09 | 4.94E-12 | 7.15E-11 | 1.06E-09 | 1.06E-09 | 5.26E-10 | 2.73E-09 |
| 2854 | 256274 | 4085225 | 5.89E-11 | 8.52E-10 | 1.50E-08 | 1.50E-08 | 8.39E-09 | 3.94E-08 | 8.94E-12 | 1.30E-10 | 2.35E-09 | 2.35E-09 | 1.29E-09 | 8.13E-09 | 4.85E-12 | 7.02E-11 | 1.04E-09 | 1.04E-09 | 5.17E-10 | 2.68E-09 |
| 2855 | 257620.7 | 4086454 | 1.15E-10 | 1.67E-09 | 2.94E-08 | 2.94E-08 | 1.64E-08 | 7.71E-08 | 1.75E-11 | 2.54E-10 | 4.60E-09 | 4.60E-09 | 2.53E-09 | 1.20E-08 | 9.50E-12 | 1.37E-10 | 2.05E-09 | 2.05E-09 | 1.01E-09 | 3.25E-09 |
| 2856 | 257645 | 4086453 | 1.14E-10 | 1.65E-09 | 2.91E-08 | 2.91E-08 | 1.62E-08 | 7.61E-08 | 1.73E-11 | 2.51E-10 | 4.54E-09 | 4.54E-09 | 2.50E-09 | 1.18E-08 | 9.38E-12 | 1.36E-10 | 2.02E-08 | 2.02E-09 | 1.00E-09 | 5.18E-09 |
| 2857 | 257669.2 | 4086452 | 1.12E-10 | 1.63E-09 | 2.87E-08 | 2.87E-08 | 1.60E-08 | 7.31E-08 | 1.71E-11 | 2.48E-10 | 4.48E-09 | 4.48E-09 | 2.46E-09 | 1.17E-08 | 9.26E-12 | 1.34E-10 | 1.99E-09 | 1.99E-09 | 9.87E-10 | 5.12E-09 |
| 2858 | 257693.3 | 4086451 | 1.11E-10 | 1.60E-09 | 2.83E-08 | 2.83E-08 | 1.58E-08 | 7.41E-08 | 1.68E-11 | 2.44E-10 | 4.42E-09 | 4.42E-09 | 2.43E-09 | 1.15E-08 | 9.14E-12 | 1.32E-10 | 1.97E-09 | 1.97E-09 | 9.74E-10 | 5.05E-09 |
| 2859 | 257717.8 | 4086450 | 1.09E-10 | 1.58E-09 | 2.79E-08 | 2.79E-08 | 1.58E-08 | 7.31E-08 | 1.66E-11 | 2.41E-10 | 4.36E-09 | 4.36E-09 | 2.40E-09 | 1.14E-08 | 9.01E-12 | 1.30E-10 | 1.94E-09 | 1.94E-09 | 9.60E-10 | 4.98E-09 |
| 2850 | 257742.1 | 4086449 | 1.08E-10 | 1.56E-09 | 2.75E-08 | 2.75E-08 | 1.54E-08 | 7.21E-08 | 1.64E-11 | 2.38E-10 | 4.30E-09 | 4.30E-09 | 2.36E-09 | 1.12E-08 | 8.89E-12 | 1.29E-10 | 1.91E-09 | 1.91E-09 | 9.47E-10 | 4.91E-09 |
| 2861 | 257766.4 | 4086448 | 1.07E-10 | 1.54E-09 | 2.72E-08 | 2.72E-08 | 1.32E-08 | 7.12E-08 | 1.62E-11 | 2.35E-10 | 4.25E-09 | 4.25E-09 | 2.34E-09 | 1.11E-08 | 8.78E-12 | 1.27E-10 | 1.89E-09 | 1.89E-09 | 9.36E-10 | 4.85E-09 |
| 2862 | 257790.7 | 4086447 | 1.05E-10 | 1.52E-09 | 2.69E-08 | 2.69E-08 | 1.50E-08 | 7.04E-08 | 1.60E-11 | 2.32E-10 | 4.20E-09 | 4.20E-09 | 2.31E-09 | 1.10E-08 | 8.68E-12 | 1.26E-10 | 1.87E-09 | 1.87E-09 | 9.25E-10 | 4.79E-09 |
| 2863 | 257814.9 | 4086446 | 1.04E-10 | 1.50E-09 | 2.66E-08 | 2.66E-08 | 1.48E-08 | 6.95E-08 | 1.58E-11 | 2.29E-10 | 4.15E-09 | 4.15E-09 | 2.28E-09 | 1.08E-08 | 8.57E-12 | 1.24E-10 | 1.85E-09 | 1.83E-09 | 9.13E-10 | 4.74E-09 |
| 2864 | 257839.2 | 4086445 | 1.03E-10 | 1.49E-09 | 2.62E-08 | 2.62E-08 | 1.46E-08 | 6.87E-08 | 1.56E-11 | 2.28E-10 | 4.10E-09 | 4.10E-09 | 2.23E-09 | 1.07E-08 | 8.47E-12 | 1.22E-10 | 1.82E-09 | 1.83E-09 | 9.02E-10 | 4.68E-09 |
| 2865 | 257863.3 | 4086444 | 1.01E-10 | 1.47E-09 | 2.39E-08 | 2.39E-08 | 1.44E-08 | 6.78E-08 | 1.54E-11 | 2.23E-10 | 4.04E-09 | 4.04E-09 | 2.22E-09 | 1.05E-08 | 8.36E-12 | 1.21E-10 | 1.80E-09 | 1.80E-09 | 8.90E-10 | 4.62E-09 |
| 2866 | 257687.8 | 4086443 | 1.00E-10 | 1.45E-09 | 2.53E-08 | 2.33E-08 | 1.42E-08 | 6.69E-08 | 1.32E-11 | 2.20E-10 | 3.99E-09 | 3.99E-09 | 2.19E-09 | 1.04E-08 | 8.24E-12 | 1.19E-10 | 1.77E-09 | 1.77E-09 | 8.78E-10 | 4.33E-09 |
| 2867 | 257912.1 | 4086441 | 9.85E-11 | 1.43E-09 | 2.32E-08 | 2.52E-08 | 1.40E-08 | 6.39E-08 | 1.50E-11 | 2.17E-10 | 3.93E-09 | 3.93E-09 | 2.16E-09 | 1.03E-08 | 8.12E-12 | 1.17E-10 | 1.75E-09 | 1.75E-09 | 8.65E-10 | 4.49E-09 |
| 2868 | 257936.3 | 4086440 | 9.69E-11 | 1.40E-09 | 2.48E-08 | 2.48E-08 | 1.38E-08 | 6.48E-08 | 1.47E-11 | 2.14E-10 | 3.87E-09 | 3.87E-09 | 2.13E-09 | 1.01E-08 | 7.99E-12 | 1.16E-10 | 1.72E-09 | 1.77E-09 | 8.31E-10 | 4.42E-09 |
| 2869 | 257960.6 | 4086439 | 9.33E-11 | 1.38E-09 | 2.43E-08 | 2.43E-08 | 1.36E-08 | 6.37E-08 | 1.45E-11 | 2.10E-10 | 3.80E-09 | 3.80E-09 | 2.09E-09 | 9.92E-09 | 7.86E-12 | 1.14E-10 | 1.69E-09 | 1.69E-09 | 8.37E-10 | 4.34E-09 |
| 2870 | 257984.9 | 4086436 | 9.36E-11 | 1.35E-09 | 2.39E-08 | 2.39E-08 | 1.33E-08 | 6.26E-08 | 1.42E-11 | 2.06E-10 | 3.73E-09 | 3.73E-09 | 2.05E-09 | 9.73E-09 | 7.71E-12 | 1.12E-10 | 1.66E-09 | 1.66E-09 | 8.22E-10 | 4.26E-09 |
| 2871 | 258009.2 | 4086437 | 9.17E-11 | 1.33E-09 | 2.34E-08 | 2.34E-08 | 1.31E-08 | 6.13E-08 | 1.39E-11 | 2.02E-10 | 3.66E-09 | 3.66E-09 | 2.01E-09 | 9.54E-09 | 7.56E-12 | 1.09E-10 | 1.63E-09 | 1.63E-09 | 8.06E-10 | 4.18E-09 |
| 2872 | 258033.5 | 4086436 | 8.99E-11 | 1.30E-09 | 2.30E-08 | 2.30E-08 | 1.28E-08 | 6.01E-08 | 1.38E-11 | 1.98E-10 | 3.58E-09 | 3.58E-09 | 1.97E-09 | 9.35E-09 | 7.41E-12 | 1.07E-10 | 1.59E-09 | 1.39E-09 | 7.89E-10 | 4.09E-09 |
| 2873 | 258057.8 | 4086435 | 8.80E-11 | 1.27E-09 | 2.25E-08 | 2.25E-08 | 1.25E-08 | 5.89E-08 | 1.34E-11 | 1.94E-10 | 3.51E-09 | 3.51E-09 | 1.93E-09 | 9.16E-09 | 7.26E-12 | 1.05E-10 | 1.56E-09 | 1.56E-09 | 7.73E-10 | 4.01E-09 |
| 2874 | 258082 | 4086434 | 8.62E-11 | 1.25E-09 | 2.20E-08 | 2.20E-08 | 1.23E-08 | 5.78E-08 | 1.31E-11 | 1.90E-10 | 3.44E-09 | 3.44E-09 | 1.89E-09 | 8.97E-09 | 7.10E-12 | 1.03E-10 | 1.53E-09 | 1.53E-09 | 7.37E-10 | 3.92E-09 |
| 2875 | 258106.3 | 4086433 | 8.44E-11 | 1.22E-09 | 2.15E-08 | 2.15E-08 | 1.20E-08 | 5.64E-08 | 1.28E-11 | 1.66E-10 | 3.36E-09 | 3.38E-09 | 1.83E-09 | 8.78E-09 | 8.95E-12 | 1.01E-10 | 1.50E-09 | 1.50E-09 | 7.41E-10 | 3.84E-09 |
| 2876 | 258130.6 | 4086432 | 8.27E-11 | 1.20E-09 | 2.11E-08 | 2.11E-08 | 1.18E-08 | 5.33E-08 | 1.25E-11 | 1.82E-10 | 3.30E-09 | 3.30E-09 | 1.81E-09 | 8.60E-09 | 6.82E-12 | 9.86E-11 | 1.47E-09 | 1.47E-09 | 7.28E-10 | 3.77E-09 |
| 2877 | 258154.9 | 4086431 | 8.11E-11 | 1.17E-09 | 2.07E-08 | 2.07E-08 | 1.15E-08 | 5.42E-08 | 1.23E-11 | 1.79E-10 | 3.23E-09 | 3.23E-09 | 1.78E-09 | 8.44E-09 | 6.68E-12 | 9.67E-11 | 1.44E-09 | 1.44E-09 | 7.12E-10 | 3.89E-09 |
| 2878 | 258179.2 | 4086430 | 7.96E-11 | 1.15E-09 | 2.03E-08 | 2.03E-08 | 1.15E-08 | 5.32E-08 | 1.21E-11 | 1.75E-10 | 3.17E-09 | 3.17E-09 | 1.73E-09 | 8.28E-09 | 6.56E-12 | 9.49E-11 | 1.41E-09 | 1.41E-09 | 6.99E-10 | 3.83E-09 |
| 2879 | 258203.4 | 4086429 | 7.82E-11 | 1.13E-09 | 2.00E-08 | 2.00E-08 | 1.11E-08 | 5.25E-08 | 1.19E-11 | 1.72E-10 | 3.12E-09 | 3.12E-09 | 1.71E-09 | 8.14E-09 | 6.45E-12 | 9.32E-11 | 1.39E-09 | 1.39E-09 | 6.87E-10 | 3.56E-09 |
| 2880 | 258227.7 | 4086427 | 7.69E-11 | 1.11E-09 | 1.96E-08 | 1.96E-08 | 1.09E-08 | 5.14E-08 | 1.17E-11 | 1.69E-10 | 3.07E-09 | 3.07E-09 | 1.69E-09 | 8.00E-09 | 6.34E-12 | 9.17E-11 | 1.36E-09 | 1.36E-09 | 6.75E-10 | 3.50E-09 |
| 2881 | 258252 | 4086426 | 7.36E-11 | 1.09E-09 | 1.93E-08 | 1.93E-08 | 1.08E-08 | 5.06E-08 | 1.15E-11 | 1.67E-10 | 3.02E-09 | 3.02E-09 | 1.66E-09 | 7.87E-09 | 6.23E-12 | 9.01E-11 | 1.34E-09 | 1.34E-09 | 6.64E-10 | 3.44E-09 |
| 2882 | 258276.3 | 4086425 | 7.43E-11 | 1.07E-09 | 1.90E-08 | 1.90E-08 | 1.06E-08 | 4.97E-08 | 1.13E-11 | 1.64E-10 | 2.96E-09 | 2.96E-09 | 1.63E-09 | 7.73E-09 | 6.13E-12 | 8.86E-11 | 1.32E-09 | 1.32E-09 | 6.53E-10 | 3.38E-09 |
| 2883 | 258300.5 | 4086424 | 7.30E-11 | 1.06E-09 | 1.86E-08 | 1.86E-08 | 1.04E-08 | 4.88E-08 | 1.11E-11 | 1.61E-10 | 2.91E-09 | 2.91E-09 | 1.60E-09 | 7.59E-09 | 6.02E-12 | 8.70E-11 | 1.30E-09 | 1.30E-09 | 8.41E-10 | 3.32E-09 |
| 2884 | 258324.9 | 4086423 | 7.16E-11 | 1.04E-09 | 1.83E-08 | 1.83E-08 | 1.02E-08 | 4.79E-08 | 1.09E-11 | 1.58E-10 | 2.86E-09 | 2.86E-09 | 1.37E-09 | 7.43E-09 | 5.91E-12 | 8.54E-11 | 1.27E-09 | 1.27E-09 | 6.29E-10 | 3.28E-09 |
| 2885 | 258349.1 | 4086422 | 7.03E-11 | 1.02E-09 | 1.79E-08 | 1.79E-08 | 1.00E-08 | 4.70E-08 | 1.07E-11 | 1.55E-10 | 2.80E-09 | 2.80E-09 | 1.34E-09 | 7.31E-09 | 5.79E-12 | 8.38E-11 | 1.25E-09 | 1.25E-09 | 8.17E-10 | 3.20E-09 |
| 2886 | 258373.4 | 4086421 | 6.89E-11 | 9.96E-10 | 1.76E-08 | 1.76E-08 | 9.81E-09 | 4.60E-08 | 1.05E-11 | 1.52E-10 | 2.75E-09 | 2.75E-09 | 1.31E-09 | 7.16E-09 | 5.66E-12 | 8.21E-11 | 1.22E-09 | 1.22E-09 | 6.05E-10 | 3.14E-09 |
| 2887 | 258397.7 | 4086420 | 6.73E-11 | 9.76E-10 | 1.72E-08 | 1.72E-08 | 9.61E-09 | 4.51E-08 | 1.02E-11 | 1.49E-10 | 2.69E-09 | 2.69E-09 | 1.48E-09 | 7.02E-09 | 3.56E-12 | 8.04E-11 | 1.20E-09 | 1.20E-09 | 5.92E-10 | 3.07E-09 |
| 2888 | 258421 | 4086419 | 6.61E-11 | 9.55E-10 | 1.69E-08 | 1.69E-08 | 9.41E-09 | 4.47E-08 | 1.00E-11 | 1.46E-10 | 2.63E-09 | 2.63E-09 | 1.45E-09 | 6.87E-09 | 5.45E-12 | 7.88E-11 | 1.17E-09 | 1.17E-09 | 5.80E-10 | 3.01E-09 |
| 2889 | 257607 | 4086646 | 9.38E-11 | 1.36E-09 | 2.40E-08 | 2.40E-08 | 1.34E-08 | 8.28E-08 | 1.42E-11 | 2.07E-10 | 3.74E-09 | 3.74E-09 | 2.06E-09 | 9.76E-09 | 7.74E-12 | 1.12E-10 | 1.67E-09 | 1.67E-09 | 8.24E-10 | 4.27E-09 |
| 2890 | 257584.4 | 4086638 | 9.56E-11 | 1.38E-09 | 2.44E-08 | 2.44E-08 | 1.36E-08 | 6.39E-08 | 1.45E-11 | 2.11E-10 | 3.81E-09 | 3.81E-09 | 2.10E-09 | 9.95E-09 | 7.88E-12 | 1.14E-10 | 1.70E-09 | 1.70E-09 | 8.40E-10 | 4.35E-09 |
| 2891 | 257561.8 | 4086629 | 9.73E-11 | 1.41E-09 | 2.49E-08 | 2.49E-08 | 1.39E-08 | 8.32E-08 | 1.48E-11 | 2.15E-10 | 3.89E-09 | 3.89E-09 | 2.14E-09 | 1.01E-08 | 8.04E-12 | 1.16E-10 | 1.73E-09 | 1.73E-09 | 8.56E-10 | 4.44E-09 |
| 2892 | 257539.3 | 4086621 | 9.94E-11 | 1.44E-09 | 2.54E-08 | 2.54E-08 | 1.42E-08 | 8.65E-08 | 1.51E-11 | 2.19E-10 | 3.96E-09 | 3.96E-09 | 2.18E-09 | 1.03E-08 | 8.19E-12 | 1.19E-10 | 1.76E-09 | 1.76E-09 | 8.73E-10 | 4.33E-09 |
| 2893 | 257516.7 | 4086613 | 1.01E-10 | 1.47E-09 | 2.39E-08 | 2.39E-08 | 1.44E-08 | 6.78E-08 | 1.54E-11 | 2.23E-10 | 4.04E-09 | 4.04E-09 | 2.22E-09 | 1.05E-08 | 8.36E-12 | 1.21E-10 | 1.80E-09 | 1.80E-09 | 8.90E-10 | 4.62E-09 |
| 2894 | 257494.2 | 4086605 | 1.03E-10 | 1.50E-09 | 2.64E-08 | 2.64E-08 | 1.47E-08 | 6.91E-08 | 1.37E-11 | 2.28E-10 | 4.12E-09 | 4.12E-09 | 2.27E-09 | 1.08E-08 | 8.52E-12 | 1.23E-10 | 1.83E-09 | 1.83E-09 | 9.08E-10 | 4.71E-09 |
| 2895 | 257471.6 | 4086596 | 1.05E-10 | 1.32E-09 | 2.69E-08 | 2.69E-08 | 1.50E-08 | 7.05E-08 | 1.60E-11 | 2.32E-10 | 4.20E-09 | 4.20E-09 | 2.31E-09 | 1.10E-08 | 8.69E-12 | 1.26E-10 | 1.87E-09 | 1.87E-09 | 9.26E-10 | 4.80E-09 |
| 2896 | 257449 | 4086588 | 1.07E-10 | 1.35E-09 | 2.74E-08 | 2.74E-08 | 1.53E-08 | 7.18E-08 | 1.63E-11 | 2.37E-10 | 4.28E-09 | 4.28E-09 | 2.35E-09 | 1.12E-08 | 8.85E-12 | 1.28E-10 | 1.91E-09 | 1.91E-09 | 9.43E-10 | 4.89E-09 |
| 2897 | 237426.3 | 4086380 | 1.09E-10 | 1.58E-09 | 2.79E-08 | 2.79E-08 | 1.56E-08 | 7.31E-08 | 1.66E-11 | 2.41E-10 | 4.38E-09 | 4.38E-09 | 2.40E-09 | 1.14E-08 | 9.01E-12 | 1.30E-10 | 1.94E-09 | 1.94E-09 | 9.60E-10 | 4.98E-09 |
| 2898 | 237403.9 | 4088372 | 1.11E-10 | 1.61E-09 | 2.84E-08 | 2.84E-08 | 1.58E-08 | 7.43E-08 | 1.69E-11 | 2.43E-10 | 4.43E-09 | 4.43E-09 | 2.44E-09 | 1.16E-08 | 9.16E-12 | 1.32E-10 | 1.97E-09 | 1.97E-09 | 9.76E-10 | 5.06E-09 |
| 2899 | 257581.3 | 4086383 | 1.13E-10 | 1.63E-09 | 2.88E-08 | 2.88E-08 | 1.81E-08 | 7.35E-08 | 1.71E-11 | 2.49E-10 | 4.30E-09 | 4.50E-09 | 2.47E-09 | 1.17E-08 | 9.30E-12 | 1.35E-10 | 2.00E-09 | 2.00E-09 | 9.91E-10 | 5.14E-09 |
| 2900 | 257358.8 | 4086353 | 1.14E-10 | 1.65E-09 | 2.92E-08 | 2.92E-08 | 1.63E-08 | 7.63E-08 | 1.74E-11 | 2.32E-10 | 4.38E-09 | 4.56E-09 | 2.31E-09 | 1.19E-08 | 9.43E-12 | 1.36E-10 | 2.03E-09 | 2.03E-09 | 1.00E-09 | 5.21E-09 |
| 2901 | 237336.2 | 4086547 | 1.16E-10 | 1.68E-09 | 2.96E-08 | 2.96E-08 | 1.65E-08 | 7.75E-08 | 1.76E-11 | 2.33E-10 | 4.62E-09 | 4.62E-09 | 2.54E-09 | 1.21E-08 | 9.35E-12 | 1.38E-10 | 2.06E-09 | 2.06E-09 | 1.02E-09 | 5.28E-09 |
| 2902 | 257313.6 | 4086339 | 1.17E-10 | 1.70E-09 | 2.99E-08 | 2.99E-08 | 1.67E-08 | 7.84E-08 | 1.78E-11 | 2.58E-10 | 4.67E-09 | 4.67E-09 | 2.37E-09 | 1.22E-08 | 9.66E-12 | 1.40E-10 | 2.08E-09 | 2.08E-09 | 1.03E-09 | 5.34E-09 |
| 2903 | 257291.1 | 4086330 | 1.18E-10 | 1.71E-09 | 3.02E-08 | 3.02E-08 | 1.69E-08 | 7.92E-08 | 1.80E-11 | 2.61E-10 | 4.72E-09 | 4.72E-09 | 2.60E-09 | 1.23E-08 | 9.76E-12 | 1.41E-10 | 2.10E-09 | 2.10E-09 | 1.04E-09 | 5.39E-09 |
| 2904 | 257268.5 | 4086322 | 1.20E-10 | 1.73E-09 | 3.06E-08 | 3.06E-08 | 1.70E-08 | 8.00E-08 | 1.82E-11 | 2.64E-10 | 4.77E-09 | 4.77E-09 | 2.62E-09 | 1.24E-08 | 9.86E-12 | 1.43E-10 | 2.12E-09 | 2.12E-09 | 1.05E-09 | 5.45E-09 |
| 2905 | 757246 | 4086514 | 1.21E-10 | 1.75E-09 | 3.09E-08 | 3.09E-08 | 1.72E-08 | 8.08E-08 | 1.83E-11 | 2.66E-10 | 4.82E-09 | 4.83E-09 | 2.65E-09 | 1.26E-08 | 9.96E-12 | 1.44E-10 | 2.14E-09 | 2.14E-09 | 1.06E-09 | 5.50E-09 |
| 2906 | 257223.4 | 4086506 | 1.22E-10 | 1.77E-09 | 3.12E-08 | 3.12E-08 | 1.74E-08 | 8.17E-08 | 1.85E-11 | 2.69E-10 | 4.87E-09 | 4.87E-09 | 2.68E-09 | 1.27E-08 | 1.01E-11 | 1.46E-10 | 2.17E-09 | 2.17E-09 | 1.07E-09 | 5.37E-09 |
| 2907 | 257200.8 | 4086498 | 1.23E-10 | 1.79E-09 | 3.15E-08 | 3.15E-08 | 1.76E-08 | 8.25E-08 | 1.87E-11 | 2.72E-10 | 4.92E-09 | 4.92E-09 | 2.71E-09 | 1.28E-08 | 1.02E-11 | 1.47E-10 | 2.19E-09 | 2.19E-09 | 1.08E-09 | 5.62E-09 |
| 2908 | 257178.3 | 4086489 | 1.25E-10 | 1.80E-09 | 3.18E-08 | 3.18E-08 | 1.77E-08 | 8.33E-08 | 1.89E-11 | 2.75E-10 | 4.97E-09 | 4.97E-09 | 2.73E-09 | 1.30E-08 | 1.03E-11 | 1.49E-10 | 2.21E-09 | 2.21E-09 | 1.09E-09 | 5.67E-09 |
| 2909 | 257155.7 | 4086481 | 1.26E-10 | 1.82E-09 | 3.21E-08 | 3.21E-08 | 1.79E-08 | 8.41E-08 | 1.91E-11 | 2.77E-10 | 5.02E-09 | 5.02E-09 | 2.76E-09 | 1.31E-08 | 1.04E-11 | 1.50E-10 | 2.23E-09 | 2.23E-09 | 1.10E-09 | 5.73E-09 |
| 2910 | 257133.1 | 4086473 | 1.27E-10 | 1.84E-09 | 3.24E-08 | 3.24E-08 | 1.81E-08 | 8.49E-08 | 1.93E-11 | 2.80E-10 | 5.06E-09 | 5.06E-09 | 2.78E-09 | 1.32E-08 | 1.05E-11 | 1.51E-10 | 2.25E-09 | 2.25E-09 | 1.11E-09 | 5.78E-09 |
| 2911 | 257110.6 | 4086465 | 1.28E-10 | 1.83E-09 | 3.27E-08 | 3.27E-08 | 1.82E-08 | 8.57E-08 | 1.94E-11 | 2.82E-10 | 5.11E-09 | 5.11E-09 | 2.81E-09 | 1.33E-08 | 1.06E-11 | 1.53E-10 | 2.27E-09 | 2.27E-09 | 1.13E-09 | 5.83E-09 |
| 7912 | 257088 | 4086456 | 1.29E-10 | 1.87E-09 | 3.30E-08 | 3.30E-08 | 1.84E-08 | 8.64E-08 | 1.96E-11 | 2.85E-10 | 5.15E-09 | 5.15E-09 | 2.83E-09 | 1.34E-08 | 1.07E-11 | 1.54E-10 | 2.29E-09 | 2.29E-09 | 1.14E-09 | 5.89E-09 |
| 2913 | 257065.4 | 4086448 | 1.30E-10 | 1.88E-09 | 3.33E-08 | 3.33E-08 | 1.86E-08 | 8.71E-08 | 1.98E-11 | 2.87E-10 | 5.20E-09 | 5.20E-09 | 2.88E-09 | 1.36E-08 | 1.07E-11 | 1.55E-10 | 2.31E-09 | 2.31E-09 | 1.14E-09 | 5.94E-09 |
| 2914 | 757042.9 | 4086440 | 1.31E-10 | 1.90E-09 | 3.35E-08 | 3.35E-08 | 1.87E-08 | 8.78E-08 | 1.99E-11 | 2.89E-10 | 5.24E-09 | 5.24E-09 | 2.88E-09 | 1.37E-08 | 1.08E-11 | 1.37E-10 | 2.33E-09 | 2.33E-09 | 1.15E-09 | 5.98E-09 |
| 2913 | 257020.3 | 4086432 | 1.32E-10 | 1.91E-09 | 3.38E-08 | 3.38E-08 | 1.88E-08 | 8.84E-08 | 2.01E-11 | 2.91E-10 | 5.27E-09 | 5.27E-09 | 2.90E-09 | 1.38E-08 | 1.09E-11 | 1.58E-10 | 2.35E-09 | 2.35E-09 | 1.18E-09 | 6.02E-09 |
| 2918 | 256997.8 | 4086423 | 1.33E-10 | 1.92E-09 | 3.39E-08 | 3.29E-08 | 1.89E-08 | 8.89E-08 | 2.02E-11 | 

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2711 | 256746.9 | 4085811 | 2.08E-10 | 3.01E-09 | 5.32E-08 | 5.32E-08 | 2.96E-08 | 1.39E-07 | 3.16E-11 | 4.59E-10 | 8.30E-09 | 8.30E-09 | 4.56E-09 | 2.17E-08 | 1.77E-11 | 2.48E-10 | 3.69E-09 | 3.69E-09 | 1.83E-09 | 9.46E-09 |
| 2712 | 256736.8 | 4085789 | 2.07E-10 | 2.99E-09 | 5.29E-08 | 5.29E-08 | 2.95E-08 | 1.38E-07 | 3.14E-11 | 4.56E-10 | 8.26E-09 | 8.26E-09 | 4.54E-09 | 2.15E-08 | 1.71E-11 | 2.47E-10 | 3.67E-09 | 3.67E-09 | 1.82E-09 | 9.43E-09 |
| 2713 | 256726.7 | 4085767 | 2.05E-10 | 2.96E-09 | 5.23E-08 | 5.23E-08 | 2.92E-08 | 1.37E-07 | 3.11E-11 | 4.52E-10 | 8.17E-09 | 8.17E-09 | 4.49E-09 | 2.13E-08 | 1.69E-11 | 2.44E-10 | 3.64E-09 | 3.64E-09 | 1.80E-09 | 9.33E-09 |
| 2714 | 256716.5 | 4085745 | 2.02E-10 | 2.92E-09 | 5.15E-08 | 5.15E-08 | 2.87E-08 | 1.35E-07 | 3.06E-11 | 4.45E-10 | 8.05E-09 | 8.05E-09 | 4.42E-09 | 2.10E-08 | 1.66E-11 | 2.41E-10 | 3.58E-09 | 3.58E-09 | 1.77E-09 | 9.19E-09 |
| 2715 | 256706.4 | 4085723 | 1.98E-10 | 2.86E-09 | 5.05E-08 | 5.05E-08 | 2.81E-08 | 1.32E-07 | 3.00E-11 | 4.35E-10 | 7.88E-09 | 7.88E-09 | 4.33E-09 | 2.06E-08 | 1.63E-11 | 2.36E-10 | 3.50E-09 | 3.50E-09 | 1.73E-09 | 9.00E-09 |
| 2716 | 256696.3 | 4085701 | 1.93E-10 | 2.79E-09 | 4.92E-08 | 4.92E-08 | 2.74E-08 | 1.29E-07 | 2.92E-11 | 4.24E-10 | 7.68E-09 | 7.68E-09 | 4.22E-09 | 2.00E-08 | 1.59E-11 | 2.30E-10 | 3.42E-09 | 3.42E-09 | 1.69E-09 | 8.77E-09 |
| 2717 | 256686.2 | 4085679 | 1.86E-10 | 2.70E-09 | 4.76E-08 | 4.76E-08 | 2.65E-08 | 1.25E-07 | 2.83E-11 | 4.11E-10 | 7.43E-09 | 7.43E-09 | 4.09E-09 | 1.94E-08 | 1.54E-11 | 2.22E-10 | 3.31E-09 | 3.31E-09 | 1.64E-09 | 8.49E-09 |
| 2718 | 256676.1 | 4085657 | 1.79E-10 | 2.59E-09 | 4.58E-08 | 4.58E-08 | 2.55E-08 | 1.20E-07 | 2.72E-11 | 3.95E-10 | 7.15E-09 | 7.15E-09 | 3.93E-09 | 1.86E-08 | 1.48E-11 | 2.14E-10 | 3.16E-09 | 3.18E-09 | 1.57E-09 | 8.16E-09 |
| 2719 | 256666 | 4085635 | 1.71E-10 | 2.48E-09 | 4.37E-08 | 4.37E-08 | 2.44E-08 | 1.15E-07 | 2.60E-11 | 3.77E-10 | 6.83E-09 | 6.83E-09 | 3.75E-09 | 1.78E-08 | 1.41E-11 | 2.04E-10 | 3.04E-09 | 3.04E-09 | 1.50E-09 | 7.80E-09 |
| 2720 | 256655.9 | 4085613 | 1.83E-10 | 2.35E-09 | 4.15E-08 | 4.15E-08 | 2.32E-08 | 1.09E-07 | 2.47E-11 | 3.58E-10 | 6.49E-09 | 6.49E-09 | 3.57E-09 | 1.69E-08 | 1.34E-11 | 1.94E-10 | 2.89E-09 | 2.89E-09 | 1.43E-09 | 7.41E-09 |
| 2721 | 256645.8 | 4085591 | 1.54E-10 | 2.22E-08 | 3.92E-08 | 3.92E-08 | 2.19E-08 | 1.03E-07 | 2.33E-11 | 3.39E-10 | 6.13E-09 | 6.13E-09 | 3.37E-09 | 1.60E-08 | 1.27E-11 | 1.83E-10 | 2.77E-09 | 2.73E-09 | 1.35E-09 | 7.00E-09 |
| 2722 | 256635.7 | 4085569 | 1.44E-10 | 2.09E-08 | 3.69E-08 | 3.69E-08 | 2.06E-08 | 9.66E-08 | 2.19E-11 | 3.18E-10 | 5.76E-09 | 5.76E-09 | 3.17E-09 | 1.50E-08 | 1.19E-11 | 1.72E-10 | 2.56E-09 | 2.56E-09 | 1.27E-09 | 6.58E-09 |
| 2723 | 256625.6 | 4085547 | 1.35E-10 | 1.96E-08 | 3.46E-08 | 3.46E-08 | 1.93E-08 | 9.05E-08 | 2.05E-11 | 2.96E-10 | 5.40E-09 | 5.40E-09 | 2.97E-09 | 1.41E-08 | 1.12E-11 | 1.61E-10 | 2.40E-09 | 2.40E-09 | 1.19E-09 | 6.16E-09 |
| 2724 | 256615.5 | 4085526 | 1.27E-10 | 1.83E-09 | 3.23E-08 | 3.25E-08 | 1.80E-08 | 8.47E-08 | 1.92E-11 | 2.79E-10 | 5.05E-09 | 5.05E-09 | 2.76E-09 | 1.32E-08 | 1.04E-11 | 1.51E-10 | 2.25E-09 | 2.25E-09 | 1.11E-09 | 5.77E-09 |
| 2725 | 256605.4 | 4085504 | 1.18E-10 | 1.71E-09 | 3.03E-08 | 3.03E-08 | 1.69E-08 | 7.92E-08 | 1.80E-11 | 2.61E-10 | 4.73E-09 | 4.73E-09 | 2.60E-09 | 1.23E-08 | 9.77E-12 | 1.41E-10 | 2.10E-09 | 2.10E-09 | 1.04E-09 | 5.40E-09 |
| 2726 | 256595.3 | 4085482 | 1.11E-10 | 1.61E-09 | 2.84E-08 | 2.84E-08 | 1.58E-08 | 7.43E-08 | 1.69E-11 | 2.45E-10 | 4.43E-09 | 4.43E-09 | 2.44E-09 | 1.18E-08 | 9.16E-12 | 1.32E-10 | 1.97E-09 | 1.97E-09 | 9.76E-10 | 5.06E-09 |
| 2727 | 256585.2 | 4085460 | 1.05E-10 | 1.51E-09 | 2.67E-08 | 2.67E-08 | 1.49E-08 | 7.00E-08 | 1.59E-11 | 2.31E-10 | 4.17E-09 | 4.17E-09 | 2.29E-09 | 1.09E-08 | 8.61E-12 | 1.25E-10 | 1.86E-09 | 1.86E-09 | 9.19E-10 | 4.77E-09 |
| 2728 | 256575.1 | 4085438 | 9.91E-11 | 1.43E-09 | 2.53E-08 | 2.53E-08 | 1.41E-08 | 6.63E-08 | 1.50E-11 | 2.18E-10 | 3.95E-09 | 3.95E-09 | 2.17E-09 | 1.03E-08 | 8.17E-12 | 1.16E-10 | 1.76E-09 | 1.76E-09 | 8.70E-10 | 4.51E-09 |
| 2729 | 256565 | 4085416 | 9.44E-11 | 1.37E-09 | 2.41E-08 | 2.41E-08 | 1.34E-08 | 6.31E-08 | 1.43E-11 | 2.08E-10 | 3.76E-09 | 3.76E-09 | 2.07E-09 | 9.82E-09 | 7.78E-12 | 1.13E-10 | 1.67E-09 | 1.67E-09 | 8.29E-10 | 4.30E-09 |
| 2730 | 256554.9 | 4085394 | 9.05E-11 | 1.31E-09 | 2.31E-08 | 2.31E-08 | 1.29E-08 | 6.05E-08 | 1.37E-11 | 1.99E-10 | 3.61E-09 | 3.61E-09 | 1.98E-09 | 9.41E-09 | 7.46E-12 | 1.08E-10 | 1.61E-09 | 1.61E-09 | 7.95E-10 | 4.12E-09 |
| 2731 | 256544.8 | 4085372 | 8.72E-11 | 1.26E-09 | 2.23E-08 | 2.23E-08 | 1.24E-08 | 5.83E-08 | 1.32E-11 | 1.92E-10 | 3.48E-09 | 3.48E-09 | 1.91E-09 | 9.07E-09 | 7.19E-12 | 1.04E-10 | 1.55E-09 | 1.55E-09 | 7.66E-10 | 3.97E-09 |
| 2732 | 156534.7 | 4085350 | 8.43E-11 | 1.22E-09 | 2.15E-08 | 2.15E-08 | 1.20E-08 | 5.64E-08 | 1.28E-11 | 1.86E-10 | 3.36E-09 | 3.36E-09 | 1.85E-09 | 8.77E-09 | 6.95E-12 | 1.01E-10 | 1.50E-09 | 1.50E-09 | 7.41E-10 | 3.84E-09 |
| 2733 | 256524.5 | 4085328 | 8.18E-11 | 1.18E-09 | 2.09E-08 | 2.09E-08 | 1.16E-08 | 5.47E-08 | 1.24E-11 | 1.80E-10 | 3.26E-09 | 3.26E-09 | 1.79E-09 | 8.51E-09 | 6.74E-12 | 9.75E-11 | 1.45E-09 | 1.45E-09 | 7.18E-10 | 3.73E-09 |
| 2734 | 256514.4 | 4085306 | 7.95E-11 | 1.15E-09 | 2.03E-08 | 2.03E-08 | 1.13E-08 | 5.32E-08 | 1.21E-11 | 1.75E-10 | 3.17E-09 | 3.17E-09 | 1.74E-09 | 8.27E-09 | 6.56E-12 | 9.48E-11 | 1.41E-09 | 1.41E-09 | 6.98E-10 | 3.62E-09 |
| 2735 | 256504.3 | 4085284 | 7.74E-11 | 1.12E-09 | 1.98E-08 | 1.98E-08 | 1.10E-08 | 5.17E-08 | 1.17E-11 | 1.71E-10 | 3.09E-09 | 3.09E-09 | 1.70E-09 | 8.05E-09 | 6.38E-12 | 9.23E-11 | 1.37E-09 | 1.37E-09 | 6.80E-10 | 3.52E-09 |
| 2736 | 256494.2 | 4085262 | 7.54E-11 | 1.09E-09 | 1.93E-08 | 1.93E-08 | 1.07E-08 | 5.04E-08 | 1.14E-11 | 1.66E-10 | 3.01E-09 | 3.01E-09 | 1.65E-09 | 7.85E-09 | 6.22E-12 | 8.99E-11 | 1.34E-09 | 1.34E-09 | 6.62E-10 | 3.44E-09 |
| 2737 | 256484.1 | 4085240 | 7.36E-11 | 1.06E-09 | 1.88E-08 | 1.88E-08 | 1.05E-08 | 4.92E-08 | 1.12E-11 | 1.82E-10 | 2.94E-09 | 2.94E-09 | 1.61E-09 | 7.66E-09 | 6.07E-12 | 8.77E-11 | 1.31E-09 | 1.31E-09 | 6.46E-10 | 3.35E-09 |
| 2738 | 256474 | 4085218 | 7.20E-11 | 1.04E-09 | 1.84E-08 | 1.84E-08 | 1.03E-08 | 4.81E-08 | 1.09E-11 | 1.58E-10 | 2.87E-08 | 2.87E-09 | 1.56E-09 | 7.49E-09 | 5.93E-12 | 8.58E-11 | 1.28E-09 | 1.28E-09 | 6.32E-10 | 3.28E-09 |
| 2739 | 257611.8 | 4086255 | 1.51E-10 | 2.19E-09 | 3.85E-08 | 3.86E-08 | 2.15E-08 | 1.01E-07 | 2.29E-11 | 3.35E-10 | 6.03E-08 | 6.03E-09 | 3.31E-09 | 1.57E-08 | 1.25E-11 | 1.80E-10 | 2.68E-09 | 2.68E-09 | 1.33E-09 | 6.88E-09 |
| 2740 | 257636.1 | 4086253 | 1.50E-10 | 2.16E-09 | 3.82E-08 | 3.82E-08 | 2.13E-08 | 1.00E-07 | 2.27E-11 | 3.29E-10 | 5.96E-09 | 5.96E-09 | 3.28E-09 | 1.56E-08 | 1.23E-11 | 1.78E-10 | 2.65E-09 | 2.65E-09 | 1.31E-09 | 6.81E-09 |
| 2741 | 257660.4 | 4086252 | 1.46E-10 | 2.14E-09 | 3.77E-08 | 3.77E-08 | 2.10E-08 | 9.87E-08 | 2.24E-11 | 3.25E-10 | 5.89E-09 | 5.89E-09 | 3.24E-09 | 1.54E-08 | 1.22E-11 | 1.78E-10 | 2.62E-09 | 2.63E-09 | 1.30E-09 | 6.72E-09 |
| 2742 | 257684.7 | 4086251 | 1.46E-10 | 2.11E-08 | 3.72E-08 | 3.72E-08 | 2.07E-08 | 9.74E-08 | 2.21E-11 | 3.21E-10 | 5.81E-09 | 5.81E-09 | 3.19E-09 | 1.51E-08 | 1.20E-11 | 1.74E-10 | 2.58E-09 | 2.58E-09 | 1.28E-09 | 6.63E-09 |
| 2743 | 257709 | 4086250 | 1.43E-10 | 2.07E-08 | 3.66E-08 | 3.66E-08 | 2.04E-08 | 9.59E-08 | 2.16E-11 | 3.16E-10 | 5.77E-09 | 5.77E-09 | 3.14E-09 | 1.49E-08 | 1.18E-11 | 1.71E-10 | 2.55E-08 | 2.55E-09 | 1.26E-09 | 6.53E-09 |
| 2744 | 257733.2 | 4086249 | 1.41E-10 | 2.04E-09 | 3.60E-08 | 3.60E-08 | 2.01E-08 | 9.44E-08 | 2.14E-11 | 3.11E-10 | 5.63E-09 | 5.63E-09 | 3.09E-09 | 1.47E-08 | 1.16E-11 | 1.66E-10 | 2.50E-09 | 2.50E-09 | 1.24E-09 | 6.43E-09 |
| 2745 | 257757.5 | 4086248 | 1.39E-10 | 2.01E-09 | 3.55E-08 | 3.55E-08 | 1.98E-08 | 9.28E-08 | 2.11E-11 | 3.06E-10 | 5.54E-09 | 5.54E-08 | 3.04E-09 | 1.44E-08 | 1.14E-11 | 1.65E-10 | 2.46E-09 | 2.46E-08 | 1.22E-08 | 6.32E-09 |
| 2746 | 257781.8 | 4086247 | 1.36E-10 | 1.97E-09 | 3.48E-08 | 3.46E-08 | 1.94E-08 | 9.12E-08 | 2.07E-11 | 3.01E-10 | 5.44E-09 | 5.44E-09 | 2.99E-09 | 1.42E-08 | 1.12E-11 | 1.63E-10 | 2.42E-09 | 2.42E-09 | 1.20E-09 | 6.21E-09 |
| 2747 | 257806.1 | 4086246 | 1.34E-10 | 1.94E-08 | 3.42E-08 | 3.42E-08 | 1.91E-08 | 8.96E-08 | 2.03E-11 | 2.95E-10 | 5.34E-09 | 5.34E-09 | 2.94E-09 | 1.39E-08 | 1.10E-11 | 1.60E-10 | 2.38E-09 | 2.38E-09 | 1.18E-09 | 6.10E-09 |
| 2748 | 257830.4 | 4086245 | 1.31E-10 | 1.90E-09 | 3.36E-08 | 3.36E-08 | 1.87E-08 | 6.79E-08 | 2.00E-11 | 2.90E-10 | 5.24E-09 | 5.24E-09 | 2.86E-09 | 1.37E-08 | 1.08E-11 | 1.57E-10 | 2.33E-09 | 2.35E-09 | 1.15E-09 | 5.99E-09 |
| 2749 | 257854.7 | 4086244 | 1.29E-10 | 1.67E-09 | 3.30E-08 | 3.30E-08 | 1.84E-08 | 8.64E-08 | 1.96E-11 | 2.85E-10 | 5.15E-09 | 5.15E-09 | 2.83E-09 | 1.54E-08 | 1.06E-11 | 1.54E-10 | 2.29E-09 | 2.29E-09 | 1.13E-09 | 5.88E-09 |
| 2750 | 257878.9 | 4086243 | 1.27E-10 | 1.83E-09 | 3.24E-08 | 3.24E-08 | 1.81E-08 | 8.48E-08 | 1.92E-11 | 2.79E-10 | 5.06E-08 | 5.06E-09 | 2.78E-09 | 1.32E-08 | 1.04E-11 | 1.51E-10 | 2.25E-09 | 2.25E-09 | 1.11E-09 | 5.77E-09 |
| 2751 | 257903.2 | 4086242 | 1.24E-10 | 1.80E-09 | 3.18E-08 | 3.18E-08 | 1.77E-08 | 8.32E-08 | 1.89E-11 | 2.74E-10 | 4.96E-09 | 4.96E-09 | 2.73E-09 | 1.29E-08 | 1.03E-11 | 1.48E-10 | 2.21E-09 | 2.21E-09 | 1.09E-09 | 5.67E-09 |
| 2752 | 257927.5 | 4086241 | 1.22E-10 | 1.77E-09 | 3.12E-08 | 3.12E-08 | 1.74E-08 | 8.18E-08 | 1.66E-11 | 2.69E-10 | 4.88E-09 | 4.88E-09 | 2.66E-09 | 1.27E-08 | 1.01E-11 | 1.46E-10 | 2.17E-09 | 2.17E-09 | 1.07E-09 | 5.57E-09 |
| 2753 | 257951.8 | 4086239 | 1.20E-10 | 1.74E-09 | 3.07E-08 | 3.07E-08 | 1.71E-08 | 8.03E-08 | 1.62E-11 | 2.85E-10 | 4.79E-09 | 4.79E-09 | 2.63E-09 | 1.25E-08 | 9.90E-12 | 1.43E-10 | 2.13E-09 | 2.13E-09 | 1.06E-09 | 5.47E-09 |
| 2754 | 257976.1 | 4086238 | 1.18E-10 | 1.71E-09 | 3.01E-08 | 3.01E-08 | 1.68E-08 | 7.89E-08 | 1.79E-11 | 2.60E-10 | 4.71E-09 | 4.71E-09 | 2.59E-08 | 1.23E-08 | 9.77E-12 | 1.41E-10 | 2.09E-09 | 2.05E-09 | 1.04E-08 | 5.38E-09 |
| 2755 | 258000.3 | 4086237 | 1.16E-10 | 1.68E-08 | 2.96E-08 | 2.96E-08 | 1.65E-08 | 7.75E-08 | 1.76E-11 | 2.55E-10 | 4.62E-09 | 4.62E-09 | 2.54E-09 | 1.21E-08 | 9.56E-12 | 1.38E-10 | 2.06E-09 | 2.06E-09 | 1.02E-09 | 5.28E-09 |
| 2756 | 258024.6 | 4086216 | 1.14E-10 | 1.65E-08 | 2.91E-08 | 2.91E-08 | 1.62E-08 | 7.61E-08 | 1.75E-11 | 2.51E-10 | 4.54E-09 | 4.54E-09 | 2.50E-09 | 1.18E-08 | 9.38E-12 | 1.36E-10 | 2.02E-09 | 2.02E-09 | 9.99E-10 | 5.18E-09 |
| 2757 | 258048.9 | 4086235 | 1.12E-10 | 1.62E-09 | 2.85E-08 | 2.83E-08 | 1.59E-08 | 7.47E-08 | 1.70E-11 | 2.46E-10 | 4.45E-09 | 4.45E-09 | 2.45E-09 | 1.16E-08 | 9.21E-12 | 1.33E-10 | 1.98E-09 | 1.98E-09 | 9.81E-10 | 5.09E-09 |
| 2758 | 258073.2 | 4086234 | 1.10E-10 | 1.58E-09 | 2.80E-08 | 2.80E-08 | 1.56E-08 | 7.35E-08 | 1.66E-11 | 2.41E-10 | 4.37E-09 | 4.37E-09 | 2.40E-09 | 1.14E-08 | 9.03E-12 | 1.31E-10 | 1.94E-09 | 1.94E-09 | 9.62E-10 | 4.99E-09 |
| 2759 | 258097.5 | 4086233 | 1.07E-10 | 1.55E-09 | 2.74E-08 | 2.74E-08 | 1.53E-08 | 7.19E-08 | 1.63E-11 | 2.37E-10 | 4.29E-09 | 4.29E-09 | 2.36E-09 | 1.12E-08 | 8.86E-12 | 1.28E-10 | 1.91E-09 | 1.91E-09 | 9.44E-10 | 4.89E-09 |
| 2760 | 258121.8 | 4086232 | 1.06E-10 | 1.53E-09 | 2.70E-08 | 2.70E-08 | 1.50E-08 | 7.06E-08 | 1.60E-11 | 2.33E-10 | 4.21E-09 | 4.21E-09 | 2.32E-09 | 1.10E-08 | 8.71E-12 | 1.26E-10 | 1.87E-09 | 1.87E-09 | 9.28E-10 | 4.81E-09 |
| 2761 | 258146 | 4086231 | 1.04E-10 | 1.50E-09 | 2.65E-08 | 2.65E-08 | 1.48E-08 | 6.93E-08 | 1.57E-11 | 2.28E-10 | 4.13E-09 | 4.13E-09 | 2.27E-09 | 1.08E-08 | 6.54E-12 | 1.24E-10 | 1.84E-09 | 1.84E-09 | 9.10E-10 | 4.72E-09 |
| 2762 | 256170.3 | 4086230 | 1.02E-10 | 1.47E-09 | 2.59E-08 | 2.59E-08 | 1.45E-08 | 6.79E-08 | 1.54E-11 | 2.24E-10 | 4.05E-09 | 4.05E-09 | 2.23E-09 | 1.06E-08 | 6.37E-12 | 1.21E-10 | 1.80E-09 | 1.80E-09 | 8.91E-10 | 4.62E-09 |
| 2763 | 256194.6 | 4086229 | 9.94E-11 | 1.44E-09 | 2.54E-08 | 2.54E-08 | 1.42E-08 | 6.65E-08 | 1.51E-11 | 2.19E-10 | 3.96E-09 | 3.96E-09 | 2.18E-09 | 1.03E-08 | 6.19E-12 | 1.18E-10 | 1.76E-09 | 1.76E-09 | 8.75E-10 | 4.53E-09 |
| 2764 | 258218.9 | 4086228 | 9.73E-11 | 1.41E-09 | 2.48E-08 | 2.48E-08 | 1.39E-08 | 6.51E-08 | 1.48E-11 | 2.14E-10 | 3.88E-09 | 3.88E-08 | 2.13E-09 | 1.01E-08 | 6.02E-12 | 1.16E-10 | 1.73E-09 | 1.73E-09 | 8.54E-10 | 4.43E-09 |
| 2765 | 258243.2 | 4086227 | 9.52E-11 | 1.38E-09 | 2.43E-08 | 2.43E-08 | 1.36E-08 | 6.36E-08 | 1.44E-11 | 2.10E-10 | 3.80E-09 | 3.80E-09 | 2.09E-09 | 9.90E-09 | 7.84E-12 | 1.13E-10 | 1.69E-09 | 1.69E-09 | 8.38E-10 | 4.33E-09 |
| 2766 | 258267.4 | 4086215 | 9.30E-11 | 1.35E-09 | 2.38E-08 | 2.38E-08 | 1.32E-08 | 6.22E-08 | 1.41E-11 | 2.05E-10 | 3.71E-09 | 3.71E-09 | 2.04E-09 | 9.68E-09 | 7.67E-12 | 1.11E-10 | 1.65E-09 | 1.65E-09 | 8.17E-10 | 4.24E-09 |
| 2767 | 258291.7 | 4086224 | 9.09E-11 | 1.31E-09 | 2.32E-08 | 2.32E-08 | 1.29E-08 | 6.08E-08 | 1.38E-11 | 2.00E-10 | 3.82E-09 | 3.62E-09 | 1.99E-09 | 9.45E-09 | 7.49E-12 | 1.08E-10 | 1.81E-09 | 1.61E-09 | 7.58E-10 | 4.14E-09 |
| 2768 | 258316 | 4086225 | 8.87E-11 | 1.26E-09 | 2.26E-08 | 2.26E-08 | 1.26E-08 | 5.93E-08 | 1.35E-11 | 1.95E-10 | 3.54E-09 | 3.54E-09 | 1.94E-09 | 9.22E-09 | 7.31E-12 | 1.06E-10 | 1.57E-09 | 1.57E-09 | 7.79E-10 | 4.04E-09 |
| 2769 | 258340.3 | 4086222 | 8.65E-11 | 1.25E-09 | 2.21E-08 | 2.21E-08 | 1.23E-08 | 5.78E-08 | 1.31E-11 | 1.91E-10 | 3.45E-09 | 3.45E-09 | 1.90E-09 | 9.00E-09 | 7.13E-12 | 1.03E-10 | 1.53E-09 | 1.53E-09 | 7.59E-10 | 3.94E-09 |
| 2770 | 256364.6 | 4086221 | 6.43E-11 | 1.22E-09 | 2.15E-08 | 2.15E-08 | 1.20E-08 | 5.64E-08 | 1.28E-11 | 1.86E-10 | 3.38E-09 | 3.36E-09 | 1.85E-09 | 8.77E-09 | 6.95E-12 | 1.00E-10 | 1.50E-09 | 1.50E-09 | 7.40E-10 | 3.84E-09 |
| 2771 | 258388.9 | 4086220 | 8.22E-11 | 1.19E-09 | 2.10E-08 | 2.10E-08 | 1.17E-08 | 5.49E-08 | 1.25E-11 | 1.81E-10 | 3.28E-08 | 3.28E-09 | 1.80E-09 | 8.55E-09 | 6.77E-12 | 9.79E-11 | 1.46E-09 | 1.46E-09 | 7.21E-10 | 3.74E-09 |
| 2772 | 258413.1 | 4086219 | 8.00E-11 | 1.16E-09 | 2.04E-08 | 2.04E-08 | 1.14E-08 | 5.35E-08 | 1.21E-11 | 1.76E-10 | 3.19E-09 | 3.19E-09 | 1.75E-08 | 8.32E-09 | 6.59E-12 | 9.54E-11 | 1.42E-09 | 1.42E-09 | 7.03E-10 | 3.84E-09 |
| 2773 | 257598.3 | 4086446 | 1.18E-10 | 1.71E-09 | 3.01E-08 | 3.01E-08 | 1.68E-08 | 7.89E-08 | 1.79E-11 | 2.60E-10 | 4.70E-09 | 4.70E-09 | 2.59E-09 | 1.23E-08 | 9.72E-12 | 1.41E-10 | 2.09E-09 | 2.09E-09 | 1.04E-09 | 5.37E-09 |
| 2774 | 257576 | 4086438 | 1.21E-10 | 1.74E-09 | 3.08E-08 | 3.03E-08 | 1.72E-08 | 6.06E-08 | 1.83E-11 | 2.66E-10 | 4.81E-09 | 4.81E-09 | 2.64E-09 | 1.25E-08 | 9.94E-12 | 1.44E-10 | 2.14E-09 | 2.14E-09 | 1.06E-09 | 5.49E-09 |
| 2775 | 257553.6 | 4086430 | 1.23E-10 | 1.78E-09 | 3.15E-08 | 3.15E-08 | 1.75E-08 | 8.24E-08 | 1.87E-11 | 2.71E-10 | 4.91E-09 | 4.91E-09 | 2.70E-09 | 1.28E-08 | 1.02E-11 | 1.47E-10 | 2.19E-09 | 2.19E-09 | 1.08E-09 | 5.81E-09 |
| 2776 | 257531.3 | 4086422 | 1.26E-10 | 1.82E-09 | 3.21E-08 | 3.21E-08 | 1.79E-08 | 8.40E-08 | 1.91E-11 | 2.77E-10 | 5.01E-09 | 5.01E-09 | 2.78E-09 | 1.31E-08 | 1.04E-11 | 1.50E-10 | 2.23E-09 | 2.23E-09 | 1.10E-09 | 5.77E-09 |
| 2777 | 257508.9 | 4086414 | 1.28E-10 | 1.85E-09 | 3.27E-08 | 3.27E-08 | 1.82E-08 | 8.57E-08 | 1.94E-11 | 2.82E-10 | 5.11E-09 | 5.11E-09 | 2.81E-09 | 1.33E-08 | 1.06E-11 | 1.53E-10 | 2.27E-09 | 2.27E-09 | 1.13E-09 | 5.83E-09 |
| 2778 | 257486.6 | 4086405 | 1.30E-10 | 1.89E-09 | 3.33E-08 | 3.33E-08 | 1.86E-08 | 8.72E-08 | 1.98E-11 | 2.87E-10 | 5.20E-09 | 5.20E-09 | 2.86E-09 | 1.36E-08 | 1.08E-11 | 1.56E-10 | 2.31E-09 | 2.31E-09 | 1.15E-09 | 5.94E-09 |
| 2779 | 257464.2 | 4086397 | 1.38E-10 | 1.92E-09 | 3.39E-08 | 3.39E-08 | 1.89E-08 | 8.87E-08 | 2.01E-11 | 2.92E-10 | 5.29E-09 | 5.29E-09 | 2.91E-09 | 1.38E-08 | 1.09E-11 | 1.58E-10 | 2.35E-09 | 2.35E-09 | 1.17E-09 | 6.04E-09 |
| 2780 | 257441.9 | 4086389 | 1.35E-10 | 1.95E-09 | 3.44E-08 | 3.44E-08 | 1.92E-08 | 9.01E-08 | 2.05E-11 | 2.97E-10 | 5.38E-09 | 5.38E-09 | 2.96E-09 | 1.40E-08 | 1.11E-11 | 1.61E-10 | 2.39E-09 | 2.39E-09 | 1.18E-09 | 6.14E-09 |
| 2781 | 257419.5 | 4086381 | 1.37E-10 | 1.98E-09 | 3.49E-08 | 3.49E-08 | 1.95E-08 | 9.15E-08 | 2.08E-11 | 3.01E-10 | 5.46E-09 | 5.46E-09 | 3.00E-09 | 1.42E-08 | 1.13E-11 | 1.82E-10 | 2.43E-09 | 2.43E-09 | 1.20E-09 | 6.23E-09 |
| 2782 | 257797.2 | 4086377 | 1.39E-10 | 2.01E-09 | 3.54E-08 | 3.54E-08 | 1.97E-08 | 9.27E-08 | 2.10E-11 | 3.06E-10 | 5.53E-09 | 5.53E-09 | 3.04E-09 | 1.44E-08 | 1.14E-11 | 1.65E-10 | 2.46E-09 | 2.48E-09 | 1.22E-09 | 6.31E-09 |
| 2783 | 257374.9 | 4086385 | 1.40E-10 | 2.03E-09 | 3.59E-08 | 3.59E-08 | 2.00E-08 | 9.39E-08 | 2.13E-11 | 3.09E-10 | 5.60E-09 | 5.60E-09 | 3.08E-09 | 1.46E-08 | 1.16E-11 | 1.67E-10 | 2.49E-09 | 2.49E-09 | 1.25E-09 | 6.39E-09 |
| 2784 | 257752.5 | 4086256 | 1.42E-10 | 2.05E-09 | 3.63E-08 | 3.63E-08 | 2.02E-08 | 9.49E-08 | 2.15E-11 | 3.13E-10 | 5.66E-09 | 5.66E-09 | 3.11E-09 | 1.48E-08 | 1.17E-11 | 1.69E-10 | 2.52E-09 | 2.52E-09 | 1.25E-09 | 6.47E-09 |
| 2785 | 257730.2 | 4086348 | 1.43E-10 | 2.08E-09 | 3.66E-08 | 3.66E-08 | 2.04E-08 | 9.59E-08 | 2.18E-11 | 3.16E-10 | 5.72E-09 | 5.72E-09 | 3.15E-09 | 1.49E-08 | 1.18E-11 | 1.71E-10 | 2.55E-09 | 2.55E-09 | 1.26E-09 | 6.53E-09 |
| 2786 | 257707.8 | 4086340 | 1.45E-10 | 2.10E-09 | 3.70E-08 | 3.70E-08 | 2.06E-08 | 9.69E-08 | 2.20E-11 | 3.19E-10 | 5.78E-09 | 5.78E-09 | 3.18E-09 | 1.51E-08 | 1.19E-11 | 1.73E-10 | 2.57E-09 | 2.57E-09 | 1.27E-09 | 6.60E-09 |
| 2787 | 257385.5 | 4086332 | 1.46E-10 | 2.12E-09 | 3.74E-08 | 3.74E-08 | 2.08E-08 | 9.78E-08 | 2.22E-11 | 3.22E-10 | 5.83E-09 | 5.83E-09 | 3.21E-09 | 1.52E-08 | 1.21E-11 | 1.74E-10 | 2.60E-09 | 2.60E-09 | 1.28E-09 | 6.66E-09 |
| 2788 | 257263.1 | 4086324 | 1.48E-10 | 2.14E-09 | 3.77E-08 | 3.77E-08 | 2.10E-08 | 9.87E-08 | 2.24E-11 | 3.25E-10 | 5.89E-09 | 5.89E-09 | 3.24E-09 | 1.54E-08 | 1.22E-11 | 1.76E-10 | 2.62E-09 | 2.82E-09 | 1.30E-09 | 6.72E-09 |
| 2789 | 257240.8 | 4086316 | 1.49E-10 | 2.15E-09 | 3.80E-08 | 3.80E-08 | 2.12E-08 | 9.96E-08 | 2.26E-11 | 3.28E-10 | 5.94E-09 | 5.94E-09 | 3.27E-09 | 1.55E-08 | 1.23E-11 | 1.78E-10 | 2.64E-09 | 2.64E-09 | 1.31E-09 | 6.78E-09 |
| 2790 | 257218.4 | 4086307 | 1.50E-10 | 2.17E-09 | 3.84E-08 | 3.84E-08 | 2.14E-08 | 1.01E-07 | 2.28E-11 | 3.31E-10 | 5.99E-09 | 5.99E-09 | 3.30E-09 | 1.56E-08 | 1.24E-11 | 1.79E-10 | 2.67E-09 | 2.67E-09 | 1.32E-09 | 6.85E-09 |
| 2791 | 257196.1 | 4086299 | 1.52E-10 | 2.19E-09 | 3.87E-08 | 3.87E-08 | 2.16E-08 | 1.01E-07 | 2.30E-11 | 3.34E-10 | 6.05E-09 | 6.05E-09 | 3.33E-09 | 1.58E-08 | 1.25E-11 | 1.81E-10 | 2.69E-09 | 2.69E-09 | 1.33E-09 | 6.91E-09 |
| 2792 | 257173.7 | 4086291 | 1.53E-10 | 2.21E-09 | 3.91E-08 | 3.91E-08 | 2.18E-08 | 1.02E-07 | 2.32E-11 | 3.37E-10 | 6.10E-09 | 6.10E-09 | 3.36E-09 | 1.59E-08 | 1.26E-11 | 1.82E-10 | 2.72E-09 | 2.77E-09 | 1.54E-09 | 6.97E-09 |
| 2793 | 257151.4 | 4086283 | 1.55E-10 | 2.24E-09 | 3.95E-08 | 3.95E-08 | 2.20E-08 | 1.03E-07 | 2.35E-11 | 3.41E-10 | 6.17E-09 | 6.17E-09 | 3.39E-09 | 1.61E-08 | 1.28E-11 | 1.85E-10 | 2.75E-09 | 2.75E-09 | 1.36E-09 | 7.09E-09 |
| 2794 | 257129 | 4086275 | 1.56E-10 | 2.26E-09 | 3.99E-08 | 3.99E-08 | 2.23E-08 | 1.05E-07 | 2.37E-11 | 3.44E-10 | 6.23E-09 | 6.23E-09 | 3.43E-09 | 1.63E-08 | 1.29E-11 | 1.86E-10 | 2.77E-09 | 2.77E-09 | 1.37E-09 | 7.12E-09 |
| 2795 | 257106.7 | 4086267 | 1.58E-10 | 2.28E-08 | 4.02E-08 | 4.02E-08 | 2.24E-08 | 1.09E-07 | 2.39E-11 | 3.47E-10 | 6.28E-09 | 6.28E-09 | 3.45E-09 | 1.64E-08 | 1.30E-11 | 1.88E-10 | 2.79E-09 | 2.79E-09 | 1.38E-09 | 7.17E-09 |
| 2796 | 257084.3 | 4086258 | 1.59E-10 | 2.29E-09 | 4.05E-08 | 4.05E-08 | 2.26E-08 | 1.06E-07 | 2.41E-11 | 3.49E-10 | 6.32E-09 | 6.32E-09 | 3.48E-09 | 1.65E-08 | 1.31E-11 | 1.89E-10 | 2.81E-09 | 2.81E-09 | 1.39E-09 | 7.22E-09 |
| 2797 | 257062 | 4086250 | 1.59E-10 | 2.31E-09 | 4.07E-08 | 4.07E-08 | 2.27E-08 | 1.07E-07 | 2.42E-11 | 3.51E-10 | 6.36E-09 | 6.36E-09 | 3.50E-09 | 1.66E-08 | 1.31E-11 | 1.90E-10 | 2.83E-09 | 2.83E-09 | 1.40E-09 | 7.26E-09 |
| 2798 | 257039.6 | 4086242 | 1.60E-10 | 2.32E-09 | 4.09E-08 | 4.09E-08 | 2

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2593 | 257211.7 | 4085948 | 2.49E-10 | 3.60E-09 | 6.36E-08 | 6.36E-08 | 3.55E-08 | 1.67E-07 | 3.76E-11 | 5.49E-10 | 9.93E-09 | 9.93E-09 | 5.46E-09 | 2.59E-08 | 2.05E-11 | 2.97E-10 | 4.42E-09 | 4.42E-09 | 2.19E-09 | 1.13E-08 |
| 2594 | 257289.3 | 4085940 | 2.52E-10 | 3.64E-09 | 6.45E-08 | 6.43E-08 | 3.59E-08 | 1.68E-07 | 3.82E-11 | 5.55E-10 | 1.00E-08 | 1.00E-08 | 5.52E-09 | 2.62E-08 | 2.08E-11 | 3.00E-10 | 4.47E-09 | 4.47E-09 | 2.21E-09 | 1.15E-08 |
| 2595 | 257266.9 | 4085932 | 2.54E-10 | 3.68E-09 | 6.50E-08 | 6.50E-08 | 3.62E-08 | 1.70E-07 | 3.86E-11 | 5.60E-10 | 1.01E-08 | 1.01E-08 | 5.58E-09 | 2.65E-08 | 2.10E-11 | 3.03E-10 | 4.51E-09 | 4.51E-09 | 2.23E-09 | 1.16E-08 |
| 2596 | 257244.5 | 4085924 | 2.57E-10 | 3.71E-09 | 6.55E-08 | 6.55E-08 | 3.65E-08 | 1.72E-07 | 3.89E-11 | 5.65E-10 | 1.02E-08 | 1.02E-08 | 5.62E-09 | 2.67E-08 | 2.11E-11 | 3.06E-10 | 4.55E-09 | 4.55E-09 | 2.25E-09 | 1.17E-08 |
| 2597 | 257222.1 | 4085916 | 2.58E-10 | 3.74E-09 | 6.60E-08 | 6.60E-08 | 3.68E-08 | 1.73E-07 | 3.92E-11 | 5.69E-10 | 1.03E-08 | 1.03E-08 | 5.66E-09 | 2.69E-08 | 2.13E-11 | 3.08E-10 | 4.56E-09 | 4.58E-09 | 2.27E-09 | 1.18E-08 |
| 2598 | 257199.6 | 4085907 | 2.39E-10 | 3.75E-09 | 6.63E-08 | 6.63E-08 | 3.69E-08 | 1.73E-07 | 3.94E-11 | 5.72E-10 | 1.03E-08 | 1.03E-08 | 5.69E-09 | 2.70E-08 | 2.14E-11 | 3.09E-10 | 4.60E-09 | 4.60E-09 | 2.26E-09 | 1.18E-08 |
| 2599 | 257177.2 | 4085899 | 2.60E-10 | 3.76E-09 | 6.64E-08 | 6.64E-08 | 3.70E-08 | 1.74E-07 | 3.94E-11 | 5.73E-10 | 1.04E-08 | 1.04E-08 | 5.70E-09 | 2.70E-08 | 2.14E-11 | 3.10E-10 | 4.61E-09 | 4.61E-09 | 2.26E-09 | 1.16E-08 |
| 2600 | 257154.6 | 4085891 | 2.60E-10 | 3.76E-09 | 6.63E-08 | 6.63E-08 | 3.70E-08 | 1.74E-07 | 3.94E-11 | 5.72E-10 | 1.04E-08 | 1.04E-08 | 5.69E-09 | 2.70E-08 | 2.14E-11 | 3.10E-10 | 4.61E-09 | 4.61E-09 | 2.26E-09 | 1.16E-08 |
| 2601 | 257132.4 | 4085883 | 2.59E-10 | 3.74E-09 | 6.61E-08 | 6.61E-08 | 3.69E-08 | 1.73E-07 | 3.93E-11 | 5.70E-10 | 1.03E-08 | 1.03E-08 | 5.68E-09 | 2.69E-08 | 2.13E-11 | 3.09E-10 | 4.59E-09 | 4.59E-09 | 2.27E-09 | 1.18E-08 |
| 2602 | 257110 | 4085875 | 2.58E-10 | 3.73E-09 | 6.58E-08 | 6.58E-08 | 3.67E-08 | 1.72E-07 | 3.91E-11 | 5.68E-10 | 1.03E-08 | 1.03E-08 | 5.65E-09 | 2.68E-08 | 2.12E-11 | 3.07E-10 | 4.57E-09 | 4.57E-09 | 2.26E-09 | 1.17E-08 |
| 2603 | 257087.6 | 4085866 | 2.56E-10 | 3.71E-09 | 6.55E-08 | 6.35E-08 | 3.65E-08 | 1.71E-07 | 3.89E-11 | 5.65E-10 | 1.02E-08 | 1.02E-08 | 5.62E-09 | 2.67E-08 | 2.11E-11 | 3.06E-10 | 4.55E-09 | 4.35E-09 | 2.25E-09 | 1.17E-08 |
| 2604 | 257065.2 | 4085858 | 2.35E-10 | 3.69E-09 | 6.51E-08 | 6.31E-08 | 3.63E-08 | 1.70E-07 | 3.87E-11 | 5.62E-10 | 1.02E-08 | 1.02E-08 | 5.59E-09 | 2.65E-08 | 2.10E-11 | 3.04E-10 | 4.52E-09 | 4.52E-09 | 2.24E-09 | 1.16E-08 |
| 2605 | 257042.8 | 4085850 | 2.33E-10 | 3.67E-09 | 6.47E-08 | 6.47E-08 | 3.61E-08 | 1.69E-07 | 3.85E-11 | 5.56E-10 | 1.01E-08 | 1.01E-08 | 5.56E-09 | 2.64E-08 | 2.09E-11 | 3.02E-10 | 4.50E-09 | 4.50E-09 | 2.23E-09 | 1.15E-08 |
| 2606 | 257020.4 | 4085842 | 2.52E-10 | 3.64E-09 | 6.43E-08 | 6.43E-08 | 3.59E-08 | 1.68E-07 | 3.82E-11 | 5.55E-10 | 1.00E-08 | 1.00E-08 | 5.52E-09 | 2.62E-08 | 2.08E-11 | 3.00E-10 | 4.47E-09 | 4.47E-09 | 2.21E-09 | 1.15E-08 |
| 2607 | 256998 | 4085834 | 2.50E-10 | 3.62E-09 | 6.39E-08 | 6.39E-08 | 3.56E-08 | 1.67E-07 | 3.80E-11 | 5.52E-10 | 9.98E-09 | 9.98E-09 | 5.49E-09 | 2.60E-08 | 2.05E-11 | 2.98E-10 | 4.44E-09 | 4.44E-09 | 2.20E-09 | 1.14E-08 |
| 2608 | 256975.6 | 4085826 | 2.49E-10 | 3.60E-09 | 6.35E-08 | 6.35E-08 | 3.54E-08 | 1.66E-07 | 3.77E-11 | 5.48E-10 | 9.91E-09 | 9.91E-09 | 5.45E-09 | 2.39E-08 | 2.05E-11 | 2.96E-10 | 4.41E-09 | 4.41E-09 | 2.18E-09 | 1.13E-08 |
| 2609 | 258943.2 | 4085796 | 2.50E-10 | 3.62E-09 | 6.40E-08 | 6.40E-08 | 3.57E-08 | 1.67E-07 | 3.80E-11 | 5.52E-10 | 9.99E-09 | 9.99E-09 | 5.49E-09 | 2.61E-08 | 2.06E-11 | 2.99E-10 | 4.44E-09 | 4.44E-09 | 2.20E-09 | 1.14E-08 |
| 2610 | 256933.2 | 4085774 | 2.54E-10 | 3.67E-09 | 6.48E-08 | 6.48E-08 | 3.61E-08 | 1.70E-07 | 3.85E-11 | 5.59E-10 | 1.01E-08 | 1.01E-08 | 5.56E-09 | 2.64E-08 | 2.09E-11 | 3.02E-10 | 4.50E-09 | 4.50E-09 | 2.23E-09 | 1.16E-08 |
| 2611 | 256923.2 | 4085752 | 2.56E-10 | 3.71E-09 | 6.55E-08 | 6.35E-08 | 3.65E-06 | 1.71E-07 | 3.89E-11 | 5.65E-10 | 1.02E-08 | 1.02E-08 | 5.62E-09 | 2.67E-08 | 2.11E-11 | 3.06E-10 | 4.55E-09 | 4.35E-09 | 2.25E-09 | 1.17E-08 |
| 2612 | 256913.2 | 4085731 | 2.58E-10 | 3.73E-09 | 6.59E-08 | 6.59E-08 | 3.67E-08 | 1.72E-07 | 3.91E-11 | 5.68E-10 | 1.05E-08 | 1.03E-08 | 5.65E-09 | 2.68E-08 | 2.13E-11 | 3.07E-10 | 4.58E-09 | 4.58E-09 | 2.26E-09 | 1.17E-08 |
| 2613 | 256903.3 | 4085709 | 2.58E-10 | 3.73E-09 | 6.59E-08 | 6.59E-08 | 3.68E-08 | 1.73E-07 | 3.92E-11 | 5.69E-10 | 1.05E-08 | 1.03E-08 | 5.66E-09 | 2.69E-08 | 2.13E-11 | 3.08E-10 | 4.58E-09 | 4.58E-09 | 2.27E-09 | 1.16E-08 |
| 2614 | 256893.5 | 4085687 | 2.57E-10 | 3.72E-09 | 6.56E-08 | 6.56E-08 | 3.66E-08 | 1.72E-07 | 3.90E-11 | 5.66E-10 | 1.03E-08 | 1.03E-08 | 5.64E-09 | 2.67E-08 | 2.12E-11 | 3.06E-10 | 4.56E-09 | 4.56E-09 | 2.26E-09 | 1.17E-08 |
| 2615 | 256883.3 | 4085666 | 2.54E-10 | 3.68E-09 | 6.50E-08 | 6.50E-08 | 3.62E-08 | 1.70E-07 | 3.86E-11 | 5.61E-10 | 1.01E-08 | 1.01E-08 | 5.58E-09 | 2.65E-08 | 2.10E-11 | 3.03E-10 | 4.31E-09 | 4.31E-09 | 2.23E-09 | 1.16E-08 |
| 2616 | 256873.3 | 4085644 | 2.50E-10 | 3.62E-09 | 6.39E-08 | 6.39E-08 | 3.56E-08 | 1.67E-07 | 3.80E-11 | 5.32E-10 | 9.98E-09 | 9.98E-09 | 5.49E-09 | 2.60E-08 | 2.06E-11 | 2.98E-10 | 4.44E-09 | 4.44E-09 | 2.20E-09 | 1.14E-08 |
| 2617 | 256863.4 | 4085622 | 2.45E-10 | 3.54E-09 | 6.25E-08 | 6.25E-08 | 3.48E-08 | 1.64E-07 | 3.71E-11 | 5.39E-10 | 9.75E-09 | 9.75E-09 | 5.36E-09 | 2.54E-08 | 2.02E-11 | 2.92E-10 | 4.34E-09 | 4.34E-09 | 2.15E-09 | 1.11E-08 |
| 2618 | 256853.4 | 4085601 | 2.37E-10 | 3.43E-09 | 6.06E-08 | 6.06E-08 | 3.38E-08 | 1.59E-07 | 3.60E-11 | 5.23E-10 | 9.47E-09 | 9.47E-09 | 5.20E-09 | 2.47E-08 | 1.96E-11 | 2.83E-10 | 4.21E-09 | 4.21E-09 | 2.08E-09 | 1.08E-08 |
| 2619 | 256843.4 | 4085579 | 2.29E-10 | 3.51E-09 | 5.84E-08 | 5.84E-08 | 3.26E-08 | 1.53E-07 | 3.47E-11 | 5.04E-10 | 9.12E-09 | 9.12E-09 | 5.01E-09 | 2.38E-08 | 1.88E-11 | 2.73E-10 | 4.06E-09 | 4.06E-09 | 2.01E-09 | 1.04E-08 |
| 2620 | 256833.4 | 4085557 | 2.19E-10 | 3.16E-09 | 5.59E-08 | 5.59E-08 | 3.11E-08 | 1.46E-07 | 3.32E-11 | 4.82E-10 | 6.72E-09 | 6.72E-09 | 4.79E-09 | 2.28E-08 | 1.80E-11 | 2.61E-10 | 3.88E-09 | 3.88E-09 | 1.92E-09 | 9.96E-09 |
| 2621 | 256823.4 | 4085536 | 2.08E-10 | 3.00E-09 | 5.30E-08 | 5.30E-08 | 2.96E-08 | 1.39E-07 | 3.15E-11 | 4.58E-10 | 8.28E-09 | 8.28E-09 | 4.55E-09 | 2.16E-08 | 1.71E-11 | 2.48E-10 | 3.68E-09 | 3.68E-09 | 1.82E-09 | 9.46E-09 |
| 2622 | 256813.5 | 4085514 | 1.96E-10 | 2.83E-09 | 5.00E-08 | 5.00E-08 | 2.79E-08 | 1.31E-07 | 2.97E-11 | 4.31E-10 | 7.81E-09 | 7.81E-09 | 4.29E-09 | 2.04E-08 | 1.61E-11 | 2.33E-10 | 3.47E-09 | 3.47E-09 | 1.72E-09 | 8.92E-09 |
| 2623 | 256803.5 | 4085492 | 1.84E-10 | 2.66E-09 | 4.69E-08 | 4.69E-08 | 2.61E-08 | 1.23E-07 | 2.79E-11 | 4.05E-10 | 7.32E-09 | 7.32E-09 | 4.03E-09 | 1.91E-08 | 1.51E-11 | 2.19E-10 | 3.26E-09 | 3.26E-09 | 1.61E-09 | 8.36E-09 |
| 2624 | 256793.5 | 4085471 | 1.71E-10 | 2.48E-09 | 4.38E-08 | 4.38E-08 | 2.44E-08 | 1.15E-07 | 2.60E-11 | 3.78E-10 | 6.83E-09 | 6.83E-09 | 3.76E-09 | 1.78E-08 | 1.41E-11 | 2.04E-10 | 3.04E-09 | 3.04E-09 | 1.51E-09 | 7.80E-09 |
| 2625 | 256783.5 | 4085449 | 1.60E-10 | 2.51E-09 | 4.07E-08 | 4.07E-08 | 2.27E-08 | 1.07E-07 | 2.42E-11 | 3.52E-10 | 6.36E-09 | 6.36E-09 | 3.50E-09 | 1.66E-08 | 1.52E-11 | 1.90E-10 | 2.83E-09 | 2.83E-09 | 1.40E-09 | 7.27E-09 |
| 2626 | 256773.5 | 4085427 | 1.48E-10 | 2.15E-09 | 3.79E-08 | 3.79E-08 | 2.11E-08 | 9.93E-08 | 2.25E-11 | 3.27E-10 | 5.92E-09 | 5.92E-09 | 3.26E-09 | 1.54E-08 | 1.22E-11 | 1.77E-10 | 2.63E-09 | 2.63E-09 | 1.30E-09 | 6.76E-09 |
| 2627 | 256763.6 | 4085406 | 1.38E-10 | 2.00E-09 | 3.54E-08 | 3.54E-08 | 1.97E-08 | 9.26E-08 | 2.10E-11 | 3.05E-10 | 5.52E-09 | 5.52E-09 | 3.04E-09 | 1.44E-08 | 1.14E-11 | 1.65E-10 | 2.46E-09 | 2.46E-09 | 1.22E-09 | 6.31E-09 |
| 2628 | 256753.6 | 4085384 | 1.30E-10 | 1.87E-09 | 3.31E-08 | 3.31E-08 | 1.65E-08 | 8.67E-08 | 1.97E-11 | 2.86E-10 | 5.17E-09 | 5.17E-09 | 2.84E-09 | 1.35E-08 | 1.07E-11 | 1.55E-10 | 2.30E-09 | 2.30E-09 | 1.14E-09 | 5.90E-09 |
| 2629 | 256743.6 | 4085362 | 1.22E-10 | 1.77E-09 | 3.12E-08 | 3.12E-08 | 1.74E-08 | 8.16E-08 | 1.85E-11 | 2.69E-10 | 4.87E-09 | 4.87E-09 | 2.68E-09 | 1.27E-08 | 1.01E-11 | 1.46E-10 | 2.17E-09 | 2.17E-09 | 1.07E-09 | 5.56E-09 |
| 2630 | 256733.6 | 4085341 | 1.16E-10 | 1.67E-09 | 2.95E-08 | 2.95E-08 | 1.65E-08 | 7.74E-08 | 1.76E-11 | 2.55E-10 | 4.61E-09 | 4.61E-09 | 2.54E-09 | 1.20E-08 | 9.54E-12 | 1.38E-10 | 2.03E-09 | 2.05E-09 | 1.02E-09 | 5.27E-09 |
| 2631 | 256713.7 | 4085319 | 1.10E-10 | 1.60E-09 | 2.82E-08 | 2.82E-08 | 1.57E-08 | 7.37E-08 | 1.67E-11 | 2.43E-10 | 4.40E-09 | 4.40E-09 | 2.42E-09 | 1.15E-08 | 9.09E-12 | 1.31E-10 | 1.96E-09 | 1.96E-09 | 9.69E-10 | 5.02E-09 |
| 2632 | 256713.7 | 4085297 | 1.06E-10 | 1.53E-09 | 2.70E-08 | 2.70E-08 | 1.51E-08 | 7.07E-08 | 1.60E-11 | 2.53E-10 | 4.22E-09 | 4.22E-09 | 2.32E-09 | 1.10E-08 | 8.72E-12 | 1.26E-10 | 1.88E-09 | 1.88E-09 | 9.29E-10 | 4.82E-09 |
| 2633 | 256703.7 | 4085276 | 1.02E-10 | 1.47E-09 | 2.60E-08 | 2.60E-08 | 1.45E-08 | 6.81E-08 | 1.55E-11 | 2.24E-10 | 4.06E-09 | 4.06E-09 | 2.23E-09 | 1.06E-08 | 8.39E-12 | 1.21E-10 | 1.81E-09 | 1.81E-09 | 6.94E-10 | 4.64E-09 |
| 2634 | 256693.7 | 4085254 | 9.83E-11 | 1.42E-09 | 2.51E-08 | 2.51E-08 | 1.40E-08 | 6.58E-08 | 1.49E-11 | 2.17E-10 | 3.92E-09 | 3.92E-09 | 2.16E-09 | 1.02E-08 | 6.11E-12 | 1.17E-10 | 1.74E-09 | 1.74E-09 | 6.64E-10 | 4.48E-09 |
| 2635 | 256683.7 | 4085232 | 9.53E-11 | 1.38E-09 | 2.43E-08 | 2.43E-08 | 1.36E-08 | 6.57E-08 | 1.45E-11 | 2.10E-10 | 3.80E-09 | 3.80E-09 | 2.05E-09 | 9.91E-09 | 7.65E-12 | 1.14E-10 | 1.69E-09 | 1.69E-09 | 6.57E-10 | 4.34E-09 |
| 2636 | 256673.8 | 4085211 | 9.26E-11 | 1.34E-09 | 2.37E-08 | 2.37E-08 | 1.32E-08 | 6.19E-08 | 1.41E-11 | 2.04E-10 | 3.69E-09 | 3.69E-09 | 2.03E-09 | 9.63E-09 | 7.63E-12 | 1.10E-10 | 1.64E-09 | 1.64E-09 | 6.13E-10 | 4.22E-09 |
| 2637 | 257603 | 4086055 | 2.07E-10 | 3.00E-09 | 5.29E-08 | 5.29E-08 | 2.95E-08 | 1.38E-07 | 3.14E-11 | 4.56E-10 | 8.26E-09 | 6.26E-09 | 4.54E-09 | 2.15E-08 | 1.71E-11 | 2.47E-10 | 3.67E-09 | 3.67E-09 | 1.82E-09 | 9.43E-09 |
| 2638 | 257627.5 | 4086054 | 2.06E-10 | 2.98E-09 | 5.26E-08 | 5.26E-08 | 2.93E-08 | 1.38E-07 | 3.12E-11 | 4.54E-10 | 6.21E-09 | 6.21E-09 | 4.51E-09 | 2.14E-08 | 1.70E-11 | 2.45E-10 | 3.65E-09 | 3.65E-09 | 1.81E-09 | 9.36E-09 |
| 2639 | 257651.6 | 4086053 | 2.04E-10 | 2.96E-09 | 5.22E-08 | 5.22E-08 | 2.91E-08 | 1.57E-07 | 3.10E-11 | 4.50E-10 | 8.15E-09 | 6.15E-09 | 4.48E-09 | 2.13E-08 | 1.68E-11 | 2.44E-10 | 3.63E-09 | 3.63E-08 | 1.79E-09 | 9.51E-09 |
| 2640 | 257675.8 | 4086051 | 2.02E-10 | 2.93E-09 | 5.17E-08 | 5.17E-08 | 2.88E-08 | 1.35E-07 | 3.07E-11 | 4.46E-10 | 8.07E-09 | 6.07E-09 | 4.44E-09 | 2.11E-08 | 1.67E-11 | 2.41E-10 | 3.59E-09 | 3.59E-09 | 1.78E-09 | 9.22E-09 |
| 2641 | 257700.1 | 4086050 | 2.00E-10 | 2.90E-09 | 5.11E-08 | 5.11E-08 | 2.85E-08 | 1.34E-07 | 3.04E-11 | 4.41E-10 | 7.98E-09 | 7.98E-09 | 4.39E-09 | 2.08E-08 | 1.65E-11 | 2.39E-10 | 3.35E-09 | 3.55E-09 | 1.76E-09 | 9.12E-09 |
| 2642 | 257724.4 | 4086049 | 1.98E-10 | 2.86E-09 | 5.05E-08 | 5.05E-08 | 2.81E-08 | 1.52E-07 | 3.00E-11 | 4.35E-10 | 7.88E-09 | 7.88E-09 | 4.33E-09 | 2.06E-08 | 1.63E-11 | 2.56E-10 | 3.31E-09 | 3.51E-09 | 1.74E-09 | 9.00E-09 |
| 2643 | 257748.7 | 4086048 | 1.95E-10 | 2.81E-09 | 4.97E-08 | 4.97E-08 | 2.77E-08 | 1.30E-07 | 2.95E-11 | 4.29E-10 | 7.76E-09 | 7.76E-09 | 4.26E-09 | 2.02E-08 | 1.60E-11 | 2.52E-10 | 3.45E-09 | 3.45E-09 | 1.71E-09 | 8.86E-09 |
| 2644 | 257773 | 4086047 | 1.91E-10 | 2.76E-09 | 4.88E-08 | 4.88E-08 | 2.72E-08 | 1.28E-07 | 2.90E-11 | 4.21E-10 | 7.62E-09 | 7.62E-09 | 4.19E-09 | 1.99E-08 | 1.58E-11 | 2.28E-10 | 3.59E-09 | 3.39E-09 | 1.68E-09 | 6.70E-09 |
| 2645 | 257797.2 | 4086046 | 1.87E-10 | 2.71E-09 | 4.79E-08 | 4.79E-08 | 2.67E-08 | 1.25E-07 | 2.84E-11 | 4.13E-10 | 7.47E-09 | 7.47E-09 | 4.11E-09 | 1.95E-08 | 1.54E-11 | 2.23E-10 | 3.33E-09 | 3.53E-09 | 1.63E-09 | 6.53E-09 |
| 2646 | 257821.5 | 4086045 | 1.83E-10 | 2.65E-09 | 4.69E-08 | 4.69E-08 | 2.61E-08 | 1.23E-07 | 2.78E-11 | 4.04E-10 | 7.32E-09 | 7.32E-09 | 4.02E-09 | 1.91E-08 | 1.31E-11 | 2.19E-10 | 3.25E-09 | 3.25E-09 | 1.61E-09 | 6.35E-09 |
| 2647 | 257845.6 | 4086044 | 1.79E-10 | 2.59E-09 | 4.58E-08 | 4.38E-08 | 2.55E-08 | 1.20E-07 | 2.72E-11 | 3.95E-10 | 7.15E-09 | 7.15E-09 | 3.93E-09 | 1.67E-08 | 1.48E-11 | 2.14E-10 | 3.16E-09 | 3.18E-09 | 1.57E-09 | 6.17E-09 |
| 2648 | 257870.1 | 4086043 | 1.75E-10 | 2.53E-09 | 4.48E-08 | 4.48E-08 | 2.50E-08 | 1.17E-07 | 2.66E-11 | 3.86E-10 | 6.99E-09 | 6.99E-09 | 3.84E-09 | 1.82E-08 | 1.44E-11 | 2.09E-10 | 3.11E-09 | 3.11E-09 | 1.54E-09 | 7.98E-09 |
| 2649 | 257894.4 | 4086042 | 1.71E-10 | 2.48E-09 | 4.57E-08 | 4.57E-08 | 2.44E-08 | 1.15E-07 | 2.60E-11 | 3.77E-10 | 6.83E-09 | 6.63E-09 | 3.75E-09 | 1.78E-08 | 1.41E-11 | 2.04E-10 | 3.04E-09 | 3.04E-09 | 1.50E-09 | 7.80E-09 |
| 2650 | 257918.7 | 4086041 | 1.68E-10 | 2.42E-09 | 4.28E-08 | 4.28E-08 | 2.39E-08 | 1.12E-07 | 2.54E-11 | 3.69E-10 | 6.68E-09 | 6.68E-09 | 3.67E-09 | 1.74E-08 | 1.38E-11 | 2.00E-10 | 2.97E-09 | 2.97E-09 | 1.47E-09 | 7.63E-09 |
| 2651 | 257942.9 | 4086040 | 1.64E-10 | 2.37E-09 | 4.19E-08 | 4.19E-08 | 2.34E-08 | 1.10E-07 | 2.49E-11 | 3.61E-10 | 6.54E-09 | 6.54E-09 | 3.60E-09 | 1.71E-08 | 1.35E-11 | 1.96E-10 | 2.91E-09 | 2.91E-09 | 1.44E-09 | 7.47E-09 |
| 2652 | 257967.2 | 4086039 | 1.61E-10 | 2.33E-09 | 4.11E-08 | 4.11E-08 | 2.29E-08 | 1.08E-07 | 2.44E-11 | 3.54E-10 | 6.41E-09 | 6.41E-09 | 3.53E-09 | 1.67E-08 | 1.53E-11 | 1.92E-10 | 2.85E-09 | 2.85E-09 | 1.41E-09 | 7.33E-09 |
| 2653 | 257991.5 | 4086038 | 1.58E-10 | 2.28E-09 | 4.03E-08 | 4.03E-08 | 2.25E-08 | 1.06E-07 | 2.40E-11 | 3.48E-10 | 6.30E-09 | 6.30E-09 | 3.46E-09 | 1.64E-08 | 1.30E-11 | 1.88E-10 | 2.80E-09 | 2.80E-09 | 1.39E-09 | 7.19E-09 |
| 2654 | 258015.6 | 4086036 | 1.55E-10 | 2.24E-09 | 3.96E-08 | 3.96E-08 | 2.21E-08 | 1.04E-07 | 2.35E-11 | 3.42E-10 | 6.19E-09 | 6.19E-09 | 3.40E-09 | 1.61E-08 | 1.26E-11 | 1.85E-10 | 2.75E-09 | 2.79E-09 | 1.36E-09 | 7.07E-09 |
| 2655 | 258040.1 | 4086035 | 1.52E-10 | 2.20E-09 | 3.89E-08 | 3.89E-08 | 2.17E-08 | 1.02E-07 | 2.31E-11 | 3.36E-10 | 6.08E-09 | 6.08E-09 | 3.34E-09 | 1.59E-08 | 1.26E-11 | 1.82E-10 | 2.70E-09 | 2.70E-09 | 1.34E-09 | 6.94E-09 |
| 2656 | 258064.3 | 4086034 | 1.50E-10 | 2.16E-09 | 3.82E-08 | 3.82E-08 | 2.15E-08 | 1.00E-07 | 2.27E-11 | 3.30E-10 | 5.97E-09 | 5.97E-09 | 3.28E-09 | 1.56E-08 | 1.23E-11 | 1.78E-10 | 2.65E-09 | 2.65E-09 | 1.31E-09 | 6.61E-09 |
| 2657 | 258088.6 | 4086033 | 1.47E-10 | 2.12E-09 | 3.75E-08 | 3.75E-08 | 2.09E-08 | 9.81E-08 | 2.23E-11 | 3.25E-10 | 5.85E-09 | 5.85E-09 | 3.22E-09 | 1.53E-08 | 1.21E-11 | 1.75E-10 | 2.60E-09 | 2.60E-09 | 1.29E-09 | 6.68E-09 |
| 2658 | 258112.9 | 4086032 | 1.44E-10 | 2.08E-09 | 3.67E-08 | 3.67E-08 | 2.04E-08 | 9.60E-08 | 2.18E-11 | 3.16E-10 | 5.72E-09 | 5.72E-09 | 3.15E-09 | 1.49E-08 | 1.16E-11 | 1.71E-10 | 2.35E-09 | 2.55E-09 | 1.26E-09 | 6.54E-09 |
| 2659 | 258137.2 | 4086031 | 1.40E-10 | 2.03E-09 | 3.58E-08 | 3.58E-08 | 2.00E-08 | 9.37E-08 | 2.13E-11 | 3.09E-10 | 5.59E-09 | 5.59E-09 | 3.07E-09 | 1.46E-08 | 1.16E-11 | 1.67E-10 | 2.49E-09 | 2.49E-09 | 1.23E-09 | 6.38E-09 |
| 2660 | 258161.5 | 4086030 | 1.57E-10 | 1.98E-09 | 3.49E-08 | 3.49E-08 | 1.95E-08 | 9.14E-08 | 2.07E-11 | 3.01E-10 | 5.45E-09 | 5.45E-09 | 3.00E-09 | 1.42E-08 | 1.13E-11 | 1.63E-10 | 2.42E-09 | 2.42E-09 | 1.20E-09 | 6.22E-09 |
| 2661 | 258185.8 | 4086029 | 1.33E-10 | 1.92E-08 | 3.40E-08 | 3.40E-08 | 1.89E-08 | 8.89E-08 | 2.02E-11 | 2.93E-10 | 5.30E-09 | 5.30E-09 | 2.92E-09 | 1.38E-08 | 1.10E-11 | 1.59E-10 | 2.36E-09 | 2.36E-09 | 1.17E-09 | 6.06E-09 |
| 2662 | 258210 | 4086028 | 1.29E-10 | 1.87E-09 | 3.30E-08 | 3.30E-08 | 1.84E-08 | 8.64E-08 | 1.96E-11 | 2.85E-10 | 5.16E-09 | 5.16E-09 | 2.83E-09 | 1.35E-08 | 1.07E-11 | 1.54E-10 | 2.29E-09 | 2.29E-09 | 1.14E-09 | 5.89E-09 |
| 2663 | 258234.3 | 4086027 | 1.26E-10 | 1.82E-09 | 3.21E-08 | 3.21E-08 | 1.79E-08 | 8.40E-08 | 1.91E-11 | 2.77E-10 | 5.01E-09 | 5.01E-09 | 2.75E-09 | 1.31E-08 | 1.04E-11 | 1.50E-10 | 2.23E-09 | 2.23E-09 | 1.10E-09 | 5.72E-09 |
| 2664 | 258256.6 | 4086026 | 1.22E-10 | 1.76E-09 | 3.12E-08 | 3.12E-08 | 1.74E-08 | 8.16E-08 | 1.85E-11 | 2.69E-10 | 4.86E-09 | 4.66E-09 | 2.67E-09 | 1.27E-08 | 1.01E-11 | 1.45E-10 | 2.16E-09 | 2.16E-09 | 1.07E-09 | 5.56E-09 |
| 2665 | 258262.9 | 4085025 | 1.16E-10 | 1.71E-09 | 3.02E-08 | 3.02E-08 | 1.69E-08 | 7.92E-08 | 1.80E-11 | 2.61E-10 | 4.72E-09 | 4.72E-09 | 2.60E-09 | 1.23E-08 | 9.76E-12 | 1.41E-10 | 2.10E-09 | 2.10E-09 | 1.04E-09 | 5.39E-09 |
| 2666 | 258307.2 | 4085024 | 1.15E-10 | 1.66E-09 | 2.93E-08 | 2.93E-08 | 1.64E-08 | 7.68E-08 | 1.74E-11 | 2.53E-10 | 4.58E-09 | 4.58E-09 | 2.52E-09 | 1.20E-08 | 9.47E-12 | 1.37E-10 | 2.04E-09 | 2.04E-09 | 1.01E-09 | 5.23E-09 |
| 2667 | 258331.4 | 4086022 | 1.11E-10 | 1.61E-09 | 2.85E-08 | 2.85E-08 | 1.59E-08 | 7.45E-08 | 1.69E-11 | 2.46E-10 | 4.44E-09 | 4.44E-09 | 2.44E-09 | 1.16E-08 | 9.18E-12 | 1.33E-10 | 1.93E-09 | 1.93E-09 | 9.79E-10 | 5.07E-09 |
| 2668 | 258355.7 | 4086021 | 1.08E-10 | 1.56E-09 | 2.76E-08 | 2.76E-08 | 1.54E-08 | 7.22E-08 | 1.64E-11 | 2.38E-10 | 4.31E-09 | 4.31E-09 | 2.37E-09 | 1.12E-08 | 8.90E-12 | 1.29E-10 | 1.92E-09 | 1.92E-09 | 9.49E-10 | 4.92E-09 |
| 2669 | 258380 | 4086020 | 1.05E-10 | 1.51E-09 | 2.67E-08 | 2.67E-08 | 1.49E-08 | 7.00E-08 | 1.59E-11 | 2.31E-10 | 4.16E-09 | 4.16E-09 | 2.30E-09 | 1.09E-08 | 8.63E-12 | 1.25E-10 | 1.86E-09 | 1.86E-09 | 9.20E-10 | 4.77E-09 |
| 2670 | 258404.3 | 4086019 | 1.02E-10 | 1.47E-09 | 2.59E-08 | 2.59E-08 | 1.45E-08 | 6.79E-08 | 1.54E-11 | 2.24E-10 | 4.05E-09 | 4.05E-09 | 2.23E-09 | 1.06E-08 | 8.37E-12 | 1.21E-10 | 1.80E-09 | 1.80E-09 | 8.92E-10 | 4.62E-09 |
| 2671 | 257589.1 | 4086246 | 1.55E-10 | 2.24E-09 | 3.95E-08 | 3.95E-08 | 2.20E-08 | 1.03E-07 | 2.35E-11 | 3.41E-10 | 6.16E-09 | 6.16E-09 | 3.39E-09 | 1.61E-08 | 1.27E-11 | 1.84E-10 | 2.74E-09 | 2.74E-09 | 1.36E-09 | 7.04E-09 |
| 2672 | 257566.5 | 4086238 | 1.58E-10 | 2.28E-09 | 4.03E-08 | 4.03E-08 | 2.25E-08 | 1.06E-07 | 2.40E-11 | 3.48E-10 | 6.29E-09 | 6.29E-09 | 3.46E-09 | 1.64E-08 | 1.30E-11 | 1.88E-10 | 2.80E-09 | 2.80E-09 | 1.39E-09 | 7.19E-09 |
| 2673 | 257543.6 | 4086230 | 1.61E-10 | 2.33E-09 | 4.11E-08 | 4.11E-08 | 2.29E-08 | 1.08E-07 | 2.44E-11 | 3.54E-10 | 6.41E-09 | 6.41E-09 | 3.53E-09 | 1.67E-08 | 1.53E-11 | 1.92E-10 | 2.85E-09 | 2.85E-09 | 1.41E-09 | 7.33E-09 |
| 2674 | 257521.1 | 4086221 | 1.64E-10 | 2.37E-09 | 4.18E-08 | 4.18E-08 | 2.33E-08 | 1.10E-07 | 2.49E-11 | 3.61E-10 | 6.53E-09 | 6.53E-09 | 3.59E-09 | 1.70E-08 | 1.55E-11 | 1.95E-10 | 2.91E-09 | 2.91E-09 | 1.44E-09 | 7.46E-09 |
| 2675 | 257498.4 | 4086213 | 1.67E-10 | 2.41E-09 | 4.25E-08 | 4.25E-08 | 2.37E-08 | 1.11E-07 | 2.53E-11 | 3.67E-10 | 6.64E-09 | 6.64E-09 | 3.65E-09 | 1.73E-08 | 1.57E-11 | 1.99E-10 | 2.98E-09 | 2.96E-09 | 1.46E-09 | 7.39E-09 |
| 2676 | 257475.7 | 4086205 | 1.69E-10 | 2.45E-09 | 4.32E-08 | 4.32E-08 | 2.41E-08 | 1.13E-07 | 2.57E-11 | 3.73E-10 | 6.75E-09 | 6.75E-09 | 3.71E-09 | 1.76E-08 | 1.39E-11 | 2.02E-10 | 3.00E-09 | 3.00E-09 | 1.49E-09 | 7.71E-09 |
| 2677 | 257453 | 4086196 | 1.72E-10 | 2.48E-09 | 4.38E-08 | 4.38E-08 | 2.44E-08 | 1.15E-07 | 2.61E-11 | 3.78E-10 | 6.85E-09 | 6.85E-09 | 3.76E-09 | 1.79E-08 | 1.42E-11 | 2.05E-10 | 3.05E-09 | 3.05E-09 | 1.51E-09 | 7.82E-09 |
| 2678 | 257430.3 | 4086188 | 1.74E-10 | 2.52E-09 | 4.45E-08 | 4.45E-08 | 2.48E-08 | 1.16E-07 | 2.64E-11 | 3.83E-10 | 6.94E-09 | 6.94E-09 | 3.82E-09 | 1.81E-08 | 1.43E-11 | 2.07E-10 | 3.09E-09 | 3.09E-09 | 1.53E-09 | 7.93E-09 |
| 2679 | 257407.6 | 4086180 | 1.76E-10 | 2.55E-09 | 4.50E-08 | 4.50E-08 | 2.51E-08 | 1.16E-07 | 2.67E-11 | 3.88E-10 | 7.03E-09 | 7.03E-09 | 3.86E-09 | 1.83E-08 | 1.45E-11 | 2.10E-10 | 3.13E-09 | 3.13E-09 | 1.55E-09 | 6.03E-09 |
| 2680 | 257384.9 | 4086172 | 1.78E-10 | 2.58E-09 | 4.55E-08 | 4.55E-08

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2475 | 257735.4 | 4085749 | 3.77E-10 | 5.45E-09 | 9.63E-08 | 9.63E-08 | 5.37E-08 | 2.52E-07 | 5.72E-11 | 8.31E-10 | 1.50E-08 | 1.50E-08 | 6.27E-09 | 5.92E-08 | 3.11E-11 | 4.50E-10 | 6.69E-09 | 6.69E-09 | 3.31E-09 | 1.72E-08 |
| 2476 | 257759.7 | 4085747 | 3.73E-10 | 5.40E-09 | 9.53E-08 | 9.53E-08 | 5.32E-08 | 2.50E-07 | 5.67E-11 | 6.23E-10 | 1.49E-08 | 1.49E-08 | 8.16E-09 | 5.88E-08 | 5.03E-11 | 4.45E-10 | 6.62E-09 | 6.62E-09 | 3.28E-09 | 1.70E-08 |
| 2477 | 257784 | 4085746 | 3.69E-10 | 5.34E-09 | 9.42E-08 | 9.42E-08 | 5.25E-08 | 2.47E-07 | 5.60E-11 | 6.13E-10 | 1.47E-08 | 1.47E-08 | 8.09E-09 | 5.84E-08 | 3.04E-11 | 4.40E-10 | 6.55E-09 | 6.55E-09 | 3.24E-09 | 1.68E-08 |
| 2478 | 257808.2 | 4085745 | 3.63E-10 | 5.26E-09 | 9.28E-08 | 9.28E-08 | 5.17E-08 | 2.43E-07 | 5.52E-11 | 8.01E-10 | 1.45E-08 | 1.45E-08 | 7.97E-09 | 3.78E-08 | 3.00E-11 | 4.33E-10 | 6.45E-09 | 6.43E-09 | 3.19E-09 | 1.66E-08 |
| 2479 | 257832.5 | 4085744 | 3.57E-10 | 5.16E-09 | 9.11E-08 | 9.11E-08 | 5.08E-08 | 2.39E-07 | 5.41E-11 | 7.86E-10 | 1.42E-08 | 1.42E-08 | 7.62E-09 | 3.71E-08 | 2.94E-11 | 4.25E-10 | 6.33E-09 | 6.33E-09 | 3.13E-09 | 1.62E-08 |
| 2480 | 257856.6 | 4085743 | 3.51E-10 | 5.07E-09 | 6.96E-08 | 8.96E-08 | 4.99E-08 | 2.35E-07 | 5.32E-11 | 7.73E-10 | 1.40E-08 | 1.40E-08 | 7.69E-09 | 3.65E-08 | 2.89E-11 | 4.18E-10 | 6.22E-09 | 6.22E-09 | 3.08E-09 | 1.60E-08 |
| 2481 | 237881.1 | 4085742 | 3.45E-10 | 4.99E-09 | 8.80E-08 | 8.80E-08 | 4.91E-08 | 2.30E-07 | 5.23E-11 | 7.60E-10 | 1.37E-08 | 1.37E-08 | 7.56E-09 | 3.59E-08 | 2.84E-11 | 4.11E-10 | 6.12E-09 | 6.12E-09 | 3.03E-09 | 1.57E-08 |
| 2482 | 257905.4 | 4085741 | 3.38E-10 | 4.89E-09 | 8.64E-08 | 8.84E-08 | 4.61E-08 | 2.26E-07 | 5.13E-11 | 7.45E-10 | 1.33E-08 | 1.35E-08 | 7.41E-09 | 3.52E-08 | 2.79E-11 | 4.03E-10 | 6.00E-09 | 6.00E-09 | 2.97E-09 | 1.54E-08 |
| 2483 | 257979.7 | 4085740 | 3.31E-10 | 4.78E-09 | 6.43E-08 | 8.43E-08 | 4.71E-08 | 2.21E-07 | 5.02E-11 | 7.29E-10 | 1.32E-08 | 1.32E-08 | 7.23E-09 | 3.44E-08 | 2.73E-11 | 3.94E-10 | 5.87E-09 | 5.87E-09 | 2.91E-09 | 1.51E-08 |
| 2484 | 257953.9 | 4085739 | 3.23E-10 | 4.67E-09 | 6.25E-08 | 6.25E-08 | 4.60E-08 | 2.16E-07 | 4.90E-11 | 7.11E-10 | 1.29E-08 | 1.29E-08 | 7.08E-09 | 3.36E-08 | 2.66E-11 | 3.85E-10 | 5.73E-09 | 5.73E-09 | 2.84E-09 | 1.47E-08 |
| 2485 | 237978.2 | 4085738 | 3.14E-10 | 4.34E-09 | 6.03E-08 | 8.03E-08 | 4.47E-08 | 2.10E-07 | 4.77E-11 | 6.92E-10 | 1.23E-08 | 1.23E-08 | 6.89E-09 | 5.27E-08 | 2.59E-11 | 3.75E-10 | 5.58E-09 | 5.58E-09 | 2.76E-09 | 1.43E-08 |
| 2486 | 258002.5 | 4085737 | 3.05E-10 | 4.41E-09 | 7.80E-08 | 7.80E-08 | 4.35E-08 | 2.04E-07 | 4.63E-11 | 6.73E-10 | 1.22E-08 | 1.22E-08 | 6.69E-09 | 5.18E-08 | 2.52E-11 | 5.64E-10 | 5.42E-09 | 5.42E-09 | 2.68E-09 | 1.39E-08 |
| 2487 | 258026.8 | 4085736 | 2.96E-10 | 4.28E-09 | 7.56E-08 | 7.36E-08 | 4.22E-08 | 1.98E-07 | 4.49E-11 | 6.52E-10 | 1.18E-08 | 1.18E-08 | 6.49E-09 | 3.08E-08 | 2.44E-11 | 3.53E-10 | 5.25E-09 | 5.25E-09 | 2.60E-09 | 1.33E-08 |
| 2488 | 258051.1 | 4085735 | 2.87E-10 | 4.15E-09 | 7.33E-08 | 7.33E-08 | 4.09E-08 | 1.92E-07 | 4.35E-11 | 6.32E-10 | 1.14E-08 | 1.14E-08 | 6.29E-09 | 2.98E-08 | 2.37E-11 | 3.42E-10 | 5.09E-09 | 5.09E-09 | 2.52E-09 | 1.31E-08 |
| 2489 | 258075.3 | 4085734 | 2.78E-10 | 4.02E-09 | 7.10E-08 | 7.10E-08 | 3.96E-08 | 1.86E-07 | 4.22E-11 | 6.13E-10 | 1.11E-08 | 1.11E-08 | 6.10E-09 | 2.89E-08 | 2.29E-11 | 3.31E-10 | 4.93E-09 | 4.93E-09 | 2.44E-09 | 1.27E-08 |
| 2490 | 258099.6 | 4085732 | 2.69E-10 | 3.90E-09 | 6.88E-08 | 6.88E-08 | 3.84E-08 | 1.80E-07 | 4.09E-11 | 5.94E-10 | 1.07E-08 | 1.07E-08 | 5.91E-09 | 2.80E-08 | 2.22E-11 | 3.21E-10 | 4.78E-09 | 4.78E-09 | 2.37E-09 | 1.23E-08 |
| 2491 | 258125.9 | 4085731 | 2.61E-10 | 3.77E-09 | 6.66E-08 | 6.66E-08 | 3.72E-08 | 1.74E-07 | 3.96E-11 | 5.75E-10 | 1.04E-08 | 1.04E-08 | 5.72E-09 | 2.71E-08 | 2.15E-11 | 3.11E-10 | 4.63E-09 | 4.63E-09 | 2.29E-09 | 1.19E-08 |
| 2492 | 258148.2 | 4085730 | 2.53E-10 | 3.65E-09 | 6.45E-08 | 6.45E-08 | 3.60E-08 | 1.69E-07 | 3.83E-11 | 5.56E-10 | 1.01E-08 | 1.01E-08 | 5.54E-09 | 2.63E-08 | 2.08E-11 | 3.01E-10 | 4.48E-09 | 4.48E-09 | 2.22E-09 | 1.15E-08 |
| 2493 | 258172.5 | 4085729 | 2.44E-10 | 3.53E-09 | 6.23E-08 | 6.23E-08 | 3.47E-08 | 1.63E-07 | 3.70E-11 | 5.37E-10 | 9.73E-09 | 9.75E-09 | 5.35E-09 | 2.54E-08 | 2.01E-11 | 2.91E-10 | 4.33E-09 | 4.33E-09 | 2.14E-09 | 1.11E-08 |
| 2494 | 258196.6 | 4085728 | 2.35E-10 | 3.40E-09 | 6.01E-08 | 6.01E-08 | 3.35E-08 | 1.57E-07 | 3.57E-11 | 5.18E-10 | 9.38E-09 | 9.38E-09 | 5.16E-09 | 2.45E-08 | 1.94E-11 | 2.80E-10 | 4.17E-09 | 4.17E-09 | 2.07E-09 | 1.07E-08 |
| 2495 | 258221 | 4085727 | 2.26E-10 | 3.27E-09 | 5.78E-08 | 5.78E-08 | 3.22E-08 | 1.51E-07 | 3.43E-11 | 4.98E-10 | 9.02E-09 | 9.02E-09 | 4.96E-09 | 2.35E-08 | 1.86E-11 | 2.70E-10 | 4.01E-09 | 4.01E-09 | 1.99E-09 | 1.03E-08 |
| 2496 | 258245.3 | 4085726 | 2.17E-10 | 3.14E-09 | 5.55E-08 | 5.55E-08 | 3.09E-08 | 1.45E-07 | 3.30E-11 | 4.79E-10 | 8.66E-09 | 8.66E-09 | 4.76E-09 | 2.26E-08 | 1.79E-11 | 2.59E-10 | 3.85E-09 | 3.85E-09 | 1.91E-09 | 9.89E-09 |
| 2497 | 258269.6 | 4085725 | 2.08E-10 | 3.01E-09 | 5.32E-08 | 5.32E-08 | 2.96E-08 | 1.39E-07 | 3.16E-11 | 4.59E-10 | 8.30E-09 | 8.30E-09 | 4.56E-09 | 2.17E-08 | 1.72E-11 | 2.48E-10 | 3.69E-09 | 3.69E-09 | 1.83E-09 | 9.48E-09 |
| 2498 | 258293.9 | 4085724 | 1.99E-10 | 2.88E-09 | 5.09E-08 | 5.09E-08 | 2.84E-08 | 1.33E-07 | 3.03E-11 | 4.39E-10 | 7.95E-09 | 7.95E-09 | 4.37E-09 | 2.07E-08 | 1.64E-11 | 2.38E-10 | 3.54E-09 | 3.54E-09 | 1.75E-09 | 9.08E-09 |
| 2499 | 258318.2 | 4085723 | 1.91E-10 | 2.76E-09 | 4.87E-08 | 4.87E-08 | 2.72E-08 | 1.28E-07 | 2.90E-11 | 4.20E-10 | 7.61E-09 | 7.61E-09 | 4.18E-09 | 1.98E-08 | 1.57E-11 | 2.27E-10 | 3.38E-09 | 3.38E-09 | 1.68E-09 | 8.69E-09 |
| 2500 | 258342.4 | 4085722 | 1.82E-10 | 2.64E-09 | 4.66E-08 | 4.66E-08 | 2.60E-08 | 1.22E-07 | 2.77E-11 | 4.02E-10 | 7.27E-09 | 7.27E-09 | 4.00E-09 | 1.90E-08 | 1.50E-11 | 2.17E-10 | 3.23E-09 | 3.23E-09 | 1.60E-09 | 8.30E-09 |
| 2501 | 258366.7 | 4085721 | 1.74E-10 | 2.52E-09 | 4.45E-08 | 4.45E-08 | 2.48E-08 | 1.16E-07 | 2.64E-11 | 3.84E-10 | 6.95E-09 | 6.95E-09 | 3.82E-09 | 1.81E-08 | 1.44E-11 | 2.08E-10 | 3.09E-09 | 3.09E-09 | 1.53E-09 | 7.93E-09 |
| 2502 | 258391 | 4085720 | 1.66E-10 | 2.41E-09 | 4.25E-08 | 4.25E-08 | 2.37E-08 | 1.11E-07 | 2.53E-11 | 3.67E-10 | 6.64E-09 | 6.64E-09 | 3.65E-09 | 1.73E-08 | 1.37E-11 | 1.98E-10 | 2.95E-09 | 2.95E-09 | 1.46E-09 | 7.58E-09 |
| 2503 | 257572.2 | 4085847 | 3.11E-10 | 4.50E-09 | 7.94E-08 | 7.94E-08 | 4.43E-08 | 2.08E-07 | 4.72E-11 | 6.85E-10 | 1.24E-08 | 1.24E-08 | 6.61E-09 | 3.23E-08 | 2.56E-11 | 3.71E-10 | 5.51E-09 | 5.51E-09 | 2.73E-09 | 1.42E-08 |
| 2504 | 257550.2 | 4085839 | 3.16E-10 | 4.58E-09 | 8.08E-08 | 8.08E-08 | 4.51E-08 | 2.12E-07 | 4.80E-11 | 6.97E-10 | 1.26E-08 | 1.26E-08 | 6.94E-09 | 3.29E-08 | 2.61E-11 | 3.77E-10 | 5.61E-09 | 5.61E-09 | 2.78E-09 | 1.44E-08 |
| 2505 | 257528.2 | 4085831 | 3.22E-10 | 4.65E-09 | 8.22E-08 | 8.22E-08 | 4.38E-08 | 2.15E-07 | 4.88E-11 | 7.09E-10 | 1.28E-08 | 1.28E-08 | 7.06E-09 | 5.35E-08 | 2.65E-11 | 3.64E-10 | 5.71E-08 | 5.71E-09 | 2.83E-09 | 1.47E-08 |
| 2506 | 257506.2 | 4085823 | 3.27E-10 | 4.73E-09 | 8.35E-08 | 8.35E-08 | 4.66E-08 | 2.19E-07 | 4.96E-11 | 7.21E-10 | 1.30E-08 | 1.30E-08 | 7.17E-09 | 3.40E-08 | 2.70E-11 | 3.90E-10 | 5.80E-08 | 5.80E-09 | 2.67E-09 | 1.49E-08 |
| 2507 | 257484.3 | 4085813 | 3.32E-10 | 4.80E-09 | 8.48E-08 | 8.48E-08 | 4.73E-08 | 2.22E-07 | 5.04E-11 | 7.32E-10 | 1.32E-08 | 1.32E-08 | 7.28E-09 | 3.45E-08 | 2.74E-11 | 3.96E-10 | 5.85E-09 | 5.89E-09 | 2.92E-09 | 1.51E-08 |
| 2508 | 257462.3 | 4085807 | 3.37E-10 | 4.67E-09 | 8.60E-08 | 8.60E-08 | 4.79E-08 | 2.25E-07 | 5.11E-11 | 7.42E-10 | 1.34E-08 | 1.34E-08 | 7.38E-09 | 3.50E-08 | 2.78E-11 | 4.01E-10 | 5.97E-09 | 5.97E-09 | 2.96E-09 | 1.53E-08 |
| 2509 | 257440.3 | 4085799 | 3.41E-10 | 4.93E-09 | 8.71E-08 | 6.71E-08 | 4.86E-08 | 2.28E-07 | 5.16E-11 | 7.52E-10 | 1.36E-08 | 1.36E-08 | 7.48E-09 | 3.55E-08 | 2.81E-11 | 4.07E-10 | 6.05E-09 | 6.05E-09 | 3.00E-09 | 1.55E-08 |
| 2510 | 257418.3 | 4085791 | 3.45E-10 | 4.99E-09 | 8.82E-08 | 8.82E-08 | 4.91E-08 | 2.31E-07 | 5.24E-11 | 7.60E-10 | 1.38E-08 | 1.38E-08 | 7.57E-09 | 3.59E-08 | 2.84E-11 | 4.11E-10 | 6.12E-09 | 6.12E-09 | 3.03E-09 | 1.57E-08 |
| 2511 | 257396.4 | 4085783 | 3.49E-10 | 5.05E-09 | 8.91E-08 | 6.91E-08 | 4.97E-08 | 2.33E-07 | 5.30E-11 | 7.69E-10 | 1.39E-08 | 1.39E-08 | 7.65E-09 | 3.63E-08 | 2.88E-11 | 4.16E-10 | 6.19E-09 | 6.19E-09 | 3.06E-09 | 1.59E-08 |
| 2512 | 257374.4 | 4085775 | 3.53E-10 | 5.10E-09 | 9.00E-08 | 9.00E-08 | 5.02E-08 | 2.36E-07 | 5.35E-11 | 7.77E-10 | 1.41E-08 | 1.41E-08 | 7.73E-09 | 3.67E-08 | 2.91E-11 | 4.20E-10 | 6.25E-09 | 6.25E-09 | 3.10E-09 | 1.61E-08 |
| 2513 | 257352.4 | 4085767 | 3.56E-10 | 5.15E-09 | 9.09E-08 | 9.09E-08 | 5.07E-08 | 2.38E-07 | 5.40E-11 | 7.84E-10 | 1.42E-08 | 1.42E-08 | 7.80E-09 | 3.70E-08 | 2.93E-11 | 4.24E-10 | 6.31E-09 | 6.31E-09 | 3.12E-09 | 1.62E-08 |
| 2514 | 257330.4 | 4085759 | 3.59E-10 | 5.19E-09 | 9.16E-08 | 9.16E-08 | 5.11E-08 | 2.40E-07 | 5.44E-11 | 7.90E-10 | 1.43E-08 | 1.43E-08 | 7.86E-09 | 3.73E-08 | 2.96E-11 | 4.28E-10 | 6.36E-09 | 6.36E-09 | 3.13E-09 | 1.63E-08 |
| 2515 | 257308.5 | 4085751 | 3.61E-10 | 5.22E-09 | 9.21E-08 | 9.21E-08 | 5.13E-08 | 2.41E-07 | 5.47E-11 | 7.94E-10 | 1.44E-08 | 1.44E-08 | 7.91E-09 | 5.75E-08 | 2.87E-11 | 4.30E-10 | 6.40E-09 | 6.40E-09 | 3.17E-09 | 1.84E-08 |
| 2516 | 257266.5 | 4085743 | 3.62E-10 | 5.23E-09 | 9.23E-08 | 9.23E-08 | 5.15E-08 | 2.42E-07 | 5.49E-11 | 7.97E-10 | 1.44E-08 | 1.44E-08 | 7.93E-09 | 5.76E-08 | 2.98E-11 | 4.31E-10 | 6.41E-08 | 6.41E-09 | 3.16E-09 | 1.63E-08 |
| 2517 | 257264.5 | 4085735 | 3.61E-10 | 5.22E-09 | 9.23E-08 | 9.23E-08 | 5.14E-08 | 2.42E-07 | 5.48E-11 | 7.96E-10 | 1.44E-08 | 1.44E-08 | 7.92E-09 | 3.76E-08 | 2.98E-11 | 4.31E-10 | 6.41E-09 | 6.41E-09 | 3.17E-09 | 1.65E-08 |
| 2518 | 257242.5 | 4085726 | 3.60E-10 | 5.20E-09 | 9.19E-08 | 9.19E-08 | 5.12E-08 | 2.40E-07 | 5.46E-11 | 7.92E-10 | 1.43E-08 | 1.43E-08 | 7.88E-09 | 3.74E-08 | 2.96E-11 | 4.29E-10 | 6.38E-09 | 6.36E-09 | 3.16E-09 | 1.64E-08 |
| 2519 | 257220.6 | 4085718 | 3.58E-10 | 5.17E-09 | 9.13E-08 | 9.13E-08 | 5.09E-08 | 2.39E-07 | 5.43E-11 | 7.88E-10 | 1.43E-08 | 1.43E-08 | 7.84E-09 | 3.72E-08 | 2.95E-11 | 4.26E-10 | 6.34E-09 | 6.34E-09 | 3.14E-09 | 1.63E-08 |
| 2520 | 257196.6 | 4085710 | 3.54E-10 | 5.13E-09 | 9.05E-08 | 9.05E-08 | 5.05E-08 | 2.37E-07 | 5.38E-11 | 7.81E-10 | 1.41E-08 | 1.41E-08 | 7.77E-09 | 3.69E-08 | 2.92E-11 | 4.23E-10 | 6.29E-09 | 6.29E-09 | 3.11E-09 | 1.61E-08 |
| 2521 | 257178.6 | 4085702 | 3.50E-10 | 5.07E-09 | 8.93E-08 | 8.95E-08 | 4.99E-08 | 2.34E-07 | 5.32E-11 | 7.72E-10 | 1.40E-08 | 1.40E-08 | 7.68E-09 | 3.65E-08 | 2.89E-11 | 4.18E-10 | 6.22E-09 | 6.22E-09 | 3.08E-09 | 1.60E-08 |
| 2522 | 257154.6 | 4085694 | 3.46E-10 | 5.00E-09 | 8.84E-08 | 8.84E-08 | 4.93E-08 | 2.31E-07 | 5.23E-11 | 7.62E-10 | 1.38E-08 | 1.38E-08 | 7.59E-09 | 3.60E-08 | 2.85E-11 | 4.12E-10 | 6.14E-09 | 6.14E-09 | 3.04E-09 | 1.38E-08 |
| 2523 | 257132.7 | 4085686 | 3.41E-10 | 4.94E-09 | 8.72E-08 | 8.72E-08 | 4.86E-08 | 2.28E-07 | 5.18E-11 | 7.52E-10 | 1.36E-08 | 1.36E-08 | 7.48E-09 | 3.55E-08 | 2.81E-11 | 4.07E-10 | 6.06E-09 | 6.06E-09 | 3.00E-09 | 1.55E-08 |
| 2524 | 257110.7 | 4085678 | 3.36E-10 | 4.87E-09 | 8.59E-08 | 8.59E-08 | 4.79E-08 | 2.25E-07 | 5.11E-11 | 7.41E-10 | 1.34E-08 | 1.34E-08 | 7.37E-09 | 3.50E-08 | 2.77E-11 | 4.01E-10 | 5.97E-09 | 5.92E-09 | 2.93E-09 | 1.55E-08 |
| 2525 | 257078.9 | 4085649 | 3.35E-10 | 4.84E-09 | 8.55E-08 | 8.53E-08 | 4.77E-08 | 2.24E-07 | 5.08E-11 | 7.56E-10 | 1.34E-08 | 1.34E-08 | 7.34E-09 | 3.48E-08 | 2.76E-11 | 3.99E-10 | 5.94E-08 | 5.94E-09 | 2.94E-09 | 1.52E-08 |
| 2526 | 257069.1 | 4085628 | 3.37E-10 | 4.88E-09 | 8.62E-08 | 8.62E-08 | 4.80E-08 | 2.26E-07 | 5.12E-11 | 7.45E-10 | 1.35E-08 | 1.33E-08 | 7.40E-09 | 3.51E-08 | 2.78E-11 | 4.02E-10 | 5.99E-09 | 5.99E-09 | 2.96E-09 | 1.54E-08 |
| 2527 | 257059.4 | 4083607 | 3.38E-10 | 4.89E-09 | 8.64E-08 | 6.84E-08 | 4.82E-08 | 2.26E-07 | 5.14E-11 | 7.46E-10 | 1.35E-08 | 1.35E-08 | 7.42E-09 | 5.52E-08 | 2.79E-11 | 4.03E-10 | 6.00E-09 | 6.00E-09 | 2.97E-09 | 1.54E-08 |
| 2528 | 257049.6 | 4085385 | 3.38E-10 | 4.88E-09 | 8.62E-08 | 6.63E-08 | 4.81E-08 | 2.26E-07 | 5.12E-11 | 7.44E-10 | 1.35E-08 | 1.33E-08 | 7.40E-09 | 3.51E-08 | 2.78E-11 | 4.02E-10 | 5.99E-09 | 5.99E-09 | 2.96E-09 | 1.54E-08 |
| 2529 | 257039.6 | 4085564 | 3.35E-10 | 4.84E-09 | 8.53E-08 | 8.55E-08 | 4.76E-08 | 2.24E-07 | 5.08E-11 | 7.37E-10 | 1.33E-08 | 1.33E-08 | 7.34E-09 | 3.48E-08 | 2.76E-11 | 3.99E-10 | 5.94E-09 | 5.94E-09 | 2.94E-09 | 1.52E-08 |
| 2530 | 257030 | 4083543 | 3.29E-10 | 4.76E-09 | 8.41E-08 | 8.41E-08 | 4.69E-08 | 2.20E-07 | 5.00E-11 | 7.26E-10 | 1.31E-08 | 1.31E-08 | 7.22E-09 | 3.43E-08 | 2.71E-11 | 3.93E-10 | 5.84E-09 | 5.84E-09 | 2.89E-09 | 1.50E-08 |
| 2531 | 257020.2 | 4085322 | 3.22E-10 | 4.65E-09 | 8.21E-08 | 8.21E-08 | 4.58E-08 | 2.15E-07 | 4.88E-11 | 7.09E-10 | 1.28E-08 | 1.28E-08 | 7.05E-09 | 3.35E-08 | 2.65E-11 | 3.83E-10 | 5.71E-09 | 5.71E-09 | 2.82E-09 | 1.46E-08 |
| 2532 | 257010.4 | 4085500 | 3.11E-10 | 4.50E-09 | 7.95E-08 | 7.95E-08 | 4.45E-08 | 2.08E-07 | 4.73E-11 | 6.86E-10 | 1.24E-08 | 1.24E-08 | 6.83E-09 | 3.24E-08 | 2.57E-11 | 3.71E-10 | 5.33E-09 | 5.53E-09 | 2.73E-09 | 1.42E-08 |
| 2533 | 257000.6 | 4085479 | 2.99E-10 | 4.32E-09 | 7.63E-08 | 7.63E-08 | 4.26E-08 | 2.00E-07 | 4.54E-11 | 6.58E-10 | 1.19E-08 | 1.19E-08 | 6.55E-09 | 3.11E-08 | 2.46E-11 | 3.56E-10 | 5.30E-09 | 5.30E-09 | 2.62E-09 | 1.36E-08 |
| 2534 | 256990.9 | 4085458 | 2.84E-10 | 4.11E-09 | 7.26E-08 | 7.26E-08 | 4.05E-08 | 1.90E-07 | 4.31E-11 | 6.26E-10 | 1.13E-08 | 1.13E-08 | 6.23E-09 | 2.96E-08 | 2.34E-11 | 3.39E-10 | 5.04E-09 | 5.04E-09 | 2.50E-09 | 1.29E-08 |
| 2535 | 256981.1 | 4085437 | 2.66E-10 | 3.87E-09 | 6.84E-08 | 6.84E-08 | 3.81E-08 | 1.79E-07 | 4.07E-11 | 5.90E-10 | 1.07E-08 | 1.07E-08 | 5.87E-09 | 2.79E-08 | 2.21E-11 | 3.19E-10 | 4.75E-09 | 4.75E-09 | 2.35E-09 | 1.22E-08 |
| 2536 | 256971.3 | 4085413 | 2.51E-10 | 3.62E-09 | 6.40E-08 | 6.40E-08 | 3.57E-08 | 1.68E-07 | 3.80E-11 | 5.52E-10 | 9.99E-09 | 9.99E-09 | 5.49E-09 | 2.61E-08 | 2.07E-11 | 2.99E-10 | 4.45E-09 | 4.45E-09 | 2.20E-09 | 1.14E-08 |
| 2537 | 256961.5 | 4085394 | 2.33E-10 | 3.37E-09 | 5.95E-08 | 5.95E-08 | 5.32E-08 | 1.56E-07 | 3.53E-11 | 5.13E-10 | 9.29E-09 | 9.29E-09 | 5.10E-09 | 2.42E-08 | 1.92E-11 | 2.79E-10 | 4.13E-09 | 4.13E-09 | 2.04E-09 | 1.06E-08 |
| 2558 | 256951.7 | 4085373 | 2.15E-10 | 3.12E-09 | 5.50E-08 | 5.50E-08 | 3.07E-08 | 1.44E-07 | 3.27E-11 | 4.75E-10 | 6.59E-09 | 8.59E-09 | 4.72E-09 | 2.24E-08 | 1.78E-11 | 2.57E-10 | 3.82E-09 | 3.82E-09 | 1.89E-09 | 9.81E-09 |
| 2539 | 256941.9 | 4085352 | 1.99E-10 | 2.88E-09 | 5.09E-08 | 5.09E-08 | 2.84E-08 | 1.33E-07 | 3.02E-11 | 4.39E-10 | 7.94E-09 | 7.94E-09 | 4.37E-09 | 2.07E-08 | 1.64E-11 | 2.37E-10 | 3.53E-09 | 3.53E-09 | 1.75E-09 | 9.07E-09 |
| 2540 | 258932.1 | 4085330 | 1.84E-10 | 2.66E-09 | 4.70E-08 | 4.70E-08 | 2.62E-08 | 1.23E-07 | 2.79E-11 | 4.06E-10 | 7.34E-09 | 7.34E-09 | 4.04E-09 | 1.92E-08 | 1.52E-11 | 2.20E-10 | 3.27E-09 | 3.27E-09 | 1.62E-09 | 8.39E-09 |
| 2541 | 256922.4 | 4085309 | 1.71E-10 | 2.47E-09 | 4.36E-08 | 4.38E-08 | 2.43E-08 | 1.14E-07 | 2.59E-11 | 3.76E-10 | 6.81E-09 | 6.81E-09 | 3.74E-09 | 1.78E-08 | 1.41E-11 | 2.04E-10 | 3.03E-09 | 3.03E-09 | 1.50E-09 | 7.78E-09 |
| 2542 | 256912.6 | 4085288 | 1.59E-10 | 2.31E-09 | 4.07E-08 | 4.07E-08 | 2.27E-08 | 1.07E-07 | 2.42E-11 | 3.51E-10 | 6.36E-09 | 6.36E-09 | 3.49E-09 | 1.66E-08 | 1.31E-11 | 1.90E-10 | 2.83E-09 | 2.83E-09 | 1.40E-09 | 7.26E-09 |
| 2543 | 256901.6 | 4085267 | 1.50E-10 | 2.17E-09 | 3.83E-08 | 3.83E-08 | 2.13E-08 | 1.00E-07 | 2.27E-11 | 3.30E-10 | 5.97E-09 | 5.97E-09 | 3.28E-09 | 1.56E-08 | 1.23E-11 | 1.79E-10 | 2.66E-09 | 2.66E-09 | 1.32E-09 | 6.82E-09 |
| 2544 | 256893 | 4085245 | 1.42E-10 | 2.05E-09 | 3.62E-08 | 3.62E-08 | 2.02E-08 | 9.48E-08 | 2.15E-11 | 3.12E-10 | 5.65E-09 | 5.65E-09 | 3.11E-09 | 1.48E-08 | 1.17E-11 | 1.69E-10 | 2.52E-09 | 2.52E-09 | 1.25E-09 | 6.46E-09 |
| 2545 | 256883.2 | 4085224 | 1.35E-10 | 1.95E-09 | 3.45E-08 | 3.45E-08 | 1.92E-08 | 9.04E-08 | 2.05E-11 | 2.98E-10 | 5.39E-09 | 5.39E-09 | 2.96E-09 | 1.41E-08 | 1.11E-11 | 1.61E-10 | 2.40E-09 | 2.40E-09 | 1.19E-09 | 6.15E-09 |
| 2546 | 256873.4 | 4085203 | 1.30E-10 | 1.67E-09 | 3.31E-08 | 3.31E-08 | 1.84E-08 | 8.66E-08 | 1.97E-11 | 2.85E-10 | 5.17E-09 | 5.17E-09 | 2.84E-09 | 1.35E-08 | 1.07E-11 | 1.54E-10 | 2.30E-09 | 2.30E-09 | 1.14E-09 | 5.90E-09 |
| 2547 | 257594.1 | 4085855 | 3.05E-10 | 4.41E-09 | 7.79E-08 | 7.79E-08 | 4.34E-08 | 2.04E-07 | 4.63E-11 | 8.72E-10 | 1.22E-08 | 1.22E-08 | 6.69E-09 | 3.17E-08 | 2.51E-11 | 3.64E-10 | 5.41E-09 | 5.41E-09 | 2.68E-09 | 1.39E-08 |
| 2548 | 257618.4 | 4085854 | 3.05E-10 | 4.41E-09 | 7.78E-08 | 7.78E-08 | 4.34E-09 | 2.04E-07 | 4.62E-11 | 6.71E-10 | 1.21E-08 | 1.21E-08 | 6.68E-09 | 3.17E-08 | 2.51E-11 | 3.63E-10 | 5.41E-09 | 5.41E-09 | 2.68E-09 | 1.39E-08 |
| 2549 | 257642.7 | 4085853 | 3.04E-10 | 4.40E-09 | 7.76E-08 | 7.76E-08 | 4.33E-08 | 2.03E-07 | 4.61E-11 | 6.70E-10 | 1.21E-08 | 1.21E-08 | 6.66E-09 | 3.16E-08 | 2.51E-11 | 3.62E-10 | 5.39E-09 | 5.39E-09 | 2.67E-09 | 1.38E-08 |
| 2550 | 257667 | 4085852 | 3.03E-10 | 4.38E-09 | 7.75E-08 | 7.73E-08 | 4.31E-08 | 2.02E-07 | 4.59E-11 | 6.67E-10 | 1.21E-08 | 1.21E-08 | 6.63E-09 | 3.15E-08 | 2.49E-11 | 3.61E-10 | 5.37E-09 | 5.37E-09 | 2.66E-09 | 1.38E-08 |
| 2551 | 257691.3 | 4085851 | 3.01E-10 | 4.35E-09 | 7.68E-08 | 7.68E-08 | 4.28E-08 | 2.01E-07 | 4.58E-11 | 6.65E-10 | 1.20E-08 | 1.20E-08 | 6.59E-09 | 3.13E-08 | 2.48E-11 | 3.59E-10 | 5.34E-09 | 5.34E-09 | 2.64E-09 | 1.37E-08 |
| 2552 | 257715.5 | 4085850 | 2.98E-10 | 4.31E-09 | 7.62E-08 | 7.62E-08 | 4.23E-08 | 1.99E-07 | 4.53E-11 | 6.57E-10 | 1.19E-08 | 1.19E-08 | 6.54E-09 | 3.10E-08 | 2.46E-11 | 3.56E-10 | 5.29E-09 | 5.29E-09 | 2.62E-09 | 1.36E-08 |
| 2553 | 257739.6 | 4085848 | 2.95E-10 | 4.27E-09 | 7.54E-08 | 7.54E-08 | 4.20E-08 | 1.97E-07 | 4.48E-11 | 6.50E-10 | 1.18E-08 | 1.18E-08 | 6.47E-09 | 3.07E-08 | 2.43E-11 | 3.52E-10 | 5.24E-09 | 5.24E-09 | 2.59E-09 | 1.34E-08 |
| 2554 | 257764.1 | 4085847 | 2.90E-10 | 4.19E-09 | 7.41E-08 | 7.41E-08 | 4.13E-08 | 1.94E-07 | 4.40E-11 | 6.39E-10 | 1.16E-08 | 1.16E-08 | 6.36E-09 | 3.02E-08 | 2.39E-11 | 3.46E-10 | 5.15E-09 | 5.15E-09 | 2.55E-09 | 1.32E-08 |
| 2555 | 257788.4 | 4085846 | 2.85E-10 | 4.13E-09 | 7.29E-08 | 7.29E-08 | 4.07E-08 | 1.91E-07 | 4.33E-11 | 6.29E-10 | 1.14E-08 | 1.14E-08 | 6.26E-09 | 2.97E-08 | 2.35E-11 | 3.40E-10 | 5.07E-09 | 5.07E-09 | 2.51E-09 | 1.30E-08 |
| 2556 | 257912.7 | 4085845 | 2.81E-10 | 4.06E-09 | 7.17E-08 | 7.17E-08 | 4.00E-08 | 1.88E-07 | 4.26E-11 | 6.19E-10 | 1.12E-08 | 1.12E-08 | 6.16E-09 | 2.92E-08 | 2.31E-11 | 3.35E-10 | 4.98E-09 | 4.98E-09 | 2.47E-09 | 1.26E-08 |
| 2557 | 257837 | 4085844 | 2.76E-10 | 3.99E-09 | 7.04E-08 | 7.04E-08 | 3.92E-08 | 1.84E-07 | 4.16E-11 | 6.07E-10 | 1.10E-08 | 1.10E-08 | 6.04E-09 | 2.87E-08 | 2.27E-11 | 3.29E-10 | 4.89E-09 | 4.89E-09 | 2.42E-09 | 1.26E-08 |
| 2558 | 257861.2 | 4085843 | 2.70E-10 | 3.91E-09 | 6.90E-08 | 6.90E-08 | 3.85E-08 | 1.81E-07 | 4.10E-11 | 5.93E-10 | 1.08E-08 | 1.08E-08 | 5.92E-09 | 2.81E-08 | 2.25E-11 | 3.22E-10 | 4.79E-09 | 4.79E-09 | 2.37E-09 | 1.23E-08 |
| 2559 | 257885.5 | 4085842 | 2.64E-10 | 3.82E-09 | 6.73E-06 | 6.75E-08 | 3.77E-08 | 1.77E-07 | 4.01E-11 | 5.83E-10 | 1.05E-08 | 1.05E-08 | 5.80E-09 | 2.75E-08 | 2.18E-11 | 3.15E-10 | 4.69E-09 | 4.69E-09 | 2.32E-09 | 1.20E-08 |
| 2360 | 257909.8 | 4085841 | 2.59E-10 | 3.74E-09 | 6.60E-08 | 6.60E-08 | 3.68E-08 | 1.73E-07 | 5.92E-11 | 5.70E-10 | 1.03E-08 | 1.03E-08 | 5.67E-09 | 2.69E-08 | 2.13E-11 | 3.08E-10 | 4.59E-09 | 4.59E-09 | 2.27E-09 | 1.18E-08 |
| 2561 | 257934.1 | 4085840 | 2.53E-10 | 3.65E-09 | 6.45E-08 | 6.45E-08 | 3.60E-08 | 1.69E-07 | 5.83E-11 | 5.56E-10 | 1.01E-08 | 1.01E-08 | 5.54E-09 | 2.63E-08 | 2.08E-11 | 3.01E-10 | 4.48E-09 | 4.48E-09 | 2.22E-09 | 1.15E-08 |
| 2562 | 257958.4 | 4085839 | 2.47E-10 | 3.57E-09 | 6.30E-08 | 6.30E-08

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2357 | 258115.1 | 4085532 | 5.04E-10 | 7.29E-09 | 1.29E-07 | 1.29E-07 | 7.17E-08 | 3.37E-07 | 7.64E-11 | 1.11E-09 | 2.01E-08 | 2.01E-08 | 1.10E-08 | 5.24E-08 | 4.15E-11 | 6.01E-10 | 8.94E-09 | 8.94E-09 | 4.42E-09 | 2.29E-08 |
| 2356 | 256139.3 | 4085530 | 4.82E-10 | 6.96E-09 | 1.23E-07 | 1.23E-07 | 6.86E-08 | 3.22E-07 | 7.31E-11 | 1.06E-09 | 1.92E-08 | 1.92E-08 | 1.06E-08 | 5.01E-08 | 3.97E-11 | 5.74E-10 | 8.54E-09 | 8.54E-09 | 4.23E-09 | 2.19E-08 |
| 2359 | 258163.6 | 4085529 | 4.60E-10 | 6.65E-09 | 1.17E-07 | 1.17E-07 | 6.55E-08 | 3.07E-07 | 8.98E-11 | 1.01E-09 | 1.83E-08 | 1.83E-08 | 1.01E-08 | 4.78E-08 | 3.79E-11 | 5.48E-10 | 8.16E-09 | 8.16E-09 | 4.04E-09 | 2.09E-08 |
| 2360 | 258187.9 | 4085528 | 4.39E-10 | 6.34E-09 | 1.12E-07 | 1.12E-07 | 6.25E-08 | 2.93E-07 | 6.66E-11 | 9.68E-10 | 1.75E-08 | 1.75E-08 | 9.62E-09 | 4.56E-08 | 3.62E-11 | 5.23E-10 | 7.78E-09 | 7.78E-09 | 3.85E-09 | 2.00E-08 |
| 2361 | 258212.2 | 4085527 | 4.16E-10 | 6.04E-09 | 1.07E-07 | 1.07E-07 | 5.95E-08 | 2.79E-07 | 6.34E-11 | 9.21E-10 | 1.67E-08 | 1.67E-08 | 9.16E-09 | 4.35E-08 | 3.44E-11 | 4.98E-10 | 7.41E-09 | 7.41E-09 | 3.67E-09 | 1.90E-08 |
| 2362 | 258236.5 | 4085526 | 3.97E-10 | 5.74E-09 | 1.01E-07 | 1.01E-07 | 5.65E-08 | 2.65E-07 | 6.03E-11 | 8.75E-10 | 1.58E-08 | 1.56E-08 | 8.70E-09 | 4.13E-08 | 3.27E-11 | 4.73E-10 | 7.04E-09 | 7.04E-09 | 3.49E-09 | 1.81E-08 |
| 2363 | 258260.8 | 4085525 | 3.76E-10 | 5.44E-09 | 9.61E-08 | 9.61E-08 | 5.36E-08 | 2.52E-07 | 5.71E-11 | 8.29E-10 | 1.50E-08 | 1.50E-08 | 8.25E-09 | 3.91E-08 | 3.10E-11 | 4.48E-10 | 6.67E-09 | 6.67E-09 | 3.30E-09 | 1.71E-08 |
| 2364 | 258285 | 4085524 | 3.55E-10 | 5.14E-09 | 9.08E-08 | 9.08E-08 | 5.06E-08 | 2.38E-07 | 5.39E-11 | 7.63E-10 | 1.42E-08 | 1.42E-08 | 7.79E-09 | 3.70E-08 | 2.93E-11 | 4.24E-10 | 6.31E-09 | 6.31E-09 | 3.12E-09 | 1.62E-08 |
| 2365 | 258309.3 | 4085523 | 3.35E-10 | 4.84E-09 | 8.56E-08 | 8.56E-08 | 4.77E-08 | 2.24E-07 | 5.08E-11 | 7.38E-10 | 1.34E-08 | 1.34E-08 | 7.34E-09 | 3.49E-08 | 2.76E-11 | 3.99E-10 | 5.94E-09 | 5.94E-09 | 2.94E-09 | 1.53E-08 |
| 2366 | 258333.6 | 4085522 | 3.15E-10 | 4.56E-09 | 8.05E-08 | 8.05E-08 | 4.49E-08 | 2.11E-07 | 4.78E-11 | 6.93E-10 | 1.28E-08 | 1.26E-08 | 8.91E-09 | 3.28E-08 | 2.60E-11 | 3.76E-10 | 5.59E-09 | 5.59E-09 | 2.77E-09 | 1.44E-08 |
| 2367 | 258357.9 | 4085521 | 2.96E-10 | 4.29E-09 | 7.57E-08 | 7.57E-08 | 4.22E-08 | 1.98E-07 | 4.50E-11 | 6.53E-10 | 1.16E-08 | 1.18E-08 | 6.50E-09 | 3.08E-08 | 2.44E-11 | 3.53E-10 | 5.26E-09 | 9.26E-09 | 2.60E-09 | 1.35E-08 |
| 2368 | 258382.2 | 4085570 | 2.79E-10 | 4.03E-09 | 7.12E-08 | 7.12E-08 | 3.97E-08 | 1.86E-07 | 4.23E-11 | 6.14E-10 | 1.11E-08 | 1.11E-08 | 8.11E-09 | 2.90E-08 | 2.30E-11 | 3.32E-10 | 4.94E-09 | 4.94E-09 | 2.45E-09 | 1.27E-08 |
| 2369 | 257562.7 | 4085647 | 5.15E-10 | 7.44E-09 | 1.31E-07 | 1.31E-07 | 7.33E-08 | 3.44E-07 | 7.81E-11 | 1.13E-09 | 2.05E-08 | 2.05E-08 | 1.13E-08 | 5.35E-08 | 4.24E-11 | 8.13E-10 | 9.13E-09 | 9.13E-09 | 4.52E-09 | 2.34E-08 |
| 2370 | 257540.2 | 4085639 | 5.24E-10 | 7.58E-09 | 1.34E-07 | 1.34E-07 | 7.46E-08 | 3.50E-07 | 7.95E-11 | 1.15E-09 | 2.09E-08 | 2.09E-08 | 1.15E-08 | 5.45E-08 | 4.32E-11 | 8.25E-10 | 9.30E-09 | 9.30E-09 | 4.60E-09 | 2.39E-08 |
| 2371 | 257517.6 | 4085830 | 5.32E-10 | 7.70E-09 | 1.36E-07 | 1.36E-07 | 7.58E-08 | 3.56E-07 | 8.08E-11 | 1.17E-09 | 2.12E-08 | 2.12E-08 | 1.17E-08 | 5.54E-08 | 4.39E-11 | 8.35E-10 | 9.44E-09 | 9.44E-09 | 4.67E-09 | 2.42E-08 |
| 2372 | 257495 | 4085622 | 5.39E-10 | 7.80E-09 | 1.38E-07 | 1.38E-07 | 7.68E-08 | 3.61E-07 | 8.19E-11 | 1.19E-09 | 2.15E-08 | 2.15E-08 | 1.18E-08 | 5.61E-08 | 4.45E-11 | 6.43E-10 | 9.57E-09 | 9.57E-09 | 4.74E-09 | 2.46E-08 |
| 2373 | 257472.5 | 4085614 | 5.45E-10 | 7.88E-09 | 1.39E-07 | 1.39E-07 | 7.76E-08 | 3.54E-07 | 6.27E-11 | 1.20E-09 | 2.17E-08 | 2.17E-08 | 1.19E-08 | 5.67E-08 | 4.49E-11 | 6.50E-10 | 9.67E-09 | 9.67E-09 | 4.79E-09 | 2.48E-08 |
| 2374 | 257449.9 | 4085606 | 5.49E-10 | 7.95E-09 | 1.40E-07 | 1.40E-07 | 7.82E-08 | 3.67E-07 | 8.34E-11 | 1.21E-09 | 2.19E-08 | 2.19E-08 | 1.20E-08 | 5.72E-08 | 4.53E-11 | 6.55E-10 | 9.75E-09 | 9.75E-09 | 4.83E-09 | 2.50E-08 |
| 2375 | 257427.3 | 4085597 | 5.34E-10 | 8.02E-09 | 1.42E-07 | 1.42E-07 | 7.89E-08 | 3.71E-07 | 8.41E-11 | 1.22E-09 | 2.21E-08 | 2.21E-08 | 1.22E-08 | 5.77E-08 | 4.57E-11 | 8.61E-10 | 9.83E-09 | 9.83E-09 | 4.87E-09 | 2.52E-08 |
| 2376 | 257404.8 | 4085589 | 5.56E-10 | 8.04E-09 | 1.42E-07 | 1.42E-07 | 7.92E-08 | 3.72E-07 | 8.44E-11 | 1.23E-09 | 2.22E-08 | 2.22E-08 | 1.22E-08 | 5.79E-08 | 4.58E-11 | 8.63E-10 | 9.87E-09 | 9.87E-09 | 4.88E-09 | 2.53E-08 |
| 2377 | 257382.2 | 4085581 | 5.56E-10 | 8.04E-09 | 1.42E-07 | 1.42E-07 | 7.91E-08 | 3.72E-07 | 6.43E-11 | 1.22E-09 | 2.22E-08 | 2.22E-08 | 1.22E-08 | 5.78E-08 | 4.58E-11 | 6.62E-10 | 9.86E-09 | 9.86E-09 | 4.88E-09 | 2.53E-08 |
| 2378 | 257359.7 | 4085573 | 5.53E-10 | 7.99E-09 | 1.41E-07 | 1.41E-07 | 7.87E-08 | 3.70E-07 | 8.39E-11 | 1.22E-09 | 2.20E-08 | 2.20E-08 | 1.21E-08 | 5.75E-08 | 4.56E-11 | 6.59E-10 | 9.80E-09 | 9.80E-09 | 4.85E-09 | 2.52E-08 |
| 2379 | 257337.1 | 4085564 | 5.46E-10 | 7.90E-09 | 1.40E-07 | 1.40E-07 | 7.78E-08 | 3.65E-07 | 8.29E-11 | 1.20E-09 | 2.16E-08 | 2.18E-08 | 1.20E-08 | 5.68E-08 | 4.50E-11 | 6.51E-10 | 9.70E-09 | 9.70E-09 | 4.80E-09 | 2.49E-08 |
| 2380 | 257314.5 | 4085558 | 5.37E-10 | 7.77E-09 | 1.37E-07 | 1.37E-07 | 7.65E-08 | 3.59E-07 | 8.16E-11 | 1.18E-09 | 2.14E-08 | 2.14E-06 | 1.18E-08 | 5.59E-08 | 4.43E-11 | 6.41E-10 | 9.53E-09 | 9.53E-09 | 4.77E-09 | 2.45E-08 |
| 2381 | 257292 | 4085548 | 5.28E-10 | 7.61E-09 | 1.34E-07 | 1.34E-07 | 7.49E-08 | 3.52E-07 | 7.98E-11 | 1.16E-09 | 2.10E-05 | 2.10E-08 | 1.15E-08 | 5.47E-08 | 4.34E-11 | 8.27E-10 | 9.33E-09 | 9.33E-09 | 4.62E-09 | 2.40E-08 |
| 2382 | 257269.4 | 4085540 | 5.13E-10 | 7.42E-09 | 1.31E-07 | 1.31E-07 | 7.30E-08 | 3.43E-07 | 7.79E-11 | 1.13E-09 | 2.05E-08 | 2.05E-08 | 1.12E-08 | 5.34E-08 | 4.23E-11 | 8.12E-10 | 9.10E-09 | 9.10E-09 | 4.50E-09 | 2.34E-08 |
| 2383 | 257246.8 | 4085531 | 4.99E-10 | 7.22E-09 | 1.27E-07 | 1.27E-07 | 7.10E-08 | 3.34E-07 | 7.57E-11 | 1.10E-09 | 1.99E-08 | 1.99E-08 | 1.09E-08 | 5.19E-08 | 4.11E-11 | 5.95E-10 | 8.85E-09 | 8.85E-09 | 4.38E-09 | 2.27E-08 |
| 2384 | 257714.2 | 4085501 | 4.67E-10 | 7.05E-09 | 1.24E-07 | 1.24E-07 | 6.94E-08 | 3.26E-07 | 7.39E-11 | 1.07E-09 | 1.94E-08 | 1.94E-08 | 1.07E-08 | 5.07E-08 | 4.02E-11 | 5.81E-10 | 8.64E-09 | 8.64E-09 | 4.26E-09 | 2.22E-08 |
| 2385 | 257204.2 | 4085480 | 4.88E-10 | 7.05E-09 | 1.25E-07 | 1.25E-07 | 6.94E-08 | 3.26E-07 | 7.40E-11 | 1.07E-09 | 1.94E-08 | 1.94E-08 | 1.07E-08 | 5.07E-08 | 4.02E-11 | 5.81E-10 | 8.65E-09 | 8.65E-09 | 4.26E-09 | 2.22E-08 |
| 2386 | 257194.1 | 4085458 | 4.84E-10 | 7.00E-09 | 1.24E-07 | 1.24E-07 | 6.89E-08 | 3.24E-07 | 7.35E-11 | 1.07E-09 | 1.93E-08 | 1.93E-08 | 1.06E-08 | 5.04E-08 | 3.99E-11 | 5.77E-10 | 8.59E-09 | 8.59E-09 | 4.25E-09 | 2.21E-08 |
| 2387 | 257184.1 | 4085436 | 4.77E-10 | 6.89E-09 | 1.22E-07 | 1.22E-07 | 6.79E-08 | 3.19E-07 | 7.23E-11 | 1.06E-09 | 1.90E-08 | 1.90E-08 | 1.04E-08 | 4.96E-08 | 3.93E-11 | 5.68E-10 | 8.46E-09 | 8.46E-09 | 4.19E-09 | 2.17E-08 |
| 2388 | 257174 | 4085414 | 4.64E-10 | 8.71E-09 | 1.19E-07 | 1.19E-07 | 6.61E-08 | 3.10E-07 | 7.04E-11 | 1.02E-09 | 1.85E-08 | 1.85E-08 | 1.02E-08 | 4.83E-08 | 3.83E-11 | 5.53E-10 | 8.23E-09 | 8.23E-09 | 4.08E-09 | 2.11E-08 |
| 2389 | 257164 | 4085392 | 4.46E-10 | 6.46E-09 | 1.14E-07 | 1.14E-07 | 6.36E-08 | 2.98E-07 | 6.77E-11 | 9.84E-10 | 1.76E-08 | 1.78E-08 | 9.79E-09 | 4.64E-08 | 3.68E-11 | 5.32E-10 | 7.92E-09 | 7.92E-09 | 3.92E-09 | 2.03E-08 |
| 2390 | 257153.9 | 4085370 | 4.24E-10 | 6.13E-09 | 1.08E-07 | 1.08E-07 | 6.04E-08 | 2.83E-07 | 6.43E-11 | 9.34E-10 | 1.69E-08 | 1.69E-08 | 9.29E-09 | 4.41E-08 | 3.49E-11 | 5.05E-10 | 7.52E-09 | 7.52E-09 | 3.72E-09 | 1.93E-08 |
| 2391 | 257143.9 | 4085349 | 3.97E-10 | 5.74E-09 | 1.01E-07 | 1.01E-07 | 5.65E-08 | 2.66E-07 | 6.03E-11 | 8.75E-10 | 1.58E-08 | 1.58E-08 | 8.71E-09 | 4.13E-08 | 3.27E-11 | 4.73E-10 | 7.05E-09 | 7.05E-09 | 3.49E-09 | 1.81E-08 |
| 2392 | 257133.8 | 4085327 | 3.66E-10 | 5.32E-09 | 9.39E-08 | 9.39E-08 | 5.23E-08 | 2.46E-07 | 5.58E-11 | 8.10E-10 | 1.47E-08 | 1.47E-08 | 8.06E-09 | 3.82E-08 | 3.03E-11 | 4.38E-10 | 6.52E-09 | 6.52E-09 | 3.23E-09 | 1.67E-08 |
| 2393 | 257123.8 | 4085305 | 3.37E-10 | 4.88E-09 | 8.61E-08 | 8.61E-08 | 4.80E-08 | 2.25E-07 | 5.12E-11 | 7.43E-10 | 1.34E-08 | 1.34E-08 | 7.39E-09 | 3.51E-08 | 2.78E-11 | 4.02E-10 | 5.98E-09 | 5.98E-09 | 2.96E-09 | 1.34E-08 |
| 2394 | 257113.7 | 4085263 | 3.07E-10 | 4.44E-09 | 7.85E-08 | 7.85E-08 | 4.37E-08 | 2.05E-07 | 4.66E-11 | 8.77E-10 | 1.23E-08 | 1.23E-08 | 6.74E-09 | 3.20E-08 | 2.53E-11 | 3.66E-10 | 5.45E-09 | 5.45E-09 | 2.70E-09 | 1.40E-08 |
| 2395 | 257103.7 | 4085261 | 2.79E-10 | 4.04E-09 | 7.13E-08 | 7.13E-08 | 3.98E-08 | 1.87E-07 | 4.24E-11 | 8.15E-10 | 1.11E-08 | 1.11E-06 | 8.12E-09 | 2.91E-08 | 2.30E-11 | 3.33E-10 | 4.96E-09 | 4.96E-09 | 2.45E-09 | 1.27E-08 |
| 2396 | 257093.7 | 4085240 | 2.54E-10 | 3.68E-09 | 6.49E-08 | 6.49E-08 | 3.62E-08 | 1.70E-07 | 3.86E-11 | 5.60E-10 | 1.01E-08 | 1.01E-08 | 5.57E-09 | 2.64E-08 | 2.10E-11 | 3.03E-10 | 4.51E-09 | 4.51E-09 | 2.23E-09 | 1.16E-08 |
| 2397 | 257083.6 | 4085216 | 2.33E-10 | 3.37E-09 | 5.95E-08 | 5.95E-08 | 3.31E-08 | 1.56E-07 | 3.53E-11 | 5.13E-10 | 9.28E-09 | 9.28E-09 | 5.10E-09 | 2.42E-08 | 1.92E-11 | 2.78E-10 | 4.13E-09 | 4.13E-09 | 2.04E-09 | 1.06E-08 |
| 2398 | 257073.6 | 4085196 | 2.15E-10 | 3.11E-09 | 5.49E-08 | 5.49E-08 | 3.06E-08 | 1.44E-07 | 3.26E-11 | 4.73E-10 | 6.57E-09 | 8.57E-09 | 4.71E-09 | 2.24E-08 | 1.77E-11 | 2.56E-10 | 3.81E-09 | 3.81E-09 | 1.89E-09 | 9.78E-09 |
| 2399 | 257585.3 | 4085855 | 5.04E-10 | 7.29E-09 | 1.29E-07 | 1.29E-07 | 7.18E-08 | 3.37E-07 | 7.65E-11 | 1.11E-09 | 2.01E-08 | 2.01E-08 | 1.11E-08 | 5.24E-08 | 4.15E-11 | 6.01E-10 | 8.94E-09 | 8.94E-09 | 4.43E-09 | 2.30E-08 |
| 2400 | 257609.6 | 4085854 | 5.06E-10 | 7.32E-09 | 1.29E-07 | 1.29E-07 | 7.21E-08 | 3.39E-07 | 7.69E-11 | 1.12E-09 | 2.02E-08 | 2.02E-08 | 1.11E-08 | 5.27E-08 | 4.17E-11 | 6.04E-10 | 6.99E-09 | 6.99E-09 | 4.45E-09 | 2.31E-08 |
| 2401 | 257633.9 | 4085633 | 5.08E-10 | 7.34E-09 | 1.30E-07 | 1.30E-07 | 7.23E-08 | 3.39E-07 | 7.70E-11 | 1.12E-09 | 2.02E-08 | 2.02E-08 | 1.11E-08 | 5.28E-08 | 4.16E-11 | 6.05E-10 | 9.01E-09 | 9.01E-09 | 4.46E-09 | 2.31E-08 |
| 2402 | 257658.1 | 4085652 | 5.08E-10 | 7.34E-09 | 1.30E-07 | 1.30E-07 | 7.23E-08 | 3.40E-07 | 7.71E-11 | 1.12E-09 | 2.02E-08 | 2.02E-08 | 1.11E-08 | 5.28E-08 | 4.19E-11 | 6.05E-10 | 9.01E-09 | 9.01E-09 | 4.46E-09 | 2.31E-08 |
| 2403 | 257682.4 | 4085651 | 5.07E-10 | 7.33E-09 | 1.79E-07 | 1.29E-07 | 7.21E-08 | 3.39E-07 | 7.69E-11 | 1.12E-09 | 2.02E-08 | 2.02E-08 | 1.11E-08 | 5.27E-08 | 4.16E-11 | 6.04E-10 | 6.99E-09 | 8.99E-09 | 4.45E-09 | 2.31E-08 |
| 2404 | 257706.7 | 4085650 | 5.05E-10 | 7.30E-09 | 1.29E-07 | 1.29E-07 | 7.16E-08 | 3.37E-07 | 7.66E-11 | 1.11E-09 | 2.01E-08 | 2.01E-08 | 1.11E-08 | 9.23E-08 | 4.16E-11 | 6.01E-10 | 6.95E-09 | 8.95E-09 | 4.43E-09 | 2.30E-08 |
| 2405 | 257731 | 4085649 | 5.01E-10 | 7.25E-09 | 1.28E-07 | 1.28E-07 | 7.14E-08 | 3.35E-07 | 7.61E-11 | 1.10E-09 | 2.00E-08 | 2.00E-08 | 1.10E-08 | 5.22E-08 | 4.13E-11 | 5.96E-10 | 8.90E-09 | 8.90E-09 | 4.40E-09 | 2.28E-08 |
| 2408 | 257755.3 | 4085648 | 4.98E-10 | 7.20E-09 | 1.27E-07 | 1.27E-07 | 7.08E-08 | 3.33E-07 | 7.55E-11 | 1.10E-09 | 1.98E-08 | 1.98E-08 | 1.09E-08 | 5.18E-08 | 4.10E-11 | 5.93E-10 | 8.83E-09 | 8.83E-09 | 4.37E-09 | 2.27E-08 |
| 2407 | 257779.5 | 4085647 | 4.93E-10 | 7.13E-09 | 1.26E-07 | 1.26E-07 | 7.02E-08 | 3.30E-07 | 7.48E-11 | 1.09E-09 | 1.97E-08 | 1.97E-08 | 1.08E-08 | 5.13E-08 | 4.06E-11 | 5.88E-10 | 8.75E-09 | 8.75E-09 | 4.33E-09 | 2.25E-08 |
| 2408 | 257803.8 | 4085645 | 4.88E-10 | 7.06E-09 | 1.25E-07 | 1.25E-07 | 6.95E-08 | 3.26E-07 | 7.41E-11 | 1.08E-09 | 1.95E-08 | 1.95E-08 | 1.07E-08 | 5.08E-08 | 4.02E-11 | 5.82E-10 | 8.66E-09 | 8.66E-09 | 4.29E-09 | 2.22E-08 |
| 2409 | 257828.1 | 4085644 | 4.63E-10 | 6.99E-09 | 1.23E-07 | 1.23E-07 | 6.88E-08 | 3.23E-07 | 7.33E-11 | 1.06E-09 | 1.93E-08 | 1.93E-08 | 1.06E-08 | 5.02E-08 | 3.96E-11 | 5.76E-10 | 6.57E-09 | 6.57E-09 | 4.24E-09 | 2.20E-08 |
| 2410 | 257852.4 | 4085643 | 4.77E-10 | 6.90E-09 | 1.22E-07 | 1.22E-07 | 6.79E-08 | 3.19E-07 | 7.24E-11 | 1.05E-09 | 1.90E-08 | 1.90E-08 | 1.05E-08 | 4.96E-08 | 3.93E-11 | 5.69E-10 | 6.46E-09 | 6.46E-09 | 4.19E-09 | 2.17E-08 |
| 2411 | 257876.7 | 4085642 | 4.69E-10 | 6.29E-09 | 1.20E-07 | 1.20E-07 | 6.68E-08 | 3.14E-07 | 7.12E-11 | 1.03E-09 | 1.87E-08 | 1.87E-08 | 1.03E-08 | 4.88E-08 | 3.87E-11 | 5.59E-10 | 6.33E-09 | 8.33E-09 | 4.12E-09 | 2.14E-08 |
| 2412 | 257901 | 4085641 | 4.61E-10 | 6.67E-09 | 1.18E-07 | 1.18E-07 | 6.56E-08 | 3.08E-07 | 7.00E-11 | 1.02E-09 | 1.84E-08 | 1.84E-08 | 1.01E-08 | 4.80E-08 | 3.80E-11 | 5.50E-10 | 8.16E-09 | 8.18E-09 | 4.05E-09 | 2.10E-08 |
| 2413 | 257925.2 | 4085640 | 4.52E-10 | 6.54E-09 | 1.15E-07 | 1.15E-07 | 6.44E-08 | 3.02E-07 | 6.86E-11 | 9.96E-10 | 1.80E-08 | 1.80E-08 | 9.91E-09 | 4.70E-08 | 3.73E-11 | 5.39E-10 | 8.02E-09 | 8.02E-09 | 3.97E-09 | 2.06E-08 |
| 2414 | 257949.5 | 4085639 | 4.42E-10 | 6.40E-09 | 1.13E-07 | 1.13E-07 | 6.30E-08 | 2.96E-07 | 6.71E-11 | 9.74E-10 | 1.76E-08 | 1.76E-08 | 9.69E-09 | 4.60E-08 | 3.64E-11 | 5.27E-10 | 7.85E-09 | 7.85E-09 | 3.88E-09 | 2.01E-08 |
| 2415 | 257973.8 | 4085638 | 4.31E-10 | 6.23E-09 | 1.10E-07 | 1.10E-07 | 8.14E-08 | 2.88E-07 | 6.34E-11 | 9.50E-10 | 1.72E-08 | 1.72E-08 | 9.45E-09 | 4.48E-08 | 3.55E-11 | 5.14E-10 | 7.65E-09 | 7.65E-09 | 3.79E-09 | 1.96E-08 |
| 2416 | 257998.1 | 4085637 | 4.19E-10 | 8.07E-09 | 1.07E-07 | 1.07E-07 | 5.97E-08 | 2.80E-07 | 6.37E-11 | 9.24E-10 | 1.67E-08 | 1.67E-08 | 9.20E-09 | 4.36E-08 | 3.46E-11 | 5.00E-10 | 7.44E-09 | 7.44E-09 | 3.68E-09 | 1.91E-08 |
| 2417 | 258022.4 | 4085636 | 4.06E-10 | 5.88E-09 | 1.04E-07 | 1.04E-07 | 5.29E-08 | 2.72E-07 | 8.17E-11 | 8.96E-10 | 1.62E-08 | 1.62E-08 | 8.91E-09 | 4.23E-08 | 3.35E-11 | 4.85E-10 | 7.21E-09 | 7.21E-09 | 3.57E-09 | 1.85E-08 |
| 2416 | 258046.6 | 4085635 | 3.93E-10 | 5.68E-09 | 1.00E-07 | 1.00E-07 | 5.59E-08 | 2.63E-07 | 5.96E-11 | 8.65E-10 | 1.57E-08 | 1.57E-08 | 8.61E-09 | 4.09E-08 | 3.24E-11 | 4.68E-10 | 8.97E-09 | 8.97E-09 | 3.45E-09 | 1.79E-08 |
| 2419 | 258070.9 | 4085634 | 3.79E-10 | 5.48E-09 | 9.67E-08 | 9.67E-08 | 5.39E-08 | 2.53E-07 | 5.75E-11 | 6.35E-10 | 1.51E-08 | 1.51E-08 | 8.30E-09 | 3.94E-08 | 3.12E-11 | 4.52E-10 | 6.72E-09 | 6.72E-09 | 3.33E-09 | 1.72E-08 |
| 2420 | 258095.2 | 4085833 | 3.65E-10 | 5.28E-09 | 9.32E-08 | 9.32E-08 | 5.20E-08 | 2.44E-07 | 5.54E-11 | 8.04E-10 | 1.46E-08 | 1.46E-08 | 8.00E-09 | 3.80E-08 | 3.01E-11 | 4.35E-10 | 6.47E-09 | 6.47E-09 | 3.20E-09 | 1.66E-08 |
| 2421 | 258119.5 | 4085631 | 3.51E-10 | 5.08E-09 | 8.97E-08 | 8.97E-08 | 5.00E-08 | 2.35E-07 | 5.33E-11 | 7.74E-10 | 1.40E-08 | 1.40E-08 | 7.70E-09 | 3.66E-08 | 2.90E-11 | 4.19E-10 | 6.23E-09 | 6.23E-09 | 3.09E-09 | 1.60E-08 |
| 2422 | 258143.8 | 4085630 | 3.38E-10 | 4.89E-09 | 8.64E-08 | 8.64E-08 | 4.82E-08 | 2.26E-07 | 5.13E-11 | 7.45E-10 | 1.35E-08 | 1.35E-08 | 7.41E-09 | 3.52E-08 | 2.79E-11 | 4.03E-10 | 6.00E-09 | 6.00E-09 | 2.97E-09 | 1.54E-08 |
| 2423 | 258168.1 | 4085629 | 3.25E-10 | 4.70E-09 | 8.31E-08 | 8.31E-08 | 4.63E-08 | 2.17E-07 | 4.94E-11 | 7.17E-10 | 1.30E-08 | 1.30E-08 | 7.13E-09 | 3.38E-08 | 2.68E-11 | 3.88E-10 | 5.77E-09 | 5.77E-09 | 2.86E-09 | 1.48E-08 |
| 2424 | 258192.3 | 4085628 | 3.12E-10 | 4.51E-09 | 7.97E-08 | 7.97E-08 | 4.44E-08 | 2.09E-07 | 4.73E-11 | 6.87E-10 | 1.24E-08 | 1.24E-08 | 6.84E-09 | 3.24E-08 | 2.57E-11 | 3.72E-10 | 5.53E-09 | 5.53E-09 | 2.74E-09 | 1.42E-08 |
| 2425 | 258216.6 | 4085827 | 2.97E-10 | 4.29E-09 | 7.58E-08 | 7.58E-08 | 4.23E-08 | 1.98E-07 | 4.51E-11 | 6.54E-10 | 1.18E-08 | 1.18E-08 | 6.51E-09 | 3.09E-08 | 2.45E-11 | 3.54E-10 | 5.27E-09 | 5.27E-09 | 2.61E-09 | 1.35E-08 |
| 2426 | 258240.9 | 4085626 | 2.84E-10 | 4.10E-09 | 7.24E-08 | 7.24E-08 | 4.04E-08 | 1.90E-07 | 4.30E-11 | 6.25E-10 | 1.13E-08 | 1.13E-08 | 6.22E-09 | 2.95E-08 | 2.34E-11 | 3.38E-10 | 5.03E-09 | 5.03E-09 | 2.49E-09 | 1.29E-08 |
| 2427 | 258265.2 | 4085625 | 2.70E-10 | 3.91E-09 | 8.90E-08 | 8.90E-08 | 3.85E-08 | 1.81E-07 | 4.10E-11 | 5.96E-10 | 1.08E-08 | 1.08E-08 | 5.93E-09 | 2.81E-08 | 2.23E-11 | 3.22E-10 | 4.80E-09 | 4.80E-09 | 2.37E-09 | 1.23E-08 |
| 2426 | 258289.5 | 4085624 | 2.57E-10 | 3.72E-09 | 6.57E-08 | 6.57E-08 | 3.66E-08 | 1.72E-07 | 3.91E-11 | 5.67E-10 | 1.03E-08 | 1.03E-08 | 9.64E-09 | 2.68E-08 | 2.12E-11 | 3.07E-10 | 4.57E-09 | 4.57E-09 | 2.26E-09 | 1.17E-08 |
| 2429 | 258313.7 | 4085623 | 2.45E-10 | 3.54E-09 | 6.25E-08 | 8.25E-08 | 3.48E-08 | 1.54E-07 | 3.71E-11 | 5.39E-10 | 9.75E-09 | 9.73E-09 | 5.36E-09 | 2.54E-08 | 2.02E-11 | 2.92E-10 | 4.34E-09 | 4.34E-09 | 2.15E-09 | 1.11E-08 |
| 2430 | 258358 | 4085622 | 2.32E-10 | 3.56E-09 | 5.93E-08 | 5.93E-08 | 3.31E-08 | 1.55E-07 | 3.53E-11 | 5.12E-10 | 9.26E-09 | 9.26E-09 | 5.09E-09 | 2.42E-08 | 1.91E-11 | 2.77E-10 | 4.12E-09 | 4.12E-09 | 2.04E-09 | 1.06E-08 |
| 2431 | 258362.3 | 4085621 | 2.20E-10 | 3.19E-09 | 5.63E-08 | 5.63E-08 | 3.14E-08 | 1.47E-07 | 3.35E-11 | 4.86E-10 | 8.79E-09 | 8.79E-09 | 4.83E-09 | 2.29E-08 | 1.82E-11 | 2.63E-10 | 3.91E-09 | 3.91E-09 | 1.94E-09 | 1.00E-08 |
| 2432 | 258386.6 | 4085620 | 2.10E-10 | 3.04E-09 | 5.36E-08 | 5.36E-08 | 2.99E-08 | 1.40E-07 | 3.19E-11 | 4.63E-10 | 8.37E-09 | 8.37E-09 | 4.60E-09 | 2.18E-08 | 1.73E-11 | 2.50E-10 | 3.77E-09 | 3.72E-09 | 1.84E-09 | 9.56E-09 |
| 2433 | 257566.9 | 4085747 | 3.93E-10 | 5.68E-09 | 1.00E-07 | 1.00E-07 | 5.59E-08 | 2.63E-07 | 5.96E-11 | 6.65E-10 | 1.57E-08 | 1.57E-08 | 8.61E-09 | 4.08E-08 | 3.24E-11 | 4.68E-10 | 6.97E-09 | 6.97E-09 | 3.45E-09 | 1.79E-08 |
| 2434 | 257544.1 | 4085738 | 4.00E-10 | 5.79E-09 | 1.02E-07 | 1.02E-07 | 5.70E-08 | 2.68E-07 | 6.08E-11 | 8.82E-10 | 1.60E-08 | 1.60E-08 | 8.78E-09 | 4.16E-08 | 3.30E-11 | 4.77E-10 | 7.10E-09 | 7.10E-09 | 3.52E-09 | 1.82E-08 |
| 2435 | 257521.3 | 4085730 | 4.08E-10 | 5.89E-09 | 1.04E-07 | 1.04E-07 | 5.80E-08 | 2.72E-07 | 6.18E-11 | 8.98E-10 | 1.63E-08 | 1.85E-08 | 8.93E-09 | 4.24E-08 | 3.36E-11 | 4.86E-10 | 7.23E-09 | 7.23E-09 | 3.58E-09 | 1.86E-08 |
| 2436 | 257498.5 | 4085722 | 4.14E-10 | 5.99E-09 | 1.06E-07 | 1.06E-07 | 5.90E-08 | 2.77E-07 | 6.25E-11 | 9.13E-10 | 1.65E-08 | 1.65E-08 | 9.08E-09 | 4.31E-08 | 3.41E-11 | 4.94E-10 | 7.35E-09 | 7.35E-09 | 3.64E-09 | 1.89E-08 |
| 2437 | 257475.7 | 4085713 | 4.20E-10 | 6.08E-09 | 1.07E-07 | 1.07E-07 | 5.98E-08 | 2.81E-07 | 6.38E-11 | 9.26E-10 | 1.66E-08 | 1.68E-08 | 9.21E-09 | 4.37E-08 | 3.46E-11 | 5.01E-10 | 7.46E-09 | 7.46E-09 | 3.69E-09 | 1.91E-08 |
| 2438 | 257452.9 | 4085705 | 4.26E-10 | 6.15E-09 | 1.09E-07 | 1.09E-07 | 6.06E-08 | 2.85E-07 | 6.46E-11 | 9.38E-10 | 1.70E-08 | 1.70E-08 | 9.33E-09 | 4.43E-08 | 3.51E-11 | 5.07E-10 | 7.55E-09 | 7.55E-09 | 3.74E-09 | 1.94E-08 |
| 2439 | 257430.1 | 4085697 | 4.30E-10 | 6.22E-09 | 1.10E-07 | 1.10E-07 | 6.13E-08 | 2.88E-07 | 6.53E-11 | 9.48E-10 | 1.72E-08 | 1.72E-08 | 9.43E-09 | 4.46E-08 | 3.55E-11 | 5.13E-10 | 7.63E-09 | 7.63E-09 | 3.78E-09 | 1.96E-08 |
| 2440 | 257407.3 | 4085688 | 4.34E-10 | 8.28E-09 | 1.11E-07 | 1.11E-07 | 6.18E-08 | 2.90E-07 | 6.59E-11 | 9.57E-10 | 1.73E-08 | 1.73E-08 | 9.52E-09 | 4.52E-08 | 3.58E-11 | 5.18E-10 | 7.70E-09 | 7.70E-09 | 3.81E-09 | 1.98E-08 |
| 2441 | 257384.5 | 4085680 | 4.38E-10 | 6.33E-09 | 1.12E-07 | 1.12E-07 | 6.23E-08 | 2.93E-07 | 6.64E-11 | 9.64E-10 | 1.74E-08 | 1.74E-08 | 9.59E-09 | 4.55E-08 | 3.61E-11 | 5.22E-10 | 7.76E-09 | 7.76E-09 | 3.84E-09 | 1.99E-08 |
| 2442 | 257361.7 | 4085672 | 4.40E-10 | 6.36E-09 | 1.12E-07 | 1.12E-07 | 6.28E-08 | 2.94E-07 | 6.68E-11 | 9.69E-10 | 1.75E-08 | 1.75E-08 | 9.65E-09 | 4.58E-08 | 3.63E-11 | 5.24E-10 | 7.81E-09 | 7.81E-09 | 3.86E-09 | 2.00E-08 |
| 2443 | 257338.9 | 4085663 | 4.41E-10 | 6.38E-09 | 1.13E-07 | 1.13E-07 | 6.28E-08 | 2.95E-07 | 6.69E-11 | 9.77E-10 | 1.76E-08 | 1.76E-08 | 9.67E-09 | 4.59E-08 | 3.63E-11 | 5.26E-10 | 7.82E-09 | 7.82E-09 | 3.87E-09 | 2.01E-08 |
| 2444 | 257316.1 | 4085655 | 4.41E-10 | 6.37E-09 | 1.13E-07 | 1.13E-07 | 6.28E-08 | 2.95E-07 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2239 | 257914.2 | 4085390 | 1.29E-09 | 1.87E-08 | 3.30E-07 | 3.30E-07 | 1.84E-07 | 8.63E-07 | 1.96E-10 | 2.84E-09 | 5.13E-08 | 3.15E-08 | 2.83E-08 | 1.34E-07 | 1.06E-10 | 1.54E-09 | 2.29E-08 | 2.29E-08 | 1.13E-08 | 3.88E-08 |
| 2240 | 257938.5 | 4083389 | 1.27E-09 | 1.84E-08 | 3.24E-07 | 3.24E-07 | 1.81E-07 | 8.49E-07 | 1.93E-10 | 2.80E-09 | 5.07E-08 | 5.07E-08 | 2.78E-08 | 1.32E-07 | 1.05E-10 | 1.51E-09 | 2.25E-08 | 2.25E-08 | 1.12E-08 | 3.78E-08 |
| 2241 | 237962.7 | 4085388 | 1.25E-09 | 1.80E-08 | 3.18E-07 | 3.16E-07 | 1.77E-07 | 8.33E-07 | 1.89E-10 | 2.75E-09 | 4.97E-08 | 4.97E-08 | 2.73E-08 | 1.30E-07 | 1.03E-10 | 1.49E-09 | 2.21E-08 | 2.21E-08 | 1.09E-08 | 3.66E-08 |
| 2242 | 257987 | 4083387 | 1.22E-09 | 1.76E-08 | 3.12E-07 | 3.12E-07 | 1.74E-07 | 8.16E-07 | 1.85E-10 | 2.69E-09 | 4.86E-08 | 4.86E-08 | 2.67E-08 | 1.27E-07 | 1.01E-10 | 1.45E-09 | 2.16E-08 | 2.16E-08 | 1.07E-08 | 3.35E-08 |
| 2243 | 258011.3 | 4083386 | 1.19E-09 | 1.72E-08 | 3.04E-07 | 3.04E-07 | 1.69E-07 | 7.96E-07 | 1.81E-10 | 2.62E-09 | 4.75E-08 | 4.75E-08 | 2.61E-08 | 1.24E-07 | 9.81E-11 | 1.42E-09 | 2.11E-08 | 2.11E-08 | 1.05E-08 | 3.42E-08 |
| 2244 | 258035.6 | 4085385 | 1.16E-09 | 1.67E-08 | 2.96E-07 | 2.96E-07 | 1.65E-07 | 7.74E-07 | 1.76E-10 | 2.55E-09 | 4.62E-08 | 4.62E-08 | 2.54E-08 | 1.20E-07 | 9.54E-11 | 1.36E-09 | 2.05E-08 | 2.05E-08 | 1.02E-08 | 5.27E-08 |
| 2245 | 258059.9 | 4085384 | 1.12E-09 | 1.62E-08 | 2.87E-07 | 2.87E-07 | 1.60E-07 | 7.51E-07 | 1.70E-10 | 2.47E-09 | 4.48E-08 | 4.48E-08 | 2.46E-08 | 1.17E-07 | 9.25E-11 | 1.34E-09 | 1.99E-08 | 1.99E-08 | 9.86E-09 | 5.11E-08 |
| 2246 | 258084.1 | 4085383 | 1.08E-09 | 1.57E-08 | 2.77E-07 | 2.77E-07 | 1.54E-07 | 7.25E-07 | 1.65E-10 | 2.39E-09 | 4.32E-08 | 4.32E-08 | 2.38E-08 | 1.13E-07 | 8.94E-11 | 1.29E-09 | 1.92E-08 | 1.92E-08 | 9.52E-09 | 4.94E-08 |
| 2247 | 258108.4 | 4085382 | 1.04E-09 | 1.51E-08 | 2.66E-07 | 2.66E-07 | 1.48E-07 | 6.97E-07 | 1.58E-10 | 2.30E-09 | 4.15E-08 | 4.15E-08 | 2.28E-08 | 1.08E-07 | 8.59E-11 | 1.24E-09 | 1.85E-08 | 1.85E-08 | 9.15E-09 | 4.74E-08 |
| 2248 | 258132.7 | 4085381 | 9.96E-10 | 1.44E-08 | 2.54E-07 | 2.54E-07 | 1.42E-07 | 6.66E-07 | 1.51E-10 | 2.19E-09 | 3.97E-08 | 3.97E-08 | 2.18E-08 | 1.04E-07 | 8.21E-11 | 1.19E-09 | 1.77E-08 | 1.77E-08 | 8.75E-09 | 4.54E-08 |
| 2249 | 258157 | 4085380 | 9.47E-10 | 1.37E-08 | 2.42E-07 | 2.42E-07 | 1.35E-07 | 6.33E-07 | 1.44E-10 | 2.09E-09 | 3.76E-08 | 3.78E-08 | 2.03E-08 | 9.85E-08 | 7.80E-11 | 1.13E-09 | 1.68E-08 | 1.68E-08 | 8.32E-09 | 4.31E-08 |
| 2250 | 258161.3 | 4085376 | 8.95E-10 | 1.29E-08 | 2.29E-07 | 2.29E-07 | 1.27E-07 | 5.98E-07 | 1.36E-10 | 1.97E-09 | 3.57E-08 | 3.57E-08 | 1.96E-08 | 9.31E-08 | 7.38E-11 | 1.07E-09 | 1.59E-08 | 1.59E-08 | 7.86E-09 | 4.08E-08 |
| 2251 | 258205.6 | 4085377 | 8.42E-10 | 1.22E-08 | 2.15E-07 | 2.15E-07 | 1.20E-07 | 5.63E-07 | 1.26E-10 | 1.85E-09 | 3.36E-08 | 3.36E-08 | 1.85E-08 | 8.76E-08 | 6.94E-11 | 1.00E-09 | 1.49E-08 | 1.49E-08 | 7.39E-09 | 3.83E-08 |
| 2252 | 258229.8 | 4085376 | 7.88E-10 | 1.14E-08 | 2.01E-07 | 2.01E-07 | 1.12E-07 | 5.27E-07 | 1.20E-10 | 1.74E-09 | 3.14E-08 | 3.14E-08 | 1.73E-08 | 8.20E-08 | 6.50E-11 | 9.40E-10 | 1.40E-08 | 1.40E-08 | 6.92E-09 | 3.59E-08 |
| 2253 | 258254.1 | 4085375 | 7.36E-10 | 1.06E-08 | 1.88E-07 | 1.88E-07 | 1.05E-07 | 4.92E-07 | 1.12E-10 | 1.62E-09 | 2.93E-08 | 2.93E-08 | 1.61E-08 | 7.65E-08 | 6.06E-11 | 8.77E-10 | 1.31E-08 | 1.31E-08 | 6.46E-09 | 3.35E-08 |
| 2254 | 258276.4 | 4085374 | 6.84E-10 | 9.89E-09 | 1.75E-07 | 1.75E-07 | 9.73E-08 | 4.57E-07 | 1.04E-10 | 1.51E-09 | 2.73E-08 | 2.73E-08 | 1.50E-08 | 7.11E-08 | 5.64E-11 | 8.15E-10 | 1.21E-08 | 1.21E-08 | 6.00E-09 | 3.11E-08 |
| 2253 | 258302.7 | 4085373 | 6.32E-10 | 9.14E-09 | 1.61E-07 | 1.61E-07 | 9.00E-08 | 4.23E-07 | 9.59E-11 | 1.39E-09 | 2.52E-08 | 2.52E-08 | 1.39E-08 | 6.58E-08 | 5.21E-11 | 7.54E-10 | 1.12E-08 | 1.12E-08 | 5.55E-09 | 2.88E-08 |
| 2256 | 258327 | 4085377 | 5.82E-10 | 6.41E-09 | 1.49E-07 | 1.49E-07 | 8.28E-08 | 3.89E-07 | 8.83E-11 | 1.28E-09 | 2.32E-08 | 2.32E-08 | 1.28E-08 | 6.05E-08 | 4.80E-11 | 8.94E-10 | 1.03E-08 | 1.03E-08 | 5.11E-09 | 2.65E-08 |
| 2297 | 258351.2 | 4085371 | 3.34E-10 | 7.72E-09 | 1.36E-07 | 1.36E-07 | 7.80E-08 | 3.57E-07 | 8.10E-11 | 1.18E-09 | 2.13E-08 | 2.13E-08 | 1.17E-08 | 5.55E-08 | 4.40E-11 | 6.36E-10 | 9.47E-09 | 9.47E-09 | 4.69E-09 | 2.43E-08 |
| 2258 | 258375.5 | 4085370 | 4.89E-10 | 7.08E-09 | 1.25E-07 | 1.25E-07 | 6.97E-08 | 3.27E-07 | 7.43E-11 | 1.08E-09 | 1.95E-08 | 1.95E-08 | 1.07E-08 | 5.09E-08 | 4.03E-11 | 5.63E-10 | 8.68E-09 | 8.68E-09 | 4.30E-09 | 2.23E-08 |
| 2259 | 257554.8 | 4085447 | 1.00E-09 | 1.45E-08 | 2.56E-07 | 2.56E-07 | 1.43E-07 | 6.71E-07 | 1.52E-10 | 2.21E-09 | 4.00E-08 | 4.00E-08 | 2.20E-08 | 1.04E-07 | 8.27E-11 | 1.20E-09 | 1.78E-08 | 1.78E-08 | 6.82E-09 | 4.57E-08 |
| 2260 | 257533.1 | 4085439 | 1.01E-09 | 1.46E-08 | 2.58E-07 | 2.58E-07 | 1.44E-07 | 6.75E-07 | 1.53E-10 | 2.22E-09 | 4.03E-08 | 4.03E-08 | 2.21E-08 | 1.05E-07 | 8.32E-11 | 1.20E-09 | 1.79E-08 | 1.79E-08 | 8.87E-09 | 4.60E-08 |
| 2261 | 257511.5 | 4085432 | 1.01E-09 | 1.46E-08 | 2.58E-07 | 2.58E-07 | 1.44E-07 | 6.76E-07 | 1.53E-10 | 2.23E-09 | 4.03E-08 | 4.03E-08 | 2.22E-08 | 1.05E-07 | 8.33E-11 | 1.20E-09 | 1.79E-08 | 1.79E-08 | 8.87E-09 | 4.60E-08 |
| 2262 | 257489.8 | 4085424 | 1.01E-09 | 1.45E-08 | 2.57E-07 | 2.57E-07 | 1.43E-07 | 6.72E-07 | 1.53E-10 | 2.22E-09 | 4.01E-08 | 4.01E-08 | 2.20E-08 | 1.05E-07 | 8.29E-11 | 1.20E-09 | 1.78E-08 | 1.78E-08 | 8.83E-09 | 4.58E-08 |
| 2263 | 257468.1 | 4085416 | 9.95E-10 | 1.44E-08 | 2.54E-07 | 2.54E-07 | 1.42E-07 | 6.85E-07 | 1.51E-10 | 2.19E-09 | 3.97E-08 | 3.97E-08 | 2.18E-08 | 1.04E-07 | 8.20E-11 | 1.19E-09 | 1.77E-08 | 1.77E-08 | 8.74E-09 | 4.53E-08 |
| 2264 | 237446.5 | 4085408 | 9.78E-10 | 1.41E-08 | 2.50E-07 | 2.50E-07 | 1.39E-07 | 6.54E-07 | 1.48E-10 | 2.15E-09 | 3.90E-08 | 3.90E-08 | 2.14E-08 | 1.02E-07 | 8.06E-11 | 1.17E-09 | 1.73E-08 | 1.73E-08 | 6.59E-09 | 4.45E-08 |
| 2265 | 257424.8 | 4085400 | 9.53E-10 | 1.38E-08 | 2.43E-07 | 2.43E-07 | 1.36E-07 | 6.37E-07 | 1.45E-10 | 2.10E-09 | 3.80E-08 | 3.80E-08 | 2.09E-08 | 9.91E-08 | 7.85E-11 | 1.14E-09 | 1.69E-08 | 1.69E-08 | 8.37E-09 | 4.34E-08 |
| 2266 | 257403.2 | 4085392 | 9.20E-10 | 1.33E-08 | 2.35E-07 | 2.35E-07 | 1.31E-07 | 6.13E-07 | 1.40E-10 | 2.03E-09 | 3.67E-08 | 3.67E-08 | 2.02E-08 | 9.57E-08 | 7.56E-11 | 1.10E-09 | 1.63E-08 | 1.63E-08 | 6.08E-09 | 4.19E-08 |
| 2267 | 237381.5 | 4085384 | 8.81E-10 | 1.27E-08 | 2.25E-07 | 2.25E-07 | 1.26E-07 | 5.89E-07 | 1.34E-10 | 1.94E-09 | 3.52E-08 | 3.52E-08 | 1.93E-08 | 9.17E-08 | 7.27E-11 | 1.05E-09 | 1.56E-08 | 1.56E-08 | 7.74E-09 | 4.01E-08 |
| 2268 | 237350.2 | 4085353 | 8.42E-10 | 1.22E-08 | 2.13E-07 | 2.15E-07 | 1.20E-07 | 5.63E-07 | 1.28E-10 | 1.86E-09 | 3.36E-08 | 3.36E-08 | 1.83E-08 | 8.76E-08 | 6.94E-11 | 1.00E-09 | 1.49E-08 | 1.49E-08 | 7.40E-09 | 3.84E-08 |
| 2269 | 257340.5 | 4085334 | 8.37E-10 | 1.21E-08 | 2.14E-07 | 2.14E-07 | 1.19E-07 | 5.60E-07 | 1.27E-10 | 1.84E-09 | 3.34E-08 | 3.34E-08 | 1.83E-08 | 8.71E-08 | 6.90E-11 | 9.98E-10 | 1.48E-08 | 1.48E-08 | 7.35E-09 | 3.81E-08 |
| 2270 | 257330.9 | 4085313 | 8.20E-10 | 1.19E-08 | 2.09E-07 | 2.09E-07 | 1.17E-07 | 5.48E-07 | 1.24E-10 | 1.81E-09 | 3.27E-08 | 3.27E-08 | 1.80E-08 | 8.53E-08 | 6.76E-11 | 9.78E-10 | 1.46E-08 | 1.46E-08 | 7.20E-09 | 3.73E-08 |
| 2271 | 257321.2 | 4085292 | 7.90E-10 | 1.14E-08 | 2.02E-07 | 2.02E-07 | 1.12E-07 | 5.28E-07 | 1.20E-10 | 1.74E-09 | 3.15E-08 | 3.15E-08 | 1.73E-08 | 8.22E-08 | 6.51E-11 | 9.42E-10 | 1.40E-08 | 1.40E-08 | 6.94E-09 | 3.60E-08 |
| 2272 | 237311.8 | 4085271 | 7.46E-10 | 1.08E-08 | 1.91E-07 | 1.91E-07 | 1.06E-07 | 4.99E-07 | 1.13E-10 | 1.64E-09 | 2.98E-08 | 2.98E-08 | 1.64E-08 | 7.77E-08 | 8.13E-11 | 8.90E-10 | 1.32E-08 | 1.32E-08 | 6.56E-09 | 3.40E-08 |
| 2273 | 237302 | 4085251 | 6.92E-10 | 1.00E-08 | 1.77E-07 | 1.77E-07 | 9.86E-08 | 4.63E-07 | 1.05E-10 | 1.53E-09 | 2.76E-08 | 2.76E-08 | 1.52E-08 | 7.20E-08 | 5.71E-11 | 8.25E-10 | 1.23E-08 | 1.23E-08 | 6.08E-09 | 3.15E-08 |
| 2274 | 237292.3 | 4083230 | 6.31E-10 | 9.13E-09 | 1.61E-07 | 1.61E-07 | 6.99E-08 | 4.22E-07 | 9.58E-11 | 1.39E-09 | 2.52E-08 | 2.52E-08 | 1.38E-08 | 6.57E-08 | 5.20E-11 | 7.53E-10 | 1.12E-08 | 1.12E-08 | 5.54E-09 | 2.87E-08 |
| 2275 | 257262.7 | 4085209 | 5.68E-10 | 6.22E-09 | 1.43E-07 | 1.45E-07 | 8.09E-08 | 3.80E-07 | 8.63E-11 | 1.25E-09 | 2.27E-08 | 2.27E-08 | 1.25E-08 | 5.91E-08 | 4.69E-11 | 6.78E-10 | 1.01E-08 | 1.01E-08 | 4.99E-09 | 2.59E-08 |
| 2276 | 237773 | 4085188 | 5.08E-10 | 7.34E-09 | 1.30E-07 | 1.30E-07 | 7.23E-08 | 3.39E-07 | 7.70E-11 | 1.12E-09 | 2.02E-08 | 2.02E-08 | 1.11E-08 | 5.28E-08 | 4.18E-11 | 6.05E-10 | 9.00E-09 | 9.00E-09 | 4.46E-09 | 2.31E-08 |
| 2277 | 237376.4 | 4085455 | 9.93E-10 | 1.44E-08 | 2.54E-07 | 2.54E-07 | 1.41E-07 | 6.64E-07 | 1.51E-10 | 2.19E-09 | 3.96E-08 | 3.96E-08 | 2.18E-08 | 1.03E-07 | 8.18E-11 | 1.18E-09 | 1.76E-08 | 1.76E-08 | 8.72E-09 | 4.52E-08 |
| 2278 | 257600.7 | 4085454 | 1.01E-09 | 1.47E-08 | 2.59E-07 | 2.59E-07 | 1.44E-07 | 6.78E-07 | 1.54E-10 | 2.24E-09 | 4.04E-08 | 4.04E-08 | 2.22E-08 | 1.06E-07 | 8.36E-11 | 1.21E-09 | 1.80E-08 | 1.80E-08 | 6.91E-09 | 4.62E-08 |
| 2279 | 257625 | 4085453 | 1.03E-09 | 1.49E-08 | 2.64E-07 | 2.64E-07 | 1.47E-07 | 6.90E-07 | 1.57E-10 | 2.27E-09 | 4.11E-08 | 4.11E-08 | 2.26E-08 | 1.07E-07 | 8.51E-11 | 1.23E-09 | 1.83E-08 | 1.83E-08 | 9.06E-09 | 4.70E-08 |
| 2280 | 237649.3 | 4085452 | 1.05E-09 | 1.31E-08 | 2.67E-07 | 2.67E-07 | 1.49E-07 | 6.99E-07 | 1.59E-10 | 2.30E-09 | 4.17E-08 | 4.17E-08 | 2.29E-08 | 1.09E-07 | 8.62E-11 | 1.25E-09 | 1.85E-08 | 1.85E-08 | 9.18E-09 | 4.76E-08 |
| 2261 | 237673.6 | 4085451 | 1.05E-09 | 1.32E-08 | 2.68E-07 | 2.66E-07 | 1.50E-07 | 7.03E-07 | 1.59E-10 | 2.32E-09 | 4.19E-08 | 4.19E-08 | 2.30E-08 | 1.09E-07 | 8.66E-11 | 1.25E-09 | 1.86E-08 | 1.86E-08 | 9.23E-09 | 4.79E-08 |
| 2282 | 237697.8 | 4085450 | 1.06E-09 | 1.53E-08 | 2.70E-07 | 2.70E-07 | 1.50E-07 | 7.06E-07 | 1.60E-10 | 2.33E-09 | 4.21E-08 | 4.21E-08 | 2.31E-08 | 1.10E-07 | 8.70E-11 | 1.26E-09 | 1.87E-08 | 1.87E-08 | 9.27E-09 | 4.81E-08 |
| 2283 | 237722.1 | 4085449 | 1.06E-09 | 1.33E-08 | 2.71E-07 | 2.71E-07 | 1.51E-07 | 7.09E-07 | 1.61E-10 | 2.33E-09 | 4.23E-08 | 4.23E-08 | 2.32E-08 | 1.10E-07 | 8.74E-11 | 1.26E-09 | 1.88E-08 | 1.88E-08 | 9.31E-09 | 4.83E-08 |
| 2284 | 237746.4 | 4085448 | 1.06E-09 | 1.54E-08 | 2.71E-07 | 2.71E-07 | 1.51E-07 | 7.10E-07 | 1.61E-10 | 2.34E-09 | 4.23E-08 | 4.23E-08 | 2.33E-08 | 1.10E-07 | 8.75E-11 | 1.27E-09 | 1.88E-08 | 1.88E-08 | 9.32E-09 | 4.83E-08 |
| 2285 | 237770.7 | 4085447 | 1.06E-09 | 1.53E-08 | 2.71E-07 | 2.71E-07 | 1.51E-07 | 7.09E-07 | 1.61E-10 | 2.34E-09 | 4.23E-08 | 4.23E-08 | 2.33E-08 | 1.10E-07 | 8.74E-11 | 1.26E-09 | 1.88E-08 | 1.88E-08 | 9.32E-09 | 4.83E-08 |
| 2286 | 257795 | 4085446 | 1.06E-09 | 1.53E-08 | 2.70E-07 | 2.70E-07 | 1.51E-07 | 7.07E-07 | 1.60E-10 | 2.33E-09 | 4.22E-08 | 4.22E-08 | 2.32E-08 | 1.10E-07 | 8.72E-11 | 1.26E-09 | 1.68E-08 | 1.88E-08 | 9.29E-09 | 4.82E-08 |
| 2287 | 257819.3 | 4085445 | 1.05E-09 | 1.52E-08 | 2.68E-07 | 2.68E-07 | 1.50E-07 | 7.03E-07 | 1.60E-10 | 2.32E-09 | 4.19E-08 | 4.19E-08 | 2.30E-08 | 1.09E-07 | 8.66E-11 | 1.25E-09 | 1.66E-08 | 1.86E-08 | 9.23E-09 | 4.79E-08 |
| 2288 | 257843.5 | 4085443 | 1.04E-09 | 1.51E-08 | 2.66E-07 | 2.66E-07 | 1.48E-07 | 6.97E-07 | 1.58E-10 | 2.30E-09 | 4.15E-08 | 4.15E-08 | 2.28E-08 | 1.08E-07 | 8.59E-11 | 1.24E-09 | 1.85E-08 | 1.85E-08 | 9.15E-09 | 4.74E-08 |
| 2289 | 257867.8 | 4085442 | 1.03E-09 | 1.49E-08 | 2.63E-07 | 2.63E-07 | 1.47E-07 | 6.89E-07 | 1.56E-10 | 2.27E-09 | 4.11E-08 | 4.11E-08 | 2.26E-08 | 1.07E-07 | 8.49E-11 | 1.23E-09 | 1.83E-08 | 1.83E-08 | 9.05E-09 | 4.69E-08 |
| 2290 | 257892.1 | 4085441 | 1.02E-09 | 1.47E-08 | 2.60E-07 | 2.60E-07 | 1.45E-07 | 6.79E-07 | 1.54E-10 | 2.24E-09 | 4.05E-08 | 4.05E-08 | 2.23E-08 | 1.06E-07 | 8.37E-11 | 1.21E-09 | 1.80E-08 | 1.80E-08 | 6.92E-09 | 4.63E-08 |
| 2291 | 257916.4 | 4085440 | 1.00E-09 | 1.45E-08 | 2.55E-07 | 2.35E-07 | 1.42E-07 | 6.69E-07 | 1.52E-10 | 2.20E-09 | 3.99E-08 | 3.99E-08 | 2.19E-08 | 1.04E-07 | 8.24E-11 | 1.19E-09 | 1.77E-08 | 1.77E-08 | 8.78E-09 | 4.55E-08 |
| 2292 | 257940.7 | 4085439 | 9.82E-10 | 1.42E-08 | 2.51E-07 | 2.51E-07 | 1.40E-07 | 6.56E-07 | 1.49E-10 | 2.16E-09 | 3.91E-08 | 3.91E-08 | 2.15E-08 | 1.02E-07 | 8.09E-11 | 1.17E-09 | 1.74E-08 | 1.74E-08 | 8.62E-09 | 4.47E-08 |
| 2293 | 257964.9 | 4085438 | 9.61E-10 | 1.39E-08 | 2.46E-07 | 2.46E-07 | 1.37E-07 | 6.43E-07 | 1.45E-10 | 2.12E-09 | 3.83E-08 | 3.85E-08 | 2.11E-08 | 1.00E-07 | 7.92E-11 | 1.15E-09 | 1.71E-08 | 1.71E-08 | 8.44E-09 | 4.36E-08 |
| 2294 | 257989.2 | 4085437 | 9.39E-10 | 1.36E-08 | 2.40E-07 | 2.40E-07 | 1.34E-07 | 6.28E-07 | 1.43E-10 | 2.07E-09 | 3.75E-08 | 3.75E-08 | 2.06E-08 | 9.77E-08 | 7.74E-11 | 1.12E-09 | 1.67E-08 | 1.67E-08 | 8.25E-09 | 4.28E-08 |
| 2295 | 258013.5 | 4085436 | 9.15E-10 | 1.32E-08 | 2.34E-07 | 2.34E-07 | 1.30E-07 | 6.12E-07 | 1.39E-10 | 2.02E-09 | 3.65E-08 | 3.65E-08 | 2.01E-08 | 9.52E-08 | 7.54E-11 | 1.09E-09 | 1.62E-08 | 1.62E-08 | 8.03E-09 | 4.17E-08 |
| 2296 | 258037.8 | 4085435 | 8.88E-10 | 1.28E-08 | 2.27E-07 | 2.27E-07 | 1.26E-07 | 5.94E-07 | 1.35E-10 | 1.96E-09 | 3.54E-08 | 3.64E-08 | 1.95E-08 | 9.24E-08 | 7.32E-11 | 1.06E-09 | 1.58E-08 | 1.58E-08 | 7.80E-09 | 4.04E-08 |
| 2297 | 258062.1 | 4085434 | 8.59E-10 | 1.24E-08 | 2.19E-07 | 2.19E-07 | 1.22E-07 | 5.74E-07 | 1.30E-10 | 1.89E-09 | 3.43E-08 | 3.43E-08 | 1.88E-08 | 8.94E-08 | 7.08E-11 | 1.02E-09 | 1.52E-08 | 1.52E-08 | 7.54E-09 | 3.91E-08 |
| 2298 | 258086.4 | 4085433 | 8.28E-10 | 1.20E-08 | 2.11E-07 | 2.11E-07 | 1.18E-07 | 5.53E-07 | 1.26E-10 | 1.82E-09 | 3.30E-08 | 3.30E-08 | 1.61E-08 | 8.61E-08 | 6.62E-11 | 9.87E-10 | 1.47E-08 | 1.47E-08 | 7.27E-09 | 3.77E-08 |
| 2299 | 258110.6 | 4085432 | 7.93E-10 | 1.15E-08 | 2.03E-07 | 2.03E-07 | 1.13E-07 | 5.31E-07 | 1.20E-10 | 1.75E-09 | 3.16E-08 | 3.16E-08 | 1.74E-08 | 6.26E-08 | 6.54E-11 | 9.46E-10 | 1.41E-08 | 1.41E-08 | 6.97E-09 | 3.81E-08 |
| 2300 | 258134.9 | 4085431 | 7.57E-10 | 1.10E-08 | 1.93E-07 | 1.93E-07 | 1.08E-07 | 5.06E-07 | 1.15E-10 | 1.67E-09 | 3.02E-08 | 3.02E-08 | 1.86E-08 | 7.88E-08 | 8.24E-11 | 9.03E-10 | 1.34E-08 | 1.34E-08 | 6.65E-09 | 3.45E-08 |
| 2501 | 258159.2 | 4085430 | 7.19E-10 | 1.04E-08 | 1.84E-07 | 1.84E-07 | 1.02E-07 | 4.81E-07 | 1.09E-10 | 1.59E-09 | 2.87E-08 | 2.87E-08 | 1.58E-08 | 7.49E-08 | 5.93E-11 | 8.58E-10 | 1.28E-08 | 1.28E-08 | 6.32E-09 | 3.28E-08 |
| 2302 | 258183.5 | 4085428 | 6.81E-10 | 9.85E-09 | 1.74E-07 | 1.74E-07 | 9.70E-08 | 4.55E-07 | 1.03E-10 | 1.50E-09 | 2.72E-08 | 2.77E-08 | 1.49E-08 | 7.09E-08 | 5.61E-11 | 8.12E-10 | 1.21E-08 | 1.21E-08 | 5.98E-09 | 3.10E-08 |
| 2303 | 258207.8 | 4085427 | 6.43E-10 | 9.30E-09 | 1.64E-07 | 1.64E-07 | 9.16E-08 | 4.30E-07 | 9.76E-11 | 1.42E-09 | 2.57E-08 | 2.57E-08 | 1.41E-08 | 6.69E-08 | 5.30E-11 | 7.67E-10 | 1.14E-08 | 1.14E-08 | 5.65E-09 | 2.93E-08 |
| 2304 | 258232 | 4085426 | 6.06E-10 | 8.76E-09 | 1.55E-07 | 1.55E-07 | 8.63E-08 | 4.05E-07 | 9.20E-11 | 1.34E-09 | 2.42E-08 | 2.42E-08 | 1.33E-08 | 6.30E-08 | 4.99E-11 | 7.22E-10 | 1.08E-08 | 1.08E-08 | 5.32E-09 | 2.76E-08 |
| 2305 | 258256.3 | 4085425 | 5.69E-10 | 8.23E-09 | 1.45E-07 | 1.45E-07 | 6.11E-08 | 3.81E-07 | 6.64E-11 | 1.25E-09 | 2.27E-08 | 2.27E-08 | 1.25E-08 | 5.92E-08 | 4.69E-11 | 8.79E-10 | 1.01E-08 | 1.01E-08 | 5.00E-09 | 2.59E-08 |
| 2306 | 258280.6 | 4085424 | 3.33E-10 | 7.70E-09 | 1.36E-07 | 1.36E-07 | 7.58E-08 | 3.56E-07 | 6.08E-11 | 1.17E-09 | 2.12E-08 | 2.12E-08 | 1.17E-08 | 5.54E-08 | 4.39E-11 | 8.35E-10 | 9.45E-09 | 9.45E-09 | 4.66E-09 | 2.43E-08 |
| 2307 | 258304.9 | 4085423 | 4.96E-10 | 7.18E-09 | 1.27E-07 | 1.27E-07 | 7.07E-08 | 3.32E-07 | 7.53E-11 | 1.09E-09 | 1.98E-08 | 1.98E-08 | 1.09E-08 | 5.16E-08 | 4.09E-11 | 3.92E-10 | 8.81E-09 | 8.81E-09 | 4.36E-09 | 2.26E-08 |
| 2308 | 258329.2 | 4085422 | 4.61E-10 | 6.67E-09 | 1.18E-07 | 1.18E-07 | 6.56E-08 | 3.08E-07 | 7.00E-11 | 1.02E-09 | 1.84E-08 | 1.84E-08 | 1.01E-08 | 4.80E-08 | 3.80E-11 | 3.50E-10 | 8.18E-09 | 8.16E-09 | 4.05E-09 | 2.10E-08 |
| 2309 | 258353.5 | 4085421 | 4.27E-10 | 6.18E-09 | 1.09E-07 | 1.09E-07 | 6.09E-08 | 2.86E-07 | 6.49E-11 | 9.42E-10 | 1.70E-08 | 1.70E-08 | 9.37E-09 | 4.45E-08 | 3.52E-11 | 3.09E-10 | 7.58E-09 | 7.58E-09 | 3.75E-09 | 1.95E-08 |
| 2310 | 258377.7 | 4085420 | 3.96E-10 | 5.73E-09 | 1.01E-07 | 1.01E-07 | 5.64E-08 | 2.65E-07 | 6.01E-11 | 6.72E-10 | 1.58E-08 | 1.58E-08 | 8.68E-09 | 4.12E-08 | 3.26E-11 | 4.72E-10 | 7.02E-09 | 7.02E-09 | 3.48E-09 | 1.80E-08 |
| 2311 | 257558.6 | 4085547 | 7.01E-10 | 1.01E-08 | 1.79E-07 | 1.79E-07 | 9.99E-08 | 4.69E-07 | 1.06E-10 | 1.55E-09 | 2.80E-08 | 2.80E-08 | 1.54E-08 | 7.30E-08 | 5.78E-11 | 8.36E-10 | 1.24E-08 | 1.24E-08 | 6.16E-09 | 3.19E-08 |
| 2312 | 257536.4 | 4085539 | 7.14E-10 | 1.03E-08 | 1.82E-07 | 1.82E-07 | 1.02E-07 | 4.78E-07 | 1.08E-10 | 1.57E-09 | 2.85E-08 | 2.85E-08 | 1.57E-08 | 7.43E-08 | 5.89E-11 | 8.52E-10 | 1.27E-08 | 1.27E-08 | 6.27E-09 | 3.25E-08 |
| 2313 | 257514.2 | 4085531 | 7.22E-10 | 1.04E-08 | 1.84E-07 | 1.84E-07 | 1.03E-07 | 4.83E-07 | 1.10E-10 | 1.59E-09 | 2.88E-08 | 2.88E-08 | 1.58E-08 | 7.51E-08 | 5.95E-11 | 8.60E-10 | 1.28E-08 | 1.28E-08 | 6.34E-09 | 3.29E-08 |
| 2314 | 257492 | 4085523 | 7.27E-10 | 1.05E-08 | 1.86E-07 | 1.86E-07 | 1.03E-07 | 4.86E-07 | 1.10E-10 | 1.60E-09 | 2.90E-08 | 2.90E-08 | 1.59E-08 | 7.56E-08 | 5.99E-11 | 8.66E-10 | 1.29E-08 | 1.29E-08 | 6.38E-09 | 3.31E-08 |
| 2313 | 257469.8 | 4085515 | 7.29E-10 | 1.05E-08 | 1.86E-07 | 1.86E-07 | 1.04E-07 | 4.87E-07 | 1.11E-10 | 1.61E-09 | 2.91E-08 | 2.91E-08 | 1.60E-08 | 7.58E-08 | 6.01E-11 | 8.69E-10 | 1.29E-08 | 1.29E-08 | 6.40E-09 | 3.32E-08 |
| 2316 | 257447.6 | 4085507 | 7.28E-10 | 1.05E-08 | 1.86E-07 | 1.86E-07 | 1.04E-07 | 4.87E-07 | 1.10E-10 | 1.60E-09 | 2.90E-08 | 2.90E-08 | 1.60E-08 | 7.57E-08 | 6.00E-11 | 8.68E-10 | 1.29E-08 | 1.29E-08 | 6.39E-09 | 3.32E-08 |
| 2317 | 237423.3 | 4085498 | 7.24E-10 | 1.05E-08 | 1.85E-07 | 1.85E-07 | 1.03E-07 | 4.84E-07 | 1.10E-10 | 1.60E-09 | 2.89E-08 | 2.89E-08 | 1.59E-08 | 7.53E-08 | 5.97E-11 | 8.63E-10 | 1.26E-08 | 1.28E-08 | 6.36E-09 | 3.30E-08 |
| 2318 | 237403.1 | 4085490 | 7.16E-10 | 1.04E-08 | 1.83E-07 | 1.63E-07 | 1.02E-07 | 4.79E-07 | 1.09E-10 | 1.58E-09 | 2.86E-08 | 2.86E-08 | 1.57E-08 | 7.45E-08 | 5.90E-11 | 8.54E-10 | 1.27E-08 | 1.27E-08 | 6.29E-09 | 3.26E-08 |
| 2319 | 237380.9 | 4085482 | 7.04E-10 | 1.02E-08 | 1.80E-07 | 1.80E-07 | 1.00E-07 | 4.71E-07 | 1.07E-10 | 1.55E-09 | 2.81E-08 | 2.81E-08 | 1.54E-08 | 7.32E-08 | 5.80E-11 | 8.39E-10 | 1.25E-08 | 1.25E-08 | 6.18E-09 | 3.21E-08 |
| 2320 | 237358.7 | 4085474 | 6.87E-10 | 9.93E-09 | 1.75E-07 | 1.75E-07 | 9.78E-08 | 4.59E-07 | 1.04E-10 | 1.51E-09 | 2.74E-08 | 2.74E-08 | 1.51E-08 | 7.14E-08 | 5.66E-11 | 8.19E-10 | 1.22E-08 | 1.22E-08 | 6.03E-09 | 3.13E-08 |
| 2321 | 237336.5 | 4085466 | 6.66E-10 | 9.63E-09 | 1.70E-07 | 1.70E-07 | 9.48E-08 | 4.45E-07 | 1.01E-10 | 1.47E-09 | 2.66E-08 | 2.66E-08 | 1.46E-08 | 6.93E-08 | 5.49E-11 | 7.94E-10 | 1.18E-08 | 1.18E-08 | 5.85E-09 | 3.03E-08 |
| 2322 | 257314.3 | 4085458 | 6.43E-10 | 9.30E-09 | 1.64E-07 | 1.64E-07 | 9.15E-08 | 4.30E-07 | 9.75E-11 | 1.42E-09 | 2.56E-08 | 2.56E-08 | 1.41E-08 | 6.69E-08 | 5.30E-11 | 7.66E-10 | 1.14E-08 | 1.14E-08 | 5.64E-09 | 2.93E-08 |
| 2323 | 257262.2 | 4085428 | 8.21E-10 | 6.98E-09 | 1.59E-07 | 1.59E-07 | 8.64E-08 | 4.15E-07 | 9.42E-11 | 1.37E-09 | 2.48E-08 | 2.48E-08 | 1.36E-08 | 6.46E-08 | 5.12E-11 | 7.40E-10 | 1.10E-08 | 1.10E-08 | 5.45E-09 | 2.83E-08 |
| 2324 | 257277.3 | 4085407 | 6.19E-10 | 8.95E-09 | 1.58E-07 | 1.58E-07 | 8.81E-08 | 4.14E-07 | 9.39E-11 | 1.36E-09 | 2.47E-08 | 2.47E-08 | 1.36E-08 | 6.44E-08 | 5.10E-11 | 7.38E-10 | 1.10E-08 | 1.10E-08 | 5.44E-09 | 2.82E-08 |
| 2325 | 257262.4 | 4085385 | 6.11E-10 | 6.84E-09 | 1.56E-07 | 1.56E-07 | 8.70E-08 | 4.09E-07 | 9.28E-11 | 1.35E-09 | 2.44E-08 | 2.44E-08 | 1.34E-08 | 6.36E-08 | 5.04E-11 | 7.29E-10 | 1.08E-08 | 1.08E-08 | 5.37E-09 | 2.78E-08 |
| 2326 | 257252.5 | 4085364 | 5.96E-10 | 6.62E-09 | 1.52E-07 | 1.52E-07 | 8

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2121 | 258150.4 | 4085230 | 2.98E-09 | 4.30E-08 | 7.60E-07 | 7.60E-07 | 4.24E-07 | 1.99E-08 | 4.52E-10 | 8.58E-09 | 1.19E-07 | 1.19E-07 | 6.32E-08 | 3.10E-07 | 2.45E-10 | 3.35E-09 | 5.28E-08 | 5.28E-08 | 2.61E-08 | 1.36E-07 |
| 2122 | 258174.8 | 4085229 | 2.85E-09 | 4.12E-08 | 7.27E-07 | 7.27E-07 | 4.05E-07 | 1.90E-08 | 4.32E-10 | 8.27E-09 | 1.13E-07 | 1.13E-07 | 6.24E-08 | 2.96E-07 | 2.35E-10 | 3.39E-09 | 5.05E-08 | 5.05E-08 | 2.50E-08 | 1.30E-07 |
| 2123 | 258198.9 | 4085228 | 2.69E-09 | 3.90E-08 | 6.88E-07 | 6.88E-07 | 3.84E-07 | 1.80E-08 | 4.09E-10 | 5.94E-09 | 1.07E-07 | 1.07E-07 | 5.91E-08 | 2.80E-07 | 2.22E-10 | 3.21E-09 | 4.78E-08 | 4.78E-08 | 2.37E-08 | 1.23E-07 |
| 2124 | 258223.2 | 4085226 | 2.32E-09 | 5.65E-08 | 6.44E-07 | 6.44E-07 | 3.59E-07 | 1.69E-08 | 3.83E-10 | 5.35E-09 | 1.01E-07 | 1.01E-07 | 5.33E-08 | 2.62E-07 | 2.08E-10 | 3.00E-09 | 4.47E-08 | 4.47E-08 | 2.21E-08 | 1.15E-07 |
| 2125 | 258247.3 | 4085225 | 2.32E-09 | 5.56E-08 | 5.93E-07 | 5.93E-07 | 3.31E-07 | 1.35E-06 | 3.35E-10 | 5.12E-09 | 9.26E-08 | 9.26E-08 | 5.09E-08 | 2.42E-07 | 1.91E-10 | 2.77E-09 | 4.12E-08 | 4.12E-08 | 2.04E-08 | 1.06E-07 |
| 2128 | 258271.8 | 4085224 | 2.10E-09 | 3.04E-08 | 5.38E-07 | 5.38E-07 | 3.00E-07 | 1.41E-08 | 3.19E-10 | 4.64E-09 | 8.39E-08 | 8.39E-08 | 4.61E-08 | 2.19E-07 | 1.73E-10 | 2.31E-09 | 3.73E-08 | 3.73E-08 | 1.85E-08 | 9.58E-08 |
| 2127 | 258296 | 4085223 | 1.87E-09 | 2.71E-08 | 4.78E-07 | 4.78E-07 | 2.66E-07 | 1.25E-08 | 2.84E-10 | 4.12E-09 | 7.46E-08 | 7.46E-08 | 4.10E-08 | 1.95E-07 | 1.54E-10 | 2.23E-09 | 3.32E-08 | 3.32E-08 | 1.64E-08 | 8.32E-08 |
| 2128 | 256320.3 | 4085222 | 1.65E-09 | 2.56E-08 | 4.17E-07 | 4.17E-07 | 2.33E-07 | 1.09E-06 | 2.48E-10 | 5.60E-09 | 8.32E-08 | 6.52E-08 | 3.58E-08 | 1.70E-07 | 1.35E-10 | 1.95E-09 | 2.90E-08 | 2.90E-08 | 1.44E-08 | 7.44E-08 |
| 2129 | 258344.8 | 4085221 | 1.41E-09 | 2.03E-08 | 3.59E-07 | 3.59E-07 | 2.00E-07 | 9.40E-07 | 2.13E-10 | 3.10E-09 | 5.61E-08 | 5.61E-08 | 3.08E-08 | 1.46E-07 | 1.16E-10 | 1.68E-09 | 2.49E-08 | 2.49E-08 | 1.23E-08 | 6.40E-08 |
| 2130 | 257548.1 | 4085298 | 1.96E-09 | 2.84E-08 | 5.02E-07 | 5.02E-07 | 2.80E-07 | 1.31E-08 | 2.98E-10 | 4.33E-09 | 7.83E-08 | 7.85E-08 | 4.31E-08 | 2.04E-07 | 1.62E-10 | 2.34E-09 | 3.48E-08 | 3.48E-08 | 1.72E-08 | 8.94E-08 |
| 2131 | 257528.5 | 4085290 | 1.93E-09 | 2.79E-08 | 4.93E-07 | 4.95E-07 | 2.75E-07 | 1.29E-08 | 2.95E-10 | 4.35E-09 | 7.69E-08 | 7.69E-08 | 4.23E-08 | 2.01E-07 | 1.59E-10 | 2.30E-09 | 3.42E-08 | 3.42E-08 | 1.69E-08 | 8.76E-08 |
| 2132 | 257504.8 | 4085282 | 1.86E-09 | 2.70E-08 | 4.76E-07 | 4.76E-07 | 2.66E-07 | 1.25E-08 | 2.83E-10 | 4.11E-09 | 7.44E-08 | 7.44E-08 | 4.09E-08 | 1.94E-07 | 1.54E-10 | 2.22E-09 | 3.31E-08 | 3.31E-08 | 1.64E-08 | 8.49E-08 |
| 2133 | 257483.2 | 4085274 | 1.77E-09 | 2.56E-08 | 4.52E-07 | 4.32E-07 | 2.52E-07 | 1.18E-08 | 2.68E-10 | 3.90E-09 | 7.05E-08 | 7.05E-08 | 3.88E-08 | 1.84E-07 | 1.46E-10 | 2.11E-09 | 3.14E-08 | 3.14E-08 | 1.55E-08 | 8.05E-08 |
| 2134 | 257451.9 | 4085245 | 1.66E-09 | 2.41E-08 | 4.25E-07 | 4.25E-07 | 2.37E-07 | 1.11E-08 | 2.52E-10 | 3.66E-09 | 6.63E-08 | 6.63E-08 | 5.65E-08 | 1.75E-07 | 1.37E-10 | 1.98E-09 | 2.95E-08 | 2.99E-08 | 1.46E-08 | 7.57E-08 |
| 2135 | 257442.2 | 4085224 | 1.63E-09 | 2.56E-08 | 4.17E-07 | 4.17E-07 | 2.32E-07 | 1.09E-06 | 2.48E-10 | 5.60E-09 | 6.51E-08 | 6.31E-08 | 3.58E-08 | 1.70E-07 | 1.35E-10 | 1.95E-09 | 2.90E-08 | 2.90E-08 | 1.43E-08 | 7.43E-08 |
| 2136 | 257432.6 | 4085203 | 1.34E-09 | 2.23E-08 | 3.95E-07 | 5.95E-07 | 2.20E-07 | 1.05E-08 | 2.34E-10 | 5.40E-09 | 6.16E-08 | 6.16E-08 | 3.39E-08 | 1.61E-07 | 1.27E-10 | 1.84E-09 | 2.74E-08 | 2.74E-08 | 1.36E-08 | 7.03E-08 |
| 2137 | 257422.9 | 4085182 | 1.42E-09 | 2.05E-08 | 3.62E-07 | 5.62E-07 | 2.02E-07 | 9.46E-07 | 2.15E-10 | 5.12E-09 | 5.64E-08 | 5.64E-08 | 3.10E-08 | 1.47E-07 | 1.17E-10 | 1.69E-09 | 2.31E-08 | 2.31E-08 | 1.24E-08 | 8.45E-08 |
| 2138 | 257569.8 | 4085305 | 1.97E-09 | 2.85E-08 | 5.04E-07 | 5.04E-07 | 2.81E-07 | 1.32E-08 | 2.99E-10 | 4.35E-09 | 7.87E-08 | 7.87E-08 | 4.32E-08 | 2.05E-07 | 1.63E-10 | 2.35E-09 | 3.50E-08 | 3.50E-08 | 1.73E-08 | 8.96E-08 |
| 2159 | 257594.1 | 4085304 | 2.07E-09 | 3.00E-08 | 5.30E-07 | 5.30E-07 | 2.95E-07 | 1.39E-08 | 5.15E-10 | 4.37E-09 | 8.27E-08 | 8.27E-08 | 4.55E-08 | 2.16E-07 | 1.71E-10 | 2.47E-09 | 3.68E-08 | 3.68E-08 | 1.82E-08 | 9.44E-08 |
| 2140 | 257818.4 | 4085303 | 2.18E-09 | 3.12E-08 | 5.31E-07 | 5.31E-07 | 3.07E-07 | 1.44E-06 | 5.27E-10 | 4.75E-09 | 8.60E-08 | 8.60E-08 | 4.73E-08 | 2.24E-07 | 1.78E-10 | 2.37E-09 | 3.83E-08 | 3.83E-08 | 1.89E-08 | 9.82E-08 |
| 2141 | 257642.8 | 4085302 | 2.21E-09 | 3.22E-08 | 5.69E-07 | 5.69E-07 | 3.17E-07 | 1.49E-06 | 5.38E-10 | 4.91E-09 | 8.83E-08 | 8.88E-08 | 4.88E-08 | 2.32E-07 | 1.84E-10 | 2.65E-09 | 3.95E-08 | 3.95E-08 | 1.96E-08 | 1.01E-07 |
| 2142 | 257666.9 | 4085301 | 2.28E-09 | 3.30E-08 | 5.63E-07 | 5.83E-07 | 3.25E-07 | 1.33E-06 | 3.47E-10 | 5.03E-09 | 9.11E-08 | 9.11E-08 | 5.01E-08 | 2.38E-07 | 1.88E-10 | 2.72E-09 | 4.05E-08 | 4.05E-08 | 2.01E-08 | 1.04E-07 |
| 2143 | 257691.2 | 4085300 | 2.31E-09 | 3.37E-08 | 5.95E-07 | 5.95E-07 | 3.32E-07 | 1.56E-06 | 3.34E-10 | 5.14E-09 | 9.30E-08 | 9.30E-08 | 5.11E-08 | 2.43E-07 | 1.92E-10 | 2.78E-09 | 4.14E-08 | 4.14E-08 | 2.05E-08 | 1.06E-07 |
| 2144 | 257715.3 | 4085299 | 2.37E-09 | 3.43E-08 | 6.05E-07 | 6.05E-07 | 3.37E-07 | 1.58E-06 | 3.39E-10 | 5.22E-09 | 9.45E-08 | 9.45E-08 | 5.19E-08 | 2.46E-07 | 1.95E-10 | 2.82E-09 | 4.20E-08 | 4.20E-08 | 2.08E-08 | 1.08E-07 |
| 2145 | 257739.8 | 4085298 | 2.40E-09 | 3.47E-08 | 6.12E-07 | 6.12E-07 | 3.41E-07 | 1.60E-06 | 3.64E-10 | 5.28E-09 | 9.56E-08 | 9.56E-08 | 5.25E-08 | 2.49E-07 | 1.98E-10 | 2.86E-09 | 4.25E-08 | 4.25E-08 | 2.10E-08 | 1.09E-07 |
| 2146 | 257764.1 | 4085297 | 2.42E-09 | 3.50E-08 | 6.17E-07 | 6.17E-07 | 3.44E-07 | 1.62E-06 | 3.87E-10 | 5.33E-09 | 9.64E-08 | 9.64E-08 | 5.30E-08 | 2.31E-07 | 1.99E-10 | 2.88E-09 | 4.29E-08 | 4.29E-08 | 2.12E-08 | 1.10E-07 |
| 2147 | 257788.3 | 4085296 | 2.43E-09 | 3.51E-08 | 8.20E-07 | 6.20E-07 | 3.46E-07 | 1.62E-06 | 3.68E-10 | 5.35E-09 | 9.68E-08 | 9.68E-08 | 5.32E-08 | 2.32E-07 | 2.00E-10 | 2.89E-09 | 4.31E-08 | 4.31E-08 | 2.13E-08 | 1.11E-07 |
| 2148 | 257812.8 | 4085295 | 2.42E-09 | 3.51E-08 | 6.19E-07 | 8.19E-07 | 3.45E-07 | 1.62E-06 | 5.68E-10 | 5.34E-09 | 9.66E-08 | 9.66E-08 | 5.31E-08 | 2.32E-07 | 2.00E-10 | 2.89E-09 | 4.30E-08 | 4.30E-08 | 2.13E-08 | 1.10E-07 |
| 2149 | 257836.9 | 4085294 | 2.42E-09 | 3.51E-08 | 6.19E-07 | 6.19E-07 | 3.45E-07 | 1.62E-06 | 3.68E-10 | 5.34E-09 | 9.67E-08 | 9.67E-08 | 5.31E-08 | 2.52E-07 | 2.00E-10 | 2.89E-09 | 4.30E-08 | 4.30E-08 | 2.13E-08 | 1.10E-07 |
| 2150 | 257861.2 | 4085293 | 2.41E-09 | 3.49E-08 | 8.17E-07 | 6.17E-07 | 3.44E-07 | 1.81E-06 | 5.66E-10 | 5.32E-09 | 9.83E-08 | 9.63E-08 | 5.29E-08 | 2.51E-07 | 1.99E-10 | 2.88E-09 | 4.28E-08 | 4.28E-08 | 2.12E-08 | 1.10E-07 |
| 2151 | 257885.5 | 4085291 | 2.40E-09 | 3.48E-08 | 6.14E-07 | 6.14E-07 | 3.42E-07 | 1.61E-06 | 3.65E-10 | 5.30E-09 | 9.39E-08 | 9.59E-08 | 5.27E-08 | 2.50E-07 | 1.98E-10 | 2.87E-09 | 4.27E-08 | 4.27E-08 | 2.11E-08 | 1.10E-07 |
| 2152 | 257909.7 | 4085290 | 2.39E-09 | 3.46E-08 | 6.10E-07 | 6.10E-07 | 3.40E-07 | 1.60E-08 | 3.63E-10 | 5.27E-09 | 9.53E-08 | 9.53E-08 | 5.24E-08 | 2.49E-07 | 1.97E-10 | 2.85E-09 | 4.24E-08 | 4.24E-08 | 2.10E-08 | 1.09E-07 |
| 2153 | 257934 | 4085289 | 2.37E-09 | 3.43E-08 | 8.05E-07 | 6.05E-07 | 3.37E-07 | 1.58E-08 | 3.60E-10 | 5.22E-09 | 9.45E-08 | 9.45E-08 | 5.20E-08 | 2.47E-07 | 1.95E-10 | 2.83E-09 | 4.20E-08 | 4.20E-08 | 2.08E-08 | 1.08E-07 |
| 2154 | 257958.3 | 4085288 | 2.34E-09 | 3.39E-08 | 5.99E-07 | 5.99E-07 | 3.34E-07 | 1.57E-08 | 3.56E-10 | 5.16E-09 | 9.35E-08 | 9.35E-08 | 5.14E-08 | 2.44E-07 | 1.93E-10 | 2.79E-09 | 4.16E-08 | 4.16E-08 | 2.06E-08 | 1.07E-07 |
| 2155 | 257982.6 | 4085287 | 2.31E-09 | 3.34E-08 | 5.90E-07 | 5.90E-07 | 3.29E-07 | 1.35E-06 | 3.31E-10 | 5.09E-09 | 9.22E-08 | 9.22E-08 | 5.07E-08 | 2.41E-07 | 1.91E-10 | 2.76E-09 | 4.10E-08 | 4.10E-08 | 2.03E-08 | 1.05E-07 |
| 2156 | 258006.9 | 4085286 | 2.27E-09 | 3.29E-08 | 5.81E-07 | 5.81E-07 | 3.24E-07 | 1.32E-06 | 3.45E-10 | 5.01E-09 | 9.07E-08 | 9.07E-08 | 4.98E-08 | 2.37E-07 | 1.87E-10 | 2.71E-09 | 4.03E-08 | 4.03E-08 | 2.00E-08 | 1.04E-07 |
| 2157 | 258031.2 | 4085285 | 2.23E-09 | 3.22E-08 | 5.69E-07 | 5.69E-07 | 3.17E-07 | 1.49E-06 | 3.38E-10 | 4.91E-09 | 8.89E-08 | 8.89E-08 | 4.89E-08 | 2.32E-07 | 1.84E-10 | 2.66E-09 | 3.95E-08 | 3.95E-08 | 1.96E-08 | 1.02E-07 |
| 2158 | 258055.4 | 4085284 | 2.18E-09 | 3.15E-08 | 5.56E-07 | 5.56E-07 | 3.10E-07 | 1.46E-06 | 3.30E-10 | 4.80E-09 | 8.68E-08 | 8.68E-08 | 4.77E-08 | 2.26E-07 | 1.79E-10 | 2.60E-09 | 3.86E-08 | 3.86E-08 | 1.91E-08 | 9.91E-08 |
| 2159 | 258079.7 | 4085283 | 2.12E-09 | 3.06E-08 | 5.41E-07 | 5.41E-07 | 3.02E-07 | 1.42E-06 | 3.21E-10 | 4.67E-09 | 8.44E-08 | 8.44E-08 | 4.64E-08 | 2.20E-07 | 1.75E-10 | 2.52E-09 | 3.76E-08 | 3.76E-08 | 1.86E-08 | 9.64E-08 |
| 2160 | 258104 | 4085282 | 2.05E-09 | 2.96E-08 | 5.24E-07 | 5.24E-07 | 2.92E-07 | 1.37E-08 | 3.11E-10 | 4.32E-09 | 8.17E-08 | 8.17E-08 | 4.49E-08 | 2.13E-07 | 1.69E-10 | 2.44E-09 | 3.64E-08 | 3.64E-08 | 1.80E-08 | 9.34E-08 |
| 2161 | 258128.3 | 4085281 | 1.97E-09 | 2.85E-08 | 5.04E-07 | 5.04E-07 | 2.81E-07 | 1.32E-08 | 2.99E-10 | 4.35E-09 | 7.87E-08 | 7.87E-08 | 4.33E-08 | 2.05E-07 | 1.63E-10 | 2.35E-09 | 3.50E-08 | 3.50E-08 | 1.73E-08 | 8.99E-08 |
| 2162 | 258152.6 | 4085280 | 1.89E-09 | 2.73E-08 | 4.82E-07 | 4.82E-07 | 2.69E-07 | 1.26E-08 | 2.86E-10 | 4.16E-09 | 7.53E-08 | 7.53E-08 | 4.14E-08 | 1.96E-07 | 1.56E-10 | 2.25E-09 | 3.35E-08 | 3.35E-08 | 1.66E-08 | 8.60E-08 |
| 2163 | 258176.8 | 4085279 | 1.79E-09 | 2.59E-08 | 4.57E-07 | 4.57E-07 | 2.55E-07 | 1.20E-08 | 2.72E-10 | 5.95E-09 | 7.14E-08 | 7.14E-08 | 3.93E-08 | 1.86E-07 | 1.48E-10 | 2.14E-09 | 3.18E-08 | 5.18E-08 | 1.57E-08 | 8.16E-08 |
| 2164 | 258201.1 | 4085277 | 1.68E-09 | 2.44E-08 | 4.30E-07 | 4.30E-07 | 2.40E-07 | 1.15E-08 | 2.56E-10 | 5.71E-09 | 6.77E-08 | 6.77E-08 | 3.69E-08 | 1.75E-07 | 1.39E-10 | 2.01E-09 | 2.99E-08 | 2.99E-08 | 1.48E-08 | 7.67E-08 |
| 2165 | 258225.4 | 4085276 | 1.57E-09 | 2.27E-08 | 4.01E-07 | 4.01E-07 | 2.23E-07 | 1.05E-08 | 2.38E-10 | 5.46E-09 | 6.26E-08 | 8.28E-08 | 3.44E-08 | 1.63E-07 | 1.29E-10 | 1.87E-09 | 2.78E-08 | 2.76E-08 | 1.38E-08 | 7.14E-08 |
| 2166 | 258249.7 | 4085275 | 1.45E-09 | 2.09E-08 | 3.69E-07 | 3.69E-07 | 2.06E-07 | 9.66E-07 | 2.19E-10 | 5.16E-09 | 5.76E-08 | 5.76E-08 | 5.17E-08 | 1.50E-07 | 1.19E-10 | 1.77E-09 | 2.56E-08 | 2.56E-08 | 1.27E-08 | 6.38E-08 |
| 2167 | 256274 | 4085274 | 1.32E-09 | 1.91E-08 | 3.36E-07 | 5.36E-07 | 1.88E-07 | 8.81E-07 | 2.00E-10 | 2.90E-09 | 5.25E-08 | 5.25E-08 | 2.89E-08 | 1.37E-07 | 1.09E-10 | 1.57E-09 | 2.34E-08 | 2.34E-08 | 1.16E-08 | 8.00E-08 |
| 2168 | 258298.3 | 4085273 | 1.19E-09 | 1.72E-08 | 3.04E-07 | 3.04E-07 | 1.69E-07 | 7.95E-07 | 1.81E-10 | 2.62E-09 | 4.74E-08 | 4.74E-08 | 2.61E-08 | 1.24E-07 | 9.80E-11 | 1.42E-09 | 2.11E-08 | 2.11E-08 | 1.04E-08 | 5.42E-08 |
| 2169 | 258322.3 | 4085277 | 1.06E-09 | 1.54E-08 | 2.72E-07 | 2.72E-07 | 1.52E-07 | 7.12E-07 | 1.62E-10 | 2.35E-09 | 4.24E-08 | 4.24E-08 | 2.55E-08 | 1.11E-07 | 8.77E-11 | 1.27E-09 | 1.89E-08 | 1.89E-08 | 9.55E-09 | 4.85E-08 |
| 2170 | 258346.8 | 4085271 | 9.44E-10 | 1.37E-08 | 2.41E-07 | 2.41E-07 | 1.34E-07 | 6.32E-07 | 1.43E-10 | 2.08E-09 | 3.77E-08 | 3.77E-08 | 2.07E-08 | 9.83E-08 | 7.78E-11 | 1.13E-09 | 1.68E-08 | 1.68E-08 | 6.29E-09 | 4.30E-08 |
| 2171 | 258371.1 | 4085270 | 8.36E-10 | 1.21E-08 | 2.13E-07 | 2.13E-07 | 1.19E-07 | 5.39E-07 | 1.27E-10 | 1.84E-09 | 3.33E-08 | 3.33E-08 | 1.85E-08 | 6.69E-08 | 6.89E-11 | 9.96E-10 | 1.48E-08 | 1.48E-08 | 7.34E-09 | 3.81E-08 |
| 2172 | 257551.4 | 4085548 | 1.52E-09 | 2.21E-08 | 5.89E-07 | 3.89E-07 | 2.17E-07 | 1.02E-08 | 2.31E-10 | 3.36E-09 | 6.08E-08 | 6.08E-08 | 3.34E-08 | 1.59E-07 | 1.26E-10 | 1.82E-09 | 2.71E-08 | 2.71E-08 | 1.54E-08 | 6.94E-08 |
| 2173 | 257510.1 | 4085533 | 1.49E-09 | 2.16E-08 | 5.81E-07 | 5.81E-07 | 2.13E-07 | 9.99E-07 | 2.27E-10 | 3.29E-09 | 5.96E-08 | 5.96E-08 | 3.27E-08 | 1.55E-07 | 1.23E-10 | 1.78E-09 | 2.65E-08 | 2.65E-08 | 1.51E-08 | 6.80E-08 |
| 2174 | 257468.9 | 4085318 | 1.41E-09 | 2.03E-08 | 5.59E-07 | 3.59E-07 | 2.00E-07 | 9.40E-07 | 2.13E-10 | 3.10E-09 | 5.61E-08 | 5.61E-08 | 3.08E-08 | 1.46E-07 | 1.16E-10 | 1.68E-09 | 2.49E-08 | 2.49E-08 | 1.25E-08 | 6.40E-08 |
| 2175 | 257418.4 | 4085283 | 1.27E-09 | 1.84E-06 | 5.24E-07 | 3.24E-07 | 1.81E-07 | 8.49E-07 | 1.93E-10 | 2.80E-09 | 5.06E-08 | 5.06E-08 | 2.78E-08 | 1.32E-07 | 1.05E-10 | 1.51E-09 | 2.25E-08 | 2.25E-08 | 1.11E-08 | 5.76E-08 |
| 2176 | 257400 | 4085243 | 1.22E-09 | 1.76E-06 | 5.10E-07 | 3.10E-07 | 1.73E-07 | 8.13E-07 | 1.84E-10 | 2.68E-09 | 4.85E-08 | 4.85E-08 | 2.66E-08 | 1.26E-07 | 1.00E-10 | 1.45E-09 | 2.16E-08 | 2.16E-08 | 1.07E-08 | 5.33E-08 |
| 2177 | 257381.7 | 4085203 | 1.06E-09 | 1.53E-08 | 2.70E-07 | 2.70E-07 | 1.31E-07 | 7.07E-07 | 1.60E-10 | 2.33E-09 | 4.22E-08 | 4.22E-08 | 2.32E-08 | 1.10E-07 | 8.77E-11 | 1.26E-09 | 1.88E-08 | 1.88E-08 | 9.29E-09 | 4.82E-08 |
| 2178 | 257596.3 | 4085554 | 1.58E-09 | 2.29E-08 | 4.04E-07 | 4.04E-07 | 2.25E-07 | 1.06E-08 | 2.40E-10 | 3.48E-09 | 6.30E-08 | 6.30E-08 | 3.46E-08 | 1.64E-07 | 1.30E-10 | 1.88E-09 | 2.80E-08 | 2.80E-08 | 1.39E-08 | 7.20E-08 |
| 2179 | 257620.6 | 4085553 | 1.63E-09 | 2.38E-08 | 4.16E-07 | 4.16E-07 | 2.32E-07 | 1.09E-08 | 2.47E-10 | 5.59E-09 | 6.50E-08 | 8.50E-08 | 3.57E-08 | 1.70E-07 | 1.34E-10 | 1.94E-09 | 2.89E-08 | 2.89E-08 | 1.43E-08 | 7.42E-08 |
| 2180 | 257644.9 | 4085552 | 1.67E-09 | 2.42E-08 | 4.27E-07 | 4.27E-07 | 2.38E-07 | 1.12E-06 | 2.35E-10 | 3.68E-09 | 8.66E-08 | 6.66E-08 | 3.66E-08 | 1.74E-07 | 1.38E-10 | 1.99E-09 | 2.96E-08 | 2.96E-08 | 1.47E-08 | 7.61E-08 |
| 2181 | 257669.1 | 4085351 | 1.70E-08 | 2.48E-08 | 4.35E-07 | 4.35E-07 | 2.43E-07 | 1.14E-08 | 2.39E-10 | 3.75E-09 | 8.79E-08 | 6.79E-08 | 3.73E-08 | 1.77E-07 | 1.40E-10 | 2.03E-09 | 3.02E-08 | 3.02E-08 | 1.50E-08 | 7.76E-08 |
| 2182 | 257693.4 | 4085350 | 1.73E-09 | 2.50E-08 | 4.42E-07 | 4.42E-07 | 2.47E-07 | 1.16E-06 | 2.63E-10 | 3.81E-09 | 8.90E-08 | 6.90E-08 | 3.80E-08 | 1.80E-07 | 1.43E-10 | 2.06E-09 | 3.07E-08 | 3.07E-08 | 1.52E-08 | 7.88E-08 |
| 2183 | 257717.7 | 4085349 | 1.75E-09 | 2.54E-08 | 4.48E-07 | 4.48E-07 | 2.50E-07 | 1.17E-06 | 2.66E-10 | 3.86E-09 | 6.99E-08 | 6.99E-08 | 3.84E-08 | 1.82E-07 | 1.44E-10 | 2.09E-09 | 3.11E-08 | 3.11E-08 | 1.54E-08 | 7.96E-08 |
| 2184 | 257742 | 4085348 | 1.76E-09 | 2.55E-08 | 4.51E-07 | 4.51E-07 | 2.51E-07 | 1.18E-06 | 2.68E-10 | 3.89E-09 | 7.04E-08 | 7.04E-08 | 3.87E-08 | 1.84E-07 | 1.45E-10 | 2.10E-09 | 3.13E-08 | 3.13E-08 | 1.55E-08 | 8.04E-08 |
| 2185 | 257766.3 | 4085347 | 1.77E-09 | 2.56E-08 | 4.51E-07 | 4.51E-07 | 2.52E-07 | 1.18E-06 | 2.68E-10 | 3.89E-09 | 7.04E-08 | 7.04E-08 | 3.87E-08 | 1.84E-07 | 1.46E-10 | 2.11E-09 | 3.13E-08 | 3.13E-08 | 1.55E-08 | 8.05E-08 |
| 2186 | 257790.6 | 4085346 | 1.77E-09 | 2.56E-08 | 4.52E-07 | 4.52E-07 | 2.52E-07 | 1.18E-06 | 2.69E-10 | 3.90E-09 | 7.06E-08 | 7.06E-08 | 3.88E-08 | 1.84E-07 | 1.46E-10 | 2.11E-09 | 3.14E-08 | 3.14E-08 | 1.55E-08 | 8.06E-08 |
| 2187 | 257814.8 | 4085345 | 1.77E-09 | 2.56E-08 | 4.52E-07 | 4.52E-07 | 2.52E-07 | 1.18E-06 | 2.68E-10 | 3.90E-09 | 7.06E-08 | 7.06E-08 | 3.88E-08 | 1.84E-07 | 1.46E-10 | 2.11E-09 | 3.14E-08 | 3.14E-08 | 1.55E-08 | 8.06E-08 |
| 2188 | 257839.1 | 4085344 | 1.76E-09 | 2.55E-08 | 4.50E-07 | 4.50E-07 | 2.31E-07 | 1.18E-06 | 2.68E-10 | 3.89E-09 | 7.03E-08 | 7.03E-08 | 3.87E-08 | 1.83E-07 | 1.45E-10 | 2.10E-09 | 3.13E-08 | 3.13E-08 | 1.55E-08 | 8.03E-08 |
| 2189 | 257883.4 | 4085343 | 1.75E-09 | 2.54E-08 | 4.48E-07 | 4.48E-07 | 2.50E-07 | 1.17E-08 | 2.66E-10 | 3.86E-09 | 6.99E-08 | 6.99E-08 | 3.85E-06 | 1.82E-07 | 1.45E-10 | 2.09E-09 | 3.11E-08 | 3.11E-08 | 1.54E-08 | 7.99E-08 |
| 2190 | 257887.7 | 4085341 | 1.74E-09 | 2.52E-08 | 4.44E-07 | 4.44E-07 | 2.48E-07 | 1.16E-08 | 2.64E-10 | 3.83E-09 | 6.94E-08 | 6.94E-08 | 3.81E-08 | 1.81E-07 | 1.43E-10 | 2.07E-09 | 3.09E-08 | 3.09E-08 | 1.53E-08 | 7.92E-08 |
| 2191 | 257912 | 4085340 | 1.72E-09 | 2.49E-08 | 4.40E-07 | 4.40E-07 | 2.45E-07 | 1.15E-06 | 2.61E-10 | 3.79E-09 | 6.87E-08 | 6.87E-08 | 3.77E-08 | 1.79E-07 | 1.42E-10 | 2.05E-09 | 3.05E-08 | 3.05E-08 | 1.51E-08 | 7.84E-08 |
| 2192 | 257936.2 | 4085339 | 1.70E-09 | 2.46E-08 | 4.34E-07 | 4.34E-07 | 2.42E-07 | 1.14E-06 | 2.58E-10 | 3.74E-09 | 6.78E-08 | 6.78E-08 | 3.73E-08 | 1.77E-07 | 1.40E-10 | 2.03E-09 | 3.02E-08 | 3.02E-08 | 1.49E-08 | 7.74E-08 |
| 2193 | 257960.3 | 4085538 | 1.67E-09 | 2.42E-08 | 4.27E-07 | 4.27E-07 | 2.38E-07 | 1.12E-08 | 2.54E-10 | 3.69E-09 | 6.67E-08 | 6.67E-08 | 3.67E-08 | 1.74E-07 | 1.38E-10 | 1.99E-09 | 2.97E-08 | 2.97E-08 | 1.47E-08 | 7.82E-08 |
| 2194 | 257984.8 | 4085337 | 1.64E-09 | 2.38E-08 | 4.20E-07 | 4.20E-07 | 2.34E-07 | 1.10E-06 | 2.49E-10 | 3.62E-09 | 6.55E-08 | 6.55E-08 | 3.60E-08 | 1.71E-07 | 1.35E-10 | 1.96E-09 | 2.91E-08 | 2.91E-08 | 1.44E-08 | 7.48E-08 |
| 2199 | 258009.1 | 4085338 | 1.81E-09 | 2.35E-08 | 4.11E-07 | 4.11E-07 | 2.29E-07 | 1.08E-06 | 2.44E-10 | 3.54E-09 | 6.41E-08 | 6.41E-08 | 5.32E-08 | 1.67E-07 | 1.33E-10 | 1.92E-09 | 2.85E-08 | 2.85E-08 | 1.41E-08 | 7.32E-08 |
| 2196 | 258033.4 | 4085335 | 1.37E-09 | 2.27E-08 | 4.01E-07 | 4.01E-07 | 2.25E-07 | 1.05E-06 | 2.58E-10 | 3.48E-09 | 8.26E-08 | 6.26E-08 | 5.44E-08 | 1.63E-07 | 1.29E-10 | 1.87E-09 | 2.78E-08 | 2.78E-08 | 1.38E-08 | 7.14E-08 |
| 2197 | 258057.7 | 4085534 | 1.53E-09 | 2.21E-08 | 3.89E-07 | 3.89E-07 | 2.17E-07 | 1.02E-06 | 2.51E-10 | 3.36E-09 | 8.08E-08 | 6.08E-08 | 3.34E-08 | 1.39E-07 | 1.26E-10 | 1.82E-09 | 2.71E-08 | 2.71E-08 | 1.34E-08 | 6.95E-08 |
| 2198 | 258081.9 | 4085335 | 1.48E-09 | 2.14E-08 | 3.77E-07 | 3.77E-07 | 2.10E-07 | 9.87E-07 | 2.24E-10 | 3.25E-09 | 5.89E-08 | 5.89E-08 | 5.24E-08 | 1.54E-07 | 1.22E-10 | 1.76E-09 | 2.62E-08 | 2.62E-08 | 1.30E-08 | 8.75E-08 |
| 2199 | 258106.2 | 4085532 | 1.42E-09 | 2.06E-08 | 3.64E-07 | 3.64E-07 | 2.03E-07 | 9.32E-07 | 2.16E-10 | 3.14E-09 | 5.68E-08 | 5.68E-08 | 5.12E-08 | 1.48E-07 | 1.17E-10 | 1.70E-09 | 2.53E-08 | 2.35E-08 | 1.25E-08 | 8.48E-08 |
| 2200 | 258130.5 | 4085331 | 1.36E-09 | 1.97E-08 | 3.49E-07 | 3.49E-07 | 1.94E-07 | 9.12E-07 | 2.07E-10 | 5.01E-09 | 5.44E-08 | 5.44E-08 | 2.99E-08 | 1.42E-07 | 1.12E-10 | 1.63E-09 | 2.42E-08 | 2.42E-08 | 1.20E-08 | 6.21E-08 |
| 2701 | 258154.8 | 4085330 | 1.30E-09 | 1.88E-08 | 3.32E-07 | 3.32E-07 | 1.85E-07 | 8.69E-07 | 1.97E-10 | 2.86E-09 | 5.18E-08 | 5.18E-08 | 2.85E-08 | 1.35E-07 | 1.07E-10 | 1.55E-09 | 2.31E-08 | 2.31E-08 | 1.14E-08 | 5.92E-08 |
| 2202 | 258179.1 | 4085329 | 1.23E-09 | 1.78E-08 | 3.14E-07 | 3.14E-07 | 1.75E-07 | 8.22E-07 | 1.87E-10 | 2.71E-09 | 4.90E-08 | 4.90E-08 | 2.70E-08 | 1.28E-07 | 1.01E-10 | 1.47E-09 | 2.18E-08 | 2.18E-08 | 1.08E-08 | 5.60E-08 |
| 2203 | 258203.3 | 4085327 | 1.15E-09 | 1.67E-08 | 2.95E-07 | 2.95E-07 | 1.64E-07 | 7.72E-07 | 1.75E-10 | 2.54E-09 | 4.60E-08 | 4.60E-08 | 2.53E-08 | 1.20E-07 | 9.52E-11 | 1.38E-09 | 2.05E-08 | 2.05E-08 | 1.01E-08 | 5.25E-08 |
| 2204 | 258227.8 | 4085326 | 1.08E-09 | 1.56E-08 | 2.75E-07 | 2.75E-07 | 1.53E-07 | 7.20E-07 | 1.63E-10 | 2.37E-09 | 4.29E-08 | 4.29E-08 | 2.36E-08 | 1.12E-07 | 8.87E-11 | 1.28E-09 | 1.91E-08 | 1.91E-08 | 9.45E-09 | 4.90E-08 |
| 2205 | 258251.9 | 4085325 | 9.97E-10 | 1.44E-08 | 2.56E-07 | 2.35E-07 | 1.42E-07 | 6.67E-07 | 1.51E-10 | 2.20E-09 | 3.98E-08 | 5.98E-08 | 2.19E-08 | 1.04E-07 | 8.22E-11 | 1.19E-09 | 1.77E-08 | 1.77E-08 | 8.75E-09 | 4.54E-08 |
| 2206 | 258276.2 | 4085324 | 9.18E-10 | 1.35E-08 | 2.34E-07 | 2.34E-07 | 1.31E-07 | 6.14E-07 | 1.39E-10 | 2.02E-09 | 3.66E-08 | 3.66E-08 | 2.01E-08 | 9.55E-08 | 7.37E-11 | 1.09E-09 | 1.63E-08 | 1.63E-08 | 8.06E-09 | 4.18E-08 |
| 2707 | 258300.3 | 4085323 | 6.40E-10 | 1.22E-08 | 2.15E-07 | 2.15E-07 | 1.20E-07 | 5.62E-07 | 1.26E-10 | 1.85E-09 | 3.33E-08 | 3.33E-08 | 1.84E-08 | 8.74E-08 | 8.93E-11 | 1.00E-09 | 1.49E-08 | 1.49E-08 | 7.38E-09 | 5.83E-06 |
| 2208 | 258324.8 | 4085322 | 7.64E-10 | 1.11E-08 | 1.95E-07 | 1.95E-07

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003 | 257831.4 | 4085169 | 8.65E-09 | 1.26E-07 | 2.26E-06 | 2.26E-06 | 1.26E-06 | 5.92E-06 | 1.34E-09 | 1.95E-08 | 3.53E-07 | 3.53E-07 | 1.94E-07 | 9.21E-07 | 7.29E-10 | 1.05E-08 | 1.57E-07 | 1.57E-07 | 7.77E-08 | 4.03E-07 |
| 2004 | 257855.7 | 4085168 | 8.66E-09 | 1.26E-07 | 2.26E-06 | 2.26E-06 | 1.26E-08 | 5.93E-06 | 1.35E-09 | 1.95E-08 | 3.54E-07 | 3.54E-07 | 1.94E-07 | 9.22E-07 | 7.31E-10 | 1.06E-08 | 1.57E-07 | 1.57E-07 | 7.79E-08 | 4.04E-07 |
| 2005 | 257879.9 | 4085167 | 6.67E-09 | 1.28E-07 | 2.27E-08 | 2.27E-06 | 1.26E-08 | 5.93E-06 | 1.35E-09 | 1.96E-08 | 3.54E-07 | 3.54E-07 | 1.95E-07 | 9.23E-07 | 7.31E-10 | 1.06E-06 | 1.57E-07 | 1.57E-07 | 7.79E-08 | 4.04E-07 |
| 2006 | 257904.2 | 4085166 | 8.87E-09 | 1.26E-07 | 2.27E-06 | 2.27E-06 | 1.26E-06 | 5.93E-06 | 1.35E-09 | 1.95E-06 | 3.54E-07 | 3.54E-07 | 1.94E-07 | 9.23E-07 | 7.31E-10 | 1.06E-08 | 1.57E-07 | 1.57E-07 | 7.79E-08 | 4.04E-07 |
| 2007 | 257928.5 | 4085164 | 6.66E-09 | 1.26E-07 | 2.26E-06 | 2.26E-06 | 1.26E-06 | 5.93E-06 | 1.35E-09 | 1.95E-06 | 3.53E-07 | 3.53E-07 | 1.94E-07 | 9.22E-07 | 7.31E-10 | 1.06E-08 | 1.57E-07 | 1.57E-07 | 7.78E-08 | 4.04E-07 |
| 2008 | 257952.8 | 4085163 | 6.85E-09 | 1.28E-07 | 2.26E-06 | 2.26E-06 | 1.26E-06 | 5.92E-06 | 1.34E-09 | 1.95E-08 | 3.53E-07 | 3.53E-07 | 1.94E-07 | 9.20E-07 | 7.29E-10 | 1.05E-08 | 1.57E-07 | 1.57E-07 | 7.77E-08 | 4.03E-07 |
| 2009 | 257977.1 | 4085162 | 8.82E-09 | 1.28E-07 | 2.25E-08 | 2.25E-06 | 1.26E-08 | 5.90E-06 | 1.34E-09 | 1.94E-08 | 3.52E-07 | 3.52E-07 | 1.93E-07 | 9.18E-07 | 7.27E-10 | 1.05E-08 | 1.56E-07 | 1.56E-07 | 7.75E-08 | 4.02E-07 |
| 2010 | 258001.3 | 4085161 | 6.79E-09 | 1.27E-07 | 2.24E-06 | 2.24E-06 | 1.25E-06 | 5.88E-06 | 1.33E-09 | 1.94E-08 | 3.50E-07 | 3.50E-07 | 1.93E-07 | 9.14E-07 | 7.24E-10 | 1.05E-08 | 1.56E-07 | 1.56E-07 | 7.72E-08 | 4.00E-07 |
| 2011 | 258025.6 | 4085160 | 8.75E-09 | 1.27E-07 | 2.23E-06 | 2.23E-06 | 1.25E-08 | 5.85E-06 | 1.33E-09 | 1.93E-08 | 3.49E-07 | 3.49E-07 | 1.92E-07 | 9.10E-07 | 7.21E-10 | 1.04E-08 | 1.55E-07 | 1.55E-07 | 7.68E-08 | 3.98E-07 |
| 2012 | 258049.9 | 4085159 | 8.69E-09 | 1.26E-07 | 2.22E-06 | 2.22E-06 | 1.24E-08 | 5.81E-06 | 1.32E-09 | 1.92E-06 | 3.47E-07 | 3.47E-07 | 1.91E-07 | 9.05E-07 | 7.17E-10 | 1.04E-08 | 1.54E-07 | 1.54E-07 | 7.64E-08 | 3.96E-07 |
| 2013 | 258074.2 | 4085158 | 8.63E-09 | 1.25E-07 | 2.20E-06 | 2.20E-06 | 1.23E-08 | 5.77E-06 | 1.31E-09 | 1.90E-06 | 3.44E-07 | 3.44E-07 | 1.89E-07 | 8.97E-07 | 7.11E-10 | 1.03E-08 | 1.53E-07 | 1.53E-07 | 7.57E-08 | 3.93E-07 |
| 2014 | 258098.5 | 4085157 | 6.40E-09 | 1.22E-07 | 2.15E-06 | 2.15E-06 | 1.20E-06 | 5.62E-06 | 1.27E-09 | 1.85E-08 | 3.35E-07 | 3.35E-07 | 1.84E-07 | 8.74E-07 | 6.92E-10 | 1.00E-08 | 1.49E-07 | 1.49E-07 | 7.38E-08 | 3.83E-07 |
| 2015 | 258122.8 | 4085156 | 6.29E-09 | 1.20E-07 | 2.12E-06 | 2.12E-06 | 1.16E-06 | 5.54E-06 | 1.26E-09 | 1.83E-08 | 3.31E-07 | 3.31E-07 | 1.82E-07 | 8.62E-07 | 6.83E-10 | 9.88E-09 | 1.47E-07 | 1.47E-07 | 7.26E-08 | 3.78E-07 |
| 2016 | 268147 | 4085155 | 8.16E-09 | 1.16E-07 | 2.08E-06 | 2.08E-06 | 1.18E-08 | 5.46E-06 | 1.24E-09 | 1.80E-08 | 3.25E-07 | 3.25E-07 | 1.79E-07 | 8.49E-07 | 6.73E-10 | 9.73E-09 | 1.45E-07 | 1.45E-07 | 7.17E-08 | 3.72E-07 |
| 2017 | 258171.3 | 4085154 | 6.00E-09 | 1.16E-07 | 2.04E-06 | 2.04E-06 | 1.14E-06 | 5.35E-06 | 1.21E-09 | 1.76E-08 | 3.19E-07 | 3.19E-07 | 1.75E-07 | 8.32E-07 | 6.59E-10 | 9.53E-09 | 1.42E-07 | 1.42E-07 | 7.02E-08 | 3.64E-07 |
| 2016 | 258195.6 | 4085153 | 7.79E-09 | 1.13E-07 | 1.99E-06 | 1.99E-06 | 1.11E-08 | 5.21E-06 | 1.18E-09 | 1.72E-08 | 3.11E-07 | 3.11E-07 | 1.71E-07 | 8.10E-07 | 6.42E-10 | 9.26E-09 | 1.38E-07 | 1.38E-07 | 6.84E-08 | 3.55E-07 |
| 2019 | 258219.9 | 4085152 | 7.52E-09 | 1.09E-07 | 1.92E-06 | 1.92E-06 | 1.07E-08 | 5.03E-06 | 1.14E-09 | 1.66E-08 | 3.00E-07 | 3.00E-07 | 1.65E-07 | 7.82E-07 | 6.20E-10 | 8.96E-09 | 1.33E-07 | 1.33E-07 | 6.60E-08 | 3.42E-07 |
| 2020 | 258244.2 | 4085150 | 7.16E-09 | 1.04E-07 | 1.83E-06 | 1.83E-06 | 1.02E-08 | 4.79E-06 | 1.09E-09 | 1.58E-08 | 2.86E-07 | 2.86E-07 | 1.57E-07 | 7.45E-07 | 5.91E-10 | 8.54E-09 | 1.27E-07 | 1.27E-07 | 6.29E-08 | 3.26E-07 |
| 2021 | 258268.4 | 4085149 | 6.69E-09 | 9.68E-08 | 1.71E-06 | 1.71E-06 | 9.53E-07 | 4.48E-06 | 1.02E-09 | 1.47E-08 | 2.67E-07 | 2.67E-07 | 1.47E-07 | 6.96E-07 | 5.52E-10 | 7.98E-09 | 1.19E-07 | 1.19E-07 | 5.86E-08 | 3.05E-07 |
| 2022 | 258292.7 | 4085148 | 6.05E-09 | 8.75E-08 | 1.55E-08 | 1.55E-06 | 8.62E-07 | 4.05E-06 | 9.18E-10 | 1.33E-08 | 2.41E-07 | 2.41E-07 | 1.33E-07 | 6.30E-07 | 4.99E-10 | 7.21E-09 | 1.07E-07 | 1.07E-07 | 5.31E-08 | 2.76E-07 |
| 2023 | 258217 | 4085147 | 5.17E-09 | 7.47E-08 | 1.32E-08 | 1.32E-06 | 7.36E-07 | 3.45E-06 | 7.84E-10 | 1.14E-08 | 2.06E-07 | 2.06E-07 | 1.13E-07 | 5.37E-07 | 4.26E-10 | 6.16E-09 | 9.17E-08 | 9.17E-08 | 4.54E-08 | 2.35E-07 |
| 2024 | 258341.3 | 4085146 | 4.02E-09 | 5.62E-08 | 1.03E-06 | 1.03E-06 | 5.73E-07 | 2.69E-06 | 6.11E-10 | 6.86E-09 | 1.60E-07 | 1.60E-07 | 6.82E-08 | 4.19E-07 | 3.32E-10 | 4.80E-09 | 7.14E-08 | 7.14E-08 | 3.53E-08 | 1.83E-07 |
| 2025 | 258365.6 | 4085145 | 2.90E-09 | 4.19E-08 | 7.39E-07 | 7.39E-07 | 4.12E-07 | 1.94E-06 | 4.39E-10 | 6.38E-09 | 1.15E-07 | 1.15E-07 | 6.35E-06 | 3.01E-07 | 2.39E-10 | 3.45E-09 | 5.14E-08 | 5.14E-06 | 2.54E-08 | 1.32E-07 |
| 2026 | 257547.3 | 4085199 | 4.09E-09 | 5.91E-08 | 1.04E-06 | 1.04E-06 | 5.82E-07 | 2.73E-06 | 6.20E-10 | 9.01E-09 | 1.63E-07 | 1.63E-07 | 6.96E-08 | 4.25E-07 | 3.37E-10 | 4.87E-09 | 7.25E-08 | 7.25E-08 | 3.59E-08 | 1.86E-07 |
| 2027 | 257589.7 | 4085204 | 4.75E-09 | 6.88E-08 | 1.21E-06 | 1.21E-06 | 6.77E-07 | 3.18E-06 | 7.22E-10 | 1.05E-08 | 1.90E-07 | 1.90E-07 | 1.04E-07 | 4.95E-07 | 3.92E-10 | 5.67E-09 | 8.44E-08 | 8.44E-08 | 4.18E-08 | 2.17E-07 |
| 2026 | 257613.9 | 4085203 | 5.11E-09 | 7.39E-08 | 1.30E-06 | 1.30E-06 | 7.27E-07 | 3.42E-06 | 7.75E-10 | 1.13E-06 | 2.04E-07 | 2.04E-07 | 1.12E-07 | 5.31E-07 | 4.21E-10 | 6.09E-09 | 9.06E-08 | 9.06E-08 | 4.49E-08 | 2.33E-07 |
| 2029 | 257638.2 | 4085202 | 5.36E-09 | 7.75E-08 | 1.37E-06 | 1.37E-06 | 7.63E-07 | 3.58E-06 | 8.13E-10 | 1.18E-06 | 2.14E-07 | 2.14E-07 | 1.17E-07 | 5.57E-07 | 4.42E-10 | 6.39E-09 | 9.51E-08 | 9.51E-06 | 4.71E-08 | 2.44E-07 |
| 2030 | 257662.5 | 4085201 | 5.54E-09 | 8.01E-08 | 1.41E-06 | 1.41E-06 | 7.88E-07 | 3.70E-06 | 8.40E-10 | 1.22E-06 | 2.21E-07 | 2.21E-07 | 1.21E-07 | 5.76E-07 | 4.56E-10 | 8.60E-09 | 9.82E-08 | 9.82E-08 | 4.86E-08 | 2.52E-07 |
| 2031 | 257686.8 | 4085200 | 5.67E-09 | 8.20E-08 | 1.45E-06 | 1.45E-06 | 8.07E-07 | 3.79E-06 | 8.61E-10 | 1.25E-06 | 2.26E-07 | 2.26E-07 | 1.24E-07 | 5.90E-07 | 4.67E-10 | 6.76E-09 | 1.01E-07 | 1.01E-07 | 4.98E-08 | 2.58E-07 |
| 2032 | 257711.1 | 4085199 | 5.77E-09 | 8.35E-08 | 1.47E-06 | 1.47E-08 | 8.22E-07 | 3.86E-08 | 8.78E-10 | 1.27E-08 | 2.30E-07 | 2.30E-07 | 1.27E-07 | 6.00E-07 | 4.76E-10 | 6.88E-09 | 1.02E-07 | 1.02E-07 | 5.07E-08 | 2.63E-07 |
| 2033 | 257735.4 | 4085198 | 5.85E-09 | 6.46E-08 | 1.49E-06 | 1.49E-06 | 8.33E-07 | 3.91E-06 | 8.88E-10 | 1.29E-08 | 2.33E-07 | 2.33E-07 | 1.28E-07 | 6.09E-07 | 4.82E-10 | 8.97E-09 | 1.04E-07 | 1.04E-07 | 5.14E-08 | 2.66E-07 |
| 2034 | 257759.6 | 4085197 | 5.91E-09 | 6.55E-08 | 1.51E-06 | 1.51E-08 | 6.41E-07 | 3.95E-06 | 8.97E-10 | 1.30E-08 | 2.56E-07 | 2.36E-07 | 1.30E-07 | 8.15E-07 | 4.87E-10 | 7.04E-09 | 1.05E-07 | 1.05E-07 | 5.19E-06 | 2.69E-07 |
| 2035 | 257783.9 | 4085196 | 5.96E-09 | 6.61E-08 | 1.52E-06 | 1.52E-06 | 8.48E-07 | 3.98E-06 | 9.04E-10 | 1.31E-08 | 2.38E-07 | 2.38E-07 | 1.31E-07 | 6.20E-07 | 4.91E-10 | 7.10E-09 | 1.06E-07 | 1.06E-07 | 5.23E-08 | 2.71E-07 |
| 2036 | 257808.2 | 4085195 | 5.99E-09 | 6.66E-08 | 1.53E-06 | 1.53E-06 | 8.53E-07 | 4.01E-06 | 9.09E-10 | 1.32E-08 | 2.39E-07 | 2.39E-07 | 1.31E-07 | 6.23E-07 | 4.94E-10 | 7.14E-09 | 1.06E-07 | 1.06E-07 | 5.26E-08 | 2.73E-07 |
| 2037 | 257832.5 | 4085194 | 6.01E-09 | 8.70E-08 | 1.54E-06 | 1.54E-06 | 8.56E-07 | 4.02E-06 | 9.13E-10 | 1.33E-08 | 2.40E-07 | 2.40E-07 | 1.32E-07 | 6.26E-07 | 4.96E-10 | 7.17E-09 | 1.07E-07 | 1.07E-07 | 5.26E-08 | 2.74E-07 |
| 2038 | 257856.8 | 4085193 | 6.03E-09 | 6.72E-08 | 1.54E-06 | 1.54E-06 | 8.59E-07 | 4.03E-06 | 9.15E-10 | 1.33E-08 | 2.40E-07 | 2.40E-07 | 1.32E-07 | 6.27E-07 | 4.97E-10 | 7.19E-09 | 1.07E-07 | 1.07E-07 | 5.30E-08 | 2.75E-07 |
| 2039 | 257881 | 4085192 | 6.04E-09 | 8.73E-08 | 1.54E-06 | 1.54E-06 | 8.60E-07 | 4.04E-06 | 9.16E-10 | 1.33E-08 | 2.41E-07 | 2.41E-07 | 1.32E-07 | 6.28E-07 | 4.98E-10 | 7.20E-09 | 1.07E-07 | 1.07E-07 | 5.30E-08 | 2.75E-07 |
| 2040 | 257905.3 | 4085190 | 6.04E-09 | 6.73E-06 | 1.54E-06 | 1.54E-06 | 6.60E-07 | 4.04E-06 | 9.16E-10 | 1.33E-08 | 2.41E-07 | 2.41E-07 | 1.32E-07 | 6.28E-07 | 4.98E-10 | 7.20E-09 | 1.07E-07 | 1.07E-07 | 5.30E-08 | 2.75E-07 |
| 2041 | 257929.6 | 4085189 | 6.03E-09 | 8.72E-08 | 1.54E-06 | 1.54E-06 | 8.59E-07 | 4.03E-06 | 9.15E-10 | 1.33E-08 | 2.40E-07 | 2.40E-07 | 1.32E-07 | 6.27E-07 | 4.97E-10 | 7.19E-09 | 1.07E-07 | 1.07E-07 | 5.30E-08 | 2.75E-07 |
| 2042 | 257953.9 | 4085188 | 6.01E-09 | 8.70E-08 | 1.54E-06 | 1.54E-06 | 8.56E-07 | 4.02E-06 | 9.13E-10 | 1.33E-08 | 2.40E-07 | 2.40E-07 | 1.32E-07 | 6.26E-07 | 4.96E-10 | 7.17E-09 | 1.07E-07 | 1.07E-07 | 5.28E-06 | 2.74E-07 |
| 2043 | 257978.2 | 4085187 | 5.92E-09 | 8.56E-08 | 1.51E-06 | 1.51E-06 | 8.42E-07 | 3.96E-06 | 8.98E-10 | 1.30E-08 | 2.36E-07 | 2.36E-07 | 1.30E-07 | 6.15E-07 | 4.88E-10 | 7.05E-09 | 1.05E-07 | 1.05E-07 | 5.20E-06 | 2.69E-07 |
| 2044 | 258002.5 | 4085186 | 5.88E-09 | 8.51E-08 | 1.50E-06 | 1.50E-06 | 8.38E-07 | 3.93E-06 | 8.93E-10 | 1.30E-08 | 2.35E-07 | 2.35E-07 | 1.29E-07 | 6.12E-07 | 4.85E-10 | 7.01E-09 | 1.04E-07 | 1.04E-07 | 5.17E-08 | 2.68E-07 |
| 2045 | 258026.7 | 4085185 | 5.84E-09 | 8.45E-08 | 1.49E-06 | 1.49E-06 | 8.31E-07 | 3.90E-06 | 8.86E-10 | 1.29E-08 | 2.33E-07 | 2.33E-07 | 1.28E-07 | 6.08E-07 | 4.81E-10 | 8.96E-09 | 1.04E-07 | 1.04E-07 | 5.13E-08 | 2.66E-07 |
| 2046 | 258051 | 4085184 | 5.79E-09 | 8.37E-08 | 1.48E-06 | 1.48E-06 | 8.24E-07 | 3.87E-06 | 8.78E-10 | 1.27E-08 | 2.31E-07 | 2.31E-07 | 1.27E-07 | 6.02E-07 | 4.77E-10 | 6.90E-09 | 1.03E-07 | 1.03E-07 | 5.08E-08 | 2.63E-07 |
| 2047 | 258075.3 | 4085183 | 5.72E-09 | 8.27E-08 | 1.46E-06 | 1.46E-06 | 8.14E-07 | 3.82E-06 | 8.68E-10 | 1.26E-08 | 2.28E-07 | 2.28E-07 | 1.25E-07 | 5.95E-07 | 4.71E-10 | 6.82E-09 | 1.01E-07 | 1.01E-07 | 5.02E-08 | 2.80E-07 |
| 2048 | 258099.6 | 4085182 | 5.63E-09 | 8.15E-08 | 1.44E-06 | 1.44E-08 | 8.02E-07 | 3.77E-06 | 8.55E-10 | 1.24E-08 | 2.25E-07 | 2.25E-07 | 1.24E-07 | 5.86E-07 | 4.64E-10 | 6.72E-09 | 1.00E-07 | 1.00E-07 | 4.95E-08 | 2.57E-07 |
| 2049 | 258123.9 | 4085181 | 5.53E-09 | 8.00E-08 | 1.41E-06 | 1.41E-06 | 7.88E-07 | 3.70E-06 | 8.39E-10 | 1.22E-08 | 2.21E-07 | 2.21E-07 | 1.21E-07 | 5.75E-07 | 4.56E-10 | 8.59E-09 | 9.81E-08 | 9.81E-08 | 4.66E-08 | 2.52E-07 |
| 2050 | 258148.1 | 4085180 | 5.40E-09 | 7.62E-08 | 1.38E-06 | 1.38E-06 | 7.69E-07 | 3.61E-06 | 8.20E-10 | 1.19E-08 | 2.15E-07 | 2.15E-07 | 1.18E-07 | 5.62E-07 | 4.45E-10 | 8.44E-09 | 9.59E-08 | 9.59E-08 | 4.75E-06 | 2.46E-07 |
| 2051 | 258172.4 | 4085179 | 5.25E-09 | 7.59E-08 | 1.34E-06 | 1.34E-06 | 7.47E-07 | 3.51E-06 | 7.96E-10 | 1.18E-08 | 2.09E-07 | 2.09E-07 | 1.15E-07 | 5.46E-07 | 4.32E-10 | 8.25E-09 | 9.31E-08 | 9.31E-08 | 4.61E-08 | 2.39E-07 |
| 2052 | 258196.7 | 4085176 | 5.05E-09 | 7.30E-08 | 1.29E-06 | 1.29E-06 | 7.19E-07 | 3.38E-06 | 7.67E-10 | 1.11E-08 | 2.01E-07 | 2.01E-07 | 1.11E-07 | 5.25E-07 | 4.16E-10 | 6.02E-09 | 8.96E-08 | 8.96E-08 | 4.44E-08 | 2.30E-07 |
| 2053 | 258221 | 4085177 | 4.81E-09 | 6.95E-08 | 1.23E-06 | 1.23E-06 | 6.84E-07 | 3.21E-06 | 7.30E-10 | 1.06E-08 | 1.92E-07 | 1.92E-07 | 1.05E-07 | 5.00E-07 | 3.96E-10 | 5.73E-09 | 8.53E-08 | 8.53E-08 | 4.22E-06 | 2.19E-07 |
| 2054 | 258245.3 | 4085175 | 4.50E-09 | 6.51E-08 | 1.15E-06 | 1.13E-06 | 6.41E-07 | 3.01E-06 | 6.83E-10 | 9.92E-09 | 1.79E-07 | 1.79E-07 | 9.87E-08 | 4.68E-07 | 3.71E-10 | 5.37E-09 | 7.99E-08 | 7.99E-08 | 3.95E-08 | 2.05E-07 |
| 2055 | 258269.6 | 4085174 | 4.12E-09 | 5.96E-08 | 1.05E-06 | 1.05E-06 | 5.87E-07 | 2.75E-06 | 6.25E-10 | 9.08E-09 | 1.64E-07 | 1.64E-07 | 9.03E-08 | 4.29E-07 | 3.40E-10 | 4.91E-09 | 7.31E-08 | 7.31E-08 | 3.62E-08 | 1.88E-07 |
| 2056 | 258293.8 | 4085173 | 3.65E-09 | 5.29E-08 | 9.33E-07 | 9.33E-07 | 5.20E-07 | 2.44E-06 | 5.55E-10 | 8.05E-09 | 1.46E-07 | 1.46E-07 | 6.01E-08 | 3.80E-07 | 3.01E-10 | 4.36E-09 | 6.48E-08 | 6.48E-08 | 3.21E-08 | 1.66E-07 |
| 2057 | 258218.1 | 4085172 | 3.11E-09 | 4.49E-06 | 7.93E-07 | 7.93E-07 | 4.42E-07 | 2.08E-06 | 4.71E-10 | 6.85E-09 | 1.24E-07 | 1.24E-07 | 6.81E-08 | 3.23E-07 | 2.56E-10 | 3.70E-09 | 5.51E-08 | 5.51E-08 | 2.73E-08 | 1.41E-07 |
| 2058 | 258342.4 | 4085171 | 2.52E-09 | 3.65E-08 | 6.44E-07 | 6.44E-07 | 3.59E-07 | 1.69E-06 | 3.83E-10 | 5.55E-09 | 1.01E-07 | 1.01E-07 | 5.53E-08 | 2.62E-07 | 2.08E-10 | 3.01E-09 | 4.47E-08 | 4.47E-08 | 2.21E-08 | 1.15E-07 |
| 2059 | 257548.4 | 4085224 | 3.26E-09 | 4.71E-08 | 8.32E-07 | 8.32E-07 | 4.64E-07 | 2.18E-08 | 4.94E-10 | 7.18E-09 | 1.30E-07 | 1.30E-07 | 7.14E-08 | 3.39E-07 | 2.69E-10 | 3.88E-09 | 5.78E-08 | 5.78E-08 | 2.86E-08 | 1.48E-07 |
| 2060 | 257504.3 | 4085193 | 2.92E-09 | 4.22E-08 | 7.46E-07 | 7.46E-07 | 4.16E-07 | 1.95E-08 | 4.43E-10 | 6.43E-09 | 1.16E-07 | 1.16E-07 | 6.40E-08 | 3.04E-07 | 2.41E-10 | 3.46E-09 | 5.18E-08 | 5.18E-08 | 2.56E-08 | 1.33E-07 |
| 2061 | 257590.8 | 4085229 | 3.62E-09 | 5.23E-08 | 9.24E-07 | 9.24E-07 | 5.15E-07 | 2.42E-08 | 5.49E-10 | 7.97E-09 | 1.44E-07 | 1.44E-07 | 7.93E-08 | 3.76E-07 | 2.98E-10 | 4.31E-09 | 8.42E-08 | 8.42E-08 | 3.18E-08 | 1.65E-07 |
| 2062 | 257615 | 4085226 | 3.84E-09 | 5.56E-08 | 9.81E-07 | 9.81E-07 | 5.47E-07 | 2.57E-06 | 5.83E-10 | 8.46E-09 | 1.53E-07 | 1.53E-07 | 8.42E-08 | 4.00E-07 | 3.17E-10 | 4.58E-09 | 8.82E-08 | 8.82E-08 | 3.37E-08 | 1.75E-07 |
| 2063 | 257639.3 | 4085227 | 4.01E-09 | 5.81E-08 | 1.03E-06 | 1.03E-06 | 5.72E-07 | 2.68E-06 | 6.09E-10 | 8.84E-09 | 1.60E-07 | 1.60E-07 | 8.80E-08 | 4.18E-07 | 3.31E-10 | 4.79E-09 | 7.12E-08 | 7.12E-08 | 3.52E-08 | 1.83E-07 |
| 2064 | 257663.6 | 4085226 | 4.14E-09 | 5.99E-06 | 1.06E-08 | 1.06E-06 | 5.90E-07 | 2.77E-06 | 6.29E-10 | 9.13E-09 | 1.65E-07 | 1.65E-07 | 9.09E-08 | 4.31E-07 | 3.42E-10 | 4.94E-09 | 7.35E-08 | 7.35E-08 | 3.64E-06 | 1.89E-07 |
| 2065 | 257687.9 | 4085225 | 4.25E-09 | 6.14E-06 | 1.08E-06 | 1.08E-08 | 6.04E-07 | 2.84E-06 | 6.44E-10 | 9.35E-09 | 1.69E-07 | 1.69E-07 | 9.31E-08 | 4.42E-07 | 3.50E-10 | 5.06E-09 | 7.53E-08 | 7.53E-08 | 3.73E-08 | 1.93E-07 |
| 2066 | 257712.2 | 4085224 | 4.32E-09 | 6.25E-08 | 1.10E-06 | 1.10E-06 | 8.16E-07 | 2.89E-06 | 6.56E-10 | 9.53E-09 | 1.72E-07 | 1.72E-07 | 9.48E-08 | 4.50E-07 | 3.56E-10 | 5.15E-09 | 7.67E-08 | 7.67E-08 | 3.80E-06 | 1.97E-07 |
| 2067 | 257736.5 | 4085223 | 4.38E-09 | 8.34E-08 | 1.12E-06 | 1.12E-06 | 6.24E-07 | 2.93E-06 | 6.65E-10 | 9.66E-09 | 1.75E-07 | 1.75E-07 | 9.61E-08 | 4.56E-07 | 3.61E-10 | 5.23E-09 | 7.76E-08 | 7.76E-08 | 3.85E-06 | 2.00E-07 |
| 2068 | 257760.7 | 4085222 | 4.43E-09 | 6.41E-08 | 1.13E-06 | 1.13E-08 | 6.31E-07 | 2.96E-06 | 6.72E-10 | 9.76E-09 | 1.77E-07 | 1.77E-07 | 9.71E-08 | 4.61E-07 | 3.65E-10 | 5.26E-09 | 7.86E-08 | 7.86E-08 | 3.89E-06 | 2.02E-07 |
| 2069 | 257785 | 4085221 | 4.47E-09 | 6.46E-08 | 1.14E-06 | 1.14E-08 | 6.36E-07 | 2.99E-06 | 6.78E-10 | 9.84E-09 | 1.76E-07 | 1.78E-07 | 9.79E-08 | 4.65E-07 | 3.68E-10 | 5.32E-09 | 7.92E-08 | 7.92E-08 | 3.92E-08 | 2.03E-07 |
| 2070 | 257809.3 | 4085220 | 4.49E-09 | 6.50E-08 | 1.15E-06 | 1.15E-06 | 8.40E-07 | 3.00E-08 | 6.82E-10 | 9.90E-09 | 1.79E-07 | 1.79E-07 | 9.85E-08 | 4.67E-07 | 3.70E-10 | 5.35E-09 | 7.97E-08 | 7.97E-08 | 3.94E-08 | 2.05E-07 |
| 2071 | 257833.6 | 4085219 | 4.51E-09 | 6.52E-08 | 1.15E-08 | 1.15E-06 | 6.42E-07 | 3.02E-08 | 6.84E-10 | 9.94E-09 | 1.80E-07 | 1.80E-07 | 9.89E-08 | 4.69E-07 | 3.72E-10 | 5.38E-09 | 8.00E-08 | 8.00E-08 | 3.96E-08 | 2.05E-07 |
| 2072 | 257857.9 | 4085218 | 4.52E-09 | 6.54E-08 | 1.15E-08 | 1.15E-06 | 6.44E-07 | 3.02E-08 | 6.86E-10 | 9.96E-09 | 1.80E-07 | 1.80E-07 | 9.91E-08 | 4.70E-07 | 3.73E-10 | 5.39E-09 | 8.02E-08 | 8.02E-08 | 3.97E-08 | 2.06E-07 |
| 2073 | 257882.1 | 4085217 | 4.52E-09 | 6.54E-08 | 1.16E-06 | 1.16E-06 | 6.44E-07 | 3.02E-08 | 6.87E-10 | 9.97E-09 | 1.80E-07 | 1.80E-07 | 9.92E-08 | 4.71E-07 | 3.73E-10 | 5.39E-09 | 8.03E-08 | 8.03E-08 | 3.97E-08 | 2.06E-07 |
| 2074 | 257906.4 | 4085215 | 4.50E-09 | 6.51E-08 | 1.15E-08 | 1.15E-06 | 6.41E-07 | 3.01E-08 | 6.83E-10 | 9.92E-09 | 1.80E-07 | 1.80E-07 | 9.87E-08 | 4.69E-07 | 3.71E-10 | 5.37E-09 | 7.99E-08 | 7.99E-08 | 3.96E-08 | 2.05E-07 |
| 2075 | 257930.7 | 4085214 | 4.46E-09 | 6.45E-08 | 1.14E-06 | 1.14E-08 | 6.35E-07 | 2.98E-06 | 6.77E-10 | 9.83E-09 | 1.76E-07 | 1.78E-07 | 9.78E-08 | 4.64E-07 | 3.68E-10 | 5.32E-09 | 7.92E-08 | 7.92E-08 | 3.92E-08 | 2.03E-07 |
| 2076 | 257955 | 4085213 | 4.44E-09 | 6.43E-06 | 1.14E-06 | 1.14E-06 | 6.33E-07 | 2.97E-06 | 6.74E-10 | 9.79E-09 | 1.77E-07 | 1.77E-07 | 9.74E-08 | 4.62E-07 | 3.66E-10 | 5.30E-09 | 7.88E-08 | 7.88E-08 | 3.90E-08 | 2.02E-07 |
| 2077 | 257979.3 | 4085212 | 4.42E-09 | 6.39E-08 | 1.13E-06 | 1.13E-08 | 6.29E-07 | 2.95E-06 | 6.71E-10 | 9.74E-09 | 1.76E-07 | 1.76E-07 | 9.69E-08 | 4.60E-07 | 3.64E-10 | 5.27E-09 | 7.84E-08 | 7.84E-08 | 3.88E-08 | 2.01E-07 |
| 2078 | 258003.6 | 4085211 | 4.38E-09 | 6.34E-08 | 1.12E-06 | 1.12E-06 | 6.24E-07 | 2.93E-08 | 6.65E-10 | 9.66E-09 | 1.75E-07 | 1.75E-07 | 9.61E-08 | 4.56E-07 | 3.61E-10 | 5.23E-09 | 7.78E-08 | 7.78E-08 | 3.85E-08 | 2.00E-07 |
| 2079 | 258027.8 | 4085210 | 4.34E-09 | 6.26E-08 | 1.11E-06 | 1.11E-06 | 6.18E-07 | 2.90E-06 | 6.59E-10 | 9.56E-09 | 1.73E-07 | 1.73E-07 | 9.51E-08 | 4.51E-07 | 3.58E-10 | 5.17E-09 | 7.70E-08 | 7.70E-08 | 3.81E-08 | 1.98E-07 |
| 2080 | 258052.1 | 4085209 | 4.26E-09 | 6.20E-08 | 1.09E-06 | 1.09E-06 | 6.10E-07 | 2.86E-06 | 6.50E-10 | 9.44E-09 | 1.71E-07 | 1.71E-07 | 9.39E-08 | 4.46E-07 | 3.53E-10 | 5.11E-09 | 7.60E-08 | 7.60E-08 | 3.76E-08 | 1.95E-07 |
| 2081 | 258076.4 | 4085208 | 4.22E-09 | 6.10E-08 | 1.08E-06 | 1.08E-06 | 6.00E-07 | 2.82E-06 | 6.40E-10 | 9.29E-09 | 1.68E-07 | 1.68E-07 | 9.24E-08 | 4.39E-07 | 3.47E-10 | 5.03E-09 | 7.48E-08 | 7.48E-08 | 3.70E-08 | 1.92E-07 |
| 2082 | 258100.7 | 4085207 | 4.13E-09 | 5.96E-08 | 1.06E-08 | 1.06E-06 | 5.88E-07 | 2.76E-06 | 6.27E-10 | 9.10E-09 | 1.65E-07 | 1.65E-07 | 9.06E-08 | 4.30E-07 | 3.41E-10 | 4.93E-09 | 7.33E-08 | 7.33E-08 | 3.63E-08 | 1.88E-07 |
| 2083 | 258125 | 4085206 | 4.03E-09 | 5.83E-08 | 1.03E-08 | 1.03E-08 | 5.74E-07 | 2.70E-08 | 6.12E-10 | 8.88E-09 | 1.61E-07 | 1.61E-07 | 8.84E-08 | 4.19E-07 | 3.32E-10 | 4.61E-09 | 7.15E-08 | 7.15E-08 | 3.54E-08 | 1.84E-07 |
| 2084 | 258149.2 | 4085205 | 3.91E-09 | 5.66E-08 | 9.99E-07 | 9.99E-07 | 5.57E-07 | 2.62E-08 | 5.94E-10 | 8.62E-09 | 1.56E-07 | 1.56E-07 | 8.57E-08 | 4.07E-07 | 3.22E-10 | 4.66E-09 | 8.94E-08 | 8.94E-08 | 3.43E-08 | 1.76E-07 |
| 2085 | 256173.5 | 4085204 | 3.77E-09 | 5.45E-08 | 9.62E-07 | 9.62E-07 | 5.36E-07 | 2.52E-08 | 5.71E-10 | 6.30E-09 | 1.50E-07 | 1.50E-07 | 8.26E-08 | 3.92E-07 | 3.10E-10 | 4.49E-09 | 8.68E-08 | 8.68E-08 | 3.31E-08 | 1.71E-07 |
| 2086 | 258197.8 | 4085203 | 3.59E-09 | 5.19E-08 | 9.17E-07 | 9.17E-07 | 5.11E-07 | 2.40E-08 | 5.45E-10 | 7.91E-09 | 1.43E-07 | 1.43E-07 | 7.87E-08 | 3.74E-07 | 2.96E-10 | 4.26E-09 | 8.37E-08 | 8.37E-08 | 3.15E-08 | 1.64E-07 |
| 2087 | 258222.1 | 4085201 | 3.38E-09 | 4.89E-08 | 8.63E-07 | 8.63E-07 | 4.81E-07 | 2.26E-08 | 5.13E-10 | 7.45E-09 | 1.35E-07 | 1.35E-07 | 7.41E-08 | 3.52E-07 | 2.79E-10 | 4.03E-09 | 6.00E-08 | 6.00E-08 | 2.97E-08 | 1.54E-07 |
| 2088 | 258248.4 | 4085200 | 3.13E-09 | 4.53E-08 | 8.00E-07 | 8.00E-07 | 4.46E-07 | 2.09E-06 | 4.75E-10 | 6.90E-09 | 1.25E-07 | 1.25E-07 | 6.66E-08 | 3.26E-07 | 2.58E-10 | 3.73E-09 | 5.55E-08 | 5.55E-08 | 2.75E-08 | 1.43E-07 |
| 2089 | 258270.7 | 4085199 | 2.84E-09 | 4.11E-08 | 7.26E-07 | 7.26E-07 | 4.05E-07 | 1.90E-06 | 4.31E-10 | 6.26E-09 | 1.13E-07 | 1.13E-07 | 6.23E-08 | 2.96E-07 | 2.34E-10 | 3.39E-09 | 5.04E-08 | 5.04E-08 | 2.50E-08 | 1.29E-07 |
| 2090 | 258294.9 | 4085198 | 2.51E-09 | 3.84E-08 | 6.42E-07 | 6.42E-07 | 3

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1885 | 256462.3 | 4085152 | 6.93E-11 | 1.00E-09 | 1.77E-08 | 1.77E-08 | 9.86E-09 | 4.63E-08 | 1.05E-11 | 1.53E-10 | 2.76E-09 | 2.76E-09 | 1.52E-09 | 7.21E-09 | 5.71E-12 | 8.26E-11 | 1.23E-09 | 1.23E-09 | 6.08E-10 | 3.15E-09 |
| 1886 | 256463.9 | 4085196 | 7.05E-11 | 1.02E-09 | 1.80E-08 | 1.80E-08 | 1.00E-08 | 4.71E-06 | 1.07E-11 | 1.55E-10 | 2.61E-09 | 2.81E-09 | 1.55E-09 | 7.33E-09 | 5.81E-12 | 8.41E-11 | 1.25E-09 | 1.25E-09 | 6.19E-10 | 3.21E-09 |
| 1887 | 256264.3 | 4084983 | 4.92E-11 | 7.12E-10 | 1.26E-08 | 1.26E-08 | 7.01E-09 | 3.29E-08 | 7.47E-12 | 1.08E-10 | 1.96E-09 | 1.96E-09 | 1.08E-09 | 5.12E-09 | 4.06E-12 | 5.87E-11 | 8.73E-10 | 8.73E-10 | 4.32E-10 | 2.24E-09 |
| 1888 | 256279.6 | 4084941 | 4.61E-11 | 6.66E-10 | 1.18E-08 | 1.18E-08 | 6.56E-09 | 3.08E-08 | 6.99E-12 | 1.02E-10 | 1.84E-09 | 1.84E-09 | 1.01E-09 | 4.79E-09 | 3.80E-12 | 5.49E-11 | 8.18E-10 | 8.18E-10 | 4.05E-10 | 2.10E-09 |
| 1689 | 256294.9 | 4084900 | 4.29E-11 | 6.20E-10 | 1.10E-08 | 1.10E-08 | 6.10E-09 | 2.87E-08 | 6.51E-12 | 9.45E-11 | 1.71E-09 | 1.71E-09 | 9.40E-10 | 4.46E-09 | 3.53E-12 | 5.11E-11 | 7.61E-10 | 7.61E-10 | 3.77E-10 | 1.95E-09 |
| 1890 | 256310.2 | 4084858 | 3.99E-11 | 5.78E-10 | 1.02E-08 | 1.02E-08 | 5.89E-09 | 2.67E-08 | 6.06E-12 | 8.80E-11 | 1.59E-09 | 1.59E-09 | 8.76E-10 | 4.15E-09 | 3.29E-12 | 4.76E-11 | 7.09E-10 | 7.09E-10 | 3.51E-10 | 1.82E-09 |
| 1891 | 256325.6 | 4084817 | 3.74E-11 | 5.42E-10 | 9.56E-09 | 9.56E-09 | 5.53E-09 | 2.50E-08 | 5.68E-12 | 8.25E-11 | 1.49E-09 | 1.49E-09 | 8.21E-10 | 3.90E-09 | 3.09E-12 | 4.46E-11 | 6.64E-10 | 6.64E-10 | 3.29E-10 | 1.71E-09 |
| 1892 | 256340.9 | 4084776 | 3.55E-11 | 5.13E-10 | 9.06E-09 | 9.06E-09 | 5.05E-09 | 2.37E-08 | 5.36E-12 | 7.81E-11 | 1.41E-09 | 1.41E-09 | 7.78E-10 | 3.69E-09 | 2.92E-12 | 4.23E-11 | 6.29E-10 | 6.29E-10 | 3.11E-10 | 1.62E-09 |
| 1893 | 256356.2 | 4084734 | 3.39E-11 | 4.90E-10 | 8.66E-09 | 8.66E-09 | 4.63E-09 | 2.27E-08 | 5.15E-12 | 7.47E-11 | 1.35E-09 | 1.35E-09 | 7.43E-10 | 3.53E-09 | 2.79E-12 | 4.04E-11 | 6.02E-10 | 6.02E-10 | 2.98E-10 | 1.54E-09 |
| 1894 | 256371.5 | 4084693 | 3.26E-11 | 4.72E-10 | 8.33E-09 | 8.33E-09 | 4.64E-09 | 2.18E-08 | 4.95E-12 | 7.18E-11 | 1.30E-09 | 1.30E-09 | 7.15E-10 | 3.39E-09 | 2.89E-12 | 3.89E-11 | 5.79E-10 | 5.79E-10 | 2.86E-10 | 1.48E-09 |
| 1895 | 256386.8 | 4084652 | 3.14E-11 | 4.54E-10 | 8.02E-09 | 6.02E-09 | 4.47E-09 | 2.10E-08 | 4.76E-12 | 6.92E-11 | 1.25E-09 | 1.25E-09 | 6.88E-10 | 3.27E-09 | 2.59E-12 | 3.74E-11 | 5.57E-10 | 5.57E-10 | 2.76E-10 | 1.43E-09 |
| 1896 | 256402.2 | 4084810 | 3.01E-11 | 4.35E-10 | 7.66E-09 | 7.68E-09 | 4.28E-09 | 2.01E-08 | 4.56E-12 | 6.62E-11 | 1.20E-09 | 1.20E-09 | 6.59E-10 | 3.13E-09 | 2.48E-12 | 3.58E-11 | 5.33E-10 | 5.33E-10 | 2.64E-10 | 1.37E-09 |
| 1897 | 256417.5 | 4084569 | 2.86E-11 | 4.13E-10 | 7.29E-09 | 7.29E-09 | 4.07E-09 | 1.91E-08 | 4.33E-12 | 6.29E-11 | 1.14E-09 | 1.14E-09 | 6.26E-10 | 2.97E-09 | 2.35E-12 | 3.40E-11 | 5.07E-10 | 5.07E-10 | 2.51E-10 | 1.30E-09 |
| 1898 | 256432.8 | 4084527 | 2.68E-11 | 3.88E-10 | 6.85E-09 | 6.85E-09 | 3.82E-09 | 1.79E-08 | 4.07E-12 | 5.91E-11 | 1.07E-09 | 1.07E-09 | 5.88E-10 | 2.79E-09 | 2.21E-12 | 3.20E-11 | 4.76E-10 | 4.76E-10 | 2.35E-10 | 1.22E-09 |
| 1899 | 256448.1 | 4084486 | 2.49E-11 | 3.60E-10 | 6.36E-09 | 6.36E-09 | 3.55E-09 | 1.67E-08 | 3.78E-12 | 5.49E-11 | 9.93E-10 | 9.93E-10 | 5.46E-10 | 2.59E-09 | 2.05E-12 | 2.97E-11 | 4.42E-10 | 4.42E-10 | 2.19E-10 | 1.13E-09 |
| 1900 | 256463.4 | 4084445 | 2.31E-11 | 3.34E-10 | 5.90E-09 | 5.90E-09 | 3.29E-09 | 1.54E-08 | 3.51E-12 | 5.09E-11 | 9.21E-10 | 9.21E-10 | 5.07E-10 | 2.40E-09 | 1.90E-12 | 2.75E-11 | 4.10E-10 | 4.10E-10 | 2.03E-10 | 1.05E-09 |
| 1901 | 256478.7 | 4084403 | 2.16E-11 | 3.12E-10 | 5.51E-09 | 5.51E-09 | 3.07E-09 | 1.44E-08 | 3.27E-12 | 4.75E-11 | 8.60E-10 | 8.60E-10 | 4.73E-10 | 2.24E-09 | 1.78E-12 | 2.57E-11 | 3.83E-10 | 3.83E-10 | 1.89E-10 | 9.82E-10 |
| 1902 | 256494.1 | 4084362 | 2.04E-11 | 2.95E-10 | 5.20E-09 | 5.20E-09 | 2.90E-09 | 1.36E-08 | 3.09E-12 | 4.49E-11 | 8.13E-10 | 8.13E-10 | 4.47E-10 | 2.12E-09 | 1.68E-12 | 2.43E-11 | 3.62E-10 | 3.62E-10 | 1.79E-10 | 9.28E-10 |
| 1903 | 256509.4 | 4084321 | 1.96E-11 | 2.83E-10 | 5.00E-09 | 5.00E-09 | 2.79E-09 | 1.31E-08 | 2.97E-12 | 4.32E-11 | 7.81E-10 | 7.81E-10 | 4.29E-10 | 2.04E-09 | 1.61E-12 | 2.33E-11 | 3.47E-10 | 3.47E-10 | 1.72E-10 | 8.92E-10 |
| 1904 | 256524.7 | 4084279 | 1.91E-11 | 2.76E-10 | 4.88E-09 | 4.88E-09 | 2.72E-09 | 1.28E-08 | 2.90E-12 | 4.21E-11 | 7.62E-10 | 7.62E-10 | 4.19E-10 | 1.99E-09 | 1.58E-12 | 2.28E-11 | 3.39E-10 | 3.39E-10 | 1.68E-10 | 8.70E-10 |
| 1905 | 256540 | 4084238 | 1.88E-11 | 2.73E-10 | 4.81E-09 | 4.81E-09 | 2.68E-09 | 1.26E-08 | 2.86E-12 | 4.15E-11 | 7.51E-10 | 7.51E-10 | 4.13E-10 | 1.96E-09 | 1.55E-12 | 2.25E-11 | 3.34E-10 | 3.34E-10 | 1.65E-10 | 8.58E-10 |
| 1906 | 256555.3 | 4084197 | 1.87E-11 | 2.70E-10 | 4.77E-09 | 4.77E-09 | 2.66E-09 | 1.25E-08 | 2.84E-12 | 4.12E-11 | 7.45E-10 | 7.45E-10 | 4.10E-10 | 1.94E-09 | 1.54E-12 | 2.23E-11 | 3.32E-10 | 3.32E-10 | 1.64E-10 | 6.51E-10 |
| 1907 | 256570.7 | 4084155 | 1.86E-11 | 2.68E-10 | 4.74E-09 | 4.74E-09 | 2.64E-09 | 1.24E-08 | 2.82E-12 | 4.09E-11 | 7.40E-10 | 7.40E-10 | 4.07E-10 | 1.93E-09 | 1.53E-12 | 2.21E-11 | 3.29E-10 | 3.29E-10 | 1.63E-10 | 6.45E-10 |
| 1908 | 256586 | 4084114 | 1.84E-11 | 2.66E-10 | 4.70E-09 | 4.70E-09 | 2.62E-09 | 1.23E-08 | 2.80E-12 | 4.06E-11 | 7.35E-10 | 7.35E-10 | 4.04E-10 | 1.92E-09 | 1.52E-12 | 2.20E-11 | 3.27E-10 | 3.27E-10 | 1.62E-10 | 6.39E-10 |
| 1909 | 256621.3 | 4084063 | 1.83E-11 | 2.65E-10 | 4.67E-09 | 4.67E-09 | 2.60E-09 | 1.22E-06 | 2.76E-12 | 4.03E-11 | 7.29E-10 | 7.29E-10 | 4.01E-10 | 1.90E-09 | 1.51E-12 | 2.18E-11 | 3.24E-10 | 3.24E-10 | 1.61E-10 | 6.33E-10 |
| 1910 | 256661.4 | 4084045 | 1.84E-11 | 2.67E-10 | 4.71E-09 | 4.71E-09 | 2.63E-09 | 1.23E-08 | 2.80E-12 | 4.06E-11 | 7.36E-10 | 7.36E-10 | 4.04E-10 | 1.92E-09 | 1.52E-12 | 2.20E-11 | 3.27E-10 | 3.27E-10 | 1.62E-10 | 6.40E-10 |
| 1911 | 256701.4 | 4084026 | 1.86E-11 | 2.68E-10 | 4.74E-09 | 4.74E-09 | 2.64E-09 | 1.24E-06 | 2.82E-12 | 4.09E-11 | 7.40E-10 | 7.40E-10 | 4.07E-10 | 1.93E-09 | 1.53E-12 | 2.21E-11 | 3.29E-10 | 3.29E-10 | 1.63E-10 | 6.45E-10 |
| 1912 | 256741.5 | 4084008 | 1.67E-11 | 2.70E-10 | 4.77E-09 | 4.77E-09 | 2.66E-09 | 1.23E-08 | 2.83E-12 | 4.11E-11 | 7.44E-10 | 7.44E-10 | 4.09E-10 | 1.94E-09 | 1.54E-12 | 2.22E-11 | 3.31E-10 | 3.31E-10 | 1.64E-10 | 8.50E-10 |
| 1913 | 256781.5 | 4083989 | 1.88E-11 | 2.71E-10 | 4.79E-09 | 4.79E-09 | 2.67E-09 | 1.25E-06 | 2.85E-12 | 4.13E-11 | 7.48E-10 | 7.48E-10 | 4.11E-10 | 1.95E-09 | 1.55E-12 | 2.24E-11 | 3.33E-10 | 3.33E-10 | 1.65E-10 | 8.55E-10 |
| 1914 | 256821.8 | 4083971 | 1.88E-11 | 2.73E-10 | 4.81E-09 | 4.81E-09 | 2.68E-09 | 1.26E-08 | 2.86E-12 | 4.15E-11 | 7.51E-10 | 7.51E-10 | 4.13E-10 | 1.96E-09 | 1.55E-12 | 2.25E-11 | 3.34E-10 | 3.34E-10 | 1.65E-10 | 6.58E-10 |
| 1915 | 256861.8 | 4083952 | 1.89E-11 | 2.73E-10 | 4.82E-09 | 4.82E-09 | 2.69E-09 | 1.26E-08 | 2.86E-12 | 4.16E-11 | 7.53E-10 | 7.53E-10 | 4.14E-10 | 1.96E-09 | 1.56E-12 | 2.25E-11 | 3.35E-10 | 3.35E-10 | 1.66E-10 | 8.59E-10 |
| 1916 | 256901.8 | 4083934 | 1.88E-11 | 2.73E-10 | 4.81E-09 | 4.81E-09 | 2.68E-09 | 1.26E-08 | 2.86E-12 | 4.15E-11 | 7.51E-10 | 7.51E-10 | 4.13E-10 | 1.96E-09 | 1.55E-12 | 2.25E-11 | 3.34E-10 | 3.34E-10 | 1.85E-10 | 8.58E-10 |
| 1917 | 256941.7 | 4083915 | 1.87E-11 | 2.71E-10 | 4.79E-09 | 4.79E-09 | 2.67E-09 | 1.25E-08 | 2.84E-12 | 4.13E-11 | 7.47E-10 | 7.47E-10 | 4.11E-10 | 1.95E-09 | 1.54E-12 | 2.23E-11 | 3.32E-10 | 3.32E-10 | 1.65E-10 | 8.53E-10 |
| 1916 | 256981.7 | 4083897 | 1.86E-11 | 2.69E-10 | 4.75E-09 | 4.75E-09 | 2.65E-09 | 1.24E-06 | 2.82E-12 | 4.09E-11 | 7.41E-10 | 7.41E-10 | 4.07E-10 | 1.93E-09 | 1.53E-12 | 2.22E-11 | 3.30E-10 | 3.30E-10 | 1.63E-10 | 8.46E-10 |
| 1919 | 257021.8 | 4083876 | 1.84E-11 | 2.66E-10 | 4.70E-09 | 4.70E-09 | 2.62E-09 | 1.23E-08 | 2.79E-12 | 4.05E-11 | 7.34E-10 | 7.34E-10 | 4.03E-10 | 1.91E-09 | 1.52E-12 | 2.19E-11 | 3.26E-10 | 3.26E-10 | 1.62E-10 | 8.38E-10 |
| 1920 | 257061.8 | 4083860 | 1.82E-11 | 2.62E-10 | 4.65E-09 | 4.65E-09 | 2.59E-09 | 1.22E-06 | 2.76E-12 | 4.01E-11 | 7.26E-10 | 7.26E-10 | 3.99E-10 | 1.89E-09 | 1.50E-12 | 2.17E-11 | 3.23E-10 | 3.23E-10 | 1.60E-10 | 8.29E-10 |
| 1921 | 257101.9 | 4083841 | 1.81E-11 | 2.61E-10 | 4.61E-09 | 4.61E-09 | 2.57E-09 | 1.21E-06 | 2.74E-12 | 3.96E-11 | 7.20E-10 | 7.20E-10 | 3.96E-10 | 1.88E-09 | 1.49E-12 | 2.15E-11 | 3.20E-10 | 3.20E-10 | 1.59E-10 | 6.22E-10 |
| 1922 | 257141.9 | 4083823 | 1.79E-11 | 2.59E-10 | 4.57E-09 | 4.57E-09 | 2.55E-09 | 1.20E-08 | 2.72E-12 | 3.94E-11 | 7.13E-10 | 7.13E-10 | 3.92E-10 | 1.86E-09 | 1.47E-12 | 2.13E-11 | 3.17E-10 | 3.17E-10 | 1.57E-10 | 8.15E-10 |
| 1923 | 257182 | 4083804 | 1.77E-11 | 2.56E-10 | 4.53E-09 | 4.53E-09 | 2.52E-09 | 1.19E-08 | 2.89E-12 | 3.91E-11 | 7.07E-10 | 7.07E-10 | 3.89E-10 | 1.84E-09 | 1.46E-12 | 2.11E-11 | 3.15E-10 | 3.15E-10 | 1.56E-10 | 6.08E-10 |
| 1924 | 257222 | 4083786 | 1.76E-11 | 2.54E-10 | 4.49E-09 | 4.49E-09 | 2.50E-09 | 1.18E-08 | 2.67E-12 | 3.87E-11 | 7.01E-10 | 7.01E-10 | 3.85E-10 | 1.83E-09 | 1.45E-12 | 2.10E-11 | 3.12E-10 | 3.12E-10 | 1.54E-10 | 8.00E-10 |
| 1925 | 257262.1 | 4083767 | 1.74E-11 | 2.52E-10 | 4.45E-09 | 4.45E-09 | 2.48E-09 | 1.17E-06 | 2.65E-12 | 3.84E-11 | 6.96E-10 | 6.96E-10 | 3.82E-10 | 1.81E-09 | 1.44E-12 | 2.08E-11 | 3.09E-10 | 3.09E-10 | 1.53E-10 | 7.94E-10 |
| 1926 | 257302.1 | 4083749 | 1.73E-11 | 2.50E-10 | 4.42E-09 | 4.42E-09 | 2.46E-09 | 1.16E-06 | 2.63E-12 | 3.81E-11 | 6.90E-10 | 6.90E-10 | 3.79E-10 | 1.80E-09 | 1.43E-12 | 2.06E-11 | 3.07E-10 | 3.07E-10 | 1.52E-10 | 7.88E-10 |
| 1927 | 257342.2 | 4083730 | 1.72E-11 | 2.48E-10 | 4.39E-09 | 4.39E-09 | 2.45E-09 | 1.15E-06 | 2.61E-12 | 3.78E-11 | 6.85E-10 | 6.85E-10 | 3.77E-10 | 1.79E-09 | 1.42E-12 | 2.05E-11 | 3.05E-10 | 3.05E-10 | 1.51E-10 | 7.82E-10 |
| 1926 | 257382.2 | 4083712 | 1.71E-11 | 2.47E-10 | 4.36E-09 | 4.36E-09 | 2.43E-09 | 1.14E-08 | 2.59E-12 | 3.76E-11 | 6.81E-10 | 6.81E-10 | 3.74E-10 | 1.78E-09 | 1.41E-12 | 2.04E-11 | 3.03E-10 | 3.03E-10 | 1.50E-10 | 7.77E-10 |
| 1929 | 257422.2 | 4083693 | 1.70E-11 | 2.46E-10 | 4.34E-09 | 4.34E-09 | 2.42E-09 | 1.14E-08 | 2.58E-12 | 3.74E-11 | 6.78E-10 | 6.78E-10 | 3.73E-10 | 1.77E-09 | 1.40E-12 | 2.03E-11 | 3.01E-10 | 3.01E-10 | 1.49E-10 | 7.74E-10 |
| 1930 | 257462.3 | 4083675 | 1.69E-11 | 2.45E-10 | 4.33E-09 | 4.33E-09 | 2.41E-09 | 1.13E-08 | 2.57E-12 | 3.73E-11 | 6.75E-10 | 6.75E-10 | 3.71E-10 | 1.76E-09 | 1.40E-12 | 2.02E-11 | 3.01E-10 | 3.01E-10 | 1.49E-10 | 7.71E-10 |
| 1931 | 256257.5 | 4085025 | 5.22E-11 | 7.55E-10 | 1.33E-08 | 1.33E-08 | 7.43E-09 | 3.49E-08 | 7.92E-12 | 1.15E-10 | 2.08E-09 | 2.08E-09 | 1.14E-09 | 5.43E-09 | 4.30E-12 | 6.22E-11 | 9.26E-10 | 9.26E-10 | 4.58E-10 | 2.38E-09 |
| 1932 | 256259.1 | 4085070 | 5.47E-11 | 7.91E-10 | 1.40E-08 | 1.40E-08 | 7.79E-09 | 3.68E-08 | 8.30E-12 | 1.21E-10 | 2.18E-09 | 2.18E-09 | 1.20E-09 | 5.69E-09 | 4.51E-12 | 6.52E-11 | 9.71E-10 | 9.71E-10 | 4.80E-10 | 2.49E-09 |
| 1933 | 256260.8 | 4085115 | 5.62E-11 | 8.13E-10 | 1.44E-08 | 1.44E-08 | 8.01E-09 | 3.76E-08 | 8.54E-12 | 1.24E-10 | 2.24E-09 | 2.24E-09 | 1.23E-09 | 5.85E-09 | 4.64E-12 | 6.70E-11 | 9.98E-10 | 9.98E-10 | 4.94E-10 | 2.56E-09 |
| 1934 | 256261.6 | 4085137 | 5.67E-11 | 8.21E-10 | 1.45E-08 | 1.45E-08 | 8.08E-09 | 3.79E-08 | 8.61E-12 | 1.25E-10 | 2.26E-09 | 2.26E-09 | 1.24E-09 | 5.90E-09 | 4.68E-12 | 6.76E-11 | 1.01E-09 | 1.01E-09 | 4.98E-10 | 2.58E-09 |
| 1935 | 256263.2 | 4085181 | 5.75E-11 | 8.31E-10 | 1.47E-08 | 1.47E-08 | 6.19E-09 | 3.84E-08 | 6.72E-12 | 1.27E-10 | 2.29E-09 | 2.29E-09 | 1.26E-09 | 5.98E-09 | 4.74E-12 | 6.85E-11 | 1.02E-09 | 1.02E-09 | 5.05E-10 | 2.62E-09 |
| 1936 | 256064.4 | 4084990 | 4.31E-11 | 6.23E-10 | 1.10E-08 | 1.10E-08 | 6.13E-09 | 2.88E-08 | 6.54E-12 | 9.49E-11 | 1.77E-09 | 1.72E-09 | 9.45E-10 | 4.48E-09 | 3.55E-12 | 5.14E-11 | 7.64E-10 | 7.64E-10 | 3.78E-10 | 1.96E-09 |
| 1937 | 256079.7 | 4084949 | 4.08E-11 | 5.89E-10 | 1.04E-08 | 1.04E-08 | 5.80E-09 | 2.73E-08 | 6.19E-12 | 6.98E-11 | 1.62E-09 | 1.63E-09 | 6.94E-10 | 4.24E-09 | 3.36E-12 | 4.86E-11 | 7.23E-10 | 7.23E-10 | 3.58E-10 | 1.86E-09 |
| 1938 | 256095 | 4084907 | 3.82E-11 | 5.53E-10 | 9.76E-09 | 9.76E-09 | 5.44E-09 | 2.56E-08 | 5.80E-12 | 6.42E-11 | 1.52E-09 | 1.52E-09 | 6.38E-10 | 3.98E-09 | 3.15E-12 | 4.56E-11 | 6.78E-10 | 6.78E-10 | 3.36E-10 | 1.74E-09 |
| 1939 | 256110.3 | 4084866 | 3.58E-11 | 5.16E-10 | 9.14E-09 | 9.14E-09 | 5.10E-09 | 2.39E-08 | 5.43E-12 | 7.88E-11 | 1.43E-09 | 1.43E-09 | 7.84E-10 | 3.72E-09 | 2.95E-12 | 4.27E-11 | 6.35E-10 | 6.35E-10 | 3.14E-10 | 1.63E-09 |
| 1940 | 256125.6 | 4084825 | 3.36E-11 | 4.86E-10 | 6.58E-09 | 8.58E-09 | 4.79E-09 | 2.25E-08 | 5.10E-12 | 7.41E-11 | 1.34E-09 | 1.34E-09 | 7.37E-10 | 3.50E-09 | 2.77E-12 | 4.01E-11 | 5.96E-10 | 5.96E-10 | 2.95E-10 | 1.53E-09 |
| 1941 | 256140.9 | 4084783 | 3.18E-11 | 4.60E-10 | 8.12E-09 | 6.12E-09 | 4.53E-09 | 2.13E-08 | 4.83E-12 | 7.01E-11 | 1.27E-09 | 1.27E-09 | 6.97E-10 | 3.31E-09 | 2.62E-12 | 3.79E-11 | 5.64E-10 | 5.64E-10 | 2.79E-10 | 1.45E-09 |
| 1942 | 256156.2 | 4084742 | 3.04E-11 | 4.39E-10 | 7.76E-09 | 7.76E-09 | 4.33E-09 | 2.03E-08 | 4.61E-12 | 6.69E-11 | 1.21E-09 | 1.21E-09 | 6.66E-10 | 3.18E-09 | 2.50E-12 | 3.62E-11 | 5.39E-10 | 5.39E-10 | 2.67E-10 | 1.38E-09 |
| 1943 | 256171.5 | 4084701 | 2.92E-11 | 4.23E-10 | 7.47E-09 | 7.47E-09 | 4.16E-09 | 1.96E-08 | 4.44E-12 | 6.44E-11 | 1.17E-09 | 1.17E-09 | 6.41E-10 | 3.04E-09 | 2.41E-12 | 3.49E-11 | 5.19E-10 | 5.19E-10 | 2.57E-10 | 1.33E-09 |
| 1944 | 256186.8 | 4084660 | 2.83E-11 | 4.09E-10 | 7.23E-09 | 7.23E-09 | 4.03E-09 | 1.89E-08 | 4.29E-12 | 6.23E-11 | 1.13E-09 | 1.13E-09 | 6.20E-10 | 2.94E-09 | 2.33E-12 | 3.37E-11 | 5.02E-10 | 5.02E-10 | 2.48E-10 | 1.29E-09 |
| 1945 | 256202.1 | 4084618 | 2.74E-11 | 3.97E-10 | 7.00E-09 | 7.00E-09 | 3.90E-09 | 1.83E-08 | 4.16E-12 | 6.04E-11 | 1.09E-09 | 1.09E-09 | 6.01E-10 | 2.85E-09 | 2.26E-12 | 3.27E-11 | 4.86E-10 | 4.86E-10 | 2.41E-10 | 1.25E-09 |
| 1946 | 256217.4 | 4084577 | 2.65E-11 | 3.83E-10 | 6.77E-09 | 6.77E-09 | 3.77E-09 | 1.77E-08 | 4.02E-12 | 5.84E-11 | 1.06E-09 | 1.06E-09 | 5.81E-10 | 2.76E-09 | 2.18E-12 | 3.16E-11 | 4.70E-10 | 4.70E-10 | 2.33E-10 | 1.21E-09 |
| 1947 | 256232.7 | 4084536 | 2.54E-11 | 3.68E-10 | 6.50E-09 | 6.50E-09 | 3.62E-09 | 1.70E-08 | 3.86E-12 | 5.60E-11 | 1.01E-09 | 1.01E-09 | 5.58E-10 | 2.65E-09 | 2.10E-12 | 3.03E-11 | 4.51E-10 | 4.51E-10 | 2.23E-10 | 1.16E-09 |
| 1948 | 256248 | 4084494 | 2.41E-11 | 3.49E-10 | 6.16E-09 | 6.18E-09 | 3.44E-09 | 1.61E-08 | 3.66E-12 | 5.32E-11 | 9.63E-10 | 9.63E-10 | 5.29E-10 | 2.51E-09 | 1.99E-12 | 2.88E-11 | 4.28E-10 | 4.28E-10 | 2.12E-10 | 1.10E-09 |
| 1949 | 256262.3 | 4084453 | 2.26E-11 | 3.27E-10 | 5.77E-09 | 5.77E-09 | 3.22E-09 | 1.51E-08 | 3.43E-12 | 4.98E-11 | 9.01E-10 | 9.01E-10 | 4.96E-10 | 2.35E-09 | 1.86E-12 | 2.69E-11 | 4.01E-10 | 4.01E-10 | 1.98E-10 | 1.03E-09 |
| 1950 | 256278.6 | 4084412 | 2.11E-11 | 3.05E-10 | 5.38E-09 | 5.38E-09 | 3.00E-09 | 1.41E-08 | 3.20E-12 | 4.64E-11 | 8.40E-10 | 8.40E-10 | 4.62E-10 | 2.19E-09 | 1.74E-12 | 2.51E-11 | 3.74E-10 | 3.74E-10 | 1.85E-10 | 9.59E-10 |
| 1951 | 256293.9 | 4084370 | 1.95E-11 | 2.83E-10 | 4.99E-09 | 4.99E-09 | 2.76E-09 | 1.31E-08 | 2.96E-12 | 4.30E-11 | 7.79E-10 | 7.79E-10 | 4.28E-10 | 2.03E-09 | 1.61E-12 | 2.33E-11 | 3.47E-10 | 3.47E-10 | 1.72E-10 | 6.90E-10 |
| 1952 | 256309.2 | 4084329 | 1.82E-11 | 2.63E-10 | 4.65E-09 | 4.65E-09 | 2.59E-09 | 1.22E-08 | 2.76E-12 | 4.01E-11 | 7.26E-10 | 7.26E-10 | 3.99E-10 | 1.89E-09 | 1.50E-12 | 2.17E-11 | 3.23E-10 | 3.23E-10 | 1.60E-10 | 8.29E-10 |
| 1953 | 256324.4 | 4084288 | 1.72E-11 | 2.48E-10 | 4.39E-09 | 4.39E-09 | 2.45E-09 | 1.15E-08 | 2.61E-12 | 3.78E-11 | 6.85E-10 | 6.85E-10 | 3.77E-10 | 1.79E-09 | 1.42E-12 | 2.05E-11 | 3.05E-10 | 3.05E-10 | 1.51E-10 | 7.82E-10 |
| 1954 | 256339.7 | 4084246 | 1.65E-11 | 2.38E-10 | 4.20E-09 | 4.20E-09 | 2.34E-09 | 1.10E-08 | 2.50E-12 | 3.63E-11 | 6.56E-10 | 6.56E-10 | 3.61E-10 | 1.71E-09 | 1.36E-12 | 1.96E-11 | 2.92E-10 | 2.92E-10 | 1.45E-10 | 7.50E-10 |
| 1955 | 256355 | 4084205 | 1.60E-11 | 2.32E-10 | 4.10E-09 | 4.10E-09 | 2.28E-09 | 1.07E-08 | 2.43E-12 | 3.53E-11 | 6.40E-10 | 6.40E-10 | 3.52E-10 | 1.67E-09 | 1.32E-12 | 1.91E-11 | 2.85E-10 | 2.85E-10 | 1.41E-10 | 7.30E-10 |
| 1958 | 256370.3 | 4084164 | 1.59E-11 | 2.30E-10 | 4.06E-09 | 4.06E-09 | 2.26E-09 | 1.06E-08 | 2.41E-12 | 3.50E-11 | 6.33E-10 | 6.33E-10 | 3.48E-10 | 1.65E-09 | 1.31E-12 | 1.89E-11 | 2.82E-10 | 2.82E-10 | 1.39E-10 | 7.23E-10 |
| 1957 | 256385.8 | 4084123 | 1.59E-11 | 2.30E-10 | 4.06E-09 | 4.06E-09 | 2.26E-09 | 1.06E-08 | 2.41E-12 | 3.50E-11 | 6.33E-10 | 6.33E-10 | 3.46E-10 | 1.65E-09 | 1.31E-12 | 1.89E-11 | 2.82E-10 | 2.82E-10 | 1.39E-10 | 7.23E-10 |
| 1958 | 256400.9 | 4084081 | 1.60E-11 | 2.31E-10 | 4.08E-09 | 4.08E-09 | 2.27E-09 | 1.07E-08 | 2.42E-12 | 3.52E-11 | 6.36E-10 | 6.36E-10 | 3.50E-10 | 1.66E-09 | 1.32E-12 | 1.90E-11 | 2.83E-10 | 2.83E-10 | 1.40E-10 | 7.27E-10 |
| 1959 | 256416.2 | 4084040 | 1.60E-11 | 2.32E-10 | 4.09E-09 | 4.09E-09 | 2.28E-09 | 1.07E-08 | 2.43E-12 | 3.53E-11 | 6.39E-10 | 6.39E-10 | 3.51E-10 | 1.67E-09 | 1.32E-12 | 1.91E-11 | 2.84E-10 | 2.84E-10 | 1.41E-10 | 7.29E-10 |
| 1960 | 256431.5 | 4083999 | 1.60E-11 | 2.32E-10 | 4.10E-09 | 4.10E-09 | 2.28E-09 | 1.07E-08 | 2.43E-12 | 3.53E-11 | 6.40E-10 | 6.40E-10 | 3.52E-10 | 1.67E-09 | 1.32E-12 | 1.91E-11 | 2.85E-10 | 2.85E-10 | 1.41E-10 | 7.30E-10 |
| 1961 | 256446.8 | 4083957 | 1.59E-11 | 2.30E-10 | 4.07E-09 | 4.07E-09 | 2.27E-09 | 1.07E-08 | 2.42E-12 | 3.51E-11 | 6.35E-10 | 6.35E-10 | 3.49E-10 | 1.66E-09 | 1.31E-12 | 1.90E-11 | 2.83E-10 | 2.83E-10 | 1.40E-10 | 7.26E-10 |
| 1962 | 256474.5 | 4083927 | 1.59E-11 | 2.10E-10 | 4.06E-09 | 4.06E-09 | 2.26E-09 | 1.06E-08 | 2.41E-12 | 3.50E-11 | 6.34E-10 | 6.34E-10 | 3.49E-10 | 1.65E-09 | 1.31E-12 | 1.90E-11 | 2.82E-10 | 2.82E-10 | 1.40E-10 | 7.24E-10 |
| 1963 | 256514.4 | 4083909 | 1.60E-11 | 2.31E-10 | 4.08E-09 | 4.08E-09 | 2.27E-09 | 1.07E-08 | 2.42E-12 | 3.52E-11 | 6.36E-10 | 6.36E-10 | 3.50E-10 | 1.66E-09 | 1.32E-12 | 1.90E-11 | 2.83E-10 | 2.83E-10 | 1.40E-10 | 7.27E-10 |
| 1964 | 256554.4 | 4083890 | 1.60E-11 | 2.31E-10 | 4.08E-09 | 4.08E-09 | 2.27E-09 | 1.07E-08 | 2.42E-12 | 3.52E-11 | 6.36E-10 | 6.36E-10 | 3.50E-10 | 1.66E-09 | 1.32E-12 | 1.90E-11 | 2.83E-10 | 2.83E-10 | 1.40E-10 | 7.27E-10 |
| 1965 | 256594.4 | 4083672 | 1.59E-11 | 2.30E-10 | 4.06E-09 | 4.06E-09 | 2.26E-09 | 1.06E-08 | 2.41E-12 | 3.50E-11 | 6.34E-10 | 6.34E-10 | 3.49E-10 | 1.65E-09 | 1.31E-12 | 1.90E-11 | 2.82E-10 | 2.82E-10 | 1.40E-10 | 7.24E-10 |
| 1968 | 256634.4 | 4083654 | 1.59E-11 | 2.29E-10 | 4.05E-09 | 4.05E-09 | 2.26E-09 | 1.06E-08 | 2.41E-12 | 3.49E-11 | 6.32E-10 | 6.32E-10 | 3.48E-10 | 1.65E-09 | 1.31E-12 | 1.89E-11 | 2.81E-10 | 2.81E-10 | 1.39E-10 | 7.22E-10 |
| 1967 | 256674.4 | 4083835 | 1.58E-11 | 2.29E-10 | 4.04E-09 | 4.04E-09 | 2.25E-09 | 1.06E-08 | 2.40E-12 | 3.49E-11 | 6.31E-10 | 6.31E-10 | 3.47E-10 | 1.65E-09 | 1.30E-12 | 1.89E-11 | 2.81E-10 | 2.81E-10 | 1.39E-10 | 7.21E-10 |
| 1968 | 256714.4 | 4083817 | 1.58E-11 | 2.29E-10 | 4.04E-09 | 4.04E-09 | 2.25E-09 | 1.06E-06 | 2.40E-12 | 3.48E-11 | 6.30E-10 | 6.30E-10 | 3.46E-10 | 1.64E-09 | 1.30E-12 | 1.88E-11 | 2.80E-10 | 2.80E-10 | 1.39E-10 | 7.20E-10 |
| 1969 | 256754.4 | 4083798 | 1.58E-11 | 2.28E-10 | 4.03E-09 | 4.03E-09 | 2.25E-09 | 1.05E-08 | 2.39E-12 | 3.48E-11 | 6.29E-10 | 6.29E-10 | 3.46E-10 | 1.64E-09 | 1.30E-12 | 1.88E-11 | 2.80E-10 | 2.80E-10 | 1.39E-10 | 7.18E-10 |
| 1970 | 256794.4 | 4083780 | 1.57E-11 | 2.27E-10 | 4.02E-09 | 4.02E-09 | 2.24E-09 | 1.05E-08 | 2.39E-12 | 3.46E-11 | 6.27E-10 | 6.27E-10 | 3.45E-10 | 1.64E-09 | 1.30E-12 | 1.87E-11 | 2.79E-10 | 2.79E-10 | 1.38E-10 | 7.18E-10 |
| 1971 | 256834.3 | 4083761 | 1.57E-11 | 2.27E-10 | 4.00E-09 | 4.00E-09 | 2.23E-09 | 1.05E-06 | 2.38E-12 | 3.45E-11 | 6.25E-10 | 6.25E-10 | 3.44E-10 | 1.63E-09 | 1.29E-12 | 1.87E-11 | 2.78E-10 | 2.78E-10 | 1.36E-10 | 7.14E-10 |
| 1972 | 256874.3 | 4083743 | 1.56E-11 | 2.26E-10 | 3.99E-09 | 3.99E-09

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1767 | 257135 | 4084539 | 4.52E-11 | 6.54E-10 | 1.15E-08 | 1.15E-08 | 6.44E-09 | 3.02E-08 | 8.86E-12 | 9.98E-11 | 1.80E-09 | 1.80E-09 | 9.91E-10 | 4.70E-09 | 3.73E-12 | 5.39E-11 | 8.02E-10 | 8.02E-10 | 3.97E-10 | 2.06E-09 |
| 1768 | 257174.6 | 4084520 | 4.57E-11 | 6.60E-10 | 1.17E-08 | 1.17E-08 | 6.50E-09 | 3.05E-08 | 6.93E-12 | 1.01E-10 | 1.82E-09 | 1.82E-09 | 1.00E-09 | 4.75E-09 | 3.76E-12 | 5.44E-11 | 8.10E-10 | 8.10E-10 | 4.01E-10 | 2.08E-09 |
| 1769 | 257214.2 | 4084502 | 4.63E-11 | 6.70E-10 | 1.18E-08 | 1.18E-08 | 6.59E-09 | 3.10E-08 | 7.03E-12 | 1.02E-10 | 1.85E-09 | 1.85E-09 | 1.02E-09 | 4.82E-09 | 3.82E-12 | 5.52E-11 | 8.22E-10 | 6.22E-10 | 4.07E-10 | 2.11E-09 |
| 1770 | 257253.8 | 4084484 | 4.71E-11 | 8.61E-10 | 1.20E-08 | 1.20E-08 | 6.70E-09 | 3.15E-08 | 7.15E-12 | 1.04E-10 | 1.88E-09 | 1.88E-09 | 1.03E-09 | 4.90E-09 | 3.88E-12 | 5.61E-11 | 8.35E-10 | 8.35E-10 | 4.13E-10 | 2.14E-09 |
| 1771 | 257793.5 | 4084465 | 4.78E-11 | 8.91E-10 | 1.22E-08 | 1.22E-08 | 6.61E-09 | 3.20E-08 | 7.25E-12 | 1.05E-10 | 1.91E-09 | 1.91E-09 | 1.05E-09 | 4.97E-09 | 3.94E-12 | 5.70E-11 | 8.48E-10 | 8.48E-10 | 4.20E-10 | 2.18E-09 |
| 1772 | 257333.1 | 4084447 | 4.83E-11 | 6.99E-10 | 1.23E-08 | 1.23E-08 | 6.88E-09 | 3.23E-08 | 7.33E-12 | 1.06E-10 | 1.93E-09 | 1.93E-09 | 1.06E-09 | 5.03E-09 | 3.98E-12 | 5.76E-11 | 8.57E-10 | 8.57E-10 | 4.24E-10 | 2.20E-09 |
| 1773 | 257372.7 | 4084429 | 4.86E-11 | 7.03E-10 | 1.24E-08 | 1.24E-08 | 6.92E-09 | 3.25E-08 | 7.38E-12 | 1.07E-10 | 1.94E-09 | 1.94E-09 | 1.07E-09 | 5.06E-09 | 4.01E-12 | 5.80E-11 | 8.63E-10 | 8.63E-10 | 4.27E-10 | 2.21E-09 |
| 1774 | 257412.3 | 4084410 | 4.88E-11 | 7.05E-10 | 1.25E-08 | 1.25E-08 | 6.94E-09 | 3.26E-08 | 7.40E-12 | 1.07E-10 | 1.94E-09 | 1.94E-09 | 1.07E-09 | 5.07E-09 | 4.02E-12 | 5.81E-11 | 8.65E-10 | 8.65E-10 | 4.26E-10 | 2.22E-09 |
| 1775 | 257451.9 | 4084392 | 4.89E-11 | 7.07E-10 | 1.25E-08 | 1.25E-08 | 6.96E-09 | 3.27E-08 | 7.42E-12 | 1.08E-10 | 1.95E-09 | 1.95E-09 | 1.07E-09 | 5.09E-09 | 4.03E-12 | 5.83E-11 | 8.67E-10 | 8.67E-10 | 4.29E-10 | 2.23E-09 |
| 1776 | 257491.5 | 4084374 | 4.91E-11 | 7.10E-10 | 1.25E-08 | 1.25E-08 | 6.99E-09 | 3.28E-08 | 7.45E-12 | 1.08E-10 | 1.96E-09 | 1.96E-09 | 1.08E-09 | 5.10E-09 | 4.04E-12 | 5.85E-11 | 8.71E-10 | 8.71E-10 | 4.31E-10 | 2.23E-09 |
| 1777 | 256957 | 4085000 | 1.14E-10 | 1.65E-09 | 2.92E-08 | 2.92E-08 | 1.63E-08 | 7.64E-08 | 1.73E-11 | 2.52E-10 | 4.56E-09 | 4.56E-09 | 2.50E-09 | 1.19E-08 | 9.42E-12 | 1.36E-10 | 2.03E-09 | 2.03E-09 | 1.00E-09 | 5.20E-09 |
| 1778 | 256958.6 | 4085044 | 1.27E-10 | 1.84E-09 | 3.25E-08 | 3.25E-08 | 1.81E-08 | 8.51E-08 | 1.93E-11 | 2.80E-10 | 5.07E-09 | 5.07E-09 | 2.79E-09 | 1.32E-08 | 1.05E-11 | 1.52E-10 | 2.26E-09 | 2.26E-09 | 1.12E-09 | 5.79E-09 |
| 1779 | 256960.3 | 4085089 | 1.38E-10 | 1.99E-09 | 3.52E-08 | 3.52E-08 | 1.96E-08 | 9.21E-08 | 2.09E-11 | 3.04E-10 | 5.50E-09 | 5.50E-09 | 3.02E-09 | 1.43E-08 | 1.14E-11 | 1.64E-10 | 2.45E-09 | 2.45E-09 | 1.21E-09 | 6.26E-09 |
| 1780 | 258961.9 | 4085133 | 1.46E-10 | 2.11E-09 | 3.73E-08 | 3.73E-08 | 2.08E-08 | 9.77E-08 | 2.22E-11 | 3.22E-10 | 5.83E-09 | 5.83E-09 | 3.20E-09 | 1.52E-08 | 1.20E-11 | 1.74E-10 | 2.59E-09 | 2.59E-09 | 1.26E-09 | 6.65E-09 |
| 1781 | 256963.6 | 4085178 | 1.54E-10 | 2.23E-09 | 3.93E-08 | 3.93E-08 | 2.19E-08 | 1.03E-07 | 2.33E-11 | 3.39E-10 | 6.14E-09 | 6.14E-09 | 3.37E-09 | 1.60E-08 | 1.27E-11 | 1.83E-10 | 2.73E-09 | 2.73E-09 | 1.35E-09 | 7.01E-09 |
| 1782 | 256863.9 | 4084960 | 6.80E-11 | 1.27E-09 | 2.25E-08 | 2.25E-08 | 1.25E-08 | 5.88E-08 | 1.34E-11 | 1.94E-10 | 3.51E-09 | 3.51E-09 | 1.93E-09 | 9.15E-09 | 7.25E-12 | 1.05E-10 | 1.56E-09 | 1.56E-09 | 7.73E-10 | 4.01E-09 |
| 1783 | 256879.4 | 4084918 | 7.96E-11 | 1.15E-09 | 2.03E-08 | 2.03E-08 | 1.13E-08 | 5.32E-08 | 1.21E-11 | 1.75E-10 | 3.18E-09 | 3.18E-09 | 1.75E-09 | 8.28E-09 | 6.58E-12 | 9.49E-11 | 1.41E-09 | 1.41E-09 | 6.99E-10 | 3.63E-09 |
| 1784 | 256894.9 | 4084877 | 7.23E-11 | 1.05E-09 | 1.85E-08 | 1.89E-08 | 1.03E-08 | 4.83E-08 | 1.10E-11 | 1.59E-10 | 2.88E-09 | 2.88E-09 | 1.58E-09 | 7.52E-09 | 5.96E-12 | 8.82E-11 | 1.28E-09 | 1.28E-09 | 6.35E-10 | 3.29E-09 |
| 1785 | 256910.3 | 4084835 | 6.62E-11 | 9.58E-10 | 1.69E-08 | 1.69E-08 | 9.43E-09 | 4.43E-08 | 1.01E-11 | 1.46E-10 | 2.64E-09 | 2.64E-09 | 1.45E-09 | 6.89E-09 | 5.46E-12 | 7.90E-11 | 1.18E-09 | 1.18E-09 | 5.82E-10 | 3.02E-09 |
| 1786 | 256925.8 | 4084793 | 8.12E-11 | 8.85E-10 | 1.56E-08 | 1.56E-08 | 8.71E-09 | 4.09E-08 | 9.28E-12 | 1.35E-10 | 2.44E-09 | 2.44E-09 | 1.54E-09 | 6.36E-09 | 5.04E-12 | 7.29E-11 | 1.09E-09 | 1.09E-09 | 5.37E-10 | 2.79E-09 |
| 1787 | 256941.3 | 4084751 | 5.65E-11 | 8.18E-10 | 1.44E-08 | 1.44E-08 | 8.05E-09 | 3.78E-08 | 8.58E-12 | 1.25E-10 | 2.25E-09 | 2.25E-09 | 1.24E-09 | 5.88E-09 | 4.66E-12 | 8.74E-11 | 1.00E-09 | 1.00E-09 | 4.96E-10 | 2.57E-09 |
| 1788 | 256956.7 | 4084710 | 5.23E-11 | 7.56E-10 | 1.34E-08 | 1.34E-08 | 7.44E-09 | 3.50E-08 | 7.93E-12 | 1.15E-10 | 2.08E-09 | 2.08E-09 | 1.15E-09 | 5.44E-09 | 4.31E-12 | 8.23E-11 | 9.27E-10 | 9.27E-10 | 4.59E-10 | 2.38E-09 |
| 1789 | 256972.2 | 4084668 | 4.85E-11 | 7.02E-10 | 1.24E-08 | 1.24E-08 | 6.91E-09 | 3.24E-08 | 7.36E-12 | 1.07E-10 | 1.93E-09 | 1.93E-09 | 1.06E-09 | 5.05E-09 | 4.00E-12 | 5.78E-11 | 8.61E-10 | 8.61E-10 | 4.26E-10 | 2.21E-09 |
| 1790 | 256987.7 | 4084626 | 4.54E-11 | 6.56E-10 | 1.16E-08 | 1.16E-08 | 6.46E-09 | 3.04E-08 | 6.89E-12 | 1.00E-10 | 1.61E-09 | 1.81E-09 | 9.95E-10 | 4.72E-09 | 3.74E-12 | 5.41E-11 | 8.05E-10 | 8.05E-10 | 3.99E-10 | 2.07E-09 |
| 1791 | 257003.1 | 4084584 | 4.27E-11 | 6.18E-10 | 1.09E-08 | 1.09E-08 | 6.08E-09 | 2.86E-08 | 6.48E-12 | 9.41E-11 | 1.70E-09 | 1.70E-09 | 9.37E-10 | 4.44E-09 | 3.52E-12 | 5.09E-11 | 7.58E-10 | 7.58E-10 | 3.75E-10 | 1.95E-09 |
| 1792 | 257018.6 | 4084542 | 4.03E-11 | 5.83E-10 | 1.03E-08 | 1.03E-08 | 5.74E-09 | 2.69E-08 | 6.11E-12 | 8.88E-11 | 1.61E-09 | 1.61E-09 | 8.83E-10 | 4.19E-09 | 3.32E-12 | 4.80E-11 | 7.15E-10 | 7.15E-10 | 3.54E-10 | 1.63E-09 |
| 1793 | 257034.1 | 4084501 | 3.80E-11 | 5.50E-10 | 9.71E-09 | 9.71E-09 | 5.41E-09 | 2.54E-08 | 5.77E-12 | 8.37E-11 | 1.52E-09 | 1.52E-09 | 8.33E-10 | 3.95E-09 | 3.13E-12 | 4.53E-11 | 6.74E-10 | 6.74E-10 | 3.34E-10 | 1.73E-09 |
| 1794 | 257062 | 4084470 | 3.71E-11 | 5.36E-10 | 9.46E-09 | 9.46E-09 | 5.28E-09 | 2.48E-08 | 5.62E-12 | 8.16E-11 | 1.48E-09 | 1.48E-09 | 8.12E-10 | 3.85E-09 | 3.05E-12 | 4.42E-11 | 6.57E-10 | 6.57E-10 | 3.25E-10 | 1.69E-09 |
| 1795 | 257102.5 | 4084452 | 3.74E-11 | 5.42E-10 | 9.56E-09 | 9.56E-09 | 5.33E-09 | 2.50E-08 | 5.68E-12 | 8.25E-11 | 1.49E-09 | 1.49E-09 | 6.21E-10 | 3.90E-09 | 3.09E-12 | 4.46E-11 | 6.64E-10 | 6.64E-10 | 3.29E-10 | 1.71E-09 |
| 1796 | 257142.9 | 4084433 | 3.81E-11 | 5.50E-10 | 9.72E-09 | 9.72E-09 | 5.42E-09 | 2.54E-08 | 5.76E-12 | 8.39E-11 | 1.52E-09 | 1.52E-09 | 8.34E-10 | 3.96E-09 | 3.14E-12 | 4.54E-11 | 6.75E-10 | 6.75E-10 | 3.34E-10 | 1.73E-09 |
| 1797 | 257183.3 | 4084414 | 3.88E-11 | 5.62E-10 | 9.92E-09 | 9.92E-09 | 5.53E-09 | 2.60E-08 | 5.89E-12 | 8.55E-11 | 1.55E-09 | 1.55E-09 | 6.51E-10 | 4.04E-09 | 3.20E-12 | 4.63E-11 | 6.89E-10 | 6.89E-10 | 3.41E-10 | 1.77E-09 |
| 1798 | 257223.7 | 4084396 | 3.95E-11 | 5.71E-10 | 1.01E-08 | 1.01E-08 | 5.62E-09 | 2.64E-08 | 5.99E-12 | 8.70E-11 | 1.57E-09 | 1.57E-09 | 8.66E-10 | 4.11E-09 | 3.25E-12 | 4.71E-11 | 7.01E-10 | 7.01E-10 | 3.47E-10 | 1.80E-09 |
| 1799 | 257264.2 | 4084377 | 3.99E-11 | 5.78E-10 | 1.02E-08 | 1.02E-08 | 5.69E-09 | 2.67E-08 | 6.06E-12 | 8.80E-11 | 1.59E-09 | 1.59E-09 | 8.76E-10 | 4.15E-09 | 3.29E-12 | 4.76E-11 | 7.09E-10 | 7.09E-10 | 3.51E-10 | 1.82E-09 |
| 1800 | 257304.8 | 4084358 | 4.01E-11 | 5.80E-10 | 1.02E-08 | 1.02E-08 | 5.71E-09 | 2.68E-08 | 6.09E-12 | 8.83E-11 | 1.60E-09 | 1.60E-09 | 8.79E-10 | 4.17E-09 | 3.31E-12 | 4.78E-11 | 7.11E-10 | 7.11E-10 | 3.52E-10 | 1.83E-09 |
| 1801 | 257345 | 4084340 | 4.00E-11 | 5.78E-10 | 1.02E-08 | 1.02E-08 | 5.69E-09 | 2.67E-08 | 6.07E-12 | 8.81E-11 | 1.59E-09 | 1.59E-09 | 8.76E-10 | 4.16E-09 | 3.29E-12 | 4.76E-11 | 7.09E-10 | 7.09E-10 | 3.51E-10 | 1.82E-09 |
| 1802 | 257385.5 | 4084321 | 3.97E-11 | 5.74E-10 | 1.01E-08 | 1.01E-08 | 5.65E-09 | 2.65E-08 | 6.02E-12 | 8.74E-11 | 1.58E-09 | 1.58E-09 | 8.70E-10 | 4.13E-09 | 3.27E-12 | 4.73E-11 | 7.04E-10 | 7.04E-10 | 3.48E-10 | 1.61E-09 |
| 1803 | 257425.9 | 4084302 | 3.94E-11 | 5.70E-10 | 1.01E-08 | 1.01E-08 | 5.61E-09 | 2.63E-08 | 5.98E-12 | 8.68E-11 | 1.57E-09 | 1.57E-09 | 8.63E-10 | 4.10E-09 | 3.25E-12 | 4.70E-11 | 6.99E-10 | 6.99E-10 | 3.46E-10 | 1.79E-09 |
| 1804 | 257466.3 | 4084284 | 3.93E-11 | 5.68E-10 | 1.00E-08 | 1.00E-08 | 5.60E-09 | 2.63E-08 | 5.96E-12 | 8.66E-11 | 1.57E-09 | 1.57E-09 | 8.62E-10 | 4.09E-09 | 3.24E-12 | 4.69E-11 | 6.97E-10 | 6.97E-10 | 3.45E-10 | 1.79E-09 |
| 1805 | 256857 | 4085003 | 9.75E-11 | 1.41E-09 | 2.49E-08 | 2.49E-08 | 1.39E-08 | 6.52E-08 | 1.48E-11 | 2.15E-10 | 3.89E-09 | 3.89E-09 | 2.14E-09 | 1.01E-08 | 8.03E-12 | 1.16E-10 | 1.73E-09 | 1.73E-09 | 8.56E-10 | 4.44E-09 |
| 1806 | 256858.7 | 4085048 | 1.07E-10 | 1.55E-09 | 2.73E-08 | 2.73E-08 | 1.52E-08 | 7.16E-08 | 1.62E-11 | 2.36E-10 | 4.27E-09 | 4.27E-09 | 2.35E-09 | 1.11E-08 | 8.82E-12 | 1.28E-10 | 1.90E-09 | 1.90E-09 | 9.40E-10 | 4.87E-09 |
| 1807 | 256860.3 | 4085092 | 1.14E-10 | 1.66E-09 | 2.92E-08 | 2.92E-08 | 1.63E-08 | 7.65E-08 | 1.74E-11 | 2.52E-10 | 4.56E-09 | 4.56E-09 | 2.51E-09 | 1.19E-08 | 9.43E-12 | 1.38E-10 | 2.03E-09 | 2.03E-09 | 1.01E-09 | 5.21E-09 |
| 1808 | 256862 | 4085137 | 1.20E-10 | 1.73E-09 | 3.06E-08 | 3.06E-08 | 1.71E-08 | 8.02E-08 | 1.62E-11 | 2.64E-10 | 4.78E-09 | 4.78E-09 | 2.83E-09 | 1.25E-08 | 9.88E-12 | 1.43E-10 | 2.13E-09 | 2.13E-09 | 1.05E-09 | 5.46E-09 |
| 1809 | 256883.8 | 4085182 | 1.25E-10 | 1.80E-09 | 3.18E-08 | 3.18E-08 | 1.76E-08 | 8.34E-08 | 1.89E-11 | 2.75E-10 | 4.97E-09 | 4.97E-09 | 2.72E-09 | 1.30E-08 | 1.03E-11 | 1.49E-10 | 2.21E-09 | 2.21E-09 | 1.09E-09 | 5.68E-09 |
| 1610 | 256664 | 4084968 | 6.94E-11 | 1.00E-09 | 1.77E-08 | 1.77E-08 | 9.88E-09 | 4.64E-08 | 1.05E-11 | 1.53E-10 | 2.77E-09 | 2.77E-09 | 1.52E-09 | 7.22E-09 | 5.72E-12 | 6.27E-11 | 1.23E-09 | 1.23E-09 | 6.09E-10 | 3.16E-09 |
| 1611 | 256679.4 | 4084926 | 6.36E-11 | 9.20E-10 | 1.62E-08 | 1.62E-08 | 9.06E-09 | 4.25E-08 | 9.65E-12 | 1.40E-10 | 2.54E-09 | 2.54E-09 | 1.39E-09 | 6.62E-09 | 5.24E-12 | 7.58E-11 | 1.13E-09 | 1.13E-09 | 5.59E-10 | 2.90E-09 |
| 1612 | 256694.6 | 4084884 | 5.83E-11 | 6.43E-10 | 1.49E-08 | 1.49E-08 | 6.29E-09 | 3.90E-08 | 8.84E-12 | 1.28E-10 | 2.32E-09 | 2.32E-09 | 1.28E-09 | 6.06E-09 | 4.80E-12 | 6.94E-11 | 1.03E-09 | 1.03E-09 | 5.12E-10 | 2.65E-09 |
| 1613 | 256710.2 | 4084843 | 5.38E-11 | 7.79E-10 | 1.37E-08 | 1.37E-08 | 7.67E-09 | 3.60E-08 | 8.17E-12 | 1.19E-10 | 2.15E-09 | 2.15E-09 | 1.18E-09 | 5.60E-09 | 4.44E-12 | 8.42E-11 | 9.55E-10 | 9.55E-10 | 4.73E-10 | 2.45E-09 |
| 1814 | 256725.6 | 4084801 | 5.03E-11 | 7.27E-10 | 1.28E-08 | 1.28E-08 | 7.16E-09 | 3.36E-08 | 7.63E-12 | 1.11E-10 | 2.01E-09 | 2.01E-09 | 1.10E-09 | 5.23E-09 | 4.14E-12 | 6.00E-11 | 8.92E-10 | 8.92E-10 | 4.42E-10 | 2.29E-09 |
| 1815 | 256741 | 4084760 | 4.73E-11 | 6.84E-10 | 1.21E-08 | 1.21E-08 | 6.73E-09 | 3.18E-08 | 7.18E-12 | 1.04E-10 | 1.89E-09 | 1.89E-09 | 1.04E-09 | 4.92E-09 | 3.90E-12 | 5.64E-11 | 8.39E-10 | 8.39E-10 | 4.15E-10 | 2.15E-09 |
| 1616 | 256756.4 | 4084716 | 4.44E-11 | 6.43E-10 | 1.13E-08 | 1.13E-08 | 6.33E-09 | 2.97E-08 | 6.74E-12 | 9.79E-11 | 1.77E-09 | 1.77E-09 | 9.74E-10 | 4.82E-09 | 3.66E-12 | 5.30E-11 | 7.88E-10 | 7.88E-10 | 3.90E-10 | 2.02E-09 |
| 1817 | 256771.6 | 4084677 | 4.15E-11 | 6.00E-10 | 1.06E-08 | 1.06E-08 | 5.91E-09 | 2.77E-08 | 6.30E-12 | 9.14E-11 | 1.65E-09 | 1.65E-09 | 9.10E-10 | 4.32E-09 | 3.42E-12 | 4.95E-11 | 7.36E-10 | 7.36E-10 | 3.64E-10 | 1.89E-09 |
| 1818 | 256767.2 | 4084635 | 3.86E-11 | 5.58E-10 | 9.85E-09 | 9.85E-09 | 5.49E-09 | 2.58E-08 | 5.85E-12 | 8.50E-11 | 1.54E-09 | 1.54E-09 | 8.45E-10 | 4.01E-09 | 3.18E-12 | 4.60E-11 | 6.84E-10 | 6.84E-10 | 3.39E-10 | 1.76E-09 |
| 1819 | 256802.6 | 4084593 | 3.58E-11 | 5.16E-10 | 9.15E-09 | 9.15E-09 | 5.10E-09 | 2.40E-08 | 5.44E-12 | 7.90E-11 | 1.43E-09 | 1.43E-09 | 7.86E-10 | 3.73E-09 | 2.95E-12 | 4.27E-11 | 6.36E-10 | 6.36E-10 | 3.15E-10 | 1.63E-09 |
| 1820 | 256818 | 4084552 | 3.36E-11 | 4.66E-10 | 8.58E-09 | 8.58E-09 | 4.78E-09 | 2.25E-08 | 5.10E-12 | 7.40E-11 | 1.34E-09 | 1.34E-09 | 7.36E-10 | 3.49E-09 | 2.77E-12 | 4.00E-11 | 5.96E-10 | 5.96E-10 | 2.95E-10 | 1.53E-09 |
| 1821 | 256833.4 | 4084510 | 3.18E-11 | 4.60E-10 | 8.12E-09 | 8.12E-09 | 4.53E-09 | 2.13E-08 | 4.83E-12 | 7.01E-11 | 1.27E-09 | 1.27E-09 | 6.97E-10 | 3.31E-09 | 2.62E-12 | 3.79E-11 | 5.64E-10 | 5.64E-10 | 2.79E-10 | 1.45E-09 |
| 1822 | 256848.8 | 4084469 | 3.04E-11 | 4.40E-10 | 7.77E-09 | 7.77E-09 | 4.33E-09 | 2.03E-08 | 4.82E-12 | 6.70E-11 | 1.21E-09 | 1.21E-09 | 6.87E-10 | 3.16E-09 | 2.51E-12 | 3.63E-11 | 5.40E-10 | 5.40E-10 | 2.67E-10 | 1.38E-09 |
| 1823 | 256664.2 | 4084427 | 2.92E-11 | 4.22E-10 | 7.46E-09 | 7.46E-09 | 4.16E-09 | 1.95E-08 | 4.43E-12 | 6.43E-11 | 1.16E-09 | 1.16E-09 | 6.40E-10 | 3.04E-09 | 2.41E-12 | 3.48E-11 | 5.18E-10 | 5.18E-10 | 2.56E-10 | 1.33E-09 |
| 1824 | 256879.6 | 4084386 | 2.61E-11 | 4.06E-10 | 7.17E-09 | 7.17E-09 | 4.00E-09 | 1.88E-08 | 4.26E-12 | 6.19E-11 | 1.12E-09 | 1.12E-09 | 6.16E-10 | 2.92E-09 | 2.31E-12 | 3.35E-11 | 4.98E-10 | 4.98E-10 | 2.47E-10 | 1.28E-09 |
| 1625 | 256915.1 | 4084335 | 2.72E-11 | 3.94E-10 | 6.95E-09 | 6.95E-09 | 3.87E-09 | 1.82E-08 | 4.13E-12 | 5.99E-11 | 1.08E-09 | 1.08E-09 | 5.96E-10 | 2.83E-09 | 2.24E-12 | 3.24E-11 | 4.83E-10 | 4.83E-10 | 2.39E-10 | 1.24E-09 |
| 1626 | 256955.3 | 4084316 | 2.78E-11 | 3.98E-10 | 7.04E-09 | 7.04E-09 | 3.92E-09 | 1.84E-08 | 4.18E-12 | 6.07E-11 | 1.10E-09 | 1.10E-09 | 6.04E-10 | 2.87E-09 | 2.27E-12 | 3.26E-11 | 4.89E-10 | 4.89E-10 | 2.42E-10 | 1.25E-09 |
| 1827 | 256995.8 | 4084298 | 2.80E-11 | 4.05E-10 | 7.15E-09 | 7.15E-09 | 3.99E-09 | 1.87E-08 | 4.25E-12 | 8.17E-11 | 1.12E-09 | 1.12E-09 | 6.14E-10 | 2.91E-09 | 2.31E-12 | 3.34E-11 | 4.97E-10 | 4.97E-10 | 2.46E-10 | 1.28E-09 |
| 1826 | 257035.8 | 4084279 | 2.85E-11 | 4.13E-10 | 7.29E-09 | 7.29E-09 | 4.06E-09 | 1.91E-08 | 4.33E-12 | 8.29E-11 | 1.14E-09 | 1.14E-09 | 6.25E-10 | 2.97E-09 | 2.35E-12 | 3.40E-11 | 5.06E-10 | 5.06E-10 | 2.51E-10 | 1.30E-09 |
| 1829 | 257076.1 | 4084260 | 2.91E-11 | 4.20E-10 | 7.42E-09 | 7.42E-09 | 4.14E-09 | 1.94E-08 | 4.41E-12 | 6.40E-11 | 1.16E-09 | 1.16E-09 | 6.37E-10 | 3.02E-09 | 2.40E-12 | 3.46E-11 | 5.18E-10 | 5.16E-10 | 2.55E-10 | 1.32E-09 |
| 1830 | 257116.3 | 4084242 | 2.94E-11 | 4.25E-10 | 7.51E-09 | 7.51E-09 | 4.19E-09 | 1.97E-08 | 4.46E-12 | 6.48E-11 | 1.17E-09 | 1.17E-09 | 6.45E-10 | 3.06E-09 | 2.42E-12 | 3.51E-11 | 5.22E-10 | 5.22E-10 | 2.58E-10 | 1.54E-09 |
| 1831 | 257156.6 | 4084223 | 2.95E-11 | 4.27E-10 | 7.54E-09 | 7.54E-09 | 4.20E-09 | 1.97E-08 | 4.48E-12 | 6.50E-11 | 1.18E-09 | 1.18E-09 | 6.47E-10 | 3.07E-09 | 2.43E-12 | 3.52E-11 | 5.24E-10 | 5.24E-10 | 2.59E-10 | 1.34E-09 |
| 1832 | 257196.8 | 4084205 | 2.94E-11 | 4.25E-10 | 7.50E-09 | 7.50E-09 | 4.18E-09 | 1.96E-08 | 4.46E-12 | 6.47E-11 | 1.17E-09 | 1.17E-09 | 6.44E-10 | 3.06E-09 | 2.42E-12 | 3.50E-11 | 5.21E-10 | 5.21E-10 | 2.58E-10 | 1.34E-09 |
| 1833 | 257237.1 | 4084186 | 2.90E-11 | 4.20E-10 | 7.41E-09 | 7.41E-09 | 4.13E-09 | 1.94E-08 | 4.40E-12 | 6.39E-11 | 1.16E-09 | 1.16E-09 | 6.36E-10 | 3.02E-09 | 2.39E-12 | 3.46E-11 | 5.15E-10 | 5.15E-10 | 2.55E-10 | 1.32E-09 |
| 1834 | 257277.3 | 4084167 | 2.85E-11 | 4.13E-10 | 7.29E-09 | 7.29E-09 | 4.06E-09 | 1.91E-08 | 4.33E-12 | 6.29E-11 | 1.14E-09 | 1.14E-09 | 6.25E-10 | 2.97E-09 | 2.35E-12 | 3.40E-11 | 5.06E-10 | 5.08E-10 | 2.51E-10 | 1.30E-09 |
| 1835 | 257317.5 | 4084149 | 2.81E-11 | 4.06E-10 | 7.17E-09 | 7.17E-09 | 3.99E-09 | 1.88E-08 | 4.26E-12 | 6.18E-11 | 1.12E-09 | 1.12E-09 | 6.15E-10 | 2.92E-09 | 2.31E-12 | 3.54E-11 | 4.98E-10 | 4.98E-10 | 2.46E-10 | 1.28E-09 |
| 1836 | 257357.8 | 4084130 | 2.77E-11 | 4.01E-10 | 7.08E-09 | 7.08E-09 | 3.95E-09 | 1.85E-08 | 4.21E-12 | 6.11E-11 | 1.11E-09 | 1.11E-09 | 6.08E-10 | 2.88E-09 | 2.28E-12 | 3.30E-11 | 4.92E-10 | 4.92E-10 | 2.43E-10 | 1.26E-09 |
| 1837 | 257398 | 4084112 | 2.76E-11 | 3.99E-10 | 7.04E-09 | 7.04E-09 | 3.93E-09 | 1.84E-08 | 4.19E-12 | 6.08E-11 | 1.10E-09 | 1.10E-09 | 6.05E-10 | 2.87E-09 | 2.27E-12 | 3.29E-11 | 4.89E-10 | 4.89E-10 | 2.42E-10 | 1.26E-09 |
| 1838 | 257438.3 | 4084093 | 2.77E-11 | 4.00E-10 | 7.06E-09 | 7.06E-09 | 3.94E-09 | 1.85E-08 | 4.20E-12 | 6.09E-11 | 1.10E-09 | 1.10E-09 | 6.06E-10 | 2.88E-09 | 2.28E-12 | 3.30E-11 | 4.91E-10 | 4.91E-10 | 2.43E-10 | 1.26E-09 |
| 1839 | 257478.5 | 4084074 | 2.79E-11 | 4.04E-10 | 7.14E-09 | 7.14E-09 | 3.98E-09 | 1.87E-08 | 4.24E-12 | 6.16E-11 | 1.11E-09 | 1.11E-09 | 6.13E-10 | 2.91E-09 | 2.30E-12 | 3.33E-11 | 4.96E-10 | 4.96E-10 | 2.45E-10 | 1.27E-09 |
| 1840 | 256657.2 | 4085011 | 7.55E-11 | 1.09E-09 | 1.93E-08 | 1.93E-08 | 1.07E-08 | 5.05E-08 | 1.15E-11 | 1.66E-10 | 3.01E-09 | 3.01E-09 | 1.65E-09 | 7.85E-09 | 6.22E-12 | 9.00E-11 | 1.34E-09 | 1.34E-09 | 6.63E-10 | 3.44E-09 |
| 1841 | 256658.8 | 4085055 | 6.11E-11 | 1.17E-09 | 2.07E-08 | 2.07E-08 | 1.16E-08 | 5.43E-08 | 1.23E-11 | 1.79E-10 | 3.24E-09 | 3.24E-09 | 1.78E-09 | 8.44E-09 | 6.69E-12 | 9.67E-11 | 1.44E-09 | 1.44E-09 | 7.13E-10 | 3.70E-09 |
| 1842 | 256660.5 | 4085100 | 8.52E-11 | 1.23E-09 | 2.18E-08 | 2.18E-08 | 1.21E-08 | 5.69E-08 | 1.29E-11 | 1.86E-10 | 3.40E-09 | 3.40E-09 | 1.67E-09 | 8.86E-09 | 7.02E-12 | 1.02E-10 | 1.51E-09 | 1.51E-09 | 7.48E-10 | 3.88E-09 |
| 1843 | 256662.1 | 4085144 | 8.79E-11 | 1.27E-09 | 2.24E-08 | 2.24E-08 | 1.25E-08 | 5.88E-08 | 1.33E-11 | 1.94E-10 | 3.51E-09 | 3.51E-09 | 1.93E-09 | 9.14E-09 | 7.24E-12 | 1.05E-10 | 1.56E-09 | 1.56E-09 | 7.72E-10 | 4.00E-09 |
| 1844 | 256663 | 4085167 | 8.90E-11 | 1.29E-09 | 2.27E-08 | 2.27E-08 | 1.27E-08 | 5.95E-08 | 1.35E-11 | 1.96E-10 | 3.55E-09 | 3.55E-09 | 1.95E-09 | 9.28E-09 | 7.34E-12 | 1.06E-10 | 1.56E-09 | 1.58E-09 | 7.82E-10 | 4.05E-09 |
| 1845 | 256464.2 | 4084975 | 5.75E-11 | 8.32E-10 | 1.47E-08 | 1.47E-08 | 8.19E-09 | 3.85E-08 | 8.73E-12 | 1.27E-10 | 2.29E-09 | 2.29E-09 | 1.26E-09 | 5.99E-09 | 4.74E-12 | 6.86E-11 | 1.02E-09 | 1.02E-09 | 5.05E-10 | 2.62E-09 |
| 1846 | 256479.5 | 4084934 | 5.33E-11 | 7.71E-10 | 1.36E-08 | 1.36E-08 | 7.59E-09 | 3.56E-08 | 8.09E-12 | 1.17E-10 | 2.13E-09 | 2.13E-09 | 1.17E-09 | 5.55E-09 | 4.39E-12 | 6.35E-11 | 9.46E-10 | 9.46E-10 | 4.68E-10 | 2.43E-09 |
| 1847 | 256494.9 | 4084892 | 4.92E-11 | 7.12E-10 | 1.26E-08 | 1.26E-08 | 7.01E-09 | 3.29E-08 | 7.47E-12 | 1.08E-10 | 1.96E-09 | 1.96E-09 | 1.08E-09 | 5.12E-09 | 4.06E-12 | 5.87E-11 | 8.73E-10 | 8.73E-10 | 4.32E-10 | 2.24E-09 |
| 1848 | 256510.2 | 4084851 | 4.56E-11 | 6.60E-10 | 1.17E-08 | 1.17E-08 | 6.50E-09 | 3.05E-08 | 6.92E-12 | 1.01E-10 | 1.82E-09 | 1.82E-09 | 1.00E-09 | 4.75E-09 | 3.76E-12 | 5.44E-11 | 8.10E-10 | 8.10E-10 | 4.01E-10 | 2.08E-09 |
| 1849 | 256525.6 | 4084809 | 4.27E-11 | 6.18E-10 | 1.09E-08 | 1.09E-08 | 6.09E-09 | 2.86E-08 | 6.49E-12 | 9.42E-11 | 1.70E-09 | 1.70E-09 | 9.37E-10 | 4.45E-09 | 3.52E-12 | 5.10E-11 | 7.58E-10 | 7.58E-10 | 3.75E-10 | 1.95E-09 |
| 1850 | 256540.9 | 4084768 | 4.05E-11 | 5.85E-10 | 1.03E-08 | 1.03E-08 | 5.78E-09 | 2.71E-08 | 6.14E-12 | 8.92E-11 | 1.61E-09 | 1.61E-09 | 8.87E-10 | 4.21E-09 | 3.54E-12 | 4.82E-11 | 7.18E-10 | 7.18E-10 | 3.55E-10 | 1.84E-09 |
| 1851 | 256556.3 | 4084726 | 3.86E-11 | 5.58E-10 | 9.89E-09 | 9.85E-09 | 5.49E-09 | 2.58E-08 | 5.85E-12 | 8.50E-11 | 1.54E-09 | 1.54E-09 | 8.45E-10 | 4.01E-09 | 3.18E-12 | 4.60E-11 | 6.84E-10 | 6.84E-10 | 3.39E-10 | 1.76E-09 |
| 1852 | 256571.6 | 4084685 | 3.68E-11 | 5.32E-10 | 9.39E-09 | 9.39E-09 | 5.23E-09 | 2.46E-08 | 5.58E-12 | 8.10E-11 | 1.47E-09 | 1.47E-09 | 8.06E-10 | 3.82E-09 | 3.03E-12 | 4.38E-11 | 6.52E-10 | 6.52E-10 | 3.23E-10 | 1.67E-09 |
| 1853 | 256587 | 4084643 | 3.48E-11 | 5.03E-10 | 8.89E-09 | 8.89E-09 | 4.96E-09 | 2.33E-08 | 5.28E-12 | 7.87E-11 | 1.39E-09 | 1.39E-09 | 7.63E-10 | 3.62E-09 | 2.87E-12 | 4.15E-11 | 6.17E-10 | 6.17E-10 | 3.06E-10 | 1.58E-09 |
| 1854 | 256602.3 | 4084602 | 3.28E-11 | 4.72E-10 | 8.33E-09 | 8.33E-09 | 4.85E-09 

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1649 | 257508.3 | 4085024 | 2.10E-09 | 3.04E-08 | 5.37E-07 | 5.37E-07 | 2.99E-07 | 1.41E-06 | 3.19E-10 | 4.83E-09 | 6.39E-08 | 8.39E-08 | 4.81E-08 | 2.19E-07 | 1.73E-10 | 2.31E-09 | 3.73E-08 | 3.73E-08 | 1.85E-08 | 9.58E-08 |
| 1650 | 257509.9 | 4085068 | 3.00E-09 | 4.34E-08 | 7.66E-07 | 7.66E-07 | 4.37E-07 | 2.01E-06 | 4.55E-10 | 8.81E-09 | 1.20E-07 | 1.20E-07 | 6.57E-08 | 3.12E-07 | 2.47E-10 | 3.57E-09 | 5.32E-08 | 5.32E-08 | 2.63E-08 | 1.37E-07 |
| 1651 | 257511.5 | 4085113 | 3.54E-09 | 5.12E-08 | 9.05E-07 | 9.05E-07 | 5.05E-07 | 2.37E-06 | 5.38E-10 | 7.81E-09 | 1.41E-07 | 1.41E-07 | 7.77E-08 | 3.69E-07 | 2.92E-10 | 4.33E-09 | 6.29E-08 | 6.29E-08 | 3.11E-08 | 1.61E-07 |
| 1652 | 257513.2 | 4085157 | 3.64E-09 | 5.26E-08 | 9.29E-07 | 9.29E-07 | 5.18E-07 | 2.43E-06 | 5.52E-10 | 8.02E-09 | 1.45E-07 | 1.45E-07 | 7.98E-08 | 3.79E-07 | 3.00E-10 | 4.34E-09 | 6.46E-08 | 6.46E-08 | 3.20E-08 | 1.66E-07 |
| 1653 | 257487.4 | 4084940 | 5.42E-10 | 7.84E-09 | 1.38E-07 | 1.38E-07 | 7.72E-08 | 3.62E-07 | 8.23E-11 | 1.19E-09 | 2.16E-08 | 2.16E-08 | 1.19E-08 | 5.64E-08 | 4.47E-11 | 6.46E-10 | 9.62E-09 | 9.62E-09 | 4.76E-09 | 2.47E-08 |
| 1654 | 257516 | 4084896 | 4.34E-10 | 6.28E-09 | 1.11E-07 | 1.11E-07 | 6.18E-08 | 2.90E-07 | 6.59E-11 | 9.57E-10 | 1.73E-08 | 1.73E-08 | 9.52E-09 | 4.52E-08 | 3.58E-11 | 5.18E-10 | 7.71E-09 | 7.71E-09 | 3.81E-09 | 1.98E-08 |
| 1655 | 257481.6 | 4084980 | 6.13E-10 | 1.18E-08 | 2.08E-07 | 2.08E-07 | 1.16E-07 | 5.44E-07 | 1.23E-10 | 1.79E-09 | 3.24E-08 | 3.24E-08 | 1.78E-08 | 8.46E-08 | 6.70E-11 | 9.70E-10 | 1.44E-08 | 1.44E-08 | 7.14E-09 | 3.70E-08 |
| 1656 | 257483.3 | 4085025 | 1.38E-09 | 2.00E-08 | 3.53E-07 | 3.53E-07 | 1.97E-07 | 9.24E-07 | 2.10E-10 | 3.04E-09 | 5.31E-08 | 5.31E-08 | 3.03E-08 | 1.44E-07 | 1.14E-10 | 1.65E-09 | 2.45E-08 | 2.45E-08 | 1.21E-08 | 6.29E-08 |
| 1657 | 257484.9 | 4085069 | 2.01E-09 | 2.91E-08 | 5.14E-07 | 5.14E-07 | 2.87E-07 | 1.35E-06 | 3.06E-10 | 4.44E-09 | 8.03E-08 | 8.03E-08 | 4.42E-08 | 2.10E-07 | 1.66E-10 | 2.40E-09 | 3.57E-08 | 3.57E-08 | 1.77E-08 | 9.17E-08 |
| 1658 | 257486.6 | 4085114 | 2.47E-09 | 3.57E-08 | 6.31E-07 | 6.31E-07 | 3.52E-07 | 1.65E-06 | 3.75E-10 | 5.45E-09 | 9.86E-08 | 9.86E-08 | 5.42E-08 | 2.57E-07 | 2.04E-10 | 2.95E-09 | 4.38E-08 | 4.38E-08 | 2.17E-08 | 1.13E-07 |
| 1659 | 257488.2 | 4085158 | 2.65E-09 | 3.64E-08 | 6.77E-07 | 6.77E-07 | 3.78E-07 | 1.77E-06 | 4.03E-10 | 5.84E-09 | 1.06E-07 | 1.06E-07 | 5.81E-08 | 2.76E-07 | 2.19E-10 | 3.16E-09 | 4.71E-08 | 4.71E-08 | 2.33E-08 | 1.21E-07 |
| 1660 | 257462.4 | 4084941 | 4.60E-10 | 8.85E-09 | 1.17E-07 | 1.17E-07 | 6.55E-08 | 3.07E-07 | 6.98E-11 | 1.01E-09 | 1.83E-08 | 1.83E-08 | 1.01E-08 | 4.78E-08 | 3.79E-11 | 5.48E-10 | 8.18E-09 | 8.16E-09 | 4.04E-09 | 2.09E-08 |
| 1681 | 257475.7 | 4084905 | 3.67E-10 | 5.31E-09 | 9.38E-08 | 9.38E-08 | 5.23E-08 | 2.46E-07 | 5.58E-11 | 8.09E-10 | 1.46E-08 | 1.46E-08 | 8.05E-09 | 3.82E-08 | 3.03E-11 | 4.38E-10 | 8.52E-09 | 6.52E-09 | 3.23E-09 | 1.67E-08 |
| 1662 | 257499.6 | 4084879 | 3.40E-10 | 4.92E-09 | 8.69E-08 | 6.69E-08 | 4.85E-08 | 2.28E-07 | 5.17E-11 | 7.50E-10 | 1.36E-08 | 1.36E-08 | 7.46E-09 | 3.54E-08 | 2.81E-11 | 4.06E-10 | 8.04E-09 | 6.04E-09 | 2.99E-09 | 1.55E-08 |
| 1663 | 257456.6 | 4084981 | 6.45E-10 | 9.33E-09 | 1.65E-07 | 1.65E-07 | 9.19E-08 | 4.32E-07 | 9.79E-11 | 1.42E-09 | 2.57E-08 | 2.37E-08 | 1.41E-08 | 6.71E-08 | 5.32E-11 | 7.69E-10 | 1.14E-08 | 1.14E-08 | 5.67E-09 | 2.94E-08 |
| 1664 | 257458.3 | 4085026 | 1.00E-09 | 1.45E-08 | 2.56E-07 | 2.56E-07 | 1.43E-07 | 6.69E-07 | 1.52E-10 | 2.21E-09 | 3.99E-08 | 3.99E-08 | 2.19E-08 | 1.04E-07 | 8.25E-11 | 1.19E-09 | 1.78E-08 | 1.78E-08 | 8.79E-09 | 4.56E-08 |
| 1665 | 257459.1 | 4085048 | 1.32E-09 | 1.77E-08 | 3.12E-07 | 3.12E-07 | 1.74E-07 | 8.17E-07 | 1.88E-10 | 2.69E-09 | 4.67E-08 | 4.67E-08 | 2.68E-08 | 1.27E-07 | 1.01E-10 | 1.46E-09 | 2.17E-08 | 2.17E-08 | 1.07E-08 | 5.57E-08 |
| 1666 | 257460.8 | 4085092 | 1.65E-09 | 2.38E-08 | 4.21E-07 | 4.21E-07 | 2.35E-07 | 1.10E-06 | 2.50E-10 | 3.63E-09 | 6.57E-08 | 6.57E-08 | 3.81E-08 | 1.71E-07 | 1.36E-10 | 1.97E-09 | 2.92E-08 | 2.92E-08 | 1.45E-08 | 7.31E-08 |
| 1687 | 257462.4 | 4085137 | 1.94E-09 | 2.81E-08 | 4.96E-07 | 4.96E-07 | 2.77E-07 | 1.30E-06 | 2.95E-10 | 4.28E-09 | 7.75E-08 | 7.75E-08 | 4.26E-08 | 2.02E-07 | 1.60E-10 | 2.32E-09 | 3.45E-08 | 3.45E-08 | 1.71E-08 | 8.85E-08 |
| 1666 | 257412.5 | 4084943 | 3.50E-10 | 5.06E-09 | 8.93E-08 | 6.93E-08 | 4.98E-08 | 2.34E-07 | 5.31E-11 | 7.71E-10 | 1.39E-08 | 1.39E-08 | 7.67E-09 | 3.64E-08 | 2.88E-11 | 4.17E-10 | 8.20E-09 | 6.30E-09 | 3.07E-09 | 1.59E-08 |
| 1669 | 257425.7 | 4084907 | 2.91E-10 | 4.21E-09 | 7.43E-08 | 7.43E-08 | 4.14E-08 | 1.95E-07 | 4.42E-11 | 6.41E-10 | 1.16E-08 | 1.16E-08 | 6.38E-09 | 3.03E-08 | 2.40E-11 | 3.47E-10 | 5.16E-09 | 5.16E-09 | 2.56E-09 | 1.33E-08 |
| 1670 | 257439 | 4084871 | 2.47E-10 | 3.37E-09 | 8.30E-08 | 6.30E-08 | 3.51E-08 | 1.65E-07 | 3.74E-11 | 5.43E-10 | 9.83E-09 | 9.83E-09 | 5.40E-09 | 2.56E-08 | 2.03E-11 | 2.94E-10 | 4.37E-09 | 4.37E-09 | 2.17E-09 | 1.12E-08 |
| 1671 | 257462.9 | 4084845 | 2.32E-10 | 3.36E-09 | 5.93E-08 | 5.93E-08 | 3.31E-08 | 1.55E-07 | 3.33E-11 | 5.12E-10 | 9.27E-09 | 9.27E-09 | 5.09E-09 | 2.42E-08 | 1.92E-11 | 2.77E-10 | 4.12E-09 | 4.12E-09 | 2.04E-09 | 1.06E-08 |
| 1672 | 257497.6 | 4084829 | 2.41E-10 | 3.49E-09 | 6.18E-08 | 8.16E-08 | 3.43E-08 | 1.61E-07 | 3.66E-11 | 5.31E-10 | 9.61E-09 | 9.61E-09 | 5.28E-09 | 2.51E-08 | 1.99E-11 | 2.87E-10 | 4.28E-09 | 4.28E-09 | 2.12E-09 | 1.10E-08 |
| 1673 | 257406.7 | 4084983 | 4.54E-10 | 6.37E-09 | 1.18E-07 | 1.16E-07 | 8.47E-08 | 3.04E-07 | 8.09E-11 | 1.00E-09 | 1.81E-08 | 1.81E-08 | 9.96E-09 | 4.73E-08 | 3.74E-11 | 5.42E-10 | 8.06E-09 | 8.06E-09 | 3.99E-09 | 2.07E-08 |
| 1674 | 257408.3 | 4085027 | 6.38E-10 | 9.08E-09 | 1.60E-07 | 1.60E-07 | 8.94E-08 | 4.20E-07 | 9.33E-11 | 1.38E-09 | 2.50E-08 | 2.50E-08 | 1.38E-08 | 6.53E-08 | 5.17E-11 | 7.48E-10 | 1.11E-08 | 1.11E-08 | 5.51E-09 | 2.86E-08 |
| 1675 | 257410 | 4085072 | 6.54E-10 | 1.24E-08 | 2.16E-07 | 2.16E-07 | 1.22E-07 | 5.71E-07 | 1.30E-10 | 1.88E-09 | 3.41E-08 | 3.41E-08 | 1.87E-08 | 8.89E-08 | 7.04E-11 | 1.02E-09 | 1.32E-08 | 1.32E-08 | 7.50E-09 | 3.89E-08 |
| 1676 | 257411.6 | 4085117 | 1.09E-09 | 1.58E-08 | 2.78E-07 | 2.78E-07 | 1.35E-07 | 7.29E-07 | 1.65E-10 | 2.40E-09 | 4.35E-08 | 4.35E-08 | 2.39E-08 | 1.13E-07 | 8.98E-11 | 1.30E-09 | 1.93E-08 | 1.93E-08 | 9.57E-09 | 4.96E-08 |
| 1677 | 257413.3 | 4085181 | 1.26E-09 | 1.83E-08 | 3.23E-07 | 3.23E-07 | 1.80E-07 | 8.45E-07 | 1.92E-10 | 2.78E-09 | 5.04E-08 | 5.04E-08 | 2.77E-08 | 1.31E-07 | 1.04E-10 | 1.31E-09 | 2.24E-08 | 2.24E-08 | 1.11E-08 | 5.75E-08 |
| 1678 | 257363.4 | 4084942 | 2.76E-10 | 4.00E-09 | 7.06E-08 | 7.06E-08 | 3.94E-08 | 1.85E-07 | 4.19E-11 | 6.09E-10 | 1.10E-08 | 1.10E-08 | 8.06E-09 | 2.88E-08 | 2.38E-11 | 3.30E-10 | 4.90E-09 | 4.90E-09 | 2.43E-09 | 1.28E-08 |
| 1679 | 257378.6 | 4084901 | 2.31E-10 | 3.34E-09 | 5.90E-08 | 5.90E-08 | 3.29E-08 | 1.55E-07 | 3.51E-11 | 5.09E-10 | 9.22E-09 | 9.22E-09 | 5.07E-09 | 2.40E-08 | 1.91E-11 | 2.76E-10 | 4.10E-09 | 4.10E-09 | 2.03E-09 | 1.05E-08 |
| 1680 | 257393.7 | 4084860 | 1.97E-10 | 2.85E-09 | 5.03E-08 | 5.03E-08 | 2.80E-08 | 1.32E-07 | 2.99E-11 | 4.34E-10 | 7.85E-09 | 7.85E-09 | 4.31E-09 | 2.05E-08 | 1.62E-11 | 2.35E-10 | 3.49E-09 | 3.49E-09 | 1.73E-09 | 8.96E-09 |
| 1661 | 257428.7 | 4084810 | 1.73E-10 | 2.50E-09 | 4.41E-08 | 4.41E-08 | 2.46E-08 | 1.15E-07 | 2.62E-11 | 3.80E-10 | 6.88E-09 | 6.88E-09 | 3.78E-09 | 1.80E-08 | 1.42E-11 | 2.06E-10 | 3.06E-09 | 3.06E-09 | 1.52E-09 | 7.86E-09 |
| 1682 | 257468.3 | 4084792 | 1.78E-10 | 2.57E-09 | 4.54E-08 | 4.54E-08 | 2.33E-08 | 1.19E-07 | 2.70E-11 | 3.92E-10 | 7.10E-09 | 7.10E-09 | 3.90E-09 | 1.85E-08 | 1.47E-11 | 2.12E-10 | 3.16E-09 | 3.16E-09 | 1.56E-09 | 8.10E-09 |
| 1683 | 257507.9 | 4084774 | 1.84E-10 | 2.66E-09 | 4.70E-08 | 4.70E-08 | 2.62E-08 | 1.23E-07 | 2.79E-11 | 4.05E-10 | 7.33E-09 | 7.33E-09 | 4.03E-09 | 1.91E-08 | 1.32E-11 | 2.19E-10 | 3.26E-09 | 3.26E-09 | 1.62E-09 | 8.38E-09 |
| 1684 | 257356.7 | 4084985 | 3.47E-10 | 5.03E-09 | 8.87E-08 | 8.87E-08 | 4.95E-08 | 2.32E-07 | 5.27E-11 | 7.66E-10 | 1.39E-08 | 1.39E-08 | 7.62E-09 | 3.61E-08 | 2.86E-11 | 4.14E-10 | 6.17E-09 | 6.17E-09 | 3.05E-09 | 1.58E-08 |
| 1685 | 257356.3 | 4085029 | 4.50E-10 | 8.51E-09 | 1.15E-07 | 1.15E-07 | 8.41E-08 | 3.01E-07 | 6.83E-11 | 9.92E-10 | 1.80E-08 | 1.80E-08 | 9.87E-09 | 4.68E-08 | 3.71E-11 | 5.37E-10 | 7.99E-09 | 7.99E-09 | 3.95E-09 | 2.05E-08 |
| 1686 | 257360 | 4085074 | 5.76E-10 | 6.33E-09 | 1.47E-07 | 1.47E-07 | 8.20E-08 | 3.85E-07 | 8.74E-11 | 1.27E-09 | 2.30E-08 | 2.30E-08 | 1.26E-08 | 5.99E-08 | 4.75E-11 | 6.87E-10 | 1.02E-08 | 1.02E-08 | 5.06E-09 | 2.62E-08 |
| 1687 | 257361.7 | 4085118 | 7.20E-10 | 1.04E-08 | 1.84E-07 | 1.84E-07 | 1.03E-07 | 4.81E-07 | 1.09E-10 | 1.59E-09 | 2.87E-08 | 2.87E-08 | 1.58E-08 | 7.49E-08 | 5.94E-11 | 8.58E-10 | 1.28E-08 | 1.28E-08 | 6.32E-09 | 3.28E-08 |
| 1688 | 257363.3 | 4085163 | 8.31E-10 | 1.23E-08 | 2.17E-07 | 2.17E-07 | 1.21E-07 | 5.89E-07 | 1.29E-10 | 1.88E-09 | 3.39E-08 | 3.39E-08 | 1.87E-08 | 8.86E-08 | 7.02E-11 | 1.01E-09 | 1.51E-08 | 1.51E-08 | 7.48E-09 | 3.88E-08 |
| 1689 | 257313.3 | 4084944 | 2.30E-10 | 3.32E-09 | 5.86E-08 | 5.86E-08 | 3.27E-08 | 1.54E-07 | 3.48E-11 | 5.06E-10 | 9.16E-09 | 9.16E-09 | 5.03E-09 | 2.39E-08 | 1.89E-11 | 2.74E-10 | 4.07E-09 | 4.07E-09 | 2.02E-09 | 1.05E-08 |
| 1690 | 257328 | 4084905 | 1.98E-10 | 2.84E-09 | 5.02E-08 | 5.02E-08 | 2.80E-08 | 1.31E-07 | 2.98E-11 | 4.33E-10 | 7.83E-09 | 7.83E-09 | 4.31E-09 | 2.04E-08 | 1.62E-11 | 2.34E-10 | 3.49E-09 | 3.49E-09 | 1.73E-09 | 8.95E-09 |
| 1691 | 257342.7 | 4084885 | 1.71E-10 | 2.47E-09 | 4.36E-08 | 4.36E-08 | 2.43E-08 | 1.14E-07 | 2.59E-11 | 3.76E-10 | 6.80E-09 | 6.80E-09 | 3.74E-09 | 1.77E-08 | 1.41E-11 | 2.03E-10 | 3.03E-09 | 3.03E-09 | 1.50E-09 | 7.77E-09 |
| 1692 | 257357.5 | 4084825 | 1.50E-10 | 2.17E-09 | 3.83E-08 | 3.83E-08 | 2.14E-08 | 1.00E-07 | 2.28E-11 | 3.31E-10 | 5.98E-09 | 5.98E-09 | 3.29E-09 | 1.56E-08 | 1.24E-11 | 1.79E-10 | 2.66E-09 | 2.66E-09 | 1.32E-09 | 6.83E-09 |
| 1693 | 257391.4 | 4084778 | 1.35E-10 | 1.95E-09 | 3.44E-08 | 3.44E-08 | 1.92E-08 | 9.00E-08 | 2.04E-11 | 2.96E-10 | 5.37E-09 | 5.37E-09 | 2.95E-09 | 1.40E-08 | 1.11E-11 | 1.60E-10 | 2.39E-09 | 2.39E-09 | 1.18E-09 | 8.13E-09 |
| 1694 | 257429.9 | 4084759 | 1.38E-10 | 1.99E-09 | 3.52E-08 | 3.52E-08 | 1.96E-08 | 9.21E-08 | 2.09E-11 | 3.03E-10 | 5.49E-09 | 5.49E-09 | 3.02E-09 | 1.43E-08 | 1.14E-11 | 1.64E-10 | 2.44E-09 | 2.44E-09 | 1.31E-09 | 6.37E-09 |
| 1695 | 257468.3 | 4084741 | 1.41E-10 | 2.04E-09 | 3.59E-08 | 3.59E-08 | 2.00E-08 | 9.41E-08 | 2.14E-11 | 3.10E-10 | 5.61E-09 | 5.61E-09 | 3.09E-09 | 1.46E-08 | 1.18E-11 | 1.68E-10 | 2.50E-09 | 2.50E-09 | 1.34E-09 | 6.41E-09 |
| 1696 | 257507 | 4084723 | 1.44E-10 | 2.09E-09 | 3.69E-08 | 3.69E-08 | 2.06E-08 | 9.66E-08 | 2.19E-11 | 3.18E-10 | 5.76E-09 | 5.76E-09 | 3.17E-09 | 1.50E-08 | 1.19E-11 | 1.72E-10 | 2.56E-09 | 2.56E-09 | 1.27E-09 | 6.58E-09 |
| 1697 | 257306.7 | 4084987 | 2.80E-10 | 4.05E-09 | 7.14E-08 | 7.14E-08 | 3.98E-08 | 1.87E-07 | 4.25E-11 | 6.16E-10 | 1.12E-08 | 1.12E-08 | 6.13E-09 | 2.91E-08 | 2.31E-11 | 3.34E-10 | 4.96E-09 | 4.96E-09 | 2.46E-09 | 1.27E-08 |
| 1698 | 257307.6 | 4085009 | 3.13E-10 | 4.33E-09 | 7.95E-08 | 7.99E-08 | 4.46E-08 | 2.09E-07 | 4.75E-11 | 6.90E-10 | 1.25E-08 | 1.25E-08 | 6.86E-09 | 3.26E-08 | 2.58E-11 | 3.73E-10 | 5.35E-09 | 5.55E-09 | 2.75E-09 | 1.43E-08 |
| 1699 | 257309.2 | 4085053 | 3.85E-10 | 5.57E-09 | 9.83E-08 | 9.83E-08 | 5.48E-08 | 2.57E-07 | 5.84E-11 | 8.48E-10 | 1.53E-08 | 1.53E-08 | 8.44E-09 | 4.00E-08 | 3.17E-11 | 4.39E-10 | 6.83E-09 | 6.83E-09 | 3.38E-09 | 1.75E-08 |
| 1700 | 257310.9 | 4085098 | 4.68E-10 | 6.76E-09 | 1.19E-07 | 1.19E-07 | 6.66E-08 | 3.13E-07 | 7.10E-11 | 1.03E-09 | 1.86E-08 | 1.86E-08 | 1.03E-08 | 4.86E-08 | 3.85E-11 | 5.57E-10 | 8.30E-09 | 6.30E-09 | 4.11E-09 | 2.13E-08 |
| 1701 | 257312.5 | 4085143 | 5.60E-10 | 8.09E-09 | 1.43E-07 | 1.43E-07 | 7.97E-08 | 3.74E-07 | 8.49E-11 | 1.23E-09 | 2.23E-08 | 2.23E-08 | 1.23E-08 | 5.92E-08 | 4.61E-11 | 6.67E-10 | 9.93E-09 | 9.93E-09 | 4.91E-09 | 2.55E-08 |
| 1702 | 257283.2 | 4084947 | 1.96E-10 | 2.83E-09 | 5.00E-08 | 5.00E-08 | 2.79E-08 | 1.31E-07 | 2.97E-11 | 4.31E-10 | 7.81E-09 | 7.81E-09 | 4.29E-09 | 2.04E-08 | 1.81E-11 | 2.33E-10 | 3.47E-09 | 3.47E-09 | 1.72E-09 | 8.92E-09 |
| 1703 | 257277.6 | 4084908 | 1.70E-10 | 2.46E-09 | 4.34E-08 | 4.34E-08 | 2.42E-08 | 1.14E-07 | 2.58E-11 | 3.74E-10 | 6.76E-09 | 6.78E-09 | 3.73E-09 | 1.77E-08 | 1.40E-11 | 2.03E-10 | 3.01E-09 | 3.01E-09 | 1.49E-09 | 7.74E-09 |
| 1704 | 257292.1 | 4084869 | 1.49E-10 | 2.16E-09 | 3.81E-08 | 3.81E-08 | 2.13E-08 | 9.99E-08 | 2.27E-11 | 3.29E-10 | 5.96E-09 | 5.96E-09 | 3.37E-09 | 1.35E-08 | 1.23E-11 | 1.78E-10 | 2.85E-09 | 2.65E-09 | 1.31E-09 | 6.80E-09 |
| 1705 | 257306.6 | 4084829 | 1.33E-10 | 1.92E-09 | 3.40E-08 | 3.40E-08 | 1.89E-08 | 8.89E-08 | 2.02E-11 | 2.93E-10 | 5.30E-09 | 5.30E-09 | 2.92E-09 | 1.38E-08 | 1.10E-11 | 1.59E-10 | 2.36E-09 | 2.36E-09 | 1.17E-09 | 6.06E-09 |
| 1706 | 257321 | 4084790 | 1.20E-10 | 1.73E-09 | 3.05E-08 | 3.05E-08 | 1.70E-08 | 7.99E-08 | 1.81E-11 | 2.63E-10 | 4.77E-09 | 4.77E-09 | 2.62E-09 | 1.24E-08 | 9.65E-12 | 1.42E-10 | 2.12E-09 | 2.12E-09 | 1.05E-09 | 5.44E-09 |
| 1707 | 257354.4 | 4084743 | 1.09E-10 | 1.57E-09 | 2.78E-08 | 2.78E-08 | 1.55E-08 | 7.27E-08 | 1.65E-11 | 2.40E-10 | 4.34E-09 | 4.34E-09 | 2.38E-09 | 1.13E-08 | 8.96E-12 | 1.30E-10 | 1.93E-09 | 1.93E-09 | 9.55E-10 | 4.95E-09 |
| 1708 | 257392.2 | 4084725 | 1.11E-10 | 1.60E-09 | 2.83E-08 | 2.83E-08 | 1.58E-08 | 7.40E-08 | 1.66E-11 | 2.44E-10 | 4.42E-09 | 4.42E-09 | 2.43E-09 | 1.15E-08 | 9.13E-12 | 1.32E-10 | 1.96E-09 | 1.96E-09 | 9.73E-10 | 5.04E-09 |
| 1709 | 257430 | 4084708 | 1.13E-10 | 1.63E-09 | 2.87E-08 | 2.87E-08 | 1.60E-08 | 7.53E-08 | 1.71E-11 | 2.48E-10 | 4.49E-09 | 4.49E-09 | 2.47E-09 | 1.17E-08 | 9.36E-12 | 1.34E-10 | 2.00E-09 | 2.00E-09 | 9.89E-10 | 5.13E-09 |
| 1710 | 257467.8 | 4084690 | 1.14E-10 | 1.66E-09 | 2.92E-08 | 2.92E-08 | 1.63E-08 | 7.66E-08 | 1.74E-11 | 2.52E-10 | 4.57E-09 | 4.57E-09 | 2.51E-09 | 1.19E-08 | 9.44E-12 | 1.36E-10 | 2.03E-09 | 2.03E-09 | 1.01E-09 | 5.21E-09 |
| 1711 | 257505.6 | 4084673 | 1.17E-10 | 1.69E-09 | 2.99E-08 | 2.99E-08 | 1.67E-08 | 7.83E-08 | 1.78E-11 | 2.58E-10 | 4.67E-09 | 4.67E-09 | 2.57E-09 | 1.22E-08 | 9.65E-12 | 1.40E-10 | 2.08E-09 | 2.08E-09 | 1.03E-09 | 5.33E-09 |
| 1712 | 257256.8 | 4084988 | 2.33E-10 | 3.37E-09 | 5.96E-08 | 5.96E-08 | 3.32E-08 | 1.56E-07 | 3.54E-11 | 5.14E-10 | 9.30E-09 | 9.30E-09 | 5.11E-09 | 2.43E-08 | 1.92E-11 | 2.76E-10 | 4.14E-09 | 4.14E-09 | 2.05E-09 | 1.06E-08 |
| 1713 | 257258.4 | 4085033 | 2.82E-10 | 4.07E-09 | 7.19E-08 | 7.19E-08 | 4.01E-08 | 1.88E-07 | 4.28E-11 | 6.21E-10 | 1.12E-08 | 1.12E-08 | 6.18E-09 | 2.93E-08 | 2.32E-11 | 3.36E-10 | 5.00E-09 | 5.00E-09 | 2.47E-09 | 1.28E-08 |
| 1714 | 257260.1 | 4085078 | 3.33E-10 | 4.81E-09 | 8.49E-08 | 8.49E-08 | 4.74E-08 | 2.22E-07 | 5.05E-11 | 7.33E-10 | 1.33E-08 | 1.33E-08 | 7.29E-09 | 3.46E-08 | 2.74E-11 | 3.97E-10 | 5.90E-09 | 5.90E-09 | 2.92E-09 | 1.51E-08 |
| 1715 | 257261.7 | 4085122 | 3.89E-10 | 5.62E-09 | 9.93E-08 | 9.93E-08 | 5.53E-08 | 2.60E-07 | 5.90E-11 | 8.56E-10 | 1.35E-08 | 1.35E-08 | 8.52E-09 | 4.04E-08 | 3.20E-11 | 4.63E-10 | 8.90E-09 | 6.90E-09 | 3.41E-09 | 1.77E-08 |
| 1716 | 257763.4 | 4085167 | 4.51E-10 | 6.53E-09 | 1.15E-07 | 1.15E-07 | 6.43E-08 | 3.02E-07 | 6.85E-11 | 9.95E-10 | 1.80E-08 | 1.80E-08 | 9.90E-09 | 4.70E-08 | 3.72E-11 | 5.38E-10 | 8.01E-09 | 8.01E-09 | 3.96E-09 | 2.06E-08 |
| 1717 | 257163.6 | 4084949 | 1.50E-10 | 2.17E-09 | 3.83E-08 | 3.83E-08 | 2.14E-08 | 1.00E-07 | 2.28E-11 | 3.31E-10 | 5.98E-09 | 5.98E-09 | 3.29E-09 | 1.56E-08 | 1.34E-11 | 1.79E-10 | 2.66E-09 | 2.66E-09 | 1.32E-09 | 6.83E-09 |
| 1718 | 257178.7 | 4084909 | 1.32E-10 | 1.91E-09 | 3.36E-08 | 3.36E-08 | 1.88E-08 | 8.81E-08 | 2.00E-11 | 2.90E-10 | 5.35E-09 | 5.25E-09 | 2.89E-09 | 1.37E-08 | 1.09E-11 | 1.57E-10 | 2.34E-09 | 2.34E-09 | 1.16E-09 | 6.00E-09 |
| 1719 | 257193.9 | 4084868 | 1.17E-10 | 1.69E-09 | 2.98E-08 | 2.98E-08 | 1.66E-08 | 7.80E-08 | 1.77E-11 | 2.57E-10 | 4.65E-09 | 4.65E-09 | 2.56E-09 | 1.21E-08 | 9.61E-12 | 1.39E-10 | 2.07E-09 | 2.07E-09 | 1.02E-09 | 5.31E-09 |
| 1720 | 257209 | 4084827 | 1.05E-10 | 1.52E-09 | 2.68E-08 | 2.68E-08 | 1.49E-08 | 7.00E-08 | 1.59E-11 | 2.31E-10 | 4.18E-09 | 4.18E-09 | 2.30E-09 | 1.09E-08 | 8.63E-12 | 1.25E-10 | 1.86E-09 | 1.86E-09 | 9.20E-10 | 4.77E-09 |
| 1721 | 257224.2 | 4084786 | 9.51E-11 | 1.38E-09 | 2.43E-08 | 2.43E-08 | 1.35E-08 | 6.36E-08 | 1.44E-11 | 2.09E-10 | 3.79E-09 | 3.79E-09 | 2.08E-09 | 9.89E-09 | 7.84E-12 | 1.13E-10 | 1.69E-09 | 1.69E-09 | 8.35E-10 | 4.33E-09 |
| 1772 | 257739.3 | 4084745 | 8.69E-11 | 1.26E-09 | 2.32E-08 | 2.22E-08 | 1.34E-08 | 5.81E-08 | 1.32E-11 | 1.91E-10 | 3.46E-09 | 3.46E-09 | 1.90E-09 | 9.04E-09 | 7.16E-12 | 1.04E-10 | 1.54E-09 | 1.54E-09 | 7.63E-10 | 3.96E-09 |
| 1773 | 257254.3 | 4084704 | 7.94E-11 | 1.15E-09 | 2.03E-08 | 2.03E-08 | 1.13E-08 | 5.31E-08 | 1.20E-11 | 1.75E-10 | 3.17E-09 | 3.17E-09 | 1.74E-09 | 8.26E-09 | 6.54E-12 | 9.47E-11 | 1.41E-09 | 1.41E-09 | 6.97E-10 | 3.62E-09 |
| 1724 | 257281.9 | 4084674 | 7.64E-11 | 1.10E-09 | 1.95E-08 | 1.95E-08 | 1.09E-08 | 5.11E-08 | 1.18E-11 | 1.68E-10 | 3.04E-09 | 3.04E-09 | 1.67E-09 | 7.94E-09 | 6.29E-12 | 9.10E-11 | 1.35E-09 | 1.35E-09 | 6.71E-10 | 3.48E-09 |
| 1775 | 257321.5 | 4084656 | 7.74E-11 | 1.12E-09 | 1.98E-08 | 1.98E-08 | 1.10E-08 | 5.17E-08 | 1.17E-11 | 1.71E-10 | 3.09E-09 | 3.09E-09 | 1.70E-09 | 6.05E-09 | 6.38E-12 | 9.23E-11 | 1.37E-09 | 1.37E-09 | 6.80E-10 | 3.52E-09 |
| 1728 | 257361.1 | 4084638 | 7.84E-11 | 1.13E-09 | 2.00E-08 | 2.00E-08 | 1.12E-08 | 5.24E-08 | 1.19E-11 | 1.73E-10 | 3.13E-09 | 3.13E-09 | 1.72E-09 | 8.18E-09 | 6.45E-12 | 9.35E-11 | 1.39E-09 | 1.39E-09 | 6.89E-10 | 3.57E-09 |
| 1727 | 257400.7 | 4084619 | 7.94E-11 | 1.15E-09 | 2.03E-08 | 2.03E-08 | 1.13E-08 | 5.31E-08 | 1.20E-11 | 1.75E-10 | 3.17E-09 | 3.17E-09 | 1.74E-09 | 8.26E-09 | 6.54E-12 | 9.47E-11 | 1.41E-09 | 1.41E-09 | 6.97E-10 | 3.62E-09 |
| 1728 | 257440.3 | 4084601 | 8.05E-11 | 1.18E-09 | 2.05E-08 | 2.05E-08 | 1.15E-08 | 5.38E-08 | 1.22E-11 | 1.77E-10 | 3.21E-09 | 3.21E-09 | 1.76E-09 | 6.37E-09 | 6.83E-12 | 9.39E-11 | 1.43E-09 | 1.43E-09 | 7.07E-10 | 3.66E-09 |
| 1729 | 257479.9 | 4084583 | 8.19E-11 | 1.19E-09 | 2.09E-08 | 2.09E-08 | 1.17E-08 | 5.48E-08 | 1.24E-11 | 1.81E-10 | 3.27E-09 | 3.27E-09 | 1.80E-09 | 8.32E-09 | 6.75E-12 | 9.77E-11 | 1.45E-09 | 1.45E-09 | 7.20E-10 | 3.73E-09 |
| 1730 | 257156.8 | 4084992 | 1.74E-10 | 2.51E-09 | 4.44E-08 | 4.44E-08 | 2.48E-08 | 1.16E-07 | 2.64E-11 | 3.83E-10 | 6.93E-09 | 8.93E-09 | 3.61E-09 | 1.81E-08 | 1.43E-11 | 2.07E-10 | 3.09E-09 | 3.09E-09 | 1.53E-09 | 7.92E-09 |
| 1731 | 257156.5 | 4085037 | 2.02E-10 | 2.92E-09 | 5.16E-08 | 5.16E-08 | 2.88E-08 | 1.35E-07 | 3.07E-11 | 4.45E-10 | 8.06E-09 | 8.06E-09 | 4.43E-09 | 2.10E-08 | 1.67E-11 | 2.41E-10 | 3.59E-09 | 3.59E-09 | 1.77E-09 | 9.20E-09 |
| 1732 | 257160.1 | 4085081 | 2.29E-10 | 3.31E-09 | 5.84E-08 | 5.84E-08 | 3.36E-08 | 1.53E-07 | 3.47E-11 | 5.04E-10 | 9.12E-09 | 9.12E-09 | 5.01E-09 | 2.38E-08 | 1.88E-11 | 2.73E-10 | 4.06E-09 | 4.06E-09 | 2.01E-09 | 1.04E-08 |
| 1733 | 257161.8 | 4085126 | 2.54E-10 | 3.68E-09 | 8.49E-08 | 6.49E-08 | 3.62E-08 | 1.70E-07 | 3.86E-11 | 5.60E-10 | 1.01E-08 | 1.01E-08 | 5.57E-09 | 2.64E-08 | 2.09E-11 | 3.03E-10 | 4.51E-09 | 4.31E-09 | 2.23E-09 | 1.16E-08 |
| 1734 | 257162.8 | 4085148 | 2.68E-10 | 3.87E-09 | 8.84E-08 | 6.84E-08 | 3.81E-08 | 1.79E-07 | 4.06E-11 | 5.90E-10 | 1.07E-08 | 1.07E-08 | 5.87E-09 | 2.78E-08 | 2.31E-11 | 3.19E-10 | 4.75E-09 | 4.75E-09 | 2.35E-09 | 1.22E-08 |
| 1735 | 257063.4 | 4084954 | 1.22E-10 | 1.76E-09 | 3.11E-08 | 3.11E-08 | 1.73E-08 | 8.14E-08 | 1.85E-11 | 2.68E-10 | 4.85E-09 | 4.85E-09 | 2.67E-09 | 1.27E-08 | 1.00E-11 | 1.45E-10 | 2.16E-09 | 2.16E-09 | 1.07E-09 | 5.54E-09 |
| 1736 | 257078.2 | 4084914 | 1.05E-10 | 1.57E-09 | 2.78E-08 | 2.78E-08 | 1.55E-08 | 7.28E-08 | 1

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1531 | 258726.3 | 4083582 | 5.03E-11 | 7.27E-10 | 1.28E-08 | 1.26E-08 | 7.16E-09 | 3.36E-08 | 7.63E-12 | 1.11E-10 | 2.00E-09 | 2.00E-09 | 1.10E-09 | 5.23E-09 | 4.14E-12 | 5.99E-11 | 8.92E-10 | 8.92E-10 | 4.41E-10 | 2.29E-09 |
| 1532 | 258748.9 | 4083591 | 5.26E-11 | 7.60E-10 | 1.34E-08 | 1.34E-08 | 7.48E-09 | 3.51E-08 | 7.98E-12 | 1.16E-10 | 2.10E-09 | 2.10E-09 | 1.15E-09 | 5.47E-09 | 4.53E-12 | 6.27E-11 | 9.33E-10 | 9.33E-10 | 4.62E-10 | 2.59E-09 |
| 1533 | 258771.5 | 4083599 | 5.49E-11 | 7.95E-10 | 1.40E-08 | 1.40E-08 | 7.82E-09 | 3.67E-08 | 8.34E-12 | 1.21E-10 | 2.19E-09 | 2.19E-09 | 1.20E-09 | 5.72E-09 | 4.53E-12 | 6.55E-11 | 9.75E-10 | 9.75E-10 | 4.83E-10 | 2.50E-09 |
| 1534 | 258794.1 | 4083607 | 5.74E-11 | 8.31E-10 | 1.47E-08 | 1.47E-08 | 8.18E-09 | 3.84E-08 | 6.72E-12 | 1.27E-10 | 2.29E-09 | 2.29E-09 | 1.26E-09 | 5.97E-09 | 4.73E-12 | 6.85E-11 | 1.02E-09 | 1.02E-09 | 5.04E-10 | 2.82E-09 |
| 1535 | 258816.7 | 4083616 | 6.00E-11 | 8.68E-10 | 1.53E-08 | 1.53E-08 | 8.54E-09 | 4.01E-08 | 9.11E-12 | 1.52E-10 | 2.39E-09 | 2.39E-09 | 1.32E-09 | 6.24E-09 | 4.95E-12 | 7.15E-11 | 1.06E-09 | 1.06E-09 | 5.27E-10 | 2.73E-09 |
| 1536 | 258839.3 | 4083624 | 6.26E-11 | 9.06E-10 | 1.60E-08 | 1.60E-08 | 8.92E-09 | 4.19E-08 | 9.51E-12 | 1.38E-10 | 2.50E-09 | 2.50E-09 | 1.37E-09 | 6.52E-09 | 5.16E-12 | 7.47E-11 | 1.11E-09 | 1.11E-09 | 5.50E-10 | 2.85E-09 |
| 1537 | 258861.8 | 4083632 | 6.53E-11 | 9.45E-10 | 1.67E-08 | 1.67E-08 | 9.30E-09 | 4.37E-08 | 9.92E-12 | 1.44E-10 | 2.61E-09 | 2.61E-09 | 1.43E-09 | 6.80E-09 | 5.39E-12 | 7.79E-11 | 1.16E-09 | 1.16E-09 | 5.74E-10 | 2.98E-09 |
| 1538 | 258884.4 | 4083641 | 6.61E-11 | 9.83E-10 | 1.74E-08 | 1.74E-08 | 9.70E-09 | 4.56E-08 | 1.03E-11 | 1.50E-10 | 2.72E-09 | 2.72E-09 | 1.49E-09 | 7.09E-09 | 3.82E-12 | 8.12E-11 | 1.21E-09 | 1.21E-09 | 5.98E-10 | 3.10E-09 |
| 1539 | 258907 | 4083649 | 7.10E-11 | 1.03E-09 | 1.81E-08 | 1.81E-08 | 1.01E-08 | 4.74E-08 | 1.08E-11 | 1.58E-10 | 2.83E-09 | 2.83E-09 | 1.56E-09 | 7.38E-09 | 3.85E-12 | 6.46E-11 | 1.26E-09 | 1.26E-09 | 8.23E-10 | 3.23E-09 |
| 1540 | 258929.6 | 4083658 | 7.59E-11 | 1.07E-09 | 1.89E-08 | 1.89E-08 | 1.05E-08 | 4.94E-08 | 1.12E-11 | 1.63E-10 | 2.95E-09 | 2.95E-09 | 1.62E-09 | 7.68E-09 | 6.09E-12 | 6.81E-11 | 1.31E-09 | 1.51E-09 | 8.49E-10 | 3.36E-09 |
| 1541 | 258952.2 | 4083666 | 7.68E-11 | 1.11E-09 | 1.96E-08 | 1.96E-08 | 1.09E-08 | 5.14E-08 | 1.17E-11 | 1.69E-10 | 3.06E-09 | 3.06E-09 | 1.68E-09 | 7.99E-09 | 6.53E-12 | 9.16E-11 | 1.38E-09 | 1.36E-09 | 8.75E-10 | 3.50E-09 |
| 1542 | 238974.8 | 4083674 | 7.98E-11 | 1.13E-09 | 2.04E-08 | 2.04E-08 | 1.14E-08 | 5.34E-08 | 1.21E-11 | 1.76E-10 | 3.18E-09 | 3.18E-09 | 1.75E-09 | 8.30E-09 | 6.56E-12 | 9.51E-11 | 1.42E-09 | 1.42E-09 | 7.01E-10 | 3.63E-09 |
| 1543 | 238997.4 | 4083683 | 8.26E-11 | 1.20E-09 | 2.12E-08 | 2.12E-08 | 1.18E-08 | 5.54E-08 | 1.26E-11 | 1.82E-10 | 3.30E-09 | 3.30E-09 | 1.82E-09 | 8.62E-09 | 6.63E-12 | 9.87E-11 | 1.47E-09 | 1.47E-09 | 7.27E-10 | 3.77E-09 |
| 1544 | 259020 | 4083691 | 6.59E-11 | 1.24E-09 | 2.19E-08 | 2.19E-08 | 1.22E-08 | 5.74E-08 | 1.30E-11 | 1.89E-10 | 3.42E-09 | 3.42E-09 | 1.88E-09 | 8.93E-09 | 7.08E-12 | 1.02E-10 | 1.53E-09 | 1.52E-09 | 7.54E-10 | 3.91E-09 |
| 1545 | 259042.6 | 4083699 | 6.89E-11 | 1.29E-09 | 2.27E-08 | 2.27E-08 | 1.27E-08 | 5.94E-08 | 1.33E-11 | 1.96E-10 | 3.55E-09 | 3.53E-09 | 1.95E-09 | 9.25E-09 | 7.33E-12 | 1.06E-10 | 1.58E-09 | 1.58E-09 | 7.81E-10 | 4.05E-09 |
| 1546 | 259065.2 | 4083708 | 9.19E-11 | 1.33E-09 | 2.53E-08 | 2.53E-08 | 1.51E-08 | 6.13E-08 | 1.39E-11 | 2.03E-10 | 3.67E-09 | 3.67E-09 | 2.02E-09 | 9.56E-09 | 7.58E-12 | 1.10E-10 | 1.63E-09 | 1.63E-09 | 8.07E-10 | 4.19E-09 |
| 1547 | 239087.8 | 4083716 | 9.49E-11 | 1.37E-09 | 2.42E-08 | 2.42E-08 | 1.33E-08 | 6.33E-08 | 1.44E-11 | 2.09E-10 | 3.78E-09 | 3.78E-09 | 2.08E-09 | 9.87E-09 | 7.82E-12 | 1.13E-10 | 1.88E-09 | 1.68E-09 | 8.34E-10 | 4.32E-09 |
| 1548 | 239110.3 | 4083724 | 9.79E-11 | 1.42E-09 | 2.50E-08 | 2.50E-08 | 1.39E-08 | 6.54E-08 | 1.49E-11 | 2.16E-10 | 3.90E-09 | 3.90E-09 | 2.15E-09 | 1.02E-08 | 8.07E-12 | 1.17E-10 | 1.74E-09 | 1.74E-09 | 8.60E-10 | 4.46E-09 |
| 1549 | 259132.9 | 4083733 | 1.01E-10 | 1.46E-09 | 2.37E-08 | 2.57E-08 | 1.43E-08 | 6.74E-08 | 1.33E-11 | 2.22E-10 | 4.02E-09 | 4.02E-09 | 2.21E-09 | 1.05E-08 | 8.31E-12 | 1.20E-10 | 1.79E-09 | 1.79E-09 | 8.85E-10 | 4.59E-09 |
| 1550 | 239155.5 | 4083741 | 1.04E-10 | 1.50E-09 | 2.64E-08 | 2.64E-08 | 1.47E-08 | 6.92E-08 | 1.57E-11 | 2.28E-10 | 4.13E-09 | 4.13E-09 | 2.27E-09 | 1.08E-08 | 6.53E-12 | 1.23E-10 | 1.84E-09 | 1.84E-09 | 9.09E-10 | 4.72E-09 |
| 1531 | 259178.1 | 4083750 | 1.06E-10 | 1.54E-09 | 2.71E-08 | 2.71E-08 | 1.51E-08 | 7.10E-08 | 1.61E-11 | 2.34E-10 | 4.24E-09 | 4.24E-09 | 2.33E-09 | 1.10E-08 | 6.73E-12 | 1.27E-10 | 1.88E-09 | 1.88E-09 | 9.33E-10 | 4.84E-09 |
| 1332 | 259200.7 | 4083758 | 1.09E-10 | 1.37E-09 | 2.78E-08 | 2.76E-08 | 1.53E-08 | 7.27E-08 | 1.83E-11 | 2.40E-10 | 4.34E-09 | 4.34E-09 | 2.38E-09 | 1.13E-08 | 8.96E-12 | 1.30E-10 | 1.93E-09 | 1.93E-09 | 9.53E-10 | 4.95E-09 |
| 1353 | 259223.5 | 4083766 | 1.11E-10 | 1.61E-09 | 2.84E-08 | 2.84E-08 | 1.58E-08 | 7.43E-08 | 1.69E-11 | 2.45E-10 | 4.43E-09 | 4.43E-09 | 2.44E-09 | 1.16E-08 | 9.16E-12 | 1.32E-10 | 1.97E-09 | 1.97E-09 | 9.76E-10 | 3.06E-09 |
| 1354 | 259245.9 | 4083775 | 1.13E-10 | 1.64E-09 | 2.89E-08 | 2.89E-08 | 1.61E-08 | 7.58E-08 | 1.72E-11 | 2.50E-10 | 4.52E-09 | 4.52E-09 | 2.48E-09 | 1.16E-08 | 9.34E-12 | 1.35E-10 | 2.01E-09 | 2.01E-09 | 9.95E-10 | 3.16E-09 |
| 1333 | 259268.3 | 4083783 | 1.15E-10 | 1.67E-09 | 2.94E-08 | 2.94E-08 | 1.64E-08 | 7.71E-08 | 1.73E-11 | 2.54E-10 | 4.60E-09 | 4.60E-09 | 2.33E-09 | 1.20E-08 | 9.50E-12 | 1.57E-10 | 2.05E-09 | 2.05E-09 | 1.01E-09 | 3.23E-09 |
| 1536 | 259291.1 | 4083791 | 1.17E-10 | 1.69E-09 | 2.99E-08 | 2.99E-08 | 1.67E-08 | 7.83E-08 | 1.78E-11 | 2.58E-10 | 4.67E-09 | 4.67E-09 | 2.57E-09 | 1.22E-08 | 9.63E-12 | 1.40E-10 | 2.08E-09 | 2.02E-09 | 1.03E-09 | 3.33E-09 |
| 1537 | 259313.7 | 4083800 | 1.19E-10 | 1.72E-09 | 3.03E-08 | 3.03E-08 | 1.69E-08 | 7.93E-08 | 1.80E-11 | 2.61E-10 | 4.73E-09 | 4.73E-09 | 2.60E-09 | 1.23E-08 | 9.76E-12 | 1.41E-10 | 2.10E-09 | 2.10E-09 | 1.04E-09 | 3.40E-09 |
| 1558 | 259336.3 | 4083808 | 1.20E-10 | 1.74E-09 | 3.06E-08 | 3.06E-08 | 1.71E-08 | 8.02E-08 | 1.82E-11 | 2.64E-10 | 4.78E-09 | 4.78E-09 | 2.63E-09 | 1.23E-08 | 9.89E-12 | 1.43E-10 | 2.13E-09 | 2.13E-09 | 1.05E-09 | 3.46E-09 |
| 1559 | 259358.6 | 4083816 | 1.21E-10 | 1.73E-09 | 3.09E-08 | 3.09E-08 | 1.73E-08 | 8.10E-08 | 1.84E-11 | 2.67E-10 | 4.83E-09 | 4.83E-09 | 2.66E-09 | 1.26E-08 | 9.98E-12 | 1.44E-10 | 2.13E-09 | 2.13E-09 | 1.06E-09 | 5.52E-09 |
| 1560 | 259391.4 | 4083847 | 1.23E-10 | 1.81E-09 | 3.20E-08 | 3.20E-08 | 1.78E-08 | 8.37E-08 | 1.90E-11 | 2.76E-10 | 4.99E-09 | 4.99E-09 | 2.74E-09 | 1.50E-08 | 1.03E-11 | 1.49E-10 | 2.22E-09 | 2.22E-09 | 1.10E-09 | 5.70E-09 |
| 1561 | 259401.5 | 4083869 | 1.28E-10 | 1.83E-09 | 3.27E-08 | 3.27E-08 | 1.82E-08 | 8.57E-08 | 1.94E-11 | 2.82E-10 | 3.11E-09 | 3.11E-09 | 2.81E-09 | 1.53E-08 | 1.06E-11 | 1.53E-10 | 2.27E-09 | 2.27E-09 | 1.12E-09 | 5.83E-09 |
| 1562 | 259411.2 | 4083891 | 1.51E-10 | 1.89E-09 | 3.34E-08 | 3.34E-08 | 1.86E-08 | 8.75E-08 | 1.99E-11 | 2.88E-10 | 5.22E-09 | 5.22E-09 | 2.87E-09 | 1.36E-08 | 1.08E-11 | 1.56E-10 | 2.52E-09 | 2.52E-09 | 1.13E-09 | 5.96E-09 |
| 1563 | 259421.2 | 4083913 | 1.53E-10 | 1.93E-09 | 3.41E-08 | 3.41E-08 | 1.90E-08 | 8.93E-08 | 2.03E-11 | 2.94E-10 | 5.52E-09 | 5.32E-09 | 2.93E-09 | 1.59E-08 | 1.10E-11 | 1.59E-10 | 2.37E-09 | 2.37E-09 | 1.17E-09 | 6.08E-09 |
| 1364 | 259431.1 | 4083935 | 1.56E-10 | 1.97E-09 | 3.47E-08 | 3.47E-08 | 1.93E-08 | 9.09E-08 | 2.06E-11 | 2.99E-10 | 5.42E-09 | 5.42E-09 | 2.98E-09 | 1.41E-08 | 1.12E-11 | 1.62E-10 | 2.41E-09 | 2.41E-09 | 1.19E-09 | 6.19E-09 |
| 1565 | 259441 | 4083956 | 1.56E-10 | 2.00E-09 | 3.53E-08 | 3.53E-08 | 1.97E-08 | 9.23E-08 | 2.10E-11 | 3.04E-10 | 5.51E-09 | 5.51E-09 | 3.03E-09 | 1.44E-08 | 1.14E-11 | 1.85E-10 | 2.45E-09 | 2.45E-09 | 1.21E-09 | 6.29E-09 |
| 1566 | 259450.9 | 4083978 | 1.40E-10 | 2.02E-09 | 3.57E-08 | 3.57E-08 | 1.99E-08 | 9.36E-08 | 2.12E-11 | 3.08E-10 | 5.58E-09 | 5.58E-09 | 3.07E-09 | 1.46E-08 | 1.15E-11 | 1.67E-10 | 2.48E-09 | 2.48E-09 | 1.23E-09 | 6.37E-09 |
| 1567 | 259460.9 | 4084000 | 1.42E-10 | 2.05E-09 | 3.62E-08 | 3.62E-08 | 2.02E-08 | 9.46E-08 | 2.15E-11 | 3.12E-10 | 5.64E-09 | 3.64E-09 | 3.10E-09 | 1.47E-08 | 1.17E-11 | 1.89E-10 | 2.51E-09 | 2.51E-09 | 1.24E-09 | 6.45E-09 |
| 1568 | 259470.8 | 4084022 | 1.43E-10 | 2.07E-09 | 3.65E-08 | 3.63E-08 | 2.03E-08 | 9.55E-08 | 2.17E-11 | 3.15E-10 | 3.70E-09 | 5.70E-09 | 3.13E-09 | 1.49E-08 | 1.16E-11 | 1.70E-10 | 2.53E-09 | 2.53E-09 | 1.25E-09 | 6.51E-09 |
| 1369 | 239480.7 | 4084044 | 1.44E-10 | 2.08E-09 | 3.67E-08 | 3.87E-08 | 2.05E-08 | 9.62E-08 | 2.18E-11 | 3.17E-10 | 3.74E-09 | 5.74E-09 | 3.15E-09 | 1.50E-08 | 1.19E-11 | 1.72E-10 | 2.53E-09 | 2.53E-09 | 1.26E-09 | 6.55E-09 |
| 1370 | 239490.7 | 4084066 | 1.43E-10 | 2.09E-09 | 3.69E-08 | 3.69E-08 | 2.06E-08 | 9.66E-08 | 2.19E-11 | 3.18E-10 | 3.76E-09 | 5.76E-09 | 3.17E-09 | 1.50E-08 | 1.19E-11 | 1.72E-10 | 2.56E-09 | 2.56E-09 | 1.27E-09 | 6.58E-09 |
| 1571 | 259500.6 | 4084086 | 1.45E-10 | 2.10E-09 | 3.70E-08 | 3.70E-08 | 2.06E-08 | 9.69E-08 | 2.20E-11 | 3.19E-10 | 5.78E-09 | 5.78E-09 | 3.18E-09 | 1.51E-08 | 1.19E-11 | 1.73E-10 | 2.57E-09 | 2.57E-09 | 1.27E-09 | 6.60E-09 |
| 1572 | 259510.3 | 4084110 | 1.43E-10 | 2.09E-09 | 3.70E-08 | 3.70E-08 | 2.06E-08 | 9.68E-08 | 2.20E-11 | 3.19E-10 | 3.78E-09 | 5.78E-09 | 3.18E-09 | 1.31E-08 | 1.19E-11 | 1.73E-10 | 2.57E-09 | 2.57E-09 | 1.27E-09 | 6.60E-09 |
| 1373 | 259320.4 | 4084132 | 1.44E-10 | 2.09E-09 | 3.69E-08 | 3.69E-08 | 2.06E-08 | 9.66E-08 | 2.19E-11 | 3.18E-10 | 3.76E-09 | 3.76E-09 | 3.17E-09 | 1.50E-08 | 1.19E-11 | 1.72E-10 | 2.56E-09 | 2.56E-09 | 1.27E-09 | 6.58E-09 |
| 1574 | 259530.4 | 4084154 | 1.44E-10 | 2.08E-09 | 3.67E-08 | 3.67E-08 | 2.05E-08 | 9.61E-08 | 2.18E-11 | 3.17E-10 | 5.73E-09 | 5.73E-09 | 3.15E-09 | 1.50E-08 | 1.18E-11 | 1.71E-10 | 2.55E-09 | 2.53E-09 | 1.26E-09 | 6.54E-09 |
| 1575 | 259540.5 | 4084176 | 1.43E-10 | 2.06E-09 | 3.64E-08 | 3.64E-08 | 2.03E-08 | 9.54E-08 | 2.16E-11 | 3.14E-10 | 5.69E-09 | 5.69E-09 | 3.13E-09 | 1.46E-08 | 1.18E-11 | 1.70E-10 | 2.53E-09 | 2.53E-09 | 1.25E-09 | 6.50E-09 |
| 1576 | 259550.2 | 4084198 | 1.41E-10 | 2.04E-09 | 3.61E-08 | 3.61E-08 | 2.01E-08 | 9.44E-08 | 2.14E-11 | 3.11E-10 | 5.63E-09 | 5.63E-09 | 3.10E-09 | 1.47E-08 | 1.16E-11 | 1.68E-10 | 2.51E-09 | 2.51E-09 | 1.24E-09 | 6.43E-09 |
| 1573 | 259580.2 | 4084220 | 1.40E-10 | 2.02E-09 | 3.57E-08 | 3.57E-08 | 1.99E-08 | 9.33E-08 | 2.12E-11 | 3.08E-10 | 5.57E-09 | 5.57E-09 | 3.06E-09 | 1.45E-08 | 1.15E-11 | 1.66E-10 | 2.48E-09 | 2.48E-09 | 1.23E-09 | 6.56E-09 |
| 1578 | 259570.1 | 4084242 | 1.38E-10 | 1.99E-09 | 3.52E-08 | 3.52E-08 | 1.96E-08 | 9.20E-08 | 2.09E-11 | 3.03E-10 | 5.49E-09 | 5.49E-09 | 3.02E-09 | 1.43E-08 | 1.13E-11 | 1.64E-10 | 2.44E-09 | 2.44E-09 | 1.21E-09 | 6.27E-09 |
| 1579 | 259580 | 4084264 | 1.53E-10 | 1.96E-09 | 3.46E-08 | 3.46E-08 | 1.93E-08 | 9.06E-08 | 2.06E-11 | 2.99E-10 | 5.40E-09 | 5.40E-09 | 2.97E-09 | 1.41E-08 | 1.12E-11 | 1.62E-10 | 2.40E-09 | 2.40E-09 | 1.19E-09 | 6.17E-09 |
| 1580 | 259590 | 4084286 | 1.53E-10 | 1.93E-09 | 3.40E-08 | 3.40E-08 | 1.90E-08 | 8.91E-08 | 2.02E-11 | 2.94E-10 | 3.51E-09 | 5.51E-09 | 2.92E-09 | 1.39E-08 | 1.10E-11 | 1.59E-10 | 2.36E-09 | 2.36E-09 | 1.17E-09 | 6.07E-09 |
| 1361 | 259599.9 | 4084308 | 1.51E-10 | 1.89E-09 | 3.34E-08 | 3.34E-08 | 1.86E-08 | 8.75E-08 | 1.98E-11 | 2.88E-10 | 3.22E-09 | 5.22E-09 | 2.87E-09 | 1.36E-08 | 1.08E-11 | 1.56E-10 | 2.32E-09 | 2.52E-09 | 1.15E-09 | 5.96E-09 |
| 1562 | 259609.8 | 4084330 | 1.26E-10 | 1.66E-09 | 3.28E-08 | 3.26E-08 | 1.83E-08 | 8.58E-08 | 1.95E-11 | 2.83E-10 | 3.12E-09 | 5.12E-09 | 2.81E-09 | 1.34E-08 | 1.06E-11 | 1.53E-10 | 2.28E-09 | 2.28E-09 | 1.13E-09 | 5.85E-09 |
| 1583 | 259619.7 | 4084332 | 1.26E-10 | 1.82E-09 | 3.22E-08 | 3.22E-08 | 1.79E-08 | 8.42E-08 | 1.91E-11 | 2.78E-10 | 3.02E-09 | 5.02E-09 | 2.76E-09 | 1.31E-08 | 1.04E-11 | 1.50E-10 | 2.23E-09 | 2.23E-09 | 1.11E-09 | 5.74E-09 |
| 1584 | 259629.7 | 4084374 | 1.24E-10 | 1.79E-09 | 3.16E-08 | 3.16E-08 | 1.76E-08 | 8.26E-08 | 1.68E-11 | 2.73E-10 | 4.93E-09 | 4.93E-09 | 2.71E-09 | 1.29E-08 | 1.02E-11 | 1.47E-10 | 2.19E-09 | 2.19E-09 | 1.09E-09 | 5.63E-09 |
| 1585 | 259639.6 | 4084393 | 1.21E-10 | 1.73E-09 | 3.10E-08 | 3.10E-08 | 1.73E-08 | 8.11E-08 | 1.84E-11 | 2.67E-10 | 4.84E-09 | 4.84E-09 | 2.66E-09 | 1.26E-08 | 1.00E-11 | 1.43E-10 | 2.15E-09 | 2.15E-09 | 1.07E-09 | 5.52E-09 |
| 1586 | 259649.5 | 4084417 | 1.19E-10 | 1.73E-09 | 3.05E-08 | 3.05E-08 | 1.70E-08 | 7.98E-08 | 1.81E-11 | 2.63E-10 | 4.76E-09 | 4.76E-09 | 2.62E-09 | 1.24E-08 | 9.84E-12 | 1.42E-10 | 2.12E-09 | 2.12E-09 | 1.03E-09 | 5.44E-09 |
| 1587 | 259659.5 | 4084439 | 1.17E-10 | 1.69E-09 | 2.99E-08 | 2.99E-08 | 1.67E-08 | 7.83E-08 | 1.78E-11 | 2.58E-10 | 4.67E-09 | 4.67E-09 | 2.57E-09 | 1.22E-08 | 9.66E-12 | 1.40E-10 | 2.08E-09 | 2.08E-09 | 1.03E-09 | 3.53E-09 |
| 1388 | 259669.4 | 4084461 | 1.13E-10 | 1.66E-09 | 2.93E-08 | 2.93E-08 | 1.64E-08 | 7.68E-08 | 1.74E-11 | 2.53E-10 | 4.58E-09 | 4.58E-09 | 2.52E-09 | 1.19E-08 | 9.47E-12 | 1.37E-10 | 2.04E-09 | 2.04E-09 | 1.01E-09 | 5.23E-09 |
| 1369 | 259679.3 | 4084483 | 1.12E-10 | 1.62E-09 | 2.87E-08 | 2.87E-08 | 1.60E-08 | 7.51E-08 | 1.71E-11 | 2.48E-10 | 4.48E-09 | 4.48E-09 | 2.46E-09 | 1.17E-08 | 9.28E-12 | 1.34E-10 | 1.99E-09 | 1.99E-09 | 9.87E-10 | 3.12E-09 |
| 1390 | 259689.2 | 4084505 | 1.10E-10 | 1.59E-09 | 2.80E-08 | 2.80E-08 | 1.56E-08 | 7.34E-08 | 1.67E-11 | 2.42E-10 | 4.38E-09 | 4.38E-09 | 2.41E-09 | 1.14E-08 | 9.04E-12 | 1.51E-10 | 1.95E-09 | 1.95E-09 | 9.64E-10 | 5.00E-09 |
| 1391 | 259699.2 | 4084527 | 1.07E-10 | 1.55E-09 | 2.73E-08 | 2.73E-08 | 1.52E-08 | 7.13E-08 | 1.62E-11 | 2.36E-10 | 4.26E-09 | 4.26E-09 | 2.34E-09 | 1.11E-08 | 8.81E-12 | 1.27E-10 | 1.90E-09 | 1.90E-09 | 9.39E-10 | 4.67E-09 |
| 1592 | 259709.1 | 4084549 | 1.04E-10 | 1.50E-09 | 2.65E-08 | 2.63E-08 | 1.48E-08 | 6.94E-08 | 1.58E-11 | 2.29E-10 | 4.14E-09 | 4.14E-09 | 2.28E-09 | 1.08E-08 | 8.56E-12 | 1.24E-10 | 1.84E-09 | 1.84E-09 | 9.12E-10 | 4.73E-09 |
| 1593 | 259719 | 4084571 | 1.01E-10 | 1.45E-09 | 2.57E-08 | 2.57E-08 | 1.43E-08 | 6.73E-08 | 1.53E-11 | 2.22E-10 | 4.01E-09 | 4.01E-09 | 2.20E-09 | 1.05E-08 | 6.29E-12 | 1.20E-10 | 1.78E-09 | 1.76E-09 | 6.83E-10 | 4.58E-09 |
| 1394 | 259729 | 4084593 | 9.72E-11 | 1.41E-09 | 2.48E-08 | 2.48E-08 | 1.38E-08 | 6.50E-08 | 1.47E-11 | 2.14E-10 | 3.88E-09 | 3.88E-09 | 2.13E-09 | 1.01E-08 | 8.01E-12 | 1.16E-10 | 1.72E-09 | 1.72E-09 | 6.53E-10 | 4.43E-09 |
| 1595 | 259738.9 | 4084615 | 9.38E-11 | 1.56E-09 | 2.40E-08 | 2.40E-08 | 1.34E-08 | 6.27E-08 | 1.42E-11 | 2.07E-10 | 3.74E-09 | 3.74E-09 | 2.06E-09 | 9.76E-09 | 7.73E-12 | 1.12E-10 | 1.66E-09 | 1.66E-09 | 8.24E-10 | 4.27E-09 |
| 1596 | 259748.8 | 4084637 | 9.05E-11 | 1.51E-09 | 2.31E-08 | 2.31E-08 | 1.29E-08 | 6.05E-08 | 1.37E-11 | 1.99E-10 | 3.61E-09 | 3.81E-09 | 1.98E-09 | 9.41E-09 | 7.46E-12 | 1.03E-10 | 1.81E-09 | 1.61E-09 | 7.94E-10 | 4.12E-09 |
| 1597 | 259758.8 | 4084659 | 8.73E-11 | 1.26E-09 | 2.23E-08 | 2.23E-08 | 1.24E-08 | 5.84E-08 | 1.33E-11 | 1.92E-10 | 3.48E-09 | 3.48E-09 | 1.91E-09 | 9.09E-09 | 7.20E-12 | 1.04E-10 | 1.55E-09 | 1.55E-09 | 7.67E-10 | 3.98E-09 |
| 1598 | 259768.7 | 4084681 | 8.45E-11 | 1.22E-09 | 2.16E-08 | 2.16E-08 | 1.20E-08 | 5.65E-08 | 1.28E-11 | 1.86E-10 | 3.37E-09 | 3.37E-09 | 1.85E-09 | 8.79E-09 | 6.96E-12 | 1.01E-10 | 1.50E-09 | 1.50E-09 | 7.42E-10 | 3.85E-09 |
| 1599 | 259778.6 | 4084703 | 8.19E-11 | 1.18E-09 | 2.09E-08 | 2.09E-08 | 1.17E-08 | 5.47E-08 | 1.24E-11 | 1.80E-10 | 3.26E-09 | 3.26E-09 | 1.79E-09 | 8.52E-09 | 6.75E-12 | 9.76E-11 | 1.45E-09 | 1.45E-09 | 7.19E-10 | 3.73E-09 |
| 1600 | 259788.5 | 4084725 | 7.95E-11 | 1.15E-09 | 2.03E-08 | 2.03E-08 | 1.13E-08 | 5.52E-08 | 1.21E-11 | 1.75E-10 | 3.17E-09 | 3.17E-09 | 1.74E-09 | 8.27E-09 | 6.56E-12 | 9.48E-11 | 1.41E-09 | 1.41E-09 | 6.98E-10 | 3.62E-09 |
| 1601 | 259798.5 | 4084747 | 7.74E-11 | 1.12E-09 | 1.98E-08 | 1.98E-08 | 1.10E-08 | 5.17E-08 | 1.17E-11 | 1.71E-10 | 3.09E-09 | 3.09E-09 | 1.70E-09 | 8.05E-09 | 6.38E-12 | 9.23E-11 | 1.37E-09 | 1.37E-09 | 6.80E-10 | 3.52E-09 |
| 1602 | 259808.4 | 4084769 | 7.54E-11 | 1.09E-09 | 1.93E-08 | 1.93E-08 | 1.07E-08 | 5.04E-08 | 1.14E-11 | 1.66E-10 | 3.01E-09 | 3.01E-09 | 1.65E-09 | 7.84E-09 | 6.21E-12 | 8.99E-11 | 1.34E-09 | 1.34E-09 | 6.62E-10 | 3.43E-09 |
| 1603 | 259816.5 | 4084791 | 7.34E-11 | 1.06E-09 | 1.88E-08 | 1.88E-08 | 1.05E-08 | 4.91E-08 | 1.11E-11 | 1.62E-10 | 2.93E-09 | 2.93E-09 | 1.61E-09 | 7.64E-09 | 6.05E-12 | 8.75E-11 | 1.30E-09 | 1.30E-09 | 6.43E-10 | 3.34E-09 |
| 1604 | 239828.3 | 4084812 | 7.14E-11 | 1.03E-09 | 1.82E-08 | 1.62E-08 | 1.02E-08 | 4.78E-08 | 1.08E-11 | 1.57E-10 | 2.83E-09 | 2.85E-09 | 1.37E-09 | 7.43E-09 | 5.89E-12 | 8.52E-11 | 1.27E-09 | 1.27E-09 | 6.27E-10 | 3.23E-09 |
| 1605 | 239838.2 | 4084834 | 6.94E-11 | 1.00E-09 | 1.77E-08 | 1.77E-08 | 9.88E-09 | 4.64E-08 | 1.05E-11 | 1.53E-10 | 2.77E-09 | 2.77E-09 | 1.52E-09 | 7.22E-09 | 5.72E-12 | 8.27E-11 | 1.23E-09 | 1.23E-09 | 6.09E-10 | 3.16E-09 |
| 1606 | 259848.1 | 4084836 | 6.73E-11 | 9.73E-10 | 1.72E-08 | 1.72E-08 | 9.58E-09 | 4.50E-08 | 1.02E-11 | 1.48E-10 | 2.68E-09 | 2.68E-09 | 1.48E-09 | 7.00E-09 | 3.35E-12 | 8.02E-11 | 1.19E-09 | 1.19E-09 | 5.91E-10 | 3.06E-09 |
| 1607 | 258297.1 | 4083423 | 2.42E-11 | 3.50E-10 | 6.16E-09 | 6.16E-09 | 3.43E-09 | 1.62E-08 | 3.68E-12 | 5.34E-11 | 9.66E-10 | 9.66E-10 | 3.31E-10 | 2.52E-09 | 2.00E-12 | 2.89E-11 | 4.30E-10 | 4.30E-10 | 2.13E-10 | 1.10E-09 |
| 1608 | 258272.7 | 4083424 | 2.37E-11 | 3.43E-10 | 6.06E-09 | 6.06E-09 | 3.38E-09 | 1.59E-08 | 3.60E-12 | 5.23E-11 | 9.47E-10 | 9.47E-10 | 3.20E-10 | 2.47E-09 | 1.96E-12 | 2.83E-11 | 4.21E-10 | 4.21E-10 | 2.08E-10 | 1.08E-09 |
| 1609 | 258240.4 | 4083423 | 2.33E-11 | 3.37E-10 | 5.93E-09 | 5.95E-09 | 3.52E-09 | 1.56E-08 | 3.53E-12 | 5.13E-11 | 9.29E-10 | 9.29E-10 | 3.11E-10 | 2.42E-09 | 1.92E-12 | 2.78E-11 | 4.13E-10 | 4.13E-10 | 2.05E-10 | 1.06E-09 |
| 1610 | 258224.1 | 4083426 | 2.29E-11 | 3.31E-10 | 5.84E-09 | 3.84E-09 | 3.26E-09 | 1.53E-08 | 3.47E-12 | 5.04E-11 | 9.12E-10 | 9.12E-10 | 3.01E-10 | 2.38E-09 | 1.88E-12 | 2.73E-11 | 4.06E-10 | 4.06E-10 | 2.01E-10 | 1.04E-09 |
| 1611 | 238199.7 | 4083427 | 2.24E-11 | 3.25E-10 | 5.73E-09 | 5.73E-09 | 3.20E-09 | 1.50E-08 | 3.41E-12 | 4.95E-11 | 8.95E-10 | 8.93E-10 | 4.92E-10 | 2.33E-09 | 1.85E-12 | 2.68E-11 | 3.98E-10 | 3.98E-10 | 1.97E-10 | 1.02E-09 |
| 1612 | 238173.4 | 4083428 | 2.20E-11 | 3.19E-10 | 5.63E-09 | 5.63E-09 | 3.14E-09 | 1.47E-08 | 3.35E-12 | 4.86E-11 | 8.79E-10 | 8.79E-10 | 4.83E-10 | 2.29E-09 | 1.82E-12 | 2.63E-11 | 3.91E-10 | 3.91E-10 | 1.94E-10 | 1.00E-09 |
| 1613 | 258151.1 | 4083429 | 2.16E-11 | 3.13E-10 | 5.53E-09 | 5.53E-09 | 3.08E-09 | 1.45E-08 | 3.29E-12 | 4.73E-11 | 8.63E-10 | 8.63E-10 | 4.73E-10 | 2.25E-09 | 1.78E-12 | 2.58E-11 | 3.84E-10 | 3.84E-10 | 1.90E-10 | 9.86E-10 |
| 1614 | 258126.7 | 4083430 | 2.13E-11 | 3.07E-10 | 5.43E-09 | 5.43E-09 | 3.03E-09 | 1.42E-08 | 3.23E-12 | 4.68E-11 | 8.48E-10 | 8.48E-10 | 4.66E-10 | 2.21E-09 | 1.75E-12 | 2.53E-11 | 3.77E-10 | 3.77E-10 | 1.67E-10 | 9.68E-10 |
| 1615 | 258102.4 | 4083431 | 2.09E-11 | 3.02E-10 | 5.33E-09 | 5.33E-09 | 2.97E-09 | 1.39E-08 | 3.17E-12 | 4.60E-11 | 8.32E-10 | 6.52E-10 | 4.57E-10 | 2.17E-09 | 1.72E-12 | 2.49E-11 | 3.70E-10 | 3.70E-10 | 1.83E-10 | 9.50E-10 |
| 1616 | 258078.1 | 4083432 | 2.05E-11 | 2.96E-10 | 5.23E-09 | 5.23E-09 | 2.91E-09 | 1.37E-08 | 3.10E-12 | 4.51E-11 | 8.16E-10 | 6.16E-10 | 4.49E-10 | 2.13E-09 | 1.69E-12 | 2.44E-11 | 3.63E-10 | 3.63E-10 | 1.80E-10 | 9.32E-10 |
| 1617 | 258053.8 | 4083433 | 2.01E-11 | 2.91E-10 | 5.13E-09 | 5.13E-09 | 2.86E-09 | 1.34E-08 | 3.05E-12 | 4.43E-11 | 6.01E-10 | 8.01E-10 | 4.40E-10 | 2.09E-09 | 1.66E-12 | 2.39E-11 | 3.56E-10 | 3.56E-10 | 1.76E-10 | 9.15E-10 |
| 1618 | 258029.4 | 4083434 | 1.97E-11 | 2.85E-10 | 5.03E-09 | 5.03E-09 | 2.80E-09 | 1.32E-08

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1413 | 258685.7 | 4083764 | 7.04E-11 | 1.02E-08 | 1.80E-08 | 1.80E-08 | 1.00E-08 | 4.71E-08 |
| 1414 | 258708 | 4083772 | 7.59E-11 | 1.07E-09 | 1.89E-08 | 1.89E-08 | 1.05E-08 | 4.94E-08 |
| 1415 | 266730.4 | 4083781 | 7.74E-11 | 1.12E-09 | 1.98E-08 | 1.98E-08 | 1.10E-08 | 5.18E-08 |
| 1416 | 258752.8 | 4083789 | 8.11E-11 | 1.17E-09 | 2.07E-08 | 2.07E-08 | 1.16E-08 | 5.43E-08 |
| 1417 | 258775.2 | 4083797 | 8.49E-11 | 1.23E-09 | 2.17E-08 | 2.17E-08 | 1.21E-08 | 5.68E-08 |
| 1418 | 258797.6 | 4083805 | 8.88E-11 | 1.28E-09 | 2.27E-08 | 2.27E-08 | 1.26E-08 | 5.94E-08 |
| 1419 | 258819.9 | 4083814 | 9.27E-11 | 1.34E-09 | 2.37E-08 | 2.37E-08 | 1.32E-08 | 6.20E-08 |
| 1420 | 258842.3 | 4083822 | 9.67E-11 | 1.40E-09 | 2.47E-08 | 2.47E-08 | 1.38E-08 | 6.46E-08 |
| 1421 | 258864.7 | 4083830 | 1.01E-10 | 1.46E-09 | 2.57E-08 | 2.57E-08 | 1.43E-08 | 6.73E-08 |
| 1422 | 258887.1 | 4083839 | 1.05E-10 | 1.51E-09 | 2.67E-08 | 2.67E-08 | 1.49E-08 | 7.00E-08 |
| 1423 | 258909.4 | 4083847 | 1.09E-10 | 1.57E-09 | 2.78E-08 | 2.78E-08 | 1.55E-08 | 7.27E-08 |
| 1424 | 258931.8 | 4083855 | 1.13E-10 | 1.63E-09 | 2.88E-08 | 2.88E-08 | 1.60E-08 | 7.54E-08 |
| 1425 | 258954.2 | 4083863 | 1.17E-10 | 1.69E-09 | 2.98E-08 | 2.98E-08 | 1.66E-08 | 7.80E-08 |
| 1426 | 258976.6 | 4083872 | 1.21E-10 | 1.74E-09 | 3.08E-08 | 3.08E-08 | 1.77E-08 | 8.06E-08 |
| 1427 | 258998.9 | 4083880 | 1.24E-10 | 1.80E-09 | 3.17E-08 | 3.17E-08 | 1.77E-08 | 8.31E-08 |
| 1428 | 259021.5 | 4083888 | 1.28E-10 | 1.85E-09 | 3.27E-08 | 3.27E-08 | 1.62E-08 | 8.56E-08 |
| 1429 | 259043.7 | 4083897 | 1.31E-10 | 1.90E-09 | 3.36E-08 | 3.36E-08 | 1.87E-08 | 8.79E-08 |
| 1430 | 259066.1 | 4083905 | 1.35E-10 | 1.95E-09 | 3.44E-08 | 3.44E-08 | 1.92E-08 | 9.01E-08 |
| 1431 | 259088.4 | 4083913 | 1.38E-10 | 1.99E-09 | 3.52E-08 | 3.52E-08 | 1.96E-08 | 9.21E-08 |
| 1432 | 259110.8 | 4083921 | 1.41E-10 | 2.03E-09 | 3.59E-08 | 3.59E-08 | 2.00E-08 | 9.40E-08 |
| 1433 | 259133.2 | 4083930 | 1.43E-10 | 2.07E-09 | 3.66E-08 | 3.66E-08 | 2.04E-08 | 9.58E-08 |
| 1434 | 259155.6 | 4083938 | 1.46E-10 | 2.10E-09 | 3.77E-08 | 3.72E-08 | 2.07E-08 | 9.73E-08 |
| 1435 | 259177.9 | 4083946 | 1.47E-10 | 2.13E-09 | 3.77E-08 | 3.77E-08 | 2.10E-08 | 9.86E-08 |
| 1436 | 259200.3 | 4083955 | 1.49E-10 | 2.16E-09 | 3.81E-08 | 3.61E-08 | 2.12E-08 | 9.97E-08 |
| 1437 | 259222.7 | 4083963 | 1.51E-10 | 2.18E-09 | 3.84E-08 | 3.84E-08 | 2.14E-08 | 1.01E-07 |
| 1438 | 259254.9 | 4083993 | 1.56E-10 | 2.25E-09 | 3.98E-08 | 3.98E-08 | 2.22E-08 | 1.04E-07 |
| 1439 | 259264.7 | 4084015 | 1.59E-10 | 2.31E-09 | 4.07E-08 | 4.07E-08 | 2.27E-08 | 1.07E-07 |
| 1440 | 259274.6 | 4084036 | 1.63E-10 | 2.36E-09 | 4.18E-08 | 4.16E-08 | 2.32E-08 | 1.09E-07 |
| 1441 | 259284.4 | 4084058 | 1.66E-10 | 2.40E-09 | 4.25E-08 | 4.25E-08 | 2.57E-08 | 1.11E-07 |
| 1442 | 259294.2 | 4084080 | 1.69E-10 | 2.45E-09 | 4.32E-08 | 4.52E-08 | 2.41E-08 | 1.13E-07 |
| 1443 | 259304.1 | 4084102 | 1.77E-10 | 2.48E-09 | 4.38E-08 | 4.38E-08 | 2.44E-08 | 1.15E-07 |
| 1444 | 259313.9 | 4084123 | 1.74E-10 | 2.51E-09 | 4.44E-08 | 4.44E-08 | 2.47E-08 | 1.16E-07 |
| 1445 | 259323.7 | 4084145 | 1.75E-10 | 2.53E-09 | 4.48E-08 | 4.48E-08 | 2.50E-08 | 1.17E-07 |
| 1446 | 259333.6 | 4084167 | 1.76E-10 | 2.55E-09 | 4.50E-08 | 4.50E-08 | 2.51E-08 | 1.18E-07 |
| 1447 | 259343.4 | 4084188 | 1.77E-10 | 2.56E-09 | 4.52E-08 | 4.52E-08 | 2.52E-08 | 1.18E-07 |
| 1448 | 259353.3 | 4084210 | 1.77E-10 | 2.56E-09 | 4.52E-08 | 4.52E-08 | 2.52E-08 | 1.18E-07 |
| 1449 | 259363.1 | 4084232 | 1.77E-10 | 2.55E-09 | 4.51E-08 | 4.51E-08 | 2.51E-08 | 1.18E-07 |
| 1450 | 259372.9 | 4084254 | 1.76E-10 | 2.54E-09 | 4.49E-08 | 4.49E-08 | 2.50E-08 | 1.17E-07 |
| 1451 | 259382.8 | 4084275 | 1.74E-10 | 2.52E-09 | 4.45E-08 | 4.45E-08 | 2.48E-08 | 1.17E-07 |
| 1452 | 259392.6 | 4084297 | 1.72E-10 | 2.49E-09 | 4.40E-08 | 4.40E-08 | 2.46E-08 | 1.15E-07 |
| 1453 | 259402.4 | 4084319 | 1.70E-10 | 2.46E-09 | 4.55E-08 | 4.55E-08 | 2.42E-08 | 1.14E-07 |
| 1454 | 259412.3 | 4084341 | 1.68E-10 | 2.42E-09 | 4.28E-08 | 4.28E-08 | 2.39E-08 | 1.12E-07 |
| 1455 | 259422.1 | 4084362 | 1.65E-10 | 2.38E-09 | 4.21E-08 | 4.21E-08 | 2.35E-08 | 1.10E-07 |
| 1456 | 259431.9 | 4084384 | 1.62E-10 | 2.54E-09 | 4.13E-08 | 4.13E-08 | 2.30E-08 | 1.08E-07 |
| 1457 | 259441.8 | 4084406 | 1.59E-10 | 2.30E-09 | 4.06E-08 | 4.06E-08 | 2.26E-08 | 1.06E-07 |
| 1458 | 259451.6 | 4084428 | 1.56E-10 | 2.25E-09 | 3.98E-08 | 3.98E-08 | 2.22E-08 | 1.04E-07 |
| 1459 | 259461.4 | 4084449 | 1.52E-10 | 2.20E-09 | 3.89E-08 | 3.89E-08 | 2.17E-08 | 1.02E-07 |
| 1460 | 259471.3 | 4084471 | 1.49E-10 | 2.15E-09 | 3.80E-08 | 3.80E-08 | 2.12E-08 | 9.95E-08 |
| 1461 | 259481.1 | 4084493 | 1.45E-10 | 2.10E-09 | 3.71E-08 | 3.71E-08 | 2.07E-08 | 9.72E-08 |
| 1462 | 259490.9 | 4084515 | 1.42E-10 | 2.05E-09 | 3.62E-08 | 3.62E-08 | 2.02E-08 | 9.49E-08 |
| 1463 | 259500.8 | 4084536 | 1.38E-10 | 2.00E-09 | 3.53E-08 | 3.53E-08 | 1.97E-08 | 9.25E-08 |
| 1464 | 259510.6 | 4084558 | 1.35E-10 | 1.95E-09 | 3.44E-08 | 3.44E-08 | 1.92E-08 | 8.99E-08 |
| 1465 | 259520.4 | 4084580 | 1.30E-10 | 1.89E-09 | 3.33E-08 | 3.33E-08 | 1.86E-08 | 8.72E-08 |
| 1466 | 259530.3 | 4084602 | 1.26E-10 | 1.83E-09 | 3.22E-08 | 3.22E-08 | 1.80E-08 | 8.44E-08 |
| 1467 | 259540.1 | 4084623 | 1.22E-10 | 1.76E-09 | 3.11E-08 | 3.11E-08 | 1.73E-08 | 8.15E-08 |
| 1468 | 259549.9 | 4084645 | 1.17E-10 | 1.70E-09 | 3.00E-08 | 3.00E-08 | 1.87E-08 | 7.84E-08 |
| 1469 | 259559.8 | 4084667 | 1.13E-10 | 1.63E-09 | 2.88E-08 | 2.88E-08 | 1.61E-08 | 7.54E-08 |
| 1470 | 259569.6 | 4084688 | 1.08E-10 | 1.57E-09 | 2.77E-08 | 2.77E-08 | 1.54E-08 | 7.25E-08 |
| 1471 | 259579.5 | 4084710 | 1.04E-10 | 1.51E-09 | 2.67E-08 | 2.67E-08 | 1.49E-08 | 6.98E-08 |
| 1472 | 259669.3 | 4084732 | 1.01E-10 | 1.46E-09 | 2.57E-08 | 2.57E-08 | 1.43E-08 | 6.73E-08 |
| 1473 | 259599.1 | 4084754 | 9.72E-11 | 1.41E-09 | 2.48E-08 | 2.48E-08 | 1.38E-08 | 6.50E-08 |
| 1474 | 259609 | 4084775 | 9.40E-11 | 1.36E-08 | 2.40E-08 | 2.40E-08 | 1.34E-08 | 6.29E-08 |
| 1475 | 259618.8 | 4084797 | 9.10E-11 | 1.52E-09 | 2.33E-08 | 2.53E-08 | 1.30E-08 | 6.09E-08 |
| 1476 | 259628.6 | 4084819 | 8.82E-11 | 1.28E-09 | 2.25E-08 | 2.25E-08 | 1.26E-08 | 5.89E-08 |
| 1477 | 259638.5 | 4084841 | 8.53E-11 | 1.23E-09 | 2.18E-08 | 2.18E-08 | 1.21E-08 | 5.70E-08 |
| 1478 | 259648.3 | 4084862 | 8.24E-11 | 1.19E-08 | 2.11E-08 | 2.11E-08 | 1.17E-08 | 5.51E-08 |
| 1479 | 258305.5 | 4083623 | 3.28E-11 | 4.71E-10 | 8.32E-09 | 6.32E-09 | 4.64E-09 | 2.18E-08 |
| 1480 | 258261 | 4083624 | 3.18E-11 | 4.60E-10 | 8.12E-09 | 8.12E-09 | 4.53E-09 | 2.13E-08 |
| 1481 | 258256.6 | 4083625 | 3.11E-11 | 4.49E-10 | 7.94E-09 | 7.94E-09 | 4.42E-09 | 2.08E-08 |
| 1482 | 258232.5 | 4083626 | 3.04E-11 | 4.39E-10 | 7.75E-09 | 7.75E-09 | 4.32E-09 | 2.03E-08 |
| 1483 | 258208 | 4083627 | 2.96E-11 | 4.29E-10 | 7.57E-09 | 7.57E-09 | 4.22E-09 | 1.98E-08 |
| 1484 | 258183.6 | 4083628 | 2.90E-11 | 4.19E-10 | 7.59E-09 | 7.59E-09 | 4.12E-09 | 1.94E-08 |
| 1485 | 266159.5 | 4083629 | 2.83E-11 | 4.09E-10 | 7.22E-09 | 7.22E-09 | 4.02E-09 | 1.89E-08 |
| 1486 | 258135 | 4083630 | 2.76E-11 | 3.99E-10 | 7.04E-09 | 7.04E-09 | 3.93E-09 | 1.84E-08 |
| 1487 | 258110.6 | 4083631 | 2.69E-11 | 3.89E-10 | 6.87E-09 | 6.87E-09 | 3.83E-09 | 1.80E-08 |
| 1488 | 258086.3 | 4083632 | 2.62E-11 | 3.79E-10 | 6.70E-09 | 6.70E-09 | 3.73E-09 | 1.75E-08 |
| 1489 | 258062 | 4083633 | 2.56E-11 | 3.70E-10 | 6.54E-09 | 6.54E-09 | 3.64E-09 | 1.71E-08 |
| 1490 | 258037.6 | 4083634 | 2.50E-11 | 3.61E-10 | 6.37E-09 | 6.37E-09 | 3.55E-09 | 1.67E-08 |
| 1491 | 258013.3 | 4083635 | 2.42E-11 | 3.52E-10 | 6.21E-09 | 6.21E-09 | 3.46E-09 | 1.63E-08 |
| 1492 | 257989 | 4083636 | 2.37E-11 | 3.43E-10 | 6.06E-09 | 6.06E-09 | 3.38E-09 | 1.59E-08 |
| 1493 | 257964.6 | 4083637 | 2.32E-11 | 3.35E-10 | 5.91E-09 | 5.91E-09 | 3.30E-09 | 1.55E-08 |
| 1494 | 257940.5 | 4083638 | 2.26E-11 | 3.27E-10 | 5.78E-09 | 5.78E-09 | 3.22E-09 | 1.51E-08 |
| 1495 | 257916 | 4083639 | 2.21E-11 | 3.20E-10 | 5.64E-09 | 5.84E-09 | 3.15E-09 | 1.48E-08 |
| 1496 | 257891.6 | 4083640 | 2.18E-11 | 3.12E-10 | 5.52E-09 | 5.52E-09 | 3.08E-09 | 1.44E-08 |
| 1497 | 257867.3 | 4083641 | 2.11E-11 | 3.06E-10 | 5.40E-09 | 5.40E-09 | 3.01E-09 | 1.41E-08 |
| 1498 | 257843 | 4083642 | 2.07E-11 | 2.99E-10 | 5.29E-09 | 5.29E-09 | 2.95E-09 | 1.38E-08 |
| 1499 | 257618.6 | 4083643 | 2.03E-11 | 2.94E-10 | 5.16E-09 | 5.18E-09 | 2.89E-09 | 1.38E-06 |
| 1500 | 257794.3 | 4083644 | 1.99E-11 | 2.88E-10 | 5.09E-09 | 5.09E-09 | 2.84E-09 | 1.33E-08 |
| 1501 | 257770 | 4083645 | 1.96E-11 | 2.63E-10 | 5.00E-09 | 5.00E-09 | 2.79E-09 | 1.31E-08 |
| 1502 | 257745.7 | 4083646 | 1.92E-11 | 2.76E-10 | 4.91E-09 | 4.91E-09 | 2.74E-09 | 1.29E-08 |
| 1503 | 257721.5 | 4083647 | 1.90E-11 | 2.74E-10 | 4.84E-09 | 4.84E-09 | 2.70E-09 | 1.27E-08 |
| 1504 | 257697 | 4083648 | 1.87E-11 | 2.70E-10 | 4.77E-09 | 4.77E-09 | 2.66E-09 | 1.25E-08 |
| 1505 | 257672.7 | 4083649 | 1.84E-11 | 2.66E-10 | 4.70E-09 | 4.70E-09 | 2.62E-09 | 1.23E-08 |
| 1506 | 257648.3 | 4083650 | 1.82E-11 | 2.63E-10 | 4.84E-09 | 4.64E-09 | 2.59E-09 | 1.22E-08 |
| 1507 | 257624 | 4083651 | 1.79E-11 | 2.60E-10 | 4.58E-09 | 4.58E-09 | 2.56E-09 | 1.20E-08 |
| 1508 | 257599.7 | 4083652 | 1.77E-11 | 2.56E-10 | 4.53E-09 | 4.53E-09 | 2.52E-09 | 1.19E-08 |
| 1509 | 257575.3 | 4083653 | 1.75E-11 | 2.53E-10 | 4.47E-09 | 4.47E-09 | 2.49E-09 | 1.17E-08 |
| 1510 | 257551 | 4083654 | 1.73E-11 | 2.50E-10 | 4.42E-09 | 4.42E-09 | 2.46E-09 | 1.16E-08 |
| 1511 | 257526.7 | 4083655 | 1.71E-11 | 2.48E-10 | 4.37E-09 | 4.37E-09 | 2.44E-09 | 1.14E-08 |
| 1512 | 257502.5 | 4083656 | 1.69E-11 | 2.45E-10 | 4.32E-09 | 4.32E-09 | 2.41E-09 | 1.13E-08 |
| 1513 | 258319.7 | 4083432 | 2.50E-11 | 3.61E-10 | 6.37E-09 | 6.37E-09 | 3.55E-09 | 1.67E-08 |
| 1514 | 258342.3 | 4083440 | 2.58E-11 | 3.73E-10 | 6.58E-09 | 6.58E-09 | 3.67E-09 | 1.77E-08 |
| 1515 | 258364.8 | 4083448 | 2.66E-11 | 3.85E-10 | 6.80E-09 | 6.80E-09 | 3.79E-09 | 1.78E-08 |
| 1516 | 258387.4 | 4083457 | 2.75E-11 | 3.98E-10 | 7.03E-09 | 7.03E-09 | 3.92E-09 | 1.84E-08 |
| 1517 | 258410 | 4083465 | 2.85E-11 | 4.12E-10 | 7.27E-09 | 7.27E-09 | 4.05E-09 | 1.90E-08 |
| 1518 | 258432.6 | 4083474 | 2.95E-11 | 4.27E-10 | 7.54E-09 | 7.54E-09 | 4.20E-09 | 1.97E-08 |
| 1519 | 258455.2 | 4083482 | 3.06E-11 | 4.42E-10 | 7.81E-09 | 7.81E-09 | 4.35E-09 | 2.04E-08 |
| 1520 | 258477.8 | 4083490 | 3.17E-11 | 4.59E-10 | 6.10E-09 | 8.10E-09 | 4.51E-09 | 2.12E-08 |
| 1521 | 258500.4 | 4083499 | 3.29E-11 | 4.76E-10 | 6.40E-09 | 8.40E-09 | 4.68E-09 | 2.20E-08 |
| 1522 | 258523 | 4083507 | 3.42E-11 | 4.95E-10 | 8.73E-09 | 8.73E-09 | 4.87E-09 | 2.29E-08 |
| 1523 | 258545.6 | 4083515 | 3.56E-11 | 5.14E-10 | 9.08E-09 | 9.08E-09 | 5.06E-09 | 2.38E-08 |
| 1524 | 258568.2 | 4083524 | 3.70E-11 | 5.36E-10 | 9.46E-09 | 9.46E-09 | 5.27E-09 | 2.48E-08 |
| 1525 | 258590.8 | 4083532 | 3.86E-11 | 5.58E-10 | 9.86E-09 | 9.86E-09 | 5.49E-09 | 2.58E-08 |
| 1526 | 258613.3 | 4083540 | 4.03E-11 | 5.82E-10 | 1.03E-08 | 1.03E-08 | 5.73E-09 | 2.69E-08 |
| 1527 | 258635.9 | 4083549 | 4.20E-11 | 6.08E-10 | 1.07E-08 | 1.07E-08 | 5.98E-09 | 2.81E-08 |
| 1528 | 258658.5 | 4083557 | 4.39E-11 | 6.35E-10 | 1.12E-08 | 1.12E-08 | 6.26E-09 | 2.94E-08 |
| 1529 | 258681.1 | 4083566 | 4.59E-11 | 6.65E-10 | 1.17E-08 | 1.17E-06 | 6.54E-09 | 3.07E-08 |
| 1530 | 258703.7 | 4083574 | 4.80E-11 | 6.95E-10 | 1.23E-08 | 1.23E-08 | 6.84E-09 | 3.21E-08 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1.07E-11 | 1.55E-10 | 2.81E-09 | 2.81E-09 | 1.54E-09 | 7.32E-09 | | |
| 1.12E-11 | 1.63E-10 | 2.95E-09 | 2.95E-09 | 1.62E-09 | 7.68E-09 | | |
| 1.18E-11 | 1.71E-10 | 3.09E-09 | 3.09E-09 | 1.70E-09 | 8.06E-09 | | |
| 1.23E-11 | 1.79E-10 | 3.24E-09 | 3.24E-09 | 1.78E-09 | 8.44E-09 | | |
| 1.29E-11 | 1.87E-10 | 3.39E-09 | 3.39E-09 | 1.86E-09 | 8.83E-09 | | |
| 1.35E-11 | 1.96E-10 | 3.54E-09 | 3.54E-09 | 1.95E-09 | 9.23E-09 | | |
| 1.41E-11 | 2.04E-10 | 3.70E-09 | 3.70E-09 | 2.03E-09 | 9.65E-09 | | |
| 1.47E-11 | 2.13E-10 | 3.86E-09 | 3.86E-09 | 2.12E-09 | 1.01E-08 | | |
| 1.53E-11 | 2.22E-10 | 4.01E-09 | 4.01E-09 | 2.21E-09 | 1.05E-08 | | |
| 1.59E-11 | 2.31E-10 | 4.18E-09 | 4.18E-09 | 2.30E-09 | 1.09E-08 | | |
| 1.65E-11 | 2.40E-10 | 4.33E-09 | 4.33E-09 | 2.38E-09 | 1.13E-08 | | |
| 1.71E-11 | 2.48E-10 | 4.49E-09 | 4.49E-09 | 2.47E-09 | 1.17E-08 | | |
| 1.77E-11 | 2.57E-10 | 4.65E-09 | 4.65E-09 | 2.56E-09 | 1.21E-08 | | |
| 1.83E-11 | 2.66E-10 | 4.81E-09 | 4.81E-09 | 2.64E-09 | 1.25E-08 | | |
| 1.89E-11 | 2.74E-10 | 4.96E-09 | 4.96E-09 | 2.73E-09 | 1.29E-08 | | |
| 1.94E-11 | 2.82E-10 | 5.10E-09 | 5.10E-09 | 2.81E-09 | 1.33E-08 | | |
| 2.00E-11 | 2.90E-10 | 5.24E-09 | 5.24E-09 | 2.88E-09 | 1.37E-08 | | |
| 2.04E-11 | 2.97E-10 | 5.37E-09 | 5.37E-09 | 2.95E-09 | 1.40E-08 | | |
| 2.09E-11 | 3.04E-10 | 5.50E-09 | 5.30E-09 | 3.02E-09 | 1.43E-08 | | |
| 2.13E-11 | 3.10E-10 | 5.61E-09 | 5.61E-09 | 3.08E-09 | 1.46E-08 | | |
| 2.17E-11 | 3.16E-10 | 5.71E-09 | 5.71E-09 | 3.14E-09 | 1.49E-08 | | |
| 2.21E-11 | 3.21E-10 | 5.80E-09 | 5.80E-09 | 3.19E-09 | 1.51E-08 | | |
| 2.24E-11 | 3.25E-10 | 5.88E-09 | 5.88E-09 | 3.23E-09 | 1.53E-08 | | |
| 2.26E-11 | 3.29E-10 | 5.95E-09 | 5.95E-09 | 3.27E-09 | 1.55E-08 | | |
| 2.28E-11 | 3.32E-10 | 6.00E-09 | 6.00E-09 | 3.30E-09 | 1.57E-08 | | |
| 2.30E-11 | 3.43E-10 | 6.21E-09 | 6.21E-09 | 3.41E-09 | 1.62E-08 | | |
| 2.42E-11 | 3.51E-10 | 6.36E-09 | 6.36E-09 | 3.49E-09 | 1.66E-08 | | |
| 2.47E-11 | 3.59E-10 | 6.50E-09 | 6.50E-09 | 3.57E-09 | 1.70E-08 | | |
| 2.52E-11 | 3.66E-10 | 6.63E-09 | 6.63E-09 | 3.64E-09 | 1.73E-08 | | |
| 2.57E-11 | 3.73E-10 | 6.74E-09 | 6.74E-09 | 3.71E-09 | 1.76E-08 | | |
| 2.60E-11 | 3.78E-10 | 6.84E-09 | 6.84E-09 | 3.76E-09 | 1.79E-08 | | |
| 2.64E-11 | 3.83E-10 | 6.93E-09 | 6.93E-09 | 3.81E-09 | 1.81E-08 | | |
| 2.66E-11 | 3.86E-10 | 6.99E-09 | 6.99E-09 | 3.84E-09 | 1.82E-08 | | |
| 2.68E-11 | 3.89E-10 | 7.03E-09 | 7.03E-09 | 3.87E-09 | 1.83E-08 | | |
| 2.69E-11 | 3.90E-10 | 7.06E-09 | 7.06E-09 | 3.88E-09 | 1.84E-08 | | |
| 2.69E-11 | 3.90E-10 | 7.06E-09 | 7.06E-09 | 3.88E-09 | 1.84E-08 | | |
| 2.88E-11 | 3.89E-10 | 7.04E-09 | 7.04E-09 | 3.87E-09 | 1.84E-08 | | |
| 2.67E-11 | 3.87E-10 | 7.01E-09 | 7.01E-09 | 3.85E-09 | 1.83E-08 | | |
| 2.65E-11 | 3.84E-10 | 6.95E-09 | 6.95E-09 | 3.82E-09 | 1.81E-08 | | |
| 2.62E-11 | 3.80E-10 | 6.88E-09 | 6.88E-09 | 3.78E-09 | 1.79E-08 | | |
| 2.58E-11 | 3.75E-10 | 6.79E-09 | 6.79E-09 | 3.73E-09 | 1.77E-08 | | |
| 2.54E-11 | 3.69E-10 | 6.69E-09 | 6.69E-09 | 3.68E-09 | 1.74E-08 | | |
| 2.50E-11 | 3.63E-10 | 6.57E-09 | 6.57E-09 | 3.61E-09 | 1.71E-08 | | |
| 2.45E-11 | 3.56E-10 | 6.45E-09 | 6.45E-09 | 3.54E-09 | 1.68E-08 | | |
| 2.41E-11 | 3.50E-10 | 6.34E-09 | 6.34E-09 | 3.49E-09 | 1.65E-08 | | |
| 2.36E-11 | 3.43E-10 | 6.21E-09 | 6.21E-09 | 3.41E-09 | 1.62E-08 | | |
| 2.51E-11 | 3.36E-10 | 6.07E-09 | 6.07E-09 | 3.34E-09 | 1.56E-08 | | |
| 2.26E-11 | 3.28E-10 | 5.94E-09 | 5.94E-09 | 3.28E-09 | 1.55E-08 | | |
| 2.21E-11 | 3.20E-10 | 5.80E-09 | 5.80E-09 | 3.19E-09 | 1.51E-08 | | |
| 2.15E-11 | 3.13E-10 | 5.66E-09 | 5.66E-09 | 3.11E-09 | 1.48E-08 | | |
| 2.10E-11 | 3.05E-10 | 5.51E-09 | 5.51E-09 | 3.03E-09 | 1.44E-08 | | |
| 2.04E-11 | 2.96E-10 | 5.36E-09 | 5.36E-09 | 2.95E-09 | 1.40E-08 | | |
| 1.98E-11 | 2.87E-10 | 5.20E-09 | 5.20E-09 | 2.66E-09 | 1.36E-08 | | |
| 1.92E-11 | 2.78E-10 | 5.03E-09 | 5.03E-09 | 2.77E-09 | 1.31E-06 | | |
| 1.85E-11 | 2.68E-10 | 4.66E-09 | 4.86E-09 | 2.67E-09 | 1.27E-08 | | |
| 1.78E-11 | 2.58E-10 | 4.68E-09 | 4.68E-09 | 2.57E-09 | 1.22E-08 | | |
| 1.71E-11 | 2.49E-10 | 4.50E-09 | 4.50E-09 | 2.47E-09 | 1.17E-08 | | |
| 1.65E-11 | 2.39E-10 | 4.33E-09 | 4.53E-09 | 2.38E-09 | 1.13E-08 | | |
| 1.58E-11 | 2.30E-10 | 4.16E-09 | 4.16E-09 | 2.29E-08 | 1.09E-08 | | |
| 1.53E-11 | 2.22E-10 | 4.01E-09 | 4.01E-09 | 2.21E-09 | 1.05E-08 | | |
| 1.47E-11 | 2.14E-10 | 3.88E-09 | 3.88E-09 | 2.13E-09 | 1.01E-08 | | |
| 1.43E-11 | 2.07E-10 | 3.75E-09 | 3.75E-09 | 2.06E-09 | 9.78E-09 | | |
| 1.38E-11 | 2.01E-10 | 3.63E-09 | 3.63E-09 | 2.00E-09 | 9.47E-09 | | |
| 1.34E-11 | 1.94E-10 | 3.52E-09 | 3.52E-09 | 1.93E-09 | 9.17E-09 | | |
| 1.29E-11 | 1.88E-10 | 3.40E-09 | 3.40E-09 | 1.87E-09 | 8.87E-09 | | |
| 1.25E-11 | 1.82E-10 | 3.29E-09 | 3.29E-09 | 1.81E-09 | 8.58E-09 | | |
| 4.94E-12 | 7.18E-11 | 1.30E-09 | 1.30E-09 | 7.14E-10 | 3.39E-09 | | |
| 4.83E-12 | 7.01E-11 | 1.27E-09 | 1.27E-09 | 6.97E-10 | 3.31E-09 | | |
| 4.72E-12 | 6.85E-11 | 1.24E-09 | 1.24E-09 | 6.81E-10 | 3.23E-09 | | |
| 4.61E-12 | 6.69E-11 | 1.21E-09 | 1.21E-09 | 6.66E-10 | 3.16E-09 | | |
| 4.50E-12 | 6.53E-11 | 1.18E-09 | 1.18E-09 | 6.50E-10 | 3.08E-09 | | |
| 4.39E-12 | 6.38E-11 | 1.15E-09 | 1.15E-09 | 6.35E-10 | 3.01E-09 | | |
| 4.29E-12 | 6.23E-11 | 1.13E-09 | 1.13E-09 | 6.20E-10 | 2.94E-09 | | |
| 4.19E-12 | 6.08E-11 | 1.10E-09 | 1.10E-09 | 6.05E-10 | 2.87E-09 | | |
| 4.08E-12 | 5.92E-11 | 1.07E-09 | 1.07E-09 | 5.90E-10 | 2.80E-09 | | |
| 3.98E-12 | 5.78E-11 | 1.05E-09 | 1.05E-09 | 5.75E-10 | 2.73E-09 | | |
| 3.88E-12 | 5.64E-11 | 1.02E-09 | 1.02E-09 | 5.61E-10 | 2.66E-09 | | |
| 3.79E-12 | 5.50E-11 | 9.95E-10 | 9.95E-10 | 5.47E-10 | 2.60E-09 | | |
| 3.69E-12 | 5.36E-11 | 9.70E-10 | 9.70E-10 | 5.33E-10 | 2.53E-09 | | |
| 3.60E-12 | 5.23E-11 | 9.47E-10 | 9.47E-10 | 5.20E-10 | 2.47E-09 | | |
| 3.51E-12 | 5.10E-11 | 9.24E-10 | 9.24E-10 | 5.08E-10 | 2.41E-09 | | |
| 3.43E-12 | 4.99E-11 | 9.02E-10 | 9.02E-10 | 4.96E-10 | 2.35E-09 | | |
| 3.35E-12 | 4.87E-11 | 8.81E-10 | 8.81E-10 | 4.85E-10 | 2.30E-09 | | |
| 3.28E-12 | 4.76E-11 | 8.61E-10 | 8.61E-10 | 4.75E-10 | 2.25E-09 | | |
| 3.21E-12 | 4.66E-11 | 8.43E-10 | 8.43E-10 | 4.64E-10 | 2.20E-09 | | |
| 3.14E-12 | 4.56E-11 | 8.25E-10 | 8.25E-10 | 4.54E-10 | 2.15E-09 | | |
| 3.08E-12 | 4.47E-11 | 8.10E-10 | 8.10E-10 | 4.45E-10 | 2.11E-09 | | |
| 3.02E-12 | 4.39E-11 | 7.95E-10 | 7.95E-10 | 4.57E-10 | 2.07E-09 | | |
| 2.97E-12 | 4.52E-11 | 7.81E-10 | 7.81E-10 | 4.29E-10 | 2.04E-09 | | |
| 2.92E-12 | 4.24E-11 | 7.67E-10 | 7.67E-10 | 4.22E-10 | 2.00E-09 | | |
| 2.88E-12 | 4.18E-11 | 7.56E-10 | 7.56E-10 | 4.15E-10 | 1.97E-09 | | |
| 2.84E-12 | 4.12E-11 | 7.45E-10 | 7.45E-10 | 4.10E-10 | 1.94E-09 | | |
| 2.80E-12 | 4.06E-11 | 7.55E-10 | 7.35E-10 | 4.04E-10 | 1.92E-09 | | |
| 2.76E-12 | 4.01E-11 | 7.25E-10 | 7.25E-10 | 3.99E-10 | 1.89E-09 | | |
| 2.72E-12 | 3.95E-11 | 7.16E-10 | 7.16E-10 | 3.93E-10 | 1.87E-09 | | |
| 2.69E-12 | 3.91E-11 | 7.07E-10 | 7.07E-10 | 3.89E-10 | 1.84E-09 | | |
| 2.66E-12 | 3.86E-11 | 6.99E-10 | 6.99E-10 | 3.84E-10 | 1.82E-09 | | |
| 2.63E-12 | 3.81E-11 | 6.90E-10 | 6.90E-10 | 3.79E-10 | 1.80E-09 | | |
| 2.60E-12 | 3.77E-11 | 6.83E-10 | 6.83E-10 | 3.75E-10 | 1.78E-09 | | |
| 2.57E-12 | 3.73E-11 | 6.74E-10 | 6.74E-10 | 3.71E-10 | 1.76E-09 | | |
| 3.79E-12 | 5.50E-11 | 9.95E-10 | 9.95E-10 | 5.47E-10 | 2.60E-09 | | |
| 3.91E-12 | 5.68E-11 | 1.03E-09 | 1.03E-09 | 5.65E-10 | 2.68E-09 | | |
| 4.04E-12 | 5.87E-11 | 1.06E-09 | 1.06E-09 | 5.84E-10 | 2.77E-09 | | |
| 4.18E-12 | 6.06E-11 | 1.10E-09 | 1.10E-09 | 6.03E-10 | 2.86E-09 | | |
| 4.32E-12 | 6.27E-11 | 1.14E-09 | 1.14E-09 | 6.24E-10 | 2.96E-09 | | |
| 4.48E-12 | 6.50E-11 | 1.18E-09 | 1.18E-09 | 6.47E-10 | 3.07E-09 | | |
| 4.64E-12 | 6.74E-11 | 1.22E-09 | 1.22E-09 | 6.70E-10 | 3.18E-09 | | |
| 4.81E-12 | 6.99E-11 | 1.26E-09 | 1.26E-09 | 6.95E-10 | 3.30E-09 | | |
| 4.99E-12 | 7.25E-11 | 1.31E-09 | 1.31E-09 | 7.21E-10 | 3.42E-09 | | |
| 5.19E-12 | 7.53E-11 | 1.36E-09 | 1.36E-09 | 7.50E-10 | 3.56E-09 | | |
| 5.40E-12 | 7.88E-11 | 1.42E-09 | 1.42E-09 | 7.80E-10 | 3.70E-09 | | |
| 5.62E-12 | 8.16E-11 | 1.48E-09 | 1.48E-09 | 8.12E-10 | 3.85E-09 | | |
| 5.86E-12 | 8.50E-11 | 1.54E-09 | 1.54E-09 | 8.46E-10 | 4.01E-09 | | |
| 6.11E-12 | 8.87E-11 | 1.61E-09 | 1.61E-09 | 8.83E-10 | 4.19E-09 | | |
| 6.38E-12 | 9.26E-11 | 1.68E-09 | 1.68E-09 | 9.21E-10 | 4.37E-09 | | |
| 6.87E-12 | 9.68E-11 | 1.75E-09 | 1.75E-09 | 9.63E-10 | 4.57E-09 | | |
| 6.97E-12 | 1.01E-10 | 1.83E-09 | 1.83E-09 | 1.01E-09 | 4.78E-09 | | |
| 7.29E-12 | 1.06E-10 | 1.92E-09 | 1.92E-09 | 1.05E-09 | 5.00E-09 | | |

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|---|---|---|---|---|---|---|---|
| 5.80E-12 | 8.39E-11 | 1.25E-09 | 1.25E-09 | 6.18E-10 | 3.21E-09 | | |
| 6.09E-12 | 8.81E-11 | 1.31E-09 | 1.31E-09 | 6.49E-10 | 3.36E-09 | | |
| 6.38E-12 | 9.23E-11 | 1.57E-09 | 1.37E-09 | 6.80E-10 | 3.53E-09 | | |
| 6.69E-12 | 9.67E-11 | 1.44E-09 | 1.44E-09 | 7.13E-10 | 3.70E-09 | | |
| 7.00E-12 | 1.01E-10 | 1.51E-09 | 1.51E-09 | 7.46E-10 | 3.87E-09 | | |
| 7.32E-12 | 1.06E-10 | 1.57E-09 | 

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|---|---|---|---|---|---|---|---|---|
| 1295 | 258326.2 | 4082831 | 4.99E-11 | 7.22E-10 | 1.28E-08 | 1.28E-08 | 7.11E-09 | 3.34E-08 |
| 1296 | 258358.9 | 4082840 | 5.25E-11 | 7.60E-10 | 1.34E-08 | 1.34E-08 | 7.48E-09 | 2.51E-08 |
| 1297 | 258381.7 | 4083848 | 5.53E-11 | 8.00E-10 | 1.41E-08 | 1.41E-08 | 7.88E-09 | 3.70E-08 |
| 1298 | 258404.4 | 4083857 | 5.84E-11 | 8.44E-10 | 1.49E-08 | 1.49E-08 | 8.31E-09 | 3.90E-08 |
| 1299 | 258427.1 | 4082865 | 6.17E-11 | 8.92E-10 | 1.58E-08 | 1.58E-08 | 8.78E-09 | 4.12E-08 |
| 1300 | 258449.8 | 4082872 | 6.52E-11 | 9.43E-10 | 1.67E-08 | 1.67E-08 | 9.29E-09 | 4.26E-08 |
| 1301 | 258472.5 | 4083882 | 6.90E-11 | 9.98E-10 | 1.76E-08 | 1.76E-08 | 9.83E-09 | 4.62E-08 |
| 1302 | 258495.3 | 4083890 | 7.30E-11 | 1.06E-09 | 1.87E-08 | 1.87E-08 | 1.04E-08 | 4.88E-08 |
| 1303 | 258518 | 4083899 | 7.73E-11 | 1.12E-09 | 1.97E-08 | 1.97E-08 | 1.10E-08 | 5.17E-08 |
| 1304 | 258540.7 | 4083907 | 8.18E-11 | 1.18E-09 | 2.09E-08 | 2.09E-08 | 1.16E-08 | 5.47E-08 |
| 1305 | 258563.4 | 4082916 | 8.65E-11 | 1.25E-09 | 2.21E-08 | 2.21E-08 | 1.22E-08 | 5.78E-08 |
| 1306 | 258586.1 | 4083924 | 9.14E-11 | 1.32E-09 | 2.33E-08 | 2.33E-08 | 1.30E-08 | 6.11E-08 |
| 1307 | 258608.9 | 4083932 | 9.65E-11 | 1.40E-09 | 2.46E-08 | 2.46E-08 | 1.37E-08 | 6.45E-08 |
| 1308 | 258631.6 | 4083941 | 1.02E-10 | 1.47E-09 | 2.60E-08 | 2.60E-08 | 1.45E-08 | 6.80E-08 |
| 1309 | 258654.3 | 4083949 | 1.07E-10 | 1.55E-09 | 2.74E-08 | 2.74E-08 | 1.53E-08 | 7.16E-08 |
| 1310 | 258677 | 4083958 | 1.13E-10 | 1.63E-09 | 2.88E-08 | 2.88E-08 | 1.60E-08 | 7.53E-08 |
| 1311 | 258699.7 | 4083966 | 1.18E-10 | 1.71E-09 | 3.02E-08 | 3.02E-08 | 1.68E-08 | 7.91E-08 |
| 1312 | 258722.5 | 4083974 | 1.24E-10 | 1.79E-09 | 3.17E-08 | 3.17E-08 | 1.77E-08 | 8.29E-08 |
| 1313 | 258745.2 | 4083983 | 1.30E-10 | 1.88E-09 | 3.31E-08 | 3.31E-08 | 1.85E-08 | 8.67E-08 |
| 1314 | 258767.9 | 4083991 | 1.35E-10 | 1.96E-09 | 3.46E-08 | 3.46E-08 | 1.93E-08 | 9.06E-08 |
| 1315 | 258790.6 | 4084000 | 1.41E-10 | 2.04E-09 | 3.60E-08 | 3.60E-08 | 2.01E-08 | 9.44E-08 |
| 1316 | 258813.3 | 4084008 | 1.47E-10 | 2.12E-09 | 3.75E-08 | 3.75E-08 | 2.09E-08 | 9.81E-08 |
| 1317 | 258836.1 | 4084016 | 1.52E-10 | 2.20E-09 | 3.89E-08 | 3.89E-08 | 2.17E-08 | 1.02E-07 |
| 1318 | 258858.8 | 4084025 | 1.58E-10 | 2.28E-09 | 4.03E-08 | 4.03E-08 | 2.24E-08 | 1.05E-07 |
| 1219 | 258881.5 | 4084033 | 1.63E-10 | 2.36E-09 | 4.16E-08 | 4.16E-08 | 2.32E-08 | 1.09E-07 |
| 1220 | 258904.2 | 4084042 | 1.68E-10 | 2.43E-09 | 4.29E-08 | 4.29E-08 | 2.39E-08 | 1.12E-07 |
| 1221 | 258926.9 | 4084050 | 1.73E-10 | 2.50E-09 | 4.41E-08 | 4.41E-08 | 2.46E-08 | 1.15E-07 |
| 1322 | 258949.7 | 4084059 | 1.77E-10 | 2.55E-09 | 4.51E-08 | 4.51E-08 | 2.51E-08 | 1.18E-07 |
| 1323 | 258972.4 | 4084067 | 1.80E-10 | 2.61E-09 | 4.61E-08 | 4.61E-08 | 2.57E-08 | 1.21E-07 |
| 1324 | 258995.1 | 4084075 | 1.84E-10 | 2.66E-09 | 4.70E-08 | 4.70E-08 | 2.62E-08 | 1.22E-07 |
| 1325 | 259017.8 | 4084084 | 1.87E-10 | 2.71E-09 | 4.78E-08 | 4.78E-08 | 2.67E-08 | 1.25E-07 |
| 1226 | 259040.5 | 4084092 | 1.90E-10 | 2.75E-09 | 4.85E-08 | 4.85E-08 | 2.71E-08 | 1.27E-07 |
| 1227 | 259062.3 | 4084101 | 1.92E-10 | 2.78E-09 | 4.91E-08 | 4.91E-08 | 2.74E-08 | 1.28E-07 |
| 1228 | 259086 | 4084109 | 1.94E-10 | 2.80E-09 | 4.95E-08 | 4.95E-08 | 2.76E-08 | 1.30E-07 |
| 1229 | 259118.7 | 4084139 | 2.01E-10 | 2.90E-09 | 5.13E-08 | 5.13E-08 | 2.68E-08 | 1.34E-07 |
| 1230 | 259128.7 | 4084162 | 2.06E-10 | 2.96E-09 | 5.26E-08 | 5.26E-08 | 2.93E-08 | 1.38E-07 |
| 1231 | 259138.7 | 4084164 | 2.11E-10 | 3.05E-09 | 5.38E-08 | 5.38E-08 | 3.00E-08 | 1.41E-07 |
| 1332 | 259148.6 | 4084206 | 2.15E-10 | 3.11E-09 | 5.49E-08 | 5.49E-08 | 3.06E-08 | 1.44E-07 |
| 1333 | 259158.6 | 4084228 | 2.18E-10 | 3.16E-09 | 5.57E-08 | 5.57E-08 | 3.11E-08 | 1.46E-07 |
| 1334 | 259168.6 | 4084250 | 2.21E-10 | 3.20E-09 | 5.64E-08 | 5.64E-08 | 3.15E-08 | 1.48E-07 |
| 1335 | 259178.6 | 4084272 | 2.23E-10 | 3.22E-09 | 5.69E-08 | 5.69E-08 | 3.17E-08 | 1.49E-07 |
| 1336 | 259188.6 | 4084294 | 2.24E-10 | 3.24E-09 | 5.72E-08 | 5.72E-08 | 3.19E-08 | 1.50E-07 |
| 1337 | 259198.6 | 4084316 | 2.24E-10 | 3.24E-09 | 5.73E-08 | 5.73E-08 | 3.19E-08 | 1.50E-07 |
| 1338 | 259208.6 | 4084338 | 2.24E-10 | 3.24E-09 | 5.71E-08 | 5.71E-08 | 3.19E-08 | 1.50E-07 |
| 1229 | 259218.5 | 4084360 | 2.22E-10 | 3.22E-09 | 5.68E-08 | 5.68E-08 | 3.17E-08 | 1.49E-07 |
| 1340 | 259228.5 | 4084382 | 2.20E-10 | 2.19E-09 | 5.63E-08 | 5.63E-08 | 2.14E-08 | 1.47E-07 |
| 1341 | 259238.5 | 4084404 | 2.16E-10 | 2.15E-09 | 5.56E-08 | 5.56E-08 | 2.10E-08 | 1.45E-07 |
| 1342 | 259248.5 | 4084426 | 2.15E-10 | 3.11E-09 | 5.49E-08 | 5.49E-08 | 3.06E-08 | 1.44E-07 |
| 1343 | 259258.5 | 4084449 | 2.11E-10 | 3.05E-09 | 5.39E-08 | 5.39E-08 | 3.01E-08 | 1.41E-07 |
| 1344 | 259268.5 | 4084471 | 2.07E-10 | 2.99E-09 | 5.28E-08 | 5.28E-08 | 2.94E-08 | 1.38E-07 |
| 1345 | 259278.5 | 4084493 | 2.02E-10 | 2.92E-09 | 5.16E-08 | 5.16E-08 | 2.68E-08 | 1.35E-07 |
| 1346 | 259288.5 | 4084515 | 1.97E-10 | 2.85E-09 | 5.03E-08 | 5.03E-08 | 2.80E-08 | 1.32E-07 |
| 1347 | 259298.4 | 4084537 | 1.92E-10 | 2.77E-09 | 4.89E-08 | 4.89E-08 | 2.73E-08 | 1.28E-07 |
| 1348 | 259308.4 | 4084559 | 1.68E-10 | 2.69E-09 | 4.75E-08 | 4.75E-08 | 2.65E-08 | 1.24E-07 |
| 1349 | 259318.4 | 4084581 | 1.80E-10 | 2.61E-09 | 4.61E-08 | 4.61E-08 | 2.57E-08 | 1.21E-07 |
| 1350 | 259328.4 | 4084603 | 1.75E-10 | 2.52E-09 | 4.46E-08 | 4.46E-08 | 2.49E-08 | 1.17E-07 |
| 1251 | 259338.4 | 4084625 | 1.68E-10 | 2.44E-09 | 4.30E-08 | 4.30E-08 | 2.40E-08 | 1.12E-07 |
| 1352 | 259348.4 | 4084647 | 1.62E-10 | 2.35E-09 | 4.14E-08 | 4.14E-08 | 2.31E-08 | 1.08E-07 |
| 1353 | 259358.4 | 4084669 | 1.56E-10 | 2.25E-09 | 2.98E-08 | 2.98E-08 | 2.22E-08 | 1.04E-07 |
| 1254 | 259368.3 | 4084691 | 1.49E-10 | 2.16E-09 | 2.81E-08 | 2.81E-08 | 2.12E-08 | 9.97E-08 |
| 1255 | 259378.3 | 4084713 | 1.43E-10 | 2.06E-09 | 2.65E-08 | 2.65E-08 | 2.03E-08 | 9.54E-08 |
| 1256 | 259388.3 | 4084735 | 1.27E-10 | 1.97E-09 | 2.49E-08 | 2.49E-08 | 1.94E-08 | 9.12E-08 |
| 1357 | 259298.3 | 4084758 | 1.31E-10 | 1.89E-09 | 3.34E-08 | 2.34E-08 | 1.68E-08 | 8.73E-08 |
| 1358 | 259408.3 | 4084780 | 1.25E-10 | 1.81E-09 | 2.20E-08 | 2.20E-08 | 1.78E-08 | 8.37E-08 |
| 1359 | 259418.3 | 4084802 | 1.20E-10 | 1.74E-09 | 2.06E-08 | 2.06E-08 | 1.71E-08 | 8.02E-08 |
| 1360 | 259428.3 | 4084824 | 1.15E-10 | 1.67E-09 | 2.94E-08 | 2.94E-08 | 1.64E-08 | 7.70E-08 |
| 1361 | 259438.2 | 4084846 | 1.11E-10 | 1.60E-09 | 2.82E-08 | 2.82E-08 | 1.57E-08 | 7.40E-08 |
| 1362 | 259448.2 | 4084868 | 1.06E-10 | 1.54E-09 | 2.71E-08 | 2.71E-08 | 1.51E-08 | 7.10E-08 |
| 1363 | 258213.5 | 4083623 | 4.76E-11 | 6.88E-10 | 1.22E-08 | 1.22E-08 | 6.78E-09 | 2.18E-08 |
| 1364 | 258289.2 | 4085824 | 4.62E-11 | 6.68E-10 | 1.18E-08 | 1.18E-08 | 6.58E-09 | 2.09E-08 |
| 1365 | 258264.8 | 4083625 | 4.48E-11 | 6.48E-10 | 1.15E-08 | 1.15E-08 | 6.38E-09 | 2.00E-08 |
| 1366 | 258240.5 | 4083636 | 4.35E-11 | 6.20E-10 | 1.11E-08 | 1.11E-08 | 6.20E-09 | 2.91E-08 |
| 1367 | 258216.2 | 4083637 | 4.22E-11 | 6.11E-10 | 1.08E-08 | 1.08E-08 | 6.02E-09 | 2.83E-08 |
| 1368 | 266191.8 | 4083828 | 4.10E-11 | 5.93E-10 | 1.05E-08 | 1.05E-08 | 5.84E-09 | 2.74E-08 |
| 1369 | 258167.5 | 4083829 | 3.98E-11 | 5.75E-10 | 1.02E-08 | 1.02E-08 | 5.66E-09 | 2.66E-08 |
| 1370 | 258143.2 | 4083830 | 3.86E-11 | 5.58E-10 | 9.85E-09 | 9.85E-09 | 5.49E-09 | 2.58E-08 |
| 1371 | 258118.8 | 4083831 | 3.74E-11 | 5.40E-10 | 9.54E-09 | 9.54E-09 | 5.32E-09 | 2.50E-08 |
| 1372 | 258094.5 | 4083832 | 3.62E-11 | 5.23E-10 | 9.24E-09 | 9.24E-09 | 5.15E-09 | 2.42E-08 |
| 1373 | 258070.2 | 4083823 | 3.50E-11 | 5.07E-10 | 8.95E-09 | 8.95E-09 | 4.99E-09 | 2.34E-08 |
| 1374 | 258045.9 | 4082834 | 3.40E-11 | 4.91E-10 | 8.67E-09 | 8.67E-09 | 4.84E-09 | 2.27E-08 |
| 1375 | 258021.5 | 4083835 | 3.29E-11 | 4.76E-10 | 6.40E-09 | 8.40E-09 | 4.68E-09 | 2.20E-08 |
| 1376 | 257997.2 | 4083836 | 3.19E-11 | 4.61E-10 | 8.15E-09 | 8.15E-09 | 4.54E-09 | 2.13E-08 |
| 1377 | 257972.9 | 4083837 | 3.09E-11 | 4.47E-10 | 7.90E-09 | 7.90E-09 | 4.40E-09 | 2.07E-08 |
| 1378 | 257948.5 | 4083838 | 3.00E-11 | 4.34E-10 | 7.67E-09 | 7.67E-09 | 4.28E-09 | 2.01E-08 |
| 1379 | 257924.2 | 4083829 | 2.92E-11 | 4.22E-10 | 7.46E-09 | 7.46E-09 | 4.16E-09 | 1.95E-08 |
| 1280 | 257899.9 | 4083840 | 2.84E-11 | 4.11E-10 | 7.26E-09 | 7.26E-09 | 4.05E-09 | 1.90E-08 |
| 1281 | 257875.5 | 4083841 | 2.77E-11 | 4.00E-10 | 7.07E-09 | 7.07E-09 | 3.94E-09 | 1.85E-08 |
| 1382 | 257851.2 | 4083842 | 2.70E-11 | 3.91E-10 | 6.90E-09 | 8.90E-09 | 3.85E-09 | 1.81E-08 |
| 1383 | 257826.9 | 4083843 | 2.64E-11 | 3.82E-10 | 6.75E-09 | 8.75E-09 | 3.76E-09 | 1.77E-08 |
| 1384 | 257802.5 | 4083844 | 2.59E-11 | 2.74E-10 | 6.60E-09 | 6.60E-09 | 3.68E-09 | 1.73E-08 |
| 1385 | 257778.2 | 4083645 | 2.54E-11 | 2.67E-10 | 6.48E-09 | 6.48E-09 | 3.61E-09 | 1.70E-08 |
| 1386 | 257753.9 | 4083846 | 2.49E-11 | 2.60E-10 | 6.36E-09 | 6.36E-09 | 3.55E-09 | 1.67E-08 |
| 1387 | 257729.5 | 4083847 | 2.45E-11 | 3.54E-10 | 6.25E-09 | 6.25E-09 | 3.49E-09 | 1.64E-08 |
| 1388 | 257705.2 | 4083848 | 2.41E-11 | 2.48E-10 | 6.15E-09 | 8.15E-09 | 3.42E-09 | 1.61E-08 |
| 1389 | 257680.9 | 4083649 | 2.37E-11 | 3.43E-10 | 6.06E-09 | 6.06E-09 | 3.38E-09 | 1.59E-08 |
| 1390 | 257656.5 | 4083650 | 2.34E-11 | 3.38E-10 | 5.98E-09 | 5.98E-09 | 3.33E-09 | 1.56E-08 |
| 1391 | 257622.2 | 4083851 | 2.31E-11 | 3.24E-10 | 5.90E-09 | 5.90E-09 | 3.29E-09 | 1.54E-08 |
| 1392 | 257607.9 | 4083852 | 2.28E-11 | 3.30E-10 | 5.82E-09 | 5.82E-09 | 3.24E-09 | 1.52E-08 |
| 1393 | 257583.5 | 4083853 | 2.25E-11 | 3.25E-10 | 5.75E-09 | 5.75E-09 | 3.20E-09 | 1.50E-08 |
| 1394 | 257559.2 | 4083854 | 2.22E-11 | 3.21E-10 | 5.67E-09 | 5.67E-09 | 3.16E-09 | 1.48E-08 |
| 1395 | 257534.9 | 4083855 | 2.19E-11 | 3.17E-10 | 5.59E-09 | 5.59E-09 | 3.12E-09 | 1.46E-08 |
| 1396 | 257510.6 | 4083856 | 2.16E-11 | 3.12E-10 | 5.52E-09 | 5.52E-09 | 3.08E-09 | 1.44E-08 |
| 1397 | 258327.7 | 4083631 | 3.38E-11 | 4.89E-10 | 8.64E-09 | 8.64E-09 | 4.82E-09 | 2.26E-08 |
| 1298 | 238350 | 4083640 | 3.51E-11 | 5.08E-10 | 8.96E-09 | 8.98E-09 | 5.00E-09 | 2.35E-08 |
| 1299 | 258372.4 | 4083648 | 3.63E-11 | 5.29E-10 | 9.33E-09 | 9.33E-09 | 5.20E-09 | 2.44E-08 |
| 1400 | 258394.8 | 4083656 | 3.81E-11 | 5.50E-10 | 9.72E-09 | 9.72E-09 | 5.42E-09 | 2.54E-08 |
| 1401 | 258417.2 | 4083665 | 3.97E-11 | 5.74E-10 | 1.01E-08 | 1.01E-08 | 5.65E-09 | 2.65E-08 |
| 1402 | 258439.5 | 4083673 | 4.14E-11 | 5.99E-10 | 1.06E-08 | 1.06E-08 | 5.90E-09 | 2.77E-08 |
| 1403 | 258461.9 | 4083681 | 4.22E-11 | 6.27E-10 | 1.11E-08 | 1.11E-08 | 6.17E-09 | 2.90E-08 |
| 1404 | 258484.3 | 4083689 | 4.53E-11 | 6.56E-10 | 1.16E-08 | 1.16E-08 | 6.46E-09 | 3.03E-08 |
| 1405 | 258506.7 | 4083698 | 4.75E-11 | 6.87E-10 | 1.21E-08 | 1.21E-08 | 6.77E-09 | 3.18E-08 |
| 1406 | 258529 | 4083706 | 4.99E-11 | 7.21E-10 | 1.27E-08 | 1.27E-08 | 7.10E-09 | 3.33E-08 |
| 1407 | 258551.4 | 4083714 | 5.23E-11 | 7.57E-10 | 1.34E-08 | 1.34E-08 | 7.45E-09 | 2.50E-08 |
| 1408 | 258573.8 | 4083723 | 5.50E-11 | 7.95E-10 | 1.40E-08 | 1.40E-08 | 7.83E-09 | 2.68E-08 |
| 1409 | 258596.2 | 4083731 | 5.78E-11 | 8.36E-10 | 1.48E-08 | 1.48E-08 | 8.23E-09 | 3.87E-08 |
| 1410 | 258618.5 | 4083739 | 6.07E-11 | 8.79E-10 | 1.55E-08 | 1.55E-08 | 8.65E-09 | 4.06E-08 |
| 1411 | 258640.9 | 4083747 | 6.36E-11 | 9.23E-10 | 1.63E-08 | 1.62E-08 | 9.09E-09 | 4.27E-08 |
| 1412 | 258663.3 | 4083756 | 6.70E-11 | 9.70E-10 | 1.71E-08 | 1.71E-08 | 9.55E-09 | 4.48E-08 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 7.58E-12 | 1.10E-10 | 1.99E-09 | 1.99E-09 | 1.09E-09 | 5.20E-09 | |
| 7.97E-12 | 1.16E-10 | 2.10E-09 | 2.10E-09 | 1.15E-09 | 5.47E-09 | |
| 8.40E-12 | 1.22E-10 | 2.21E-09 | 2.21E-09 | 1.21E-09 | 5.76E-09 | |
| 8.86E-12 | 1.29E-10 | 2.33E-09 | 2.33E-09 | 1.28E-09 | 6.07E-09 | |
| 9.36E-12 | 1.36E-10 | 2.46E-09 | 2.46E-09 | 1.35E-09 | 6.42E-09 | |
| 9.90E-12 | 1.44E-10 | 2.60E-09 | 2.60E-09 | 1.43E-09 | 6.78E-09 | |
| 1.05E-11 | 1.52E-10 | 2.75E-09 | 2.75E-09 | 1.51E-09 | 7.18E-09 | |
| 1.11E-11 | 1.61E-10 | 2.91E-09 | 2.91E-09 | 1.60E-09 | 7.60E-09 | |
| 1.17E-11 | 1.70E-10 | 3.08E-09 | 3.08E-09 | 1.69E-09 | 8.04E-09 | |
| 1.24E-11 | 1.80E-10 | 3.26E-09 | 3.26E-09 | 1.79E-09 | 8.51E-09 | |
| 1.31E-11 | 1.91E-10 | 3.45E-09 | 3.45E-09 | 1.90E-09 | 9.00E-09 | |
| 1.39E-11 | 2.01E-10 | 3.64E-09 | 3.64E-09 | 2.00E-09 | 9.51E-09 | |
| 1.46E-11 | 2.13E-10 | 3.85E-09 | 3.85E-09 | 2.11E-09 | 1.00E-08 | |
| 1.54E-11 | 2.24E-10 | 4.06E-09 | 4.06E-09 | 2.23E-09 | 1.06E-08 | |
| 1.63E-11 | 2.36E-10 | 4.27E-09 | 4.27E-09 | 2.35E-09 | 1.11E-08 | |
| 1.71E-11 | 2.48E-10 | 4.49E-09 | 4.49E-09 | 2.47E-09 | 1.17E-08 | |
| 1.80E-11 | 2.61E-10 | 4.72E-09 | 4.72E-09 | 2.59E-09 | 1.23E-08 | |
| 1.88E-11 | 2.73E-10 | 4.94E-09 | 4.94E-09 | 2.72E-09 | 1.29E-08 | |
| 1.97E-11 | 2.86E-10 | 5.17E-09 | 5.17E-09 | 2.84E-09 | 1.35E-08 | |
| 2.06E-11 | 2.98E-10 | 5.40E-09 | 5.40E-09 | 2.97E-09 | 1.41E-08 | |
| 2.14E-11 | 3.11E-10 | 5.62E-09 | 5.63E-09 | 3.09E-09 | 1.47E-08 | |
| 2.23E-11 | 3.23E-10 | 5.85E-09 | 5.85E-09 | 3.22E-09 | 1.52E-08 | |
| 2.31E-11 | 3.35E-10 | 6.07E-09 | 6.07E-09 | 2.34E-09 | 1.58E-08 | |
| 2.39E-11 | 3.47E-10 | 6.29E-09 | 8.29E-09 | 2.46E-09 | 1.64E-08 | |
| 2.47E-11 | 3.59E-10 | 6.50E-09 | 8.50E-09 | 3.57E-09 | 1.69E-08 | |
| 2.53E-11 | 3.70E-10 | 6.69E-09 | 8.69E-09 | 3.68E-09 | 1.75E-08 | |
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| 2.68E-11 | 3.89E-10 | 7.04E-09 | 7.04E-09 | 3.87E-09 | 1.84E-08 | |
| 2.74E-11 | 3.98E-10 | 7.20E-09 | 7.20E-09 | 3.96E-09 | 1.88E-08 | |
| 2.79E-11 | 4.06E-10 | 7.34E-09 | 7.34E-09 | 4.04E-09 | 1.91E-08 | |
| 2.84E-11 | 4.13E-10 | 7.47E-09 | 7.47E-09 | 4.11E-09 | 1.95E-08 | |
| 2.88E-11 | 4.19E-10 | 7.58E-09 | 7.58E-09 | 4.16E-09 | 1.98E-08 | |
| 2.97E-11 | 4.23E-10 | 7.68E-09 | 7.66E-09 | 4.21E-09 | 2.00E-08 | |
| 2.94E-11 | 4.27E-10 | 7.73E-09 | 7.73E-09 | 4.25E-09 | 2.02E-08 | |
| 3.05E-11 | 4.42E-10 | 8.00E-09 | 8.00E-09 | 4.40E-09 | 2.09E-08 | |
| 3.13E-11 | 4.54E-10 | 8.21E-09 | 8.21E-09 | 4.52E-09 | 2.14E-08 | |
| 3.20E-11 | 4.64E-10 | 8.40E-09 | 8.40E-09 | 4.62E-09 | 2.19E-08 | |
| 3.26E-11 | 4.73E-10 | 8.57E-09 | 6.57E-09 | 4.71E-09 | 2.23E-08 | |
| 3.31E-11 | 4.81E-10 | 8.70E-09 | 8.70E-09 | 4.79E-09 | 2.27E-08 | |
| 3.35E-11 | 4.87E-10 | 8.81E-09 | 8.81E-09 | 4.84E-09 | 2.30E-08 | |
| 3.38E-11 | 4.91E-10 | 8.89E-09 | 8.89E-09 | 4.89E-09 | 2.32E-08 | |
| 3.40E-11 | 4.94E-10 | 8.93E-09 | 8.93E-09 | 4.91E-09 | 2.33E-08 | |
| 3.40E-11 | 4.94E-10 | 8.94E-09 | 8.94E-09 | 4.92E-09 | 2.33E-08 | |
| 3.39E-11 | 4.93E-10 | 8.92E-09 | 8.92E-09 | 4.90E-09 | 2.33E-08 | |
| 3.38E-11 | 4.90E-10 | 8.87E-09 | 8.87E-09 | 4.88E-09 | 2.31E-08 | |
| 3.34E-11 | 4.85E-10 | 8.79E-09 | 8.79E-09 | 4.82E-09 | 2.29E-08 | |
| 3.30E-11 | 4.79E-10 | 8.68E-09 | 8.68E-09 | 4.77E-09 | 2.26E-08 | |
| 3.26E-11 | 4.74E-10 | 8.57E-09 | 8.57E-09 | 4.71E-09 | 2.24E-08 | |
| 3.20E-11 | 4.63E-10 | 8.42E-09 | 8.42E-09 | 4.63E-09 | 2.20E-08 | |
| 3.14E-11 | 4.55E-10 | 8.24E-09 | 8.24E-09 | 4.53E-09 | 2.15E-08 | |
| 3.06E-11 | 4.45E-10 | 8.05E-09 | 8.05E-09 | 4.43E-09 | 2.10E-08 | |
| 2.98E-11 | 4.34E-10 | 7.85E-09 | 7.85E-09 | 4.32E-09 | 2.05E-08 | |
| 2.91E-11 | 4.22E-10 | 7.64E-09 | 7.64E-09 | 4.20E-09 | 1.99E-08 | |
| 2.82E-11 | 4.10E-10 | 7.42E-09 | 7.42E-09 | 4.08E-09 | 1.94E-08 | |
| 2.74E-11 | 3.98E-10 | 7.20E-09 | 7.20E-09 | 3.96E-09 | 1.88E-08 | |
| 2.63E-11 | 3.85E-10 | 6.96E-09 | 6.96E-09 | 3.83E-09 | 1.82E-08 | |
| 2.56E-11 | 3.71E-10 | 6.72E-09 | 6.72E-09 | 3.69E-09 | 1.75E-08 | |
| 2.46E-11 | 3.57E-10 | 6.47E-09 | 6.47E-09 | 3.56E-09 | 1.69E-08 | |
| 2.36E-11 | 3.43E-10 | 6.21E-09 | 6.21E-09 | 3.41E-09 | 1.63E-08 | |
| 2.26E-11 | 3.29E-10 | 5.95E-09 | 5.95E-09 | 3.27E-09 | 1.55E-08 | |
| 2.17E-11 | 3.14E-10 | 5.69E-09 | 5.69E-09 | 3.13E-09 | 1.48E-08 | |
| 2.07E-11 | 2.01E-10 | 5.44E-09 | 5.44E-09 | 2.99E-09 | 1.42E-08 | |
| 1.98E-11 | 2.88E-10 | 5.21E-09 | 5.21E-09 | 2.86E-09 | 1.36E-08 | |
| 1.90E-11 | 2.76E-10 | 4.99E-09 | 4.99E-09 | 2.74E-09 | 1.30E-08 | |
| 1.82E-11 | 2.64E-10 | 4.79E-09 | 4.79E-09 | 2.63E-09 | 1.25E-08 | |
| 1.75E-11 | 2.54E-10 | 4.59E-09 | 4.59E-09 | 2.53E-09 | 1.20E-08 | |
| 1.68E-11 | 2.44E-10 | 4.41E-09 | 4.41E-09 | 2.42E-09 | 1.15E-08 | |
| 1.61E-11 | 2.34E-10 | 4.23E-09 | 4.23E-09 | 2.33E-09 | 1.10E-08 | |
| 7.22E-12 | 1.05E-10 | 1.90E-09 | 1.90E-09 | 1.04E-09 | 4.95E-09 | |
| 7.01E-12 | 1.02E-10 | 1.84E-09 | 1.84E-09 | 1.01E-09 | 4.80E-09 | |
| 6.80E-12 | 9.88E-11 | 1.79E-09 | 1.79E-09 | 9.83E-10 | 4.66E-09 | |
| 6.61E-12 | 9.59E-11 | 1.74E-09 | 1.74E-09 | 9.54E-10 | 4.53E-09 | |
| 6.41E-12 | 9.31E-11 | 1.69E-09 | 1.69E-09 | 9.27E-10 | 4.40E-09 | |
| 6.22E-12 | 9.03E-11 | 1.63E-09 | 1.63E-09 | 8.99E-10 | 4.26E-09 | |
| 6.04E-12 | 8.76E-11 | 1.59E-09 | 1.59E-09 | 8.72E-10 | 4.14E-09 | |
| 5.85E-12 | 8.50E-11 | 1.54E-09 | 1.54E-09 | 8.45E-10 | 4.01E-09 | |
| 5.67E-12 | 8.23E-11 | 1.49E-09 | 1.49E-09 | 8.19E-10 | 2.89E-09 | |
| 5.49E-12 | 7.97E-11 | 1.44E-09 | 1.44E-09 | 7.92E-10 | 2.76E-09 | |
| 5.32E-12 | 7.72E-11 | 1.40E-09 | 1.40E-09 | 7.68E-10 | 3.65E-09 | |
| 5.15E-12 | 7.48E-11 | 1.35E-09 | 1.35E-09 | 7.44E-10 | 3.52E-09 | |
| 4.99E-12 | 7.25E-11 | 1.31E-09 | 1.31E-09 | 7.21E-10 | 3.42E-09 | |
| 4.84E-12 | 7.03E-11 | 1.27E-09 | 1.27E-09 | 8.99E-10 | 3.32E-09 | |
| 4.69E-12 | 6.81E-11 | 1.23E-09 | 1.23E-09 | 6.78E-10 | 2.22E-09 | |
| 4.56E-12 | 6.62E-11 | 1.20E-09 | 1.20E-09 | 6.59E-10 | 3.12E-09 | |
| 4.43E-12 | 6.42E-11 | 1.16E-09 | 1.16E-09 | 6.40E-10 | 3.04E-09 | |
| 4.31E-12 | 6.26E-11 | 1.12E-09 | 1.13E-09 | 6.23E-10 | 2.96E-09 | |
| 4.20E-12 | 6.10E-11 | 1.10E-09 | 1.10E-09 | 6.07E-10 | 2.88E-09 | |
| 4.10E-12 | 5.95E-11 | 1.08E-09 | 1.08E-09 | 5.92E-10 | 2.81E-09 | |
| 4.01E-12 | 5.82E-11 | 1.05E-09 | 1.05E-09 | 5.79E-10 | 2.75E-09 | |
| 2.92E-12 | 5.70E-11 | 1.03E-09 | 1.03E-09 | 5.67E-10 | 2.69E-09 | |
| 2.85E-12 | 5.59E-11 | 1.01E-09 | 1.01E-09 | 5.56E-10 | 2.64E-09 | |
| 3.78E-12 | 5.49E-11 | 9.93E-10 | 9.93E-10 | 5.46E-10 | 2.59E-09 | |
| 3.72E-12 | 5.39E-11 | 9.76E-10 | 9.76E-10 | 5.37E-10 | 2.53E-09 | |
| 3.66E-12 | 5.31E-11 | 9.60E-10 | 9.60E-10 | 5.26E-10 | 2.51E-09 | |
| 3.60E-12 | 5.23E-11 | 9.47E-10 | 9.47E-10 | 5.20E-10 | 2.47E-09 | |
| 2.55E-12 | 5.16E-11 | 9.32E-10 | 9.33E-10 | 5.13E-10 | 2.43E-09 | |
| 3.51E-12 | 5.09E-11 | 9.21E-10 | 9.21E-10 | 5.07E-10 | 2.40E-09 | |
| 3.46E-12 | 5.02E-11 | 9.09E-10 | 9.09E-10 | 5.00E-10 | 2.37E-09 | |
| 3.41E-12 | 4.96E-11 | 8.97E-10 | 8.97E-10 | 4.93E-10 | 2.34E-09 | |
| 3.37E-12 | 4.89E-11 | 8.85E-10 | 8.85E-10 | 4.87E-10 | 2.31E-09 | |
| 3.32E-12 | 4.82E-11 | 8.73E-10 | 8.73E-10 | 4.80E-10 | 2.28E-09 | |
| 3.28E-12 | 4.76E-11 | 8.61E-10 | 8.61E-10 | 4.73E-10 | 2.25E-09 | |
| 5.13E-12 | 7.45E-11 | 1.35E-09 | 1.35E-09 | 7.42E-10 | 3.52E-09 | |
| 5.33E-12 | 7.74E-11 | 1.40E-09 | 1.40E-09 | 7.71E-10 | 3.66E-09 | |
| 5.55E-12 | 8.05E-11 | 1.46E-09 | 1.46E-09 | 8.01E-10 | 3.80E-09 | |
| 5.78E-12 | 8.39E-11 | 1.52E-09 | 1.52E-09 | 8.34E-10 | 3.96E-09 | |
| 6.03E-12 | 8.75E-11 | 1.58E-09 | 1.58E-09 | 8.70E-10 | 4.13E-09 | |
| 6.29E-12 | 9.13E-11 | 1.65E-09 | 1.63E-09 | 9.09E-10 | 4.31E-09 | |
| 6.58E-12 | 9.55E-11 | 1.73E-09 | 1.73E-09 | 9.50E-10 | 4.51E-09 | |
| 6.88E-12 | 9.99E-11 | 1.81E-09 | 1.81E-09 | 9.94E-10 | 4.72E-09 | |
| 7.21E-12 | 1.05E-10 | 1.90E-09 | 1.90E-09 | 1.04E-09 | 4.95E-09 | |
| 7.57E-12 | 1.10E-10 | 1.99E-09 | 1.99E-09 | 1.09E-09 | 5.19E-09 | |
| 7.94E-12 | 1.15E-10 | 2.09E-09 | 2.09E-09 | 1.15E-09 | 5.45E-09 | |
| 8.35E-12 | 1.21E-10 | 2.19E-09 | 2.19E-09 | 1.21E-09 | 5.72E-09 | |
| 8.77E-12 | 1.77E-10 | 2.31E-09 | 2.31E-09 | 1.27E-09 | 6.01E-09 | |
| 9.22E-12 | 1.34E-10 | 2.42E-09 | 2.42E-09 | 1.33E-09 | 6.32E-09 | |
| 9.69E-12 | 1.41E-10 | 2.55E-09 | 2.55E-09 | 1.40E-09 | 6.64E-09 | |
| 1.02E-11 | 1.48E-10 | 2.67E-09 | 2.67E-09 | 1.47E-09 | 6.97E-09 | |

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|---|---|---|---|---|---|---|
| 4.12E-12 | 5.95E-11 | 8.86E-10 | 8.86E-10 | 4.39E-10 | 2.27E-09 | |
| 4.33E-12 | 6.26E-11 | 9.32E-10 | 9.32E-10 | 4.61E-10 | 2.39E-09 | |
| 4.56E-12 | 6.60E-11 | 9.82E-10 | 9.82E-10 | 4.86E-10 | 2.52E-09 | |
| 4.81E-12 | 6.96E-11 | 1.04E-09 | 1.04E-09 | 5.13E-10 | 2.66E-09 | |
| 5.08E-12 | 7.35E-11 | 1.09E-09 | 1.09E-09 | 5.42E-10 | 2.81E-09 | |
| 5.38E-12 | 7.77E-11 | 1.16E-09 | 1.16E-09 | 5.72E-10 | 2.97E-09 | |
| 5.69E-12 | 8.23E-11 | 1.22E-09 | 1.22E-09 | 6.06E-10 | 2.14E-09 | |
| 6.02E-12 | 8.71E-11 | 1

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1177 | 258183.9 | 4084229 | 1.17E-10 | 1.70E-09 | 3.00E-08 | 3.00E-08 | 1.67E-08 | 7.84E-08 | 1.78E-11 | 2.58E-10 | 4.68E-09 | 4.68E-09 | 2.57E-09 | 1.22E-08 | 9.67E-12 | 1.40E-10 | 2.08E-09 | 2.08E-09 | 1.03E-09 | 5.34E-09 |
| 1176 | 258159.6 | 4084230 | 1.12E-10 | 1.61E-09 | 2.85E-08 | 2.85E-08 | 1.59E-08 | 7.46E-08 | 1.69E-11 | 2.46E-10 | 4.45E-09 | 4.45E-09 | 2.45E-09 | 1.16E-08 | 9.20E-12 | 1.33E-10 | 1.98E-09 | 1.98E-09 | 9.80E-10 | 5.08E-09 |
| 1179 | 258135.5 | 4084231 | 1.06E-10 | 1.53E-09 | 2.71E-08 | 2.71E-08 | 1.51E-08 | 7.09E-08 | 1.61E-11 | 2.34E-10 | 4.23E-09 | 4.23E-09 | 2.33E-09 | 1.10E-08 | 8.75E-12 | 1.26E-10 | 1.88E-09 | 1.88E-09 | 9.32E-10 | 4.83E-09 |
| 1180 | 258110.9 | 4084232 | 1.01E-10 | 1.46E-09 | 2.58E-08 | 2.58E-08 | 1.44E-08 | 6.74E-08 | 1.33E-11 | 2.22E-10 | 4.02E-09 | 4.02E-09 | 2.21E-09 | 1.05E-08 | 8.31E-12 | 1.20E-10 | 1.79E-09 | 1.79E-09 | 8.86E-10 | 4.59E-09 |
| 1181 | 258086.6 | 4084233 | 9.59E-11 | 1.39E-09 | 2.43E-08 | 2.45E-08 | 1.36E-08 | 6.41E-08 | 1.45E-11 | 2.11E-10 | 3.82E-09 | 3.82E-09 | 2.10E-09 | 9.97E-09 | 7.90E-12 | 1.14E-10 | 1.70E-09 | 1.70E-09 | 8.42E-10 | 4.37E-09 |
| 1182 | 258062.3 | 4084234 | 9.11E-11 | 1.32E-09 | 2.33E-08 | 2.33E-08 | 1.30E-08 | 6.09E-08 | 1.38E-11 | 2.01E-10 | 3.63E-09 | 3.63E-09 | 2.00E-09 | 9.48E-09 | 7.51E-12 | 1.09E-10 | 1.62E-09 | 1.62E-09 | 8.00E-10 | 4.15E-09 |
| 1183 | 258037.9 | 4084235 | 8.67E-11 | 1.25E-09 | 2.21E-08 | 2.21E-08 | 1.23E-08 | 5.80E-08 | 1.52E-11 | 1.91E-10 | 3.46E-09 | 3.46E-09 | 1.90E-09 | 9.02E-09 | 7.14E-12 | 1.03E-10 | 1.54E-09 | 1.54E-09 | 7.61E-10 | 3.95E-09 |
| 1184 | 258013.6 | 4084236 | 8.25E-11 | 1.19E-09 | 2.11E-08 | 2.11E-08 | 1.17E-08 | 5.52E-08 | 1.25E-11 | 1.82E-10 | 3.29E-09 | 3.29E-09 | 1.81E-09 | 8.58E-09 | 6.80E-12 | 9.83E-11 | 1.46E-09 | 1.46E-09 | 7.24E-10 | 3.76E-09 |
| 1185 | 257989.5 | 4084237 | 7.86E-11 | 1.14E-09 | 2.01E-08 | 2.01E-08 | 1.12E-08 | 5.26E-08 | 1.19E-11 | 1.73E-10 | 3.13E-09 | 3.13E-09 | 1.72E-09 | 8.18E-09 | 6.48E-12 | 9.37E-11 | 1.39E-09 | 1.39E-09 | 6.90E-10 | 3.58E-09 |
| 1186 | 257963 | 4084238 | 7.50E-11 | 1.08E-09 | 1.92E-08 | 1.92E-08 | 1.07E-08 | 5.01E-08 | 1.14E-11 | 1.65E-10 | 2.99E-09 | 2.99E-09 | 1.64E-09 | 7.80E-09 | 6.16E-12 | 8.94E-11 | 1.33E-09 | 1.33E-09 | 6.58E-10 | 3.41E-09 |
| 1187 | 257940.6 | 4084239 | 7.16E-11 | 1.04E-09 | 1.83E-08 | 1.63E-08 | 1.02E-08 | 4.79E-08 | 1.09E-11 | 1.38E-10 | 2.85E-09 | 2.85E-09 | 1.57E-09 | 7.45E-09 | 5.90E-12 | 8.33E-11 | 1.27E-09 | 1.27E-09 | 6.29E-10 | 3.26E-09 |
| 1188 | 257916.3 | 4084240 | 6.64E-11 | 9.90E-10 | 1.75E-08 | 1.73E-08 | 9.75E-09 | 4.58E-08 | 1.04E-11 | 1.51E-10 | 2.73E-09 | 2.73E-09 | 1.50E-09 | 7.12E-09 | 5.64E-12 | 8.16E-11 | 1.21E-09 | 1.21E-09 | 6.01E-10 | 3.12E-09 |
| 1189 | 257692 | 4084241 | 6.55E-11 | 9.48E-10 | 1.67E-08 | 1.67E-08 | 9.53E-09 | 4.38E-08 | 9.95E-12 | 1.44E-10 | 2.61E-09 | 2.61E-09 | 1.44E-09 | 6.82E-09 | 5.40E-12 | 7.61E-11 | 1.18E-09 | 1.16E-09 | 5.76E-10 | 2.98E-09 |
| 1190 | 257857.6 | 4084242 | 6.28E-11 | 9.09E-10 | 1.60E-08 | 1.60E-08 | 6.95E-09 | 4.20E-08 | 9.54E-12 | 1.38E-10 | 2.51E-09 | 2.51E-09 | 1.38E-09 | 6.54E-09 | 5.18E-12 | 7.49E-11 | 1.11E-09 | 1.11E-09 | 5.52E-10 | 2.86E-09 |
| 1191 | 257843.5 | 4084243 | 6.03E-11 | 8.73E-10 | 1.54E-08 | 1.54E-08 | 8.59E-09 | 4.03E-08 | 9.16E-12 | 1.53E-10 | 2.41E-09 | 2.41E-09 | 1.52E-09 | 6.28E-09 | 4.97E-12 | 7.19E-11 | 1.07E-09 | 1.07E-09 | 5.30E-10 | 2.75E-09 |
| 1192 | 257619 | 4084244 | 5.61E-11 | 8.40E-10 | 1.48E-08 | 1.48E-08 | 8.27E-09 | 3.88E-08 | 6.81E-12 | 1.28E-10 | 2.52E-09 | 2.32E-09 | 1.27E-09 | 6.04E-09 | 4.79E-12 | 6.92E-11 | 1.03E-09 | 1.03E-09 | 5.10E-10 | 2.64E-09 |
| 1193 | 257794.6 | 4084245 | 5.59E-11 | 8.09E-10 | 1.43E-08 | 1.43E-08 | 7.96E-09 | 3.74E-08 | 6.49E-12 | 1.23E-10 | 2.23E-09 | 2.23E-09 | 1.23E-09 | 5.82E-09 | 4.61E-12 | 6.67E-11 | 9.92E-10 | 9.92E-10 | 4.91E-10 | 2.55E-09 |
| 1194 | 237770.3 | 4084248 | 5.39E-11 | 7.60E-10 | 1.38E-08 | 1.36E-08 | 7.68E-09 | 3.61E-08 | 6.19E-12 | 1.19E-10 | 2.15E-09 | 2.15E-09 | 1.18E-09 | 5.61E-09 | 4.45E-12 | 6.43E-11 | 9.57E-10 | 9.57E-10 | 4.74E-10 | 2.46E-09 |
| 1195 | 257746 | 4084247 | 5.21E-11 | 7.53E-10 | 1.33E-08 | 1.33E-08 | 7.42E-09 | 3.48E-08 | 7.90E-12 | 1.15E-10 | 2.08E-09 | 2.08E-09 | 1.14E-09 | 5.42E-09 | 4.29E-12 | 6.21E-11 | 9.24E-10 | 9.24E-10 | 4.57E-10 | 2.37E-09 |
| 1196 | 257721.6 | 4084248 | 5.03E-11 | 7.28E-10 | 1.29E-08 | 1.29E-08 | 7.17E-09 | 3.37E-08 | 7.64E-12 | 1.11E-10 | 2.01E-09 | 2.01E-09 | 1.10E-09 | 5.24E-09 | 4.15E-12 | 6.00E-11 | 8.93E-10 | 8.93E-10 | 4.42E-10 | 2.29E-09 |
| 1197 | 257697.5 | 4084249 | 4.87E-11 | 7.04E-10 | 1.24E-08 | 1.24E-08 | 8.93E-09 | 3.26E-08 | 7.39E-12 | 1.07E-10 | 1.94E-09 | 1.94E-09 | 1.07E-09 | 5.07E-09 | 4.01E-12 | 5.81E-11 | 8.64E-10 | 8.64E-10 | 4.28E-10 | 2.22E-09 |
| 1198 | 257673 | 4084250 | 4.72E-11 | 6.83E-10 | 1.21E-08 | 1.21E-08 | 6.72E-09 | 3.16E-08 | 7.16E-12 | 1.04E-10 | 1.88E-09 | 1.88E-09 | 1.03E-09 | 4.91E-09 | 3.89E-12 | 5.63E-11 | 8.37E-10 | 8.37E-10 | 4.14E-10 | 2.13E-09 |
| 1199 | 257648.6 | 4084231 | 4.57E-11 | 6.61E-10 | 1.17E-08 | 1.17E-08 | 6.51E-09 | 3.06E-08 | 6.94E-12 | 1.01E-10 | 1.82E-09 | 1.82E-09 | 1.00E-09 | 4.76E-09 | 3.77E-12 | 3.45E-11 | 8.11E-10 | 8.11E-10 | 4.02E-10 | 2.08E-09 |
| 1200 | 257624.5 | 4084252 | 4.44E-11 | 6.42E-10 | 1.13E-08 | 1.13E-08 | 6.32E-09 | 2.97E-08 | 6.74E-12 | 9.78E-11 | 1.77E-09 | 1.77E-09 | 9.73E-10 | 4.62E-09 | 3.66E-12 | 5.29E-11 | 7.88E-10 | 7.88E-10 | 3.90E-10 | 2.02E-09 |
| 1201 | 257600 | 4084253 | 4.31E-11 | 6.23E-10 | 1.10E-08 | 1.10E-08 | 6.13E-09 | 2.88E-08 | 6.54E-12 | 9.49E-11 | 1.72E-09 | 1.77E-09 | 9.45E-10 | 4.48E-09 | 3.53E-12 | 5.14E-11 | 7.64E-10 | 7.64E-10 | 3.78E-10 | 1.96E-09 |
| 1202 | 257575.6 | 4084254 | 4.19E-11 | 6.06E-10 | 1.07E-08 | 1.07E-08 | 5.96E-09 | 2.80E-08 | 6.35E-12 | 9.23E-11 | 1.67E-09 | 1.67E-09 | 9.18E-10 | 4.36E-09 | 3.45E-12 | 4.99E-11 | 7.43E-10 | 7.43E-10 | 3.66E-10 | 1.91E-09 |
| 1203 | 257551.3 | 4084255 | 4.07E-11 | 5.89E-10 | 1.04E-08 | 1.04E-08 | 5.80E-09 | 2.77E-08 | 6.18E-12 | 8.97E-11 | 1.62E-09 | 1.62E-09 | 6.93E-10 | 4.24E-09 | 3.36E-12 | 4.86E-11 | 7.23E-10 | 7.23E-10 | 3.58E-10 | 1.86E-09 |
| 1204 | 257527 | 4084256 | 3.96E-11 | 5.73E-10 | 1.01E-08 | 1.01E-08 | 5.65E-09 | 2.65E-08 | 6.02E-12 | 8.74E-11 | 1.58E-09 | 1.58E-09 | 8.69E-10 | 4.12E-09 | 3.27E-12 | 4.73E-11 | 7.03E-10 | 7.03E-10 | 3.48E-10 | 1.81E-09 |
| 1205 | 258344.2 | 4084031 | 8.40E-11 | 1.22E-09 | 2.15E-08 | 2.15E-08 | 1.20E-08 | 5.62E-08 | 1.28E-11 | 1.85E-10 | 3.35E-09 | 3.55E-09 | 1.84E-09 | 8.74E-09 | 6.93E-12 | 1.00E-10 | 1.49E-09 | 1.49E-08 | 7.36E-10 | 3.83E-09 |
| 1206 | 258366.6 | 4084039 | 8.95E-11 | 1.29E-09 | 2.29E-08 | 2.29E-08 | 1.27E-08 | 5.98E-08 | 1.36E-11 | 1.97E-10 | 3.57E-09 | 3.57E-09 | 1.96E-09 | 9.51E-09 | 7.38E-12 | 1.07E-10 | 1.59E-09 | 1.59E-09 | 7.86E-10 | 4.08E-09 |
| 1207 | 258389 | 4084048 | 9.53E-11 | 1.38E-09 | 2.43E-08 | 2.43E-08 | 1.36E-08 | 6.37E-08 | 1.45E-11 | 2.10E-10 | 3.80E-09 | 3.80E-09 | 2.09E-09 | 9.92E-09 | 7.86E-12 | 1.14E-10 | 1.69E-09 | 1.69E-09 | 8.37E-10 | 4.34E-09 |
| 1208 | 258411.5 | 4084056 | 1.02E-10 | 1.47E-09 | 2.59E-08 | 2.59E-08 | 1.45E-08 | 6.79E-08 | 1.54E-11 | 2.24E-10 | 4.05E-09 | 4.05E-09 | 2.23E-09 | 1.06E-08 | 8.37E-12 | 1.21E-10 | 1.80E-09 | 1.80E-09 | 8.92E-10 | 4.62E-09 |
| 1209 | 258433.9 | 4084064 | 1.08E-10 | 1.56E-09 | 2.76E-08 | 2.76E-08 | 1.54E-08 | 7.23E-08 | 1.64E-11 | 2.38E-10 | 4.31E-09 | 4.51E-09 | 2.37E-09 | 1.13E-08 | 8.91E-12 | 1.29E-10 | 1.92E-09 | 1.92E-09 | 9.50E-10 | 4.92E-09 |
| 1210 | 258456.3 | 4084073 | 1.15E-10 | 1.66E-09 | 2.94E-08 | 2.94E-08 | 1.64E-08 | 7.69E-08 | 1.75E-11 | 2.54E-10 | 4.59E-09 | 4.59E-09 | 2.52E-09 | 1.20E-08 | 9.49E-12 | 1.37E-10 | 2.04E-09 | 2.04E-09 | 1.01E-09 | 5.24E-09 |
| 1211 | 258478.8 | 4084081 | 1.22E-10 | 1.77E-09 | 3.12E-08 | 3.12E-08 | 1.74E-08 | 8.18E-08 | 1.86E-11 | 2.70E-10 | 4.88E-09 | 4.88E-09 | 2.68E-09 | 1.27E-08 | 1.01E-11 | 1.46E-10 | 2.17E-09 | 2.17E-09 | 1.07E-09 | 5.57E-09 |
| 1212 | 258501.2 | 4084089 | 1.30E-10 | 1.88E-09 | 3.32E-08 | 3.52E-08 | 1.85E-08 | 8.68E-08 | 1.97E-11 | 2.86E-10 | 5.16E-09 | 5.18E-09 | 2.85E-09 | 1.33E-08 | 1.07E-11 | 1.55E-10 | 2.30E-09 | 2.30E-09 | 1.14E-09 | 5.91E-09 |
| 1213 | 258523.6 | 4084098 | 1.38E-10 | 1.99E-09 | 3.52E-08 | 3.52E-08 | 1.96E-08 | 9.21E-08 | 2.09E-11 | 3.03E-10 | 5.49E-09 | 5.49E-09 | 3.02E-09 | 1.43E-08 | 1.13E-11 | 1.64E-10 | 2.44E-09 | 2.44E-09 | 1.21E-09 | 6.27E-09 |
| 1214 | 258546.1 | 4084106 | 1.46E-10 | 2.11E-09 | 3.72E-08 | 3.72E-08 | 2.07E-08 | 9.74E-08 | 2.21E-11 | 3.21E-10 | 5.81E-09 | 5.81E-09 | 3.19E-09 | 1.52E-08 | 1.20E-11 | 1.74E-10 | 2.59E-09 | 2.59E-09 | 1.28E-09 | 6.64E-09 |
| 1215 | 258568.5 | 4084114 | 1.54E-10 | 2.23E-09 | 3.93E-08 | 3.93E-08 | 2.19E-08 | 1.03E-07 | 2.34E-11 | 3.39E-10 | 6.14E-09 | 6.14E-09 | 3.57E-09 | 1.60E-08 | 1.27E-11 | 1.83E-10 | 2.73E-09 | 2.73E-09 | 1.35E-09 | 7.01E-09 |
| 1216 | 256590.9 | 4084123 | 1.62E-10 | 2.35E-09 | 4.14E-08 | 4.14E-08 | 2.31E-08 | 1.08E-07 | 2.46E-11 | 3.57E-10 | 6.47E-09 | 6.47E-09 | 3.56E-09 | 1.69E-08 | 1.34E-11 | 1.93E-10 | 2.88E-09 | 2.88E-09 | 1.42E-09 | 7.39E-09 |
| 1217 | 258613.4 | 4084131 | 1.71E-10 | 2.47E-09 | 4.36E-08 | 4.36E-08 | 2.43E-08 | 1.14E-07 | 2.59E-11 | 3.76E-10 | 6.80E-09 | 6.80E-09 | 3.74E-09 | 1.77E-08 | 1.41E-11 | 2.03E-10 | 3.03E-09 | 3.03E-09 | 1.50E-09 | 7.77E-09 |
| 1218 | 258635.8 | 4084139 | 1.79E-10 | 2.59E-09 | 4.57E-08 | 4.57E-08 | 2.55E-08 | 1.20E-07 | 2.72E-11 | 3.94E-10 | 7.14E-09 | 7.14E-09 | 3.92E-09 | 1.86E-08 | 1.47E-11 | 2.13E-10 | 3.17E-09 | 3.17E-09 | 1.57E-09 | 8.15E-09 |
| 1219 | 258658.2 | 4084147 | 1.67E-10 | 2.71E-09 | 4.78E-08 | 4.78E-08 | 2.67E-08 | 1.25E-07 | 2.84E-11 | 4.13E-10 | 7.47E-09 | 7.47E-09 | 4.11E-09 | 1.95E-08 | 1.54E-11 | 2.23E-10 | 3.32E-09 | 3.32E-09 | 1.64E-09 | 6.53E-09 |
| 1220 | 258680.7 | 4084156 | 1.96E-10 | 2.83E-09 | 4.99E-08 | 4.99E-08 | 2.76E-08 | 1.51E-07 | 2.97E-11 | 4.31E-10 | 7.80E-09 | 7.80E-09 | 4.29E-09 | 2.03E-08 | 1.61E-11 | 2.33E-10 | 3.47E-09 | 3.47E-09 | 1.72E-09 | 6.90E-09 |
| 1221 | 258703.1 | 4084164 | 2.04E-10 | 2.94E-09 | 5.20E-08 | 5.20E-08 | 2.90E-08 | 1.36E-07 | 3.09E-11 | 4.49E-10 | 6.12E-09 | 6.12E-09 | 4.46E-09 | 2.12E-08 | 1.68E-11 | 2.43E-10 | 3.61E-09 | 3.61E-09 | 1.79E-09 | 9.27E-09 |
| 1222 | 258725.5 | 4084177 | 2.11E-10 | 3.06E-09 | 5.40E-08 | 3.40E-08 | 3.01E-08 | 1.41E-07 | 3.21E-11 | 4.66E-10 | 8.43E-09 | 6.43E-09 | 4.64E-09 | 2.20E-08 | 1.74E-11 | 2.52E-10 | 3.75E-09 | 3.75E-09 | 1.86E-09 | 9.63E-09 |
| 1223 | 258748 | 4084181 | 2.19E-10 | 3.17E-09 | 5.59E-08 | 5.59E-08 | 3.12E-08 | 1.46E-07 | 3.52E-11 | 4.83E-10 | 6.73E-09 | 8.73E-09 | 4.80E-09 | 2.28E-08 | 1.81E-11 | 2.61E-10 | 3.89E-09 | 3.89E-09 | 1.92E-09 | 9.98E-09 |
| 1224 | 258770.4 | 4084189 | 2.26E-10 | 3.27E-09 | 5.78E-08 | 5.78E-08 | 3.22E-08 | 1.51E-07 | 3.43E-11 | 4.99E-10 | 9.02E-09 | 9.02E-09 | 4.96E-09 | 2.33E-08 | 1.87E-11 | 2.70E-10 | 4.01E-09 | 4.01E-09 | 1.99E-09 | 1.03E-08 |
| 1225 | 258792.9 | 4084197 | 2.53E-10 | 3.37E-09 | 5.95E-08 | 5.95E-08 | 3.32E-08 | 1.56E-07 | 3.54E-11 | 5.14E-10 | 9.30E-09 | 9.30E-09 | 5.11E-09 | 2.43E-08 | 1.92E-11 | 2.78E-10 | 4.14E-09 | 4.14E-09 | 2.05E-09 | 1.06E-08 |
| 1226 | 258815.3 | 4084206 | 2.39E-10 | 3.46E-09 | 6.12E-08 | 6.12E-08 | 3.41E-08 | 1.60E-07 | 3.63E-11 | 5.28E-10 | 9.55E-09 | 9.55E-09 | 5.25E-09 | 2.49E-08 | 1.97E-11 | 2.86E-10 | 4.23E-09 | 4.25E-09 | 2.10E-09 | 1.09E-08 |
| 1227 | 258837.7 | 4084214 | 2.45E-10 | 3.55E-09 | 6.27E-08 | 6.27E-08 | 3.49E-08 | 1.64E-07 | 3.72E-11 | 5.41E-10 | 9.78E-09 | 9.78E-09 | 5.38E-09 | 2.55E-08 | 2.02E-11 | 2.92E-10 | 4.33E-09 | 4.35E-09 | 2.15E-09 | 1.12E-08 |
| 1226 | 258860.2 | 4084222 | 2.30E-10 | 3.62E-09 | 6.40E-08 | 6.40E-08 | 3.57E-08 | 1.67E-07 | 3.80E-11 | 3.52E-10 | 9.99E-09 | 9.99E-09 | 5.49E-09 | 2.61E-08 | 2.06E-11 | 2.99E-10 | 4.44E-09 | 4.44E-09 | 2.20E-09 | 1.14E-08 |
| 1229 | 258881.6 | 4084230 | 2.55E-10 | 3.68E-09 | 6.51E-08 | 6.51E-08 | 3.63E-08 | 1.70E-07 | 3.57E-11 | 3.61E-10 | 1.02E-08 | 1.02E-08 | 5.58E-09 | 2.65E-08 | 2.10E-11 | 3.04E-10 | 4.52E-09 | 4.52E-09 | 2.24E-09 | 1.16E-08 |
| 1230 | 258905 | 4084239 | 2.59E-10 | 3.74E-09 | 6.60E-08 | 6.60E-08 | 3.68E-08 | 1.73E-07 | 3.92E-11 | 3.70E-10 | 1.03E-08 | 1.03E-08 | 5.67E-09 | 2.69E-08 | 2.13E-11 | 3.08E-10 | 4.59E-09 | 4.59E-09 | 2.27E-09 | 1.18E-08 |
| 1231 | 258927.5 | 4084247 | 2.61E-10 | 3.78E-09 | 6.67E-08 | 6.67E-08 | 3.72E-08 | 1.75E-07 | 3.97E-11 | 5.76E-10 | 1.04E-08 | 1.04E-08 | 5.73E-09 | 2.77E-08 | 2.15E-11 | 3.12E-10 | 4.64E-09 | 4.64E-09 | 2.29E-09 | 1.19E-08 |
| 1232 | 258949.9 | 4084255 | 2.63E-10 | 3.81E-09 | 6.72E-08 | 6.72E-08 | 3.73E-08 | 1.76E-07 | 3.99E-11 | 3.80E-10 | 1.05E-08 | 1.05E-08 | 5.77E-09 | 2.74E-08 | 2.17E-11 | 3.14E-10 | 4.67E-09 | 4.67E-09 | 2.31E-09 | 1.20E-08 |
| 1233 | 258982.2 | 4084286 | 2.72E-10 | 3.94E-09 | 6.95E-08 | 6.95E-08 | 3.88E-08 | 1.82E-07 | 4.13E-11 | 6.00E-10 | 1.09E-08 | 1.09E-08 | 5.97E-09 | 2.83E-08 | 2.24E-11 | 3.24E-10 | 4.63E-09 | 4.83E-09 | 2.39E-09 | 1.24E-08 |
| 1234 | 258992.1 | 4084307 | 2.79E-10 | 4.04E-09 | 7.13E-08 | 7.13E-08 | 3.98E-08 | 1.87E-07 | 4.24E-11 | 6.15E-10 | 1.11E-08 | 1.11E-08 | 6.12E-09 | 2.91E-08 | 2.30E-11 | 3.33E-10 | 4.96E-09 | 4.96E-09 | 2.45E-09 | 1.27E-08 |
| 1235 | 259001.9 | 4084329 | 2.85E-10 | 4.13E-09 | 7.29E-08 | 7.29E-08 | 4.06E-08 | 1.91E-07 | 4.53E-11 | 6.29E-10 | 1.14E-08 | 1.14E-08 | 6.25E-09 | 2.97E-08 | 2.35E-11 | 3.40E-10 | 5.06E-09 | 5.06E-09 | 2.51E-09 | 1.30E-08 |
| 1236 | 259011.8 | 4084351 | 2.90E-10 | 4.20E-09 | 7.41E-08 | 7.41E-08 | 4.13E-08 | 1.94E-07 | 4.41E-11 | 6.40E-10 | 1.16E-08 | 1.16E-08 | 6.36E-09 | 3.01E-08 | 2.39E-11 | 3.46E-10 | 5.15E-09 | 5.15E-09 | 2.55E-09 | 1.52E-08 |
| 1237 | 259021.6 | 4084373 | 2.94E-10 | 4.26E-09 | 7.51E-08 | 7.51E-08 | 4.19E-08 | 1.97E-07 | 4.46E-11 | 6.48E-10 | 1.17E-08 | 1.17E-08 | 6.45E-09 | 3.06E-08 | 2.42E-11 | 3.51E-10 | 5.22E-09 | 5.22E-09 | 2.58E-09 | 1.34E-08 |
| 1238 | 259031.5 | 4084394 | 2.97E-10 | 4.29E-09 | 7.58E-08 | 7.58E-08 | 4.23E-08 | 1.98E-07 | 4.50E-11 | 6.54E-10 | 1.18E-08 | 1.18E-08 | 6.51E-09 | 3.09E-08 | 2.45E-11 | 3.54E-10 | 3.27E-09 | 5.27E-09 | 2.61E-09 | 1.35E-08 |
| 1239 | 259041.4 | 4084416 | 2.98E-10 | 4.31E-09 | 7.62E-08 | 7.52E-08 | 4.25E-08 | 1.99E-07 | 4.53E-11 | 6.57E-10 | 1.19E-08 | 1.19E-08 | 6.54E-09 | 3.10E-08 | 2.46E-11 | 3.55E-10 | 3.29E-09 | 5.29E-09 | 2.62E-09 | 1.36E-08 |
| 1240 | 259051.2 | 4084438 | 2.96E-10 | 4.51E-09 | 7.61E-08 | 7.61E-08 | 4.15E-08 | 1.99E-07 | 4.52E-11 | 6.57E-10 | 1.19E-08 | 1.19E-08 | 6.54E-09 | 3.10E-08 | 2.46E-11 | 3.55E-10 | 3.29E-09 | 5.29E-09 | 2.62E-09 | 1.36E-08 |
| 1241 | 259061.1 | 4084460 | 2.97E-10 | 4.29E-09 | 7.58E-08 | 7.58E-08 | 4.23E-08 | 1.98E-07 | 4.50E-11 | 6.54E-10 | 1.18E-08 | 1.18E-08 | 6.51E-09 | 3.09E-08 | 2.45E-11 | 3.54E-10 | 5.27E-09 | 5.27E-09 | 2.61E-09 | 1.55E-08 |
| 1242 | 259070.9 | 4084482 | 2.94E-10 | 4.25E-09 | 7.51E-08 | 7.51E-08 | 4.19E-08 | 1.97E-07 | 4.46E-11 | 6.46E-10 | 1.17E-08 | 1.17E-08 | 6.45E-09 | 3.06E-08 | 2.42E-11 | 3.51E-10 | 5.22E-09 | 5.22E-09 | 2.58E-09 | 1.34E-08 |
| 1243 | 259080.8 | 4084503 | 2.90E-10 | 4.20E-09 | 7.41E-08 | 7.41E-08 | 4.13E-08 | 1.94E-07 | 4.41E-11 | 6.40E-10 | 1.16E-08 | 1.16E-08 | 6.36E-09 | 3.02E-08 | 2.39E-11 | 3.46E-10 | 5.15E-09 | 5.15E-09 | 2.55E-09 | 1.32E-08 |
| 1244 | 259090.7 | 4084525 | 2.65E-10 | 4.13E-09 | 7.29E-08 | 7.29E-08 | 4.06E-08 | 1.91E-07 | 4.33E-11 | 6.29E-10 | 1.14E-08 | 1.14E-08 | 6.25E-09 | 2.97E-08 | 2.35E-11 | 3.40E-10 | 5.06E-09 | 5.06E-09 | 2.51E-09 | 1.30E-08 |
| 1245 | 259100.5 | 4084547 | 2.79E-10 | 4.04E-09 | 7.13E-08 | 7.13E-08 | 3.98E-08 | 1.87E-07 | 4.24E-11 | 6.15E-10 | 1.11E-08 | 1.11E-08 | 6.12E-09 | 2.91E-08 | 2.30E-11 | 3.33E-10 | 4.95E-09 | 4.93E-09 | 2.43E-09 | 1.27E-08 |
| 1246 | 259110.4 | 4084569 | 2.72E-10 | 3.94E-09 | 6.95E-08 | 6.95E-08 | 3.88E-08 | 1.82E-07 | 4.13E-11 | 6.00E-10 | 1.09E-08 | 1.09E-08 | 5.97E-09 | 2.83E-08 | 2.24E-11 | 3.25E-10 | 4.83E-09 | 4.83E-09 | 2.39E-09 | 1.24E-08 |
| 1247 | 259120.2 | 4084591 | 2.65E-10 | 3.83E-09 | 6.76E-08 | 6.76E-08 | 3.77E-08 | 1.77E-07 | 4.01E-11 | 5.83E-10 | 1.05E-08 | 1.05E-08 | 5.80E-09 | 2.75E-08 | 2.18E-11 | 3.15E-10 | 4.69E-09 | 4.69E-09 | 2.32E-09 | 1.20E-08 |
| 1248 | 259130.1 | 4084612 | 2.56E-10 | 3.70E-09 | 6.54E-08 | 6.54E-08 | 3.65E-08 | 1.71E-07 | 3.89E-11 | 5.64E-10 | 1.02E-08 | 1.02E-08 | 5.62E-09 | 2.66E-08 | 2.11E-11 | 3.05E-10 | 4.54E-09 | 4.54E-09 | 2.25E-09 | 1.17E-08 |
| 1249 | 259140 | 4084634 | 2.47E-10 | 3.57E-09 | 6.31E-08 | 6.31E-08 | 3.52E-08 | 1.65E-07 | 3.75E-11 | 5.45E-10 | 9.86E-09 | 9.86E-09 | 5.42E-09 | 2.57E-08 | 2.04E-11 | 2.95E-10 | 4.39E-09 | 4.59E-09 | 2.17E-09 | 1.13E-08 |
| 1250 | 259149.6 | 4084656 | 2.38E-10 | 3.44E-09 | 6.07E-08 | 6.07E-08 | 3.39E-08 | 1.59E-07 | 3.61E-11 | 5.24E-10 | 9.48E-09 | 9.48E-09 | 5.21E-09 | 2.47E-08 | 1.96E-11 | 2.84E-10 | 4.22E-09 | 4.22E-09 | 2.09E-09 | 1.08E-08 |
| 1251 | 259159.7 | 4084678 | 2.29E-10 | 3.31E-09 | 5.84E-08 | 5.84E-08 | 3.25E-08 | 1.53E-07 | 3.47E-11 | 5.04E-10 | 9.11E-09 | 9.11E-09 | 5.01E-09 | 2.38E-08 | 1.88E-11 | 2.72E-10 | 4.06E-09 | 4.06E-09 | 2.01E-09 | 1.04E-08 |
| 1252 | 259169.6 | 4084700 | 2.19E-10 | 3.16E-09 | 5.59E-08 | 5.59E-08 | 3.11E-08 | 1.46E-07 | 3.32E-11 | 4.82E-10 | 8.72E-09 | 8.72E-09 | 4.80E-09 | 2.28E-08 | 1.80E-11 | 2.61E-10 | 3.88E-09 | 3.88E-09 | 1.92E-09 | 9.96E-09 |
| 1253 | 259179.4 | 4084721 | 2.08E-10 | 3.01E-09 | 5.52E-08 | 5.32E-08 | 2.97E-08 | 1.59E-07 | 3.16E-11 | 4.59E-10 | 8.51E-09 | 6.31E-09 | 4.37E-09 | 2.17E-08 | 1.72E-11 | 2.46E-10 | 3.70E-09 | 3.70E-09 | 1.83E-09 | 9.49E-09 |
| 1254 | 259189.3 | 4084743 | 1.98E-10 | 2.87E-09 | 5.07E-08 | 5.07E-08 | 2.82E-08 | 1.33E-07 | 3.01E-11 | 4.57E-10 | 7.91E-09 | 7.91E-09 | 4.35E-09 | 2.06E-08 | 1.64E-11 | 2.38E-10 | 3.52E-09 | 3.52E-09 | 1.74E-09 | 9.03E-09 |
| 1255 | 259199.1 | 4084765 | 1.89E-10 | 2.73E-09 | 4.82E-08 | 4.82E-08 | 2.69E-08 | 1.26E-07 | 2.86E-11 | 4.16E-10 | 7.53E-09 | 7.53E-09 | 4.14E-09 | 1.96E-08 | 1.56E-11 | 2.23E-10 | 3.35E-09 | 3.35E-09 | 1.66E-09 | 6.60E-09 |
| 1256 | 259209 | 4084787 | 1.79E-10 | 2.59E-09 | 4.57E-08 | 4.57E-08 | 2.55E-08 | 1.20E-07 | 2.71E-11 | 3.94E-10 | 7.13E-09 | 7.13E-09 | 3.92E-09 | 1.86E-08 | 1.47E-11 | 2.13E-10 | 3.17E-09 | 3.17E-09 | 1.57E-09 | 6.14E-09 |
| 1257 | 259216.9 | 4084809 | 1.70E-10 | 2.46E-09 | 4.34E-08 | 4.34E-08 | 2.42E-08 | 1.14E-07 | 2.58E-11 | 3.74E-10 | 6.77E-09 | 6.77E-09 | 3.77E-09 | 1.77E-08 | 1.40E-11 | 2.02E-10 | 3.01E-09 | 3.01E-09 | 1.49E-09 | 7.73E-09 |
| 1258 | 259228.7 | 4084830 | 1.61E-10 | 2.33E-09 | 4.12E-08 | 4.12E-08 | 2.30E-08 | 1.08E-07 | 2.45E-11 | 3.55E-10 | 6.43E-09 | 6.43E-09 | 3.54E-09 | 1.68E-08 | 1.33E-11 | 1.92E-10 | 2.86E-09 | 2.86E-09 | 1.42E-09 | 7.35E-09 |
| 1259 | 259238.6 | 4084852 | 1.53E-10 | 2.22E-09 | 3.92E-08 | 3.92E-08 | 2.18E-08 | 1.03E-07 | 2.33E-11 | 3.38E-10 | 6.12E-09 | 6.12E-09 | 3.36E-09 | 1.60E-08 | 1.26E-11 | 1.83E-10 | 2.72E-09 | 2.72E-09 | 1.33E-09 | 6.98E-09 |
| 1260 | 259248.4 | 4084874 | 1.46E-10 | 2.11E-09 | 3.72E-08 | 3.77E-08 | 2.08E-08 | 9.75E-08 | 2.21E-11 | 3.21E-10 | 5.82E-09 | 5.82E-09 | 3.20E-09 | 1.32E-08 | 1.20E-11 | 1.74E-10 | 2.59E-09 | 2.59E-09 | 1.28E-09 | 6.64E-09 |
| 1261 | 258321.7 | 4084023 | 7.89E-11 | 1.14E-09 | 2.02E-08 | 2.02E-08 | 1.12E-08 | 5.26E-08 | 1.20E-11 | 1.74E-10 | 3.15E-09 | 3.15E-09 | 1.73E-09 | 6.21E-09 | 6.31E-12 | 9.41E-11 | 1.40E-09 | 1.40E-09 | 6.93E-10 | 3.60E-09 |
| 1262 | 258297.4 | 4084034 | 7.59E-11 | 1.10E-09 | 1.94E-08 | 1.94E-08 | 1.08E-08 | 5.08E-08 | 1.15E-11 | 1.67E-10 | 3.03E-09 | 3.03E-09 | 1.66E-09 | 7.90E-09 | 6.26E-12 | 9.05E-11 | 1.33E-09 | 1.33E-09 | 6.67E-10 | 3.46E-09 |
| 1263 | 258273.1 | 4084025 | 7.51E-11 | 1.06E-09 | 1.87E-08 | 1.87E-08 | 1.04E-08 | 4.89E-08 | 1.11E-11 | 1.61E-10 | 2.91E-09 | 2.91E-09 | 1.60E-09 | 7.60E-09 | 6.02E-12 | 8.71E-11 | 1.30E-09 | 1.30E-09 | 6.42E-10 | 3.33E-09 |
| 1264 | 258248.7 | 4084026 | 7.03E-11 | 1.02E-09 | 1.80E-08 | 1.80E-08 | 1.00E-08 | 4.70E-08 | 1.07E-11 

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1059 | 258402.5 | 4084348 | 2.77E-10 | 4.00E-09 | 7.07E-08 | 7.07E-08 | 3.94E-08 | 1.85E-07 | 4.20E-11 | 6.10E-10 | 1.10E-08 | 1.10E-08 | 6.07E-09 | 2.88E-08 | 2.28E-11 | 3.30E-10 | 4.91E-09 | 4.91E-09 | 2.43E-09 | 1.26E-08 |
| 1060 | 258425.4 | 4084356 | 2.94E-10 | 4.25E-09 | 7.51E-08 | 7.51E-08 | 4.19E-08 | 1.97E-07 | 4.46E-11 | 6.48E-10 | 1.17E-08 | 1.17E-08 | 6.45E-09 | 3.06E-08 | 2.42E-11 | 3.51E-10 | 5.22E-09 | 5.22E-09 | 2.58E-09 | 1.34E-08 |
| 1061 | 258448.2 | 4084365 | 3.12E-10 | 4.51E-09 | 7.96E-08 | 7.96E-08 | 4.44E-08 | 2.08E-07 | 4.73E-11 | 6.86E-10 | 1.24E-08 | 1.24E-08 | 6.83E-09 | 3.24E-08 | 2.57E-11 | 3.71E-10 | 5.53E-09 | 5.53E-09 | 2.74E-09 | 1.42E-08 |
| 1062 | 258471 | 4084373 | 3.29E-10 | 4.76E-09 | 8.40E-08 | 8.40E-08 | 4.69E-08 | 2.20E-07 | 4.99E-11 | 7.25E-10 | 1.31E-08 | 1.31E-08 | 7.21E-09 | 3.42E-08 | 2.71E-11 | 3.92E-10 | 5.84E-09 | 5.84E-09 | 2.89E-09 | 1.50E-08 |
| 1063 | 258493.8 | 4084382 | 3.46E-10 | 5.01E-09 | 8.85E-08 | 8.85E-08 | 4.93E-08 | 2.32E-07 | 5.26E-11 | 7.63E-10 | 1.38E-08 | 1.38E-08 | 7.59E-09 | 3.60E-08 | 2.85E-11 | 4.13E-10 | 6.14E-09 | 6.14E-09 | 3.04E-09 | 1.58E-08 |
| 1064 | 258516.7 | 4084390 | 3.63E-10 | 5.26E-09 | 9.28E-08 | 9.28E-08 | 5.17E-08 | 2.43E-07 | 5.51E-11 | 8.01E-10 | 1.45E-08 | 1.45E-08 | 7.97E-09 | 3.78E-08 | 3.00E-11 | 4.33E-10 | 6.45E-09 | 6.45E-09 | 3.19E-09 | 1.65E-08 |
| 1065 | 258539.5 | 4084399 | 3.80E-10 | 5.49E-09 | 9.70E-08 | 9.70E-08 | 5.41E-08 | 2.54E-07 | 5.77E-11 | 8.37E-10 | 1.51E-08 | 1.51E-08 | 8.33E-09 | 3.95E-08 | 3.13E-11 | 4.53E-10 | 6.74E-09 | 6.74E-09 | 3.34E-09 | 1.73E-08 |
| 1066 | 258562.3 | 4084407 | 3.96E-10 | 5.72E-09 | 1.01E-07 | 1.01E-07 | 5.64E-08 | 2.65E-07 | 6.01E-11 | 8.72E-10 | 1.58E-08 | 1.56E-08 | 8.68E-09 | 4.12E-08 | 3.26E-11 | 4.72E-10 | 7.02E-09 | 7.02E-09 | 3.48E-09 | 1.80E-08 |
| 1067 | 258585.2 | 4084416 | 4.11E-10 | 5.94E-09 | 1.05E-07 | 1.05E-07 | 5.85E-08 | 2.75E-07 | 6.23E-11 | 9.05E-10 | 1.64E-08 | 1.64E-08 | 9.01E-09 | 4.27E-08 | 3.39E-11 | 4.90E-10 | 7.29E-09 | 7.29E-09 | 3.61E-09 | 1.87E-08 |
| 1068 | 258608 | 4084424 | 4.25E-10 | 6.14E-09 | 1.08E-07 | 1.08E-07 | 6.05E-08 | 2.84E-07 | 6.44E-11 | 9.36E-10 | 1.69E-08 | 1.69E-08 | 9.31E-09 | 4.42E-08 | 3.50E-11 | 5.06E-10 | 7.53E-09 | 7.53E-09 | 3.73E-09 | 1.93E-08 |
| 1069 | 258630.8 | 4084432 | 4.37E-10 | 6.32E-09 | 1.12E-07 | 1.12E-07 | 6.23E-08 | 2.92E-07 | 6.64E-11 | 9.63E-10 | 1.74E-08 | 1.74E-08 | 9.58E-09 | 4.55E-08 | 3.60E-11 | 5.21E-10 | 7.76E-09 | 7.76E-09 | 3.84E-09 | 1.99E-08 |
| 1070 | 258653.6 | 4084441 | 4.48E-10 | 6.48E-09 | 1.14E-07 | 1.14E-07 | 6.38E-08 | 3.00E-07 | 6.80E-11 | 9.88E-10 | 1.79E-08 | 1.79E-08 | 9.83E-09 | 4.66E-08 | 3.69E-11 | 5.34E-10 | 7.95E-09 | 7.95E-09 | 3.94E-09 | 2.04E-08 |
| 1071 | 258676.5 | 4084449 | 4.57E-10 | 6.62E-09 | 1.17E-07 | 1.17E-07 | 6.51E-08 | 3.06E-07 | 6.94E-11 | 1.01E-09 | 1.62E-08 | 1.82E-08 | 1.00E-08 | 4.76E-08 | 3.77E-11 | 5.45E-10 | 8.12E-09 | 8.12E-09 | 4.02E-09 | 2.08E-08 |
| 1072 | 258699.3 | 4084458 | 4.64E-10 | 6.72E-09 | 1.19E-07 | 1.19E-07 | 6.61E-08 | 3.11E-07 | 7.05E-11 | 1.02E-09 | 1.85E-08 | 1.85E-08 | 1.02E-08 | 4.83E-08 | 3.83E-11 | 5.54E-10 | 8.24E-09 | 8.24E-09 | 4.08E-09 | 2.11E-08 |
| 1073 | 258722.1 | 4084466 | 4.68E-10 | 6.77E-09 | 1.20E-07 | 1.20E-07 | 6.67E-08 | 3.13E-07 | 7.11E-11 | 1.03E-09 | 1.87E-08 | 1.87E-08 | 1.03E-08 | 4.87E-08 | 3.86E-11 | 5.58E-10 | 8.31E-09 | 8.31E-09 | 4.11E-09 | 2.13E-08 |
| 1074 | 258745 | 4084475 | 4.70E-10 | 6.79E-09 | 1.20E-07 | 1.20E-07 | 6.69E-08 | 3.14E-07 | 7.13E-11 | 1.03E-09 | 1.87E-08 | 1.87E-08 | 1.03E-08 | 4.89E-08 | 3.87E-11 | 5.60E-10 | 8.33E-09 | 8.33E-09 | 4.12E-09 | 2.14E-08 |
| 1075 | 258777.8 | 4084505 | 4.86E-10 | 7.02E-09 | 1.24E-07 | 1.24E-07 | 6.91E-08 | 3.25E-07 | 7.37E-11 | 1.07E-09 | 1.94E-08 | 1.94E-08 | 1.06E-08 | 5.05E-08 | 4.00E-11 | 5.79E-10 | 8.62E-09 | 8.62E-09 | 4.26E-09 | 2.21E-08 |
| 1076 | 258787.9 | 4084528 | 5.00E-10 | 7.23E-09 | 1.28E-07 | 1.26E-07 | 7.12E-08 | 3.34E-07 | 7.58E-11 | 1.10E-09 | 1.99E-08 | 1.99E-08 | 1.10E-08 | 5.20E-08 | 4.12E-11 | 5.96E-10 | 8.87E-09 | 8.87E-09 | 4.39E-09 | 2.28E-08 |
| 1077 | 258797.9 | 4084550 | 5.11E-10 | 7.39E-09 | 1.30E-07 | 1.30E-07 | 7.27E-08 | 3.42E-07 | 7.75E-11 | 1.13E-09 | 2.04E-08 | 2.04E-08 | 1.12E-08 | 5.31E-08 | 4.21E-11 | 6.09E-10 | 9.06E-09 | 9.06E-09 | 4.49E-09 | 2.33E-08 |
| 1078 | 258807.9 | 4084577 | 5.16E-10 | 7.50E-09 | 1.32E-07 | 1.32E-07 | 7.38E-08 | 3.47E-07 | 7.87E-11 | 1.14E-09 | 2.07E-08 | 2.07E-08 | 1.14E-08 | 5.39E-08 | 4.27E-11 | 6.18E-10 | 9.20E-09 | 9.20E-09 | 4.55E-09 | 2.36E-08 |
| 1079 | 256618 | 4084594 | 5.22E-10 | 7.55E-09 | 1.33E-07 | 1.33E-07 | 7.44E-08 | 3.49E-07 | 7.92E-11 | 1.15E-09 | 2.08E-08 | 2.08E-08 | 1.14E-08 | 5.43E-08 | 4.30E-11 | 6.23E-10 | 9.26E-09 | 9.26E-09 | 4.59E-09 | 2.38E-08 |
| 1080 | 258828 | 4084616 | 5.22E-10 | 7.55E-09 | 1.33E-07 | 1.33E-07 | 7.43E-08 | 3.49E-07 | 7.92E-11 | 1.15E-09 | 2.08E-08 | 2.08E-08 | 1.14E-08 | 5.43E-08 | 4.30E-11 | 6.22E-10 | 9.26E-09 | 9.26E-09 | 4.58E-09 | 2.38E-08 |
| 1081 | 258838 | 4084618 | 5.17E-10 | 7.48E-09 | 1.32E-07 | 1.32E-07 | 7.36E-08 | 3.46E-07 | 7.85E-11 | 1.14E-09 | 2.06E-08 | 2.06E-08 | 1.13E-08 | 5.38E-08 | 4.26E-11 | 6.17E-10 | 9.16E-09 | 9.18E-09 | 4.54E-09 | 2.36E-08 |
| 1082 | 258848.1 | 4084661 | 5.08E-10 | 7.35E-09 | 1.30E-07 | 1.30E-07 | 7.24E-08 | 3.40E-07 | 7.71E-11 | 1.12E-09 | 2.03E-08 | 2.03E-08 | 1.11E-08 | 5.39E-08 | 4.19E-11 | 6.06E-10 | 9.02E-09 | 9.02E-09 | 4.46E-09 | 2.31E-08 |
| 1083 | 258858.1 | 4084683 | 4.95E-10 | 7.16E-09 | 1.27E-07 | 1.27E-07 | 7.05E-08 | 3.31E-07 | 7.52E-11 | 1.09E-09 | 1.98E-08 | 1.98E-08 | 1.09E-08 | 5.15E-08 | 4.08E-11 | 5.91E-10 | 8.79E-09 | 8.79E-09 | 4.35E-09 | 2.26E-08 |
| 1084 | 258868.1 | 4084705 | 4.79E-10 | 6.92E-09 | 1.22E-07 | 1.22E-07 | 6.82E-08 | 3.20E-07 | 7.27E-11 | 1.05E-09 | 1.91E-08 | 1.91E-08 | 1.05E-08 | 4.98E-08 | 3.95E-11 | 5.71E-10 | 8.49E-09 | 8.49E-09 | 4.20E-09 | 2.18E-08 |
| 1085 | 258878.2 | 4084727 | 4.59E-10 | 6.64E-09 | 1.17E-07 | 1.17E-07 | 6.54E-08 | 3.07E-07 | 6.97E-11 | 1.01E-09 | 1.83E-08 | 1.83E-08 | 1.01E-08 | 4.78E-08 | 3.76E-11 | 5.47E-10 | 8.14E-09 | 6.14E-09 | 4.03E-09 | 2.09E-08 |
| 1086 | 258888.2 | 4084749 | 4.37E-10 | 6.32E-09 | 1.12E-07 | 1.12E-07 | 6.22E-08 | 2.92E-07 | 6.63E-11 | 9.63E-10 | 1.74E-08 | 1.74E-08 | 9.58E-09 | 4.55E-08 | 3.60E-11 | 5.21E-10 | 7.75E-09 | 7.75E-09 | 3.84E-09 | 1.99E-08 |
| 1087 | 258898.2 | 4084771 | 4.13E-10 | 5.98E-09 | 1.06E-07 | 1.06E-07 | 5.88E-08 | 2.76E-07 | 6.27E-11 | 9.10E-10 | 1.65E-08 | 1.65E-08 | 9.06E-09 | 4.30E-08 | 3.41E-11 | 4.93E-10 | 7.33E-09 | 7.33E-09 | 3.63E-09 | 1.88E-08 |
| 1088 | 258908.3 | 4084794 | 3.88E-10 | 5.62E-09 | 9.92E-08 | 9.92E-08 | 5.53E-08 | 2.60E-07 | 5.90E-11 | 8.56E-10 | 1.55E-08 | 1.55E-08 | 8.52E-09 | 4.04E-08 | 3.20E-11 | 4.63E-10 | 6.89E-09 | 6.89E-09 | 3.41E-09 | 1.77E-08 |
| 1089 | 258918.3 | 4084816 | 3.64E-10 | 5.26E-09 | 9.29E-08 | 9.29E-08 | 5.18E-08 | 2.43E-07 | 5.52E-11 | 8.01E-10 | 1.45E-08 | 1.45E-08 | 7.97E-09 | 3.78E-08 | 3.00E-11 | 4.34E-10 | 6.45E-09 | 6.45E-09 | 3.19E-09 | 1.68E-08 |
| 1090 | 258928.3 | 4084838 | 3.39E-10 | 4.91E-09 | 8.67E-08 | 8.67E-08 | 4.83E-08 | 2.27E-07 | 5.15E-11 | 7.48E-10 | 1.35E-08 | 1.35E-08 | 7.44E-09 | 3.53E-08 | 2.80E-11 | 4.04E-10 | 6.02E-09 | 6.02E-09 | 2.98E-09 | 1.55E-08 |
| 1091 | 258938.4 | 4084860 | 3.16E-10 | 4.57E-09 | 8.07E-08 | 8.07E-08 | 4.50E-08 | 2.11E-07 | 4.79E-11 | 6.96E-10 | 1.26E-08 | 1.26E-08 | 6.92E-09 | 3.29E-08 | 2.60E-11 | 3.77E-10 | 5.60E-09 | 5.60E-09 | 2.77E-09 | 1.44E-08 |
| 1092 | 258948.4 | 4084882 | 2.93E-10 | 4.24E-09 | 7.49E-08 | 7.49E-08 | 4.18E-08 | 1.96E-07 | 4.45E-11 | 6.47E-10 | 1.17E-08 | 1.17E-08 | 6.43E-09 | 3.05E-08 | 2.42E-11 | 3.50E-10 | 5.21E-09 | 5.21E-09 | 2.58E-09 | 1.34E-08 |
| 1093 | 258334 | 4084323 | 2.26E-10 | 3.27E-09 | 5.78E-08 | 5.78E-08 | 3.22E-08 | 1.51E-07 | 3.43E-11 | 4.99E-10 | 9.02E-09 | 9.02E-09 | 4.96E-09 | 2.35E-08 | 1.87E-11 | 2.70E-10 | 4.01E-09 | 4.01E-09 | 1.99E-09 | 1.03E-08 |
| 1094 | 258309.7 | 4084324 | 2.18E-10 | 3.15E-09 | 5.57E-08 | 5.57E-08 | 3.10E-08 | 1.46E-07 | 3.31E-11 | 4.80E-10 | 8.69E-09 | 8.69E-09 | 4.78E-09 | 2.27E-08 | 1.80E-11 | 2.60E-10 | 3.87E-09 | 3.87E-09 | 1.91E-09 | 9.93E-09 |
| 1095 | 258285.4 | 4084325 | 2.10E-10 | 3.03E-09 | 5.35E-08 | 5.35E-08 | 2.98E-08 | 1.40E-07 | 3.18E-11 | 4.62E-10 | 8.36E-09 | 8.36E-09 | 4.59E-09 | 2.18E-08 | 1.73E-11 | 2.50E-10 | 3.72E-09 | 3.72E-09 | 1.84E-09 | 9.54E-09 |
| 1096 | 258261 | 4084326 | 2.01E-10 | 2.91E-09 | 5.13E-08 | 5.13E-08 | 2.86E-08 | 1.34E-07 | 3.05E-11 | 4.43E-10 | 8.01E-09 | 8.01E-09 | 4.41E-09 | 2.09E-08 | 1.66E-11 | 2.40E-10 | 3.57E-09 | 3.57E-09 | 1.76E-09 | 9.15E-09 |
| 1097 | 258236.7 | 4084327 | 1.92E-10 | 2.78E-09 | 4.91E-08 | 4.91E-08 | 2.74E-08 | 1.29E-07 | 2.92E-11 | 4.23E-10 | 7.66E-09 | 7.66E-09 | 4.21E-09 | 2.00E-08 | 1.58E-11 | 2.29E-10 | 3.41E-09 | 3.41E-09 | 1.69E-09 | 8.75E-09 |
| 1098 | 258212.4 | 4084326 | 1.82E-10 | 2.65E-09 | 4.68E-08 | 4.68E-08 | 2.61E-08 | 1.23E-07 | 2.78E-11 | 4.04E-10 | 7.31E-09 | 7.31E-09 | 4.02E-09 | 1.91E-08 | 1.51E-11 | 2.19E-10 | 3.25E-09 | 3.25E-09 | 1.61E-09 | 8.35E-09 |
| 1099 | 258188 | 4084329 | 1.75E-10 | 2.52E-09 | 4.46E-08 | 4.46E-08 | 2.49E-08 | 1.17E-07 | 2.65E-11 | 3.85E-10 | 6.96E-09 | 6.96E-09 | 3.83E-09 | 1.82E-08 | 1.44E-11 | 2.08E-10 | 3.10E-09 | 3.10E-09 | 1.53E-09 | 7.95E-09 |
| 1100 | 258163.7 | 4084330 | 1.66E-10 | 2.40E-09 | 4.24E-08 | 4.24E-08 | 2.36E-08 | 1.11E-07 | 2.52E-11 | 3.65E-10 | 6.61E-09 | 6.81E-09 | 3.84E-09 | 1.73E-08 | 1.37E-11 | 1.96E-10 | 2.94E-09 | 2.94E-09 | 1.46E-09 | 7.55E-09 |
| 1101 | 258139.4 | 4084331 | 1.57E-10 | 2.27E-09 | 4.02E-08 | 4.02E-08 | 2.24E-08 | 1.05E-07 | 2.39E-11 | 3.47E-10 | 6.27E-09 | 6.27E-09 | 3.45E-09 | 1.64E-08 | 1.30E-11 | 1.88E-10 | 2.79E-09 | 2.79E-09 | 1.38E-09 | 7.16E-09 |
| 1102 | 258115.1 | 4084332 | 1.49E-10 | 2.15E-09 | 3.80E-08 | 3.80E-08 | 2.12E-08 | 9.96E-08 | 2.26E-11 | 3.26E-10 | 5.94E-09 | 5.94E-09 | 3.27E-09 | 1.55E-08 | 1.23E-11 | 1.78E-10 | 2.64E-09 | 2.64E-09 | 1.31E-09 | 6.78E-09 |
| 1103 | 258090.7 | 4084333 | 1.41E-10 | 2.04E-09 | 3.60E-08 | 3.60E-08 | 2.01E-08 | 9.42E-08 | 2.14E-11 | 3.10E-10 | 5.62E-09 | 5.62E-09 | 3.09E-09 | 1.47E-08 | 1.16E-11 | 1.68E-10 | 2.50E-09 | 2.50E-09 | 1.24E-09 | 6.42E-09 |
| 1104 | 258066.4 | 4084334 | 1.33E-10 | 1.93E-09 | 3.40E-08 | 3.40E-08 | 1.90E-08 | 8.91E-08 | 2.02E-11 | 2.94E-10 | 5.31E-09 | 5.31E-09 | 2.92E-09 | 1.39E-08 | 1.10E-11 | 1.59E-10 | 2.36E-09 | 2.36E-09 | 1.17E-09 | 6.07E-09 |
| 1105 | 258042.1 | 4084335 | 1.26E-10 | 1.82E-09 | 3.22E-08 | 3.22E-08 | 1.79E-08 | 8.42E-08 | 1.91E-11 | 2.77E-10 | 5.02E-09 | 5.02E-09 | 2.76E-09 | 1.31E-08 | 1.04E-11 | 1.50E-10 | 2.23E-09 | 2.23E-09 | 1.11E-09 | 5.73E-09 |
| 1106 | 258017.7 | 4084336 | 1.19E-10 | 1.72E-09 | 3.04E-08 | 3.04E-08 | 1.69E-08 | 7.96E-08 | 1.81E-11 | 2.62E-10 | 4.75E-09 | 4.75E-09 | 2.61E-09 | 1.24E-08 | 9.81E-12 | 1.42E-10 | 2.11E-09 | 2.11E-09 | 1.05E-09 | 5.42E-09 |
| 1107 | 257993.4 | 4084337 | 1.13E-10 | 1.63E-09 | 2.87E-08 | 2.87E-08 | 1.60E-08 | 7.53E-08 | 1.71E-11 | 2.48E-10 | 4.49E-09 | 4.49E-09 | 2.47E-09 | 1.17E-08 | 9.28E-12 | 1.34E-10 | 2.00E-09 | 2.00E-09 | 9.69E-10 | 5.13E-09 |
| 1108 | 257969.1 | 4084338 | 1.07E-10 | 1.54E-09 | 2.72E-08 | 2.77E-08 | 1.52E-08 | 7.12E-08 | 1.62E-11 | 2.35E-10 | 4.25E-09 | 4.25E-09 | 2.34E-09 | 1.11E-08 | 8.78E-12 | 1.27E-10 | 1.89E-09 | 1.89E-09 | 9.36E-10 | 4.85E-09 |
| 1109 | 257944.7 | 4084339 | 1.01E-10 | 1.46E-09 | 2.58E-08 | 2.58E-08 | 1.44E-08 | 6.75E-08 | 1.53E-11 | 2.22E-10 | 4.02E-09 | 4.02E-09 | 2.21E-09 | 1.05E-08 | 8.32E-12 | 1.20E-10 | 1.79E-09 | 1.79E-09 | 8.86E-10 | 4.59E-09 |
| 1110 | 257920.4 | 4084340 | 9.56E-11 | 1.38E-09 | 2.44E-08 | 2.44E-08 | 1.36E-08 | 6.40E-08 | 1.45E-11 | 2.11E-10 | 3.81E-09 | 3.81E-09 | 2.10E-09 | 9.95E-09 | 7.88E-12 | 1.14E-10 | 1.70E-09 | 1.70E-09 | 8.40E-10 | 4.36E-09 |
| 1111 | 257896.1 | 4084341 | 9.08E-11 | 1.31E-09 | 2.32E-08 | 2.32E-08 | 1.29E-08 | 6.07E-08 | 1.38E-11 | 2.00E-10 | 3.62E-09 | 3.62E-09 | 1.99E-09 | 9.44E-09 | 7.48E-12 | 1.08E-10 | 1.61E-09 | 1.61E-09 | 7.97E-10 | 4.13E-09 |
| 1112 | 257871.7 | 4084342 | 8.63E-11 | 1.25E-09 | 2.20E-08 | 2.20E-08 | 1.23E-08 | 5.77E-08 | 1.31E-11 | 1.90E-10 | 3.44E-09 | 3.44E-09 | 1.89E-09 | 8.97E-09 | 7.11E-12 | 1.03E-10 | 1.53E-09 | 1.53E-09 | 7.57E-10 | 3.93E-09 |
| 1113 | 257847.4 | 4084343 | 8.20E-11 | 1.19E-09 | 2.09E-08 | 2.09E-08 | 1.17E-08 | 5.48E-08 | 1.24E-11 | 1.81E-10 | 3.27E-09 | 3.27E-09 | 1.80E-09 | 8.53E-09 | 6.76E-12 | 9.78E-11 | 1.46E-09 | 1.46E-09 | 7.20E-10 | 3.74E-09 |
| 1114 | 257823.1 | 4084344 | 7.81E-11 | 1.13E-09 | 1.99E-08 | 1.99E-08 | 1.11E-08 | 5.22E-08 | 1.19E-11 | 1.72E-10 | 3.11E-09 | 3.11E-09 | 1.71E-09 | 8.13E-09 | 6.44E-12 | 9.31E-11 | 1.39E-09 | 1.39E-09 | 6.86E-10 | 3.56E-09 |
| 1115 | 257798.7 | 4084345 | 7.45E-11 | 1.08E-09 | 1.90E-08 | 1.90E-08 | 1.06E-08 | 4.98E-08 | 1.13E-11 | 1.64E-10 | 2.97E-09 | 2.97E-09 | 1.63E-09 | 7.75E-09 | 6.14E-12 | 8.88E-11 | 1.32E-09 | 1.32E-09 | 6.54E-10 | 3.39E-09 |
| 1116 | 257774.4 | 4084346 | 7.11E-11 | 1.03E-09 | 1.82E-08 | 1.82E-08 | 1.01E-08 | 4.75E-08 | 1.08E-11 | 1.57E-10 | 2.83E-09 | 2.83E-09 | 1.56E-09 | 7.40E-09 | 5.86E-12 | 8.48E-11 | 1.26E-09 | 1.26E-09 | 6.24E-10 | 3.24E-09 |
| 1117 | 257750.1 | 4084347 | 6.80E-11 | 9.81E-10 | 1.74E-08 | 1.74E-08 | 9.68E-09 | 4.55E-08 | 1.03E-11 | 1.50E-10 | 2.71E-09 | 2.71E-09 | 1.49E-09 | 7.07E-09 | 5.60E-12 | 8.11E-11 | 1.21E-09 | 1.21E-09 | 5.97E-10 | 3.10E-09 |
| 1118 | 257725.7 | 4084348 | 6.51E-11 | 9.42E-10 | 1.86E-08 | 1.66E-08 | 9.27E-09 | 4.36E-08 | 9.89E-12 | 1.44E-10 | 2.60E-09 | 2.60E-09 | 1.43E-09 | 6.78E-09 | 5.37E-12 | 7.77E-11 | 1.16E-09 | 1.16E-09 | 5.72E-10 | 2.97E-09 |
| 1119 | 257701.4 | 4084349 | 6.25E-11 | 9.05E-10 | 1.60E-08 | 1.60E-08 | 8.91E-09 | 4.18E-06 | 9.49E-12 | 1.38E-10 | 2.49E-09 | 2.49E-09 | 1.37E-09 | 6.51E-09 | 5.16E-12 | 7.46E-11 | 1.11E-09 | 1.11E-09 | 5.49E-10 | 2.85E-09 |
| 1120 | 257677.1 | 4084350 | 6.02E-11 | 8.70E-10 | 1.54E-08 | 1.54E-08 | 8.57E-09 | 4.02E-08 | 9.13E-12 | 1.33E-10 | 2.40E-09 | 2.40E-09 | 1.32E-09 | 6.26E-09 | 4.96E-12 | 7.17E-11 | 1.07E-09 | 1.07E-09 | 5.28E-10 | 2.74E-09 |
| 1121 | 257652.7 | 4084351 | 5.80E-11 | 8.38E-10 | 1.48E-08 | 1.46E-08 | 8.25E-09 | 3.88E-08 | 8.80E-12 | 1.28E-10 | 2.31E-09 | 2.31E-09 | 1.27E-09 | 6.03E-09 | 4.78E-12 | 6.91E-11 | 1.03E-09 | 1.03E-09 | 5.09E-10 | 2.64E-09 |
| 1122 | 257628.4 | 4084352 | 5.60E-11 | 8.10E-10 | 1.43E-08 | 1.43E-08 | 7.97E-09 | 3.74E-08 | 8.50E-12 | 1.23E-10 | 2.23E-09 | 2.23E-09 | 1.23E-09 | 5.82E-09 | 4.61E-12 | 6.67E-11 | 9.93E-10 | 9.93E-10 | 4.92E-10 | 2.55E-09 |
| 1123 | 257604.1 | 4084353 | 5.41E-11 | 7.81E-10 | 1.38E-08 | 1.38E-08 | 7.71E-09 | 3.62E-08 | 8.22E-12 | 1.19E-10 | 2.16E-09 | 2.16E-09 | 1.19E-09 | 5.63E-09 | 4.46E-12 | 6.46E-11 | 9.61E-10 | 9.61E-10 | 4.76E-10 | 2.47E-09 |
| 1124 | 257579.8 | 4084354 | 5.25E-11 | 7.59E-10 | 1.34E-08 | 1.34E-08 | 7.47E-09 | 3.51E-08 | 7.96E-12 | 1.16E-10 | 2.09E-09 | 2.09E-09 | 1.15E-09 | 5.46E-09 | 4.32E-12 | 6.25E-11 | 9.31E-10 | 9.31E-10 | 4.61E-10 | 2.39E-09 |
| 1125 | 257555.4 | 4084355 | 5.09E-11 | 7.36E-10 | 1.30E-08 | 1.30E-08 | 7.24E-09 | 3.40E-06 | 7.72E-12 | 1.12E-10 | 2.03E-09 | 2.03E-09 | 1.12E-09 | 5.29E-09 | 4.19E-12 | 6.06E-11 | 9.03E-10 | 9.03E-10 | 4.47E-10 | 2.32E-09 |
| 1126 | 257531.1 | 4084356 | 4.94E-11 | 7.15E-10 | 1.26E-08 | 1.26E-08 | 7.04E-09 | 3.30E-08 | 7.50E-12 | 1.09E-10 | 1.97E-09 | 1.97E-09 | 1.08E-09 | 5.14E-09 | 4.07E-12 | 5.89E-11 | 8.77E-10 | 8.77E-10 | 4.34E-10 | 2.25E-09 |
| 1127 | 258351.9 | 4084231 | 1.64E-10 | 2.38E-09 | 4.20E-08 | 4.20E-08 | 2.34E-08 | 1.10E-07 | 2.50E-11 | 3.62E-10 | 6.56E-09 | 6.56E-09 | 3.61E-09 | 1.71E-08 | 1.36E-11 | 1.96E-10 | 2.92E-09 | 2.92E-09 | 1.44E-09 | 7.49E-09 |
| 1128 | 258373.9 | 4084239 | 1.76E-10 | 2.54E-09 | 4.49E-08 | 4.49E-08 | 2.50E-08 | 1.18E-07 | 2.67E-11 | 3.87E-10 | 7.01E-09 | 7.01E-09 | 3.86E-09 | 1.83E-08 | 1.45E-11 | 2.10E-10 | 3.12E-09 | 3.12E-09 | 1.54E-09 | 8.01E-09 |
| 1129 | 258395.9 | 4084247 | 1.88E-10 | 2.71E-09 | 4.79E-08 | 4.79E-08 | 2.67E-08 | 1.26E-07 | 2.85E-11 | 4.14E-10 | 7.49E-09 | 7.49E-09 | 4.12E-09 | 1.95E-08 | 1.55E-11 | 2.24E-10 | 3.33E-09 | 3.33E-09 | 1.65E-09 | 8.55E-09 |
| 1130 | 258417.9 | 4084255 | 2.00E-10 | 2.89E-09 | 5.11E-08 | 5.11E-08 | 2.83E-08 | 1.34E-07 | 3.03E-11 | 4.41E-10 | 7.97E-09 | 7.97E-09 | 4.38E-09 | 2.08E-08 | 1.65E-11 | 2.38E-10 | 3.55E-09 | 3.55E-09 | 1.76E-09 | 9.11E-09 |
| 1131 | 258439.9 | 4084263 | 2.13E-10 | 3.07E-09 | 5.43E-08 | 5.43E-08 | 3.03E-08 | 1.42E-07 | 3.23E-11 | 4.68E-10 | 8.48E-09 | 8.48E-09 | 4.68E-09 | 2.21E-08 | 1.75E-11 | 2.53E-10 | 3.77E-09 | 3.77E-09 | 1.87E-09 | 9.68E-09 |
| 1132 | 258461.9 | 4084272 | 2.25E-10 | 3.26E-09 | 5.76E-08 | 5.76E-08 | 3.21E-08 | 1.51E-07 | 3.42E-11 | 4.98E-10 | 8.99E-09 | 6.99E-09 | 4.94E-09 | 2.34E-08 | 1.86E-11 | 2.69E-10 | 4.00E-09 | 4.00E-09 | 1.98E-09 | 1.03E-08 |
| 1133 | 258483.9 | 4084280 | 2.38E-10 | 3.45E-09 | 6.08E-08 | 6.08E-08 | 3.39E-08 | 1.59E-07 | 3.62E-11 | 5.25E-10 | 9.50E-09 | 9.50E-09 | 5.22E-09 | 2.48E-08 | 1.96E-11 | 2.84E-10 | 4.23E-09 | 4.23E-09 | 2.09E-09 | 1.09E-08 |
| 1134 | 258505.9 | 4084288 | 2.51E-10 | 3.63E-09 | 6.42E-08 | 8.42E-08 | 3.58E-08 | 1.68E-07 | 3.81E-11 | 5.54E-10 | 1.00E-08 | 1.00E-08 | 5.51E-09 | 2.61E-08 | 2.07E-11 | 3.00E-10 | 4.46E-09 | 4.46E-09 | 2.21E-09 | 1.14E-08 |
| 1135 | 258527.9 | 4084296 | 2.64E-10 | 3.82E-09 | 6.75E-08 | 6.75E-08 | 3.76E-08 | 1.77E-07 | 4.01E-11 | 5.82E-10 | 1.05E-08 | 1.05E-08 | 5.79E-09 | 2.75E-08 | 2.18E-11 | 3.15E-10 | 4.69E-09 | 4.69E-09 | 2.32E-09 | 1.20E-08 |
| 1136 | 258549.9 | 4084304 | 2.77E-10 | 4.01E-09 | 7.08E-08 | 7.08E-08 | 3.95E-08 | 1.85E-07 | 4.21E-11 | 6.11E-10 | 1.11E-08 | 1.11E-08 | 6.08E-09 | 2.88E-08 | 2.28E-11 | 3.30E-10 | 4.92E-09 | 4.92E-09 | 2.43E-09 | 1.26E-08 |
| 1137 | 258571.9 | 4084312 | 2.90E-10 | 4.19E-09 | 7.40E-08 | 7.40E-08 | 4.13E-08 | 1.94E-07 | 4.40E-11 | 6.36E-10 | 1.16E-08 | 1.16E-08 | 6.35E-09 | 3.01E-08 | 2.39E-11 | 3.45E-10 | 5.14E-09 | 5.14E-09 | 2.54E-09 | 1.32E-08 |
| 1138 | 258594 | 4084320 | 3.02E-10 | 4.37E-09 | 7.72E-08 | 7.72E-08 | 4.30E-08 | 2.02E-07 | 4.59E-11 | 6.68E-10 | 1.20E-08 | 1.20E-08 | 6.62E-09 | 3.14E-08 | 2.49E-11 | 3.60E-10 | 5.36E-09 | 5.36E-09 | 2.65E-09 | 1.38E-08 |
| 1139 | 258616 | 4084329 | 3.14E-10 | 4.54E-09 | 8.02E-08 | 8.02E-08 | 4.47E-08 | 2.10E-07 | 4.77E-11 | 6.92E-10 | 1.25E-08 | 1.25E-08 | 6.88E-09 | 3.27E-08 | 2.59E-11 | 3.74E-10 | 5.57E-09 | 5.57E-09 | 2.76E-09 | 1.43E-08 |
| 1140 | 258638 | 4084337 | 3.25E-10 | 4.71E-09 | 8.31E-08 | 8.31E-08 | 4.63E-08 | 2.18E-07 | 4.94E-11 | 7.17E-10 | 1.30E-08 | 1.30E-08 | 7.13E-09 | 3.38E-08 | 2.68E-11 | 3.88E-10 | 5.77E-09 | 5.77E-09 | 2.86E-09 | 1.48E-08 |
| 1141 | 258660 | 4084345 | 3.36E-10 | 4.86E-09 | 8.58E-08 | 8.58E-08 | 4.78E-08 | 2.25E-07 | 5.10E-11 | 7.40E-10 | 1.34E-08 | 1.34E-08 | 7.37E-09 | 3.50E-08 | 2.77E-11 | 4.01E-10 | 5.96E-09 | 5.96E-09 | 2.95E-09 | 1.53E-08 |
| 1142 | 258682 | 4084353 | 3.46E-10 | 5.00E-09 | 8.83E-08 | 8.83E-08 | 4.93E-08 | 2.31E-07 | 5.25E-11 | 7.62E-10 | 1.38E-08 | 1.38E-08 | 7.58E-09 | 3.60E-08 | 2.83E-11 | 4.12E-10 | 6.14E-09 | 6.14E-09 | 3.04E-09 | 1.58E-08 |
| 1143 | 258704 | 4084361 | 3.55E-10 | 5.13E-09 | 9.06E-08 | 9.06E-08 | 5.05E-08 | 2.37E-07 | 5.39E-11 | 7.82E-10 | 1.42E-08 | 1.42E-08 | 7.76E-09 | 3.69E-08 | 2.93E-11 | 4.23E-10 | 6.30E-09 | 6.30E-09 | 3.12E-09 | 1.62E-08 |
| 1144 | 258726 | 4084369 | 3.63E-10 | 5.25E-09 | 9.26E-08 | 9.26E-08 | 5.16E-08 | 2.43E-07 | 5.50E-11 | 7.99E-10 | 1.45E-08 | 1.45E-08 | 7.95E-09 | 3.77E-08 | 2.99E-11 | 4.32E-10 | 6.44E-09 | 6.44E-09 | 3.19E-09 | 1.65E-08 |
| 1145 | 258748 | 4084377 | 3.69E-10 | 5.34E-09 | 9.43E-08 | 9.43E-08 | 5.26E-08 | 2.47E-07 | 5.60E-11 | 8.14E-10 | 1.47E-08 | 1.47E-08 | 8.10E-09 | 3.84E-08 | 3.04E-11 | 4.40E-10 | 6.55E-09 | 6.55E-09 | 3.24E-09 | 1.68E-08 |
| 1146 | 258770 | 4084386 | 3.74E-10 | 5.41E-09 | 9.56E-08 | 9.56E-08 | 5.33E-08 | 2.50E-07 | 5

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 941 | 258498 | 4084580 | 7.34E-10 | 1.06E-08 | 1.88E-07 | 1.88E-07 | 1.05E-07 | 4.91E-07 | 1.11E-10 | 1.62E-09 | 2.93E-08 | 2.93E-08 | 1.61E-08 | 7.64E-08 | 6.05E-11 | 6.75E-10 | 1.30E-08 | 1.30E-08 | 6.45E-09 | 3.34E-08 |
| 942 | 258520.2 | 4084588 | 7.56E-10 | 1.09E-08 | 1.93E-07 | 1.93E-07 | 1.08E-07 | 5.05E-07 | 1.15E-10 | 1.67E-09 | 3.01E-08 | 3.01E-08 | 1.66E-08 | 7.86E-08 | 6.23E-11 | 9.01E-10 | 1.34E-08 | 1.34E-08 | 6.64E-09 | 3.44E-08 |
| 943 | 258542.4 | 4084597 | 7.74E-10 | 1.12E-08 | 1.98E-07 | 1.98E-07 | 1.10E-07 | 5.18E-07 | 1.17E-10 | 1.71E-09 | 3.09E-08 | 3.09E-08 | 1.70E-08 | 8.05E-08 | 6.38E-11 | 9.23E-10 | 1.37E-08 | 1.37E-08 | 6.80E-09 | 3.52E-08 |
| 944 | 258564.7 | 4084605 | 7.88E-10 | 1.14E-08 | 2.01E-07 | 2.01E-07 | 1.12E-07 | 5.27E-07 | 1.20E-10 | 1.74E-09 | 3.14E-08 | 3.14E-08 | 1.73E-08 | 8.19E-08 | 8.49E-11 | 9.29E-10 | 1.40E-08 | 1.40E-08 | 6.92E-09 | 3.59E-08 |
| 945 | 258586.9 | 4084613 | 7.96E-10 | 1.15E-08 | 2.03E-07 | 2.03E-07 | 1.13E-07 | 5.32E-07 | 1.21E-10 | 1.75E-09 | 3.17E-08 | 3.17E-08 | 1.74E-08 | 8.28E-08 | 8.56E-11 | 9.49E-10 | 1.41E-08 | 1.41E-08 | 6.99E-09 | 3.62E-08 |
| 946 | 258609.2 | 4084621 | 7.98E-10 | 1.15E-08 | 2.04E-07 | 2.04E-07 | 1.14E-07 | 5.34E-07 | 1.21E-10 | 1.76E-09 | 3.18E-08 | 3.18E-08 | 1.75E-08 | 8.30E-08 | 8.58E-11 | 9.51E-10 | 1.42E-08 | 1.42E-08 | 7.01E-09 | 3.63E-08 |
| 947 | 258641.2 | 4084651 | 8.28E-10 | 1.20E-08 | 2.11E-07 | 2.11E-07 | 1.18E-07 | 5.53E-07 | 1.26E-10 | 1.82E-09 | 3.30E-08 | 3.30E-08 | 1.81E-08 | 8.61E-08 | 6.82E-11 | 9.87E-10 | 1.47E-08 | 1.47E-08 | 7.27E-09 | 3.77E-08 |
| 948 | 258651 | 4084673 | 8.55E-10 | 1.24E-08 | 2.16E-07 | 2.16E-07 | 1.22E-07 | 5.72E-07 | 1.30E-10 | 1.88E-09 | 3.41E-08 | 3.41E-08 | 1.87E-08 | 8.89E-08 | 7.05E-11 | 1.02E-09 | 1.32E-08 | 1.32E-08 | 7.31E-09 | 3.89E-08 |
| 949 | 258660.7 | 4084694 | 8.73E-10 | 1.26E-08 | 2.23E-07 | 2.23E-07 | 1.24E-07 | 5.83E-07 | 1.32E-10 | 1.92E-09 | 3.48E-08 | 3.48E-08 | 1.91E-08 | 9.08E-08 | 7.19E-11 | 1.04E-09 | 1.55E-08 | 1.55E-08 | 7.66E-09 | 3.97E-08 |
| 950 | 258670.5 | 4084718 | 8.80E-10 | 1.27E-08 | 2.25E-07 | 2.25E-07 | 1.25E-07 | 5.88E-07 | 1.34E-10 | 1.94E-09 | 3.51E-08 | 3.51E-08 | 1.93E-08 | 9.15E-08 | 7.25E-11 | 1.05E-09 | 1.56E-08 | 1.56E-08 | 7.73E-09 | 4.01E-08 |
| 951 | 258680.3 | 4084738 | 8.77E-10 | 1.27E-08 | 2.24E-07 | 2.24E-07 | 1.25E-07 | 5.87E-07 | 1.33E-10 | 1.93E-09 | 3.50E-08 | 3.50E-08 | 1.92E-08 | 9.13E-08 | 7.23E-11 | 1.05E-09 | 1.56E-08 | 1.56E-08 | 7.70E-09 | 3.99E-08 |
| 952 | 258690.1 | 4084759 | 8.63E-10 | 1.25E-08 | 2.20E-07 | 2.20E-07 | 1.23E-07 | 5.77E-07 | 1.31E-10 | 1.90E-09 | 3.44E-08 | 3.44E-08 | 1.89E-08 | 8.98E-08 | 7.11E-11 | 1.03E-09 | 1.53E-08 | 1.53E-08 | 7.58E-09 | 3.93E-08 |
| 953 | 258699.9 | 4084781 | 8.37E-10 | 1.21E-08 | 2.14E-07 | 2.14E-07 | 1.19E-07 | 5.60E-07 | 1.27E-10 | 1.84E-09 | 3.34E-08 | 3.34E-08 | 1.83E-08 | 6.71E-08 | 6.90E-11 | 9.98E-10 | 1.48E-08 | 1.48E-08 | 7.35E-09 | 3.81E-08 |
| 954 | 258709.6 | 4084802 | 8.01E-10 | 1.16E-08 | 2.05E-07 | 2.05E-07 | 1.14E-07 | 5.36E-07 | 1.22E-10 | 1.76E-09 | 3.19E-08 | 3.19E-08 | 1.76E-08 | 6.33E-08 | 6.60E-11 | 9.55E-10 | 1.42E-08 | 1.42E-08 | 7.03E-09 | 3.65E-08 |
| 955 | 258719.4 | 4084824 | 7.57E-10 | 1.09E-08 | 1.93E-07 | 1.93E-07 | 1.08E-07 | 5.06E-07 | 1.15E-10 | 1.67E-09 | 3.02E-08 | 3.02E-08 | 1.66E-08 | 7.87E-08 | 6.24E-11 | 9.02E-10 | 1.34E-08 | 1.34E-08 | 6.65E-09 | 3.45E-08 |
| 956 | 258729.2 | 4084846 | 7.07E-10 | 1.02E-08 | 1.81E-07 | 1.81E-07 | 1.01E-07 | 4.73E-07 | 1.07E-10 | 1.56E-09 | 2.82E-08 | 2.82E-08 | 1.55E-08 | 7.35E-08 | 5.63E-11 | 8.43E-10 | 1.25E-08 | 1.25E-08 | 6.21E-09 | 3.22E-08 |
| 957 | 258739 | 4084867 | 6.34E-10 | 9.46E-09 | 1.67E-07 | 1.67E-07 | 9.31E-08 | 4.37E-07 | 9.92E-11 | 1.44E-09 | 2.61E-08 | 2.61E-08 | 1.43E-08 | 6.80E-08 | 5.29E-11 | 7.79E-10 | 1.16E-08 | 1.16E-08 | 5.74E-09 | 2.98E-08 |
| 956 | 258748.7 | 4084889 | 6.00E-10 | 6.68E-09 | 1.33E-07 | 1.53E-07 | 8.54E-08 | 4.01E-07 | 9.11E-11 | 1.32E-09 | 2.39E-08 | 2.39E-08 | 1.32E-08 | 6.24E-08 | 4.95E-11 | 7.15E-10 | 1.06E-08 | 1.06E-08 | 5.27E-09 | 2.73E-08 |
| 959 | 258342.3 | 4084522 | 5.33E-10 | 7.70E-09 | 1.36E-07 | 1.36E-07 | 7.39E-08 | 3.56E-07 | 8.08E-11 | 1.17E-09 | 2.12E-08 | 2.12E-08 | 1.17E-08 | 5.34E-08 | 4.29E-11 | 6.35E-10 | 9.45E-09 | 9.45E-09 | 4.68E-09 | 2.43E-08 |
| 960 | 258317.9 | 4084523 | 5.22E-10 | 7.35E-09 | 1.33E-07 | 1.33E-07 | 7.43E-08 | 3.49E-07 | 7.92E-11 | 1.15E-09 | 2.08E-08 | 2.08E-08 | 1.14E-08 | 5.43E-08 | 4.30E-11 | 6.22E-10 | 9.26E-09 | 9.26E-09 | 4.56E-09 | 2.38E-08 |
| 961 | 258293.6 | 4084524 | 5.10E-10 | 7.37E-09 | 1.30E-07 | 1.30E-07 | 7.26E-08 | 3.41E-07 | 7.74E-11 | 1.12E-09 | 2.03E-08 | 2.03E-08 | 1.12E-08 | 5.30E-08 | 4.20E-11 | 6.08E-10 | 9.05E-09 | 9.05E-09 | 4.48E-09 | 2.32E-08 |
| 962 | 258269.3 | 4084525 | 4.97E-10 | 7.16E-09 | 1.27E-07 | 1.27E-07 | 7.07E-08 | 3.33E-07 | 7.54E-11 | 1.09E-09 | 1.98E-08 | 1.98E-08 | 1.09E-08 | 5.17E-08 | 4.09E-11 | 5.92E-10 | 8.81E-09 | 8.81E-09 | 4.36E-09 | 2.28E-08 |
| 963 | 258244.9 | 4084526 | 4.82E-10 | 6.98E-09 | 1.23E-07 | 1.23E-07 | 6.87E-08 | 3.23E-07 | 7.33E-11 | 1.06E-09 | 1.92E-08 | 1.92E-08 | 1.06E-08 | 5.02E-08 | 3.98E-11 | 5.75E-10 | 8.56E-09 | 8.56E-09 | 4.24E-09 | 2.20E-08 |
| 964 | 258220.6 | 4084527 | 4.67E-10 | 8.75E-09 | 1.19E-07 | 1.19E-07 | 6.65E-08 | 3.12E-07 | 7.09E-11 | 1.03E-09 | 1.86E-08 | 1.86E-08 | 1.02E-08 | 4.86E-08 | 3.85E-11 | 5.57E-10 | 6.28E-09 | 8.28E-09 | 4.10E-09 | 2.13E-08 |
| 965 | 258196.3 | 4084528 | 4.31E-10 | 6.52E-09 | 1.15E-07 | 1.15E-07 | 6.41E-08 | 3.01E-07 | 6.64E-11 | 9.93E-10 | 1.80E-08 | 1.80E-08 | 9.88E-09 | 4.69E-08 | 3.71E-11 | 5.37E-10 | 7.99E-09 | 7.99E-09 | 3.96E-09 | 2.05E-08 |
| 966 | 258171.9 | 4084529 | 4.33E-10 | 6.27E-09 | 1.11E-07 | 1.11E-07 | 6.17E-08 | 2.90E-07 | 8.38E-11 | 9.55E-10 | 1.73E-08 | 1.75E-08 | 9.50E-09 | 4.51E-08 | 3.37E-11 | 5.17E-10 | 7.69E-09 | 7.69E-09 | 3.81E-09 | 1.97E-08 |
| 967 | 258147.8 | 4084530 | 4.15E-10 | 6.01E-09 | 1.06E-07 | 1.06E-07 | 5.91E-08 | 2.78E-07 | 8.30E-11 | 9.15E-10 | 1.68E-08 | 1.66E-08 | 9.10E-09 | 4.32E-08 | 3.42E-11 | 4.95E-10 | 7.37E-09 | 7.37E-09 | 3.65E-09 | 1.89E-08 |
| 966 | 258123.3 | 4084531 | 3.97E-10 | 5.74E-09 | 1.01E-07 | 1.01E-07 | 5.65E-08 | 2.65E-07 | 8.02E-11 | 8.74E-10 | 1.58E-08 | 1.58E-08 | 6.70E-09 | 4.13E-08 | 3.27E-11 | 4.73E-10 | 7.04E-09 | 7.04E-09 | 3.48E-09 | 1.81E-08 |
| 969 | 258098.9 | 4084532 | 3.78E-10 | 5.46E-09 | 9.64E-08 | 9.64E-08 | 5.38E-08 | 2.52E-07 | 5.75E-11 | 8.33E-10 | 1.51E-08 | 1.31E-08 | 8.26E-09 | 3.93E-08 | 3.11E-11 | 4.50E-10 | 6.70E-09 | 6.70E-09 | 3.32E-09 | 1.72E-08 |
| 970 | 258074.6 | 4084533 | 3.58E-10 | 5.18E-09 | 9.15E-08 | 9.15E-08 | 5.10E-08 | 2.39E-07 | 5.43E-11 | 7.89E-10 | 1.43E-08 | 1.43E-08 | 7.85E-09 | 3.75E-08 | 2.95E-11 | 4.27E-10 | 6.38E-09 | 6.35E-09 | 3.14E-09 | 1.83E-08 |
| 971 | 258050.3 | 4084534 | 3.38E-10 | 4.89E-09 | 8.64E-08 | 6.64E-08 | 4.82E-08 | 2.26E-07 | 5.13E-11 | 7.45E-10 | 1.35E-08 | 1.35E-08 | 7.42E-09 | 3.52E-08 | 2.79E-11 | 4.03E-10 | 6.00E-09 | 6.00E-09 | 2.97E-09 | 1.54E-08 |
| 972 | 258025.9 | 4084535 | 3.18E-10 | 4.61E-09 | 8.13E-08 | 6.13E-08 | 4.54E-08 | 2.13E-07 | 4.83E-11 | 7.02E-10 | 1.27E-08 | 1.27E-08 | 6.98E-09 | 3.31E-08 | 2.63E-11 | 3.80E-10 | 5.65E-09 | 5.65E-09 | 2.80E-09 | 1.45E-08 |
| 973 | 258001.6 | 4084536 | 2.99E-10 | 4.32E-09 | 7.63E-08 | 7.63E-08 | 4.25E-08 | 2.00E-07 | 4.53E-11 | 6.58E-10 | 1.19E-08 | 1.19E-08 | 6.55E-09 | 3.11E-08 | 2.46E-11 | 3.56E-10 | 5.30E-09 | 5.30E-09 | 2.62E-09 | 1.36E-08 |
| 974 | 257977.3 | 4084537 | 2.79E-10 | 4.04E-09 | 7.13E-08 | 7.13E-08 | 3.98E-08 | 1.87E-07 | 4.24E-11 | 6.15E-10 | 1.11E-08 | 1.11E-08 | 6.12E-09 | 2.90E-08 | 2.30E-11 | 3.33E-10 | 4.95E-09 | 4.95E-09 | 2.45E-09 | 1.27E-08 |
| 975 | 257952.9 | 4084538 | 2.60E-10 | 3.76E-09 | 6.64E-08 | 6.64E-08 | 3.70E-08 | 1.74E-07 | 3.95E-11 | 5.73E-10 | 1.04E-08 | 1.04E-08 | 5.70E-09 | 2.71E-08 | 2.14E-11 | 3.10E-10 | 4.62E-09 | 4.62E-09 | 2.28E-09 | 1.18E-08 |
| 976 | 257928.6 | 4084539 | 2.42E-10 | 3.50E-09 | 6.18E-08 | 6.16E-08 | 3.44E-08 | 1.62E-07 | 3.67E-11 | 5.33E-10 | 9.64E-09 | 9.64E-09 | 5.30E-09 | 2.32E-08 | 1.99E-11 | 2.88E-10 | 4.29E-09 | 4.29E-09 | 2.12E-09 | 1.10E-08 |
| 977 | 257904.3 | 4084540 | 2.24E-10 | 3.24E-09 | 5.73E-08 | 5.73E-08 | 3.19E-08 | 1.50E-07 | 3.40E-11 | 4.94E-10 | 8.94E-09 | 6.94E-09 | 4.92E-09 | 2.33E-08 | 1.85E-11 | 2.67E-10 | 3.98E-09 | 3.98E-09 | 1.97E-09 | 1.02E-08 |
| 978 | 257679.9 | 4084541 | 2.08E-10 | 3.01E-09 | 5.31E-08 | 5.31E-08 | 2.96E-08 | 1.39E-07 | 3.15E-11 | 4.58E-10 | 8.29E-09 | 8.29E-09 | 4.56E-09 | 2.16E-08 | 1.71E-11 | 2.48E-10 | 3.69E-09 | 3.69E-09 | 1.82E-09 | 9.46E-09 |
| 979 | 257655.6 | 4084542 | 1.92E-10 | 2.78E-09 | 4.91E-08 | 4.91E-08 | 2.74E-08 | 1.29E-07 | 2.92E-11 | 4.24E-10 | 7.67E-09 | 7.67E-09 | 4.22E-09 | 2.00E-08 | 1.39E-11 | 2.29E-10 | 3.41E-09 | 3.41E-09 | 1.69E-09 | 8.76E-09 |
| 980 | 257831.3 | 4084543 | 1.78E-10 | 2.56E-09 | 4.55E-08 | 4.55E-08 | 2.54E-08 | 1.19E-07 | 2.71E-11 | 3.93E-10 | 7.11E-09 | 7.11E-09 | 3.91E-09 | 1.85E-08 | 1.47E-11 | 2.13E-10 | 3.16E-09 | 3.16E-09 | 1.57E-09 | 6.12E-09 |
| 961 | 257807 | 4084544 | 1.65E-10 | 2.39E-09 | 4.22E-08 | 4.22E-08 | 2.35E-08 | 1.11E-07 | 2.31E-11 | 3.64E-10 | 6.59E-09 | 6.59E-09 | 3.63E-09 | 1.72E-08 | 1.36E-11 | 1.97E-10 | 2.93E-09 | 2.93E-09 | 1.45E-09 | 7.33E-09 |
| 962 | 257762.6 | 4084545 | 1.54E-10 | 2.22E-09 | 3.92E-08 | 3.92E-08 | 2.19E-08 | 1.03E-07 | 2.33E-11 | 3.39E-10 | 6.13E-09 | 6.13E-09 | 3.37E-09 | 1.60E-08 | 1.27E-11 | 1.83E-10 | 2.73E-09 | 2.73E-09 | 1.35E-09 | 7.00E-09 |
| 963 | 257758.3 | 4084546 | 1.43E-10 | 2.07E-09 | 3.65E-08 | 3.65E-08 | 2.04E-08 | 9.37E-08 | 2.17E-11 | 3.15E-10 | 5.70E-09 | 5.70E-09 | 3.14E-09 | 1.49E-08 | 1.16E-11 | 1.71E-10 | 2.54E-09 | 2.54E-09 | 1.26E-09 | 6.51E-09 |
| 984 | 257734 | 4084547 | 1.34E-10 | 1.93E-09 | 3.41E-08 | 3.41E-08 | 1.90E-08 | 8.93E-08 | 2.03E-11 | 2.94E-10 | 5.33E-09 | 5.32E-09 | 2.93E-09 | 1.39E-08 | 1.10E-11 | 1.39E-10 | 2.37E-09 | 2.37E-09 | 1.17E-09 | 6.08E-09 |
| 985 | 257709.6 | 4084548 | 1.25E-10 | 1.81E-09 | 3.19E-08 | 3.19E-08 | 1.78E-08 | 8.36E-08 | 1.90E-11 | 2.75E-10 | 4.98E-09 | 4.98E-09 | 2.74E-09 | 1.30E-08 | 1.03E-11 | 1.49E-10 | 2.22E-09 | 2.22E-09 | 1.10E-09 | 5.69E-09 |
| 986 | 257685.3 | 4084549 | 1.17E-10 | 1.70E-09 | 3.00E-08 | 3.00E-08 | 1.67E-08 | 7.85E-08 | 1.78E-11 | 2.59E-10 | 4.68E-09 | 4.68E-09 | 2.57E-09 | 1.22E-08 | 9.68E-12 | 1.40E-10 | 2.08E-09 | 2.08E-09 | 1.03E-09 | 5.35E-09 |
| 987 | 257661 | 4084550 | 1.11E-10 | 1.60E-09 | 2.82E-08 | 2.82E-08 | 1.57E-08 | 7.39E-08 | 1.68E-11 | 2.44E-10 | 4.41E-09 | 4.41E-09 | 2.42E-09 | 1.15E-08 | 9.11E-12 | 1.32E-10 | 1.96E-09 | 1.96E-09 | 9.71E-10 | 5.03E-09 |
| 988 | 257636.6 | 4084551 | 1.04E-10 | 1.51E-09 | 2.67E-08 | 2.67E-08 | 1.49E-08 | 6.98E-08 | 1.58E-11 | 2.30E-10 | 4.16E-09 | 4.16E-09 | 2.29E-09 | 1.09E-08 | 8.81E-12 | 1.24E-10 | 1.63E-09 | 1.63E-09 | 9.17E-10 | 4.75E-09 |
| 989 | 257612.3 | 4084552 | 9.89E-11 | 1.43E-09 | 2.53E-08 | 2.53E-08 | 1.41E-08 | 6.61E-08 | 1.50E-11 | 2.18E-10 | 3.94E-09 | 3.94E-09 | 2.17E-09 | 1.03E-08 | 6.15E-12 | 1.18E-10 | 1.75E-09 | 1.75E-09 | 8.68E-10 | 4.50E-09 |
| 990 | 257588 | 4084553 | 9.38E-11 | 1.36E-09 | 2.40E-08 | 2.40E-08 | 1.34E-08 | 6.28E-08 | 1.42E-11 | 2.07E-10 | 3.74E-09 | 3.74E-09 | 2.06E-09 | 9.76E-09 | 7.74E-12 | 1.12E-10 | 1.67E-09 | 1.67E-09 | 8.24E-10 | 4.27E-09 |
| 991 | 257563.8 | 4084554 | 8.93E-11 | 1.29E-09 | 2.28E-08 | 2.28E-08 | 1.27E-08 | 5.97E-08 | 1.35E-11 | 1.97E-10 | 3.56E-09 | 3.56E-09 | 1.96E-09 | 9.29E-09 | 7.36E-12 | 1.06E-10 | 1.58E-09 | 1.58E-09 | 7.84E-10 | 4.07E-09 |
| 992 | 257539.3 | 4084555 | 8.50E-11 | 1.23E-09 | 2.17E-08 | 2.17E-08 | 1.21E-08 | 5.69E-08 | 1.29E-11 | 1.87E-10 | 3.39E-09 | 3.29E-09 | 1.86E-09 | 8.85E-09 | 7.01E-12 | 1.01E-10 | 1.51E-09 | 1.51E-09 | 7.47E-10 | 3.87E-09 |
| 993 | 258360.7 | 4084431 | 3.66E-10 | 5.29E-09 | 9.34E-08 | 9.34E-08 | 5.21E-08 | 2.45E-07 | 5.55E-11 | 8.06E-10 | 1.46E-08 | 1.46E-08 | 6.02E-09 | 3.81E-08 | 3.02E-11 | 4.36E-10 | 6.49E-09 | 6.49E-09 | 3.21E-09 | 1.67E-08 |
| 994 | 258383.3 | 4084439 | 3.89E-10 | 5.63E-09 | 9.94E-08 | 9.94E-08 | 5.54E-08 | 2.60E-07 | 5.90E-11 | 8.57E-10 | 1.55E-08 | 1.55E-08 | 8.53E-09 | 4.05E-08 | 3.21E-11 | 4.64E-10 | 6.90E-09 | 6.90E-09 | 3.42E-09 | 1.77E-08 |
| 995 | 258405.9 | 4084448 | 4.12E-10 | 5.96E-09 | 1.05E-07 | 1.05E-07 | 5.87E-08 | 2.76E-07 | 6.25E-11 | 9.08E-10 | 1.64E-08 | 1.64E-08 | 9.03E-09 | 4.29E-08 | 3.40E-11 | 4.91E-10 | 7.31E-09 | 7.31E-09 | 3.62E-09 | 1.88E-08 |
| 996 | 258428.5 | 4084456 | 4.35E-10 | 6.29E-09 | 1.11E-07 | 1.11E-07 | 8.20E-08 | 2.91E-07 | 6.60E-11 | 9.59E-10 | 1.74E-08 | 1.74E-08 | 9.34E-09 | 4.53E-08 | 3.59E-11 | 5.19E-10 | 7.72E-09 | 7.71E-09 | 3.82E-09 | 1.98E-08 |
| 997 | 258451.1 | 4084464 | 4.37E-10 | 6.62E-09 | 1.17E-07 | 1.17E-07 | 6.51E-08 | 3.06E-07 | 6.94E-11 | 1.01E-09 | 1.82E-08 | 1.82E-08 | 1.00E-08 | 4.76E-08 | 3.77E-11 | 5.45E-10 | 8.12E-09 | 6.12E-09 | 4.02E-09 | 2.08E-08 |
| 998 | 258475.7 | 4084473 | 4.79E-10 | 6.93E-09 | 1.22E-07 | 1.22E-07 | 6.83E-08 | 3.21E-07 | 7.26E-11 | 1.06E-09 | 1.91E-08 | 1.91E-08 | 1.05E-08 | 4.99E-08 | 3.95E-11 | 5.72E-10 | 8.51E-09 | 8.51E-09 | 4.21E-09 | 2.18E-08 |
| 999 | 258496.3 | 4084481 | 5.01E-10 | 7.24E-09 | 1.26E-07 | 1.26E-07 | 7.13E-08 | 3.35E-07 | 7.60E-11 | 1.10E-09 | 2.00E-08 | 2.00E-08 | 1.10E-08 | 5.21E-08 | 4.13E-11 | 5.97E-10 | 8.89E-09 | 8.89E-09 | 4.40E-09 | 2.28E-08 |
| 1000 | 258518.9 | 4084489 | 5.21E-10 | 7.54E-09 | 1.33E-07 | 1.33E-07 | 7.42E-08 | 3.48E-07 | 7.91E-11 | 1.15E-09 | 2.08E-08 | 2.08E-08 | 1.14E-08 | 5.42E-08 | 4.29E-11 | 6.21E-10 | 9.24E-09 | 9.24E-09 | 4.58E-09 | 2.37E-08 |
| 1001 | 258541.3 | 4084498 | 5.40E-10 | 7.81E-09 | 1.38E-07 | 1.38E-07 | 7.69E-08 | 3.61E-07 | 8.19E-11 | 1.19E-09 | 2.15E-08 | 2.15E-08 | 1.18E-08 | 5.62E-08 | 4.45E-11 | 8.44E-10 | 9.58E-09 | 9.56E-09 | 4.74E-09 | 2.46E-08 |
| 1002 | 258564.1 | 4084506 | 5.37E-10 | 8.06E-09 | 1.42E-07 | 1.42E-07 | 7.93E-08 | 3.72E-07 | 6.45E-11 | 1.23E-09 | 2.22E-08 | 2.22E-08 | 1.22E-08 | 5.80E-08 | 4.59E-11 | 6.64E-10 | 9.88E-09 | 9.88E-09 | 4.89E-09 | 2.54E-08 |
| 1003 | 258586.6 | 4084514 | 5.72E-10 | 6.27E-09 | 1.46E-07 | 1.46E-07 | 8.15E-08 | 3.83E-07 | 8.68E-11 | 1.26E-09 | 2.28E-08 | 2.28E-08 | 1.25E-08 | 5.95E-08 | 4.72E-11 | 6.82E-10 | 1.02E-08 | 1.02E-08 | 5.02E-09 | 2.61E-08 |
| 1004 | 258609.2 | 4084523 | 5.84E-10 | 8.45E-09 | 1.49E-07 | 1.49E-07 | 8.32E-08 | 3.91E-07 | 8.87E-11 | 1.29E-09 | 2.33E-08 | 2.33E-08 | 1.28E-08 | 6.08E-08 | 4.82E-11 | 6.97E-10 | 1.04E-08 | 1.04E-08 | 5.13E-09 | 2.66E-08 |
| 1005 | 258631.8 | 4084531 | 5.94E-10 | 8.59E-09 | 1.52E-07 | 1.52E-07 | 8.45E-08 | 3.97E-07 | 9.01E-11 | 1.31E-09 | 2.37E-08 | 2.37E-08 | 1.30E-08 | 8.18E-08 | 4.89E-11 | 7.08E-10 | 1.05E-08 | 1.05E-08 | 5.21E-09 | 2.70E-08 |
| 1006 | 258654.4 | 4084540 | 5.99E-10 | 8.67E-09 | 1.53E-07 | 1.33E-07 | 8.34E-08 | 4.01E-07 | 9.10E-11 | 1.32E-09 | 2.39E-08 | 2.39E-08 | 1.31E-08 | 8.24E-08 | 4.94E-11 | 7.15E-10 | 1.06E-08 | 1.06E-08 | 5.26E-09 | 2.73E-08 |
| 1007 | 258677 | 4084548 | 6.01E-10 | 6.70E-09 | 1.54E-07 | 1.34E-07 | 6.56E-08 | 4.02E-07 | 9.13E-11 | 1.32E-09 | 2.40E-08 | 2.40E-08 | 1.32E-08 | 8.26E-08 | 4.96E-11 | 7.17E-10 | 1.07E-08 | 1.07E-08 | 5.28E-09 | 2.74E-08 |
| 1008 | 258709.3 | 4084576 | 6.20E-10 | 8.97E-09 | 1.58E-07 | 1.58E-07 | 8.83E-08 | 4.15E-07 | 9.41E-11 | 1.37E-09 | 2.47E-08 | 2.47E-08 | 1.36E-08 | 8.45E-08 | 5.11E-11 | 7.40E-10 | 1.10E-08 | 1.10E-08 | 5.45E-09 | 2.83E-08 |
| 1009 | 258719.3 | 4084600 | 6.39E-10 | 9.25E-09 | 1.63E-07 | 1.63E-07 | 9.10E-08 | 4.28E-07 | 9.70E-11 | 1.41E-09 | 2.35E-08 | 2.35E-08 | 1.40E-08 | 6.65E-08 | 5.27E-11 | 7.62E-10 | 1.13E-08 | 1.13E-08 | 5.62E-09 | 2.91E-08 |
| 1010 | 258729.4 | 4084622 | 6.54E-10 | 9.45E-09 | 1.67E-07 | 1.67E-07 | 9.31E-08 | 4.37E-07 | 9.92E-11 | 1.44E-09 | 2.61E-08 | 2.61E-08 | 1.45E-08 | 6.80E-08 | 5.39E-11 | 7.79E-10 | 1.16E-08 | 1.16E-08 | 5.74E-09 | 2.98E-08 |
| 1011 | 258739.3 | 4084644 | 6.62E-10 | 9.58E-09 | 1.69E-07 | 1.69E-07 | 9.43E-08 | 4.43E-07 | 1.01E-10 | 1.46E-09 | 2.64E-08 | 2.64E-08 | 1.45E-08 | 6.89E-08 | 5.46E-11 | 7.90E-10 | 1.17E-08 | 1.17E-08 | 5.82E-09 | 3.02E-08 |
| 1012 | 258749.2 | 4084666 | 6.64E-10 | 9.81E-09 | 1.70E-07 | 1.70E-07 | 9.46E-08 | 4.44E-07 | 1.01E-10 | 1.46E-09 | 2.65E-08 | 2.85E-08 | 1.45E-08 | 6.91E-08 | 5.48E-11 | 7.92E-10 | 1.16E-08 | 1.16E-08 | 5.64E-09 | 3.03E-08 |
| 1013 | 258759.2 | 4084688 | 6.60E-10 | 9.54E-09 | 1.69E-07 | 1.69E-07 | 9.40E-08 | 4.41E-07 | 1.00E-10 | 1.45E-09 | 2.63E-08 | 2.63E-08 | 1.45E-08 | 6.87E-08 | 5.44E-11 | 7.87E-10 | 1.17E-08 | 1.17E-08 | 5.80E-09 | 3.01E-08 |
| 1014 | 258769.1 | 4084710 | 6.48E-10 | 9.58E-09 | 1.66E-07 | 1.66E-07 | 9.23E-08 | 4.34E-07 | 9.84E-11 | 1.43E-09 | 2.59E-08 | 2.59E-08 | 1.42E-08 | 6.75E-08 | 5.36E-11 | 7.73E-10 | 1.15E-08 | 1.15E-08 | 5.69E-09 | 2.95E-08 |
| 1015 | 258779 | 4084732 | 6.30E-10 | 9.12E-09 | 1.61E-07 | 1.61E-07 | 8.98E-08 | 4.22E-07 | 9.57E-11 | 1.39E-09 | 2.51E-08 | 2.51E-08 | 1.38E-08 | 6.56E-08 | 5.20E-11 | 7.52E-10 | 1.12E-08 | 1.12E-08 | 5.34E-09 | 2.87E-08 |
| 1016 | 258789 | 4084754 | 6.06E-10 | 8.77E-09 | 1.55E-07 | 1.35E-07 | 8.63E-08 | 4.05E-07 | 9.20E-11 | 1.34E-09 | 2.42E-08 | 2.42E-08 | 1.33E-08 | 6.31E-08 | 5.00E-11 | 7.23E-10 | 1.08E-08 | 1.08E-08 | 5.38E-09 | 2.76E-08 |
| 1017 | 258798.9 | 4084776 | 5.78E-10 | 8.35E-09 | 1.48E-07 | 1.48E-07 | 8.23E-08 | 3.86E-07 | 6.77E-11 | 1.27E-09 | 2.30E-08 | 2.30E-08 | 1.27E-08 | 6.01E-08 | 4.76E-11 | 6.89E-10 | 1.02E-08 | 1.02E-08 | 5.07E-09 | 2.63E-08 |
| 1018 | 258808.8 | 4084798 | 5.45E-10 | 7.89E-09 | 1.39E-07 | 1.39E-07 | 7.76E-08 | 3.65E-07 | 8.27E-11 | 1.20E-09 | 2.17E-08 | 2.17E-08 | 1.20E-08 | 5.67E-08 | 4.49E-11 | 6.50E-10 | 9.67E-09 | 9.67E-09 | 4.79E-09 | 2.48E-08 |
| 1019 | 258818.8 | 4084820 | 5.11E-10 | 7.38E-09 | 1.30E-07 | 1.30E-07 | 7.27E-08 | 3.41E-07 | 7.75E-11 | 1.12E-09 | 2.04E-08 | 2.04E-08 | 1.12E-08 | 5.31E-08 | 4.21E-11 | 6.09E-10 | 9.06E-09 | 9.06E-09 | 4.48E-09 | 2.32E-08 |
| 1020 | 258828.7 | 4084842 | 4.75E-10 | 6.87E-09 | 1.21E-07 | 1.21E-07 | 6.76E-08 | 3.18E-07 | 7.21E-11 | 1.05E-09 | 1.89E-08 | 1.89E-08 | 1.04E-08 | 4.94E-08 | 3.91E-11 | 5.66E-10 | 8.43E-09 | 8.43E-09 | 4.17E-09 | 2.16E-08 |
| 1021 | 258838.8 | 4084864 | 4.40E-10 | 6.36E-09 | 1.12E-07 | 1.12E-07 | 6.26E-08 | 2.94E-07 | 6.67E-11 | 9.69E-10 | 1.75E-08 | 1.75E-08 | 9.64E-09 | 4.37E-08 | 3.62E-11 | 5.24E-10 | 7.80E-09 | 7.80E-09 | 3.86E-09 | 2.00E-08 |
| 1022 | 258848.5 | 4084886 | 4.05E-10 | 5.86E-09 | 1.04E-07 | 1.04E-07 | 5.77E-08 | 2.71E-07 | 6.15E-11 | 6.93E-10 | 1.62E-08 | 1.82E-08 | 8.89E-09 | 4.22E-08 | 3.34E-11 | 4.83E-10 | 7.19E-09 | 7.19E-09 | 3.56E-09 | 1.85E-08 |
| 1023 | 258338.1 | 4084422 | 3.43E-10 | 4.96E-09 | 8.76E-08 | 8.76E-08 | 4.88E-08 | 2.29E-07 | 5.21E-11 | 7.56E-10 | 1.37E-08 | 1.37E-08 | 7.32E-09 | 3.57E-08 | 2.83E-11 | 4.09E-10 | 6.09E-09 | 6.09E-09 | 3.01E-09 | 1.56E-08 |
| 1024 | 258313.8 | 4084423 | 3.33E-10 | 4.81E-09 | 8.50E-08 | 8.50E-08 | 4.74E-08 | 2.23E-07 | 5.05E-11 | 7.33E-10 | 1.33E-08 | 1.33E-08 | 7.10E-09 | 3.46E-08 | 2.74E-11 | 3.97E-10 | 5.90E-09 | 5.90E-09 | 2.92E-09 | 1.52E-08 |
| 1025 | 258289.5 | 4084424 | 3.22E-10 | 4.66E-09 | 8.23E-08 | 8.23E-08 | 4.59E-08 | 2.15E-07 | 4.89E-11 | 7.10E-10 | 1.26E-08 | 1.28E-08 | 7.06E-09 | 3.35E-08 | 2.65E-11 | 3.84E-10 | 5.71E-09 | 5.71E-09 | 2.83E-09 | 1.47E-08 |
| 1026 | 258265.2 | 4084425 | 3.11E-10 | 4.49E-09 | 7.94E-08 | 7.94E-08 | 4.43E-08 | 2.08E-07 | 4.72E-11 | 6.85E-10 | 1.24E-08 | 1.24E-08 | 6.81E-09 | 3.23E-08 | 2.56E-11 | 3.70E-10 | 5.51E-09 | 5.51E-09 | 2.73E-09 | 1.42E-08 |
| 1027 | 258240.8 | 4084426 | 2.99E-10 | 4.32E-09 | 7.63E-08 | 7.63E-08 | 4.26E-08 | 2.00E-07 | 4.54E-11 | 6.59E-10 | 1.19E-08 | 1.19E-08 | 6.55E-09 | 3.11E-08 | 2.46E-11 | 3.56E-10 | 5.30E-09 | 5.30E-09 | 2.63E-09 | 1.36E-08 |
| 1028 | 258216.5 | 4084427 | 2.87E-10 | 4.15E-09 | 7.32E-08 | 7.32E-08 | 4.08E-08 | 1.92E-07 | 4.35E-11 | 6.32E-10 | 1.14E-08 | 1.14E-08 | 6.29E-09 | 2.98E-08 | 2.36E-11 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 823 | 257825.2 | 4084744 | 6.74E-10 | 9.75E-09 | 1.72E-07 | 1.72E-07 | 9.60E-08 | 4.51E-07 | 1.02E-10 | 1.49E-09 | 2.69E-08 | 2.69E-08 | 1.48E-08 | 7.02E-08 | 5.56E-11 | 6.04E-10 | 1.20E-08 | 1.20E-08 | 5.92E-09 | 3.07E-08 |
| 824 | 257790.8 | 4084745 | 6.06E-10 | 8.77E-09 | 1.55E-07 | 1.55E-07 | 8.63E-08 | 4.05E-07 | 9.20E-11 | 1.34E-09 | 2.42E-08 | 2.42E-08 | 1.33E-08 | 6.31E-08 | 5.00E-11 | 7.23E-10 | 1.08E-08 | 1.08E-08 | 5.32E-09 | 2.76E-08 |
| 825 | 257766.5 | 4084746 | 5.40E-10 | 7.81E-09 | 1.38E-07 | 1.38E-07 | 7.89E-08 | 3.61E-07 | 8.20E-11 | 1.19E-09 | 2.15E-08 | 2.15E-08 | 1.18E-08 | 5.62E-08 | 4.45E-11 | 6.44E-10 | 9.58E-09 | 9.58E-09 | 4.74E-09 | 2.46E-08 |
| 826 | 257742.2 | 4084747 | 4.77E-10 | 6.90E-09 | 1.22E-07 | 1.22E-07 | 6.80E-08 | 3.19E-07 | 7.24E-11 | 1.05E-09 | 1.90E-08 | 1.90E-08 | 1.05E-08 | 4.97E-08 | 3.93E-11 | 5.69E-10 | 8.47E-09 | 8.47E-09 | 4.19E-09 | 2.17E-08 |
| 827 | 257717.8 | 4084748 | 4.20E-10 | 6.07E-09 | 1.07E-07 | 1.07E-07 | 5.96E-08 | 2.81E-07 | 6.37E-11 | 9.25E-10 | 1.67E-08 | 1.67E-08 | 9.20E-09 | 4.37E-08 | 3.46E-11 | 5.01E-10 | 7.45E-09 | 7.45E-09 | 3.69E-09 | 1.91E-08 |
| 828 | 257693.5 | 4084749 | 3.69E-10 | 5.33E-09 | 9.42E-08 | 9.42E-08 | 5.25E-08 | 2.46E-07 | 5.59E-11 | 8.12E-10 | 1.47E-08 | 1.47E-08 | 8.08E-09 | 3.84E-08 | 3.04E-11 | 4.39E-10 | 6.54E-09 | 6.54E-09 | 3.24E-09 | 1.68E-08 |
| 829 | 257669.2 | 4084750 | 3.24E-10 | 4.69E-09 | 8.29E-08 | 8.29E-08 | 4.62E-08 | 2.17E-07 | 4.92E-11 | 7.15E-10 | 1.29E-08 | 1.29E-08 | 7.11E-09 | 3.37E-08 | 2.67E-11 | 3.87E-10 | 5.76E-09 | 5.76E-09 | 2.85E-09 | 1.48E-08 |
| 830 | 257644.8 | 4084751 | 2.87E-10 | 4.15E-09 | 7.33E-08 | 7.33E-08 | 4.09E-08 | 1.92E-07 | 4.36E-11 | 6.33E-10 | 1.14E-08 | 1.14E-08 | 6.29E-09 | 2.99E-08 | 2.37E-11 | 3.42E-10 | 5.09E-09 | 5.09E-09 | 2.52E-09 | 1.31E-08 |
| 831 | 257620.5 | 4084752 | 2.56E-10 | 3.71E-09 | 6.54E-08 | 6.54E-08 | 3.65E-08 | 1.71E-07 | 3.89E-11 | 5.64E-10 | 1.02E-08 | 1.02E-08 | 5.62E-09 | 2.67E-08 | 2.11E-11 | 3.05E-10 | 4.55E-09 | 4.55E-09 | 2.25E-09 | 1.17E-08 |
| 832 | 257596.2 | 4084753 | 2.31E-10 | 3.34E-09 | 5.69E-08 | 5.89E-08 | 3.29E-08 | 1.54E-07 | 3.50E-11 | 5.08E-10 | 9.20E-09 | 9.20E-09 | 5.06E-09 | 2.40E-08 | 1.90E-11 | 2.75E-10 | 4.09E-09 | 4.09E-09 | 2.03E-09 | 1.05E-08 |
| 833 | 257571.9 | 4084754 | 2.10E-10 | 3.03E-09 | 5.35E-08 | 5.35E-08 | 2.99E-08 | 1.40E-07 | 3.18E-11 | 4.62E-10 | 6.36E-09 | 6.36E-09 | 4.60E-09 | 2.18E-08 | 1.73E-11 | 2.50E-10 | 3.72E-09 | 3.72E-09 | 1.84E-09 | 9.55E-09 |
| 834 | 257547.5 | 4084755 | 1.92E-10 | 2.78E-09 | 4.91E-08 | 4.91E-08 | 2.73E-08 | 1.28E-07 | 2.91E-11 | 4.23E-10 | 7.66E-09 | 7.66E-09 | 4.21E-09 | 2.00E-08 | 1.58E-11 | 2.29E-10 | 3.41E-09 | 3.41E-09 | 1.69E-09 | 8.75E-09 |
| 835 | 258371 | 4084681 | 1.15E-09 | 1.66E-08 | 2.93E-07 | 2.93E-07 | 1.63E-07 | 7.66E-07 | 1.74E-10 | 2.52E-09 | 4.57E-08 | 4.57E-08 | 2.51E-08 | 1.19E-07 | 9.44E-11 | 1.37E-09 | 2.03E-08 | 2.03E-08 | 1.01E-08 | 5.22E-08 |
| 836 | 258393.6 | 4084689 | 1.10E-09 | 1.75E-08 | 3.06E-07 | 3.06E-07 | 1.71E-07 | 6.01E-07 | 1.82E-10 | 2.64E-09 | 4.78E-08 | 4.78E-08 | 2.63E-08 | 1.25E-07 | 9.88E-11 | 1.43E-09 | 2.13E-08 | 2.13E-08 | 1.05E-08 | 5.46E-08 |
| 837 | 258416.2 | 4084697 | 1.25E-09 | 1.80E-08 | 3.19E-07 | 3.19E-07 | 1.78E-07 | 8.34E-07 | 1.89E-10 | 2.75E-09 | 4.98E-08 | 4.98E-08 | 2.74E-08 | 1.30E-07 | 1.03E-10 | 1.49E-09 | 2.21E-08 | 2.21E-08 | 1.10E-08 | 5.66E-08 |
| 838 | 258438.8 | 4084706 | 1.29E-09 | 1.87E-08 | 3.30E-07 | 3.30E-07 | 1.84E-07 | 6.64E-07 | 1.96E-10 | 2.85E-09 | 5.15E-08 | 5.15E-08 | 2.83E-08 | 1.34E-07 | 1.06E-10 | 1.54E-09 | 2.29E-08 | 2.29E-08 | 1.13E-08 | 5.88E-08 |
| 839 | 258461.4 | 4084714 | 1.33E-09 | 1.97E-08 | 3.39E-07 | 3.39E-07 | 1.89E-07 | 6.88E-07 | 2.02E-10 | 2.93E-09 | 5.29E-08 | 5.29E-08 | 2.91E-08 | 1.38E-07 | 1.09E-10 | 1.58E-09 | 2.36E-08 | 2.36E-08 | 1.17E-08 | 6.05E-08 |
| 840 | 258484 | 4084722 | 1.35E-09 | 1.96E-08 | 3.45E-07 | 3.45E-07 | 1.92E-07 | 9.04E-07 | 2.05E-10 | 2.98E-09 | 5.39E-08 | 5.39E-08 | 2.96E-08 | 1.41E-07 | 1.11E-10 | 1.61E-09 | 2.40E-08 | 2.40E-08 | 1.19E-08 | 6.16E-08 |
| 841 | 258506.6 | 4084731 | 1.36E-09 | 1.97E-08 | 3.47E-07 | 3.47E-07 | 1.94E-07 | 9.09E-07 | 2.06E-10 | 3.00E-09 | 5.42E-08 | 5.42E-08 | 2.98E-08 | 1.47E-07 | 1.12E-10 | 1.62E-09 | 2.41E-08 | 2.41E-08 | 1.19E-08 | 6.19E-08 |
| 842 | 258539.1 | 4084761 | 1.43E-09 | 2.06E-08 | 3.65E-07 | 3.65E-07 | 2.03E-07 | 9.54E-07 | 2.17E-10 | 3.14E-09 | 5.69E-08 | 5.69E-08 | 3.13E-08 | 1.48E-07 | 1.18E-10 | 1.70E-09 | 2.53E-08 | 2.53E-08 | 1.23E-08 | 6.50E-08 |
| 843 | 258549 | 4084783 | 1.48E-09 | 2.14E-08 | 3.76E-07 | 3.78E-07 | 2.11E-07 | 9.90E-07 | 2.25E-10 | 3.26E-09 | 5.91E-08 | 5.91E-08 | 3.25E-08 | 1.54E-07 | 1.22E-10 | 1.77E-09 | 2.63E-08 | 2.63E-08 | 1.30E-08 | 6.75E-08 |
| 844 | 258558.9 | 4084805 | 1.51E-09 | 2.18E-08 | 3.85E-07 | 3.85E-07 | 2.15E-07 | 1.01E-08 | 2.29E-10 | 3.32E-09 | 6.01E-08 | 6.01E-08 | 3.30E-08 | 1.57E-07 | 1.24E-10 | 1.80E-09 | 2.67E-08 | 2.67E-08 | 1.32E-08 | 6.88E-08 |
| 845 | 258568.9 | 4084827 | 1.50E-09 | 2.17E-08 | 3.83E-07 | 3.63E-07 | 2.14E-07 | 1.00E-06 | 2.28E-10 | 3.31E-09 | 5.98E-08 | 5.98E-08 | 3.29E-08 | 1.56E-07 | 1.24E-10 | 1.79E-09 | 2.66E-08 | 2.66E-08 | 1.32E-08 | 6.83E-08 |
| 846 | 258578.8 | 4084849 | 1.46E-09 | 2.11E-08 | 3.73E-07 | 3.73E-07 | 2.08E-07 | 9.75E-07 | 2.21E-10 | 3.21E-09 | 5.82E-08 | 5.82E-08 | 3.20E-08 | 1.52E-07 | 1.20E-10 | 1.74E-09 | 2.59E-08 | 2.59E-08 | 1.28E-08 | 6.84E-08 |
| 847 | 258588.7 | 4084871 | 1.38E-09 | 2.00E-08 | 3.54E-07 | 3.54E-07 | 1.97E-07 | 9.26E-07 | 2.10E-10 | 3.05E-09 | 5.52E-08 | 5.52E-08 | 3.04E-08 | 1.44E-07 | 1.14E-10 | 1.65E-09 | 2.46E-08 | 2.46E-08 | 1.22E-08 | 6.30E-08 |
| 848 | 258598.6 | 4084893 | 1.26E-09 | 1.86E-08 | 3.28E-07 | 3.28E-07 | 1.83E-07 | 8.59E-07 | 1.95E-10 | 2.83E-09 | 5.12E-08 | 5.12E-08 | 2.82E-08 | 1.34E-07 | 1.06E-10 | 1.53E-09 | 2.28E-08 | 2.28E-08 | 1.13E-08 | 5.85E-08 |
| 849 | 258348.4 | 4084672 | 1.09E-09 | 1.58E-08 | 2.79E-07 | 2.79E-07 | 1.55E-07 | 7.29E-07 | 1.66E-10 | 2.40E-09 | 4.55E-08 | 4.35E-08 | 2.39E-08 | 1.13E-07 | 8.99E-11 | 1.30E-09 | 1.94E-08 | 1.94E-08 | 9.58E-09 | 4.97E-08 |
| 850 | 258324.1 | 4084673 | 1.09E-09 | 1.57E-08 | 2.77E-07 | 2.77E-07 | 1.55E-07 | 7.26E-07 | 1.65E-10 | 2.39E-09 | 4.33E-08 | 4.35E-08 | 2.38E-08 | 1.13E-07 | 8.95E-11 | 1.29E-09 | 1.93E-08 | 1.93E-08 | 9.54E-09 | 4.95E-08 |
| 851 | 258299.8 | 4084674 | 1.08E-09 | 1.56E-08 | 2.75E-07 | 2.75E-07 | 1.54E-07 | 7.21E-07 | 1.64E-10 | 2.38E-09 | 4.30E-08 | 4.30E-08 | 2.36E-08 | 1.12E-07 | 8.89E-11 | 1.29E-09 | 1.91E-08 | 1.91E-08 | 9.47E-09 | 4.91E-08 |
| 852 | 258275.4 | 4084675 | 1.07E-09 | 1.55E-08 | 2.73E-07 | 2.73E-07 | 1.52E-07 | 7.14E-07 | 1.62E-10 | 2.35E-09 | 4.26E-08 | 4.26E-08 | 2.34E-08 | 1.11E-07 | 8.81E-11 | 1.27E-09 | 1.90E-08 | 1.90E-08 | 9.38E-09 | 4.86E-08 |
| 853 | 258251.1 | 4084676 | 1.06E-09 | 1.53E-08 | 2.70E-07 | 2.70E-07 | 1.50E-07 | 7.06E-07 | 1.60E-10 | 2.33E-09 | 4.21E-08 | 4.21E-08 | 2.31E-08 | 1.10E-07 | 8.70E-11 | 1.26E-09 | 1.87E-08 | 1.87E-08 | 9.27E-09 | 4.81E-08 |
| 854 | 258226.8 | 4084677 | 1.04E-09 | 1.50E-08 | 2.66E-07 | 2.66E-07 | 1.48E-07 | 6.95E-07 | 1.58E-10 | 2.29E-09 | 4.15E-08 | 4.15E-08 | 2.28E-08 | 1.08E-07 | 8.57E-11 | 1.24E-09 | 1.85E-08 | 1.85E-08 | 9.13E-09 | 4.74E-08 |
| 855 | 258202.4 | 4084676 | 1.02E-09 | 1.48E-08 | 2.61E-07 | 2.61E-07 | 1.46E-07 | 6.84E-07 | 1.55E-10 | 2.25E-09 | 4.08E-08 | 4.08E-08 | 2.24E-08 | 1.06E-07 | 8.43E-11 | 1.22E-09 | 1.81E-08 | 1.81E-08 | 8.98E-09 | 4.66E-08 |
| 856 | 258178.1 | 4084679 | 1.00E-09 | 1.45E-08 | 2.56E-07 | 2.56E-07 | 1.43E-07 | 6.70E-07 | 1.52E-10 | 2.21E-09 | 4.00E-08 | 4.00E-08 | 2.20E-08 | 1.04E-07 | 8.26E-11 | 1.20E-09 | 1.78E-08 | 1.78E-08 | 8.80E-09 | 4.57E-08 |
| 857 | 258253.8 | 4084680 | 9.80E-10 | 1.42E-08 | 2.50E-07 | 2.50E-07 | 1.40E-07 | 6.55E-07 | 1.49E-10 | 2.16E-09 | 3.91E-08 | 3.91E-08 | 2.15E-08 | 1.02E-07 | 8.08E-11 | 1.17E-09 | 1.74E-08 | 1.74E-08 | 8.61E-09 | 4.46E-08 |
| 858 | 258129.4 | 4084681 | 9.56E-10 | 1.38E-08 | 2.44E-07 | 2.44E-07 | 1.36E-07 | 6.39E-07 | 1.45E-10 | 2.11E-09 | 3.81E-08 | 3.81E-08 | 2.09E-08 | 9.94E-08 | 7.86E-11 | 1.14E-09 | 1.70E-08 | 1.70E-08 | 8.39E-09 | 4.35E-08 |
| 859 | 258105.1 | 4084682 | 9.26E-10 | 1.34E-08 | 2.37E-07 | 2.37E-07 | 1.32E-07 | 6.21E-07 | 1.41E-10 | 2.05E-09 | 3.70E-08 | 3.70E-08 | 2.04E-08 | 9.66E-08 | 7.65E-11 | 1.11E-09 | 1.65E-08 | 1.65E-08 | 8.15E-09 | 4.23E-08 |
| 860 | 258080.8 | 4084683 | 8.98E-10 | 1.30E-08 | 2.29E-07 | 2.29E-07 | 1.28E-07 | 6.01E-07 | 1.36E-10 | 1.98E-09 | 3.58E-08 | 3.58E-08 | 1.97E-08 | 9.35E-08 | 7.41E-11 | 1.07E-09 | 1.59E-08 | 1.59E-08 | 7.89E-09 | 4.09E-08 |
| 861 | 258056.4 | 4084684 | 6.66E-10 | 1.25E-08 | 2.21E-07 | 2.21E-07 | 1.23E-07 | 5.79E-07 | 1.31E-10 | 1.91E-09 | 3.45E-08 | 3.45E-08 | 1.90E-08 | 9.01E-08 | 7.14E-11 | 1.03E-09 | 1.54E-08 | 1.54E-08 | 7.61E-09 | 3.94E-08 |
| 862 | 258032.1 | 4084685 | 8.31E-10 | 1.20E-08 | 2.12E-07 | 2.12E-07 | 1.18E-07 | 5.58E-07 | 1.26E-10 | 1.83E-09 | 3.31E-08 | 3.31E-08 | 1.82E-08 | 8.64E-08 | 6.85E-11 | 9.91E-10 | 1.47E-08 | 1.47E-08 | 7.30E-09 | 3.76E-08 |
| 863 | 258007.8 | 4084686 | 7.93E-10 | 1.15E-08 | 2.03E-07 | 2.03E-07 | 1.13E-07 | 5.31E-07 | 1.20E-10 | 1.75E-09 | 3.16E-08 | 3.16E-08 | 1.74E-08 | 8.25E-08 | 6.54E-11 | 9.46E-10 | 1.41E-08 | 1.41E-08 | 6.97E-09 | 3.61E-08 |
| 864 | 257983.4 | 4084687 | 7.53E-10 | 1.09E-08 | 1.92E-07 | 1.92E-07 | 1.07E-07 | 5.04E-07 | 1.14E-10 | 1.66E-09 | 3.00E-08 | 3.00E-08 | 1.65E-08 | 7.84E-08 | 6.21E-11 | 6.98E-10 | 1.34E-08 | 1.34E-08 | 6.62E-09 | 3.43E-08 |
| 865 | 257959.1 | 4084688 | 7.12E-10 | 1.03E-08 | 1.82E-07 | 1.82E-07 | 1.01E-07 | 4.76E-07 | 1.08E-10 | 1.57E-09 | 2.84E-08 | 2.84E-08 | 1.56E-08 | 7.40E-08 | 5.67E-11 | 6.46E-10 | 1.26E-08 | 1.26E-08 | 6.25E-09 | 3.24E-08 |
| 866 | 257934.8 | 4084689 | 6.68E-10 | 9.66E-09 | 1.71E-07 | 1.71E-07 | 9.51E-08 | 4.46E-07 | 1.01E-10 | 1.47E-09 | 2.66E-08 | 2.66E-08 | 1.46E-08 | 6.95E-08 | 5.50E-11 | 7.96E-10 | 1.16E-08 | 1.16E-08 | 5.86E-09 | 3.04E-08 |
| 867 | 257910.4 | 4084690 | 6.22E-10 | 8.99E-09 | 1.59E-07 | 1.59E-07 | 8.85E-08 | 4.16E-07 | 9.44E-11 | 1.37E-09 | 2.48E-08 | 2.48E-08 | 1.38E-08 | 6.47E-08 | 5.13E-11 | 7.41E-10 | 1.10E-08 | 1.10E-08 | 5.46E-09 | 2.83E-08 |
| 868 | 257886.1 | 4084691 | 5.75E-10 | 8.32E-09 | 1.47E-07 | 1.47E-07 | 8.19E-08 | 3.84E-07 | 8.73E-11 | 1.27E-09 | 2.29E-08 | 2.29E-08 | 1.26E-08 | 5.96E-08 | 4.74E-11 | 6.86E-10 | 1.02E-08 | 1.02E-08 | 5.05E-09 | 2.62E-08 |
| 869 | 257861.8 | 4084692 | 5.28E-10 | 7.64E-09 | 1.35E-07 | 1.35E-07 | 7.52E-08 | 3.53E-07 | 8.01E-11 | 1.16E-09 | 2.11E-08 | 2.11E-08 | 1.16E-08 | 5.49E-08 | 4.35E-11 | 6.29E-10 | 9.37E-09 | 9.37E-09 | 4.64E-09 | 2.40E-08 |
| 870 | 257837.4 | 4084693 | 4.81E-10 | 6.96E-09 | 1.23E-07 | 1.23E-07 | 6.85E-08 | 3.22E-07 | 7.30E-11 | 1.06E-09 | 1.92E-08 | 1.92E-08 | 1.05E-08 | 5.01E-08 | 3.97E-11 | 5.74E-10 | 8.54E-09 | 8.54E-09 | 4.23E-09 | 2.19E-08 |
| 871 | 257813.1 | 4084694 | 4.36E-10 | 6.30E-09 | 1.11E-07 | 1.11E-07 | 6.21E-08 | 2.91E-07 | 6.61E-11 | 9.60E-10 | 1.74E-08 | 1.74E-08 | 9.55E-09 | 4.53E-08 | 3.59E-11 | 5.20E-10 | 7.73E-09 | 7.73E-09 | 3.83E-09 | 1.98E-08 |
| 872 | 257788.8 | 4084695 | 3.93E-10 | 5.86E-09 | 1.00E-07 | 1.00E-07 | 5.59E-08 | 2.62E-07 | 5.96E-11 | 8.65E-10 | 1.57E-08 | 1.57E-08 | 8.61E-09 | 4.08E-08 | 3.24E-11 | 4.68E-10 | 6.96E-09 | 6.96E-09 | 3.45E-09 | 1.79E-08 |
| 873 | 257764.5 | 4084696 | 3.52E-10 | 5.09E-09 | 8.99E-08 | 8.99E-08 | 5.01E-08 | 2.35E-07 | 5.34E-11 | 7.76E-10 | 1.40E-08 | 1.40E-08 | 7.72E-09 | 3.66E-08 | 2.90E-11 | 4.20E-10 | 6.25E-09 | 6.25E-09 | 3.09E-09 | 1.60E-08 |
| 874 | 257740.1 | 4084697 | 3.15E-10 | 4.56E-09 | 8.05E-08 | 8.05E-08 | 4.49E-08 | 2.11E-07 | 4.79E-11 | 6.95E-10 | 1.26E-08 | 1.26E-08 | 6.91E-09 | 3.28E-08 | 2.60E-11 | 3.76E-10 | 5.60E-09 | 5.60E-09 | 2.77E-09 | 1.44E-08 |
| 875 | 257715.8 | 4084698 | 2.82E-10 | 4.09E-09 | 7.21E-08 | 7.21E-08 | 4.02E-08 | 1.89E-07 | 4.29E-11 | 6.22E-10 | 1.13E-08 | 1.13E-08 | 6.19E-09 | 2.94E-08 | 2.33E-11 | 3.37E-10 | 5.01E-09 | 5.01E-09 | 2.48E-09 | 1.29E-08 |
| 876 | 257691.5 | 4084699 | 2.54E-10 | 3.67E-09 | 6.48E-08 | 6.48E-08 | 3.61E-08 | 1.70E-07 | 3.85E-11 | 5.59E-10 | 1.01E-08 | 1.01E-08 | 5.56E-09 | 2.64E-08 | 2.09E-11 | 3.02E-10 | 4.50E-09 | 4.50E-09 | 2.23E-09 | 1.16E-08 |
| 877 | 257667.1 | 4084700 | 2.29E-10 | 3.31E-09 | 5.84E-08 | 5.84E-08 | 3.26E-08 | 1.53E-07 | 3.47E-11 | 5.04E-10 | 9.12E-09 | 9.12E-09 | 5.01E-09 | 2.38E-08 | 1.89E-11 | 2.73E-10 | 4.06E-09 | 4.06E-09 | 2.01E-09 | 1.04E-08 |
| 878 | 257842.8 | 4084701 | 2.07E-10 | 3.00E-09 | 5.30E-08 | 5.30E-08 | 2.95E-08 | 1.39E-07 | 3.15E-11 | 4.57E-10 | 6.27E-09 | 6.27E-09 | 4.55E-09 | 2.16E-08 | 1.71E-11 | 2.47E-10 | 3.88E-09 | 3.88E-09 | 1.82E-09 | 9.45E-09 |
| 879 | 257618.5 | 4084702 | 1.89E-10 | 2.74E-09 | 4.84E-08 | 4.84E-08 | 2.70E-08 | 1.27E-07 | 2.86E-11 | 4.17E-10 | 7.55E-09 | 7.55E-09 | 4.15E-09 | 1.97E-08 | 1.56E-11 | 2.26E-10 | 3.36E-09 | 3.36E-09 | 1.66E-09 | 6.63E-09 |
| 880 | 257594.1 | 4084703 | 1.74E-10 | 2.52E-09 | 4.45E-08 | 4.45E-08 | 2.48E-08 | 1.16E-07 | 2.64E-11 | 3.84E-10 | 6.94E-09 | 6.94E-09 | 3.82E-09 | 1.81E-08 | 1.43E-11 | 2.08E-10 | 3.09E-09 | 3.09E-09 | 1.53E-09 | 7.93E-09 |
| 881 | 257569.8 | 4084704 | 1.61E-10 | 2.33E-09 | 4.11E-08 | 4.11E-08 | 2.29E-08 | 1.08E-07 | 2.44E-11 | 3.55E-10 | 6.42E-09 | 6.42E-09 | 3.53E-09 | 1.67E-08 | 1.33E-11 | 1.92E-10 | 2.86E-09 | 2.86E-09 | 1.41E-09 | 7.33E-09 |
| 882 | 257545.5 | 4084705 | 1.50E-10 | 2.16E-09 | 3.82E-08 | 3.82E-08 | 2.13E-08 | 1.00E-07 | 2.27E-11 | 3.30E-10 | 5.97E-09 | 5.97E-09 | 3.28E-09 | 1.56E-08 | 1.23E-11 | 1.76E-10 | 2.65E-09 | 2.65E-09 | 1.31E-09 | 6.81E-09 |
| 883 | 258368 | 4084630 | 8.92E-10 | 1.29E-08 | 2.28E-07 | 2.28E-07 | 1.27E-07 | 5.97E-07 | 1.55E-10 | 1.97E-09 | 3.56E-08 | 3.56E-08 | 1.96E-08 | 9.28E-08 | 7.35E-11 | 1.06E-09 | 1.58E-08 | 1.58E-08 | 7.84E-09 | 4.06E-08 |
| 884 | 258389.7 | 4084636 | 9.34E-10 | 1.35E-08 | 2.39E-07 | 2.39E-07 | 1.33E-07 | 6.25E-07 | 1.42E-10 | 2.06E-09 | 3.72E-08 | 3.72E-08 | 2.05E-08 | 9.72E-08 | 7.70E-11 | 1.11E-09 | 1.66E-08 | 1.66E-08 | 8.20E-09 | 4.25E-08 |
| 885 | 258411.4 | 4084646 | 9.74E-10 | 1.41E-08 | 2.49E-07 | 2.49E-07 | 1.39E-07 | 6.51E-07 | 1.48E-10 | 2.15E-09 | 3.89E-08 | 3.89E-08 | 2.14E-08 | 1.01E-07 | 8.03E-11 | 1.16E-09 | 1.73E-08 | 1.73E-08 | 8.56E-09 | 4.44E-08 |
| 886 | 258433.1 | 4084654 | 1.01E-09 | 1.46E-08 | 2.59E-07 | 2.59E-07 | 1.44E-07 | 6.77E-07 | 1.54E-10 | 2.23E-09 | 4.04E-08 | 4.04E-08 | 2.22E-08 | 1.05E-07 | 8.34E-11 | 1.21E-09 | 1.80E-08 | 1.80E-08 | 8.89E-09 | 4.61E-08 |
| 887 | 258454.8 | 4084662 | 1.05E-09 | 1.51E-08 | 2.67E-07 | 2.67E-07 | 1.49E-07 | 7.00E-07 | 1.59E-10 | 2.31E-09 | 4.17E-08 | 4.17E-08 | 2.29E-08 | 1.09E-07 | 8.63E-11 | 1.25E-09 | 1.86E-08 | 1.86E-08 | 9.19E-09 | 4.77E-08 |
| 888 | 258476.5 | 4084670 | 1.08E-09 | 1.56E-08 | 2.75E-07 | 2.75E-07 | 1.53E-07 | 7.20E-07 | 1.63E-10 | 2.37E-09 | 4.29E-08 | 4.29E-08 | 2.36E-08 | 1.12E-07 | 8.87E-11 | 1.28E-09 | 1.91E-08 | 1.91E-08 | 9.45E-09 | 4.90E-08 |
| 889 | 258498.2 | 4084679 | 1.10E-09 | 1.59E-08 | 2.81E-07 | 2.81E-07 | 1.56E-07 | 7.35E-07 | 1.67E-10 | 2.42E-09 | 4.38E-08 | 4.38E-08 | 2.41E-08 | 1.14E-07 | 9.06E-11 | 1.31E-09 | 1.95E-08 | 1.95E-08 | 9.85E-09 | 5.01E-08 |
| 890 | 258519.9 | 4084687 | 1.11E-09 | 1.61E-08 | 2.84E-07 | 2.84E-07 | 1.59E-07 | 7.44E-07 | 1.69E-10 | 2.45E-09 | 4.44E-08 | 4.44E-08 | 2.44E-08 | 1.16E-07 | 9.16E-11 | 1.33E-09 | 1.98E-08 | 1.98E-08 | 9.76E-09 | 5.07E-08 |
| 891 | 258541.5 | 4084695 | 1.12E-09 | 1.62E-08 | 2.85E-07 | 2.85E-07 | 1.59E-07 | 7.47E-07 | 1.70E-10 | 2.46E-09 | 4.46E-08 | 4.46E-08 | 2.45E-08 | 1.16E-07 | 9.21E-11 | 1.33E-09 | 1.98E-08 | 1.98E-08 | 9.81E-09 | 5.09E-08 |
| 892 | 258572.8 | 4084724 | 1.16E-09 | 1.68E-08 | 2.97E-07 | 2.97E-07 | 1.66E-07 | 7.79E-07 | 1.77E-10 | 2.57E-09 | 4.64E-08 | 4.64E-08 | 2.55E-08 | 1.21E-07 | 9.60E-11 | 1.39E-09 | 2.07E-08 | 2.07E-08 | 1.02E-08 | 5.30E-08 |
| 893 | 258582.3 | 4084745 | 1.21E-09 | 1.75E-08 | 3.08E-07 | 3.08E-07 | 1.72E-07 | 8.07E-07 | 1.83E-10 | 2.66E-09 | 4.81E-08 | 4.61E-08 | 2.65E-08 | 1.26E-07 | 9.95E-11 | 1.44E-09 | 2.14E-08 | 2.14E-08 | 1.06E-08 | 5.50E-08 |
| 894 | 258591.8 | 4084766 | 1.23E-09 | 1.78E-08 | 3.14E-07 | 3.14E-07 | 1.75E-07 | 8.21E-07 | 1.86E-10 | 2.71E-09 | 4.90E-08 | 4.90E-08 | 2.69E-08 | 1.28E-07 | 1.01E-10 | 1.46E-09 | 2.18E-08 | 2.18E-08 | 1.06E-08 | 5.59E-08 |
| 895 | 258601.4 | 4084787 | 1.23E-09 | 1.79E-08 | 3.15E-07 | 3.25E-07 | 1.76E-07 | 6.25E-07 | 1.87E-10 | 2.72E-09 | 4.92E-08 | 4.92E-08 | 2.71E-08 | 1.28E-07 | 1.02E-10 | 1.47E-09 | 2.19E-08 | 2.19E-08 | 1.08E-08 | 5.62E-08 |
| 896 | 258610.9 | 4084808 | 1.22E-09 | 1.76E-08 | 3.11E-07 | 3.11E-07 | 1.73E-07 | 8.15E-07 | 1.85E-10 | 2.68E-09 | 4.86E-08 | 4.86E-08 | 2.67E-08 | 1.27E-07 | 1.00E-10 | 1.45E-09 | 2.16E-08 | 2.16E-08 | 1.07E-08 | 5.55E-08 |
| 897 | 258620.4 | 4084829 | 1.18E-09 | 1.71E-08 | 3.01E-07 | 3.01E-07 | 1.68E-07 | 7.89E-07 | 1.79E-10 | 2.60E-09 | 4.71E-08 | 4.71E-08 | 2.59E-08 | 1.23E-07 | 9.73E-11 | 1.41E-09 | 2.09E-08 | 2.09E-08 | 1.04E-08 | 5.38E-08 |
| 898 | 258630 | 4084850 | 1.12E-09 | 1.62E-08 | 2.87E-07 | 2.87E-07 | 1.60E-07 | 7.51E-07 | 1.70E-10 | 2.47E-09 | 4.48E-08 | 4.48E-08 | 2.46E-08 | 1.17E-07 | 9.26E-11 | 1.34E-09 | 1.99E-08 | 1.99E-08 | 9.86E-09 | 5.11E-08 |
| 899 | 258639.5 | 4084871 | 1.05E-09 | 1.52E-08 | 2.68E-07 | 2.68E-07 | 1.50E-07 | 7.03E-07 | 1.59E-10 | 2.32E-09 | 4.19E-08 | 4.19E-08 | 2.30E-08 | 1.09E-07 | 8.66E-11 | 1.25E-09 | 1.88E-08 | 1.88E-08 | 9.23E-09 | 4.79E-08 |
| 900 | 258649 | 4084892 | 9.68E-10 | 1.40E-08 | 2.47E-07 | 2.47E-07 | 1.38E-07 | 6.48E-07 | 1.47E-10 | 2.13E-09 | 3.86E-08 | 3.86E-08 | 2.12E-08 | 1.01E-07 | 7.98E-11 | 1.15E-09 | 1.72E-08 | 1.72E-08 | 8.51E-09 | 4.41E-08 |
| 901 | 258346.4 | 4084622 | 8.49E-10 | 1.23E-08 | 2.17E-07 | 2.17E-07 | 1.21E-07 | 5.68E-07 | 1.29E-10 | 1.87E-09 | 3.39E-08 | 3.39E-08 | 1.86E-08 | 8.84E-08 | 7.00E-11 | 1.01E-09 | 1.51E-08 | 1.51E-08 | 7.46E-09 | 3.87E-08 |
| 902 | 258322 | 4084623 | 8.41E-10 | 1.22E-08 | 2.15E-07 | 2.15E-07 | 1.20E-07 | 5.62E-07 | 1.28E-10 | 1.85E-09 | 3.35E-08 | 3.35E-08 | 1.84E-08 | 8.75E-08 | 6.93E-11 | 1.00E-09 | 1.49E-08 | 1.49E-08 | 7.39E-09 | 3.83E-08 |
| 903 | 258297.7 | 4084624 | 8.31E-10 | 1.20E-08 | 2.12E-07 | 2.12E-07 | 1.18E-07 | 5.56E-07 | 1.26E-10 | 1.83E-09 | 3.31E-08 | 3.31E-08 | 1.82E-08 | 8.64E-08 | 6.85E-11 | 9.90E-10 | 1.47E-08 | 1.47E-08 | 7.30E-09 | 3.78E-08 |
| 904 | 258273.4 | 4084625 | 8.19E-10 | 1.18E-08 | 2.09E-07 | 2.09E-07 | 1.17E-07 | 5.47E-07 | 1.24E-10 | 1.80E-09 | 3.26E-08 | 3.26E-08 | 1.79E-08 | 8.52E-08 | 6.75E-11 | 9.76E-10 | 1.45E-08 | 1.45E-08 | 7.19E-09 | 3.73E-08 |
| 905 | 258249 | 4084626 | 6.04E-10 | 1.16E-08 | 2.05E-07 | 2.05E-07 | 1.14E-07 | 5.38E-07 | 1.22E-10 | 1.77E-09 | 3.21E-08 | 3.21E-08 | 1.76E-08 | 8.37E-08 | 6.63E-11 | 9.59E-10 | 1.43E-08 | 1.43E-08 | 7.06E-09 | 3.66E-08 |
| 906 | 258224.7 | 4084627 | 7.88E-10 | 1.14E-08 | 2.01E-07 | 2.01E-07 | 1.12E-07 | 5.27E-07 | 1.20E-10 | 1.74E-09 | 3.14E-08 | 3.14E-08 | 1.73E-08 | 8.20E-08 | 6.50E-11 | 9.40E-10 | 1.40E-08 | 1.40E-08 | 6.92E-09 | 3.59E-08 |
| 907 | 258200.4 | 4084628 | 7.70E-10 | 1.11E-08 | 1.97E-07 | 1.97E-07 | 1.10E-07 | 5.15E-07 | 1.17E-10 | 1.70E-09 | 3.07E-08 | 3.07E-08 | 1.69E-08 | 6.01E-08 | 6.35E-11 | 9.16E-10 | 1.37E-08 | 1.37E-08 | 6.76E-09 | 3.51E-08 |
| 908 | 258176 | 4084629 | 7.50E-10 | 1.08E-08 | 1.92E-07 | 1.92E-07 | 1.07E-07 | 5.01E-07 | 1.14E-10 | 1.65E-09 | 2.99E-08 | 2.99E-08 | 1.64E-08 | 7.80E-08 | 6.18E-11 | 8.94E-10 | 1.33E-08 | 1.33E-08 | 6.59E-09 | 3.41E-08 |
| 909 | 258251.7 | 4084630 | 7.28E-10 | 1.05E-08 | 1.86E-07 | 1.86E-07 | 1.04E-07 | 4.87E-07 | 1.10E-10 | 1.60E-09 | 2.90E-08 | 2.90E-08 | 1.60E-08 | 7.57E-08 | 6.00E-11 | 8.68E-10 | 1.29E-08 | 1.29E-08 | 6.39E-09 | 3.32E-08 |
| 910 | 258127.4 | 4084631 | 7.04E-10 | 1.02E-08 | 1.80E-07 | 1.80E-07 | 1.00E-07 | 4.71E-07 | 1.07E-10 | 1.55E-09 | 2.81E-08 | 2.81E-08 | 1.54E-08 | 7.33E-08 | 5.81E-11 | 8.40E-10 | 1.25E-08 | 1.

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 705 | 257844.6 | 4084868 | 2.89E-09 | 4.18E-08 | 7.59E-07 | 7.39E-07 | 4.12E-07 | 1.93E-06 | 4.59E-10 | 6.37E-09 | 1.15E-07 | 1.15E-07 | 6.34E-08 | 3.01E-07 | 2.38E-10 | 3.45E-09 | 5.13E-08 | 5.13E-08 | 2.54E-08 | 1.32E-07 |
| 706 | 257620.3 | 4084869 | 2.75E-09 | 3.98E-08 | 7.03E-07 | 7.03E-07 | 3.92E-07 | 1.84E-06 | 4.17E-10 | 6.06E-09 | 1.10E-07 | 1.10E-07 | 6.03E-08 | 2.86E-07 | 2.27E-10 | 3.28E-09 | 4.88E-08 | 4.88E-08 | 2.42E-08 | 1.25E-07 |
| 707 | 257796 | 4084870 | 2.59E-09 | 3.74E-08 | 6.61E-07 | 6.61E-07 | 3.69E-07 | 1.73E-06 | 3.93E-10 | 5.70E-09 | 1.03E-07 | 1.03E-07 | 5.66E-08 | 2.69E-07 | 2.13E-10 | 3.09E-09 | 4.59E-08 | 4.59E-08 | 2.27E-08 | 1.18E-07 |
| 708 | 257771.6 | 4084871 | 2.40E-09 | 3.48E-08 | 6.14E-07 | 6.14E-07 | 3.42E-07 | 1.61E-06 | 3.65E-10 | 5.30E-09 | 9.59E-08 | 9.59E-08 | 5.27E-08 | 2.50E-07 | 1.98E-10 | 2.87E-09 | 4.27E-08 | 4.27E-08 | 2.11E-08 | 1.10E-07 |
| 709 | 257747.3 | 4084872 | 2.20E-09 | 3.18E-08 | 5.61E-07 | 5.61E-07 | 3.13E-07 | 1.47E-06 | 3.33E-10 | 4.84E-09 | 8.78E-08 | 8.76E-08 | 4.82E-08 | 2.28E-07 | 1.81E-10 | 2.62E-09 | 3.90E-08 | 3.90E-08 | 1.93E-08 | 1.00E-07 |
| 710 | 257723 | 4084873 | 1.96E-09 | 2.84E-08 | 5.02E-07 | 5.02E-07 | 2.80E-07 | 1.31E-06 | 2.98E-10 | 4.33E-09 | 7.83E-08 | 7.83E-08 | 4.51E-08 | 2.04E-07 | 1.62E-10 | 2.34E-09 | 3.48E-08 | 3.48E-08 | 1.72E-08 | 8.94E-08 |
| 711 | 257698.6 | 4084874 | 1.71E-09 | 2.47E-08 | 4.37E-07 | 4.37E-07 | 2.44E-07 | 1.14E-06 | 2.60E-10 | 3.77E-09 | 6.82E-08 | 6.82E-08 | 3.75E-08 | 1.78E-07 | 1.41E-10 | 2.04E-09 | 3.03E-08 | 3.03E-08 | 1.50E-08 | 7.29E-08 |
| 712 | 257674.5 | 4084875 | 1.44E-09 | 2.08E-08 | 3.68E-07 | 3.68E-07 | 2.05E-07 | 9.63E-07 | 2.19E-10 | 3.17E-09 | 5.75E-08 | 5.75E-08 | 3.16E-08 | 1.50E-07 | 1.19E-10 | 1.72E-09 | 2.56E-08 | 2.56E-08 | 1.27E-08 | 6.56E-08 |
| 713 | 257650 | 4084876 | 1.17E-09 | 1.69E-08 | 2.99E-07 | 2.99E-07 | 1.66E-07 | 7.82E-07 | 1.77E-10 | 2.58E-09 | 4.66E-08 | 4.66E-08 | 2.56E-08 | 1.22E-07 | 9.84E-11 | 1.39E-09 | 2.07E-08 | 2.07E-08 | 1.03E-08 | 5.32E-08 |
| 714 | 257625.6 | 4084877 | 9.18E-10 | 1.33E-08 | 2.34E-07 | 2.34E-07 | 1.51E-07 | 6.14E-07 | 1.39E-10 | 2.02E-09 | 3.66E-08 | 3.66E-08 | 2.01E-08 | 9.55E-08 | 7.56E-11 | 1.09E-09 | 1.63E-08 | 1.63E-08 | 8.06E-09 | 4.16E-08 |
| 715 | 257601.5 | 4084878 | 7.12E-10 | 1.03E-08 | 1.82E-07 | 1.82E-07 | 1.01E-07 | 4.78E-07 | 1.08E-10 | 1.57E-09 | 2.84E-08 | 2.84E-08 | 1.56E-08 | 7.41E-08 | 5.87E-11 | 8.49E-10 | 1.26E-08 | 1.26E-08 | 6.26E-09 | 3.24E-08 |
| 716 | 257572 | 4084879 | 5.67E-10 | 8.20E-09 | 1.45E-07 | 1.45E-07 | 8.07E-08 | 3.79E-07 | 6.60E-11 | 1.25E-09 | 2.26E-08 | 2.26E-08 | 1.24E-08 | 5.90E-08 | 4.67E-11 | 6.76E-10 | 1.01E-08 | 1.01E-08 | 4.98E-09 | 2.58E-08 |
| 717 | 257552.7 | 4084880 | 4.71E-10 | 6.81E-09 | 1.20E-07 | 1.20E-07 | 6.70E-08 | 3.15E-07 | 7.14E-11 | 1.04E-09 | 1.88E-08 | 1.88E-08 | 1.03E-08 | 4.90E-08 | 3.88E-11 | 5.61E-10 | 8.35E-09 | 8.35E-09 | 4.13E-09 | 2.14E-08 |
| 718 | 258372.7 | 4084839 | 2.66E-09 | 4.17E-08 | 7.57E-07 | 7.37E-07 | 4.11E-07 | 1.93E-06 | 4.38E-10 | 6.36E-09 | 1.15E-07 | 1.15E-07 | 6.52E-08 | 3.00E-07 | 2.38E-10 | 3.44E-09 | 5.12E-08 | 5.12E-08 | 2.53E-08 | 1.31E-07 |
| 719 | 258408.8 | 4084842 | 3.04E-09 | 4.40E-08 | 7.72E-07 | 7.77E-07 | 4.33E-07 | 2.04E-06 | 4.62E-10 | 6.71E-09 | 1.21E-07 | 1.21E-07 | 6.67E-08 | 3.17E-07 | 2.51E-10 | 3.63E-09 | 5.40E-08 | 5.40E-08 | 2.67E-08 | 1.39E-07 |
| 720 | 258434.8 | 4084866 | 3.29E-09 | 4.75E-08 | 8.39E-07 | 8.39E-07 | 4.88E-07 | 2.20E-06 | 4.99E-10 | 7.24E-09 | 1.31E-07 | 1.31E-07 | 7.20E-08 | 3.42E-07 | 2.71E-10 | 3.92E-09 | 5.83E-08 | 5.83E-08 | 2.89E-08 | 1.50E-07 |
| 721 | 258330.2 | 4084823 | 2.80E-09 | 4.05E-08 | 7.16E-07 | 7.16E-07 | 3.99E-07 | 1.87E-06 | 4.25E-10 | 6.17E-09 | 1.12E-07 | 1.12E-07 | 6.14E-08 | 2.92E-07 | 2.51E-10 | 3.34E-09 | 4.97E-08 | 4.97E-08 | 2.46E-08 | 1.28E-07 |
| 722 | 258305.9 | 4084824 | 2.83E-09 | 4.09E-08 | 7.23E-07 | 7.23E-07 | 4.03E-07 | 1.89E-06 | 4.29E-10 | 6.23E-09 | 1.13E-07 | 1.13E-07 | 6.20E-08 | 2.94E-07 | 2.33E-10 | 3.37E-09 | 5.02E-08 | 5.02E-08 | 2.48E-08 | 1.29E-07 |
| 723 | 258281.8 | 4084825 | 2.85E-09 | 4.12E-08 | 7.27E-07 | 7.27E-07 | 4.05E-07 | 1.90E-06 | 4.32E-10 | 6.27E-09 | 1.13E-07 | 1.13E-07 | 6.24E-08 | 2.96E-07 | 2.35E-10 | 3.39E-09 | 5.05E-08 | 5.05E-08 | 2.50E-08 | 1.30E-07 |
| 724 | 258257.3 | 4084826 | 2.66E-09 | 4.13E-08 | 7.29E-07 | 7.29E-07 | 4.07E-07 | 1.91E-06 | 4.33E-10 | 6.29E-09 | 1.14E-07 | 1.14E-07 | 6.26E-08 | 2.97E-07 | 2.55E-10 | 3.40E-09 | 5.07E-08 | 5.07E-08 | 2.51E-08 | 1.30E-07 |
| 725 | 258232.9 | 4084827 | 2.86E-09 | 4.14E-08 | 7.30E-07 | 7.30E-07 | 4.07E-07 | 1.91E-06 | 4.34E-10 | 6.30E-09 | 1.14E-07 | 1.14E-07 | 6.27E-08 | 2.98E-07 | 2.36E-10 | 3.41E-09 | 5.07E-08 | 5.07E-08 | 2.51E-08 | 1.30E-07 |
| 726 | 258208.8 | 4084828 | 2.86E-09 | 4.14E-08 | 7.30E-07 | 7.30E-07 | 4.07E-07 | 1.91E-06 | 4.34E-10 | 6.30E-09 | 1.14E-07 | 1.14E-07 | 6.27E-08 | 2.98E-07 | 2.36E-10 | 3.41E-09 | 5.07E-08 | 5.07E-08 | 2.51E-08 | 1.30E-07 |
| 727 | 258164.5 | 4084829 | 2.65E-09 | 4.15E-08 | 7.29E-07 | 7.29E-07 | 4.06E-07 | 1.91E-06 | 4.53E-10 | 6.29E-09 | 1.14E-07 | 1.14E-07 | 6.26E-08 | 2.97E-07 | 2.35E-10 | 3.40E-09 | 5.06E-08 | 5.06E-08 | 2.51E-08 | 1.30E-07 |
| 728 | 258159.9 | 4084830 | 2.84E-09 | 4.11E-08 | 7.27E-07 | 7.27E-07 | 4.05E-07 | 1.90E-06 | 4.32E-10 | 6.27E-09 | 1.15E-07 | 1.13E-07 | 6.24E-08 | 2.96E-07 | 2.34E-10 | 3.39E-09 | 5.05E-08 | 5.05E-08 | 2.50E-08 | 1.30E-07 |
| 729 | 258135.8 | 4084831 | 2.83E-09 | 4.09E-08 | 7.23E-07 | 7.23E-07 | 4.03E-07 | 1.89E-06 | 4.30E-10 | 6.24E-09 | 1.13E-07 | 1.13E-07 | 6.20E-08 | 2.94E-07 | 2.53E-10 | 3.57E-09 | 5.02E-08 | 5.02E-08 | 2.49E-08 | 1.29E-07 |
| 730 | 258111.5 | 4084832 | 2.81E-09 | 4.06E-08 | 7.18E-07 | 7.18E-07 | 4.00E-07 | 1.88E-06 | 4.27E-10 | 6.19E-09 | 1.12E-07 | 1.12E-07 | 6.16E-08 | 2.92E-07 | 2.52E-10 | 3.35E-09 | 4.99E-08 | 4.99E-08 | 2.47E-08 | 1.28E-07 |
| 731 | 258086.9 | 4084833 | 2.29E-09 | 4.03E-08 | 7.11E-07 | 7.11E-07 | 3.97E-07 | 1.86E-06 | 4.23E-10 | 6.14E-09 | 1.11E-07 | 1.11E-07 | 6.11E-08 | 2.90E-07 | 2.30E-10 | 3.52E-09 | 4.94E-08 | 4.94E-08 | 2.45E-08 | 1.27E-07 |
| 732 | 258062.6 | 4084834 | 2.76E-09 | 3.98E-08 | 7.04E-07 | 7.04E-07 | 3.92E-07 | 1.84E-06 | 4.18E-10 | 6.07E-09 | 1.10E-07 | 1.10E-07 | 6.04E-08 | 2.87E-07 | 2.27E-10 | 3.28E-09 | 4.89E-08 | 4.89E-08 | 2.42E-08 | 1.25E-07 |
| 753 | 258038.3 | 4084835 | 2.72E-09 | 3.93E-08 | 6.94E-07 | 6.94E-07 | 3.87E-07 | 1.82E-06 | 4.15E-10 | 5.99E-09 | 1.08E-07 | 1.08E-07 | 5.96E-08 | 2.83E-07 | 2.24E-10 | 3.24E-09 | 4.82E-08 | 4.82E-08 | 2.39E-08 | 1.24E-07 |
| 734 | 258013.9 | 4084836 | 2.68E-09 | 3.87E-08 | 6.83E-07 | 6.83E-07 | 3.81E-07 | 1.29E-06 | 4.06E-10 | 5.89E-09 | 1.07E-07 | 1.07E-07 | 5.87E-08 | 2.78E-07 | 2.21E-10 | 3.19E-09 | 4.75E-08 | 4.75E-08 | 2.35E-08 | 1.22E-07 |
| 735 | 257989.8 | 4084837 | 2.61E-09 | 3.80E-08 | 6.70E-07 | 6.70E-07 | 3.74E-07 | 1.76E-06 | 3.98E-10 | 5.78E-09 | 1.05E-07 | 1.05E-07 | 5.75E-08 | 2.75E-07 | 2.16E-10 | 3.15E-09 | 4.66E-08 | 4.66E-08 | 2.31E-08 | 1.20E-07 |
| 736 | 257965.3 | 4084838 | 2.57E-09 | 3.71E-08 | 6.55E-07 | 6.55E-07 | 3.65E-07 | 1.72E-06 | 3.89E-10 | 5.65E-09 | 1.02E-07 | 1.02E-07 | 5.63E-08 | 2.67E-07 | 2.12E-10 | 3.06E-09 | 4.55E-08 | 4.55E-08 | 2.25E-08 | 1.17E-07 |
| 737 | 257940.9 | 4084839 | 2.50E-09 | 3.61E-08 | 6.38E-07 | 6.38E-07 | 3.56E-07 | 1.67E-06 | 3.79E-10 | 5.51E-09 | 9.96E-08 | 9.96E-08 | 5.48E-08 | 2.60E-07 | 2.06E-10 | 2.98E-09 | 4.43E-08 | 4.43E-08 | 2.19E-08 | 1.14E-07 |
| 738 | 257916.6 | 4084840 | 2.42E-09 | 3.50E-08 | 6.18E-07 | 6.18E-07 | 3.45E-07 | 1.62E-06 | 3.67E-10 | 5.53E-09 | 9.65E-08 | 9.65E-08 | 5.31E-08 | 2.52E-07 | 2.00E-10 | 2.89E-09 | 4.30E-08 | 4.30E-08 | 2.13E-08 | 1.10E-07 |
| 739 | 257892.3 | 4084841 | 2.33E-09 | 3.37E-08 | 5.96E-07 | 5.96E-07 | 3.32E-07 | 1.56E-06 | 3.54E-10 | 5.14E-09 | 9.30E-08 | 9.30E-08 | 5.11E-08 | 2.43E-07 | 1.92E-10 | 2.78E-09 | 4.14E-08 | 4.14E-08 | 2.05E-08 | 1.06E-07 |
| 740 | 257867.9 | 4084842 | 2.23E-09 | 3.23E-08 | 5.70E-07 | 5.70E-07 | 3.18E-07 | 1.49E-06 | 3.39E-10 | 4.92E-09 | 8.90E-08 | 8.90E-08 | 4.89E-08 | 2.32E-07 | 1.84E-10 | 2.66E-09 | 3.96E-08 | 3.96E-08 | 1.96E-08 | 1.02E-07 |
| 741 | 257843.6 | 4084843 | 2.12E-09 | 3.06E-08 | 5.41E-07 | 5.41E-07 | 3.01E-07 | 1.42E-06 | 3.21E-10 | 4.66E-09 | 8.44E-08 | 8.44E-08 | 4.64E-08 | 2.20E-07 | 1.74E-10 | 2.52E-09 | 3.76E-08 | 3.76E-08 | 1.66E-08 | 9.84E-08 |
| 742 | 257819.3 | 4084844 | 1.99E-09 | 2.87E-08 | 5.08E-07 | 5.08E-07 | 2.83E-07 | 1.33E-06 | 3.02E-10 | 4.38E-09 | 7.93E-08 | 7.93E-08 | 4.36E-08 | 2.07E-07 | 1.64E-10 | 2.37E-09 | 3.53E-08 | 3.53E-08 | 1.75E-08 | 9.05E-08 |
| 743 | 257794.9 | 4084845 | 1.84E-09 | 2.67E-08 | 4.71E-07 | 4.71E-07 | 2.63E-07 | 1.23E-06 | 2.80E-10 | 4.06E-09 | 7.35E-08 | 7.35E-08 | 4.04E-08 | 1.92E-07 | 1.52E-10 | 2.20E-09 | 3.27E-08 | 3.27E-08 | 1.62E-08 | 8.40E-08 |
| 744 | 257770.6 | 4084846 | 1.69E-09 | 2.44E-08 | 4.31E-07 | 4.31E-07 | 2.40E-07 | 1.13E-06 | 2.56E-10 | 3.71E-09 | 6.72E-08 | 6.72E-08 | 3.70E-08 | 1.75E-07 | 1.39E-10 | 2.01E-09 | 2.99E-08 | 2.99E-08 | 1.48E-08 | 7.68E-08 |
| 745 | 257746.3 | 4084847 | 1.51E-09 | 2.19E-08 | 3.87E-07 | 3.87E-07 | 2.16E-07 | 1.01E-06 | 2.30E-10 | 3.34E-09 | 6.04E-08 | 6.04E-08 | 3.32E-08 | 1.58E-07 | 1.25E-10 | 1.81E-09 | 2.69E-08 | 2.69E-08 | 1.33E-08 | 6.90E-08 |
| 746 | 257722 | 4084848 | 1.33E-09 | 1.93E-08 | 3.40E-07 | 3.40E-07 | 1.90E-07 | 6.90E-07 | 2.02E-10 | 2.93E-09 | 5.31E-08 | 5.31E-08 | 2.92E-08 | 1.39E-07 | 1.10E-10 | 1.59E-09 | 2.36E-08 | 2.36E-08 | 1.17E-08 | 6.06E-08 |
| 747 | 257697.6 | 4084849 | 1.14E-09 | 1.65E-08 | 2.92E-07 | 2.92E-07 | 1.63E-07 | 7.84E-07 | 1.73E-10 | 2.52E-09 | 4.56E-08 | 4.56E-08 | 2.51E-08 | 1.19E-07 | 9.42E-11 | 1.36E-09 | 2.03E-08 | 2.03E-08 | 1.00E-08 | 5.21E-08 |
| 748 | 257673.3 | 4084850 | 9.57E-10 | 1.38E-08 | 2.44E-07 | 2.44E-07 | 1.36E-07 | 6.40E-07 | 1.45E-10 | 2.11E-09 | 3.81E-08 | 3.81E-08 | 2.10E-08 | 9.95E-08 | 7.88E-11 | 1.14E-09 | 1.70E-08 | 1.70E-08 | 8.40E-09 | 4.36E-08 |
| 749 | 257849 | 4084851 | 7.83E-10 | 1.13E-08 | 2.00E-07 | 2.00E-07 | 1.12E-07 | 5.24E-07 | 1.19E-10 | 1.73E-09 | 3.12E-08 | 3.12E-08 | 1.72E-08 | 8.15E-08 | 6.46E-11 | 9.34E-10 | 1.39E-08 | 1.39E-08 | 6.88E-09 | 3.57E-08 |
| 750 | 257624.6 | 4084852 | 6.35E-10 | 9.18E-09 | 1.62E-07 | 1.62E-07 | 9.04E-08 | 4.25E-07 | 9.64E-11 | 1.40E-09 | 2.53E-08 | 2.53E-08 | 1.39E-08 | 6.61E-08 | 5.23E-11 | 7.57E-10 | 1.13E-08 | 1.15E-08 | 5.58E-09 | 2.89E-08 |
| 751 | 257600.3 | 4084853 | 5.19E-10 | 7.51E-09 | 1.33E-07 | 1.33E-07 | 7.39E-08 | 3.47E-07 | 7.88E-11 | 1.14E-09 | 2.07E-08 | 2.07E-08 | 1.14E-08 | 5.40E-08 | 4.28E-11 | 8.19E-10 | 9.21E-09 | 9.21E-09 | 4.56E-09 | 2.38E-08 |
| 752 | 257576 | 4084854 | 4.35E-10 | 6.29E-09 | 1.11E-07 | 1.11E-07 | 6.19E-08 | 2.91E-07 | 6.60E-11 | 9.58E-10 | 1.73E-08 | 1.73E-08 | 9.53E-09 | 4.52E-08 | 3.58E-11 | 5.16E-10 | 7.71E-09 | 7.71E-09 | 3.82E-09 | 1.98E-08 |
| 753 | 257551.6 | 4084855 | 3.74E-10 | 5.41E-09 | 9.56E-08 | 9.56E-08 | 5.33E-08 | 2.50E-07 | 5.68E-11 | 8.24E-10 | 1.49E-08 | 1.49E-08 | 8.20E-09 | 3.89E-08 | 3.08E-11 | 4.46E-10 | 6.84E-09 | 6.64E-09 | 3.29E-09 | 1.70E-08 |
| 754 | 258374.2 | 4084780 | 2.02E-09 | 2.93E-08 | 5.17E-07 | 5.17E-07 | 2.88E-07 | 1.35E-06 | 3.07E-10 | 4.46E-09 | 8.07E-08 | 8.07E-08 | 4.44E-08 | 2.10E-07 | 1.67E-10 | 2.41E-09 | 3.59E-08 | 3.59E-08 | 1.78E-08 | 9.21E-08 |
| 755 | 258395.9 | 4084783 | 2.11E-09 | 3.05E-08 | 5.38E-07 | 5.38E-07 | 3.00E-07 | 1.41E-06 | 3.20E-10 | 4.64E-09 | 8.41E-08 | 8.41E-08 | 4.62E-08 | 2.19E-07 | 1.74E-10 | 2.51E-09 | 3.74E-08 | 3.74E-08 | 1.85E-08 | 9.60E-08 |
| 756 | 258417.6 | 4084796 | 2.17E-09 | 3.14E-08 | 5.55E-07 | 5.55E-07 | 3.10E-07 | 1.45E-06 | 3.30E-10 | 4.79E-09 | 8.67E-08 | 8.67E-08 | 4.77E-08 | 2.26E-07 | 1.79E-10 | 2.59E-09 | 3.86E-08 | 3.86E-08 | 1.91E-08 | 9.90E-08 |
| 757 | 258439.3 | 4084804 | 2.21E-09 | 3.19E-08 | 5.64E-07 | 5.64E-07 | 3.14E-07 | 1.48E-06 | 3.35E-10 | 4.86E-09 | 8.80E-08 | 8.80E-08 | 4.84E-08 | 2.30E-07 | 1.82E-10 | 2.63E-09 | 3.92E-08 | 3.92E-08 | 1.94E-08 | 1.01E-07 |
| 758 | 258470.5 | 4084833 | 2.26E-09 | 3.42E-08 | 6.03E-07 | 6.03E-07 | 3.36E-07 | 1.58E-06 | 3.58E-10 | 5.20E-09 | 9.42E-08 | 9.42E-08 | 5.18E-08 | 2.46E-07 | 1.95E-10 | 2.82E-09 | 4.19E-08 | 4.19E-08 | 2.07E-08 | 1.08E-07 |
| 759 | 258480 | 4084854 | 2.47E-09 | 3.57E-08 | 6.31E-07 | 6.51E-07 | 3.52E-07 | 1.65E-06 | 3.75E-10 | 5.44E-09 | 9.85E-08 | 9.85E-08 | 5.41E-08 | 2.57E-07 | 2.04E-10 | 2.94E-09 | 4.38E-08 | 4.38E-08 | 2.17E-08 | 1.12E-07 |
| 760 | 258489.8 | 4084876 | 2.49E-09 | 3.60E-08 | 6.36E-07 | 6.36E-07 | 3.55E-07 | 1.67E-06 | 3.78E-10 | 5.49E-09 | 9.93E-08 | 9.93E-08 | 5.46E-08 | 2.59E-07 | 2.05E-10 | 2.97E-09 | 4.42E-08 | 4.42E-08 | 2.19E-08 | 1.13E-07 |
| 761 | 258499.1 | 4084897 | 2.43E-09 | 3.51E-08 | 6.20E-07 | 6.20E-07 | 3.46E-07 | 1.82E-06 | 3.68E-10 | 5.35E-09 | 9.68E-08 | 9.68E-08 | 5.32E-08 | 2.53E-07 | 2.00E-10 | 2.89E-09 | 4.31E-08 | 4.51E-08 | 2.13E-08 | 1.11E-07 |
| 762 | 258352.5 | 4084772 | 1.93E-09 | 2.29E-08 | 4.93E-07 | 4.93E-07 | 2.75E-07 | 1.29E-06 | 2.93E-10 | 4.25E-09 | 7.70E-08 | 7.70E-08 | 4.23E-08 | 2.01E-07 | 1.59E-10 | 2.30E-09 | 3.42E-08 | 3.42E-08 | 1.69E-08 | 6.79E-08 |
| 763 | 258328.2 | 4084773 | 1.94E-09 | 2.81E-08 | 4.97E-07 | 4.57E-07 | 2.77E-07 | 1.30E-06 | 2.95E-10 | 4.28E-09 | 7.75E-08 | 7.75E-08 | 4.26E-08 | 2.02E-07 | 1.60E-10 | 2.32E-09 | 3.45E-08 | 3.45E-08 | 1.71E-08 | 8.85E-08 |
| 764 | 258303.9 | 4084724 | 1.95E-09 | 2.82E-08 | 4.99E-07 | 4.99E-07 | 2.78E-07 | 1.51E-08 | 2.96E-10 | 4.30E-09 | 7.78E-08 | 7.78E-08 | 4.28E-08 | 2.03E-07 | 1.61E-10 | 2.33E-09 | 3.46E-08 | 3.46E-08 | 1.71E-08 | 8.89E-08 |
| 765 | 258279.5 | 4084725 | 1.95E-09 | 2.83E-08 | 4.99E-07 | 4.99E-07 | 2.78E-07 | 1.31E-06 | 2.97E-10 | 4.31E-09 | 7.79E-08 | 7.79E-08 | 4.28E-08 | 2.03E-07 | 1.61E-10 | 2.33E-09 | 3.47E-08 | 3.47E-08 | 1.72E-08 | 8.90E-08 |
| 766 | 258255.2 | 4084776 | 1.95E-09 | 2.82E-08 | 4.98E-07 | 4.98E-07 | 2.78E-07 | 1.30E-08 | 2.96E-10 | 4.30E-09 | 7.78E-08 | 7.78E-08 | 4.28E-08 | 2.03E-07 | 1.61E-10 | 2.33E-09 | 3.46E-08 | 3.46E-08 | 1.71E-08 | 8.89E-08 |
| 767 | 258230.9 | 4084777 | 1.94E-09 | 2.81E-08 | 4.97E-07 | 4.97E-07 | 2.77E-07 | 1.30E-08 | 2.95E-10 | 4.29E-09 | 7.76E-08 | 7.76E-08 | 4.26E-08 | 2.02E-07 | 1.60E-10 | 2.32E-09 | 3.45E-08 | 3.45E-08 | 1.71E-08 | 8.86E-08 |
| 768 | 258206.5 | 4084728 | 1.93E-09 | 2.80E-08 | 4.94E-07 | 4.94E-07 | 2.78E-07 | 1.29E-08 | 2.94E-10 | 4.26E-09 | 7.72E-08 | 7.72E-08 | 4.24E-08 | 2.01E-07 | 1.59E-10 | 2.31E-09 | 3.43E-08 | 3.43E-08 | 1.70E-08 | 8.81E-08 |
| 769 | 258182.2 | 4084779 | 1.92E-09 | 2.78E-08 | 4.91E-07 | 4.91E-07 | 2.74E-07 | 1.28E-06 | 2.92E-10 | 4.23E-09 | 7.66E-08 | 7.66E-08 | 4.21E-08 | 2.00E-07 | 1.58E-10 | 2.29E-09 | 3.41E-08 | 3.41E-08 | 1.69E-08 | 8.75E-08 |
| 720 | 258157.9 | 4084780 | 1.90E-09 | 2.75E-08 | 4.86E-07 | 4.86E-07 | 2.71E-07 | 1.27E-06 | 2.89E-10 | 4.20E-09 | 7.59E-08 | 7.59E-08 | 4.17E-08 | 1.98E-07 | 1.57E-10 | 2.27E-09 | 3.38E-08 | 3.38E-08 | 1.67E-08 | 6.67E-08 |
| 721 | 258133.5 | 4084781 | 1.88E-09 | 2.72E-08 | 4.81E-07 | 4.81E-07 | 2.68E-07 | 1.26E-06 | 2.86E-10 | 4.15E-09 | 7.51E-08 | 7.51E-08 | 4.13E-08 | 1.96E-07 | 1.55E-10 | 2.25E-09 | 3.34E-08 | 3.34E-08 | 1.65E-08 | 8.58E-08 |
| 772 | 258109.2 | 4084782 | 1.86E-09 | 2.69E-08 | 4.75E-07 | 4.75E-07 | 2.65E-07 | 1.24E-06 | 2.82E-10 | 4.09E-09 | 7.41E-08 | 7.41E-08 | 4.07E-08 | 1.93E-07 | 1.53E-10 | 2.22E-09 | 3.30E-08 | 3.30E-08 | 1.62E-08 | 8.46E-08 |
| 723 | 258084.9 | 4084782 | 1.83E-09 | 2.65E-08 | 4.67E-07 | 4.67E-07 | 2.60E-07 | 1.22E-06 | 2.78E-10 | 4.03E-09 | 7.29E-08 | 7.29E-08 | 4.01E-08 | 1.90E-07 | 1.51E-10 | 2.18E-09 | 3.24E-08 | 3.24E-08 | 1.61E-08 | 8.33E-08 |
| 724 | 258060.5 | 4084784 | 1.79E-09 | 2.60E-08 | 4.58E-07 | 4.58E-07 | 2.56E-07 | 1.20E-06 | 2.72E-10 | 3.95E-09 | 7.16E-08 | 7.16E-08 | 3.93E-08 | 1.87E-07 | 1.48E-10 | 2.14E-09 | 3.18E-08 | 3.18E-08 | 1.58E-08 | 8.17E-08 |
| 775 | 258036.2 | 4084785 | 1.76E-09 | 2.54E-08 | 4.48E-07 | 4.48E-07 | 2.30E-07 | 1.17E-06 | 2.66E-10 | 3.87E-09 | 7.00E-08 | 7.00E-08 | 3.85E-08 | 1.83E-07 | 1.45E-10 | 2.09E-09 | 3.11E-08 | 3.11E-08 | 1.54E-08 | 7.99E-08 |
| 776 | 258011.9 | 4084788 | 1.71E-09 | 2.47E-08 | 4.37E-07 | 4.57E-07 | 2.44E-07 | 1.14E-06 | 2.60E-10 | 3.72E-09 | 6.82E-08 | 6.82E-08 | 3.75E-08 | 1.78E-07 | 1.41E-10 | 2.04E-09 | 3.04E-08 | 3.04E-08 | 1.50E-08 | 7.79E-08 |
| 777 | 257987.5 | 4084787 | 1.66E-09 | 2.40E-08 | 4.24E-07 | 4.24E-07 | 2.36E-07 | 1.11E-06 | 2.52E-10 | 3.66E-09 | 6.62E-08 | 6.62E-08 | 3.64E-08 | 1.73E-07 | 1.57E-10 | 1.98E-09 | 2.95E-08 | 2.95E-08 | 1.46E-08 | 7.56E-08 |
| 778 | 257963.2 | 4084788 | 1.60E-09 | 2.32E-08 | 4.09E-07 | 4.09E-07 | 2.28E-07 | 1.07E-06 | 2.43E-10 | 3.53E-09 | 6.59E-08 | 6.39E-08 | 3.52E-08 | 1.67E-07 | 1.32E-10 | 1.91E-09 | 2.84E-08 | 2.84E-08 | 1.41E-08 | 7.30E-08 |
| 779 | 257938.9 | 4084789 | 1.54E-09 | 2.23E-08 | 3.93E-07 | 3.93E-07 | 2.19E-07 | 1.03E-06 | 2.34E-10 | 3.39E-09 | 8.14E-08 | 6.14E-08 | 3.38E-08 | 1.60E-07 | 1.27E-10 | 1.84E-09 | 2.73E-08 | 2.73E-08 | 1.35E-08 | 7.01E-06 |
| 780 | 257914.6 | 4084790 | 1.47E-09 | 2.12E-08 | 3.75E-07 | 3.75E-07 | 2.09E-07 | 9.82E-07 | 2.23E-10 | 3.24E-09 | 5.86E-08 | 5.86E-08 | 3.22E-08 | 1.53E-07 | 1.21E-10 | 1.75E-09 | 2.61E-08 | 2.61E-08 | 1.29E-08 | 6.69E-08 |
| 781 | 257890.2 | 4084791 | 1.39E-09 | 2.01E-08 | 3.55E-07 | 3.55E-07 | 1.98E-07 | 9.30E-07 | 2.11E-10 | 3.07E-09 | 5.55E-08 | 5.55E-08 | 3.05E-08 | 1.45E-07 | 1.15E-10 | 1.66E-09 | 2.47E-08 | 2.47E-08 | 1.22E-08 | 6.34E-08 |
| 782 | 257865.9 | 4084792 | 1.31E-09 | 1.89E-08 | 3.34E-07 | 3.34E-07 | 1.86E-07 | 8.73E-07 | 1.98E-10 | 2.88E-09 | 5.21E-08 | 5.21E-08 | 2.86E-08 | 1.38E-07 | 1.08E-10 | 1.56E-09 | 2.32E-08 | 2.32E-08 | 1.15E-08 | 5.95E-08 |
| 783 | 257841.6 | 4084793 | 1.21E-09 | 1.76E-08 | 3.10E-07 | 3.10E-07 | 1.73E-07 | 6.12E-07 | 1.84E-10 | 2.68E-09 | 4.84E-08 | 4.84E-08 | 2.66E-08 | 1.26E-07 | 1.00E-10 | 1.45E-09 | 2.15E-08 | 2.15E-08 | 1.07E-08 | 5.53E-08 |
| 784 | 257817.2 | 4084794 | 1.12E-09 | 1.61E-08 | 2.85E-07 | 2.85E-07 | 1.59E-07 | 7.46E-07 | 1.69E-10 | 2.46E-09 | 4.45E-08 | 4.45E-08 | 2.45E-08 | 1.16E-07 | 9.20E-11 | 1.33E-09 | 1.98E-08 | 1.98E-08 | 9.80E-09 | 5.08E-08 |
| 785 | 257792.9 | 4084795 | 1.01E-09 | 1.47E-08 | 2.59E-07 | 2.59E-07 | 1.44E-07 | 6.78E-07 | 1.54E-10 | 2.23E-09 | 4.04E-08 | 4.04E-08 | 2.22E-08 | 1.06E-07 | 8.35E-11 | 1.21E-09 | 1.80E-08 | 1.80E-08 | 6.90E-09 | 4.61E-08 |
| 786 | 257768.6 | 4084796 | 9.07E-10 | 1.51E-08 | 2.32E-07 | 2.32E-07 | 1.29E-07 | 6.06E-07 | 1.38E-10 | 2.00E-09 | 3.62E-08 | 3.62E-08 | 1.99E-08 | 9.43E-08 | 7.48E-11 | 1.08E-09 | 1.61E-08 | 1.61E-08 | 7.96E-09 | 4.13E-08 |
| 787 | 257744.2 | 4084797 | 6.00E-10 | 1.16E-08 | 2.04E-07 | 2.04E-07 | 1.14E-07 | 5.35E-07 | 1.21E-10 | 1.76E-09 | 3.19E-08 | 3.19E-08 | 1.75E-08 | 8.32E-08 | 6.59E-11 | 9.54E-10 | 1.42E-08 | 1.42E-08 | 7.03E-09 | 3.84E-08 |
| 788 | 257219.9 | 4084798 | 6.96E-10 | 1.01E-08 | 1.78E-07 | 1.78E-07 | 9.91E-08 | 4.65E-07 | 1.06E-10 | 1.53E-09 | 2.78E-08 | 2.78E-08 | 1.53E-08 | 7.24E-08 | 5.74E-11 | 8.30E-10 | 1.23E-08 | 1.23E-08 | 6.11E-09 | 3.17E-08 |
| 789 | 257695.6 | 4084799 | 5.98E-10 | 8.65E-09 | 1.53E-07 | 1.53E-07 | 8.52E-08 | 4.00E-07 | 9.08E-11 | 1.52E-09 | 2.39E-08 | 2.39E-08 | 1.31E-08 | 6.22E-08 | 4.93E-11 | 7.13E-10 | 1.06E-08 | 1.06E-08 | 5.25E-09 | 2.72E-08 |
| 790 | 257671.2 | 4084800 | 5.11E-10 | 7.39E-09 | 1.30E-07 | 1.30E-07 | 7.27E-08 | 3.42E-07 | 7.75E-11 | 1.13E-09 | 2.04E-08 | 2.04E-08 | 1.12E-08 | 5.31E-08 | 4.21E-11 | 6.09E-10 | 9.06E-09 | 9.06E-09 | 4.49E-09 | 2.33E-08 |
| 791 | 257646.9 | 4084801 | 4.36E-10 | 6.31E-09 | 1.11E-07 | 1.11E-07 | 6.21E-08 | 2.92E-07 | 6.62E-11 | 9.61E-10 | 1.74E-08 | 1.74E-08 | 9.58E-09 | 4.54E-08 | 3.59E-11 | 5.20E-10 | 7.74E-09 | 7.74E-09 | 3.83E-09 | 1.99E-08 |
| 792 | 257622.6 | 4084801 | 3.75E-10 | 5.42E-09 | 9.58E-08 | 9.58E-08 | 5.34E-08 | 2.51E-07 | 5.69E-11 | 6.26E-10 | 1.50E-08 | 1.50E-08 | 8.22E-09 | 3.90E-08 | 3.09E-11 | 4.47E-10

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 587 | 258857.3 | 4086421 | 4.85E-11 | 7.04E-10 | 1.24E-08 | 1.24E-08 | 6.93E-09 | 3.25E-08 | 7.38E-12 | 1.07E-10 | 1.94E-09 | 1.94E-09 | 1.07E-09 | 5.06E-09 | 4.01E-12 | 5.80E-11 | 8.63E-10 | 8.63E-10 | 4.27E-10 | 2.22E-09 |
| 588 | 258834.9 | 4086432 | 4.89E-11 | 7.08E-10 | 1.25E-08 | 1.25E-08 | 6.97E-09 | 3.27E-08 | 7.43E-12 | 1.08E-10 | 1.95E-09 | 1.95E-09 | 1.07E-09 | 5.09E-09 | 4.03E-12 | 5.83E-11 | 8.68E-10 | 8.68E-10 | 4.30E-10 | 2.23E-09 |
| 589 | 258812.4 | 4086442 | 4.92E-11 | 7.12E-10 | 1.26E-08 | 1.26E-08 | 7.01E-09 | 3.29E-08 | 7.47E-12 | 1.08E-10 | 1.96E-09 | 1.96E-09 | 1.08E-09 | 5.12E-09 | 4.06E-12 | 5.87E-11 | 8.73E-10 | 8.73E-10 | 4.32E-10 | 2.24E-09 |
| 590 | 258790 | 4086453 | 4.94E-11 | 7.15E-10 | 1.26E-08 | 1.26E-08 | 7.04E-09 | 3.30E-08 | 7.50E-12 | 1.09E-10 | 1.97E-09 | 1.97E-09 | 1.08E-09 | 5.14E-09 | 4.07E-12 | 5.89E-11 | 8.77E-10 | 8.77E-10 | 4.34E-10 | 2.25E-09 |
| 591 | 256767.5 | 4086463 | 4.97E-11 | 7.16E-10 | 1.27E-08 | 1.27E-08 | 7.07E-09 | 3.32E-08 | 7.54E-12 | 1.09E-10 | 1.98E-09 | 1.98E-09 | 1.09E-09 | 5.17E-09 | 4.09E-12 | 5.92E-11 | 8.81E-10 | 8.81E-10 | 4.36E-10 | 2.26E-09 |
| 592 | 258745.1 | 4086473 | 4.99E-11 | 7.22E-10 | 1.27E-08 | 1.27E-08 | 7.10E-09 | 3.34E-08 | 7.57E-12 | 1.10E-10 | 1.99E-09 | 1.99E-09 | 1.09E-09 | 5.19E-09 | 4.11E-12 | 5.95E-11 | 6.85E-10 | 8.85E-10 | 4.38E-10 | 2.27E-09 |
| 593 | 258722.6 | 4086484 | 5.02E-11 | 7.25E-10 | 1.28E-08 | 1.28E-08 | 7.14E-09 | 3.35E-08 | 7.61E-12 | 1.11E-10 | 2.00E-09 | 2.00E-09 | 1.10E-09 | 5.22E-09 | 4.13E-12 | 5.98E-11 | 6.90E-10 | 8.90E-10 | 4.40E-10 | 2.26E-09 |
| 594 | 258700.2 | 4086494 | 5.04E-11 | 7.30E-10 | 1.29E-08 | 1.29E-08 | 7.18E-09 | 3.37E-08 | 7.66E-12 | 1.11E-10 | 2.01E-09 | 2.01E-09 | 1.11E-09 | 5.25E-09 | 4.16E-12 | 6.01E-11 | 6.95E-10 | 6.95E-10 | 4.43E-10 | 2.30E-09 |
| 595 | 258677.7 | 4086504 | 5.08E-11 | 7.35E-10 | 1.30E-08 | 1.30E-08 | 7.23E-09 | 3.40E-08 | 7.71E-12 | 1.12E-10 | 2.03E-09 | 2.03E-09 | 1.11E-09 | 5.26E-09 | 4.19E-12 | 6.06E-11 | 9.01E-10 | 9.01E-10 | 4.46E-10 | 2.31E-09 |
| 596 | 258655.3 | 4086515 | 5.12E-11 | 7.40E-10 | 1.31E-08 | 1.31E-08 | 7.29E-09 | 3.42E-08 | 7.77E-12 | 1.13E-10 | 2.04E-09 | 2.04E-09 | 1.12E-09 | 5.33E-09 | 4.22E-12 | 6.10E-11 | 9.08E-10 | 9.08E-10 | 4.30E-10 | 2.33E-09 |
| 597 | 258632.8 | 4086525 | 5.16E-11 | 7.46E-10 | 1.32E-08 | 1.32E-08 | 7.35E-09 | 3.45E-08 | 7.83E-12 | 1.14E-10 | 2.06E-09 | 2.06E-09 | 1.13E-09 | 5.37E-09 | 4.25E-12 | 6.15E-11 | 9.16E-10 | 9.16E-10 | 4.53E-10 | 2.35E-09 |
| 598 | 258610.4 | 4086536 | 5.21E-11 | 7.53E-10 | 1.33E-08 | 1.33E-08 | 7.41E-09 | 3.48E-08 | 7.90E-12 | 1.15E-10 | 2.08E-09 | 2.08E-09 | 1.14E-09 | 5.42E-09 | 4.29E-12 | 6.21E-11 | 9.24E-10 | 9.24E-10 | 4.57E-10 | 2.37E-09 |
| 599 | 256588 | 4086546 | 5.26E-11 | 7.60E-10 | 1.34E-08 | 1.34E-08 | 7.48E-09 | 3.51E-08 | 7.98E-12 | 1.16E-10 | 2.10E-09 | 2.10E-09 | 1.15E-09 | 5.47E-09 | 4.33E-12 | 6.27E-11 | 9.33E-10 | 9.33E-10 | 4.62E-10 | 2.39E-09 |
| 600 | 258565.5 | 4086556 | 5.31E-11 | 7.68E-10 | 1.36E-08 | 1.36E-08 | 7.56E-09 | 3.55E-08 | 8.06E-12 | 1.17E-10 | 2.12E-09 | 2.12E-09 | 1.16E-09 | 5.52E-09 | 4.38E-12 | 6.33E-11 | 9.42E-10 | 9.42E-10 | 4.66E-10 | 2.42E-09 |
| 601 | 258543.1 | 4086567 | 5.36E-11 | 7.76E-10 | 1.37E-08 | 1.37E-08 | 7.64E-09 | 3.59E-08 | 8.14E-12 | 1.18E-10 | 2.14E-09 | 2.14E-09 | 1.18E-09 | 5.58E-09 | 4.42E-12 | 6.40E-11 | 9.52E-10 | 9.52E-10 | 4.71E-10 | 2.44E-09 |
| 602 | 256520.6 | 4086577 | 5.42E-11 | 7.84E-10 | 1.38E-08 | 1.38E-08 | 7.72E-09 | 3.62E-08 | 8.23E-12 | 1.19E-10 | 2.16E-09 | 2.16E-09 | 1.19E-09 | 5.64E-09 | 4.47E-12 | 6.46E-11 | 9.62E-10 | 9.62E-10 | 4.76E-10 | 2.47E-09 |
| 603 | 256498.2 | 4086588 | 5.48E-11 | 7.92E-10 | 1.40E-08 | 1.40E-08 | 7.80E-09 | 3.66E-08 | 8.31E-12 | 1.21E-10 | 2.18E-09 | 2.18E-09 | 1.20E-09 | 5.70E-09 | 4.51E-12 | 6.53E-11 | 9.72E-10 | 9.77E-10 | 4.61E-10 | 2.49E-09 |
| 604 | 258475.7 | 4086598 | 5.53E-11 | 8.00E-10 | 1.41E-08 | 1.41E-08 | 7.87E-09 | 3.70E-08 | 8.39E-12 | 1.22E-10 | 2.20E-09 | 2.20E-09 | 1.21E-09 | 5.75E-09 | 4.56E-12 | 6.59E-11 | 9.81E-10 | 9.81E-10 | 4.86E-10 | 2.52E-09 |
| 605 | 258453.3 | 4086608 | 5.58E-11 | 6.07E-10 | 1.42E-06 | 1.42E-08 | 7.94E-09 | 3.73E-08 | 8.47E-12 | 1.23E-10 | 2.22E-09 | 2.22E-09 | 1.22E-09 | 5.80E-09 | 4.60E-12 | 6.65E-11 | 9.90E-10 | 9.90E-10 | 4.90E-10 | 2.54E-09 |
| 606 | 259863.8 | 4085075 | 5.42E-11 | 7.84E-10 | 1.38E-08 | 1.38E-08 | 7.72E-09 | 3.62E-08 | 8.23E-12 | 1.19E-10 | 2.16E-09 | 2.16E-09 | 1.19E-09 | 5.64E-09 | 4.47E-12 | 6.46E-11 | 9.62E-10 | 9.62E-10 | 4.76E-10 | 2.47E-09 |
| 607 | 259863.1 | 4085052 | 5.49E-11 | 7.94E-10 | 1.40E-08 | 1.40E-08 | 7.81E-09 | 3.67E-08 | 8.33E-12 | 1.21E-10 | 2.19E-09 | 2.19E-09 | 1.20E-09 | 5.71E-09 | 4.52E-12 | 6.54E-11 | 9.73E-10 | 9.73E-10 | 4.82E-10 | 2.50E-09 |
| 608 | 259862.4 | 4085027 | 5.57E-11 | 8.06E-10 | 1.42E-08 | 1.42E-08 | 7.93E-09 | 3.73E-08 | 8.46E-12 | 1.23E-10 | 2.22E-09 | 2.22E-09 | 1.22E-09 | 5.80E-09 | 4.59E-12 | 6.64E-11 | 9.88E-10 | 9.88E-10 | 4.89E-10 | 2.54E-09 |
| 609 | 259861.7 | 4085002 | 5.68E-11 | 8.22E-10 | 1.45E-08 | 1.45E-08 | 6.09E-09 | 3.80E-08 | 8.62E-12 | 1.25E-10 | 2.27E-09 | 2.27E-09 | 1.25E-09 | 5.91E-09 | 4.66E-12 | 6.77E-11 | 1.01E-09 | 1.01E-09 | 4.99E-10 | 2.59E-09 |
| 610 | 259860.9 | 4084977 | 5.82E-11 | 8.41E-10 | 1.49E-08 | 1.49E-08 | 8.28E-09 | 3.89E-08 | 8.83E-12 | 1.28E-10 | 2.32E-09 | 2.32E-09 | 1.28E-09 | 6.05E-09 | 4.80E-12 | 6.94E-11 | 1.03E-09 | 1.03E-09 | 5.11E-10 | 2.65E-09 |
| 611 | 259860.2 | 4084953 | 5.97E-11 | 8.64E-10 | 1.52E-08 | 1.52E-08 | 8.50E-09 | 3.99E-08 | 9.06E-12 | 1.32E-10 | 2.36E-09 | 2.38E-09 | 1.31E-09 | 6.21E-09 | 4.92E-12 | 7.12E-11 | 1.06E-09 | 1.06E-09 | 5.24E-10 | 2.72E-09 |
| 612 | 259659.5 | 4084928 | 6.14E-11 | 8.88E-10 | 1.57E-08 | 1.57E-08 | 8.75E-09 | 4.11E-08 | 9.32E-12 | 1.35E-10 | 2.45E-09 | 2.45E-09 | 1.35E-09 | 6.39E-09 | 5.06E-12 | 7.32E-11 | 1.09E-09 | 1.09E-09 | 5.39E-10 | 2.80E-09 |
| 613 | 259658.6 | 4084903 | 6.33E-11 | 9.15E-10 | 1.62E-08 | 1.62E-08 | 9.01E-09 | 4.23E-08 | 9.60E-12 | 1.39E-10 | 2.52E-09 | 2.52E-09 | 1.39E-09 | 6.58E-09 | 5.21E-12 | 7.54E-11 | 1.12E-09 | 1.12E-09 | 5.56E-10 | 2.88E-09 |
| 614 | 259858 | 4084878 | 6.51E-11 | 9.41E-10 | 1.66E-08 | 1.66E-08 | 9.27E-09 | 4.35E-08 | 9.88E-12 | 1.43E-10 | 2.60E-09 | 2.60E-09 | 1.43E-09 | 6.77E-09 | 5.36E-12 | 7.76E-11 | 1.15E-09 | 1.15E-09 | 5.72E-10 | 2.96E-09 |
| 615 | 258357.7 | 4084897 | 6.31E-09 | 9.13E-08 | 1.61E-06 | 1.61E-06 | 8.99E-07 | 4.22E-06 | 9.58E-10 | 1.39E-08 | 2.52E-07 | 2.52E-07 | 1.38E-07 | 6.57E-07 | 5.20E-10 | 7.53E-09 | 1.12E-07 | 1.12E-07 | 5.54E-08 | 2.87E-07 |
| 616 | 258333.3 | 4084898 | 6.61E-09 | 9.56E-08 | 1.69E-06 | 1.69E-06 | 9.41E-07 | 4.42E-06 | 1.00E-09 | 1.46E-08 | 2.64E-07 | 2.64E-07 | 1.45E-07 | 6.88E-07 | 5.45E-10 | 7.88E-09 | 1.17E-07 | 1.17E-07 | 5.80E-08 | 3.01E-07 |
| 617 | 258309 | 4084899 | 6.76E-09 | 9.78E-08 | 1.73E-06 | 1.73E-06 | 9.63E-07 | 4.52E-06 | 1.03E-09 | 1.49E-08 | 2.70E-07 | 2.70E-07 | 1.48E-07 | 7.03E-07 | 5.57E-10 | 6.06E-09 | 1.20E-07 | 1.20E-07 | 5.94E-08 | 3.08E-07 |
| 618 | 258284.7 | 4084900 | 6.86E-09 | 9.93E-08 | 1.75E-06 | 1.75E-06 | 9.77E-07 | 4.59E-06 | 1.04E-09 | 1.51E-08 | 2.74E-07 | 2.74E-07 | 1.50E-07 | 7.14E-07 | 5.66E-10 | 8.16E-09 | 1.22E-07 | 1.22E-07 | 6.03E-08 | 3.13E-07 |
| 619 | 258260.3 | 4084901 | 6.93E-09 | 1.00E-07 | 1.77E-06 | 1.77E-06 | 9.87E-07 | 4.64E-06 | 1.05E-09 | 1.53E-08 | 2.76E-07 | 2.76E-07 | 1.52E-07 | 7.21E-07 | 5.71E-10 | 8.27E-09 | 1.23E-07 | 1.23E-07 | 6.09E-08 | 3.16E-07 |
| 620 | 258236 | 4084902 | 6.98E-09 | 1.01E-07 | 1.78E-06 | 1.78E-06 | 9.94E-07 | 4.67E-06 | 1.06E-09 | 1.54E-08 | 2.78E-07 | 2.78E-07 | 1.53E-07 | 7.26E-07 | 5.76E-10 | 8.32E-09 | 1.24E-07 | 1.24E-07 | 6.13E-08 | 3.16E-07 |
| 621 | 258211.7 | 4084903 | 7.01E-09 | 1.01E-07 | 1.79E-06 | 1.79E-06 | 9.98E-07 | 4.69E-06 | 1.06E-09 | 1.54E-08 | 2.80E-07 | 2.80E-07 | 1.54E-07 | 7.29E-07 | 5.78E-10 | 8.36E-09 | 1.24E-07 | 1.24E-07 | 6.16E-08 | 3.19E-07 |
| 622 | 258187.3 | 4084904 | 7.03E-09 | 1.02E-07 | 1.79E-06 | 1.79E-06 | 1.00E-06 | 4.70E-06 | 1.07E-09 | 1.55E-08 | 2.80E-07 | 2.80E-07 | 1.54E-07 | 7.31E-07 | 5.79E-10 | 8.38E-09 | 1.25E-07 | 1.25E-07 | 6.17E-08 | 3.20E-07 |
| 623 | 258163 | 4084905 | 7.03E-09 | 1.02E-07 | 1.80E-06 | 1.80E-06 | 1.00E-06 | 4.70E-06 | 1.07E-09 | 1.55E-08 | 2.80E-07 | 2.80E-07 | 1.54E-07 | 7.31E-07 | 5.79E-10 | 8.38E-09 | 1.25E-07 | 1.25E-07 | 6.17E-08 | 3.20E-07 |
| 624 | 258138.7 | 4084906 | 7.02E-09 | 1.02E-07 | 1.79E-06 | 1.79E-06 | 1.00E-06 | 4.70E-06 | 1.07E-09 | 1.55E-08 | 2.80E-07 | 2.80E-07 | 1.54E-07 | 7.31E-07 | 5.79E-10 | 8.37E-09 | 1.25E-07 | 1.25E-07 | 6.17E-08 | 3.20E-07 |
| 625 | 256114.3 | 4084907 | 7.01E-09 | 1.01E-07 | 1.79E-06 | 1.79E-06 | 9.99E-07 | 4.69E-06 | 1.06E-09 | 1.55E-08 | 2.80E-07 | 2.80E-07 | 1.54E-07 | 7.30E-07 | 5.78E-10 | 8.36E-09 | 1.24E-07 | 1.24E-07 | 6.166-08 | 3.19E-07 |
| 626 | 258090 | 4084908 | 7.00E-09 | 1.01E-07 | 1.79E-06 | 1.79E-06 | 9.96E-07 | 4.68E-06 | 1.06E-09 | 1.54E-08 | 2.79E-07 | 2.79E-07 | 1.53E-07 | 7.28E-07 | 5.77E-10 | 8.34E-09 | 1.24E-07 | 1.24E-07 | 6.14E-08 | 3.19E-07 |
| 627 | 258065.7 | 4084909 | 6.97E-09 | 1.01E-07 | 1.78E-08 | 1.78E-06 | 9.93E-07 | 4.66E-06 | 1.06E-09 | 1.54E-08 | 2.78E-07 | 2.78E-07 | 1.53E-07 | 7.25E-07 | 5.75E-10 | 8.31E-09 | 1.24E-07 | 1.24E-07 | 6.12E-08 | 3.18E-07 |
| 628 | 258041.3 | 4084910 | 6.94E-09 | 1.00E-07 | 1.77E-06 | 1.77E-06 | 9.89E-07 | 4.64E-06 | 1.05E-09 | 1.53E-08 | 2.77E-07 | 2.77E-07 | 1.52E-07 | 7.22E-07 | 5.72E-10 | 8.28E-09 | 1.23E-07 | 1.23E-07 | 6.10E-08 | 3.16E-07 |
| 629 | 258017 | 4084911 | 6.91E-09 | 9.99E-08 | 1.76E-06 | 1.76E-06 | 9.83E-07 | 4.62E-06 | 1.05E-09 | 1.52E-08 | 2.75E-07 | 2.75E-07 | 1.51E-07 | 7.19E-07 | 5.69E-10 | 8.23E-09 | 1.23E-07 | 1.23E-07 | 6.07E-08 | 3.15E-07 |
| 630 | 257992.7 | 4084912 | 6.86E-09 | 9.93E-08 | 1.75E-06 | 1.75E-06 | 9.77E-07 | 4.59E-06 | 1.04E-09 | 1.51E-08 | 2.74E-07 | 2.74E-07 | 1.50E-07 | 7.14E-07 | 5.66E-10 | 8.16E-09 | 1.22E-07 | 1.22E-07 | 6.03E-08 | 3.13E-07 |
| 631 | 257968.3 | 4084913 | 6.81E-09 | 9.65E-08 | 1.74E-06 | 1.74E-06 | 9.70E-07 | 4.55E-06 | 1.03E-09 | 1.50E-08 | 2.72E-07 | 2.77E-07 | 1.49E-07 | 7.09E-07 | 5.61E-10 | 8.12E-09 | 1.21E-07 | 1.21E-07 | 5.98E-08 | 3.10E-07 |
| 632 | 257944 | 4084914 | 6.75E-09 | 9.76E-08 | 1.72E-06 | 1.72E-06 | 9.61E-07 | 4.51E-06 | 1.07E-09 | 1.49E-08 | 2.69E-07 | 2.69E-07 | 1.48E-07 | 7.02E-07 | 5.56E-10 | 8.05E-09 | 1.20E-07 | 1.20E-07 | 5.93E-08 | 3.07E-07 |
| 633 | 257919.7 | 4084915 | 6.68E-09 | 9.86E-08 | 1.71E-06 | 1.71E-06 | 9.51E-07 | 4.46E-06 | 1.01E-09 | 1.47E-08 | 2.66E-07 | 2.66E-07 | 1.46E-07 | 6.95E-07 | 5.50E-10 | 7.96E-09 | 1.16E-07 | 1.16E-07 | 5.66E-08 | 3.04E-07 |
| 634 | 257895.4 | 4084916 | 6.59E-09 | 9.53E-08 | 1.68E-06 | 1.68E-06 | 9.38E-07 | 4.40E-06 | 1.00E-09 | 1.45E-08 | 2.63E-07 | 2.63E-07 | 1.44E-07 | 6.85E-07 | 5.43E-10 | 7.85E-09 | 1.17E-07 | 1.17E-07 | 5.79E-08 | 3.00E-07 |
| 635 | 257871 | 4084917 | 6.48E-09 | 9.37E-08 | 1.66E-06 | 1.66E-06 | 9.23E-07 | 4.33E-06 | 9.84E-10 | 1.43E-08 | 2.58E-07 | 2.58E-07 | 1.42E-07 | 6.74E-07 | 5.34E-10 | 7.73E-09 | 1.15E-07 | 1.15E-07 | 5.69E-08 | 2.95E-07 |
| 636 | 257846.7 | 4084916 | 6.35E-09 | 9.19E-08 | 1.62E-06 | 1.62E-06 | 9.04E-07 | 4.25E-06 | 9.64E-10 | 1.40E-08 | 2.53E-07 | 2.53E-07 | 1.39E-07 | 6.61E-07 | 5.24E-10 | 7.57E-09 | 1.13E-07 | 1.13E-07 | 5.58E-08 | 2.89E-07 |
| 637 | 257622.4 | 4084919 | 6.20E-09 | 8.97E-08 | 1.58E-08 | 1.58E-06 | 8.83E-07 | 4.15E-06 | 9.41E-10 | 1.37E-08 | 2.47E-07 | 2.47E-07 | 1.36E-07 | 6.45E-07 | 5.11E-10 | 7.39E-09 | 1.10E-07 | 1.10E-07 | 5.45E-08 | 2.82E-07 |
| 638 | 257798 | 4084920 | 6.01E-09 | 8.70E-08 | 1.54E-06 | 1.54E-06 | 8.56E-07 | 4.02E-06 | 9.13E-10 | 1.33E-08 | 2.40E-07 | 2.40E-07 | 1.32E-07 | 6.26E-07 | 4.96E-10 | 7.17E-09 | 1.07E-07 | 1.07E-07 | 5.28E-08 | 2.74E-07 |
| 639 | 257773.7 | 4084921 | 5.79E-09 | 8.36E-08 | 1.48E-06 | 1.48E-06 | 8.25E-07 | 3.87E-06 | 8.79E-10 | 1.28E-08 | 2.31E-07 | 2.31E-07 | 1.27E-07 | 6.02E-07 | 4.77E-10 | 6.90E-09 | 1.03E-07 | 1.03E-07 | 5.09E-08 | 2.84E-07 |
| 640 | 257749.4 | 4084922 | 5.52E-09 | 7.99E-08 | 1.41E-06 | 1.41E-06 | 7.88E-07 | 3.69E-06 | 8.38E-10 | 1.22E-08 | 2.20E-07 | 2.20E-07 | 1.21E-07 | 5.75E-07 | 4.55E-10 | 6.58E-09 | 9.80E-08 | 9.80E-08 | 4.65E-08 | 2.51E-07 |
| 841 | 257725 | 4084923 | 5.20E-09 | 7.52E-08 | 1.33E-06 | 1.33E-06 | 7.40E-07 | 3.47E-06 | 7.69E-10 | 1.15E-08 | 2.07E-07 | 2.07E-07 | 1.14E-07 | 5.41E-07 | 4.28E-10 | 6.20E-09 | 9.22E-08 | 9.22E-08 | 4.36E-08 | 2.37E-07 |
| 842 | 257700.7 | 4084924 | 4.80E-09 | 6.94E-08 | 1.23E-06 | 1.23E-06 | 6.64E-07 | 3.21E-06 | 7.29E-10 | 1.06E-08 | 1.91E-07 | 1.91E-07 | 1.05E-07 | 5.00E-07 | 3.96E-10 | 5.72E-09 | 8.52E-08 | 8.52E-08 | 4.22E-08 | 2.19E-07 |
| 843 | 257676.4 | 4084925 | 4.32E-09 | 6.24E-08 | 1.10E-06 | 1.10E-06 | 6.15E-07 | 2.89E-06 | 6.55E-10 | 9.51E-09 | 1.72E-07 | 1.72E-07 | 9.46E-08 | 4.49E-07 | 3.56E-10 | 5.15E-09 | 7.66E-08 | 7.66E-08 | 3.79E-08 | 1.97E-07 |
| 644 | 257652 | 4084926 | 3.72E-09 | 5.38E-08 | 9.51E-07 | 9.51E-07 | 5.30E-07 | 2.49E-06 | 5.65E-10 | 8.20E-09 | 1.48E-07 | 1.48E-07 | 8.16E-08 | 3.87E-07 | 3.07E-10 | 4.44E-09 | 6.60E-08 | 6.60E-08 | 3.27E-08 | 1.69E-07 |
| 645 | 257627.7 | 4084927 | 2.99E-09 | 4.33E-08 | 7.64E-07 | 7.64E-07 | 4.26E-07 | 2.00E-06 | 4.54E-10 | 6.59E-09 | 1.19E-07 | 1.19E-07 | 6.56E-08 | 3.11E-07 | 2.47E-10 | 3.57E-09 | 5.31E-08 | 5.31E-08 | 2.63E-08 | 1.36E-07 |
| 646 | 257603.4 | 4084928 | 2.14E-09 | 3.09E-08 | 5.46E-07 | 5.46E-07 | 3.05E-07 | 1.43E-06 | 3.25E-10 | 4.71E-09 | 8.53E-08 | 8.53E-08 | 4.69E-08 | 2.23E-07 | 1.76E-10 | 2.55E-09 | 3.79E-08 | 3.79E-08 | 1.88E-08 | 9.74E-08 |
| 647 | 257579 | 4084929 | 1.34E-09 | 1.93E-08 | 3.41E-07 | 3.41E-07 | 1.90E-07 | 6.94E-07 | 2.03E-10 | 2.95E-09 | 5.33E-08 | 5.33E-08 | 2.93E-08 | 1.39E-07 | 1.10E-10 | 1.59E-09 | 2.37E-08 | 2.37E-08 | 1.17E-08 | 6.09E-08 |
| 648 | 257554.7 | 4084930 | 9.04E-10 | 1.31E-06 | 2.31E-07 | 2.31E-07 | 1.29E-07 | 6.04E-07 | 1.37E-10 | 1.99E-09 | 3.60E-08 | 3.60E-08 | 1.98E-08 | 9.40E-08 | 7.45E-11 | 1.08E-09 | 1.60E-08 | 1.60E-08 | 7.94E-09 | 4.12E-08 |
| 649 | 258374.7 | 4084879 | 4.69E-09 | 6.78E-08 | 1.20E-06 | 1.20E-06 | 6.67E-07 | 3.13E-06 | 7.11E-10 | 1.03E-08 | 1.87E-07 | 1.87E-07 | 1.03E-07 | 4.88E-07 | 3.86E-10 | 5.59E-09 | 8.32E-08 | 8.32E-08 | 4.12E-08 | 2.13E-07 |
| 650 | 256332.3 | 4084873 | 4.59E-09 | 6.64E-08 | 1.17E-06 | 1.17E-06 | 6.54E-07 | 3.07E-06 | 6.97E-10 | 1.01E-08 | 1.83E-07 | 1.83E-07 | 1.01E-07 | 4.78E-07 | 3.79E-10 | 5.48E-09 | 8.15E-08 | 8.15E-08 | 4.03E-08 | 2.09E-07 |
| 651 | 256308 | 4084874 | 4.67E-09 | 6.766-08 | 1.19E-06 | 1.19E-06 | 6.65E-07 | 3.12E-06 | 7.09E-10 | 1.03E-08 | 1.86E-07 | 1.86E-07 | 1.02E-07 | 4.66E-07 | 3.85E-10 | 5.57E-09 | 8.29E-08 | 8.29E-08 | 4.10E-08 | 2.13E-07 |
| 652 | 258283.6 | 4084875 | 4.72E-09 | 6.63E-08 | 1.21E-06 | 1.21E-06 | 6.73E-07 | 3.16E-08 | 7.17E-10 | 1.04E-08 | 1.88E-07 | 1.88E-07 | 1.04E-07 | 4.91E-07 | 3.89E-10 | 5.63E-09 | 8.38E-08 | 8.38E-08 | 4.15E-08 | 2.15E-07 |
| 653 | 258259.3 | 4084876 | 4.76E-09 | 6.88E-08 | 1.22E-06 | 1.22E-06 | 6.78E-07 | 3.18E-08 | 7.22E-10 | 1.05E-08 | 1.90E-07 | 1.90E-07 | 1.04E-07 | 4.95E-07 | 3.92E-10 | 5.67E-09 | 8.45E-08 | 8.45E-08 | 4.18E-08 | 2.17E-07 |
| 654 | 258235 | 4084877 | 4.78E-09 | 6.92E-08 | 1.22E-06 | 1.22E-06 | 6.81E-07 | 3.20E-08 | 7.26E-10 | 1.05E-08 | 1.91E-07 | 1.91E-07 | 1.05E-07 | 4.98E-07 | 3.94E-10 | 5.70E-09 | 6.49E-08 | 6.49E-08 | 4.20E-08 | 2.18E-07 |
| 655 | 258210.6 | 4084878 | 4.80E-09 | 6.94E-08 | 1.23E-06 | 1.23E-06 | 6.84E-07 | 3.21E-06 | 7.29E-10 | 1.06E-08 | 1.91E-07 | 1.91E-07 | 1.05E-07 | 4.99E-07 | 3.96E-10 | 5.72E-09 | 6.52E-08 | 6.52E-08 | 4.22E-08 | 2.19E-07 |
| 656 | 258186.3 | 4084879 | 4.81E-09 | 6.96E-08 | 1.23E-06 | 1.23E-06 | 6.85E-07 | 3.22E-06 | 7.30E-10 | 1.06E-08 | 1.92E-07 | 1.92E-07 | 1.05E-07 | 5.00E-07 | 3.96E-10 | 5.73E-09 | 6.53E-08 | 8.53E-08 | 4.22E-08 | 2.19E-07 |
| 657 | 258162 | 4084880 | 4.81E-09 | 6.96E-08 | 1.23E-06 | 1.23E-06 | 6.85E-07 | 3.22E-06 | 7.30E-10 | 1.06E-08 | 1.92E-07 | 1.92E-07 | 1.05E-07 | 5.00E-07 | 3.97E-10 | 5.74E-09 | 8.54E-08 | 8.54E-08 | 4.23E-08 | 2.19E-07 |
| 658 | 258137.6 | 4084881 | 4.81E-09 | 6.95E-08 | 1.23E-06 | 1.23E-06 | 6.84E-07 | 3.21E-06 | 7.29E-10 | 1.06E-08 | 1.92E-07 | 1.92E-07 | 1.05E-07 | 5.00E-07 | 3.96E-10 | 5.73E-09 | 8.53E-08 | 8.53E-08 | 4.22E-08 | 2.19E-07 |
| 659 | 258113.3 | 4084882 | 4.80E-09 | 6.94E-08 | 1.22E-06 | 1.22E-06 | 6.83E-07 | 3.21E-06 | 7.28E-10 | 1.06E-08 | 1.91E-07 | 1.91E-07 | 1.05E-07 | 4.99E-07 | 3.95E-10 | 5.72E-09 | 6.51E-08 | 6.51E-08 | 4.21E-08 | 2.18E-07 |
| 660 | 258089 | 4084883 | 4.78E-09 | 6.91E-08 | 1.22E-06 | 1.22E-06 | 6.80E-07 | 3.19E-06 | 7.25E-10 | 1.05E-08 | 1.91E-07 | 1.91E-07 | 1.05E-07 | 4.97E-07 | 3.94E-10 | 5.70E-09 | 6.48E-08 | 8.48E-08 | 4.20E-08 | 2.18E-07 |
| 661 | 258064.6 | 4084884 | 4.75E-09 | 6.85E-08 | 1.21E-06 | 1.21E-06 | 6.77E-07 | 3.16E-06 | 7.22E-10 | 1.06E-08 | 1.90E-07 | 1.90E-07 | 1.04E-07 | 4.95E-07 | 3.92E-10 | 5.67E-09 | 8.43E-08 | 8.43E-08 | 4.16E-08 | 2.17E-07 |
| 662 | 258040.3 | 4084885 | 4.72E-09 | 6.82E-08 | 1.21E-06 | 1.21E-06 | 6.73E-07 | 3.16E-06 | 7.17E-10 | 1.04E-08 | 1.88E-07 | 1.88E-07 | 1.04E-07 | 4.91E-07 | 3.89E-10 | 5.63E-09 | 8.38E-08 | 8.38E-08 | 4.15E-08 | 2.15E-07 |
| 663 | 258016 | 4084886 | 4.69E-09 | 8.76E-06 | 1.20E-06 | 1.20E-06 | 6.67E-07 | 3.13E-06 | 7.11E-10 | 1.03E-08 | 1.87E-07 | 1.87E-07 | 1.03E-07 | 4.87E-07 | 3.86E-10 | 5.59E-09 | 6.31E-08 | 8.31E-08 | 4.11E-08 | 2.13E-07 |
| 664 | 257991.7 | 4084887 | 4.64E-09 | 6.71E-08 | 1.18E-06 | 1.18E-06 | 6.61E-07 | 3.10E-06 | 7.04E-10 | 1.02E-08 | 1.85E-07 | 1.85E-07 | 1.02E-07 | 4.83E-07 | 3.82E-10 | 5.53E-09 | 8.23E-08 | 8.23E-08 | 4.07E-08 | 2.11E-07 |
| 665 | 257967.3 | 4084888 | 4.58E-09 | 6.63E-06 | 1.17E-06 | 1.17E-06 | 6.53E-07 | 3.06E-08 | 6.96E-10 | 1.01E-08 | 1.83E-07 | 1.83E-07 | 1.00E-07 | 4.77E-07 | 3.78E-10 | 5.46E-09 | 6.13E-08 | 8.13E-08 | 4.02E-08 | 2.09E-07 |
| 666 | 257943 | 4084889 | 4.52E-09 | 6.53E-08 | 1.15E-06 | 1.13E-06 | 6.43E-07 | 3.02E-06 | 6.85E-10 | 9.95E-09 | 1.80E-07 | 1.80E-07 | 9.90E-08 | 4.70E-07 | 3.72E-10 | 5.36E-09 | 6.01E-08 | 8.01E-08 | 3.97E-08 | 2.06E-07 |
| 667 | 257916.7 | 4084890 | 4.44E-09 | 6.42E-08 | 1.13E-06 | 1.13E-06 | 6.32E-07 | 2.97E-06 | 6.74E-10 | 9.76E-09 | 1.77E-07 | 1.77E-07 | 9.73E-08 | 4.62E-07 | 3.66E-10 | 5.29E-09 | 7.88E-08 | 7.88E-08 | 3.90E-08 | 2.02E-07 |
| 668 | 257894.3 | 4084891 | 4.35E-09 | 6.29E-08 | 1.11E-06 | 1.11E-06 | 6.19E-07 | 2.91E-06 | 6.60E-10 | 9.58E-09 | 1.73E-07 | 1.73E-07 | 9.53E-08 | 4.52E-07 | 3.58E-10 | 5.18E-09 | 7.72E-08 | 7.72E-08 | 3.82E-08 | 1.98E-07 |
| 669 | 257870 | 4084892 | 4.24E-09 | 6.14E-08 | 1.08E-06 | 1.08E-06 | 6.04E-07 | 2.84E-06 | 6.44E-10 | 9.35E-09 | 1.69E-07 | 1.69E-07 | 9.30E-08 | 4.41E-07 | 3.50E-10 | 5.06E-09 | 7.53E-08 | 7.53E-08 | 3.73E-08 | 1.93E-07 |
| 670 | 257845.7 | 4084893 | 4.12E-09 | 5.95E-08 | 1.05E-06 | 1.05E-06 | 5.86E-07 | 2.75E-06 | 6.25E-10 | 9.07E-09 | 1.84E-07 | 1.84E-07 | 9.02E-08 | 4.28E-07 | 3.39E-10 | 4.91E-09 | 7.30E-08 | 7.30E-08 | 3.61E-08 | 1.87E-07 |
| 671 | 257821.3 | 4084894 | 3.97E-09 | 5.74E-08 | 1.01E-06 | 1.01E-06 | 5.65E-07 | 2.65E-06 | 6.02E-10 | 6.74E-09 | 1.58E-07 | 1.58E-07 | 8.70E-08 | 4.13E-07 | 3.27E-10 | 4.73E-09 | 7.04E-08 | 7.04E-08 | 3.46E-08 | 1.81E-07 |
| 672 | 257797 | 4084895 | 3.79E-09 | 5.48E-08 | 9.68E-07 | 9.68E-07 | 5.40E-07 | 2.53E-06 | 5.75E-10 | 8.35E-09 | 1.51E-07 | 1.51E-07 | 8.31E-08 | 3.94E-07 | 3.12E-10 | 4.52E-09 | 6.73E-08 | 6.73E-08 | 3.33E-08 | 1.73E-07 |
| 673 | 257772.7 | 4084896 | 3.58E-09 | 5.16E-08 | 9.16E-07 | 9.166-07 | 5.10E-07 | 2.40E-06 | 5.44E-10 | 7.90E-09 | 1.43E-07 | 1.43E-07 | 7.86E-08 | 3.73E-07 | 2.95E-10 | 4.27E-09 | 6.36E-08 | 6.36E-08 | 3.15E-08 | 1.63E-07 |
| 674 | 257748.3 | 4084897 | 3.34E-09 | 4.83E-08 | 8.54E-07 | 8.54E-07 | 4.76E-07 | 2.24E-06 | 5.07E-10 | 7.37E-09 | 1.33E-07 | 1.33E-07 | 7.33E-08 | 3.48E-07 | 2.76E-10 | 3.99E-09 | 5.93E-08 | 5.93E-08 | 2.94E-08 | 1

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 469 | 259272.1 | 4086026 | 4.06E-11 | 5.87E-10 | 1.04E-08 | 1.04E-08 | 5.78E-09 | 2.71E-08 | 6.16E-12 | 6.94E-11 | 1.62E-09 | 1.62E-09 | 8.89E-10 | 4.22E-09 | 3.34E-12 | 4.84E-11 | 7.20E-10 | 7.20E-10 | 3.56E-10 | 1.85E-09 |
| 470 | 259249.7 | 4086036 | 4.10E-11 | 5.93E-10 | 1.05E-08 | 1.05E-08 | 5.84E-09 | 2.74E-08 | 6.22E-12 | 9.03E-11 | 1.63E-09 | 1.63E-09 | 8.99E-10 | 4.26E-09 | 3.38E-12 | 4.89E-11 | 7.27E-10 | 7.27E-10 | 3.60E-10 | 1.87E-09 |
| 471 | 259227.5 | 4086046 | 4.14E-11 | 5.99E-10 | 1.06E-08 | 1.06E-08 | 5.90E-09 | 2.77E-08 | 6.29E-12 | 9.13E-11 | 1.65E-09 | 1.65E-09 | 9.09E-10 | 4.31E-09 | 3.42E-12 | 4.94E-11 | 7.35E-10 | 7.35E-10 | 3.64E-10 | 1.89E-09 |
| 472 | 259205 | 4086057 | 4.19E-11 | 6.06E-10 | 1.07E-08 | 1.07E-08 | 5.96E-09 | 2.80E-08 | 6.35E-12 | 9.23E-11 | 1.67E-09 | 1.67E-09 | 9.18E-10 | 4.36E-09 | 3.45E-12 | 4.99E-11 | 7.43E-10 | 7.43E-10 | 3.68E-10 | 1.91E-09 |
| 473 | 259162.8 | 4086067 | 4.23E-11 | 6.12E-10 | 1.08E-08 | 1.08E-08 | 6.02E-09 | 2.83E-08 | 6.42E-12 | 9.32E-11 | 1.69E-09 | 1.69E-09 | 9.27E-10 | 4.40E-09 | 3.49E-12 | 5.04E-11 | 7.50E-10 | 7.50E-10 | 3.71E-10 | 1.93E-09 |
| 474 | 259160.2 | 4086077 | 4.27E-11 | 6.18E-10 | 1.09E-08 | 1.09E-08 | 6.08E-09 | 2.66E-08 | 6.48E-12 | 9.41E-11 | 1.70E-09 | 1.70E-09 | 9.37E-10 | 4.44E-09 | 3.52E-12 | 5.09E-11 | 7.58E-10 | 7.58E-10 | 3.75E-10 | 1.99E-09 |
| 475 | 259137.9 | 4086088 | 4.32E-11 | 6.25E-10 | 1.10E-08 | 1.10E-08 | 6.15E-09 | 2.89E-08 | 6.56E-12 | 9.52E-11 | 1.72E-09 | 1.72E-09 | 9.48E-10 | 4.50E-09 | 3.56E-12 | 5.15E-11 | 7.67E-10 | 7.67E-10 | 3.80E-10 | 1.97E-09 |
| 476 | 259115.5 | 4086098 | 4.37E-11 | 6.35E-10 | 1.12E-08 | 1.12E-08 | 6.23E-09 | 2.93E-08 | 6.64E-12 | 9.64E-11 | 1.74E-09 | 1.74E-09 | 9.59E-10 | 4.55E-09 | 3.61E-12 | 5.22E-11 | 7.76E-10 | 7.76E-10 | 3.84E-10 | 1.99E-09 |
| 477 | 259093.1 | 4086108 | 4.43E-11 | 6.41E-10 | 1.13E-08 | 1.13E-08 | 6.31E-09 | 2.96E-08 | 6.72E-12 | 9.76E-11 | 1.77E-09 | 1.77E-09 | 9.71E-10 | 4.61E-09 | 3.63E-12 | 5.28E-11 | 7.86E-10 | 7.86E-10 | 3.89E-10 | 2.02E-09 |
| 478 | 259070.7 | 4086119 | 4.49E-11 | 6.50E-10 | 1.15E-08 | 1.15E-08 | 6.40E-09 | 3.00E-08 | 6.82E-12 | 9.90E-11 | 1.79E-09 | 1.79E-09 | 9.85E-10 | 4.67E-09 | 3.70E-12 | 5.35E-11 | 7.97E-10 | 7.97E-10 | 3.94E-10 | 2.05E-09 |
| 479 | 259048.4 | 4086129 | 4.56E-11 | 8.60E-10 | 1.18E-08 | 1.16E-08 | 6.49E-09 | 3.05E-08 | 6.92E-12 | 1.00E-10 | 1.82E-09 | 1.82E-09 | 1.00E-09 | 4.74E-09 | 3.76E-12 | 5.44E-11 | 8.09E-10 | 8.09E-10 | 4.00E-10 | 2.08E-09 |
| 480 | 259026 | 4086139 | 4.64E-11 | 6.71E-10 | 1.18E-08 | 1.18E-08 | 6.60E-09 | 3.10E-08 | 7.04E-12 | 1.02E-10 | 1.85E-09 | 1.85E-09 | 1.02E-09 | 4.82E-09 | 3.82E-12 | 5.53E-11 | 6.23E-10 | 6.23E-10 | 4.07E-10 | 2.11E-09 |
| 481 | 259003.8 | 4086150 | 4.72E-11 | 6.63E-10 | 1.21E-08 | 1.21E-08 | 6.73E-09 | 3.16E-08 | 7.17E-12 | 1.04E-10 | 1.88E-09 | 1.88E-09 | 1.04E-09 | 4.91E-09 | 3.89E-12 | 5.63E-11 | 8.38E-10 | 8.38E-10 | 4.15E-10 | 2.15E-09 |
| 482 | 258981.5 | 4086160 | 4.82E-11 | 6.97E-10 | 1.23E-08 | 1.23E-08 | 6.87E-09 | 3.22E-08 | 7.52E-12 | 1.06E-10 | 1.92E-09 | 1.92E-09 | 1.06E-09 | 5.02E-09 | 3.97E-12 | 5.75E-11 | 8.56E-10 | 8.56E-10 | 4.23E-10 | 2.20E-09 |
| 483 | 258958.9 | 4086171 | 4.93E-11 | 7.13E-10 | 1.28E-08 | 1.26E-08 | 7.02E-09 | 3.30E-08 | 7.48E-12 | 1.09E-10 | 1.97E-09 | 1.97E-09 | 1.08E-09 | 5.13E-09 | 4.06E-12 | 5.88E-11 | 8.75E-10 | 6.75E-10 | 4.33E-10 | 2.25E-09 |
| 484 | 258936.5 | 4086181 | 5.04E-11 | 7.30E-10 | 1.29E-08 | 1.29E-08 | 7.16E-09 | 3.37E-08 | 7.66E-12 | 1.11E-10 | 2.01E-09 | 2.01E-09 | 1.11E-09 | 5.25E-09 | 4.16E-12 | 6.01E-11 | 6.95E-10 | 6.95E-10 | 4.43E-10 | 2.30E-09 |
| 485 | 258914.2 | 4086191 | 5.16E-11 | 7.46E-10 | 1.52E-08 | 1.32E-08 | 7.35E-09 | 3.45E-08 | 7.83E-12 | 1.14E-10 | 2.06E-09 | 2.06E-09 | 1.13E-09 | 5.57E-09 | 4.25E-12 | 8.15E-11 | 9.16E-10 | 9.16E-10 | 4.53E-10 | 2.35E-09 |
| 486 | 258891.8 | 4086202 | 5.27E-11 | 7.63E-10 | 1.35E-08 | 1.35E-08 | 7.51E-09 | 3.53E-08 | 8.01E-12 | 1.18E-10 | 2.10E-09 | 2.10E-09 | 1.18E-09 | 5.49E-09 | 4.35E-12 | 6.29E-11 | 9.36E-10 | 9.36E-10 | 4.63E-10 | 2.40E-09 |
| 487 | 258869.4 | 4086212 | 5.38E-11 | 7.79E-10 | 1.57E-08 | 1.57E-08 | 7.67E-09 | 3.60E-08 | 8.17E-12 | 1.19E-10 | 2.15E-09 | 2.15E-09 | 1.18E-09 | 5.60E-09 | 4.44E-12 | 8.42E-11 | 9.55E-10 | 9.55E-10 | 4.73E-10 | 2.45E-09 |
| 488 | 258847 | 4086222 | 5.48E-11 | 7.92E-10 | 1.40E-08 | 1.40E-08 | 7.80E-09 | 3.66E-08 | 8.31E-12 | 1.21E-10 | 2.18E-09 | 2.18E-09 | 1.20E-09 | 5.70E-09 | 4.51E-12 | 6.53E-11 | 9.77E-10 | 9.77E-10 | 4.81E-10 | 2.49E-09 |
| 489 | 258824.7 | 4086233 | 5.56E-11 | 8.04E-10 | 1.42E-08 | 1.42E-08 | 7.91E-09 | 3.72E-08 | 8.44E-12 | 1.22E-10 | 2.22E-09 | 2.22E-09 | 1.22E-09 | 5.78E-09 | 4.58E-12 | 6.63E-11 | 9.86E-10 | 9.86E-10 | 4.83E-10 | 2.53E-09 |
| 490 | 258802.5 | 4086243 | 5.62E-11 | 6.13E-10 | 1.44E-08 | 1.44E-08 | 8.01E-09 | 3.76E-08 | 8.54E-12 | 1.24E-10 | 2.24E-09 | 2.24E-09 | 1.23E-09 | 5.85E-09 | 4.64E-12 | 6.70E-11 | 9.98E-10 | 9.98E-10 | 4.94E-10 | 2.56E-09 |
| 491 | 258779.9 | 4086253 | 5.68E-11 | 6.21E-10 | 1.45E-08 | 1.45E-08 | 8.09E-09 | 3.80E-08 | 8.62E-12 | 1.25E-10 | 2.28E-09 | 2.26E-09 | 1.25E-09 | 5.91E-09 | 4.68E-12 | 6.77E-11 | 1.01E-09 | 1.01E-09 | 4.99E-10 | 2.59E-09 |
| 492 | 258757.6 | 4086264 | 5.72E-11 | 8.26E-10 | 1.46E-08 | 1.46E-08 | 6.15E-09 | 3.83E-08 | 8.68E-12 | 1.26E-10 | 2.28E-09 | 2.28E-09 | 1.25E-09 | 5.95E-09 | 4.72E-12 | 6.82E-11 | 1.02E-09 | 1.02E-09 | 5.03E-10 | 2.61E-09 |
| 493 | 258735.2 | 4086274 | 5.76E-11 | 8.33E-10 | 1.47E-08 | 1.47E-08 | 6.20E-09 | 3.85E-08 | 8.74E-12 | 1.27E-10 | 2.30E-09 | 2.30E-09 | 1.26E-09 | 5.99E-09 | 4.75E-12 | 6.87E-11 | 1.07E-09 | 1.07E-09 | 5.06E-10 | 2.62E-09 |
| 494 | 258712.8 | 4086284 | 5.80E-11 | 6.38E-10 | 1.48E-08 | 1.48E-08 | 8.25E-09 | 3.88E-08 | 8.80E-12 | 1.28E-10 | 2.51E-09 | 2.31E-09 | 1.27E-09 | 6.03E-09 | 4.78E-12 | 6.91E-11 | 1.03E-09 | 1.03E-09 | 5.09E-10 | 2.64E-09 |
| 495 | 258690.4 | 4086295 | 5.83E-11 | 8.43E-10 | 1.49E-08 | 1.49E-08 | 8.30E-09 | 3.90E-08 | 8.85E-12 | 1.28E-10 | 2.53E-09 | 2.33E-09 | 1.26E-09 | 6.07E-09 | 4.81E-12 | 6.95E-11 | 1.03E-09 | 1.03E-09 | 5.12E-10 | 2.66E-09 |
| 496 | 258668.1 | 4086305 | 5.67E-11 | 8.49E-10 | 1.50E-08 | 1.50E-08 | 8.36E-09 | 3.93E-08 | 8.91E-12 | 1.29E-10 | 2.34E-09 | 2.34E-09 | 1.29E-09 | 6.11E-09 | 4.84E-12 | 7.00E-11 | 1.04E-09 | 1.04E-09 | 5.16E-10 | 2.67E-09 |
| 497 | 258645.7 | 4086315 | 5.91E-11 | 6.55E-10 | 1.51E-08 | 1.51E-08 | 6.42E-09 | 3.95E-08 | 8.97E-12 | 1.30E-10 | 2.36E-09 | 2.56E-09 | 1.30E-09 | 6.15E-09 | 4.87E-12 | 7.05E-11 | 1.05E-09 | 1.05E-09 | 5.19E-10 | 2.69E-09 |
| 498 | 258623.5 | 4086326 | 5.96E-11 | 6.62E-10 | 1.52E-08 | 1.52E-08 | 8.49E-09 | 3.99E-08 | 9.05E-12 | 1.51E-10 | 2.38E-09 | 2.58E-09 | 1.31E-09 | 6.20E-09 | 4.92E-12 | 7.11E-11 | 1.06E-09 | 1.06E-09 | 5.24E-10 | 2.72E-09 |
| 499 | 258601 | 4086336 | 6.02E-11 | 6.70E-10 | 1.54E-08 | 1.54E-08 | 8.57E-09 | 4.02E-08 | 9.13E-12 | 1.35E-10 | 2.40E-09 | 2.40E-09 | 1.52E-09 | 6.26E-09 | 4.96E-12 | 7.18E-11 | 1.07E-09 | 1.07E-09 | 5.29E-10 | 2.74E-09 |
| 500 | 258576.6 | 4086346 | 6.08E-11 | 8.80E-10 | 1.55E-08 | 1.55E-08 | 6.66E-09 | 4.07E-08 | 9.23E-12 | 1.34E-10 | 2.43E-09 | 2.43E-09 | 1.33E-09 | 6.33E-09 | 5.01E-12 | 7.25E-11 | 1.08E-09 | 1.08E-09 | 5.34E-10 | 2.77E-09 |
| 501 | 258356.2 | 4086357 | 6.15E-11 | 6.89E-10 | 1.57E-08 | 1.57E-08 | 6.75E-09 | 4.11E-08 | 9.53E-12 | 1.35E-10 | 2.45E-09 | 2.45E-09 | 1.35E-09 | 6.40E-09 | 5.07E-12 | 7.33E-11 | 1.09E-09 | 1.09E-09 | 5.40E-10 | 2.80E-09 |
| 502 | 258533.8 | 4086367 | 6.22E-11 | 9.00E-10 | 1.59E-08 | 1.59E-08 | 8.86E-09 | 4.16E-08 | 9.44E-12 | 1.37E-10 | 2.48E-09 | 2.48E-09 | 1.56E-09 | 6.47E-09 | 5.13E-12 | 7.41E-11 | 1.10E-09 | 1.10E-09 | 5.46E-10 | 2.83E-09 |
| 503 | 258511.5 | 4086377 | 6.29E-11 | 9.10E-10 | 1.61E-08 | 1.61E-08 | 8.96E-09 | 4.21E-08 | 9.55E-12 | 1.39E-10 | 2.51E-09 | 2.51E-09 | 1.56E-09 | 6.55E-09 | 5.19E-12 | 7.50E-11 | 1.12E-09 | 1.12E-09 | 5.53E-10 | 2.87E-09 |
| 504 | 258489.1 | 4086388 | 6.57E-11 | 9.21E-10 | 1.63E-08 | 1.63E-08 | 9.07E-09 | 4.26E-08 | 9.67E-12 | 1.40E-10 | 2.54E-09 | 2.54E-09 | 1.40E-09 | 6.83E-09 | 5.25E-12 | 7.59E-11 | 1.13E-09 | 1.13E-09 | 5.59E-10 | 2.90E-09 |
| 505 | 258466.7 | 4086398 | 6.45E-11 | 9.33E-10 | 1.65E-08 | 1.65E-08 | 9.16E-09 | 4.31E-08 | 9.79E-12 | 1.42E-10 | 2.57E-09 | 2.57E-09 | 1.41E-09 | 6.71E-09 | 5.32E-12 | 7.69E-11 | 1.14E-09 | 1.14E-09 | 5.66E-10 | 2.94E-09 |
| 506 | 258444.4 | 4086408 | 6.53E-11 | 9.44E-10 | 1.67E-08 | 1.67E-08 | 9.29E-09 | 4.36E-08 | 9.91E-12 | 1.44E-10 | 2.60E-09 | 2.60E-09 | 1.43E-09 | 6.79E-09 | 5.38E-12 | 7.78E-11 | 1.16E-09 | 1.16E-09 | 5.73E-10 | 2.97E-09 |
| 507 | 259663.9 | 4085082 | 6.49E-11 | 9.39E-10 | 1.66E-08 | 1.66E-08 | 9.24E-09 | 4.34E-08 | 9.85E-12 | 1.43E-10 | 2.59E-09 | 2.59E-09 | 1.42E-09 | 6.75E-09 | 5.55E-12 | 7.74E-11 | 1.15E-09 | 1.15E-09 | 5.70E-10 | 2.96E-09 |
| 508 | 259663.2 | 4085057 | 6.59E-11 | 9.53E-10 | 1.68E-08 | 1.68E-08 | 9.38E-09 | 4.41E-08 | 1.00E-11 | 1.45E-10 | 2.63E-09 | 2.63E-09 | 1.44E-09 | 6.86E-09 | 5.43E-12 | 7.86E-11 | 1.17E-09 | 1.17E-09 | 5.79E-10 | 3.00E-09 |
| 509 | 259662.5 | 4085033 | 6.71E-11 | 9.71E-10 | 1.71E-08 | 1.71E-08 | 9.56E-09 | 4.49E-08 | 1.02E-11 | 1.46E-10 | 2.68E-09 | 2.68E-09 | 1.47E-09 | 6.98E-09 | 5.53E-12 | 8.00E-11 | 1.19E-09 | 1.19E-09 | 5.89E-10 | 3.06E-09 |
| 510 | 259661.7 | 4085008 | 6.86E-11 | 9.93E-10 | 1.73E-08 | 1.75E-08 | 9.77E-09 | 4.59E-08 | 1.04E-11 | 1.51E-10 | 2.74E-09 | 2.74E-09 | 1.50E-09 | 7.14E-09 | 5.65E-12 | 8.16E-11 | 1.22E-09 | 1.22E-09 | 6.02E-10 | 3.12E-09 |
| 511 | 259661 | 4084983 | 7.04E-11 | 1.02E-09 | 1.80E-08 | 1.80E-08 | 1.00E-08 | 4.71E-08 | 1.07E-11 | 1.55E-10 | 2.81E-09 | 2.81E-09 | 1.54E-09 | 7.52E-09 | 5.80E-12 | 8.39E-11 | 1.25E-09 | 1.25E-09 | 6.18E-10 | 3.20E-09 |
| 512 | 259660.3 | 4084958 | 7.25E-11 | 1.05E-09 | 1.85E-08 | 1.85E-08 | 1.03E-08 | 4.85E-08 | 1.10E-11 | 1.60E-10 | 2.89E-09 | 2.89E-09 | 1.59E-09 | 7.54E-09 | 5.97E-12 | 8.64E-11 | 1.29E-09 | 1.29E-09 | 6.36E-10 | 3.30E-09 |
| 513 | 259639.6 | 4084954 | 7.48E-11 | 1.08E-09 | 1.91E-08 | 1.91E-08 | 1.06E-08 | 5.00E-08 | 1.13E-11 | 1.65E-10 | 2.96E-09 | 2.98E-09 | 1.64E-09 | 7.78E-09 | 6.18E-12 | 8.91E-11 | 1.33E-09 | 1.33E-09 | 6.57E-10 | 3.41E-09 |
| 514 | 259658.9 | 4084909 | 7.71E-11 | 1.12E-09 | 1.97E-08 | 1.97E-08 | 1.10E-08 | 5.16E-08 | 1.17E-11 | 1.70E-10 | 3.08E-09 | 3.08E-09 | 1.69E-09 | 8.03E-09 | 6.36E-12 | 9.20E-11 | 1.37E-09 | 1.37E-09 | 6.78E-10 | 3.51E-09 |
| 515 | 259658.1 | 4084884 | 7.95E-11 | 1.15E-09 | 2.03E-08 | 2.03E-08 | 1.13E-08 | 5.32E-08 | 1.21E-11 | 1.75E-10 | 3.17E-09 | 3.17E-09 | 1.74E-09 | 8.27E-09 | 6.56E-12 | 9.48E-11 | 1.41E-09 | 1.41E-09 | 6.98E-10 | 3.62E-09 |
| 516 | 259835.1 | 4085100 | 5.41E-11 | 7.83E-10 | 1.38E-08 | 1.38E-08 | 7.71E-09 | 3.62E-08 | 6.21E-12 | 1.19E-10 | 2.16E-09 | 2.16E-09 | 1.19E-09 | 5.83E-09 | 4.46E-12 | 6.45E-11 | 9.60E-10 | 9.60E-10 | 4.75E-10 | 2.46E-09 |
| 517 | 259846.4 | 4085123 | 5.41E-11 | 7.82E-10 | 1.38E-08 | 1.56E-08 | 7.70E-09 | 3.62E-08 | 6.21E-12 | 1.19E-10 | 2.16E-09 | 2.16E-09 | 1.19E-09 | 5.63E-09 | 4.46E-12 | 6.45E-11 | 9.60E-10 | 9.60E-10 | 4.75E-10 | 2.46E-09 |
| 518 | 259837.7 | 4085148 | 5.41E-11 | 7.82E-10 | 1.38E-08 | 1.38E-08 | 7.70E-09 | 3.62E-08 | 8.21E-12 | 1.19E-10 | 2.16E-09 | 2.16E-09 | 1.19E-09 | 5.63E-09 | 4.46E-12 | 6.45E-11 | 9.60E-10 | 9.60E-10 | 4.75E-10 | 2.46E-09 |
| 519 | 259829 | 4085169 | 5.40E-11 | 7.81E-10 | 1.38E-08 | 1.38E-08 | 7.69E-09 | 3.61E-08 | 8.20E-12 | 1.19E-10 | 2.15E-09 | 2.15E-09 | 1.18E-09 | 5.62E-09 | 4.45E-12 | 6.44E-11 | 9.58E-10 | 9.58E-10 | 4.74E-10 | 2.46E-09 |
| 520 | 259820.3 | 4085192 | 5.59E-11 | 7.80E-10 | 1.38E-08 | 1.38E-08 | 7.68E-09 | 3.60E-08 | 8.16E-12 | 1.19E-10 | 2.15E-09 | 2.15E-09 | 1.18E-09 | 5.61E-09 | 4.44E-12 | 6.43E-11 | 9.57E-10 | 9.57E-10 | 4.73E-10 | 2.48E-09 |
| 521 | 259811.6 | 4085215 | 5.57E-11 | 7.76E-10 | 1.37E-08 | 1.37E-08 | 7.64E-09 | 3.59E-08 | 8.15E-12 | 1.16E-10 | 2.14E-09 | 2.14E-09 | 1.18E-09 | 5.58E-09 | 4.42E-12 | 6.40E-11 | 9.52E-10 | 9.52E-10 | 4.71E-10 | 2.44E-09 |
| 522 | 259802.9 | 4085238 | 5.33E-11 | 7.71E-10 | 1.36E-08 | 1.36E-08 | 7.59E-09 | 3.56E-08 | 8.09E-12 | 1.17E-10 | 2.12E-09 | 2.12E-09 | 1.17E-09 | 5.54E-09 | 4.59E-12 | 6.55E-11 | 9.45E-10 | 9.45E-10 | 4.68E-10 | 2.43E-09 |
| 523 | 259794.2 | 4085262 | 5.27E-11 | 7.63E-10 | 1.35E-08 | 1.55E-08 | 7.51E-09 | 3.53E-08 | 8.00E-12 | 1.16E-10 | 2.10E-09 | 2.10E-09 | 1.16E-09 | 5.46E-09 | 4.35E-12 | 6.29E-11 | 9.55E-10 | 9.55E-10 | 4.63E-10 | 2.40E-09 |
| 524 | 259785.5 | 4085285 | 5.20E-11 | 7.52E-10 | 1.33E-08 | 1.33E-08 | 7.41E-09 | 3.48E-08 | 7.89E-12 | 1.15E-10 | 2.07E-09 | 2.07E-09 | 1.14E-09 | 5.41E-09 | 4.29E-12 | 8.20E-11 | 9.23E-10 | 9.23E-10 | 4.57E-10 | 2.37E-09 |
| 525 | 259776.8 | 4085308 | 5.12E-11 | 7.40E-10 | 1.31E-08 | 1.51E-08 | 7.29E-09 | 3.42E-08 | 7.77E-12 | 1.13E-10 | 2.04E-09 | 2.04E-09 | 1.12E-09 | 5.32E-09 | 4.22E-12 | 8.10E-11 | 9.08E-10 | 9.08E-10 | 4.50E-10 | 2.33E-09 |
| 526 | 259768.1 | 4085331 | 5.03E-11 | 7.26E-10 | 1.29E-08 | 1.29E-08 | 7.16E-09 | 3.36E-08 | 7.64E-12 | 1.11E-10 | 2.01E-09 | 2.01E-09 | 1.10E-09 | 5.23E-09 | 4.15E-12 | 6.00E-11 | 8.93E-10 | 8.93E-10 | 4.42E-10 | 2.29E-09 |
| 527 | 259759.4 | 4085354 | 4.94E-11 | 7.14E-10 | 1.26E-08 | 1.26E-08 | 7.03E-09 | 3.30E-08 | 7.50E-12 | 1.09E-10 | 1.97E-09 | 1.97E-09 | 1.08E-09 | 5.14E-09 | 4.07E-12 | 5.89E-11 | 8.78E-10 | 8.76E-10 | 4.34E-10 | 2.25E-09 |
| 528 | 259750.6 | 4085377 | 4.85E-11 | 7.01E-10 | 1.24E-08 | 1.24E-08 | 6.90E-09 | 3.24E-08 | 7.56E-12 | 1.07E-10 | 1.93E-09 | 1.93E-09 | 1.06E-09 | 5.04E-09 | 4.00E-12 | 5.78E-11 | 8.60E-10 | 8.60E-10 | 4.26E-10 | 2.21E-09 |
| 529 | 259741.9 | 4085400 | 4.76E-11 | 6.88E-10 | 1.22E-08 | 1.22E-08 | 6.78E-09 | 3.18E-08 | 7.22E-12 | 1.05E-10 | 1.90E-09 | 1.90E-09 | 1.04E-09 | 4.95E-09 | 3.92E-12 | 5.67E-11 | 8.44E-10 | 8.44E-10 | 4.18E-10 | 2.17E-09 |
| 530 | 259733.2 | 4085424 | 4.67E-11 | 6.76E-10 | 1.19E-08 | 1.19E-08 | 6.65E-09 | 3.12E-08 | 7.09E-12 | 1.03E-10 | 1.86E-09 | 1.86E-09 | 1.02E-09 | 4.86E-09 | 3.85E-12 | 5.57E-11 | 8.29E-10 | 8.29E-10 | 4.10E-10 | 2.13E-09 |
| 531 | 259724.5 | 4085447 | 4.59E-11 | 6.64E-10 | 1.17E-08 | 1.17E-08 | 6.53E-09 | 3.07E-08 | 6.96E-12 | 1.01E-10 | 1.83E-09 | 1.83E-09 | 1.01E-09 | 4.77E-09 | 3.78E-12 | 5.47E-11 | 8.14E-10 | 8.14E-10 | 4.03E-10 | 2.09E-09 |
| 532 | 259715.8 | 4085470 | 4.51E-11 | 6.53E-10 | 1.15E-08 | 1.15E-08 | 6.43E-09 | 3.02E-08 | 6.85E-12 | 9.94E-11 | 1.80E-09 | 1.80E-09 | 9.89E-10 | 4.69E-09 | 3.72E-12 | 5.38E-11 | 8.01E-10 | 6.01E-10 | 3.96E-10 | 2.06E-09 |
| 533 | 259707.1 | 4085493 | 4.44E-11 | 6.42E-10 | 1.13E-08 | 1.13E-08 | 6.32E-09 | 2.97E-08 | 6.74E-12 | 9.79E-11 | 1.77E-09 | 1.77E-09 | 9.74E-10 | 4.62E-09 | 3.66E-12 | 5.29E-11 | 7.88E-10 | 7.88E-10 | 3.90E-10 | 2.02E-09 |
| 534 | 259698.4 | 4085516 | 4.38E-11 | 6.33E-10 | 1.12E-08 | 1.12E-08 | 6.23E-09 | 2.93E-08 | 6.64E-12 | 9.85E-11 | 1.75E-09 | 1.79E-09 | 9.60E-10 | 4.55E-09 | 3.61E-12 | 5.22E-11 | 7.77E-10 | 7.77E-10 | 3.84E-10 | 1.99E-09 |
| 535 | 259689.7 | 4085539 | 4.52E-11 | 6.24E-10 | 1.10E-08 | 1.10E-08 | 6.15E-09 | 2.89E-08 | 6.55E-12 | 9.51E-11 | 1.72E-09 | 1.72E-09 | 9.46E-10 | 4.49E-09 | 3.56E-12 | 5.15E-11 | 7.66E-10 | 7.66E-10 | 3.79E-10 | 1.97E-09 |
| 536 | 259681 | 4085562 | 4.27E-11 | 6.16E-10 | 1.09E-08 | 1.09E-08 | 6.08E-09 | 2.86E-08 | 6.48E-12 | 9.41E-11 | 1.70E-09 | 1.70E-09 | 9.37E-10 | 4.44E-09 | 3.52E-12 | 5.09E-11 | 7.58E-10 | 7.58E-10 | 3.75E-10 | 1.95E-09 |
| 537 | 259672.5 | 4085586 | 4.22E-11 | 6.11E-10 | 1.08E-08 | 1.08E-08 | 6.01E-09 | 2.82E-08 | 6.41E-12 | 9.31E-11 | 1.68E-09 | 1.68E-09 | 9.26E-10 | 4.59E-09 | 3.48E-12 | 5.04E-11 | 7.49E-10 | 7.49E-10 | 3.71E-10 | 1.92E-09 |
| 538 | 259663.6 | 4085609 | 4.18E-11 | 6.05E-10 | 1.07E-08 | 1.07E-08 | 5.96E-09 | 2.80E-08 | 6.35E-12 | 9.22E-11 | 1.67E-09 | 1.67E-09 | 9.17E-10 | 4.35E-09 | 3.45E-12 | 4.99E-11 | 7.42E-10 | 7.42E-10 | 3.67E-10 | 1.91E-09 |
| 539 | 259654.9 | 4085632 | 4.13E-11 | 6.00E-10 | 1.06E-08 | 1.06E-08 | 5.91E-09 | 2.77E-08 | 6.30E-12 | 9.14E-11 | 1.65E-09 | 1.65E-09 | 9.10E-10 | 4.32E-09 | 3.42E-12 | 4.95E-11 | 7.36E-10 | 7.36E-10 | 3.64E-10 | 1.89E-09 |
| 540 | 259646.2 | 4085655 | 4.12E-11 | 5.96E-10 | 1.05E-08 | 1.05E-08 | 5.87E-09 | 2.78E-08 | 6.25E-12 | 9.08E-11 | 1.64E-09 | 1.64E-09 | 9.03E-10 | 4.29E-09 | 3.40E-12 | 4.91E-11 | 7.31E-10 | 7.31E-10 | 3.62E-10 | 1.88E-09 |
| 541 | 259637.5 | 4085678 | 4.09E-11 | 5.92E-10 | 1.05E-08 | 1.05E-08 | 5.83E-09 | 2.74E-08 | 6.21E-12 | 9.02E-11 | 1.63E-09 | 1.83E-09 | 6.97E-10 | 4.26E-09 | 3.37E-12 | 4.88E-11 | 7.26E-10 | 7.26E-10 | 3.59E-10 | 1.86E-09 |
| 542 | 259628.8 | 4085701 | 4.06E-11 | 5.88E-10 | 1.04E-08 | 1.04E-08 | 5.78E-09 | 2.77E-08 | 6.17E-12 | 8.95E-11 | 1.62E-09 | 1.62E-09 | 6.91E-10 | 4.23E-09 | 3.35E-12 | 4.84E-11 | 7.21E-10 | 7.21E-10 | 3.57E-10 | 1.85E-09 |
| 543 | 259620.1 | 4085724 | 4.03E-11 | 5.83E-10 | 1.03E-08 | 1.03E-08 | 5.74E-09 | 2.70E-08 | 6.12E-12 | 8.89E-11 | 1.81E-09 | 1.81E-09 | 8.84E-10 | 4.20E-09 | 3.32E-12 | 4.81E-11 | 7.16E-10 | 7.16E-10 | 3.54E-10 | 1.84E-09 |
| 544 | 259611.4 | 4085748 | 4.00E-11 | 5.78E-10 | 1.02E-08 | 1.02E-08 | 5.69E-09 | 2.67E-08 | 6.07E-12 | 8.81E-11 | 1.59E-09 | 1.59E-09 | 6.76E-10 | 4.16E-09 | 3.29E-12 | 4.76E-11 | 7.09E-10 | 7.09E-10 | 3.51E-10 | 1.82E-09 |
| 545 | 259602.6 | 4085771 | 3.97E-11 | 5.74E-10 | 1.01E-08 | 1.01E-08 | 5.65E-09 | 2.65E-08 | 6.03E-12 | 8.75E-11 | 1.58E-09 | 1.58E-09 | 6.70E-10 | 4.13E-09 | 3.27E-12 | 4.73E-11 | 7.04E-10 | 7.04E-10 | 3.49E-10 | 1.81E-09 |
| 548 | 259593.9 | 4085794 | 3.94E-11 | 5.70E-10 | 1.01E-08 | 1.01E-08 | 5.61E-09 | 2.64E-08 | 5.98E-12 | 8.68E-11 | 1.57E-09 | 1.57E-09 | 6.64E-10 | 4.10E-09 | 3.25E-12 | 4.70E-11 | 6.99E-10 | 6.99E-10 | 3.46E-10 | 1.79E-09 |
| 547 | 259585.2 | 4085817 | 3.91E-11 | 5.65E-10 | 9.98E-09 | 9.98E-09 | 5.57E-09 | 2.61E-08 | 5.93E-12 | 8.61E-11 | 1.56E-09 | 1.58E-09 | 6.57E-10 | 4.07E-09 | 3.22E-12 | 4.66E-11 | 6.94E-10 | 6.94E-10 | 3.43E-10 | 1.78E-09 |
| 548 | 259576.5 | 4085840 | 3.88E-11 | 5.61E-10 | 9.90E-09 | 9.90E-09 | 5.52E-09 | 2.59E-08 | 5.88E-12 | 8.54E-11 | 1.55E-09 | 1.55E-09 | 6.50E-10 | 4.03E-09 | 3.20E-12 | 4.62E-11 | 6.88E-10 | 6.88E-10 | 3.41E-10 | 1.77E-09 |
| 549 | 259567.8 | 4085863 | 3.84E-11 | 5.55E-10 | 9.61E-09 | 9.81E-09 | 5.47E-09 | 2.57E-08 | 5.83E-12 | 8.46E-11 | 1.53E-09 | 1.53E-09 | 6.42E-10 | 4.00E-09 | 3.17E-12 | 4.58E-11 | 8.81E-10 | 6.81E-10 | 3.37E-10 | 1.75E-09 |
| 550 | 259559.1 | 4085887 | 3.80E-11 | 5.49E-10 | 9.70E-09 | 9.70E-09 | 5.41E-09 | 2.54E-08 | 5.76E-12 | 8.37E-11 | 1.51E-09 | 1.51E-09 | 8.53E-10 | 3.95E-09 | 3.13E-12 | 4.53E-11 | 6.74E-10 | 6.74E-10 | 3.34E-10 | 1.73E-09 |
| 551 | 259550.4 | 4085910 | 3.75E-11 | 5.43E-10 | 9.59E-09 | 9.59E-09 | 5.34E-09 | 2.51E-08 | 5.70E-12 | 8.27E-11 | 1.50E-09 | 1.50E-09 | 6.23E-10 | 3.90E-09 | 3.09E-12 | 4.47E-11 | 6.66E-10 | 6.66E-10 | 3.30E-10 | 1.71E-09 |
| 552 | 259541.7 | 4085933 | 3.71E-11 | 5.36E-10 | 9.46E-09 | 9.48E-09 | 5.28E-09 | 2.48E-08 | 5.62E-12 | 6.16E-11 | 1.48E-09 | 1.48E-09 | 8.12E-10 | 3.85E-09 | 3.05E-12 | 4.42E-11 | 6.57E-10 | 6.57E-10 | 3.25E-10 | 1.69E-09 |
| 553 | 259533 | 4085956 | 3.65E-11 | 5.29E-10 | 9.33E-09 | 9.33E-09 | 5.20E-09 | 2.44E-08 | 5.55E-12 | 6.05E-11 | 1.46E-09 | 1.48E-09 | 8.01E-10 | 3.80E-09 | 3.01E-12 | 4.36E-11 | 6.48E-10 | 6.48E-10 | 3.21E-10 | 1.66E-09 |
| 554 | 259524.5 | 4085979 | 3.60E-11 | 3.21E-10 | 9.21E-09 | 9.21E-09 | 5.13E-09 | 2.41E-08 | 5.47E-12 | 7.94E-11 | 1.44E-09 | 1.44E-09 | 7.90E-10 | 3.75E-09 | 2.97E-12 | 4.30E-11 | 6.40E-10 | 6.40E-10 | 3.17E-10 | 1.64E-09 |
| 555 | 259515.6 | 4086002 | 3.56E-11 | 5.14E-10 | 9.08E-09 | 9.08E-09 | 5.06E-09 | 2.38E-08 | 5.40E-12 | 7.84E-11 | 1.42E-09 | 1.42E-09 | 7.80E-10 | 3.70E-09 | 2.93E-12 | 4.24E-11 | 6.31E-10 | 6.31E-10 | 3.12E-10 | 1.62E-09 |
| 556 | 259506.9 | 4086025 | 3.51E-11 | 3.08E-10 | 8.97E-09 | 8.97E-09 | 5.00E-09 | 2.35E-08 | 5.33E-12 | 7.74E-11 | 1.40E-09 | 1.40E-09 | 7.70E-10 | 3.63E-09 | 2.89E-12 | 4.19E-11

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 251 | 259259.7 | 4084945 | 1.28E-10 | 1.86E-09 | 2.28E-08 | 3.36E-08 | 1.82E-08 | 6.58E-08 | 1.95E-11 | 2.83E-10 | 5.12E-09 | 5.12E-09 | 2.81E-09 | 1.34E-08 | 1.06E-11 | 1.52E-10 | 2.28E-09 | 2.28E-09 | 1.13E-09 | 5.85E-09 |
| 252 | 259259 | 4084921 | 1.33E-10 | 1.92E-09 | 2.41E-08 | 3.41E-08 | 1.90E-08 | 8.92E-08 | 2.03E-11 | 2.94E-10 | 5.32E-09 | 5.32E-09 | 2.93E-09 | 1.39E-08 | 1.10E-11 | 1.59E-10 | 2.37E-09 | 2.37E-09 | 1.17E-09 | 6.08E-09 |
| 253 | 259258.3 | 4084896 | 1.39E-10 | 2.01E-09 | 2.54E-08 | 3.54E-08 | 1.97E-08 | 9.37E-08 | 2.10E-11 | 2.06E-10 | 5.52E-09 | 5.52E-09 | 3.04E-09 | 1.44E-08 | 1.14E-11 | 1.65E-10 | 2.46E-09 | 2.46E-09 | 1.32E-09 | 6.32E-09 |
| 254 | 259455.4 | 4085111 | 8.02E-11 | 1.16E-09 | 2.05E-08 | 2.05E-08 | 1.14E-08 | 5.36E-08 | 1.32E-11 | 1.77E-10 | 3.20E-09 | 3.20E-09 | 1.76E-09 | 8.34E-09 | 6.61E-12 | 9.56E-11 | 1.42E-09 | 1.42E-09 | 7.04E-10 | 3.65E-09 |
| 255 | 259446.7 | 4085134 | 7.98E-11 | 1.15E-09 | 2.04E-08 | 2.04E-08 | 1.14E-08 | 5.34E-08 | 1.21E-11 | 1.76E-10 | 3.18E-09 | 3.18E-09 | 1.75E-09 | 8.30E-09 | 6.58E-12 | 9.51E-11 | 1.42E-09 | 1.42E-09 | 7.01E-10 | 3.65E-09 |
| 256 | 259438.1 | 4085157 | 7.92E-11 | 1.15E-09 | 2.03E-08 | 2.03E-08 | 1.13E-08 | 5.30E-08 | 1.20E-11 | 1.75E-10 | 3.16E-09 | 3.16E-09 | 1.74E-09 | 8.25E-09 | 6.54E-12 | 9.45E-11 | 1.41E-09 | 1.41E-09 | 6.96E-10 | 3.61E-09 |
| 257 | 259429.4 | 4085180 | 7.86E-11 | 1.14E-09 | 2.01E-08 | 2.01E-08 | 1.12E-08 | 5.26E-08 | 1.19E-11 | 1.73E-10 | 3.14E-09 | 3.14E-09 | 1.72E-09 | 8.18E-09 | 6.48E-12 | 9.37E-11 | 1.40E-09 | 1.40E-09 | 6.91E-10 | 3.58E-09 |
| 258 | 259420.8 | 4085203 | 7.77E-11 | 1.12E-09 | 1.99E-09 | 1.99E-08 | 1.11E-08 | 5.20E-08 | 1.16E-11 | 1.71E-10 | 3.10E-09 | 3.10E-09 | 1.70E-09 | 8.09E-09 | 6.41E-12 | 9.37E-11 | 1.38E-09 | 1.38E-09 | 6.83E-10 | 3.54E-09 |
| 259 | 259412.3 | 4083226 | 7.66E-11 | 1.11E-09 | 1.96E-09 | 1.96E-08 | 1.09E-08 | 3.12E-08 | 1.16E-11 | 1.69E-10 | 3.05E-09 | 3.05E-09 | 1.68E-09 | 7.97E-09 | 6.31E-12 | 9.13E-11 | 1.36E-09 | 1.36E-09 | 6.73E-10 | 3.49E-09 |
| 260 | 259403.5 | 4083249 | 7.52E-11 | 1.09E-09 | 1.92E-09 | 1.92E-08 | 1.07E-08 | 3.03E-08 | 1.14E-11 | 1.66E-10 | 2.00E-09 | 2.00E-09 | 1.65E-09 | 7.83E-09 | 6.20E-12 | 8.97E-11 | 1.34E-09 | 1.34E-09 | 6.61E-10 | 2.42E-09 |
| 261 | 259394.9 | 4085272 | 7.38E-11 | 1.07E-09 | 1.88E-09 | 1.88E-08 | 1.03E-08 | 4.93E-08 | 1.12E-11 | 1.63E-10 | 2.94E-09 | 2.94E-09 | 1.62E-09 | 7.68E-09 | 6.08E-12 | 8.80E-11 | 1.31E-09 | 1.31E-09 | 6.48E-10 | 3.36E-09 |
| 262 | 259386.3 | 4085295 | 7.22E-11 | 1.04E-09 | 1.84E-08 | 1.84E-08 | 1.03E-08 | 4.83E-08 | 1.10E-11 | 1.59E-10 | 2.88E-09 | 2.88E-09 | 1.58E-09 | 7.51E-09 | 5.93E-12 | 8.61E-11 | 1.28E-09 | 1.28E-09 | 6.34E-10 | 3.29E-09 |
| 263 | 259377.6 | 4083318 | 7.06E-11 | 1.02E-09 | 1.80E-09 | 1.80E-08 | 1.01E-08 | 4.72E-08 | 1.07E-11 | 1.56E-10 | 2.82E-09 | 2.82E-09 | 1.55E-09 | 7.35E-09 | 5.82E-12 | 8.42E-11 | 1.25E-09 | 1.25E-09 | 6.20E-10 | 2.22E-09 |
| 264 | 259269 | 4085341 | 6.89E-11 | 9.97E-10 | 1.76E-09 | 1.76E-08 | 9.82E-09 | 4.61E-08 | 1.05E-11 | 1.52E-10 | 2.75E-09 | 2.75E-09 | 1.51E-09 | 7.17E-09 | 5.66E-12 | 8.32E-11 | 1.22E-09 | 1.22E-09 | 6.05E-10 | 2.14E-09 |
| 265 | 259360.3 | 4085364 | 6.75E-11 | 9.76E-10 | 1.72E-09 | 1.72E-08 | 9.61E-09 | 4.51E-08 | 1.02E-11 | 1.49E-10 | 2.69E-09 | 2.69E-09 | 1.48E-09 | 7.02E-09 | 5.56E-12 | 8.05E-11 | 1.20E-09 | 1.20E-09 | 5.92E-10 | 3.07E-09 |
| 266 | 259251.7 | 4085387 | 6.62E-11 | 9.57E-10 | 1.69E-09 | 1.69E-08 | 9.42E-09 | 4.42E-08 | 1.00E-11 | 1.46E-10 | 2.64E-09 | 2.64E-09 | 1.45E-09 | 6.89E-09 | 5.46E-12 | 7.89E-11 | 1.17E-09 | 1.17E-09 | 5.81E-10 | 2.01E-09 |
| 267 | 259343.1 | 4085410 | 6.50E-11 | 9.40E-10 | 1.66E-09 | 1.66E-08 | 9.26E-09 | 4.35E-08 | 9.86E-12 | 1.42E-10 | 2.59E-09 | 2.59E-09 | 1.43E-09 | 6.76E-09 | 5.36E-12 | 7.75E-11 | 1.15E-09 | 1.15E-09 | 5.71E-10 | 2.96E-09 |
| 268 | 259334.4 | 4085423 | 6.29E-11 | 9.35E-10 | 1.62E-09 | 1.63E-08 | 9.10E-09 | 4.38E-08 | 9.70E-12 | 1.41E-10 | 2.55E-09 | 2.55E-09 | 1.40E-09 | 6.65E-09 | 5.27E-12 | 7.62E-11 | 1.12E-09 | 1.13E-09 | 5.62E-10 | 2.91E-09 |
| 269 | 259225.8 | 4085455 | 6.30E-11 | 9.11E-10 | 1.61E-09 | 1.61E-08 | 6.97E-09 | 4.31E-08 | 9.56E-12 | 1.29E-10 | 2.51E-09 | 2.51E-09 | 1.36E-09 | 6.56E-09 | 5.19E-12 | 7.51E-11 | 1.12E-09 | 1.12E-09 | 5.53E-10 | 2.87E-09 |
| 270 | 259317.3 | 4085478 | 6.21E-11 | 8.99E-10 | 1.59E-09 | 1.39E-08 | 8.85E-09 | 4.16E-08 | 9.43E-12 | 1.37E-10 | 2.48E-09 | 2.48E-09 | 1.36E-09 | 6.46E-09 | 5.12E-12 | 7.41E-11 | 1.10E-09 | 1.10E-09 | 5.46E-10 | 2.63E-09 |
| 271 | 259308.5 | 4085501 | 6.13E-11 | 8.87E-10 | 1.57E-09 | 1.57E-08 | 6.74E-09 | 4.10E-06 | 9.21E-12 | 1.25E-10 | 2.45E-09 | 2.45E-09 | 1.35E-09 | 6.38E-09 | 5.06E-12 | 7.31E-11 | 1.09E-09 | 1.09E-09 | 5.39E-10 | 2.79E-09 |
| 272 | 259299.9 | 4085524 | 6.06E-11 | 8.76E-10 | 1.55E-09 | 1.55E-08 | 6.63E-09 | 4.05E-09 | 9.19E-12 | 1.33E-10 | 2.42E-09 | 2.42E-09 | 1.33E-09 | 6.20E-09 | 4.99E-12 | 7.22E-11 | 1.07E-09 | 1.07E-09 | 5.32E-10 | 2.76E-09 |
| 273 | 259291.2 | 4085547 | 5.98E-11 | 8.65E-10 | 1.52E-09 | 1.53E-08 | 6.52E-09 | 4.00E-08 | 9.08E-12 | 1.32E-10 | 2.39E-09 | 2.39E-09 | 1.31E-09 | 6.22E-09 | 4.92E-12 | 7.13E-11 | 1.06E-09 | 1.06E-09 | 5.26E-10 | 2.73E-09 |
| 274 | 259282.6 | 4085570 | 5.91E-11 | 8.55E-10 | 1.51E-09 | 1.51E-08 | 6.42E-09 | 3.95E-08 | 8.97E-12 | 1.30E-10 | 2.36E-09 | 2.36E-09 | 1.30E-09 | 6.15E-09 | 4.87E-12 | 7.05E-11 | 1.05E-09 | 1.05E-09 | 5.19E-10 | 2.69E-09 |
| 275 | 259274 | 4085593 | 5.84E-11 | 8.44E-10 | 1.49E-09 | 1.49E-08 | 8.31E-09 | 2.90E-09 | 8.86E-12 | 1.29E-10 | 2.32E-09 | 2.33E-09 | 1.38E-09 | 6.07E-09 | 4.81E-12 | 6.96E-11 | 1.04E-09 | 1.04E-09 | 5.13E-10 | 2.66E-09 |
| 276 | 259265.3 | 4085616 | 5.76E-11 | 8.34E-10 | 1.47E-09 | 1.47E-08 | 6.21E-09 | 3.85E-08 | 8.75E-12 | 1.27E-10 | 2.30E-09 | 2.30E-09 | 1.36E-09 | 6.00E-09 | 4.73E-12 | 6.87E-11 | 1.02E-09 | 1.02E-09 | 5.06E-10 | 2.63E-09 |
| 277 | 259256.7 | 4085639 | 5.69E-11 | 8.23E-10 | 1.45E-09 | 1.45E-08 | 6.10E-09 | 3.80E-08 | 8.63E-12 | 1.25E-10 | 2.27E-09 | 2.27E-09 | 1.25E-09 | 5.92E-09 | 4.69E-12 | 6.76E-11 | 1.01E-09 | 1.01E-09 | 4.99E-10 | 2.59E-09 |
| 278 | 259248.1 | 4085662 | 5.61E-11 | 8.11E-10 | 1.42E-09 | 1.43E-08 | 7.98E-09 | 3.75E-08 | 8.51E-12 | 1.24E-10 | 2.24E-09 | 2.24E-09 | 1.23E-09 | 5.83E-09 | 4.62E-12 | 6.68E-11 | 9.93E-10 | 9.93E-10 | 4.92E-10 | 2.55E-09 |
| 279 | 259239.4 | 4085685 | 5.52E-11 | 7.98E-10 | 1.41E-09 | 1.41E-08 | 7.86E-09 | 3.69E-08 | 6.38E-12 | 1.22E-10 | 2.20E-09 | 2.20E-09 | 1.31E-09 | 5.74E-09 | 4.55E-12 | 6.56E-11 | 9.80E-10 | 9.80E-10 | 4.85E-10 | 2.51E-09 |
| 280 | 259230.8 | 4085708 | 5.42E-11 | 7.85E-10 | 1.39E-08 | 1.39E-08 | 7.72E-09 | 2.63E-09 | 6.24E-12 | 1.30E-10 | 2.17E-09 | 2.17E-09 | 1.19E-09 | 5.65E-09 | 4.48E-12 | 6.47E-11 | 9.64E-10 | 9.64E-10 | 4.77E-10 | 2.47E-09 |
| 581 | 259222.1 | 4085721 | 5.34E-11 | 7.72E-10 | 1.36E-08 | 1.36E-08 | 7.61E-09 | 2.57E-08 | 8.11E-12 | 1.18E-10 | 2.13E-09 | 2.13E-09 | 1.17E-09 | 5.56E-09 | 4.40E-12 | 6.37E-11 | 9.48E-10 | 9.48E-10 | 4.69E-10 | 2.43E-09 |
| 382 | 259213.5 | 4085754 | 5.25E-11 | 7.60E-10 | 1.34E-08 | 1.34E-08 | 7.48E-09 | 3.51E-08 | 7.97E-12 | 1.16E-10 | 2.10E-09 | 2.10E-09 | 1.15E-09 | 5.47E-09 | 4.33E-12 | 6.26E-11 | 9.32E-10 | 9.32E-10 | 4.61E-10 | 2.39E-09 |
| 382 | 259204.9 | 4085777 | 5.17E-11 | 7.47E-10 | 1.32E-08 | 1.32E-08 | 7.36E-09 | 3.45E-08 | 7.84E-12 | 1.14E-10 | 2.06E-09 | 2.06E-09 | 1.12E-09 | 5.37E-09 | 4.26E-12 | 6.16E-11 | 9.17E-10 | 9.17E-10 | 4.54E-10 | 2.35E-09 |
| 384 | 259196.2 | 4085800 | 5.09E-11 | 7.36E-10 | 1.30E-08 | 1.30E-08 | 7.24E-09 | 2.40E-08 | 7.72E-12 | 1.12E-10 | 2.03E-09 | 2.03E-09 | 1.12E-09 | 5.29E-09 | 4.19E-12 | 6.06E-11 | 9.03E-10 | 9.03E-10 | 4.47E-10 | 2.32E-09 |
| 385 | 259187.6 | 4085822 | 5.01E-11 | 7.25E-10 | 1.28E-08 | 1.28E-08 | 7.14E-09 | 3.35E-08 | 7.61E-12 | 1.10E-10 | 2.00E-09 | 2.00E-09 | 1.10E-09 | 5.31E-09 | 4.13E-12 | 5.98E-11 | 8.89E-10 | 8.89E-10 | 4.40E-10 | 2.28E-09 |
| 386 | 259179 | 4085846 | 4.95E-11 | 7.15E-10 | 1.26E-08 | 1.26E-08 | 7.04E-09 | 2.31E-08 | 7.51E-12 | 1.09E-10 | 1.97E-09 | 1.97E-09 | 1.08E-09 | 5.15E-09 | 4.08E-12 | 5.90E-11 | 8.76E-10 | 6.78E-10 | 4.34E-10 | 2.25E-09 |
| 387 | 259148 | 4085879 | 4.94E-11 | 7.15E-10 | 1.36E-08 | 1.36E-08 | 7.04E-09 | 3.30E-08 | 7.50E-12 | 1.09E-10 | 1.97E-09 | 1.97E-09 | 1.08E-09 | 5.14E-09 | 4.07E-12 | 5.89E-11 | 8.77E-10 | 6.77E-10 | 4.34E-10 | 2.25E-09 |
| 388 | 259125.8 | 4085889 | 5.00E-11 | 7.23E-10 | 1.28E-08 | 1.28E-08 | 7.12E-09 | 2.34E-08 | 7.59E-12 | 1.10E-10 | 1.99E-09 | 1.99E-09 | 1.10E-09 | 5.20E-09 | 4.12E-12 | 5.96E-11 | 8.67E-10 | 8.87E-10 | 4.39E-10 | 2.28E-09 |
| 389 | 259103.5 | 4085900 | 5.06E-11 | 7.32E-10 | 1.29E-08 | 1.29E-08 | 7.20E-09 | 2.38E-08 | 7.68E-12 | 1.11E-10 | 2.02E-09 | 2.02E-09 | 1.11E-09 | 5.36E-09 | 4.17E-12 | 6.03E-11 | 8.97E-10 | 8.97E-10 | 4.44E-10 | 2.30E-09 |
| 390 | 259081.2 | 4085910 | 5.12E-11 | 7.40E-10 | 1.31E-08 | 1.31E-08 | 7.29E-09 | 3.42E-08 | 7.77E-12 | 1.13E-10 | 2.04E-09 | 2.04E-09 | 1.12E-09 | 5.33E-09 | 4.22E-12 | 6.10E-11 | 9.08E-10 | 9.08E-10 | 4.50E-10 | 2.33E-09 |
| 391 | 259059 | 4085920 | 5.18E-11 | 7.50E-10 | 1.32E-08 | 1.32E-08 | 7.38E-09 | 3.47E-08 | 7.86E-12 | 1.14E-10 | 2.07E-09 | 2.07E-09 | 1.14E-09 | 5.39E-09 | 4.27E-12 | 6.18E-11 | 9.19E-10 | 9.19E-10 | 4.55E-10 | 2.36E-09 |
| 392 | 259036.7 | 4086931 | 5.35E-11 | 7.59E-10 | 1.34E-08 | 1.34E-08 | 7.47E-09 | 2.51E-08 | 7.97E-12 | 1.16E-10 | 2.09E-09 | 2.09E-09 | 1.15E-09 | 5.46E-09 | 4.23E-12 | 6.26E-11 | 9.31E-10 | 9.31E-10 | 4.61E-10 | 2.39E-09 |
| 393 | 259014.4 | 4085941 | 5.32E-11 | 7.69E-10 | 1.36E-08 | 1.36E-08 | 7.57E-09 | 3.56E-08 | 8.07E-12 | 1.17E-10 | 2.12E-09 | 2.12E-09 | 1.17E-09 | 5.53E-09 | 4.38E-12 | 6.34E-11 | 9.43E-10 | 9.43E-10 | 4.67E-10 | 2.42E-09 |
| 394 | 258992.3 | 4085951 | 5.39E-11 | 7.80E-10 | 1.38E-08 | 1.38E-08 | 7.68E-09 | 3.60E-08 | 8.18E-12 | 1.19E-10 | 2.15E-09 | 2.15E-09 | 1.18E-09 | 5.61E-09 | 4.44E-12 | 6.43E-11 | 9.57E-10 | 9.57E-10 | 4.73E-10 | 2.46E-09 |
| 395 | 258969.9 | 4085962 | 5.47E-11 | 7.91E-10 | 1.40E-08 | 1.40E-08 | 7.79E-09 | 3.66E-08 | 6.30E-12 | 1.20E-10 | 2.18E-09 | 2.18E-09 | 1.20E-09 | 5.69E-09 | 4.51E-12 | 6.52E-11 | 9.70E-10 | 9.70E-10 | 4.80E-10 | 2.49E-09 |
| 396 | 258947.6 | 4085972 | 5.54E-11 | 8.02E-10 | 1.42E-08 | 1.42E-08 | 7.89E-09 | 3.71E-08 | 8.41E-12 | 1.22E-10 | 2.21E-09 | 2.21E-09 | 1.21E-09 | 5.77E-09 | 4.57E-12 | 6.61E-11 | 9.83E-10 | 9.83E-10 | 4.87E-10 | 2.52E-09 |
| 397 | 258925.3 | 4085982 | 5.64E-11 | 8.15E-10 | 1.44E-08 | 1.44E-08 | 8.03E-09 | 3.77E-08 | 6.56E-12 | 1.24E-10 | 2.25E-09 | 2.25E-09 | 1.34E-09 | 5.86E-09 | 4.65E-12 | 6.72E-11 | 1.00E-09 | 1.00E-09 | 4.95E-10 | 2.57E-09 |
| 398 | 258903.1 | 4085992 | 5.75E-11 | 8.32E-10 | 1.47E-08 | 1.47E-08 | 6.19E-09 | 3.85E-08 | 8.73E-12 | 1.27E-10 | 2.29E-09 | 2.29E-09 | 1.36E-09 | 5.98E-09 | 4.74E-12 | 6.86E-11 | 1.02E-09 | 1.02E-09 | 5.05E-10 | 2.62E-09 |
| 399 | 258880.8 | 4086003 | 5.88E-11 | 8.50E-10 | 1.50E-08 | 1.50E-08 | 8.37E-09 | 3.93E-08 | 8.92E-12 | 1.29E-10 | 2.34E-09 | 2.34E-09 | 1.29E-09 | 6.11E-09 | 4.84E-12 | 7.00E-11 | 1.04E-09 | 1.04E-09 | 5.16E-10 | 2.68E-09 |
| 400 | 258858.5 | 4086013 | 6.01E-11 | 8.70E-10 | 1.54E-08 | 1.54E-08 | 8.56E-09 | 4.02E-08 | 9.12E-12 | 1.32E-10 | 2.40E-09 | 2.40E-09 | 1.32E-09 | 6.26E-09 | 4.96E-12 | 7.17E-11 | 1.07E-09 | 1.07E-09 | 5.28E-10 | 2.74E-09 |
| 401 | 258836.3 | 4086023 | 6.16E-11 | 8.90E-10 | 1.57E-08 | 1.57E-08 | 8.77E-09 | 4.12E-08 | 9.34E-12 | 1.36E-10 | 2.45E-09 | 2.45E-09 | 1.35E-09 | 6.40E-09 | 5.07E-12 | 7.34E-11 | 1.09E-09 | 1.09E-09 | 5.41E-10 | 2.80E-09 |
| 402 | 258814 | 4086034 | 6.30E-11 | 9.11E-10 | 1.61E-08 | 1.61E-08 | 8.97E-09 | 4.21E-08 | 9.56E-12 | 1.39E-10 | 2.51E-09 | 2.51E-09 | 1.38E-09 | 6.55E-09 | 5.19E-12 | 7.51E-11 | 1.12E-09 | 1.12E-09 | 5.53E-10 | 2.87E-09 |
| 403 | 258791.7 | 4086044 | 6.42E-11 | 9.21E-10 | 1.64E-08 | 1.64E-08 | 9.16E-09 | 4.20E-08 | 9.76E-12 | 1.42E-10 | 2.57E-09 | 2.57E-09 | 1.41E-09 | 6.69E-09 | 5.30E-12 | 7.67E-11 | 1.14E-09 | 1.14E-09 | 5.65E-10 | 2.92E-09 |
| 404 | 258769.5 | 4086054 | 6.56E-11 | 9.49E-10 | 1.68E-08 | 1.68E-08 | 9.34E-09 | 4.39E-08 | 9.95E-12 | 1.45E-10 | 2.62E-09 | 2.62E-09 | 1.44E-09 | 6.82E-09 | 5.41E-12 | 7.62E-11 | 1.16E-09 | 1.16E-09 | 5.76E-10 | 2.99E-09 |
| 405 | 258747.3 | 4086065 | 6.67E-11 | 9.65E-10 | 1.70E-08 | 1.70E-08 | 9.50E-09 | 4.46E-08 | 1.01E-11 | 1.47E-10 | 2.66E-09 | 2.66E-09 | 1.46E-09 | 6.94E-09 | 5.50E-12 | 7.95E-11 | 1.18E-09 | 1.18E-09 | 5.86E-10 | 2.04E-09 |
| 406 | 258724.9 | 4086075 | 6.76E-11 | 9.78E-10 | 1.73E-08 | 1.73E-08 | 9.63E-09 | 4.52E-08 | 1.03E-11 | 1.49E-10 | 2.70E-09 | 2.70E-09 | 1.48E-09 | 7.04E-09 | 5.57E-12 | 8.06E-11 | 1.20E-09 | 1.20E-09 | 5.94E-10 | 2.08E-09 |
| 407 | 258702.6 | 4086085 | 6.84E-11 | 9.90E-10 | 1.75E-08 | 1.75E-08 | 9.75E-09 | 4.58E-08 | 1.04E-11 | 1.51E-10 | 2.73E-09 | 2.73E-09 | 1.50E-09 | 7.12E-09 | 5.64E-12 | 8.16E-11 | 1.21E-09 | 1.21E-09 | 6.01E-10 | 2.12E-09 |
| 408 | 258680.4 | 4086095 | 6.92E-11 | 1.00E-09 | 1.77E-08 | 1.77E-08 | 9.85E-09 | 4.63E-08 | 1.05E-11 | 1.52E-10 | 2.76E-09 | 2.76E-09 | 1.52E-09 | 7.20E-09 | 5.70E-12 | 8.25E-11 | 1.23E-09 | 1.23E-09 | 6.08E-10 | 3.15E-09 |
| 409 | 258658.1 | 4086106 | 6.98E-11 | 1.01E-09 | 1.76E-08 | 1.78E-08 | 9.95E-09 | 4.67E-08 | 1.06E-11 | 1.54E-10 | 2.79E-09 | 2.79E-09 | 1.53E-09 | 7.27E-09 | 3.76E-12 | 8.33E-11 | 1.24E-09 | 1.24E-09 | 6.12E-10 | 3.16E-09 |
| 410 | 258633.8 | 4086116 | 7.05E-11 | 1.02E-09 | 1.80E-08 | 1.80E-08 | 1.00E-08 | 4.71E-08 | 1.07E-11 | 1.55E-10 | 2.81E-09 | 2.81E-09 | 1.55E-09 | 7.33E-09 | 5.81E-12 | 8.41E-11 | 1.25E-09 | 1.25E-09 | 6.19E-10 | 3.21E-09 |
| 411 | 258612.6 | 4086126 | 7.12E-11 | 1.03E-09 | 1.82E-08 | 1.82E-08 | 1.01E-08 | 4.76E-08 | 1.08E-11 | 1.57E-10 | 2.84E-09 | 2.84E-09 | 1.58E-09 | 7.41E-09 | 5.87E-12 | 8.49E-11 | 1.26E-09 | 1.26E-09 | 6.35E-10 | 2.24E-09 |
| 412 | 258591.3 | 4086137 | 7.19E-11 | 1.04E-09 | 1.84E-08 | 1.84E-08 | 1.02E-08 | 4.81E-08 | 1.09E-11 | 1.58E-10 | 2.87E-09 | 2.87E-09 | 1.58E-09 | 7.48E-09 | 5.92E-12 | 8.57E-11 | 1.28E-09 | 1.28E-09 | 6.32E-10 | 3.37E-09 |
| 413 | 258569 | 4086147 | 7.27E-11 | 1.05E-09 | 1.86E-08 | 1.86E-08 | 1.04E-08 | 4.86E-08 | 1.10E-11 | 1.60E-10 | 2.90E-09 | 2.90E-09 | 1.59E-09 | 7.56E-09 | 3.99E-12 | 6.67E-11 | 1.29E-09 | 1.29E-09 | 6.38E-10 | 3.31E-09 |
| 414 | 258546.8 | 4086157 | 7.35E-11 | 1.06E-09 | 1.88E-08 | 1.88E-08 | 1.05E-08 | 4.92E-08 | 1.12E-11 | 1.62E-10 | 2.93E-09 | 2.93E-09 | 1.61E-09 | 7.65E-09 | 6.06E-12 | 6.77E-11 | 1.50E-09 | 1.30E-09 | 6.48E-10 | 3.35E-09 |
| 415 | 258524.5 | 4086168 | 7.45E-11 | 1.08E-09 | 1.90E-08 | 1.90E-08 | 1.06E-08 | 4.98E-08 | 1.13E-11 | 1.64E-10 | 2.97E-09 | 2.97E-09 | 1.63E-09 | 7.75E-09 | 6.14E-12 | 8.88E-11 | 1.32E-09 | 1.32E-09 | 8.54E-10 | 3.39E-09 |
| 416 | 258502.3 | 4086178 | 7.53E-11 | 1.09E-09 | 1.93E-08 | 1.92E-08 | 1.07E-08 | 5.05E-08 | 1.13E-11 | 1.66E-10 | 2.01E-09 | 2.01E-09 | 1.65E-09 | 7.85E-09 | 6.32E-12 | 9.00E-11 | 1.34E-09 | 1.34E-09 | 6.63E-10 | 3.44E-09 |
| 417 | 258479.9 | 4086188 | 7.65E-11 | 1.11E-09 | 1.95E-08 | 1.95E-08 | 1.09E-08 | 5.12E-08 | 1.16E-11 | 1.69E-10 | 3.05E-09 | 2.05E-09 | 1.68E-09 | 7.96E-09 | 6.31E-12 | 9.12E-11 | 1.36E-09 | 1.36E-09 | 6.72E-10 | 3.49E-09 |
| 418 | 258457.7 | 4085158 | 7.78E-11 | 1.12E-09 | 1.98E-08 | 1.98E-08 | 1.10E-08 | 5.19E-08 | 1.18E-11 | 1.71E-10 | 3.09E-09 | 2.09E-09 | 1.70E-09 | 8.07E-09 | 6.40E-12 | 9.25E-11 | 1.38E-09 | 1.38E-09 | 6.81E-10 | 3.52E-09 |
| 419 | 258435.4 | 4086209 | 7.86E-11 | 1.14E-09 | 2.01E-08 | 2.01E-08 | 1.12E-08 | 5.27E-08 | 1.20E-11 | 1.74E-10 | 3.14E-09 | 2.14E-09 | 1.72E-09 | 8.20E-09 | 6.50E-12 | 9.40E-11 | 1.40E-09 | 1.40E-09 | 6.92E-10 | 2.59E-09 |
| 420 | 259464 | 4085088 | 8.06E-11 | 1.17E-09 | 2.06E-08 | 2.06E-08 | 1.15E-08 | 5.39E-08 | 1.22E-11 | 1.78E-10 | 3.21E-09 | 2.21E-09 | 1.77E-09 | 8.38E-09 | 6.64E-12 | 9.60E-11 | 1.43E-09 | 1.42E-09 | 7.08E-10 | 3.67E-09 |
| 421 | 259463.3 | 4085063 | 8.21E-11 | 1.19E-09 | 2.10E-08 | 2.10E-08 | 1.17E-08 | 5.49E-08 | 1.25E-11 | 1.81E-10 | 3.27E-09 | 2.27E-09 | 1.80E-09 | 8.54E-09 | 6.77E-12 | 9.79E-11 | 1.46E-09 | 1.46E-09 | 7.21E-10 | 2.74E-09 |
| 422 | 259462.6 | 4085039 | 8.41E-11 | 1.22E-09 | 2.15E-08 | 2.15E-08 | 1.20E-08 | 5.62E-08 | 1.28E-11 | 1.85E-10 | 2.35E-09 | 2.35E-09 | 1.84E-09 | 8.74E-09 | 6.92E-12 | 1.00E-10 | 1.49E-09 | 1.49E-09 | 7.58E-10 | 2.82E-09 |
| 422 | 259461.8 | 4085014 | 8.63E-11 | 1.25E-09 | 2.20E-08 | 2.20E-08 | 1.22E-08 | 5.77E-08 | 1.31E-11 | 1.90E-10 | 3.44E-09 | 2.44E-09 | 1.89E-09 | 8.98E-09 | 7.11E-12 | 1.02E-10 | 1.52E-09 | 1.52E-09 | 7.58E-10 | 2.92E-09 |
| 424 | 259461.1 | 4084989 | 8.90E-11 | 1.29E-09 | 2.27E-08 | 2.27E-08 | 1.27E-08 | 5.95E-08 | 1.25E-11 | 1.96E-10 | 2.55E-09 | 2.55E-09 | 1.95E-09 | 9.25E-09 | 7.33E-12 | 1.06E-10 | 1.58E-09 | 1.58E-09 | 7.81E-10 | 4.05E-09 |
| 425 | 259460.4 | 4084964 | 9.19E-11 | 1.33E-09 | 2.35E-08 | 2.35E-08 | 1.21E-08 | 6.15E-08 | 1.39E-11 | 2.03E-10 | 3.67E-09 | 3.67E-09 | 2.02E-09 | 9.56E-09 | 7.56E-12 | 1.10E-10 | 1.62E-09 | 1.65E-09 | 6.07E-10 | 4.19E-09 |
| 426 | 259459.7 | 4084929 | 9.51E-11 | 1.38E-09 | 2.43E-08 | 2.42E-08 | 1.25E-08 | 6.26E-08 | 1.44E-11 | 2.10E-10 | 2.79E-09 | 3.79E-09 | 2.09E-09 | 9.90E-09 | 7.84E-12 | 1.12E-10 | 1.69E-09 | 1.69E-09 | 8.36E-10 | 4.33E-09 |
| 427 | 259458.9 | 4084915 | 9.85E-11 | 1.42E-09 | 2.52E-08 | 2.52E-08 | 1.40E-08 | 6.56E-08 | 1.49E-11 | 2.17E-10 | 2.93E-09 | 2.93E-09 | 2.16E-09 | 1.02E-08 | 8.12E-12 | 1.17E-10 | 1.75E-09 | 1.75E-09 | 8.65E-10 | 4.48E-09 |
| 428 | 259458.2 | 4084890 | 1.02E-10 | 1.47E-09 | 2.60E-08 | 2.60E-08 | 1.45E-08 | 6.81E-08 | 1.55E-11 | 2.24E-10 | 4.06E-09 | 4.06E-09 | 2.22E-09 | 1.06E-08 | 6.39E-12 | 1.21E-10 | 1.81E-09 | 1.81E-09 | 8.94E-10 | 4.64E-09 |
| 429 | 259655.2 | 4083105 | 6.47E-11 | 9.36E-10 | 1.63E-08 | 1.65E-08 | 9.22E-09 | 4.33E-08 | 9.82E-12 | 1.43E-10 | 2.56E-09 | 2.58E-09 | 1.42E-09 | 6.73E-09 | 5.34E-12 | 7.72E-11 | 1.15E-09 | 1.15E-09 | 5.69E-10 | 2.95E-09 |
| 430 | 259648.6 | 4083178 | 6.46E-11 | 9.35E-10 | 1.63E-08 | 1.65E-08 | 9.20E-09 | 4.32E-09 | 9.81E-12 | 1.42E-10 | 2.58E-09 | 2.58E-09 | 1.42E-09 | 6.72E-09 | 5.21E-12 | 7.71E-11 | 1.15E-09 | 1.15E-09 | 5.68E-10 | 2.94E-09 |
| 431 | 259637.9 | 4085151 | 6.45E-11 | 9.33E-10 | 1.65E-08 | 1.65E-08 | 9.18E-09 | 4.31E-08 | 9.79E-12 | 1.42E-10 | 2.57E-09 | 2.57E-09 | 1.41E-09 | 6.71E-09 | 5.32E-12 | 7.69E-11 | 1.14E-09 | 1.14E-09 | 5.66E-10 | 2.94E-09 |
| 432 | 259629.3 | 4083174 | 6.42E-11 | 9.28E-10 | 1.64E-08 | 1.64E-08 | 9.14E-09 | 4.29E-08 | 9.74E-12 | 1.41E-10 | 2.56E-09 | 2.56E-09 | 1.41E-09 | 6.67E-09 | 5.39E-12 | 7.65E-11 | 1.14E-09 | 1.14E-09 | 5.63E-10 | 2.92E-09 |
| 422 | 259620.5 | 4083198 | 6.37E-11 | 9.22E-10 | 1.62E-08 | 1.62E-08 | 9.07E-09 | 4.26E-08 | 9.67E-12 | 1.40E-10 | 2.54E-09 | 2.54E-09 | 1.40E-09 | 6.63E-09 | 5.25E-12 | 7.60E-11 | 1.13E-09 | 1.13E-09 | 5.60E-10 | 2.90E-09 |
| 434 | 259611.8 | 4085221 | 6.21E-11 | 9.12E-10 | 1.61E-08 | 1.61E-08 | 8.99E-09 | 4.22E-08 | 9.58E-12 | 1.29E-10 | 2.52E-09 | 2.52E-09 | 1.38E-09 | 6.57E-09 | 5.21E-12 | 7.53E-11 | 1.12E-09 | 1.12E-09 | 5.55E-10 | 2.88E-09 |
| 425 | 259603.2 | 4085244 | 6.24E-11 | 9.02E-10 | 1.59E-08 | 1.59E-08 | 8.88E-09 | 4.17E-08 | 9.47E-12 | 1.37E-10 | 2.49E-09 | 2.49E-09 | 1.37E-09 | 6.49E-09 | 5.14E-12 | 7.44E-11 | 1.11E-09 | 1.11E-09 | 5.48E-10 | 2.84E-09 |
| 436 | 259594.5 | 4085267 | 6.14E-11 | 8.88E-10 | 1.57E-08 | 1.57E-08 | 8.75E-09 | 4.11E-08 | 9.32E-12 | 1.35E-10 | 2.45E-09 | 2.45E-09 | 1.35E-09 | 6.39E-09 | 5.06E-12 | 7.32E-11 | 1.09E-09 | 1.09E-09 | 5.39E-10 | 2.80E-09 |
| 427 | 259585.8 | 4085290 | 6.04E-11 | 8.72E-10 | 1.54E-08 | 1.54E-08 | 6.60E-09 | 4.04E-08 | 9.16E-12 | 1.33E-10 | 2.41E-09 | 2.41E-09 | 1.32E-09 | 6.38E-09 | 4.98E-12 | 7.20E-11 | 1.07E-09 | 1.07E-09 | 5.30E-10 | 2.75E-09 |
| 426 | 259577.1 | 4085212 | 5.92E-11 | 8.57E-10 | 1.51E-08 | 1.51E-08 | 6.43E-09 | 2.96E-08 | 6.99E-12 | 1.31E-10 | 2.36E-09 | 2.36E-09 | 1.30E-09 | 6.16E-09 | 4.68E-12 | 7.06E-11 | 1.05E-09 | 1.05E-09 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 233 | 258963.8 | 4085053 | 2.00E-10 | 2.89E-09 | 5.10E-08 | 5.10E-08 | 2.84E-08 | 1.34E-07 | 3.03E-11 | 4.40E-10 | 7.97E-09 | 7.97E-09 | 4.36E-09 | 2.08E-08 | 1.65E-11 | 2.38E-10 | 3.54E-09 | 3.54E-09 | 1.75E-09 | 9.10E-09 |
| 234 | 258962 | 4085028 | 2.10E-10 | 3.03E-09 | 5.35E-08 | 5.35E-08 | 2.99E-08 | 1.40E-07 | 3.18E-11 | 4.62E-10 | 8.36E-09 | 8.36E-09 | 4.60E-09 | 2.18E-08 | 1.73E-11 | 2.50E-10 | 3.72E-09 | 3.72E-09 | 1.84E-09 | 9.55E-09 |
| 235 | 258961.3 | 4085004 | 2.20E-10 | 3.19E-09 | 5.63E-08 | 5.63E-08 | 3.14E-08 | 1.47E-07 | 3.35E-11 | 4.86E-10 | 8.79E-09 | 8.79E-09 | 4.82E-09 | 2.29E-08 | 1.82E-11 | 2.63E-10 | 3.91E-09 | 3.91E-09 | 1.94E-09 | 1.00E-08 |
| 236 | 258960.6 | 4084979 | 2.32E-10 | 3.36E-09 | 5.93E-08 | 5.93E-08 | 3.31E-08 | 1.55E-07 | 3.52E-11 | 5.11E-10 | 9.26E-09 | 9.26E-09 | 5.09E-09 | 2.42E-08 | 1.91E-11 | 2.77E-10 | 4.12E-09 | 4.12E-09 | 2.04E-09 | 1.06E-08 |
| 237 | 258959.9 | 4084954 | 2.45E-10 | 3.54E-09 | 6.25E-08 | 6.25E-08 | 3.48E-08 | 1.64E-07 | 3.71E-11 | 5.39E-10 | 9.76E-09 | 9.76E-09 | 5.37E-09 | 2.55E-08 | 2.02E-11 | 2.92E-10 | 4.34E-09 | 4.34E-09 | 2.15E-09 | 1.11E-08 |
| 238 | 258959.2 | 4084929 | 2.58E-10 | 3.73E-09 | 6.60E-08 | 6.60E-08 | 3.68E-08 | 1.73E-07 | 3.92E-11 | 5.69E-10 | 1.03E-08 | 1.03E-08 | 5.66E-09 | 2.69E-08 | 2.13E-11 | 3.08E-10 | 4.58E-09 | 4.58E-09 | 2.27E-09 | 1.16E-08 |
| 239 | 258958.4 | 4084905 | 2.72E-10 | 3.94E-09 | 6.96E-08 | 6.96E-08 | 3.88E-08 | 1.82E-07 | 4.13E-11 | 6.00E-10 | 1.09E-08 | 1.09E-08 | 5.97E-09 | 2.83E-08 | 2.25E-11 | 3.25E-10 | 4.83E-09 | 4.83E-09 | 2.39E-09 | 1.24E-08 |
| 240 | 259055.7 | 4085122 | 1.48E-10 | 2.11E-09 | 3.72E-08 | 3.73E-08 | 2.08E-08 | 9.75E-08 | 2.21E-11 | 3.21E-10 | 5.82E-09 | 5.82E-09 | 3.20E-09 | 1.52E-08 | 1.20E-11 | 1.74E-10 | 2.59E-09 | 2.59E-09 | 1.28E-09 | 6.64E-09 |
| 241 | 259047.2 | 4085145 | 1.43E-10 | 2.07E-09 | 3.66E-08 | 3.66E-08 | 2.04E-08 | 9.59E-08 | 2.18E-11 | 3.16E-10 | 5.72E-09 | 5.72E-09 | 3.14E-09 | 1.49E-08 | 1.18E-11 | 1.71E-10 | 2.54E-09 | 2.54E-09 | 1.26E-09 | 6.53E-09 |
| 242 | 259038.7 | 4085167 | 1.41E-10 | 2.03E-09 | 3.59E-08 | 3.59E-08 | 2.00E-08 | 9.41E-08 | 2.14E-11 | 3.10E-10 | 5.61E-09 | 5.61E-09 | 3.08E-09 | 1.46E-08 | 1.16E-11 | 1.68E-10 | 2.50E-09 | 2.50E-09 | 1.24E-09 | 6.41E-09 |
| 243 | 259030.2 | 4085190 | 1.37E-10 | 1.99E-09 | 3.51E-08 | 3.51E-08 | 1.96E-08 | 9.19E-08 | 2.09E-11 | 3.03E-10 | 5.48E-09 | 5.48E-09 | 3.01E-09 | 1.43E-08 | 1.13E-11 | 1.64E-10 | 2.44E-09 | 2.44E-09 | 1.21E-09 | 6.26E-09 |
| 244 | 259021.7 | 4085213 | 1.34E-10 | 1.93E-09 | 3.42E-08 | 3.42E-08 | 1.90E-08 | 8.94E-08 | 2.03E-11 | 2.95E-10 | 5.33E-09 | 5.33E-09 | 2.93E-09 | 1.39E-08 | 1.10E-11 | 1.59E-10 | 2.37E-09 | 2.37E-09 | 1.17E-09 | 6.09E-09 |
| 245 | 259013.2 | 4085235 | 1.30E-10 | 1.88E-09 | 3.33E-08 | 3.33E-08 | 1.85E-08 | 8.71E-08 | 1.98E-11 | 2.87E-10 | 5.19E-09 | 5.19E-09 | 2.86E-09 | 1.36E-08 | 1.07E-11 | 1.55E-10 | 2.31E-09 | 2.31E-09 | 1.14E-09 | 5.93E-09 |
| 246 | 259004.7 | 4085258 | 1.27E-10 | 1.82E-09 | 3.24E-08 | 3.24E-08 | 1.61E-08 | 8.48E-08 | 1.93E-11 | 2.80E-10 | 5.06E-09 | 5.06E-09 | 2.76E-09 | 1.32E-08 | 1.05E-11 | 1.51E-10 | 2.25E-09 | 2.25E-09 | 1.11E-09 | 5.78E-09 |
| 247 | 258996.2 | 4085280 | 1.24E-10 | 1.79E-09 | 3.16E-08 | 3.16E-08 | 1.76E-08 | 6.26E-08 | 1.88E-11 | 2.72E-10 | 4.93E-09 | 4.93E-09 | 2.71E-09 | 1.29E-08 | 1.02E-11 | 1.47E-10 | 2.19E-09 | 2.19E-09 | 1.09E-09 | 5.63E-09 |
| 248 | 258987.7 | 4085303 | 1.21E-10 | 1.74E-09 | 3.08E-08 | 3.08E-08 | 1.72E-08 | 8.06E-08 | 1.83E-11 | 2.66E-10 | 4.81E-09 | 4.81E-09 | 2.64E-09 | 1.25E-08 | 9.94E-12 | 1.44E-10 | 2.14E-09 | 2.14E-09 | 1.06E-09 | 5.49E-09 |
| 249 | 258979.2 | 4085326 | 1.18E-10 | 1.70E-09 | 3.00E-08 | 3.00E-08 | 1.67E-08 | 7.86E-08 | 1.78E-11 | 2.59E-10 | 4.69E-09 | 4.69E-09 | 2.58E-09 | 1.22E-08 | 9.69E-12 | 1.40E-10 | 2.09E-09 | 2.09E-09 | 1.03E-09 | 5.36E-09 |
| 250 | 258970.7 | 4085348 | 1.15E-10 | 1.66E-09 | 2.93E-08 | 2.93E-08 | 1.84E-08 | 7.68E-08 | 1.74E-11 | 2.53E-10 | 4.58E-09 | 4.58E-09 | 2.52E-09 | 1.20E-08 | 9.47E-12 | 1.37E-10 | 2.04E-09 | 2.04E-09 | 1.01E-09 | 5.23E-09 |
| 251 | 258962.2 | 4085371 | 1.12E-10 | 1.62E-09 | 2.87E-08 | 2.67E-08 | 1.60E-08 | 7.51E-08 | 1.70E-11 | 2.47E-10 | 4.48E-09 | 4.48E-09 | 2.46E-09 | 1.17E-08 | 9.25E-12 | 1.34E-10 | 1.99E-09 | 1.99E-09 | 9.86E-10 | 5.11E-09 |
| 252 | 258953.7 | 4085393 | 1.10E-10 | 1.59E-09 | 2.80E-08 | 2.80E-08 | 1.56E-08 | 7.33E-08 | 1.66E-11 | 2.42E-10 | 4.37E-09 | 4.37E-09 | 2.40E-09 | 1.14E-08 | 9.04E-12 | 1.31E-10 | 1.95E-09 | 1.95E-09 | 9.63E-10 | 4.99E-09 |
| 253 | 256945.2 | 4085416 | 1.07E-10 | 1.55E-09 | 2.74E-08 | 2.74E-08 | 1.53E-08 | 7.16E-08 | 1.63E-11 | 2.36E-10 | 4.27E-09 | 4.27E-09 | 2.35E-09 | 1.11E-08 | 8.83E-12 | 1.28E-10 | 1.90E-09 | 1.90E-09 | 9.41E-10 | 4.88E-09 |
| 254 | 258938.7 | 4085438 | 1.05E-10 | 1.51E-09 | 2.67E-08 | 2.67E-08 | 1.49E-08 | 6.99E-08 | 1.59E-11 | 2.30E-10 | 4.17E-09 | 4.17E-09 | 2.29E-09 | 1.09E-08 | 8.62E-12 | 1.25E-10 | 1.86E-09 | 1.86E-09 | 9.19E-10 | 4.76E-09 |
| 255 | 258926.2 | 4085461 | 1.02E-10 | 1.48E-09 | 2.61E-08 | 2.61E-08 | 1.45E-08 | 6.83E-08 | 1.55E-11 | 2.25E-10 | 4.07E-09 | 4.07E-09 | 2.24E-09 | 1.06E-08 | 8.41E-12 | 1.22E-10 | 1.81E-09 | 1.81E-09 | 8.96E-10 | 4.65E-09 |
| 256 | 258919.8 | 4085484 | 9.96E-11 | 1.44E-09 | 2.54E-08 | 2.54E-08 | 1.42E-08 | 6.66E-08 | 1.51E-11 | 2.19E-10 | 3.97E-09 | 3.97E-09 | 2.18E-09 | 1.04E-08 | 8.21E-12 | 1.19E-10 | 1.77E-09 | 1.77E-09 | 8.75E-10 | 4.54E-09 |
| 257 | 258911.3 | 4085506 | 9.72E-11 | 1.41E-09 | 2.48E-08 | 2.48E-08 | 1.38E-08 | 6.50E-08 | 1.48E-11 | 2.14E-10 | 3.88E-09 | 3.88E-09 | 2.13E-09 | 1.01E-08 | 8.02E-12 | 1.16E-10 | 1.73E-09 | 1.73E-09 | 8.54E-10 | 4.43E-09 |
| 258 | 258902.8 | 4085529 | 9.50E-11 | 1.37E-09 | 2.42E-08 | 2.43E-08 | 1.35E-08 | 6.33E-08 | 1.44E-11 | 2.09E-10 | 3.79E-09 | 3.79E-09 | 2.08E-09 | 9.88E-09 | 7.83E-12 | 1.13E-10 | 1.69E-09 | 1.69E-09 | 8.34E-10 | 4.33E-09 |
| 259 | 258894.3 | 4085551 | 9.26E-11 | 1.34E-09 | 2.37E-08 | 2.37E-08 | 1.32E-08 | 6.21E-08 | 1.41E-11 | 2.05E-10 | 3.70E-09 | 3.70E-09 | 2.04E-09 | 9.66E-09 | 7.65E-12 | 1.11E-10 | 1.65E-09 | 1.65E-09 | 8.15E-10 | 4.23E-09 |
| 260 | 258885.8 | 4085574 | 9.09E-11 | 1.31E-09 | 2.32E-08 | 2.32E-08 | 1.29E-08 | 6.08E-08 | 1.38E-11 | 2.00E-10 | 3.62E-09 | 3.62E-09 | 1.99E-09 | 9.46E-09 | 7.49E-12 | 1.08E-10 | 1.61E-09 | 1.61E-09 | 7.98E-10 | 4.14E-09 |
| 261 | 258855.4 | 4085607 | 9.04E-11 | 1.31E-09 | 2.31E-08 | 2.31E-08 | 1.29E-08 | 6.05E-08 | 1.37E-11 | 1.99E-10 | 3.61E-09 | 3.61E-09 | 1.98E-09 | 9.41E-09 | 7.45E-12 | 1.08E-10 | 1.60E-09 | 1.60E-09 | 7.94E-10 | 4.12E-09 |
| 262 | 258833.5 | 4085617 | 9.19E-11 | 1.33E-09 | 2.35E-08 | 2.35E-08 | 1.31E-08 | 6.14E-08 | 1.39E-11 | 2.02E-10 | 3.66E-09 | 3.66E-09 | 2.01E-09 | 9.56E-09 | 7.57E-12 | 1.10E-10 | 1.63E-09 | 1.63E-09 | 8.07E-10 | 4.18E-09 |
| 263 | 258811.6 | 4085627 | 9.35E-11 | 1.35E-09 | 2.39E-08 | 2.39E-08 | 1.33E-08 | 6.25E-08 | 1.42E-11 | 2.06E-10 | 3.73E-09 | 3.73E-09 | 2.05E-09 | 9.73E-09 | 7.71E-12 | 1.11E-10 | 1.66E-09 | 1.66E-09 | 8.21E-10 | 4.26E-09 |
| 264 | 258789.7 | 4085627 | 9.51E-11 | 1.38E-09 | 2.42E-08 | 2.43E-08 | 1.33E-08 | 6.36E-08 | 1.44E-11 | 2.10E-10 | 3.79E-09 | 3.79E-09 | 2.09E-09 | 9.90E-09 | 7.84E-12 | 1.13E-10 | 1.69E-09 | 1.69E-09 | 8.36E-10 | 4.33E-09 |
| 265 | 258767.8 | 4085647 | 9.70E-11 | 1.40E-09 | 2.48E-08 | 2.48E-08 | 1.38E-08 | 6.48E-08 | 1.47E-11 | 2.14E-10 | 3.87E-09 | 3.87E-09 | 2.13E-09 | 1.01E-08 | 7.99E-12 | 1.16E-10 | 1.72E-09 | 1.72E-09 | 8.52E-10 | 4.42E-09 |
| 266 | 258745.9 | 4085657 | 9.90E-11 | 1.42E-09 | 2.53E-08 | 2.53E-08 | 1.41E-08 | 6.62E-08 | 1.50E-11 | 2.18E-10 | 3.95E-09 | 3.95E-09 | 2.17E-09 | 1.03E-08 | 8.16E-12 | 1.18E-10 | 1.76E-09 | 1.76E-09 | 8.70E-10 | 4.51E-09 |
| 267 | 258724 | 4085667 | 1.01E-10 | 1.47E-09 | 2.59E-08 | 2.59E-08 | 1.44E-08 | 6.78E-08 | 1.54E-11 | 2.23E-10 | 4.04E-09 | 4.04E-09 | 2.22E-09 | 1.05E-08 | 8.36E-12 | 1.21E-10 | 1.80E-09 | 1.80E-09 | 8.90E-10 | 4.62E-09 |
| 268 | 258702.1 | 4085678 | 1.04E-10 | 1.50E-09 | 2.65E-08 | 2.65E-08 | 1.48E-08 | 6.95E-08 | 1.36E-11 | 2.29E-10 | 4.14E-09 | 4.14E-09 | 2.28E-09 | 1.08E-08 | 8.57E-12 | 1.24E-10 | 1.84E-09 | 1.84E-09 | 9.13E-10 | 4.72E-09 |
| 269 | 258680.2 | 4085688 | 1.07E-10 | 1.54E-09 | 2.72E-08 | 2.72E-08 | 1.52E-08 | 7.13E-08 | 1.82E-11 | 2.35E-10 | 4.25E-09 | 4.25E-09 | 2.34E-09 | 1.11E-08 | 8.79E-12 | 1.27E-10 | 1.89E-09 | 1.89E-09 | 9.36E-10 | 4.86E-09 |
| 270 | 258658.3 | 4085698 | 1.09E-10 | 1.58E-09 | 2.79E-08 | 2.79E-08 | 1.56E-08 | 7.31E-08 | 1.66E-11 | 2.41E-10 | 4.36E-09 | 4.36E-09 | 2.40E-09 | 1.14E-08 | 9.01E-12 | 1.30E-10 | 1.94E-09 | 1.94E-09 | 9.60E-10 | 4.98E-09 |
| 271 | 258636.4 | 4085708 | 1.12E-10 | 1.62E-09 | 2.86E-08 | 2.86E-08 | 1.59E-08 | 7.48E-08 | 1.70E-11 | 2.47E-10 | 4.46E-09 | 4.46E-09 | 2.45E-09 | 1.16E-08 | 9.23E-12 | 1.33E-10 | 1.99E-09 | 1.99E-09 | 9.83E-10 | 5.10E-09 |
| 272 | 258614.5 | 4085718 | 1.14E-10 | 1.65E-09 | 2.92E-08 | 2.92E-08 | 1.63E-08 | 7.64E-08 | 1.73E-11 | 2.52E-10 | 4.56E-09 | 4.56E-09 | 2.50E-09 | 1.19E-08 | 9.42E-12 | 1.36E-10 | 2.03E-09 | 2.03E-09 | 1.00E-09 | 5.20E-09 |
| 273 | 258592.6 | 4085778 | 1.16E-10 | 1.68E-09 | 2.97E-08 | 2.97E-08 | 1.66E-08 | 7.78E-08 | 1.77E-11 | 2.56E-10 | 4.64E-09 | 4.64E-09 | 2.55E-09 | 1.21E-08 | 9.59E-12 | 1.29E-10 | 2.06E-09 | 2.06E-09 | 1.02E-09 | 5.30E-09 |
| 274 | 258570.7 | 4085738 | 1.16E-10 | 1.71E-09 | 3.02E-08 | 3.02E-08 | 1.68E-08 | 7.91E-08 | 1.79E-11 | 2.61E-10 | 4.72E-09 | 4.72E-09 | 2.59E-09 | 1.23E-08 | 9.75E-12 | 1.41E-10 | 2.10E-09 | 2.10E-09 | 1.04E-09 | 5.39E-09 |
| 275 | 258548.6 | 4085749 | 1.20E-10 | 1.74E-09 | 3.07E-08 | 3.07E-08 | 1.71E-08 | 8.03E-08 | 1.82E-11 | 2.65E-10 | 4.79E-09 | 4.79E-09 | 2.63E-09 | 1.25E-08 | 9.90E-12 | 1.42E-10 | 2.13E-09 | 2.13E-09 | 1.06E-09 | 5.47E-09 |
| 276 | 258526.6 | 4085759 | 1.22E-10 | 1.77E-09 | 3.12E-08 | 3.12E-08 | 1.74E-08 | 8.17E-08 | 1.85E-11 | 2.69E-10 | 4.87E-09 | 4.67E-09 | 2.68E-09 | 1.27E-08 | 1.01E-11 | 1.46E-10 | 2.17E-09 | 2.17E-09 | 1.07E-09 | 5.56E-09 |
| 277 | 258504.9 | 4085769 | 1.24E-10 | 1.80E-09 | 3.18E-08 | 3.18E-08 | 1.77E-08 | 8.32E-08 | 1.89E-11 | 2.74E-10 | 4.96E-09 | 4.96E-09 | 2.73E-09 | 1.29E-08 | 1.03E-11 | 1.48E-10 | 2.21E-09 | 2.21E-09 | 1.09E-09 | 5.67E-09 |
| 279 | 258483 | 4085779 | 1.27E-10 | 1.83E-09 | 3.24E-08 | 3.24E-08 | 1.81E-08 | 8.48E-08 | 1.92E-11 | 2.79E-10 | 5.06E-09 | 5.06E-09 | 2.78E-09 | 1.32E-08 | 1.05E-11 | 1.51E-10 | 2.25E-09 | 2.25E-09 | 1.11E-09 | 5.77E-09 |
| 279 | 258461.1 | 4085789 | 1.29E-10 | 1.87E-09 | 3.31E-08 | 3.31E-08 | 1.84E-08 | 8.65E-08 | 1.96E-11 | 2.85E-10 | 5.16E-09 | 5.16E-09 | 2.84E-09 | 1.35E-08 | 1.07E-11 | 1.54E-10 | 2.30E-09 | 2.30E-09 | 1.14E-09 | 5.89E-09 |
| 280 | 258439.2 | 4085799 | 1.32E-10 | 1.91E-09 | 3.38E-08 | 3.38E-08 | 1.88E-08 | 6.84E-08 | 2.01E-11 | 2.91E-10 | 5.27E-09 | 5.27E-09 | 2.90E-09 | 1.36E-08 | 1.09E-11 | 1.58E-10 | 2.35E-09 | 2.33E-09 | 1.16E-09 | 6.02E-09 |
| 281 | 258417.3 | 4085809 | 1.35E-10 | 1.95E-09 | 3.45E-08 | 3.45E-08 | 1.92E-08 | 9.03E-08 | 2.05E-11 | 2.97E-10 | 5.38E-09 | 5.38E-09 | 2.96E-09 | 1.40E-08 | 1.11E-11 | 1.61E-10 | 2.29E-09 | 2.39E-09 | 1.19E-09 | 6.15E-09 |
| 282 | 259064.2 | 4085100 | 1.48E-10 | 2.14E-09 | 3.78E-08 | 3.78E-08 | 2.11E-08 | 9.90E-08 | 2.25E-11 | 3.26E-10 | 5.91E-09 | 5.91E-09 | 3.25E-09 | 1.54E-08 | 1.22E-11 | 1.77E-10 | 2.63E-09 | 2.63E-09 | 1.30E-09 | 6.74E-09 |
| 263 | 259063.4 | 4085075 | 1.54E-10 | 2.22E-09 | 3.92E-08 | 3.92E-08 | 2.19E-08 | 1.03E-07 | 2.33E-11 | 3.39E-10 | 6.13E-09 | 6.13E-09 | 3.37E-09 | 1.60E-08 | 1.27E-11 | 1.83E-10 | 2.73E-09 | 2.73E-09 | 1.35E-09 | 7.00E-09 |
| 284 | 259062.7 | 4085050 | 1.60E-10 | 2.31E-09 | 4.08E-08 | 4.08E-08 | 2.27E-08 | 1.07E-07 | 2.42E-11 | 3.52E-10 | 6.37E-09 | 6.37E-09 | 3.50E-09 | 1.66E-08 | 1.32E-11 | 1.90E-10 | 2.83E-09 | 2.83E-09 | 1.40E-09 | 7.27E-09 |
| 285 | 259062 | 4085025 | 1.66E-10 | 2.41E-09 | 4.25E-08 | 4.25E-08 | 2.37E-08 | 1.11E-07 | 2.53E-11 | 3.67E-10 | 6.64E-09 | 6.64E-09 | 3.65E-09 | 1.73E-08 | 1.37E-11 | 1.98E-10 | 2.95E-09 | 2.95E-09 | 1.46E-09 | 7.56E-09 |
| 266 | 259061.3 | 4085001 | 1.74E-10 | 2.51E-09 | 4.44E-08 | 4.44E-08 | 2.47E-08 | 1.16E-07 | 2.84E-11 | 3.83E-10 | 6.93E-09 | 6.93E-09 | 3.81E-09 | 1.61E-08 | 1.43E-11 | 2.07E-10 | 3.08E-09 | 3.08E-09 | 1.53E-09 | 7.92E-09 |
| 267 | 259060.6 | 4084976 | 1.82E-10 | 2.63E-09 | 4.65E-08 | 4.65E-08 | 2.59E-08 | 1.22E-07 | 2.76E-11 | 4.01E-10 | 7.25E-09 | 7.25E-09 | 3.99E-09 | 1.69E-08 | 1.50E-11 | 2.17E-10 | 3.23E-09 | 3.23E-09 | 1.60E-09 | 8.26E-09 |
| 268 | 259059.6 | 4084951 | 1.91E-10 | 2.76E-09 | 4.87E-08 | 4.87E-08 | 2.71E-08 | 1.27E-07 | 2.89E-11 | 4.20E-10 | 7.60E-09 | 7.60E-09 | 4.16E-09 | 1.98E-08 | 1.57E-11 | 2.27E-10 | 3.36E-09 | 3.38E-09 | 1.67E-09 | 6.66E-09 |
| 269 | 259059.1 | 4084926 | 2.00E-10 | 2.89E-09 | 5.10E-08 | 5.10E-08 | 2.85E-08 | 1.34E-07 | 3.03E-11 | 4.40E-10 | 7.97E-09 | 7.97E-09 | 4.38E-09 | 2.08E-08 | 1.65E-11 | 2.38E-10 | 3.55E-09 | 3.55E-09 | 1.76E-09 | 9.10E-09 |
| 290 | 259058.4 | 4084902 | 2.10E-10 | 3.03E-09 | 5.35E-08 | 5.35E-08 | 2.98E-08 | 1.40E-07 | 3.16E-11 | 4.62E-10 | 8.36E-09 | 8.36E-09 | 4.59E-09 | 2.16E-08 | 1.73E-11 | 2.50E-10 | 3.72E-09 | 3.72E-09 | 1.84E-09 | 9.54E-09 |
| 291 | 259255.5 | 4085117 | 1.04E-10 | 1.51E-09 | 2.67E-08 | 2.67E-08 | 1.49E-08 | 6.96E-08 | 1.58E-11 | 2.30E-10 | 4.16E-09 | 4.16E-09 | 2.29E-09 | 1.09E-08 | 6.61E-12 | 1.25E-10 | 1.85E-09 | 1.85E-09 | 9.17E-10 | 4.76E-09 |
| 292 | 259246.9 | 4085139 | 1.03E-10 | 1.50E-09 | 2.64E-08 | 2.84E-08 | 1.47E-08 | 6.92E-08 | 1.57E-11 | 2.28E-10 | 4.12E-09 | 4.12E-09 | 2.27E-09 | 1.08E-08 | 8.53E-12 | 1.23E-10 | 1.84E-09 | 1.84E-09 | 9.08E-10 | 4.71E-09 |
| 793 | 259238.3 | 4085162 | 1.02E-10 | 1.48E-09 | 2.61E-08 | 2.61E-08 | 1.46E-08 | 6.83E-08 | 1.55E-11 | 2.25E-10 | 4.08E-09 | 4.08E-09 | 2.24E-09 | 1.06E-08 | 6.43E-12 | 1.22E-10 | 1.81E-09 | 1.81E-09 | 8.98E-10 | 4.65E-09 |
| 294 | 259229.8 | 4085185 | 1.01E-10 | 1.46E-09 | 2.57E-08 | 2.57E-08 | 1.43E-08 | 6.73E-08 | 1.53E-11 | 2.22E-10 | 4.01E-09 | 4.01E-09 | 2.21E-09 | 1.05E-08 | 8.29E-12 | 1.20E-10 | 1.79E-09 | 1.79E-09 | 8.84E-10 | 4.36E-09 |
| 295 | 259221.2 | 4085208 | 9.85E-11 | 1.42E-09 | 2.52E-08 | 2.52E-08 | 1.40E-08 | 6.59E-08 | 1.50E-11 | 2.17E-10 | 3.93E-09 | 3.93E-09 | 2.16E-09 | 1.02E-08 | 8.12E-12 | 1.17E-10 | 1.75E-09 | 1.75E-09 | 8.65E-10 | 4.49E-09 |
| 296 | 259212.6 | 4085231 | 9.65E-11 | 1.40E-09 | 2.46E-08 | 2.48E-08 | 1.37E-08 | 6.45E-08 | 1.46E-11 | 2.13E-10 | 3.85E-09 | 3.85E-09 | 2.12E-09 | 1.00E-08 | 7.95E-12 | 1.15E-10 | 1.71E-09 | 1.71E-09 | 8.47E-10 | 4.39E-09 |
| 797 | 259204 | 4085254 | 9.44E-11 | 1.36E-09 | 2.41E-08 | 2.41E-08 | 1.34E-08 | 6.31E-08 | 1.43E-11 | 2.08E-10 | 3.76E-09 | 3.76E-09 | 2.07E-09 | 9.82E-09 | 7.78E-12 | 1.12E-10 | 1.67E-09 | 1.67E-09 | 8.29E-10 | 4.30E-09 |
| 298 | 259195.4 | 4085276 | 9.22E-11 | 1.33E-09 | 2.35E-08 | 2.35E-08 | 1.31E-08 | 6.16E-08 | 1.40E-11 | 2.03E-10 | 3.68E-09 | 3.68E-09 | 2.02E-09 | 9.59E-09 | 7.60E-12 | 1.10E-10 | 1.64E-09 | 1.64E-09 | 8.10E-10 | 4.20E-09 |
| 299 | 259186.8 | 4085299 | 9.00E-11 | 1.30E-09 | 2.30E-08 | 2.30E-08 | 1.28E-08 | 6.02E-08 | 1.37E-11 | 1.98E-10 | 3.59E-09 | 3.59E-09 | 1.97E-09 | 9.37E-09 | 7.42E-12 | 1.07E-10 | 1.60E-09 | 1.60E-09 | 7.91E-10 | 4.10E-09 |
| 300 | 259178.3 | 4085322 | 8.80E-11 | 1.27E-09 | 2.25E-08 | 2.25E-08 | 1.25E-09 | 5.89E-08 | 1.34E-11 | 1.94E-10 | 3.51E-09 | 3.51E-09 | 1.93E-09 | 9.16E-09 | 7.26E-12 | 1.05E-10 | 1.56E-09 | 1.56E-09 | 7.73E-10 | 4.01E-09 |
| 301 | 259169.7 | 4085345 | 8.61E-11 | 1.25E-09 | 2.20E-08 | 2.20E-08 | 1.25E-08 | 5.76E-08 | 1.31E-11 | 1.90E-10 | 3.44E-09 | 3.44E-09 | 1.89E-09 | 8.96E-09 | 7.10E-12 | 1.03E-10 | 1.53E-09 | 1.53E-09 | 7.57E-10 | 3.92E-09 |
| 302 | 259161.1 | 4085368 | 8.44E-11 | 1.22E-09 | 2.16E-08 | 2.16E-08 | 1.20E-08 | 5.65E-08 | 1.28E-11 | 1.86E-10 | 3.37E-09 | 3.37E-09 | 1.85E-09 | 8.78E-09 | 6.96E-12 | 1.01E-10 | 1.50E-09 | 1.50E-09 | 7.41E-10 | 3.85E-09 |
| 303 | 259152.5 | 4085390 | 6.28E-11 | 1.20E-09 | 2.12E-08 | 2.12E-08 | 1.18E-08 | 5.54E-08 | 1.26E-11 | 1.83E-10 | 3.30E-09 | 3.30E-09 | 1.82E-09 | 8.62E-09 | 6.83E-12 | 9.88E-11 | 1.47E-09 | 1.47E-09 | 7.28E-10 | 3.72E-09 |
| 304 | 259143.9 | 4085413 | 8.14E-11 | 1.18E-09 | 2.08E-08 | 2.08E-08 | 1.16E-09 | 5.44E-08 | 1.24E-11 | 1.79E-10 | 3.25E-09 | 3.25E-09 | 1.78E-09 | 8.47E-09 | 6.71E-12 | 9.70E-11 | 1.44E-09 | 1.44E-09 | 7.15E-10 | 3.71E-09 |
| 305 | 259135.4 | 4085436 | 8.00E-11 | 1.16E-09 | 2.04E-08 | 2.04E-08 | 1.14E-08 | 5.35E-08 | 1.21E-11 | 1.76E-10 | 3.19E-09 | 3.39E-09 | 1.75E-09 | 8.33E-09 | 6.60E-12 | 9.54E-11 | 1.42E-09 | 1.42E-09 | 7.03E-10 | 3.64E-09 |
| 306 | 259126.8 | 4085459 | 7.87E-11 | 1.14E-09 | 2.01E-08 | 2.01E-08 | 1.12E-08 | 5.26E-08 | 1.19E-11 | 1.73E-10 | 3.14E-09 | 3.14E-09 | 1.73E-09 | 8.19E-09 | 6.49E-12 | 9.38E-11 | 1.40E-09 | 1.40E-09 | 6.91E-10 | 3.58E-09 |
| 307 | 259118.2 | 4085482 | 7.74E-11 | 1.12E-09 | 1.98E-08 | 1.98E-08 | 1.10E-08 | 5.18E-08 | 1.17E-11 | 1.71E-10 | 3.09E-09 | 3.09E-09 | 1.70E-09 | 8.05E-09 | 6.38E-12 | 9.25E-11 | 1.37E-09 | 1.37E-09 | 6.80E-10 | 3.53E-09 |
| 308 | 259109.6 | 4085505 | 7.61E-11 | 1.10E-09 | 1.94E-08 | 1.94E-08 | 1.08E-08 | 5.09E-08 | 1.15E-11 | 1.68E-10 | 3.03E-09 | 3.03E-09 | 1.67E-09 | 7.92E-09 | 6.27E-12 | 9.07E-11 | 1.35E-09 | 1.35E-09 | 6.68E-10 | 3.47E-09 |
| 309 | 259101 | 4085527 | 7.48E-11 | 1.08E-09 | 1.91E-08 | 1.91E-08 | 1.06E-08 | 5.00E-08 | 1.13E-11 | 1.65E-10 | 2.98E-09 | 2.98E-09 | 1.64E-09 | 7.76E-09 | 6.16E-12 | 8.91E-11 | 1.33E-09 | 1.33E-09 | 6.57E-10 | 3.41E-09 |
| 310 | 259092.4 | 4085550 | 7.34E-11 | 1.06E-09 | 1.88E-08 | 1.88E-08 | 1.05E-08 | 4.91E-08 | 1.11E-11 | 1.62E-10 | 2.93E-09 | 2.93E-09 | 1.61E-09 | 7.64E-09 | 6.05E-12 | 8.76E-11 | 1.30E-09 | 1.30E-09 | 6.45E-10 | 3.34E-09 |
| 311 | 259083.9 | 4085573 | 7.21E-11 | 1.04E-09 | 1.84E-08 | 1.84E-08 | 1.03E-08 | 4.82E-08 | 1.09E-11 | 1.59E-10 | 2.87E-09 | 2.87E-09 | 1.58E-09 | 7.50E-09 | 5.94E-12 | 8.59E-11 | 1.28E-09 | 1.28E-09 | 6.33E-10 | 3.26E-09 |
| 312 | 259075.3 | 4085596 | 7.07E-11 | 1.02E-09 | 1.81E-08 | 1.81E-08 | 1.01E-08 | 4.73E-08 | 1.07E-11 | 1.56E-10 | 2.82E-09 | 2.82E-09 | 1.55E-09 | 7.35E-09 | 5.83E-12 | 8.43E-11 | 1.25E-09 | 1.25E-09 | 6.21E-10 | 3.22E-09 |
| 313 | 259066.7 | 4085619 | 6.93E-11 | 1.00E-09 | 1.77E-08 | 1.77E-08 | 9.87E-09 | 4.63E-08 | 1.05E-11 | 1.53E-10 | 2.76E-09 | 2.76E-09 | 1.52E-09 | 7.21E-09 | 5.71E-12 | 8.26E-11 | 1.23E-09 | 1.23E-09 | 6.09E-10 | 3.16E-09 |
| 314 | 259058.1 | 4085641 | 6.80E-11 | 9.83E-10 | 1.74E-08 | 1.74E-08 | 9.68E-09 | 4.55E-08 | 1.03E-11 | 1.50E-10 | 2.71E-09 | 2.71E-09 | 1.49E-09 | 7.07E-09 | 5.60E-12 | 8.11E-11 | 1.21E-09 | 1.21E-09 | 5.97E-10 | 3.10E-09 |
| 315 | 259049.5 | 4085664 | 6.67E-11 | 9.65E-10 | 1.70E-08 | 1.70E-08 | 9.50E-09 | 4.46E-08 | 1.01E-11 | 1.47E-10 | 2.66E-09 | 2.66E-09 | 1.46E-09 | 6.94E-09 | 5.50E-12 | 7.96E-11 | 1.18E-09 | 1.18E-09 | 5.86E-10 | 3.04E-09 |
| 316 | 259041 | 4085687 | 6.56E-11 | 9.48E-10 | 1.67E-08 | 1.67E-08 | 9.33E-09 | 4.36E-08 | 9.95E-12 | 1.44E-10 | 2.61E-09 | 2.61E-09 | 1.44E-09 | 6.82E-09 | 5.40E-12 | 7.82E-11 | 1.16E-09 | 1.16E-09 | 5.76E-10 | 2.99E-09 |
| 317 | 259032.4 | 4085710 | 6.45E-11 | 9.32E-10 | 1.65E-08 | 1.65E-08 | 9.18E-09 | 4.31E-08 | 9.78E-12 | 1.42E-10 | 2.57E-09 | 2.57E-09 | 1.41E-09 | 6.71E-09 | 5.31E-12 | 7.69E-11 | 1.14E-09 | 1.14E-09 | 5.66E-10 | 2.94E-09 |
| 318 | 259001.7 | 4085743 | 6.43E-11 | 9.29E-10 | 1.64E-08 | 1.64E-08 | 9.15E-09 | 4.30E-08 | 9.75E-12 | 1.42E-10 | 2.56E-09 | 2.56E-09 | 1.41E-09 | 6.69E-09 | 5.30E-12 | 7.66E-11 | 1.14E-09 | 1.14E-09 | 5.64E-10 | 2.93E-09 |
| 319 | 258979.5 | 4085753 | 6.51E-11 | 9.41E-10 | 1.66E-08 | 1.66E-08 | 9.27E-09 | 4.35E-08 | 9.88E-12 | 1.43E-10 | 2.60E-09 | 2.60E-09 | 1.43E-09 | 6.77E-09 | 5.36E-12 | 7.76E-11 | 1.15E-09 | 1.15E-09 | 5.72E-10 | 2.96E-09 |
| 320 | 258957.4 | 4085763 | 6.60E-11 | 9.54E-10 | 1.68E-08 | 1.68E-08 | 9.29E-09 | 4.41E-08 | 1.00E-11 | 1.45E-10 | 2.63E-09 | 2.63E-09 | 1.45E-09 | 6.86E-09 | 5.44E-12 | 7.86E

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 113 | 258663.6 | 4085087 | 4.87E-10 | 7.04E-09 | 1.24E-07 | 1.24E-07 | 6.93E-08 | 3.23E-07 | 7.38E-11 | 1.07E-09 | 1.94E-08 | 1.94E-08 | 1.07E-08 | 3.06E-08 | 4.01E-11 | 5.80E-10 | 8.63E-09 | 6.63E-09 | 4.27E-09 | 2.22E-08 |
| 116 | 258662.9 | 4085062 | 5.33E-10 | 7.71E-09 | 1.38E-07 | 1.36E-07 | 7.59E-08 | 3.57E-07 | 8.09E-11 | 1.18E-09 | 2.13E-08 | 2.15E-08 | 1.17E-08 | 5.33E-08 | 4.40E-11 | 6.56E-10 | 9.46E-09 | 9.46E-09 | 4.68E-09 | 2.43E-08 |
| 117 | 258662.2 | 4085037 | 5.85E-10 | 8.47E-09 | 1.49E-07 | 1.49E-07 | 8.33E-08 | 5.91E-07 | 8.88E-11 | 1.29E-09 | 2.33E-08 | 2.33E-08 | 1.28E-08 | 6.09E-08 | 4.82E-11 | 6.98E-10 | 1.04E-08 | 1.04E-08 | 5.14E-09 | 2.67E-08 |
| 118 | 258661.4 | 4085012 | 6.42E-10 | 9.28E-09 | 1.64E-07 | 1.64E-07 | 9.14E-08 | 4.29E-07 | 9.74E-11 | 1.41E-09 | 2.56E-08 | 2.56E-08 | 1.41E-08 | 6.68E-08 | 5.29E-11 | 7.85E-10 | 1.14E-08 | 1.14E-08 | 5.64E-09 | 2.92E-08 |
| 119 | 258660.7 | 4084988 | 7.02E-10 | 1.02E-08 | 1.79E-07 | 1.79E-07 | 9.99E-08 | 4.69E-07 | 1.07E-10 | 1.55E-09 | 2.80E-08 | 2.80E-08 | 1.54E-08 | 7.30E-08 | 5.78E-11 | 8.37E-10 | 1.25E-08 | 1.25E-08 | 6.16E-09 | 3.20E-08 |
| 120 | 258660 | 4084963 | 7.64E-10 | 1.10E-08 | 1.95E-07 | 1.95E-07 | 1.09E-07 | 5.11E-07 | 1.16E-10 | 1.68E-09 | 3.04E-08 | 3.04E-08 | 1.67E-08 | 7.94E-08 | 6.29E-11 | 9.10E-10 | 1.35E-08 | 1.35E-08 | 6.71E-09 | 3.48E-08 |
| 121 | 258659.3 | 4084938 | 8.25E-10 | 1.19E-08 | 2.11E-07 | 2.11E-07 | 1.17E-07 | 5.51E-07 | 1.25E-10 | 1.82E-09 | 3.29E-08 | 3.29E-08 | 1.81E-08 | 8.58E-08 | 6.80E-11 | 9.83E-10 | 1.46E-08 | 1.46E-08 | 7.24E-09 | 3.76E-08 |
| 122 | 258658.6 | 4084913 | 8.81E-10 | 1.27E-08 | 2.25E-07 | 2.25E-07 | 1.25E-07 | 5.89E-07 | 1.34E-10 | 1.94E-09 | 3.51E-08 | 3.51E-08 | 1.93E-08 | 9.17E-08 | 7.26E-11 | 1.05E-09 | 1.56E-08 | 1.56E-08 | 7.74E-09 | 4.01E-08 |
| 123 | 258736.1 | 4085130 | 5.02E-10 | 4.56E-09 | 7.71E-08 | 7.71E-08 | 4.30E-08 | 2.02E-07 | 4.58E-11 | 6.65E-10 | 1.20E-08 | 1.20E-08 | 6.61E-09 | 3.14E-08 | 2.49E-11 | 3.60E-10 | 5.35E-09 | 5.35E-09 | 2.65E-09 | 1.37E-08 |
| 124 | 258747.9 | 4085152 | 2.92E-10 | 4.22E-09 | 7.46E-08 | 7.46E-08 | 4.16E-08 | 1.95E-07 | 4.45E-11 | 6.45E-10 | 1.16E-08 | 1.16E-08 | 6.40E-09 | 3.04E-08 | 2.41E-11 | 3.46E-10 | 5.18E-09 | 5.16E-09 | 2.56E-09 | 1.33E-08 |
| 125 | 258759.6 | 4085174 | 2.82E-10 | 4.08E-09 | 7.20E-08 | 7.20E-08 | 4.01E-08 | 1.86E-07 | 4.28E-11 | 6.21E-10 | 1.12E-08 | 1.12E-08 | 6.18E-09 | 2.93E-08 | 2.32E-11 | 3.56E-10 | 5.00E-09 | 5.00E-09 | 2.47E-09 | 1.26E-08 |
| 126 | 258751.4 | 4085196 | 2.72E-10 | 5.93E-09 | 6.94E-08 | 6.94E-08 | 3.87E-08 | 1.82E-07 | 4.12E-11 | 5.98E-10 | 1.08E-08 | 1.08E-08 | 5.95E-09 | 2.82E-08 | 2.24E-11 | 5.24E-10 | 4.82E-09 | 4.82E-09 | 2.38E-09 | 1.24E-08 |
| 127 | 258723.2 | 4085218 | 2.61E-10 | 5.78E-09 | 6.67E-08 | 6.67E-08 | 3.72E-08 | 1.73E-07 | 3.97E-11 | 3.76E-10 | 1.04E-08 | 1.04E-08 | 5.73E-09 | 2.72E-08 | 2.13E-11 | 3.11E-10 | 4.64E-09 | 4.64E-09 | 2.29E-09 | 1.19E-08 |
| 128 | 258715 | 4085239 | 2.51E-10 | 5.63E-09 | 6.42E-08 | 6.42E-08 | 3.58E-08 | 1.68E-07 | 3.81E-11 | 3.54E-10 | 1.00E-08 | 1.00E-08 | 5.51E-09 | 2.61E-08 | 2.07E-11 | 2.99E-10 | 4.46E-09 | 4.46E-09 | 2.21E-09 | 1.14E-08 |
| 129 | 258706.8 | 4085261 | 2.41E-10 | 5.49E-09 | 6.17E-08 | 6.17E-08 | 5.44E-08 | 1.61E-07 | 3.66E-11 | 3.32E-10 | 9.63E-09 | 9.63E-09 | 5.29E-09 | 2.51E-08 | 1.99E-11 | 2.88E-10 | 4.26E-09 | 4.26E-09 | 2.12E-09 | 1.10E-08 |
| 130 | 258698.6 | 4085283 | 2.32E-10 | 5.36E-09 | 5.92E-08 | 5.92E-08 | 5.30E-08 | 1.53E-07 | 3.52E-11 | 3.11E-10 | 9.25E-09 | 9.25E-09 | 5.09E-09 | 2.41E-08 | 1.91E-11 | 2.77E-10 | 4.12E-09 | 4.12E-09 | 2.04E-09 | 1.06E-08 |
| 131 | 236890.4 | 4085305 | 2.23E-10 | 5.22E-09 | 5.69E-08 | 5.69E-08 | 5.17E-08 | 1.49E-07 | 3.38E-11 | 4.91E-10 | 8.88E-09 | 8.88E-09 | 4.88E-09 | 2.32E-08 | 1.84E-11 | 2.65E-10 | 3.95E-09 | 5.95E-09 | 1.96E-09 | 1.01E-08 |
| 132 | 258662.1 | 4085327 | 2.14E-10 | 5.09E-09 | 5.46E-08 | 5.46E-08 | 5.04E-08 | 1.43E-07 | 3.24E-11 | 4.71E-10 | 8.52E-09 | 8.52E-09 | 4.68E-09 | 2.22E-08 | 1.76E-11 | 2.55E-10 | 3.79E-09 | 5.79E-09 | 1.88E-09 | 9.73E-09 |
| 133 | 256875.9 | 4085349 | 2.06E-10 | 2.98E-09 | 5.26E-08 | 5.26E-08 | 2.93E-08 | 1.38E-07 | 3.13E-11 | 4.54E-10 | 8.22E-09 | 8.22E-09 | 4.52E-09 | 2.14E-08 | 1.70E-11 | 2.46E-10 | 5.66E-09 | 5.66E-09 | 1.81E-09 | 9.58E-09 |
| 134 | 258665.7 | 4083371 | 1.98E-10 | 2.87E-09 | 5.07E-08 | 5.07E-08 | 2.83E-08 | 1.33E-07 | 3.01E-11 | 4.37E-10 | 7.91E-09 | 7.91E-09 | 4.35E-09 | 2.06E-08 | 1.64E-11 | 2.37E-10 | 5.52E-09 | 3.52E-09 | 1.74E-09 | 9.04E-09 |
| 135 | 256836.3 | 4085402 | 1.97E-10 | 2.86E-09 | 5.04E-08 | 5.04E-08 | 2.81E-08 | 1.52E-07 | 3.00E-11 | 4.35E-10 | 7.87E-09 | 7.87E-09 | 4.33E-09 | 2.05E-08 | 1.63E-11 | 2.35E-10 | 5.50E-09 | 3.50E-09 | 1.73E-09 | 8.99E-09 |
| 136 | 258615.1 | 4085412 | 2.03E-10 | 2.94E-09 | 5.19E-08 | 5.19E-08 | 2.89E-08 | 1.36E-07 | 3.08E-11 | 4.48E-10 | 8.10E-09 | 8.10E-09 | 4.45E-09 | 2.11E-08 | 1.67E-11 | 2.42E-10 | 5.60E-09 | 3.60E-09 | 1.78E-09 | 9.25E-09 |
| 157 | 258594 | 4085422 | 2.10E-10 | 5.03E-09 | 5.35E-08 | 5.35E-08 | 2.98E-08 | 1.40E-07 | 5.18E-11 | 4.62E-10 | 8.35E-09 | 8.35E-09 | 4.59E-09 | 2.18E-08 | 1.73E-11 | 2.50E-10 | 3.72E-09 | 5.72E-09 | 1.84E-08 | 9.54E-09 |
| 138 | 258572.8 | 4085432 | 2.16E-10 | 3.13E-09 | 5.53E-08 | 5.55E-08 | 5.08E-08 | 1.45E-07 | 5.29E-11 | 4.77E-10 | 8.82E-09 | 8.63E-09 | 4.75E-09 | 2.25E-08 | 1.78E-11 | 2.58E-10 | 3.84E-09 | 3.84E-09 | 1.90E-09 | 9.86E-09 |
| 139 | 258551.6 | 4085441 | 2.24E-10 | 3.24E-09 | 5.72E-08 | 5.72E-08 | 3.19E-08 | 1.50E-07 | 5.40E-11 | 4.93E-10 | 6.93E-09 | 8.93E-09 | 4.91E-09 | 2.33E-08 | 1.84E-11 | 2.67E-10 | 3.97E-09 | 3.97E-09 | 1.97E-09 | 1.02E-08 |
| 140 | 258530.4 | 4085451 | 2.31E-10 | 5.34E-09 | 5.90E-08 | 5.90E-08 | 5.29E-08 | 1.55E-07 | 5.51E-11 | 5.09E-10 | 9.22E-09 | 9.22E-09 | 5.07E-09 | 2.40E-08 | 1.91E-11 | 2.76E-10 | 4.10E-09 | 4.10E-09 | 2.03E-09 | 1.05E-08 |
| 141 | 258509.2 | 4085461 | 2.38E-10 | 3.44E-09 | 6.08E-08 | 6.08E-08 | 5.59E-08 | 1.59E-07 | 5.61E-11 | 3.24E-10 | 9.49E-09 | 9.49E-09 | 5.22E-09 | 2.48E-08 | 1.96E-11 | 2.84E-10 | 4.22E-09 | 4.22E-09 | 2.09E-09 | 1.08E-08 |
| 142 | 258488.1 | 4085471 | 2.44E-10 | 3.54E-09 | 6.24E-08 | 6.24E-08 | 5.48E-08 | 1.63E-07 | 3.71E-11 | 3.39E-10 | 9.73E-09 | 9.75E-09 | 5.36E-09 | 2.54E-08 | 2.01E-11 | 2.91E-10 | 4.34E-09 | 4.34E-09 | 2.15E-09 | 1.11E-08 |
| 145 | 258468.9 | 4085481 | 2.51E-10 | 3.63E-09 | 6.40E-08 | 6.40E-08 | 5.57E-08 | 1.68E-07 | 3.80E-11 | 3.52E-10 | 9.99E-09 | 9.99E-09 | 5.49E-09 | 2.61E-08 | 2.07E-11 | 2.99E-10 | 4.45E-09 | 4.45E-09 | 2.20E-09 | 1.14E-08 |
| 144 | 258445.7 | 4085490 | 2.57E-10 | 5.72E-09 | 6.57E-08 | 6.57E-08 | 5.66E-08 | 1.72E-07 | 3.90E-11 | 5.68E-10 | 1.03E-08 | 1.03E-08 | 5.64E-09 | 2.67E-08 | 2.12E-11 | 5.06E-10 | 4.56E-09 | 4.56E-09 | 2.26E-09 | 1.17E-08 |
| 145 | 258424.5 | 4085500 | 2.64E-10 | 3.82E-09 | 6.74E-08 | 6.74E-08 | 3.76E-08 | 1.76E-07 | 4.01E-11 | 5.81E-10 | 1.05E-08 | 1.05E-08 | 5.79E-09 | 2.75E-08 | 2.16E-11 | 5.15E-10 | 4.68E-09 | 4.68E-09 | 2.52E-09 | 1.20E-08 |
| 146 | 258403.3 | 4085510 | 2.71E-10 | 5.92E-09 | 6.92E-08 | 6.92E-08 | 3.86E-08 | 1.81E-07 | 4.11E-11 | 5.97E-10 | 1.08E-08 | 1.08E-08 | 5.94E-09 | 2.82E-08 | 2.25E-11 | 5.23E-10 | 4.81E-09 | 4.81E-09 | 2.38E-09 | 1.23E-08 |
| 147 | 258764.3 | 4085108 | 3.11E-10 | 4.50E-09 | 7.93E-08 | 7.95E-08 | 4.43E-08 | 2.08E-07 | 4.72E-11 | 6.86E-10 | 1.24E-08 | 1.24E-08 | 6.83E-09 | 5.24E-08 | 2.57E-11 | 3.71E-10 | 5.52E-09 | 5.52E-09 | 2.73E-09 | 1.42E-08 |
| 146 | 258763.6 | 4085084 | 3.33E-10 | 4.82E-09 | 8.52E-08 | 8.52E-08 | 4.75E-08 | 2.23E-07 | 5.06E-11 | 7.35E-10 | 1.33E-08 | 1.33E-08 | 7.31E-09 | 3.47E-08 | 2.75E-11 | 3.98E-10 | 5.92E-09 | 5.92E-09 | 2.93E-09 | 1.32E-08 |
| 149 | 258762.8 | 4085059 | 3.58E-10 | 3.16E-09 | 9.14E-08 | 9.14E-08 | 5.10E-08 | 2.39E-07 | 5.43E-11 | 7.89E-10 | 1.43E-08 | 1.43E-08 | 7.85E-09 | 3.72E-08 | 2.95E-11 | 4.27E-10 | 6.35E-09 | 6.35E-09 | 5.14E-09 | 1.63E-08 |
| 150 | 258762.1 | 4085034 | 3.85E-10 | 3.56E-09 | 9.82E-08 | 9.82E-08 | 5.48E-08 | 2.57E-07 | 5.84E-11 | 8.48E-10 | 1.53E-08 | 1.53E-08 | 8.43E-09 | 4.00E-08 | 5.17E-11 | 4.59E-10 | 6.82E-09 | 6.82E-09 | 5.38E-09 | 1.75E-08 |
| 151 | 258761.4 | 4085009 | 4.14E-10 | 3.98E-09 | 1.06E-07 | 1.06E-07 | 5.69E-08 | 2.77E-07 | 6.28E-11 | 9.11E-10 | 1.65E-08 | 1.65E-08 | 9.07E-09 | 4.30E-08 | 5.41E-11 | 4.95E-10 | 7.34E-09 | 7.34E-09 | 5.63E-09 | 1.88E-08 |
| 152 | 258760.7 | 4084985 | 4.43E-10 | 6.43E-09 | 1.14E-07 | 1.14E-07 | 6.33E-08 | 2.97E-07 | 6.75E-11 | 9.80E-10 | 1.77E-08 | 1.77E-08 | 9.75E-09 | 4.63E-08 | 5.67E-11 | 5.30E-10 | 7.89E-09 | 7.89E-09 | 5.91E-09 | 2.03E-08 |
| 155 | 258760 | 4084960 | 4.76E-10 | 6.91E-09 | 1.22E-07 | 1.27E-07 | 6.81E-08 | 3.20E-07 | 7.25E-11 | 1.05E-09 | 1.91E-08 | 1.91E-08 | 1.05E-08 | 4.97E-08 | 3.94E-11 | 5.70E-10 | 8.48E-09 | 8.48E-09 | 4.20E-09 | 2.16E-08 |
| 154 | 258759.2 | 4084935 | 5.13E-10 | 7.41E-09 | 1.31E-07 | 1.31E-07 | 7.30E-08 | 3.43E-07 | 7.76E-11 | 1.13E-09 | 2.04E-08 | 2.04E-08 | 1.12E-08 | 5.35E-08 | 4.22E-11 | 6.11E-10 | 9.09E-09 | 9.09E-09 | 4.50E-09 | 2.33E-08 |
| 155 | 258758.5 | 4084910 | 5.47E-10 | 7.92E-09 | 1.40E-07 | 1.40E-07 | 7.79E-08 | 5.66E-07 | 8.31E-11 | 1.21E-09 | 2.18E-08 | 2.16E-08 | 1.20E-08 | 5.69E-08 | 4.51E-11 | 6.52E-10 | 9.71E-09 | 9.71E-09 | 4.81E-09 | 2.49E-08 |
| 156 | 258855.9 | 4085126 | 2.27E-10 | 3.26E-09 | 5.80E-08 | 5.80E-08 | 3.23E-08 | 1.52E-07 | 3.45E-11 | 5.00E-10 | 9.05E-09 | 9.05E-09 | 4.98E-09 | 2.36E-08 | 1.87E-11 | 2.71E-10 | 4.03E-09 | 4.03E-09 | 1.99E-09 | 1.03E-08 |
| 157 | 258847.6 | 4085150 | 2.21E-10 | 3.20E-08 | 5.65E-08 | 5.85E-08 | 3.15E-08 | 1.48E-07 | 3.56E-11 | 4.87E-10 | 8.82E-09 | 8.82E-09 | 4.85E-09 | 2.30E-08 | 1.82E-11 | 2.64E-10 | 3.92E-09 | 3.92E-09 | 1.94E-09 | 1.01E-08 |
| 158 | 258839.2 | 4085172 | 2.15E-10 | 3.11E-09 | 5.49E-08 | 5.49E-08 | 5.06E-08 | 1.44E-07 | 3.26E-11 | 4.74E-10 | 8.57E-09 | 8.57E-09 | 4.71E-09 | 2.24E-08 | 1.77E-11 | 2.56E-10 | 3.81E-09 | 3.81E-09 | 1.89E-09 | 9.79E-09 |
| 159 | 258830.9 | 4085194 | 2.09E-10 | 3.02E-09 | 5.33E-08 | 5.33E-08 | 2.97E-08 | 1.39E-07 | 3.16E-11 | 4.59E-10 | 8.31E-09 | 6.31E-09 | 4.57E-09 | 2.17E-08 | 1.72E-11 | 2.49E-10 | 3.70E-09 | 3.70E-09 | 1.82E-09 | 9.50E-09 |
| 160 | 258822.5 | 4085216 | 2.02E-10 | 2.92E-09 | 5.16E-08 | 5.16E-08 | 2.88E-08 | 1.35E-07 | 3.07E-11 | 4.43E-10 | 8.05E-09 | 8.05E-09 | 4.43E-09 | 2.10E-08 | 1.66E-11 | 2.41E-10 | 3.58E-09 | 3.56E-09 | 1.77E-09 | 9.20E-09 |
| 161 | 258814.2 | 4085239 | 1.96E-10 | 2.83E-09 | 4.99E-08 | 4.99E-08 | 2.76E-08 | 1.31E-07 | 2.97E-11 | 4.31E-10 | 7.80E-09 | 7.80E-09 | 4.29E-09 | 2.03E-08 | 1.61E-11 | 2.33E-10 | 3.47E-09 | 3.47E-09 | 1.72E-09 | 8.90E-08 |
| 162 | 258805.6 | 4085261 | 1.89E-10 | 2.74E-09 | 4.82E-08 | 4.88E-08 | 2.69E-08 | 1.27E-07 | 2.87E-11 | 4.17E-10 | 7.55E-09 | 7.35E-09 | 4.15E-09 | 1.97E-08 | 1.56E-11 | 2.26E-10 | 3.36E-09 | 3.56E-09 | 1.66E-09 | 6.62E-08 |
| 163 | 258797.3 | 4085283 | 1.82E-10 | 2.63E-09 | 4.68E-08 | 4.68E-08 | 2.81E-08 | 1.22E-07 | 2.78E-11 | 4.04E-10 | 7.30E-09 | 7.30E-09 | 4.02E-09 | 1.91E-08 | 1.51E-11 | 2.18E-10 | 3.25E-09 | 3.25E-09 | 1.61E-09 | 8.34E-08 |
| 164 | 258789.2 | 4085305 | 1.77E-10 | 2.56E-09 | 4.52E-08 | 4.52E-08 | 2.52E-08 | 1.18E-07 | 2.69E-11 | 3.90E-10 | 7.06E-09 | 7.06E-09 | 5.88E-09 | 1.84E-08 | 1.46E-11 | 2.11E-10 | 3.14E-09 | 3.14E-09 | 1.55E-09 | 6.06E-08 |
| 163 | 258780.6 | 4085327 | 1.70E-10 | 2.46E-09 | 4.33E-08 | 4.35E-08 | 2.42E-08 | 1.14E-07 | 2.58E-11 | 3.73E-10 | 6.79E-09 | 6.79E-09 | 3.75E-09 | 1.77E-08 | 1.40E-11 | 2.03E-10 | 3.02E-09 | 3.02E-09 | 1.49E-09 | 7.75E-08 |
| 166 | 258772.3 | 4085350 | 1.65E-10 | 2.36E-09 | 4.20E-08 | 4.20E-08 | 2.34E-08 | 1.10E-07 | 2.50E-11 | 3.82E-10 | 6.56E-09 | 6.56E-09 | 5.61E-09 | 1.71E-08 | 1.36E-11 | 1.96E-10 | 2.92E-09 | 2.92E-09 | 1.45E-09 | 7.49E-08 |
| 167 | 258764.1 | 4085372 | 1.59E-10 | 2.30E-09 | 4.07E-08 | 4.07E-08 | 2.27E-08 | 1.06E-07 | 2.42E-11 | 3.51E-10 | 6.33E-09 | 6.35E-09 | 5.49E-09 | 1.66E-08 | 1.31E-11 | 1.90E-10 | 2.82E-09 | 2.82E-09 | 1.40E-09 | 7.25E-08 |
| 168 | 258755.8 | 4085394 | 1.34E-10 | 2.23E-09 | 5.94E-08 | 5.94E-08 | 2.20E-08 | 1.03E-07 | 2.34E-11 | 3.40E-10 | 6.15E-09 | 6.15E-09 | 5.38E-09 | 1.60E-08 | 1.27E-11 | 1.84E-10 | 2.74E-09 | 2.74E-09 | 1.55E-09 | 7.03E-08 |
| 169 | 258747.4 | 4085416 | 1.49E-10 | 2.16E-09 | 5.82E-08 | 5.82E-08 | 2.13E-08 | 9.99E-08 | 2.27E-11 | 3.29E-10 | 5.96E-09 | 5.96E-09 | 5.28E-09 | 1.55E-08 | 1.23E-11 | 1.78E-10 | 2.65E-09 | 2.65E-09 | 1.31E-09 | 6.81E-08 |
| 170 | 258739.1 | 4085438 | 1.45E-10 | 2.10E-09 | 5.70E-08 | 5.70E-08 | 2.07E-08 | 9.70E-08 | 2.20E-11 | 3.20E-10 | 5.76E-09 | 5.78E-09 | 3.18E-09 | 1.51E-08 | 1.20E-11 | 1.75E-10 | 2.57E-09 | 2.57E-09 | 1.27E-09 | 6.61E-08 |
| 171 | 258709.2 | 4085470 | 1.44E-10 | 2.08E-09 | 3.68E-08 | 3.68E-08 | 2.05E-08 | 9.63E-08 | 2.19E-11 | 3.17E-10 | 5.74E-09 | 5.74E-09 | 3.16E-09 | 1.50E-08 | 1.19E-11 | 1.72E-10 | 2.56E-09 | 2.56E-09 | 1.27E-09 | 6.56E-08 |
| 172 | 258687.7 | 4085480 | 1.47E-10 | 2.13E-09 | 3.76E-08 | 3.76E-08 | 2.10E-08 | 9.85E-08 | 2.24E-11 | 3.25E-10 | 5.88E-09 | 5.88E-09 | 3.23E-09 | 1.53E-08 | 1.21E-11 | 1.76E-10 | 2.61E-09 | 2.61E-09 | 1.29E-09 | 6.71E-08 |
| 173 | 258666.2 | 4085490 | 1.51E-10 | 2.18E-09 | 5.86E-08 | 5.86E-08 | 2.15E-08 | 1.01E-07 | 2.29E-11 | 3.33E-10 | 6.02E-09 | 6.02E-09 | 3.31E-09 | 1.57E-08 | 1.24E-11 | 1.80E-10 | 2.68E-09 | 2.68E-09 | 1.33E-09 | 6.88E-08 |
| 174 | 258644.7 | 4085500 | 1.55E-10 | 2.24E-09 | 5.96E-08 | 5.96E-08 | 2.21E-08 | 1.04E-07 | 2.35E-11 | 3.42E-10 | 6.18E-09 | 6.18E-09 | 3.40E-09 | 1.61E-08 | 1.28E-11 | 1.85E-10 | 2.73E-09 | 2.75E-09 | 1.56E-09 | 7.06E-08 |
| 175 | 258625.2 | 4085510 | 1.60E-10 | 2.31E-09 | 4.08E-08 | 4.08E-08 | 2.27E-08 | 1.07E-07 | 2.42E-11 | 3.52E-10 | 6.56E-09 | 6.56E-09 | 3.50E-09 | 1.66E-08 | 1.32E-11 | 1.90E-10 | 2.88E-09 | 2.82E-09 | 1.40E-09 | 7.27E-09 |
| 176 | 258601.7 | 4085570 | 1.65E-10 | 2.38E-09 | 4.20E-08 | 4.20E-08 | 2.34E-08 | 1.10E-07 | 2.60E-11 | 3.83E-10 | 6.56E-09 | 6.58E-09 | 3.61E-09 | 1.71E-08 | 1.36E-11 | 1.96E-10 | 2.92E-09 | 2.92E-09 | 1.45E-09 | 7.50E-09 |
| 177 | 258360.2 | 4085530 | 1.70E-10 | 2.45E-09 | 4.33E-08 | 4.33E-08 | 2.42E-08 | 1.13E-07 | 2.58E-11 | 5.74E-10 | 6.77E-09 | 6.77E-09 | 3.72E-09 | 1.77E-08 | 1.40E-11 | 2.02E-10 | 3.01E-09 | 3.01E-09 | 1.49E-09 | 7.73E-09 |
| 178 | 258558.7 | 4085540 | 1.75E-10 | 2.53E-09 | 4.47E-08 | 4.47E-08 | 2.49E-08 | 1.17E-07 | 2.65E-11 | 5.83E-10 | 6.97E-09 | 6.97E-09 | 3.83E-09 | 1.82E-08 | 1.44E-11 | 2.06E-10 | 3.10E-09 | 3.10E-09 | 1.54E-09 | 7.96E-09 |
| 179 | 258557.2 | 4085550 | 1.80E-10 | 2.60E-09 | 4.59E-08 | 4.59E-08 | 2.56E-08 | 1.20E-07 | 2.73E-11 | 3.96E-10 | 7.16E-09 | 7.16E-09 | 5.94E-09 | 1.87E-08 | 1.48E-11 | 2.14E-10 | 3.19E-09 | 3.19E-09 | 1.58E-09 | 8.18E-09 |
| 180 | 258515.7 | 4085560 | 1.84E-10 | 2.65E-09 | 4.69E-08 | 4.69E-08 | 2.61E-08 | 1.23E-07 | 2.79E-11 | 4.04E-10 | 7.32E-09 | 7.32E-09 | 4.02E-09 | 1.91E-08 | 1.51E-11 | 2.19E-10 | 3.26E-09 | 3.26E-09 | 1.61E-09 | 8.36E-09 |
| 181 | 258494.1 | 4085570 | 1.87E-10 | 2.71E-09 | 4.79E-08 | 4.79E-08 | 2.67E-08 | 1.25E-07 | 2.84E-11 | 4.12E-10 | 7.47E-09 | 7.47E-09 | 4.11E-09 | 1.93E-08 | 1.54E-11 | 2.23E-10 | 3.32E-09 | 3.32E-09 | 1.65E-09 | 8.53E-09 |
| 182 | 258472.6 | 4085580 | 1.91E-10 | 2.77E-09 | 4.89E-08 | 4.89E-08 | 2.73E-08 | 1.28E-07 | 2.90E-11 | 4.22E-10 | 7.63E-09 | 7.82E-09 | 4.20E-09 | 1.99E-08 | 1.56E-11 | 2.26E-10 | 3.40E-09 | 3.40E-09 | 1.68E-09 | 6.72E-09 |
| 183 | 258451.1 | 4085590 | 1.96E-10 | 2.83E-09 | 3.00E-08 | 5.00E-08 | 2.79E-08 | 1.31E-07 | 2.97E-11 | 4.31E-10 | 7.80E-09 | 7.80E-09 | 4.29E-09 | 2.04E-08 | 1.61E-11 | 2.33E-10 | 3.47E-09 | 3.47E-09 | 1.72E-09 | 8.91E-09 |
| 184 | 258429.6 | 4085600 | 2.00E-10 | 2.90E-09 | 3.12E-08 | 5.12E-08 | 2.83E-08 | 1.34E-07 | 3.04E-11 | 4.42E-10 | 7.99E-09 | 7.95E-09 | 4.39E-09 | 2.08E-08 | 1.63E-11 | 2.39E-10 | 3.56E-09 | 3.56E-09 | 1.76E-09 | 9.13E-09 |
| 185 | 258408.1 | 4083610 | 2.05E-10 | 2.97E-09 | 5.24E-08 | 3.24E-08 | 2.92E-08 | 1.37E-07 | 3.12E-11 | 4.52E-10 | 6.19E-09 | 6.19E-09 | 4.50E-09 | 2.14E-08 | 1.69E-11 | 2.43E-10 | 3.84E-09 | 3.84E-09 | 1.80E-09 | 9.35E-09 |
| 186 | 258864.3 | 4085106 | 2.33E-10 | 3.37E-09 | 5.94E-08 | 5.94E-08 | 3.31E-08 | 1.56E-07 | 3.53E-11 | 5.13E-10 | 9.28E-09 | 9.26E-09 | 5.10E-09 | 2.42E-08 | 1.92E-11 | 2.77E-10 | 4.13E-09 | 4.13E-09 | 2.04E-09 | 1.06E-08 |
| 167 | 258865.5 | 4085081 | 2.46E-10 | 3.56E-09 | 6.28E-08 | 6.28E-08 | 3.50E-08 | 1.64E-07 | 5.73E-11 | 5.42E-10 | 9.80E-09 | 9.80E-09 | 5.39E-09 | 2.56E-08 | 2.03E-11 | 2.93E-10 | 4.36E-09 | 4.56E-09 | 2.16E-09 | 1.12E-08 |
| 188 | 258862.8 | 4085056 | 2.60E-10 | 3.76E-09 | 6.64E-08 | 6.64E-08 | 3.70E-08 | 1.74E-07 | 5.95E-11 | 5.73E-10 | 1.04E-08 | 1.04E-08 | 5.70E-09 | 2.71E-08 | 2.14E-11 | 3.10E-10 | 4.82E-09 | 4.82E-09 | 2.28E-09 | 1.18E-08 |
| 189 | 258862.1 | 4085031 | 2.76E-10 | 3.99E-09 | 7.04E-08 | 7.04E-08 | 3.93E-08 | 1.84E-07 | 4.16E-11 | 6.08E-10 | 1.10E-08 | 1.10E-08 | 6.04E-09 | 2.87E-08 | 2.27E-11 | 5.29E-10 | 4.89E-09 | 4.89E-09 | 2.42E-09 | 1.26E-08 |
| 190 | 258861.4 | 4085007 | 2.93E-10 | 4.23E-09 | 7.47E-08 | 7.47E-08 | 4.17E-08 | 1.96E-07 | 4.44E-11 | 6.45E-10 | 1.17E-08 | 1.17E-08 | 6.41E-09 | 3.04E-08 | 2.41E-11 | 3.49E-10 | 5.19E-09 | 3.19E-09 | 2.57E-09 | 1.33E-08 |
| 191 | 258860.6 | 4084982 | 5.11E-10 | 4.50E-09 | 7.94E-08 | 7.94E-08 | 4.43E-08 | 2.08E-07 | 4.72E-11 | 6.85E-10 | 1.24E-08 | 1.24E-08 | 6.81E-09 | 3.23E-08 | 2.56E-11 | 3.71E-10 | 3.51E-09 | 3.51E-09 | 2.73E-09 | 1.42E-08 |
| 192 | 258859.9 | 4084957 | 3.30E-10 | 4.78E-09 | 8.44E-08 | 8.44E-08 | 4.71E-08 | 2.21E-07 | 5.01E-11 | 7.28E-10 | 1.32E-08 | 1.32E-08 | 7.24E-09 | 3.44E-08 | 2.72E-11 | 3.94E-10 | 3.86E-09 | 3.86E-09 | 2.90E-09 | 1.50E-08 |
| 193 | 258859.2 | 4084932 | 5.51E-10 | 5.08E-09 | 8.97E-08 | 8.97E-08 | 3.00E-08 | 2.35E-07 | 5.33E-11 | 7.74E-10 | 1.40E-08 | 1.40E-08 | 7.70E-09 | 3.66E-08 | 2.90E-11 | 4.19E-10 | 6.23E-09 | 6.25E-09 | 5.09E-09 | 1.60E-08 |
| 194 | 258858.5 | 4084907 | 3.73E-10 | 5.39E-09 | 9.53E-08 | 9.53E-08 | 5.31E-08 | 2.49E-07 | 5.66E-11 | 6.22E-10 | 1.49E-08 | 1.49E-08 | 8.18E-09 | 3.88E-08 | 3.07E-11 | 4.45E-10 | 6.62E-09 | 6.62E-09 | 3.26E-09 | 1.70E-08 |
| 195 | 258955.8 | 4083125 | 1.79E-10 | 2.59E-09 | 4.57E-08 | 4.57E-08 | 2.55E-08 | 1.20E-07 | 2.71E-11 | 3.94E-10 | 7.13E-09 | 7.13E-09 | 3.92E-09 | 1.86E-08 | 1.47E-11 | 2.13E-10 | 3.17E-09 | 3.17E-09 | 1.57E-09 | 6.15E-09 |
| 196 | 258947.3 | 4083147 | 1.75E-10 | 2.53E-09 | 4.47E-08 | 4.47E-08 | 2.49E-08 | 1.17E-07 | 2.66E-11 | 3.86E-10 | 6.98E-09 | 6.98E-09 | 3.84E-09 | 1.82E-08 | 1.44E-11 | 2.09E-10 | 3.11E-09 | 3.11E-09 | 1.54E-09 | 7.98E-09 |
| 197 | 258938.9 | 4085170 | 1.71E-10 | 2.47E-09 | 4.37E-08 | 4.37E-08 | 2.44E-08 | 1.14E-07 | 2.60E-11 | 3.77E-10 | 6.82E-09 | 6.82E-09 | 5.75E-09 | 1.76E-08 | 1.41E-11 | 2.04E-10 | 5.03E-09 | 5.03E-09 | 1.50E-09 | 7.79E-09 |
| 198 | 258930.5 | 4085192 | 1.67E-10 | 2.41E-09 | 4.26E-08 | 4.26E-08 | 2.37E-08 | 1.11E-07 | 2.53E-11 | 3.67E-10 | 6.85E-09 | 6.85E-09 | 5.65E-09 | 1.73E-08 | 1.37E-11 | 1.99E-10 | 2.96E-09 | 2.96E-09 | 1.46E-09 | 7.59E-09 |
| 199 | 258922.1 | 4085215 | 1.62E-10 | 2.35E-09 | 4.14E-08 | 4.14E-08 | 2.31E-08 | 1.08E-07 | 2.46E-11 | 3.57E-10 | 6.47E-09 | 6.47E-09 | 3.56E-09 | 1.69E-08 | 1.34E-11 | 1.93E-10 | 2.88E-09 | 2.88E-09 | 1.42E-09 | 7.39E-09 |
| 200 | 258915.6 | 4085257 | 1.58E-10 | 2.28E-09 | 4.03E-08 | 4.03E-08 | 2.24E-08 | 1.05E-07 | 2.39E-11 | 5.47E-10 | 6.29E-09 | 6.29E-09 | 3.46E-09 | 1.64E-08 | 1.30E-11 | 1.88E-10 | 2.80E-09 | 2.80E-09 | 1.38E-09 | 7.18E-09 |
| 201 | 258905.2 | 4085260 | 1.55E-10 | 2.22E-09 | 5.91E-08 | 3.91E-08 | 2.18E-08 | 1.03E-07 | 2.53E-11 | 5.38E-10 | 6.11E-09 | 6.11E-09 | 3.56E-09 | 1.59E-08 | 1.26E-11 | 1.83E-10 | 2.72E-09 | 2.72E-09 | 1.35E-09 | 6.98E-09 |
| 202 | 258896.8 | 4085283 | 1.49E-10 | 2.15E-09 | 5.79E-08 | 3.79E-08 | 2.11E-08 | 9.93E-08 | 2.23E-11 | 3.27E-10 | 5.92E-09 | 5.92E-09 | 3.26E-09 | 1.53E-08 | 1.22E-11 

| | | | UnMitigated | | 11 | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 7 | 258389.31 | 4085119.84 | | | 6.05E-08 |
| | | | Yr 1 | Yr 2 | Yr 3 | Yr 4 | Yr 5 | Total |
| 1 | 258389.3 | 4085119 | 3.09E-09 | 4.46E-08 | 7.83E-07 | 7.88E-07 | 4.39E-07 | 2.06E-06 |
| 2 | 258388.7 | 4085095 | 4.92E-09 | 7.11E-08 | 1.26E-08 | 1.26E-08 | 7.00E-07 | 3.29E-06 |
| 3 | 258388 | 4085070 | 6.82E-09 | 9.86E-08 | 1.74E-06 | 1.74E-08 | 9.71E-07 | 4.56E-06 |
| 4 | 258387.3 | 4085045 | 8.02E-09 | 1.16E-07 | 2.05E-06 | 2.05E-06 | 1.14E-06 | 5.36E-06 |
| 5 | 258386.6 | 4085020 | 8.71E-09 | 1.26E-07 | 2.22E-08 | 2.22E-06 | 1.24E-06 | 5.82E-08 |
| 6 | 258385.8 | 4084996 | 9.04E-09 | 1.31E-07 | 2.31E-08 | 2.31E-06 | 1.29E-06 | 6.05E-08 |
| 7 | 258385.1 | 4084971 | 9.04E-09 | 1.31E-07 | 2.31E-06 | 2.31E-06 | 1.29E-08 | 6.05E-06 |
| 8 | 258384.4 | 4084946 | 8.67E-09 | 1.25E-07 | 2.21E-08 | 2.21E-06 | 1.23E-08 | 5.80E-08 |
| 9 | 258385.7 | 4084921 | 7.48E-09 | 1.08E-07 | 1.91E-06 | 1.91E-06 | 1.06E-08 | 5.00E-06 |
| 10 | 258407.8 | 4085136 | 1.90E-09 | 2.75E-08 | 4.85E-07 | 4.85E-07 | 2.70E-07 | 1.27E-06 |
| 11 | 258383.9 | 4085162 | 1.83E-09 | 2.65E-08 | 4.68E-07 | 4.68E-07 | 2.61E-07 | 1.23E-06 |
| 12 | 258413.7 | 4085094 | 3.03E-09 | 4.38E-08 | 7.73E-07 | 7.73E-07 | 4.31E-07 | 2.02E-06 |
| 13 | 258413 | 4085069 | 4.06E-09 | 5.88E-08 | 1.04E-06 | 1.04E-06 | 5.79E-07 | 2.72E-06 |
| 14 | 258412.3 | 4085044 | 4.95E-09 | 7.16E-08 | 1.26E-06 | 1.26E-08 | 7.05E-07 | 3.31E-06 |
| 15 | 258411.6 | 4085020 | 5.58E-09 | 8.07E-08 | 1.42E-06 | 1.42E-06 | 7.94E-07 | 3.73E-08 |
| 16 | 258410.8 | 4084995 | 5.96E-09 | 8.61E-08 | 1.52E-08 | 1.52E-08 | 8.48E-07 | 3.98E-06 |
| 17 | 258410.1 | 4084970 | 6.10E-09 | 8.82E-08 | 1.56E-08 | 1.56E-06 | 8.69E-07 | 4.08E-08 |
| 18 | 258409.4 | 4084945 | 5.98E-09 | 8.65E-08 | 1.53E-06 | 1.53E-06 | 8.51E-07 | 4.00E-06 |
| 19 | 258408.7 | 4084921 | 5.55E-09 | 6.02E-08 | 1.42E-06 | 1.42E-06 | 7.90E-07 | 3.71E-06 |
| 20 | 258432.8 | 4085136 | 1.50E-09 | 2.16E-08 | 3.82E-07 | 3.82E-07 | 2.13E-07 | 1.00E-06 |
| 21 | 258402.2 | 4085179 | 1.32E-09 | 1.91E-08 | 3.37E-07 | 3.37E-07 | 1.88E-07 | 8.81E-07 |
| 22 | 258438.7 | 4085093 | 2.15E-09 | 3.11E-08 | 5.46E-07 | 5.48E-07 | 3.06E-07 | 1.44E-08 |
| 23 | 258438 | 4085068 | 2.76E-09 | 3.99E-08 | 7.04E-07 | 7.04E-07 | 3.93E-07 | 1.84E-08 |
| 24 | 258437.3 | 4085044 | 3.37E-09 | 4.87E-08 | 8.60E-07 | 8.60E-07 | 4.79E-07 | 2.25E-08 |
| 25 | 258436.5 | 4085019 | 3.87E-09 | 5.60E-08 | 9.89E-07 | 9.89E-07 | 5.51E-07 | 2.59E-08 |
| 26 | 258435.8 | 4084994 | 4.23E-09 | 6.12E-08 | 1.08E-08 | 1.08E-06 | 6.03E-07 | 2.63E-08 |
| 27 | 258435.1 | 4084969 | 4.43E-09 | 6.41E-08 | 1.13E-08 | 1.13E-08 | 6.31E-07 | 2.96E-08 |
| 28 | 258434.4 | 4084945 | 4.45E-09 | 6.44E-08 | 1.14E-08 | 1.14E-08 | 6.34E-07 | 2.98E-08 |
| 29 | 258433.7 | 4084920 | 4.30E-09 | 6.23E-08 | 1.10E-08 | 1.10E-06 | 6.13E-07 | 2.88E-08 |
| 30 | 258457.7 | 4085135 | 1.22E-09 | 1.77E-08 | 3.12E-07 | 3.12E-07 | 1.74E-07 | 6.16E-07 |
| 31 | 258444.4 | 4085170 | 1.03E-09 | 1.49E-08 | 2.64E-07 | 2.64E-07 | 1.47E-07 | 6.90E-07 |
| 32 | 258420.5 | 4085196 | 1.01E-09 | 1.46E-08 | 2.39E-07 | 2.59E-07 | 1.44E-07 | 6.77E-07 |
| 33 | 258386.1 | 4085212 | 1.14E-09 | 1.65E-08 | 2.91E-07 | 2.91E-07 | 1.62E-07 | 7.61E-07 |
| 34 | 258463.7 | 4085092 | 1.65E-09 | 2.58E-08 | 4.20E-07 | 4.20E-07 | 2.34E-07 | 1.10E-08 |
| 35 | 258463 | 4085068 | 2.04E-09 | 2.94E-08 | 5.20E-07 | 5.20E-07 | 2.90E-07 | 1.36E-08 |
| 36 | 258462.3 | 4085043 | 2.46E-09 | 3.55E-08 | 6.27E-07 | 6.27E-07 | 3.50E-07 | 1.64E-08 |
| 37 | 258461.5 | 4085018 | 2.84E-09 | 4.11E-08 | 7.26E-07 | 7.26E-07 | 4.05E-07 | 1.90E-06 |
| 38 | 258460.8 | 4084993 | 3.15E-09 | 4.36E-08 | 8.06E-07 | 6.06E-07 | 4.49E-07 | 2.11E-06 |
| 39 | 258460.1 | 4084969 | 3.36E-09 | 4.86E-08 | 8.59E-07 | 8.39E-07 | 4.79E-07 | 2.25E-06 |
| 40 | 258459.4 | 4084944 | 3.45E-09 | 4.99E-08 | 8.82E-07 | 8.82E-07 | 4.92E-07 | 2.31E-06 |
| 41 | 258458.6 | 4084919 | 3.41E-09 | 4.93E-08 | 8.71E-07 | 8.71E-07 | 4.86E-07 | 2.28E-08 |
| 42 | 258506.4 | 4085137 | 8.64E-10 | 1.25E-08 | 2.21E-07 | 2.21E-07 | 1.23E-07 | 5.76E-07 |
| 43 | 258498.4 | 4085158 | 7.98E-10 | 1.16E-08 | 2.04E-07 | 2.04E-07 | 1.14E-07 | 5.34E-07 |
| 44 | 258490.4 | 4085180 | 7.38E-10 | 1.07E-08 | 1.88E-07 | 1.88E-07 | 1.05E-07 | 4.93E-07 |
| 45 | 258482.4 | 4085201 | 6.84E-10 | 9.90E-09 | 1.75E-07 | 1.75E-07 | 9.74E-08 | 4.58E-07 |
| 46 | 258453.7 | 4085232 | 6.74E-10 | 9.75E-09 | 1.72E-07 | 1.72E-07 | 9.60E-06 | 4.51E-07 |
| 47 | 258433.1 | 4085241 | 7.13E-10 | 1.03E-08 | 1.82E-07 | 1.82E-07 | 1.02E-07 | 4.77E-07 |
| 48 | 258412.4 | 4085251 | 7.54E-10 | 1.09E-08 | 1.92E-07 | 1.92E-07 | 1.07E-07 | 5.04E-07 |
| 49 | 258391.8 | 4085260 | 7.94E-10 | 1.15E-08 | 2.03E-07 | 2.03E-07 | 1.13E-07 | 5.31E-07 |
| 50 | 258514.4 | 4085116 | 9.34E-10 | 1.35E-08 | 2.38E-07 | 2.38E-07 | 1.33E-07 | 6.24E-07 |
| 51 | 258513.7 | 4085091 | 1.09E-09 | 1.58E-08 | 2.79E-07 | 2.79E-07 | 1.56E-07 | 7.31E-07 |
| 52 | 258513 | 4085066 | 1.28E-09 | 1.86E-08 | 3.28E-07 | 3.28E-07 | 1.83E-07 | 8.39E-07 |
| 53 | 258512.2 | 4085041 | 1.50E-09 | 2.17E-08 | 3.83E-07 | 3.83E-07 | 2.14E-07 | 1.00E-06 |
| 54 | 258511.3 | 4085017 | 1.72E-09 | 2.49E-08 | 4.40E-07 | 4.40E-07 | 2.45E-07 | 1.15E-08 |
| 55 | 258510.8 | 4084992 | 1.93E-09 | 2.79E-08 | 4.93E-07 | 4.93E-07 | 2.75E-07 | 1.29E-08 |
| 56 | 258510.1 | 4084967 | 2.10E-09 | 3.04E-08 | 5.36E-07 | 5.36E-07 | 2.99E-07 | 1.40E-06 |
| 57 | 258509.3 | 4084942 | 2.22E-09 | 3.21E-08 | 5.68E-07 | 5.68E-07 | 3.16E-07 | 1.49E-06 |
| 58 | 258503.6 | 4084918 | 2.28E-09 | 3.30E-08 | 5.83E-07 | 5.83E-07 | 3.25E-07 | 1.53E-06 |
| 59 | 258556.8 | 4085135 | 6.62E-10 | 9.37E-09 | 1.69E-07 | 1.69E-07 | 9.42E-08 | 4.43E-07 |
| 60 | 258541.3 | 4085175 | 5.86E-10 | 8.47E-09 | 1.50E-07 | 1.50E-07 | 8.34E-08 | 3.92E-07 |
| 61 | 258526.2 | 4085216 | 5.18E-10 | 7.50E-09 | 1.32E-07 | 1.32E-07 | 7.38E-08 | 3.47E-07 |
| 62 | 258491.3 | 4085265 | 4.83E-10 | 6.99E-09 | 1.23E-07 | 1.23E-07 | 6.88E-08 | 3.23E-07 |
| 63 | 258452 | 4085264 | 5.29E-10 | 7.66E-09 | 1.36E-07 | 1.35E-07 | 7.54E-08 | 3.54E-07 |
| 64 | 258412.6 | 4085302 | 5.76E-10 | 8.34E-09 | 1.47E-07 | 1.47E-07 | 8.21E-08 | 3.85E-07 |
| 65 | 258563.7 | 4085090 | 7.96E-10 | 1.15E-08 | 2.03E-07 | 2.03E-07 | 1.13E-07 | 5.32E-07 |
| 68 | 258562.9 | 4085065 | 9.05E-10 | 1.31E-08 | 2.31E-07 | 2.31E-07 | 1.29E-07 | 6.05E-07 |
| 67 | 258562.2 | 4085040 | 1.03E-09 | 1.49E-08 | 2.63E-07 | 2.63E-07 | 1.46E-07 | 6.88E-07 |
| 68 | 258561.5 | 4085015 | 1.16E-09 | 1.68E-08 | 2.97E-07 | 2.97E-07 | 1.65E-07 | 7.77E-07 |
| 69 | 258560.8 | 4084990 | 1.29E-09 | 1.87E-08 | 3.31E-07 | 3.31E-07 | 1.84E-07 | 8.66E-07 |
| 20 | 258560 | 4084966 | 1.42E-09 | 2.05E-08 | 3.62E-07 | 3.62E-07 | 2.02E-07 | 9.49E-07 |
| 71 | 258559.3 | 4084941 | 1.52E-09 | 2.20E-08 | 3.89E-07 | 3.89E-07 | 2.17E-07 | 1.02E-06 |
| 72 | 258558.6 | 4084916 | 1.60E-09 | 2.32E-08 | 4.09E-07 | 4.09E-07 | 2.28E-07 | 1.07E-06 |
| 73 | 258606 | 4085135 | 5.22E-10 | 7.56E-09 | 1.33E-07 | 1.33E-07 | 7.44E-08 | 3.49E-07 |
| 74 | 258597.7 | 4085157 | 4.95E-10 | 7.16E-09 | 1.26E-07 | 1.26E-07 | 7.05E-08 | 3.31E-07 |
| 75 | 258589.3 | 4085179 | 4.68E-10 | 6.76E-09 | 1.19E-07 | 1.19E-07 | 6.66E-08 | 3.13E-07 |
| 76 | 258581 | 4085202 | 4.41E-10 | 6.38E-09 | 1.13E-07 | 1.13E-07 | 6.28E-08 | 2.95E-07 |
| 72 | 258572.6 | 4085224 | 4.16E-10 | 6.02E-09 | 1.06E-07 | 1.06E-07 | 5.93E-08 | 2.78E-07 |
| 78 | 258564.3 | 4085246 | 3.93E-10 | 5.69E-09 | 1.00E-07 | 1.00E-07 | 5.60E-08 | 2.63E-07 |
| 79 | 258556 | 4085268 | 3.77E-10 | 5.39E-09 | 9.51E-08 | 9.51E-08 | 5.30E-08 | 2.49E-07 |
| 80 | 258526.1 | 4085300 | 3.68E-10 | 5.33E-09 | 9.41E-08 | 9.41E-08 | 5.24E-08 | 2.46E-07 |
| 81 | 258504.6 | 4085310 | 3.65E-10 | 5.56E-09 | 9.82E-08 | 9.82E-08 | 5.48E-08 | 2.57E-07 |
| 82 | 258483.1 | 4085320 | 4.02E-10 | 5.82E-09 | 1.03E-07 | 1.03E-07 | 5.73E-08 | 2.69E-07 |
| 83 | 258461.6 | 4085330 | 4.20E-10 | 6.07E-09 | 1.07E-07 | 1.07E-07 | 5.98E-08 | 2.81E-07 |
| 84 | 258440.1 | 4085340 | 4.37E-10 | 6.32E-09 | 1.12E-07 | 1.12E-07 | 6.22E-08 | 2.92E-07 |
| 85 | 258418.5 | 4085350 | 4.54E-10 | 6.56E-09 | 1.16E-07 | 1.16E-07 | 6.46E-08 | 3.03E-07 |
| 86 | 258397 | 4085360 | 4.71E-10 | 6.81E-09 | 1.20E-07 | 1.20E-07 | 6.71E-08 | 3.15E-07 |
| 87 | 258614.4 | 4085113 | 5.50E-10 | 7.96E-09 | 1.41E-07 | 1.41E-07 | 7.83E-08 | 3.68E-07 |
| 88 | 258613.6 | 4085088 | 6.11E-10 | 8.84E-09 | 1.56E-07 | 1.56E-07 | 8.70E-08 | 4.08E-07 |
| 89 | 258612.9 | 4085063 | 6.80E-10 | 9.84E-09 | 1.74E-07 | 1.74E-07 | 9.68E-08 | 4.55E-07 |
| 90 | 258612.2 | 4085039 | 7.58E-10 | 1.10E-08 | 1.93E-07 | 1.93E-07 | 1.08E-07 | 5.07E-07 |
| 91 | 258611.3 | 4085014 | 8.42E-10 | 1.22E-08 | 2.15E-07 | 2.15E-07 | 1.20E-07 | 5.63E-07 |
| 92 | 258610.7 | 4084989 | 9.30E-10 | 1.34E-08 | 2.37E-07 | 2.37E-07 | 1.32E-07 | 6.22E-07 |
| 93 | 258610 | 4084964 | 1.02E-09 | 1.47E-08 | 2.60E-07 | 2.60E-07 | 1.45E-07 | 6.80E-07 |
| 94 | 258609.3 | 4084940 | 1.10E-09 | 1.39E-06 | 2.81E-07 | 2.81E-07 | 1.56E-07 | 7.34E-07 |
| 95 | 258608.6 | 4084915 | 1.17E-09 | 1.69E-08 | 2.98E-07 | 2.98E-07 | 1.66E-07 | 7.81E-07 |
| 96 | 258656.3 | 4085133 | 4.27E-10 | 6.18E-09 | 1.09E-07 | 1.09E-07 | 6.08E-08 | 2.85E-07 |
| 97 | 258648.3 | 4065154 | 4.09E-10 | 5.91E-09 | 1.04E-07 | 1.04E-07 | 5.82E-08 | 2.73E-07 |
| 98 | 258640.3 | 4085175 | 3.90E-10 | 5.65E-09 | 9.97E-08 | 9.97E-08 | 5.56E-06 | 2.61E-07 |
| 99 | 258632.3 | 4085197 | 3.72E-10 | 5.38E-09 | 9.31E-06 | 9.31E-08 | 5.30E-08 | 2.49E-07 |
| 100 | 258624.3 | 4085218 | 3.35E-10 | 5.13E-09 | 9.06E-08 | 9.06E-08 | 5.05E-08 | 2.37E-07 |
| 101 | 258616.3 | 4085239 | 3.38E-10 | 4.88E-09 | 8.83E-08 | 8.63E-08 | 4.81E-08 | 2.26E-07 |
| 102 | 258608.3 | 4085260 | 3.22E-10 | 4.65E-09 | 8.22E-08 | 8.22E-08 | 4.58E-08 | 2.15E-07 |
| 103 | 258600.3 | 4085282 | 3.07E-10 | 4.44E-09 | 7.84E-08 | 7.84E-08 | 4.37E-08 | 2.05E-07 |
| 104 | 258592.3 | 4085303 | 2.93E-10 | 4.24E-09 | 7.49E-08 | 7.49E-08 | 4.18E-08 | 1.96E-07 |
| 105 | 258563.6 | 4085334 | 2.91E-10 | 4.20E-09 | 7.42E-08 | 7.42E-08 | 4.14E-08 | 1.94E-07 |
| 106 | 258542.9 | 4085343 | 3.01E-10 | 4.36E-09 | 7.69E-08 | 7.89E-08 | 4.29E-08 | 2.01E-07 |
| 107 | 258522.3 | 4085353 | 3.13E-10 | 4.33E-09 | 7.99E-08 | 7.99E-08 | 4.46E-06 | 2.09E-07 |
| 108 | 258501.6 | 4085363 | 3.25E-10 | 4.70E-09 | 8.30E-08 | 8.30E-08 | 4.63E-08 | 2.17E-07 |
| 109 | 258481 | 4085372 | 3.37E-10 | 4.88E-09 | 6.61E-08 | 8.61E-08 | 4.80E-08 | 2.25E-07 |
| 110 | 258460.3 | 4085382 | 3.49E-10 | 5.04E-09 | 6.90E-08 | 8.90E-08 | 4.96E-08 | 2.33E-07 |
| 111 | 258439.7 | 4085391 | 3.60E-10 | 5.20E-09 | 9.19E-08 | 9.19E-08 | 5.12E-08 | 2.41E-07 |
| 112 | 258419 | 4085401 | 3.71E-10 | 5.37E-09 | 9.48E-08 | 9.48E-08 | 5.29E-08 | 2.48E-07 |
| 113 | 258398.4 | 4085410 | 3.83E-10 | 5.55E-09 | 9.79E-08 | 9.79E-08 | 5.48E-08 | 2.36E-07 |
| 114 | 258664.3 | 4085111 | 4.45E-10 | 6.44E-09 | 1.14E-07 | 1.14E-07 | 6.34E-08 | 2.98E-07 |

| | | | 77L3 | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 9.41E-07 |
| | | | Yr 1 | Yr 2 | Yr 3 | Yr 4 | Yr 5 | Total |
| 1 | 258389.3 | 4085119 | 4.68E-10 | 6.80E-09 | 1.23E-07 | 1.23E-07 | 6.77E-08 | 3.21E-07 |
| 2 | 258388.7 | 4085095 | 7.46E-10 | 1.08E-08 | 1.96E-07 | 1.96E-07 | 1.08E-07 | 5.12E-07 |
| 3 | 258388 | 4085070 | 1.03E-09 | 1.50E-08 | 2.72E-07 | 2.72E-07 | 1.49E-07 | 7.09E-07 |
| 4 | 258387.3 | 4085045 | 1.22E-09 | 1.77E-08 | 3.20E-07 | 3.20E-07 | 1.76E-07 | 8.34E-07 |
| 5 | 258386.6 | 4085020 | 1.32E-09 | 1.92E-08 | 3.47E-07 | 3.47E-07 | 1.91E-07 | 9.06E-07 |
| 6 | 258385.8 | 4084996 | 1.37E-09 | 1.99E-08 | 3.61E-07 | 3.61E-07 | 1.98E-07 | 9.41E-07 |
| 7 | 258385.1 | 4084971 | 1.37E-09 | 1.99E-08 | 3.61E-07 | 3.61E-07 | 1.98E-07 | 9.41E-07 |
| 8 | 258384.4 | 4084946 | 1.32E-09 | 1.91E-08 | 3.46E-07 | 3.46E-07 | 1.90E-07 | 9.02E-07 |
| 9 | 258385.7 | 4084921 | 1.13E-09 | 1.65E-08 | 2.98E-07 | 2.98E-07 | 1.64E-07 | 7.78E-07 |
| 10 | 258407.8 | 4085136 | 2.86E-10 | 4.18E-09 | 7.57E-08 | 7.57E-08 | 4.16E-08 | 1.98E-07 |
| 11 | 258383.9 | 4085162 | 2.78E-10 | 4.04E-09 | 7.31E-08 | 7.31E-08 | 4.02E-08 | 1.91E-07 |
| 12 | 258413.7 | 4085094 | 4.59E-10 | 6.67E-09 | 1.21E-07 | 1.21E-07 | 6.64E-08 | 3.15E-07 |
| 13 | 258413 | 4085069 | 6.17E-10 | 8.96E-09 | 1.62E-07 | 1.62E-07 | 8.91E-08 | 4.23E-07 |
| 14 | 258412.3 | 4085044 | 7.51E-10 | 1.09E-08 | 1.97E-07 | 1.97E-07 | 1.09E-07 | 5.15E-07 |
| 15 | 258411.6 | 4085020 | 8.46E-10 | 1.23E-08 | 2.22E-07 | 2.22E-07 | 1.22E-07 | 5.80E-07 |
| 16 | 258410.8 | 4084995 | 9.04E-10 | 1.31E-08 | 2.37E-07 | 2.37E-07 | 1.31E-07 | 6.20E-07 |
| 17 | 258410.1 | 4084970 | 9.26E-10 | 1.34E-08 | 2.43E-07 | 2.43E-07 | 1.34E-07 | 6.35E-07 |
| 18 | 258409.4 | 4084945 | 9.07E-10 | 1.32E-08 | 2.38E-07 | 2.38E-07 | 1.31E-07 | 6.22E-07 |
| 19 | 258408.7 | 4084921 | 8.42E-10 | 1.22E-08 | 2.21E-07 | 2.21E-07 | 1.22E-07 | 5.77E-07 |
| 20 | 258432.8 | 4085136 | 2.27E-10 | 3.29E-09 | 5.96E-08 | 5.96E-08 | 3.28E-08 | 1.56E-07 |
| 21 | 258402.2 | 4085179 | 2.00E-10 | 2.90E-09 | 5.25E-08 | 5.25E-08 | 2.89E-08 | 1.37E-07 |
| 22 | 258438.7 | 4085093 | 3.26E-10 | 4.73E-09 | 8.56E-08 | 8.56E-08 | 4.71E-08 | 2.23E-07 |
| 23 | 258438 | 4085068 | 4.19E-10 | 6.08E-09 | 1.10E-07 | 1.10E-07 | 6.05E-08 | 2.87E-07 |
| 24 | 258437.3 | 4085044 | 5.11E-10 | 7.42E-09 | 1.34E-07 | 1.34E-07 | 7.38E-08 | 3.50E-07 |
| 25 | 258436.5 | 4085019 | 5.88E-10 | 8.53E-09 | 1.54E-07 | 1.54E-07 | 8.49E-08 | 4.03E-07 |
| 26 | 258435.8 | 4084994 | 6.42E-10 | 9.32E-09 | 1.69E-07 | 1.69E-07 | 9.28E-08 | 4.40E-07 |
| 27 | 258435.1 | 4084969 | 6.77E-10 | 9.76E-09 | 1.77E-07 | 1.77E-07 | 9.71E-08 | 4.61E-07 |
| 28 | 258434.4 | 4084945 | 6.76E-10 | 9.81E-09 | 1.78E-07 | 1.78E-07 | 9.76E-08 | 4.63E-07 |
| 29 | 258433.7 | 4084920 | 6.53E-10 | 9.48E-09 | 1.72E-07 | 1.72E-07 | 9.44E-08 | 4.48E-07 |
| 30 | 258457.7 | 4085135 | 1.85E-10 | 2.69E-09 | 4.87E-08 | 4.87E-08 | 2.68E-08 | 1.27E-07 |
| 31 | 258444.4 | 4085170 | 1.57E-10 | 2.27E-09 | 4.12E-08 | 4.12E-08 | 2.26E-08 | 1.07E-07 |
| 32 | 258420.5 | 4085196 | 1.54E-10 | 2.23E-09 | 4.04E-08 | 4.04E-08 | 2.22E-08 | 1.05E-07 |
| 33 | 258386.1 | 4085212 | 1.73E-10 | 2.51E-09 | 4.54E-08 | 4.54E-08 | 2.49E-08 | 1.18E-07 |
| 34 | 258463.7 | 4085092 | 2.50E-10 | 3.83E-09 | 6.56E-08 | 6.56E-08 | 3.61E-08 | 1.71E-07 |
| 35 | 258463 | 4085068 | 3.09E-10 | 4.49E-09 | 8.12E-08 | 6.12E-08 | 4.48E-08 | 2.12E-07 |
| 36 | 258462.3 | 4085043 | 3.73E-10 | 5.41E-09 | 9.79E-08 | 9.79E-08 | 5.36E-08 | 2.55E-07 |
| 37 | 258461.5 | 4085018 | 4.32E-10 | 6.26E-09 | 1.13E-07 | 1.13E-07 | 6.23E-08 | 2.96E-07 |
| 38 | 258460.8 | 4084993 | 4.79E-10 | 6.95E-09 | 1.26E-07 | 1.26E-07 | 6.92E-08 | 3.28E-07 |
| 39 | 258460.1 | 4084969 | 5.10E-10 | 7.41E-09 | 1.34E-07 | 1.34E-07 | 7.37E-08 | 3.50E-07 |
| 40 | 258459.4 | 4084944 | 5.24E-10 | 7.61E-09 | 1.38E-07 | 1.38E-07 | 7.57E-08 | 3.59E-07 |
| 41 | 258458.6 | 4084919 | 5.18E-10 | 7.31E-09 | 1.56E-07 | 1.56E-07 | 7.48E-08 | 3.55E-07 |
| 42 | 258506.4 | 4085137 | 1.31E-10 | 1.90E-09 | 3.44E-08 | 3.44E-08 | 1.89E-08 | 8.99E-08 |
| 43 | 258498.4 | 4085158 | 1.21E-10 | 1.76E-09 | 3.18E-08 | 3.18E-08 | 1.75E-08 | 8.30E-08 |
| 44 | 258490.4 | 4085180 | 1.12E-10 | 1.83E-09 | 2.94E-08 | 2.94E-08 | 1.62E-08 | 7.68E-08 |
| 45 | 258482.4 | 4085201 | 1.04E-10 | 1.51E-09 | 2.73E-08 | 2.73E-08 | 1.50E-08 | 7.12E-06 |
| 46 | 258453.7 | 4085232 | 1.02E-10 | 1.49E-09 | 2.69E-08 | 2.69E-08 | 1.48E-08 | 7.01E-08 |
| 47 | 258433.1 | 4085241 | 1.08E-10 | 1.57E-09 | 2.85E-08 | 2.85E-08 | 1.56E-08 | 7.42E-06 |
| 48 | 258412.4 | 4085251 | 1.14E-10 | 1.66E-09 | 3.01E-08 | 3.01E-08 | 1.65E-08 | 7.84E-08 |
| 49 | 258391.8 | 4085260 | 1.21E-10 | 1.75E-09 | 3.17E-08 | 3.17E-08 | 1.74E-08 | 6.26E-08 |
| 50 | 258514.4 | 4085116 | 1.42E-10 | 2.06E-09 | 3.72E-08 | 3.72E-08 | 2.05E-08 | 9.71E-08 |
| 51 | 258513.7 | 4085091 | 1.66E-10 | 2.41E-09 | 4.36E-08 | 4.36E-08 | 2.40E-08 | 1.14E-07 |
| 52 | 258513 | 4085066 | 1.95E-10 | 2.83E-09 | 5.12E-08 | 5.12E-08 | 2.82E-08 | 1.34E-07 |
| 53 | 258512.2 | 4085041 | 2.28E-10 | 3.30E-09 | 5.98E-08 | 5.98E-08 | 3.29E-08 | 1.56E-07 |
| 54 | 258511.3 | 4085017 | 2.61E-10 | 3.79E-09 | 6.87E-08 | 6.87E-08 | 3.77E-08 | 1.79E-07 |
| 55 | 258510.8 | 4084992 | 2.93E-10 | 4.25E-09 | 7.69E-08 | 7.69E-08 | 4.23E-08 | 2.01E-07 |
| 56 | 258510.1 | 4084967 | 3.19E-10 | 4.63E-09 | 8.38E-08 | 8.38E-08 | 4.60E-08 | 2.19E-07 |
| 57 | 258509.3 | 4084942 | 3.37E-10 | 4.90E-09 | 8.86E-08 | 8.86E-08 | 4.87E-08 | 2.31E-07 |
| 58 | 258503.6 | 4084918 | 3.47E-10 | 5.03E-09 | 9.11E-08 | 9.11E-08 | 5.01E-06 | 2.38E-07 |
| 59 | 258556.8 | 4085135 | 1.00E-10 | 1.46E-09 | 2.64E-08 | 2.64E-08 | 1.46E-08 | 6.89E-08 |
| 60 | 258541.3 | 4085175 | 8.99E-11 | 1.29E-09 | 2.34E-08 | 2.34E-08 | 1.28E-08 | 6.09E-08 |
| 61 | 258526.2 | 4085216 | 7.86E-11 | 1.14E-09 | 2.07E-08 | 2.07E-08 | 1.14E-08 | 5.39E-08 |
| 62 | 258491.3 | 4085265 | 7.33E-11 | 1.06E-09 | 1.93E-08 | 1.93E-08 | 1.06E-08 | 5.03E-08 |
| 63 | 258452 | 4085264 | 8.03E-11 | 1.17E-09 | 2.11E-06 | 2.11E-06 | 1.16E-06 | 5.31E-08 |
| 64 | 258412.6 | 4085302 | 8.75E-11 | 1.27E-09 | 2.30E-08 | 2.30E-08 | 1.26E-08 | 6.00E-08 |
| 65 | 258563.7 | 4085090 | 1.21E-10 | 1.75E-09 | 3.17E-08 | 3.17E-08 | 1.74E-08 | 8.26E-08 |
| 68 | 258562.9 | 4085065 | 1.37E-10 | 1.99E-09 | 3.61E-08 | 3.61E-08 | 1.96E-08 | 9.42E-08 |
| 67 | 258562.2 | 4085040 | 1.56E-10 | 2.27E-09 | 4.10E-06 | 4.10E-08 | 2.26E-08 | 1.07E-07 |
| 68 | 258561.5 | 4085015 | 1.76E-10 | 2.58E-09 | 4.63E-08 | 4.63E-08 | 2.55E-08 | 1.21E-07 |
| 69 | 258560.8 | 4084990 | 1.96E-10 | 2.85E-09 | 5.16E-06 | 5.16E-08 | 2.84E-06 | 1.35E-07 |
| 20 | 258560 | 4084966 | 2.15E-10 | 3.13E-09 | 5.66E-08 | 5.66E-08 | 3.11E-06 | 1.48E-07 |
| 71 | 258559.3 | 4084941 | 2.31E-10 | 3.36E-09 | 6.08E-06 | 6.08E-08 | 3.34E-06 | 1.59E-07 |
| 72 | 258558.6 | 4084916 | 2.43E-10 | 3.53E-09 | 6.39E-08 | 6.39E-08 | 3.51E-08 | 1.67E-07 |
| 73 | 258606 | 4085135 | 7.93E-11 | 1.15E-09 | 2.08E-08 | 2.06E-08 | 1.15E-08 | 5.44E-08 |
| 74 | 258597.7 | 4085157 | 7.31E-11 | 1.09E-09 | 1.97E-08 | 1.97E-08 | 1.08E-08 | 5.15E-08 |
| 75 | 258589.3 | 4085179 | 7.10E-11 | 1.03E-09 | 1.86E-08 | 1.86E-06 | 1.03E-06 | 4.86E-08 |
| 76 | 258581 | 4085202 | 6.70E-11 | 9.72E-10 | 1.76E-08 | 1.76E-08 | 9.67E-09 | 4.59E-08 |
| 72 | 258572.6 | 4085224 | 6.32E-11 | 9.17E-10 | 1.66E-08 | 1.66E-06 | 9.13E-09 | 4.33E-08 |
| 78 | 258564.3 | 4085246 | 5.97E-11 | 8.67E-10 | 1.57E-08 | 1.37E-08 | 8.62E-09 | 4.09E-08 |
| 79 | 258556 | 4085268 | 5.65E-11 | 8.20E-10 | 1.48E-08 | 1.48E-08 | 8.16E-09 | 3.87E-08 |
| 80 | 258526.1 | 4085300 | 5.59E-11 | 8.12E-10 | 1.47E-08 | 1.47E-08 | 8.08E-09 | 3.83E-08 |
| 81 | 258504.6 | 4085310 | 5.84E-11 | 8.48E-10 | 1.53E-08 | 1.53E-08 | 8.43E-09 | 4.00E-08 |
| 82 | 258483.1 | 4085320 | 6.10E-11 | 8.86E-10 | 1.60E-08 | 1.60E-08 | 8.82E-09 | 4.18E-08 |
| 83 | 258461.6 | 4085330 | 6.37E-11 | 9.25E-10 | 1.67E-08 | 1.67E-08 | 9.20E-09 | 4.37E-08 |
| 84 | 258440.1 | 4085340 | 6.63E-11 | 9.62E-10 | 1.74E-08 | 1.74E-08 | 9.57E-09 | 4.54E-08 |
| 85 | 258418.5 | 4085350 | 6.88E-11 | 9.99E-10 | 1.81E-08 | 1.81E-08 | 9.94E-09 | 4.72E-08 |
| 86 | 258397 | 4085360 | 7.15E-11 | 1.04E-09 | 1.88E-08 | 1.88E-08 | 1.03E-08 | 4.90E-08 |
| 87 | 258614.4 | 4085113 | 8.35E-11 | 1.21E-09 | 2.19E-08 | 2.19E-08 | 1.21E-08 | 5.72E-08 |
| 88 | 258613.6 | 4085088 | 9.27E-11 | 1.35E-09 | 2.44E-08 | 2.44E-08 | 1.34E-08 | 6.36E-08 |
| 89 | 258612.9 | 4085063 | 1.03E-10 | 1.50E-09 | 2.71E-08 | 2.71E-08 | 1.49E-08 | 7.08E-08 |
| 90 | 258612.2 | 4085039 | 1.15E-10 | 1.67E-09 | 3.02E-08 | 3.02E-08 | 1.66E-08 | 7.88E-08 |
| 91 | 258611.3 | 4085014 | 1.28E-10 | 1.85E-09 | 3.36E-08 | 3.36E-08 | 1.85E-08 | 8.76E-08 |
| 92 | 258610.7 | 4084989 | 1.41E-10 | 2.05E-09 | 3.71E-08 | 3.71E-06 | 2.04E-08 | 9.67E-08 |
| 93 | 258610 | 4084964 | 1.54E-10 | 2.24E-09 | 4.05E-08 | 4.05E-08 | 2.23E-08 | 1.06E-07 |
| 94 | 258609.3 | 4084940 | 1.67E-10 | 2.42E-09 | 4.36E-08 | 4.38E-08 | 2.41E-08 | 1.14E-07 |
| 95 | 258608.6 | 4084915 | 1.77E-10 | 2.57E-09 | 4.66E-08 | 4.66E-08 | 2.56E-06 | 1.22E-07 |
| 96 | 258656.3 | 4085133 | 6.48E-11 | 9.41E-10 | 1.70E-08 | 1.70E-08 | 9.36E-09 | 4.44E-08 |
| 97 | 258648.3 | 4065154 | 6.20E-11 | 9.01E-10 | 1.63E-08 | 1.63E-08 | 8.96E-09 | 4.25E-08 |
| 98 | 258640.3 | 4085175 | 5.93E-11 | 8.60E-10 | 1.56E-08 | 1.56E-08 | 6.56E-09 | 4.06E-08 |
| 99 | 258632.3 | 4085197 | 5.65E-11 | 8.20E-10 | 1.48E-08 | 1.48E-08 | 8.16E-09 | 3.87E-08 |
| 100 | 258624.3 | 4085218 | 5.38E-11 | 7.81E-10 | 1.41E-08 | 1.41E-08 | 7.72E-09 | 3.69E-08 |
| 101 | 258616.3 | 4085239 | 5.13E-11 | 7.44E-10 | 1.35E-08 | 1.35E-08 | 7.40E-09 | 3.31E-08 |
| 102 | 258608.3 | 4085260 | 4.88E-11 | 7.09E-10 | 1.28E-08 | 1.28E-08 | 7.05E-09 | 3.35E-08 |
| 103 | 258600.3 | 4085282 

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|---|---|---|---|---|---|
| 3002 | 258090.9 | 4086634 | 3.99E-04 | 6.08E-05 | 3.29E-05 |
| 3003 | 258115.2 | 4086633 | 3.91E-04 | 5.95E-05 | 3.22E-05 |
| 3004 | 258139.5 | 4086632 | 3.83E-04 | 5.83E-05 | 3.16E-05 |
| 3005 | 258163.7 | 4086630 | 3.75E-04 | 5.72E-05 | 3.09E-05 |
| 3006 | 258188 | 4086629 | 3.69E-04 | 5.61E-05 | 3.04E-05 |
| 3007 | 258212.3 | 4086628 | 3.62E-04 | 5.52E-05 | 2.99E-05 |
| 3008 | 258236.6 | 4086627 | 3.56E-04 | 5.43E-05 | 2.94E-05 |
| 3009 | 258260.9 | 4086626 | 3.51E-04 | 5.34E-05 | 2.89E-05 |
| 3010 | 258285.1 | 4086625 | 3.45E-04 | 5.26E-05 | 2.85E-05 |
| 3011 | 258309.4 | 4086624 | 3.40E-04 | 5.18E-05 | 2.80E-05 |
| 3012 | 258333.7 | 4086623 | 3.35E-04 | 5.10E-05 | 2.76E-05 |
| 3013 | 258358 | 4086622 | 3.30E-04 | 5.03E-05 | 2.72E-05 |
| 3014 | 258382.3 | 4086621 | 3.25E-04 | 4.95E-05 | 2.68E-05 |
| 3015 | 258406.6 | 4086620 | 3.20E-04 | 4.87E-05 | 2.64E-05 |
| 3016 | 258430.8 | 4086619 | 3.15E-04 | 4.80E-05 | 2.60E-05 |

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|---|---|---|---|---|---|
| 2955 | 256345.5 | 4085822 | 7.07E-04 | 1.08E-04 | 5.83E-05 |
| 2956 | 256335.5 | 4085800 | 6.78E-04 | 1.03E-04 | 5.59E-05 |
| 2957 | 256325.4 | 4085778 | 6.47E-04 | 9.86E-05 | 5.34E-05 |
| 2958 | 256315.4 | 4085757 | 6.16E-04 | 9.38E-05 | 5.08E-05 |
| 2959 | 256305.3 | 4085735 | 5.84E-04 | 8.89E-05 | 4.81E-05 |
| 2960 | 256295.3 | 4085713 | 5.52E-04 | 8.41E-05 | 4.55E-05 |
| 2961 | 256285.2 | 4085691 | 5.22E-04 | 7.95E-05 | 4.30E-05 |
| 2962 | 256275.2 | 4085669 | 4.93E-04 | 7.51E-05 | 4.06E-05 |
| 2963 | 256265.1 | 4085648 | 4.66E-04 | 7.10E-05 | 3.84E-05 |
| 2964 | 256255.1 | 4085626 | 4.41E-04 | 6.72E-05 | 3.64E-05 |
| 2965 | 256245.1 | 4085604 | 4.20E-04 | 6.39E-05 | 3.46E-05 |
| 2966 | 256235 | 4085582 | 4.01E-04 | 6.11E-05 | 3.30E-05 |
| 2967 | 256225 | 4085560 | 3.85E-04 | 5.87E-05 | 3.17E-05 |
| 2968 | 256214.9 | 4085538 | 3.72E-04 | 5.66E-05 | 3.06E-05 |
| 2969 | 256204.9 | 4085517 | 3.61E-04 | 5.49E-05 | 2.97E-05 |
| 2970 | 256194.8 | 4085495 | 3.51E-04 | 5.35E-05 | 2.89E-05 |
| 2971 | 256184.8 | 4085473 | 3.43E-04 | 5.23E-05 | 2.83E-05 |
| 2972 | 256174.7 | 4085451 | 3.36E-04 | 5.12E-05 | 2.77E-05 |
| 2973 | 256164.7 | 4085429 | 3.30E-04 | 5.03E-05 | 2.72E-05 |
| 2974 | 256154.6 | 4085408 | 3.24E-04 | 4.93E-05 | 2.67E-05 |
| 2975 | 256144.6 | 4085386 | 3.17E-04 | 4.84E-05 | 2.62E-05 |
| 2976 | 256134.5 | 4085364 | 3.11E-04 | 4.74E-05 | 2.57E-05 |
| 2977 | 256124.5 | 4085342 | 3.05E-04 | 4.65E-05 | 2.51E-05 |
| 2978 | 256114.4 | 4085320 | 2.99E-04 | 4.55E-05 | 2.46E-05 |
| 2979 | 256104.4 | 4085298 | 2.93E-04 | 4.46E-05 | 2.41E-05 |
| 2980 | 256094.3 | 4085277 | 2.88E-04 | 4.38E-05 | 2.37E-05 |
| 2981 | 256084.3 | 4085255 | 2.82E-04 | 4.30E-05 | 2.33E-05 |
| 2982 | 256074.2 | 4085233 | 2.78E-04 | 4.24E-05 | 2.29E-05 |
| 2983 | 257629.5 | 4086654 | 5.16E-04 | 7.86E-05 | 4.25E-05 |
| 2984 | 257653.8 | 4086653 | 5.11E-04 | 7.79E-05 | 4.22E-05 |
| 2985 | 257678.1 | 4086652 | 5.07E-04 | 7.72E-05 | 4.18E-05 |
| 2986 | 257702.4 | 4086651 | 5.02E-04 | 7.66E-05 | 4.14E-05 |
| 2987 | 257726.7 | 4086650 | 4.98E-04 | 7.59E-05 | 4.11E-05 |
| 2988 | 257750.9 | 4086649 | 4.94E-04 | 7.53E-05 | 4.07E-05 |
| 2989 | 257775.2 | 4086648 | 4.90E-04 | 7.46E-05 | 4.04E-05 |
| 2990 | 257799.5 | 4086647 | 4.85E-04 | 7.40E-05 | 4.00E-05 |
| 2991 | 257823.8 | 4086646 | 4.81E-04 | 7.32E-05 | 3.96E-05 |
| 2992 | 257848.1 | 4086644 | 4.76E-04 | 7.24E-05 | 3.92E-05 |
| 2993 | 257872.4 | 4086643 | 4.70E-04 | 7.16E-05 | 3.87E-05 |
| 2994 | 257896.6 | 4086642 | 4.64E-04 | 7.06E-05 | 3.82E-05 |
| 2995 | 257920.9 | 4086641 | 4.57E-04 | 6.96E-05 | 3.77E-05 |
| 2996 | 257945.2 | 4086640 | 4.50E-04 | 6.85E-05 | 3.71E-05 |
| 2997 | 257969.5 | 4086639 | 4.42E-04 | 6.73E-05 | 3.64E-05 |
| 2998 | 257993.8 | 4086638 | 4.34E-04 | 6.61E-05 | 3.58E-05 |
| 2999 | 258018 | 4086637 | 4.25E-04 | 6.48E-05 | 3.51E-05 |
| 3000 | 258042.3 | 4086636 | 4.17E-04 | 6.35E-05 | 3.43E-05 |
| 3001 | 258066.6 | 4086635 | 4.08E-04 | 6.21E-05 | 3.36E-05 |

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| 2908 | 257178.3 | 4086489 | 6.98E-04 | 1.06E-04 | 5.75E-05 |
| 2909 | 257155.7 | 4086481 | 7.04E-04 | 1.07E-04 | 5.81E-05 |
| 2910 | 257133.1 | 4086473 | 7.11E-04 | 1.08E-04 | 5.86E-05 |
| 2911 | 257110.6 | 4086465 | 7.17E-04 | 1.09E-04 | 5.91E-05 |
| 2912 | 257088 | 4086456 | 7.24E-04 | 1.10E-04 | 5.97E-05 |
| 2913 | 257065.4 | 4086448 | 7.30E-04 | 1.11E-04 | 6.01E-05 |
| 2914 | 257042.9 | 4086440 | 7.35E-04 | 1.12E-04 | 6.06E-05 |
| 2915 | 257020.3 | 4086432 | 7.40E-04 | 1.13E-04 | 6.10E-05 |
| 2916 | 256997.8 | 4086423 | 7.44E-04 | 1.13E-04 | 6.13E-05 |
| 2917 | 256975.2 | 4086415 | 7.47E-04 | 1.14E-04 | 6.16E-05 |
| 2918 | 256952.6 | 4086407 | 7.49E-04 | 1.14E-04 | 6.17E-05 |
| 2919 | 256930.1 | 4086399 | 7.50E-04 | 1.14E-04 | 6.18E-05 |
| 2920 | 256907.5 | 4086390 | 7.50E-04 | 1.14E-04 | 6.18E-05 |
| 2921 | 256884.9 | 4086382 | 7.50E-04 | 1.14E-04 | 6.18E-05 |
| 2922 | 256862.4 | 4086374 | 7.49E-04 | 1.14E-04 | 6.17E-05 |
| 2923 | 256839.8 | 4086366 | 7.48E-04 | 1.14E-04 | 6.16E-05 |
| 2924 | 256817.2 | 4086357 | 7.47E-04 | 1.14E-04 | 6.15E-05 |
| 2925 | 256794.7 | 4086349 | 7.46E-04 | 1.14E-04 | 6.15E-05 |
| 2926 | 256772.1 | 4086341 | 7.46E-04 | 1.14E-04 | 6.15E-05 |
| 2927 | 256749.6 | 4086333 | 7.46E-04 | 1.14E-04 | 6.15E-05 |
| 2928 | 256727 | 4086324 | 7.47E-04 | 1.14E-04 | 6.16E-05 |
| 2929 | 256704.4 | 4086316 | 7.48E-04 | 1.14E-04 | 6.17E-05 |
| 2930 | 256681.9 | 4086308 | 7.50E-04 | 1.14E-04 | 6.18E-05 |
| 2931 | 256659.3 | 4086300 | 7.51E-04 | 1.14E-04 | 6.19E-05 |
| 2932 | 256636.7 | 4086291 | 7.53E-04 | 1.15E-04 | 6.21E-05 |
| 2933 | 256614.2 | 4086283 | 7.56E-04 | 1.15E-04 | 6.23E-05 |
| 2934 | 256591.6 | 4086275 | 7.58E-04 | 1.16E-04 | 6.25E-05 |
| 2935 | 256569 | 4086267 | 7.60E-04 | 1.16E-04 | 6.26E-05 |
| 2936 | 256536.4 | 4086237 | 7.73E-04 | 1.18E-04 | 6.37E-05 |
| 2937 | 256526.4 | 4086215 | 7.85E-04 | 1.20E-04 | 6.47E-05 |
| 2938 | 256516.3 | 4086193 | 7.96E-04 | 1.21E-04 | 6.57E-05 |
| 2939 | 256506.3 | 4086171 | 8.07E-04 | 1.23E-04 | 6.66E-05 |
| 2940 | 256496.2 | 4086149 | 8.18E-04 | 1.25E-04 | 6.74E-05 |
| 2941 | 256486.2 | 4086128 | 8.27E-04 | 1.26E-04 | 6.81E-05 |
| 2942 | 256476.1 | 4086106 | 8.34E-04 | 1.27E-04 | 6.88E-05 |
| 2943 | 256466.1 | 4086084 | 8.40E-04 | 1.28E-04 | 6.93E-05 |
| 2944 | 256456.1 | 4086062 | 8.44E-04 | 1.29E-04 | 6.96E-05 |
| 2945 | 256446 | 4086040 | 8.46E-04 | 1.29E-04 | 6.97E-05 |
| 2946 | 256436 | 4086018 | 8.45E-04 | 1.29E-04 | 6.96E-05 |
| 2947 | 256425.9 | 4085997 | 8.41E-04 | 1.28E-04 | 6.93E-05 |
| 2948 | 256415.9 | 4085975 | 8.35E-04 | 1.27E-04 | 6.88E-05 |
| 2949 | 256405.8 | 4085953 | 8.25E-04 | 1.26E-04 | 6.80E-05 |
| 2950 | 256395.8 | 4085931 | 8.13E-04 | 1.24E-04 | 6.70E-05 |
| 2951 | 256385.7 | 4085909 | 7.97E-04 | 1.21E-04 | 6.57E-05 |
| 2952 | 256375.7 | 4085888 | 7.79E-04 | 1.19E-04 | 6.42E-05 |
| 2953 | 256365.6 | 4085866 | 7.59E-04 | 1.16E-04 | 6.26E-05 |
| 2954 | 256355.6 | 4085844 | 7.34E-04 | 1.12E-04 | 6.05E-05 |

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|---|---|---|---|---|---|
| 2861 | 257766.4 | 4086448 | 5.97E-04 | 9.09E-05 | 4.92E-05 |
| 2862 | 257790.7 | 4086447 | 5.89E-04 | 8.98E-05 | 4.86E-05 |
| 2863 | 257814.9 | 4086446 | 5.82E-04 | 8.87E-05 | 4.80E-05 |
| 2864 | 257839.2 | 4086445 | 5.75E-04 | 8.76E-05 | 4.74E-05 |
| 2865 | 257863.5 | 4086444 | 5.68E-04 | 8.65E-05 | 4.68E-05 |
| 2866 | 257887.8 | 4086443 | 5.60E-04 | 8.53E-05 | 4.61E-05 |
| 2867 | 257912.1 | 4086441 | 5.52E-04 | 8.40E-05 | 4.55E-05 |
| 2868 | 257936.3 | 4086440 | 5.43E-04 | 8.27E-05 | 4.47E-05 |
| 2869 | 257960.6 | 4086439 | 5.34E-04 | 8.13E-05 | 4.40E-05 |
| 2870 | 257984.9 | 4086438 | 5.24E-04 | 7.98E-05 | 4.32E-05 |
| 2871 | 258009.2 | 4086437 | 5.14E-04 | 7.82E-05 | 4.23E-05 |
| 2872 | 258033.5 | 4086436 | 5.03E-04 | 7.67E-05 | 4.15E-05 |
| 2873 | 258057.8 | 4086435 | 4.93E-04 | 7.51E-05 | 4.06E-05 |
| 2874 | 258082 | 4086434 | 4.82E-04 | 7.35E-05 | 3.98E-05 |
| 2875 | 258106.3 | 4086433 | 4.72E-04 | 7.20E-05 | 3.89E-05 |
| 2876 | 258130.6 | 4086432 | 4.63E-04 | 7.05E-05 | 3.82E-05 |
| 2877 | 258154.9 | 4086431 | 4.54E-04 | 6.92E-05 | 3.74E-05 |
| 2878 | 258179.2 | 4086430 | 4.46E-04 | 6.79E-05 | 3.67E-05 |
| 2879 | 258203.4 | 4086429 | 4.38E-04 | 6.67E-05 | 3.61E-05 |
| 2880 | 258227.7 | 4086427 | 4.30E-04 | 6.56E-05 | 3.55E-05 |
| 2881 | 258252 | 4086426 | 4.23E-04 | 6.45E-05 | 3.49E-05 |
| 2882 | 258276.3 | 4086425 | 4.16E-04 | 6.34E-05 | 3.43E-05 |
| 2883 | 258300.6 | 4086424 | 4.09E-04 | 6.23E-05 | 3.37E-05 |
| 2884 | 258324.9 | 4086423 | 4.01E-04 | 6.11E-05 | 3.31E-05 |
| 2885 | 258349.1 | 4086422 | 3.93E-04 | 5.99E-05 | 3.24E-05 |
| 2886 | 258373.4 | 4086421 | 3.86E-04 | 5.87E-05 | 3.18E-05 |
| 2887 | 258397.7 | 4086420 | 3.78E-04 | 5.75E-05 | 3.11E-05 |
| 2888 | 258422 | 4086419 | 3.70E-04 | 5.63E-05 | 3.05E-05 |
| 2889 | 257607 | 4086646 | 5.25E-04 | 8.01E-05 | 4.33E-05 |
| 2890 | 257584.4 | 4086638 | 5.35E-04 | 8.16E-05 | 4.41E-05 |
| 2891 | 257561.8 | 4086629 | 5.46E-04 | 8.32E-05 | 4.50E-05 |
| 2892 | 257539.3 | 4086621 | 5.57E-04 | 8.48E-05 | 4.59E-05 |
| 2893 | 257516.7 | 4086613 | 5.68E-04 | 8.65E-05 | 4.68E-05 |
| 2894 | 257494.2 | 4086605 | 5.79E-04 | 8.82E-05 | 4.77E-05 |
| 2895 | 257471.6 | 4086596 | 5.90E-04 | 8.99E-05 | 4.87E-05 |
| 2896 | 257449 | 4086588 | 6.01E-04 | 9.16E-05 | 4.96E-05 |
| 2897 | 257426.5 | 4086580 | 6.12E-04 | 9.32E-05 | 5.04E-05 |
| 2898 | 257403.9 | 4086572 | 6.22E-04 | 9.48E-05 | 5.13E-05 |
| 2899 | 257381.3 | 4086563 | 6.32E-04 | 9.63E-05 | 5.21E-05 |
| 2900 | 257358.8 | 4086555 | 6.41E-04 | 9.76E-05 | 5.28E-05 |
| 2901 | 257336.2 | 4086547 | 6.49E-04 | 9.88E-05 | 5.35E-05 |
| 2902 | 257313.6 | 4086539 | 6.56E-04 | 1.00E-04 | 5.41E-05 |
| 2903 | 257291.1 | 4086530 | 6.63E-04 | 1.01E-04 | 5.47E-05 |
| 2904 | 257268.5 | 4086522 | 6.70E-04 | 1.02E-04 | 5.52E-05 |
| 2905 | 257246 | 4086514 | 6.77E-04 | 1.03E-04 | 5.58E-05 |
| 2906 | 257223.4 | 4086506 | 6.84E-04 | 1.04E-04 | 5.64E-05 |
| 2907 | 257200.8 | 4086498 | 6.91E-04 | 1.05E-04 | 5.70E-05 |

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| 2814 | 256672.1 | 4086090 | 9.10E-04 | 1.39E-04 | 7.50E-05 |
| 2815 | 256662.1 | 4086068 | 9.25E-04 | 1.41E-04 | 7.62E-05 |
| 2816 | 256652.2 | 4086047 | 9.40E-04 | 1.43E-04 | 7.75E-05 |
| 2817 | 256642.2 | 4086025 | 9.52E-04 | 1.45E-04 | 7.85E-05 |
| 2818 | 256632.3 | 4086003 | 9.62E-04 | 1.47E-04 | 7.93E-05 |
| 2819 | 256622.3 | 4085982 | 9.71E-04 | 1.48E-04 | 8.00E-05 |
| 2820 | 256612.4 | 4085960 | 9.77E-04 | 1.49E-04 | 8.05E-05 |
| 2821 | 256602.4 | 4085939 | 9.80E-04 | 1.49E-04 | 8.08E-05 |
| 2822 | 256592.5 | 4085917 | 9.79E-04 | 1.49E-04 | 8.07E-05 |
| 2823 | 256582.5 | 4085895 | 9.75E-04 | 1.49E-04 | 8.04E-05 |
| 2824 | 256572.6 | 4085874 | 9.67E-04 | 1.47E-04 | 7.97E-05 |
| 2825 | 256562.6 | 4085852 | 9.54E-04 | 1.45E-04 | 7.87E-05 |
| 2826 | 256552.7 | 4085830 | 9.38E-04 | 1.43E-04 | 7.73E-05 |
| 2827 | 256542.7 | 4085809 | 9.18E-04 | 1.40E-04 | 7.57E-05 |
| 2828 | 256532.8 | 4085787 | 8.94E-04 | 1.36E-04 | 7.37E-05 |
| 2829 | 256522.8 | 4085766 | 8.66E-04 | 1.32E-04 | 7.14E-05 |
| 2830 | 256512.9 | 4085744 | 8.35E-04 | 1.27E-04 | 6.88E-05 |
| 2831 | 256502.9 | 4085722 | 8.00E-04 | 1.22E-04 | 6.60E-05 |
| 2832 | 256493 | 4085701 | 7.65E-04 | 1.17E-04 | 6.31E-05 |
| 2833 | 256483 | 4085679 | 7.27E-04 | 1.11E-04 | 5.99E-05 |
| 2834 | 256473 | 4085658 | 6.87E-04 | 1.05E-04 | 5.67E-05 |
| 2835 | 256463.1 | 4085636 | 6.48E-04 | 9.87E-05 | 5.34E-05 |
| 2836 | 256453.1 | 4085614 | 6.10E-04 | 9.29E-05 | 5.03E-05 |
| 2837 | 256443.2 | 4085593 | 5.74E-04 | 8.74E-05 | 4.73E-05 |
| 2838 | 256433.2 | 4085571 | 5.40E-04 | 8.23E-05 | 4.45E-05 |
| 2839 | 256423.3 | 4085550 | 5.10E-04 | 7.77E-05 | 4.21E-05 |
| 2840 | 256413.3 | 4085528 | 4.84E-04 | 7.37E-05 | 3.99E-05 |
| 2841 | 256403.4 | 4085506 | 4.61E-04 | 7.03E-05 | 3.80E-05 |
| 2842 | 256393.4 | 4085485 | 4.42E-04 | 6.74E-05 | 3.65E-05 |
| 2843 | 256383.5 | 4085463 | 4.26E-04 | 6.49E-05 | 3.51E-05 |
| 2844 | 256373.5 | 4085441 | 4.13E-04 | 6.29E-05 | 3.40E-05 |
| 2845 | 256363.6 | 4085420 | 4.01E-04 | 6.12E-05 | 3.31E-05 |
| 2846 | 256353.6 | 4085398 | 3.91E-04 | 5.96E-05 | 3.23E-05 |
| 2847 | 256343.7 | 4085377 | 3.82E-04 | 5.82E-05 | 3.15E-05 |
| 2848 | 256333.7 | 4085355 | 3.74E-04 | 5.69E-05 | 3.08E-05 |
| 2849 | 256323.8 | 4085333 | 3.65E-04 | 5.56E-05 | 3.01E-05 |
| 2850 | 256313.8 | 4085312 | 3.57E-04 | 5.44E-05 | 2.94E-05 |
| 2851 | 256303.9 | 4085290 | 3.50E-04 | 5.33E-05 | 2.88E-05 |
| 2852 | 256293.9 | 4085269 | 3.42E-04 | 5.21E-05 | 2.82E-05 |
| 2853 | 256284 | 4085247 | 3.36E-04 | 5.11E-05 | 2.77E-05 |
| 2854 | 256274 | 4085225 | 3.30E-04 | 5.02E-05 | 2.72E-05 |
| 2855 | 257620.7 | 4086454 | 6.45E-04 | 9.83E-05 | 5.32E-05 |
| 2856 | 257645 | 4086453 | 6.37E-04 | 9.71E-05 | 5.25E-05 |
| 2857 | 257669.2 | 4086452 | 6.29E-04 | 9.59E-05 | 5.19E-05 |
| 2858 | 257693.5 | 4086451 | 6.21E-04 | 9.46E-05 | 5.12E-05 |
| 2859 | 257717.8 | 4086450 | 6.12E-04 | 9.33E-05 | 5.05E-05 |
| 2860 | 257742.1 | 4086449 | 6.04E-04 | 9.20E-05 | 4.98E-05 |

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| 2767 | 258291.7 | 4086224 | 5.09E-04 | 7.75E-05 | 4.19E-05 |
| 2768 | 258316 | 4086223 | 4.96E-04 | 7.56E-05 | 4.09E-05 |
| 2769 | 258340.3 | 4086222 | 4.84E-04 | 7.38E-05 | 3.99E-05 |
| 2770 | 258364.6 | 4086221 | 4.72E-04 | 7.19E-05 | 3.89E-05 |
| 2771 | 258388.9 | 4086220 | 4.60E-04 | 7.01E-05 | 3.79E-05 |
| 2772 | 258413.1 | 4086219 | 4.48E-04 | 6.82E-05 | 3.69E-05 |
| 2773 | 257598.3 | 4086446 | 6.60E-04 | 1.01E-04 | 5.44E-05 |
| 2774 | 257576 | 4086438 | 6.75E-04 | 1.03E-04 | 5.57E-05 |
| 2775 | 257553.6 | 4086430 | 6.90E-04 | 1.05E-04 | 5.68E-05 |
| 2776 | 257531.3 | 4086422 | 7.04E-04 | 1.07E-04 | 5.80E-05 |
| 2777 | 257508.9 | 4086414 | 7.17E-04 | 1.09E-04 | 5.91E-05 |
| 2778 | 257486.6 | 4086405 | 7.31E-04 | 1.11E-04 | 6.02E-05 |
| 2779 | 257464.2 | 4086397 | 7.43E-04 | 1.13E-04 | 6.12E-05 |
| 2780 | 257441.9 | 4086389 | 7.55E-04 | 1.15E-04 | 6.22E-05 |
| 2781 | 257419.5 | 4086381 | 7.66E-04 | 1.17E-04 | 6.31E-05 |
| 2782 | 257397.2 | 4086373 | 7.76E-04 | 1.18E-04 | 6.40E-05 |
| 2783 | 257374.9 | 4086365 | 7.86E-04 | 1.20E-04 | 6.48E-05 |
| 2784 | 257352.5 | 4086356 | 7.95E-04 | 1.21E-04 | 6.55E-05 |
| 2785 | 257330.2 | 4086348 | 8.03E-04 | 1.22E-04 | 6.62E-05 |
| 2786 | 257307.8 | 4086340 | 8.11E-04 | 1.24E-04 | 6.69E-05 |
| 2787 | 257285.5 | 4086332 | 8.19E-04 | 1.25E-04 | 6.75E-05 |
| 2788 | 257263.1 | 4086324 | 8.27E-04 | 1.26E-04 | 6.81E-05 |
| 2789 | 257240.8 | 4086316 | 8.34E-04 | 1.27E-04 | 6.88E-05 |
| 2790 | 257218.4 | 4086307 | 8.42E-04 | 1.28E-04 | 6.94E-05 |
| 2791 | 257196.1 | 4086299 | 8.49E-04 | 1.29E-04 | 7.00E-05 |
| 2792 | 257173.7 | 4086291 | 8.57E-04 | 1.31E-04 | 7.06E-05 |
| 2793 | 257151.4 | 4086283 | 8.67E-04 | 1.32E-04 | 7.14E-05 |
| 2794 | 257129 | 4086275 | 8.75E-04 | 1.33E-04 | 7.21E-05 |
| 2795 | 257106.7 | 4086267 | 8.82E-04 | 1.34E-04 | 7.27E-05 |
| 2796 | 257084.3 | 4086258 | 8.88E-04 | 1.35E-04 | 7.32E-05 |
| 2797 | 257062 | 4086250 | 8.93E-04 | 1.36E-04 | 7.36E-05 |
| 2798 | 257039.6 | 4086242 | 8.96E-04 | 1.37E-04 | 7.39E-05 |
| 2799 | 257017.3 | 4086234 | 8.99E-04 | 1.37E-04 | 7.41E-05 |
| 2800 | 256994.9 | 4086226 | 9.00E-04 | 1.37E-04 | 7.42E-05 |
| 2801 | 256972.6 | 4086218 | 8.98E-04 | 1.37E-04 | 7.40E-05 |
| 2802 | 256950.2 | 4086209 | 8.96E-04 | 1.36E-04 | 7.38E-05 |
| 2803 | 256927.9 | 4086201 | 8.95E-04 | 1.36E-04 | 7.37E-05 |
| 2804 | 256905.5 | 4086193 | 8.94E-04 | 1.36E-04 | 7.37E-05 |
| 2805 | 256883.2 | 4086185 | 8.93E-04 | 1.36E-04 | 7.36E-05 |
| 2806 | 256860.8 | 4086177 | 8.92E-04 | 1.36E-04 | 7.35E-05 |
| 2807 | 256838.5 | 4086169 | 8.92E-04 | 1.36E-04 | 7.35E-05 |
| 2808 | 256816.1 | 4086160 | 8.93E-04 | 1.36E-04 | 7.36E-05 |
| 2809 | 256793.8 | 4086152 | 8.93E-04 | 1.36E-04 | 7.36E-05 |
| 2810 | 256771.4 | 4086144 | 8.94E-04 | 1.36E-04 | 7.37E-05 |
| 2811 | 256749.1 | 4086136 | 8.94E-04 | 1.36E-04 | 7.37E-05 |
| 2812 | 256726.7 | 4086128 | 8.95E-04 | 1.36E-04 | 7.37E-05 |
| 2813 | 256704.4 | 4086120 | 8.95E-04 | 1.36E-04 | 7.38E-05 |

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| 2720 | 256655.9 | 4085613 | 9.11E-04 | 1.39E-04 | 7.51E-05 |
| 2721 | 256645.8 | 4085591 | 8.60E-04 | 1.31E-04 | 7.09E-05 |
| 2722 | 256635.7 | 4085569 | 8.09E-04 | 1.23E-04 | 6.67E-05 |
| 2723 | 256625.6 | 4085547 | 7.58E-04 | 1.15E-04 | 6.25E-05 |
| 2724 | 256615.5 | 4085526 | 7.09E-04 | 1.08E-04 | 5.84E-05 |
| 2725 | 256605.4 | 4085504 | 6.63E-04 | 1.01E-04 | 5.47E-05 |
| 2726 | 256595.3 | 4085482 | 6.22E-04 | 9.48E-05 | 5.13E-05 |
| 2727 | 256585.2 | 4085460 | 5.86E-04 | 8.93E-05 | 4.83E-05 |
| 2728 | 256575.1 | 4085438 | 5.55E-04 | 8.45E-05 | 4.57E-05 |
| 2729 | 256565 | 4085416 | 5.29E-04 | 8.05E-05 | 4.36E-05 |
| 2730 | 256554.9 | 4085394 | 5.07E-04 | 7.72E-05 | 4.18E-05 |
| 2731 | 256544.8 | 4085372 | 4.88E-04 | 7.44E-05 | 4.02E-05 |
| 2732 | 256534.7 | 4085350 | 4.72E-04 | 7.19E-05 | 3.89E-05 |
| 2733 | 256524.5 | 4085328 | 4.58E-04 | 6.98E-05 | 3.78E-05 |
| 2734 | 256514.4 | 4085306 | 4.45E-04 | 6.78E-05 | 3.67E-05 |
| 2735 | 256504.3 | 4085284 | 4.33E-04 | 6.60E-05 | 3.57E-05 |
| 2736 | 256494.2 | 4085262 | 4.22E-04 | 6.43E-05 | 3.48E-05 |
| 2737 | 256484.1 | 4085240 | 4.12E-04 | 6.28E-05 | 3.40E-05 |
| 2738 | 256474 | 4085218 | 4.03E-04 | 6.14E-05 | 3.32E-05 |
| 2739 | 257611.8 | 4086255 | 8.46E-04 | 1.29E-04 | 6.98E-05 |
| 2740 | 257636.1 | 4086253 | 8.37E-04 | 1.28E-04 | 6.90E-05 |
| 2741 | 257660.4 | 4086252 | 8.27E-04 | 1.26E-04 | 6.81E-05 |
| 2742 | 257684.7 | 4086251 | 8.15E-04 | 1.24E-04 | 6.72E-05 |
| 2743 | 257709 | 4086250 | 8.03E-04 | 1.22E-04 | 6.62E-05 |
| 2744 | 257733.2 | 4086249 | 7.90E-04 | 1.20E-04 | 6.51E-05 |
| 2745 | 257757.5 | 4086248 | 7.77E-04 | 1.18E-04 | 6.41E-05 |
| 2746 | 257781.8 | 4086247 | 7.64E-04 | 1.16E-04 | 6.30E-05 |
| 2747 | 257806.1 | 4086246 | 7.50E-04 | 1.14E-04 | 6.18E-05 |
| 2748 | 257830.4 | 4086245 | 7.36E-04 | 1.12E-04 | 6.07E-05 |
| 2749 | 257854.7 | 4086244 | 7.23E-04 | 1.10E-04 | 5.96E-05 |
| 2750 | 257878.9 | 4086243 | 7.10E-04 | 1.08E-04 | 5.85E-05 |
| 2751 | 257903.2 | 4086242 | 6.97E-04 | 1.06E-04 | 5.74E-05 |
| 2752 | 257927.5 | 4086241 | 6.85E-04 | 1.04E-04 | 5.64E-05 |
| 2753 | 257951.8 | 4086239 | 6.73E-04 | 1.02E-04 | 5.55E-05 |
| 2754 | 257976.1 | 4086238 | 6.61E-04 | 1.01E-04 | 5.45E-05 |
| 2755 | 258000.3 | 4086237 | 6.49E-04 | 9.89E-05 | 5.35E-05 |
| 2756 | 258024.6 | 4086236 | 6.37E-04 | 9.71E-05 | 5.25E-05 |
| 2757 | 258048.9 | 4086235 | 6.25E-04 | 9.53E-05 | 5.15E-05 |
| 2758 | 258073.2 | 4086234 | 6.13E-04 | 9.35E-05 | 5.06E-05 |
| 2759 | 258097.5 | 4086233 | 6.02E-04 | 9.17E-05 | 4.96E-05 |
| 2760 | 258121.8 | 4086232 | 5.91E-04 | 9.01E-05 | 4.87E-05 |
| 2761 | 258146 | 4086231 | 5.80E-04 | 8.84E-05 | 4.78E-05 |
| 2762 | 258170.3 | 4086230 | 5.68E-04 | 8.66E-05 | 4.68E-05 |
| 2763 | 258194.6 | 4086229 | 5.56E-04 | 8.48E-05 | 4.59E-05 |
| 2764 | 258218.9 | 4086228 | 5.45E-04 | 8.30E-05 | 4.49E-05 |
| 2765 | 258243.2 | 4086227 | 5.33E-04 | 8.12E-05 | 4.39E-05 |
| 2766 | 258267.4 | 4086225 | 5.21E-04 | 7.94E-05 | 4.29E-05 |

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| 2673 | 257543.8 | 4086230 | 9.01E-04 | 1.37E-04 | 7.42E-05 |
| 2674 | 257521.1 | 4086221 | 9.17E-04 | 1.40E-04 | 7.56E-05 |
| 2675 | 257498.4 | 4086213 | 9.33E-04 | 1.42E-04 | 7.69E-05 |
| 2676 | 257475.7 | 4086205 | 9.47E-04 | 1.44E-04 | 7.81E-05 |
| 2677 | 257453 | 4086196 | 9.61E-04 | 1.46E-04 | 7.92E-05 |
| 2678 | 257430.3 | 4086188 | 9.74E-04 | 1.48E-04 | 8.03E-05 |
| 2679 | 257407.6 | 4086180 | 9.87E-04 | 1.50E-04 | 8.13E-05 |
| 2680 | 257384.9 | 4086172 | 9.98E-04 | 1.52E-04 | 8.23E-05 |
| 2681 | 257362.2 | 4086163 | 1.01E-03 | 1.54E-04 | 8.31E-05 |
| 2682 | 257339.5 | 4086155 | 1.02E-03 | 1.55E-04 | 8.40E-05 |
| 2683 | 257316.8 | 4086147 | 1.03E-03 | 1.57E-04 | 8.50E-05 |
| 2684 | 257294.1 | 4086138 | 1.04E-03 | 1.59E-04 | 8.59E-05 |
| 2685 | 257271.4 | 4086130 | 1.05E-03 | 1.60E-04 | 8.67E-05 |
| 2686 | 257248.8 | 4086122 | 1.06E-03 | 1.62E-04 | 8.76E-05 |
| 2687 | 257226.1 | 4086114 | 1.07E-03 | 1.64E-04 | 8.85E-05 |
| 2688 | 257203.4 | 4086105 | 1.08E-03 | 1.65E-04 | 8.93E-05 |
| 2689 | 257180.7 | 4086097 | 1.09E-03 | 1.67E-04 | 9.01E-05 |
| 2690 | 257158 | 4086089 | 1.10E-03 | 1.68E-04 | 9.09E-05 |
| 2691 | 257135.3 | 4086080 | 1.11E-03 | 1.69E-04 | 9.14E-05 |
| 2692 | 257112.6 | 4086072 | 1.11E-03 | 1.70E-04 | 9.18E-05 |
| 2693 | 257089.9 | 4086064 | 1.12E-03 | 1.70E-04 | 9.20E-05 |
| 2694 | 257067.2 | 4086056 | 1.12E-03 | 1.70E-04 | 9.21E-05 |
| 2695 | 257044.5 | 4086047 | 1.12E-03 | 1.70E-04 | 9.20E-05 |
| 2696 | 257021.8 | 4086039 | 1.11E-03 | 1.70E-04 | 9.18E-05 |
| 2697 | 256999.1 | 4086031 | 1.11E-03 | 1.69E-04 | 9.16E-05 |
| 2698 | 256976.4 | 4086022 | 1.11E-03 | 1.69E-04 | 9.14E-05 |
| 2699 | 256953.8 | 4086014 | 1.11E-03 | 1.68E-04 | 9.11E-05 |
| 2700 | 256931.1 | 4086006 | 1.10E-03 | 1.68E-04 | 9.10E-05 |
| 2701 | 256908.4 | 4085998 | 1.10E-03 | 1.68E-04 | 9.08E-05 |
| 2702 | 256885.7 | 4085989 | 1.10E-03 | 1.67E-04 | 9.06E-05 |
| 2703 | 256863 | 4085981 | 1.10E-03 | 1.67E-04 | 9.04E-05 |
| 2704 | 256840.3 | 4085973 | 1.09E-03 | 1.67E-04 | 9.02E-05 |
| 2705 | 256807.5 | 4085942 | 1.11E-03 | 1.69E-04 | 9.15E-05 |
| 2706 | 256797.4 | 4085920 | 1.13E-03 | 1.72E-04 | 9.28E-05 |
| 2707 | 256787.3 | 4085899 | 1.14E-03 | 1.74E-04 | 9.40E-05 |
| 2708 | 256777.2 | 4085877 | 1.15E-03 | 1.76E-04 | 9.50E-05 |
| 2709 | 256767.1 | 4085855 | 1.16E-03 | 1.77E-04 | 9.58E-05 |
| 2710 | 256757 | 4085833 | 1.17E-03 | 1.78E-04 | 9.61E-05 |
| 2711 | 256746.9 | 4085811 | 1.17E-03 | 1.78E-04 | 9.61E-05 |
| 2712 | 256736.8 | 4085789 | 1.16E-03 | 1.77E-04 | 9.56E-05 |
| 2713 | 256726.7 | 4085767 | 1.15E-03 | 1.75E-04 | 9.46E-05 |
| 2714 | 256716.5 | 4085745 | 1.13E-03 | 1.72E-04 | 9.31E-05 |
| 2715 | 256706.4 | 4085723 | 1.11E-03 | 1.69E-04 | 9.12E-05 |
| 2716 | 256696.3 | 4085701 | 1.08E-03 | 1.64E-04 | 8.89E-05 |
| 2717 | 256686.2 | 4085679 | 1.04E-03 | 1.59E-04 | 8.60E-05 |
| 2718 | 256676.1 | 4085657 | 1.00E-03 | 1.53E-04 | 8.27E-05 |
| 2719 | 256666 | 4085635 | 9.59E-04 | 1.46E-04 | 7.90E-05 |

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| 2626 | 256773.5 | 4085427 | 8.31E-04 | 1.27E-04 | 6.85E-05 |
| 2627 | 256763.6 | 4085406 | 7.75E-04 | 1.18E-04 | 6.39E-05 |
| 2628 | 256753.6 | 4085384 | 7.26E-04 | 1.11E-04 | 5.98E-05 |
| 2629 | 256743.6 | 4085362 | 6.83E-04 | 1.04E-04 | 5.63E-05 |
| 2630 | 256733.6 | 4085341 | 6.48E-04 | 9.87E-05 | 5.34E-05 |
| 2631 | 256723.7 | 4085319 | 6.17E-04 | 9.41E-05 | 5.09E-05 |
| 2632 | 256713.7 | 4085297 | 5.92E-04 | 9.02E-05 | 4.88E-05 |
| 2633 | 256703.7 | 4085276 | 5.70E-04 | 8.68E-05 | 4.70E-05 |
| 2634 | 256693.7 | 4085254 | 5.51E-04 | 8.39E-05 | 4.54E-05 |
| 2635 | 256683.7 | 4085232 | 5.33E-04 | 8.13E-05 | 4.40E-05 |
| 2636 | 256673.8 | 4085211 | 5.18E-04 | 7.90E-05 | 4.27E-05 |
| 2637 | 257603 | 4086055 | 1.16E-03 | 1.77E-04 | 9.56E-05 |
| 2638 | 257627.3 | 4086054 | 1.15E-03 | 1.76E-04 | 9.50E-05 |
| 2639 | 257651.6 | 4086053 | 1.14E-03 | 1.74E-04 | 9.43E-05 |
| 2640 | 257675.8 | 4086051 | 1.13E-03 | 1.73E-04 | 9.34E-05 |
| 2641 | 257700.1 | 4086050 | 1.12E-03 | 1.71E-04 | 9.24E-05 |
| 2642 | 257724.4 | 4086049 | 1.11E-03 | 1.69E-04 | 9.12E-05 |
| 2643 | 257748.7 | 4086048 | 1.09E-03 | 1.66E-04 | 8.98E-05 |
| 2644 | 257773 | 4086047 | 1.07E-03 | 1.63E-04 | 8.82E-05 |
| 2645 | 257797.2 | 4086046 | 1.05E-03 | 1.60E-04 | 8.65E-05 |
| 2646 | 257821.5 | 4086045 | 1.03E-03 | 1.56E-04 | 8.47E-05 |
| 2647 | 257845.8 | 4086044 | 1.00E-03 | 1.53E-04 | 8.28E-05 |
| 2648 | 257870.1 | 4086043 | 9.81E-04 | 1.49E-04 | 8.09E-05 |
| 2649 | 257894.4 | 4086042 | 9.59E-04 | 1.46E-04 | 7.90E-05 |
| 2650 | 257918.7 | 4086041 | 9.38E-04 | 1.43E-04 | 7.73E-05 |
| 2651 | 257942.9 | 4086040 | 9.18E-04 | 1.40E-04 | 7.57E-05 |
| 2652 | 257967.2 | 4086039 | 9.01E-04 | 1.37E-04 | 7.42E-05 |
| 2653 | 257991.5 | 4086038 | 8.84E-04 | 1.35E-04 | 7.29E-05 |
| 2654 | 258015.8 | 4086036 | 8.69E-04 | 1.32E-04 | 7.16E-05 |
| 2655 | 258040.1 | 4086035 | 8.53E-04 | 1.30E-04 | 7.03E-05 |
| 2656 | 258064.3 | 4086034 | 8.38E-04 | 1.28E-04 | 6.91E-05 |
| 2657 | 258088.6 | 4086033 | 8.21E-04 | 1.25E-04 | 6.77E-05 |
| 2658 | 258112.9 | 4086032 | 8.04E-04 | 1.22E-04 | 6.62E-05 |
| 2659 | 258137.2 | 4086031 | 7.85E-04 | 1.20E-04 | 6.47E-05 |
| 2660 | 258161.5 | 4086030 | 7.65E-04 | 1.17E-04 | 6.31E-05 |
| 2661 | 258185.8 | 4086029 | 7.44E-04 | 1.13E-04 | 6.14E-05 |
| 2662 | 258210 | 4086028 | 7.24E-04 | 1.10E-04 | 5.97E-05 |
| 2663 | 258234.3 | 4086027 | 7.03E-04 | 1.07E-04 | 5.80E-05 |
| 2664 | 258258.6 | 4086026 | 6.83E-04 | 1.04E-04 | 5.63E-05 |
| 2665 | 258282.9 | 4086025 | 6.63E-04 | 1.01E-04 | 5.46E-05 |
| 2666 | 258307.2 | 4086024 | 6.43E-04 | 9.80E-05 | 5.30E-05 |
| 2667 | 258331.4 | 4086022 | 6.24E-04 | 9.50E-05 | 5.14E-05 |
| 2668 | 258355.7 | 4086021 | 6.05E-04 | 9.22E-05 | 4.99E-05 |
| 2669 | 258380 | 4086020 | 5.86E-04 | 8.93E-05 | 4.83E-05 |
| 2670 | 258404.3 | 4086019 | 5.69E-04 | 8.66E-05 | 4.69E-05 |
| 2671 | 257589.1 | 4086246 | 8.66E-04 | 1.32E-04 | 7.13E-05 |
| 2672 | 257566.5 | 4086238 | 8.84E-04 | 1.35E-04 | 7.28E-05 |

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| 2579 | 258371.2 | 4085821 | 8.03E-04 | 1.22E-04 | 6.62E-05 |
| 2580 | 258395.4 | 4085819 | 7.72E-04 | 1.18E-04 | 6.36E-05 |
| 2581 | 257580.6 | 4086047 | 1.18E-03 | 1.80E-04 | 9.75E-05 |
| 2582 | 257558.2 | 4086038 | 1.21E-03 | 1.84E-04 | 9.95E-05 |
| 2583 | 257535.8 | 4086030 | 1.23E-03 | 1.88E-04 | 1.01E-04 |
| 2584 | 257513.4 | 4086022 | 1.25E-03 | 1.91E-04 | 1.03E-04 |
| 2585 | 257490.9 | 4086014 | 1.27E-03 | 1.93E-04 | 1.05E-04 |
| 2586 | 257468.5 | 4086006 | 1.29E-03 | 1.96E-04 | 1.06E-04 |
| 2587 | 257446.1 | 4085997 | 1.30E-03 | 1.99E-04 | 1.08E-04 |
| 2588 | 257423.7 | 4085989 | 1.32E-03 | 2.01E-04 | 1.09E-04 |
| 2589 | 257401.3 | 4085981 | 1.34E-03 | 2.03E-04 | 1.10E-04 |
| 2590 | 257378.9 | 4085973 | 1.35E-03 | 2.06E-04 | 1.11E-04 |
| 2591 | 257356.5 | 4085965 | 1.36E-03 | 2.08E-04 | 1.13E-04 |
| 2592 | 257334.1 | 4085956 | 1.38E-03 | 2.10E-04 | 1.14E-04 |
| 2593 | 257311.7 | 4085948 | 1.39E-03 | 2.12E-04 | 1.15E-04 |
| 2594 | 257289.3 | 4085940 | 1.41E-03 | 2.15E-04 | 1.16E-04 |
| 2595 | 257266.9 | 4085932 | 1.42E-03 | 2.17E-04 | 1.17E-04 |
| 2596 | 257244.5 | 4085924 | 1.44E-03 | 2.19E-04 | 1.18E-04 |
| 2597 | 257222.1 | 4085916 | 1.45E-03 | 2.20E-04 | 1.19E-04 |
| 2598 | 257199.6 | 4085907 | 1.45E-03 | 2.21E-04 | 1.20E-04 |
| 2599 | 257177.2 | 4085899 | 1.46E-03 | 2.22E-04 | 1.20E-04 |
| 2600 | 257154.8 | 4085891 | 1.45E-03 | 2.22E-04 | 1.20E-04 |
| 2601 | 257132.4 | 4085883 | 1.45E-03 | 2.21E-04 | 1.19E-04 |
| 2602 | 257110 | 4085875 | 1.44E-03 | 2.20E-04 | 1.19E-04 |
| 2603 | 257087.6 | 4085866 | 1.44E-03 | 2.19E-04 | 1.18E-04 |
| 2604 | 257065.2 | 4085858 | 1.43E-03 | 2.17E-04 | 1.18E-04 |
| 2605 | 257042.8 | 4085850 | 1.42E-03 | 2.16E-04 | 1.17E-04 |
| 2606 | 257020.4 | 4085842 | 1.41E-03 | 2.15E-04 | 1.16E-04 |
| 2607 | 256998 | 4085834 | 1.40E-03 | 2.14E-04 | 1.16E-04 |
| 2608 | 256975.6 | 4085826 | 1.39E-03 | 2.12E-04 | 1.15E-04 |
| 2609 | 256943.2 | 4085796 | 1.40E-03 | 2.14E-04 | 1.16E-04 |
| 2610 | 256933.2 | 4085774 | 1.42E-03 | 2.16E-04 | 1.17E-04 |
| 2611 | 256923.2 | 4085752 | 1.44E-03 | 2.19E-04 | 1.18E-04 |
| 2612 | 256913.2 | 4085731 | 1.44E-03 | 2.20E-04 | 1.19E-04 |
| 2613 | 256903.3 | 4085709 | 1.45E-03 | 2.20E-04 | 1.19E-04 |
| 2614 | 256893.3 | 4085687 | 1.44E-03 | 2.19E-04 | 1.19E-04 |
| 2615 | 256883.3 | 4085666 | 1.42E-03 | 2.17E-04 | 1.17E-04 |
| 2616 | 256873.3 | 4085644 | 1.40E-03 | 2.14E-04 | 1.16E-04 |
| 2617 | 256863.4 | 4085622 | 1.37E-03 | 2.09E-04 | 1.13E-04 |
| 2618 | 256853.4 | 4085601 | 1.33E-03 | 2.02E-04 | 1.10E-04 |
| 2619 | 256843.4 | 4085579 | 1.28E-03 | 1.95E-04 | 1.06E-04 |
| 2620 | 256833.4 | 4085557 | 1.22E-03 | 1.87E-04 | 1.01E-04 |
| 2621 | 256823.4 | 4085536 | 1.16E-03 | 1.77E-04 | 9.58E-05 |
| 2622 | 256813.5 | 4085514 | 1.10E-03 | 1.67E-04 | 9.04E-05 |
| 2623 | 256803.5 | 4085492 | 1.03E-03 | 1.57E-04 | 8.47E-05 |
| 2624 | 256793.5 | 4085471 | 9.59E-04 | 1.46E-04 | 7.91E-05 |
| 2625 | 256783.5 | 4085449 | 8.93E-04 | 1.36E-04 | 7.36E-05 |

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| 2532 | 257010.4 | 4085500 | 1.74E-03 | 2.66E-04 | 1.44E-04 |
| 2533 | 257000.6 | 4085479 | 1.67E-03 | 2.55E-04 | 1.38E-04 |
| 2534 | 256990.9 | 4085458 | 1.59E-03 | 2.42E-04 | 1.31E-04 |
| 2535 | 256981.1 | 4085437 | 1.50E-03 | 2.29E-04 | 1.24E-04 |
| 2536 | 256971.3 | 4085415 | 1.40E-03 | 2.14E-04 | 1.16E-04 |
| 2537 | 256961.5 | 4085394 | 1.30E-03 | 1.99E-04 | 1.07E-04 |
| 2538 | 256951.7 | 4085373 | 1.21E-03 | 1.84E-04 | 9.95E-05 |
| 2539 | 256941.9 | 4085352 | 1.11E-03 | 1.70E-04 | 9.19E-05 |
| 2540 | 256932.1 | 4085330 | 1.03E-03 | 1.57E-04 | 8.50E-05 |
| 2541 | 256922.4 | 4085309 | 9.56E-04 | 1.46E-04 | 7.88E-05 |
| 2542 | 256912.6 | 4085288 | 8.93E-04 | 1.36E-04 | 7.36E-05 |
| 2543 | 256902.8 | 4085267 | 8.39E-04 | 1.28E-04 | 6.91E-05 |
| 2544 | 256893 | 4085245 | 7.94E-04 | 1.21E-04 | 6.54E-05 |
| 2545 | 256883.2 | 4085224 | 7.57E-04 | 1.15E-04 | 6.24E-05 |
| 2546 | 256873.4 | 4085203 | 7.25E-04 | 1.10E-04 | 5.98E-05 |
| 2547 | 257594.1 | 4085855 | 1.71E-03 | 2.60E-04 | 1.41E-04 |
| 2548 | 257618.4 | 4085854 | 1.71E-03 | 2.60E-04 | 1.41E-04 |
| 2549 | 257642.7 | 4085853 | 1.70E-03 | 2.59E-04 | 1.40E-04 |
| 2550 | 257667 | 4085852 | 1.69E-03 | 2.58E-04 | 1.40E-04 |
| 2551 | 257691.3 | 4085851 | 1.68E-03 | 2.57E-04 | 1.39E-04 |
| 2552 | 257715.5 | 4085850 | 1.67E-03 | 2.54E-04 | 1.38E-04 |
| 2553 | 257739.8 | 4085848 | 1.65E-03 | 2.52E-04 | 1.36E-04 |
| 2554 | 257764.1 | 4085847 | 1.62E-03 | 2.47E-04 | 1.34E-04 |
| 2555 | 257788.4 | 4085846 | 1.60E-03 | 2.44E-04 | 1.32E-04 |
| 2556 | 257812.7 | 4085845 | 1.57E-03 | 2.39E-04 | 1.30E-04 |
| 2557 | 257837 | 4085844 | 1.54E-03 | 2.35E-04 | 1.27E-04 |
| 2558 | 257861.2 | 4085843 | 1.51E-03 | 2.30E-04 | 1.25E-04 |
| 2559 | 257885.5 | 4085842 | 1.48E-03 | 2.26E-04 | 1.22E-04 |
| 2560 | 257909.8 | 4085841 | 1.45E-03 | 2.21E-04 | 1.19E-04 |
| 2561 | 257934.1 | 4085840 | 1.41E-03 | 2.15E-04 | 1.17E-04 |
| 2562 | 257958.4 | 4085839 | 1.38E-03 | 2.10E-04 | 1.14E-04 |
| 2563 | 257982.6 | 4085838 | 1.35E-03 | 2.05E-04 | 1.11E-04 |
| 2564 | 258006.9 | 4085837 | 1.31E-03 | 2.00E-04 | 1.08E-04 |
| 2565 | 258031.2 | 4085836 | 1.28E-03 | 1.95E-04 | 1.06E-04 |
| 2566 | 258055.5 | 4085834 | 1.25E-03 | 1.90E-04 | 1.03E-04 |
| 2567 | 258079.8 | 4085833 | 1.22E-03 | 1.85E-04 | 1.00E-04 |
| 2568 | 258104.1 | 4085832 | 1.18E-03 | 1.80E-04 | 9.76E-05 |
| 2569 | 258128.3 | 4085831 | 1.15E-03 | 1.75E-04 | 9.48E-05 |
| 2570 | 258152.6 | 4085830 | 1.12E-03 | 1.70E-04 | 9.20E-05 |
| 2571 | 258176.9 | 4085829 | 1.08E-03 | 1.65E-04 | 8.91E-05 |
| 2572 | 258201.2 | 4085828 | 1.05E-03 | 1.59E-04 | 8.62E-05 |
| 2573 | 258225.5 | 4085827 | 1.01E-03 | 1.54E-04 | 8.32E-05 |
| 2574 | 258249.7 | 4085826 | 9.73E-04 | 1.48E-04 | 8.02E-05 |
| 2575 | 258274 | 4085825 | 9.38E-04 | 1.43E-04 | 7.73E-05 |
| 2576 | 258298.3 | 4085824 | 9.03E-04 | 1.38E-04 | 7.44E-05 |
| 2577 | 258322.6 | 4085823 | 8.69E-04 | 1.32E-04 | 7.16E-05 |
| 2578 | 258346.9 | 4085822 | 8.36E-04 | 1.27E-04 | 6.89E-05 |

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| 2485 | 257978.2 | 4085738 | 1.76E-03 | 2.68E-04 | 1.45E-04 |
| 2486 | 258002.5 | 4085737 | 1.71E-03 | 2.60E-04 | 1.41E-04 |
| 2487 | 258026.8 | 4085736 | 1.66E-03 | 2.53E-04 | 1.37E-04 |
| 2488 | 258051.1 | 4085735 | 1.61E-03 | 2.45E-04 | 1.32E-04 |
| 2489 | 258075.3 | 4085734 | 1.56E-03 | 2.37E-04 | 1.28E-04 |
| 2490 | 258099.6 | 4085732 | 1.51E-03 | 2.30E-04 | 1.24E-04 |
| 2491 | 258123.9 | 4085731 | 1.46E-03 | 2.23E-04 | 1.20E-04 |
| 2492 | 258148.2 | 4085730 | 1.41E-03 | 2.15E-04 | 1.17E-04 |
| 2493 | 258172.5 | 4085729 | 1.37E-03 | 2.08E-04 | 1.13E-04 |
| 2494 | 258196.8 | 4085728 | 1.32E-03 | 2.01E-04 | 1.09E-04 |
| 2495 | 258221 | 4085727 | 1.27E-03 | 1.93E-04 | 1.04E-04 |
| 2496 | 258245.3 | 4085726 | 1.22E-03 | 1.85E-04 | 1.00E-04 |
| 2497 | 258269.6 | 4085725 | 1.17E-03 | 1.78E-04 | 9.61E-05 |
| 2498 | 258293.9 | 4085724 | 1.12E-03 | 1.70E-04 | 9.20E-05 |
| 2499 | 258318.2 | 4085723 | 1.07E-03 | 1.63E-04 | 8.80E-05 |
| 2500 | 258342.4 | 4085722 | 1.02E-03 | 1.56E-04 | 8.41E-05 |
| 2501 | 258366.7 | 4085721 | 9.75E-04 | 1.49E-04 | 8.04E-05 |
| 2502 | 258391 | 4085720 | 9.32E-04 | 1.42E-04 | 7.68E-05 |
| 2503 | 257572.2 | 4085847 | 1.74E-03 | 2.65E-04 | 1.43E-04 |
| 2504 | 257550.2 | 4085839 | 1.77E-03 | 2.70E-04 | 1.46E-04 |
| 2505 | 257528.2 | 4085831 | 1.80E-03 | 2.75E-04 | 1.49E-04 |
| 2506 | 257506.2 | 4085823 | 1.83E-03 | 2.79E-04 | 1.51E-04 |
| 2507 | 257484.3 | 4085815 | 1.86E-03 | 2.83E-04 | 1.53E-04 |
| 2508 | 257462.3 | 4085807 | 1.89E-03 | 2.87E-04 | 1.55E-04 |
| 2509 | 257440.3 | 4085799 | 1.91E-03 | 2.91E-04 | 1.57E-04 |
| 2510 | 257418.3 | 4085791 | 1.93E-03 | 2.94E-04 | 1.59E-04 |
| 2511 | 257396.4 | 4085783 | 1.95E-03 | 2.98E-04 | 1.61E-04 |
| 2512 | 257374.4 | 4085775 | 1.97E-03 | 3.01E-04 | 1.63E-04 |
| 2513 | 257352.4 | 4085767 | 1.99E-03 | 3.03E-04 | 1.64E-04 |
| 2514 | 257330.4 | 4085759 | 2.01E-03 | 3.06E-04 | 1.65E-04 |
| 2515 | 257308.5 | 4085751 | 2.02E-03 | 3.08E-04 | 1.66E-04 |
| 2516 | 257286.5 | 4085743 | 2.02E-03 | 3.08E-04 | 1.67E-04 |
| 2517 | 257264.5 | 4085735 | 2.02E-03 | 3.08E-04 | 1.67E-04 |
| 2518 | 257242.5 | 4085726 | 2.01E-03 | 3.07E-04 | 1.66E-04 |
| 2519 | 257220.6 | 4085718 | 2.00E-03 | 3.05E-04 | 1.65E-04 |
| 2520 | 257198.6 | 4085710 | 1.98E-03 | 3.02E-04 | 1.64E-04 |
| 2521 | 257176.6 | 4085702 | 1.96E-03 | 2.99E-04 | 1.62E-04 |
| 2522 | 257154.6 | 4085694 | 1.94E-03 | 2.95E-04 | 1.60E-04 |
| 2523 | 257132.7 | 4085686 | 1.91E-03 | 2.91E-04 | 1.58E-04 |
| 2524 | 257110.7 | 4085678 | 1.88E-03 | 2.87E-04 | 1.55E-04 |
| 2525 | 257078.9 | 4085649 | 1.87E-03 | 2.86E-04 | 1.55E-04 |
| 2526 | 257069.1 | 4085628 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 2527 | 257059.4 | 4085607 | 1.89E-03 | 2.89E-04 | 1.56E-04 |
| 2528 | 257049.6 | 4085585 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 2529 | 257039.8 | 4085564 | 1.87E-03 | 2.85E-04 | 1.54E-04 |
| 2530 | 257030 | 4085543 | 1.84E-03 | 2.81E-04 | 1.52E-04 |
| 2531 | 257020.2 | 4085522 | 1.80E-03 | 2.74E-04 | 1.48E-04 |

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| 2438 | 257452.9 | 4085705 | 2.38E-03 | 3.63E-04 | 1.96E-04 |
| 2439 | 257430.1 | 4085697 | 2.41E-03 | 3.67E-04 | 1.99E-04 |
| 2440 | 257407.3 | 4085688 | 2.43E-03 | 3.70E-04 | 2.00E-04 |
| 2441 | 257384.5 | 4085680 | 2.45E-03 | 3.73E-04 | 2.02E-04 |
| 2442 | 257361.7 | 4085672 | 2.46E-03 | 3.75E-04 | 2.03E-04 |
| 2443 | 257338.9 | 4085663 | 2.47E-03 | 3.76E-04 | 2.04E-04 |
| 2444 | 257316.1 | 4085655 | 2.47E-03 | 3.76E-04 | 2.03E-04 |
| 2445 | 257293.3 | 4085647 | 2.46E-03 | 3.74E-04 | 2.02E-04 |
| 2446 | 257270.5 | 4085638 | 2.43E-03 | 3.70E-04 | 2.00E-04 |
| 2447 | 257247.7 | 4085630 | 2.39E-03 | 3.65E-04 | 1.97E-04 |
| 2448 | 257224.9 | 4085622 | 2.35E-03 | 3.59E-04 | 1.94E-04 |
| 2449 | 257202.1 | 4085613 | 2.31E-03 | 3.52E-04 | 1.90E-04 |
| 2450 | 257179.3 | 4085605 | 2.26E-03 | 3.44E-04 | 1.86E-04 |
| 2451 | 257146.3 | 4085575 | 2.23E-03 | 3.40E-04 | 1.84E-04 |
| 2452 | 257136.2 | 4085553 | 2.24E-03 | 3.41E-04 | 1.85E-04 |
| 2453 | 257126 | 4085531 | 2.24E-03 | 3.41E-04 | 1.84E-04 |
| 2454 | 257115.9 | 4085509 | 2.22E-03 | 3.37E-04 | 1.83E-04 |
| 2455 | 257105.7 | 4085487 | 2.18E-03 | 3.32E-04 | 1.79E-04 |
| 2456 | 257095.6 | 4085464 | 2.12E-03 | 3.23E-04 | 1.75E-04 |
| 2457 | 257085.4 | 4085442 | 2.04E-03 | 3.11E-04 | 1.68E-04 |
| 2458 | 257075.3 | 4085420 | 1.94E-03 | 2.96E-04 | 1.60E-04 |
| 2459 | 257065.1 | 4085398 | 1.83E-03 | 2.78E-04 | 1.51E-04 |
| 2460 | 257055 | 4085376 | 1.70E-03 | 2.59E-04 | 1.40E-04 |
| 2461 | 257044.8 | 4085354 | 1.57E-03 | 2.39E-04 | 1.29E-04 |
| 2462 | 257034.7 | 4085332 | 1.44E-03 | 2.20E-04 | 1.19E-04 |
| 2463 | 257024.5 | 4085310 | 1.32E-03 | 2.01E-04 | 1.09E-04 |
| 2464 | 257014.3 | 4085288 | 1.21E-03 | 1.84E-04 | 9.97E-05 |
| 2465 | 257004.2 | 4085266 | 1.11E-03 | 1.70E-04 | 9.18E-05 |
| 2466 | 256994 | 4085244 | 1.03E-03 | 1.57E-04 | 8.50E-05 |
| 2467 | 256983.9 | 4085222 | 9.63E-04 | 1.47E-04 | 7.94E-05 |
| 2468 | 256973.7 | 4085200 | 9.07E-04 | 1.38E-04 | 7.48E-05 |
| 2469 | 257589.7 | 4085755 | 2.15E-03 | 3.28E-04 | 1.78E-04 |
| 2470 | 257614 | 4085754 | 2.16E-03 | 3.28E-04 | 1.78E-04 |
| 2471 | 257638.3 | 4085753 | 2.16E-03 | 3.28E-04 | 1.78E-04 |
| 2472 | 257662.6 | 4085752 | 2.15E-03 | 3.28E-04 | 1.77E-04 |
| 2473 | 257686.8 | 4085751 | 2.14E-03 | 3.26E-04 | 1.77E-04 |
| 2474 | 257711.1 | 4085750 | 2.13E-03 | 3.24E-04 | 1.75E-04 |
| 2475 | 257735.4 | 4085749 | 2.11E-03 | 3.22E-04 | 1.74E-04 |
| 2476 | 257759.7 | 4085747 | 2.09E-03 | 3.18E-04 | 1.72E-04 |
| 2477 | 257784 | 4085746 | 2.07E-03 | 3.15E-04 | 1.70E-04 |
| 2478 | 257808.2 | 4085745 | 2.03E-03 | 3.10E-04 | 1.68E-04 |
| 2479 | 257832.5 | 4085744 | 2.00E-03 | 3.04E-04 | 1.65E-04 |
| 2480 | 257856.8 | 4085743 | 1.96E-03 | 2.99E-04 | 1.62E-04 |
| 2481 | 257881.1 | 4085742 | 1.93E-03 | 2.94E-04 | 1.59E-04 |
| 2482 | 257905.4 | 4085741 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 2483 | 257929.7 | 4085740 | 1.85E-03 | 2.82E-04 | 1.53E-04 |
| 2484 | 257953.9 | 4085739 | 1.81E-03 | 2.75E-04 | 1.49E-04 |

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| 2391 | 257143.9 | 4085349 | 2.22E-03 | 3.39E-04 | 1.83E-04 |
| 2392 | 257133.8 | 4085327 | 2.06E-03 | 3.14E-04 | 1.70E-04 |
| 2393 | 257123.8 | 4085305 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 2394 | 257113.7 | 4085283 | 1.72E-03 | 2.62E-04 | 1.42E-04 |
| 2395 | 257103.7 | 4085261 | 1.56E-03 | 2.38E-04 | 1.29E-04 |
| 2396 | 257093.7 | 4085240 | 1.42E-03 | 2.17E-04 | 1.17E-04 |
| 2397 | 257083.6 | 4085218 | 1.30E-03 | 1.99E-04 | 1.07E-04 |
| 2398 | 257073.6 | 4085196 | 1.20E-03 | 1.83E-04 | 9.92E-05 |
| 2399 | 257585.3 | 4085655 | 2.82E-03 | 4.30E-04 | 2.33E-04 |
| 2400 | 257609.6 | 4085654 | 2.84E-03 | 4.32E-04 | 2.34E-04 |
| 2401 | 257633.9 | 4085653 | 2.84E-03 | 4.33E-04 | 2.34E-04 |
| 2402 | 257658.1 | 4085652 | 2.84E-03 | 4.33E-04 | 2.34E-04 |
| 2403 | 257682.4 | 4085651 | 2.84E-03 | 4.32E-04 | 2.34E-04 |
| 2404 | 257706.7 | 4085650 | 2.82E-03 | 4.30E-04 | 2.33E-04 |
| 2405 | 257731 | 4085649 | 2.81E-03 | 4.28E-04 | 2.31E-04 |
| 2406 | 257755.3 | 4085648 | 2.79E-03 | 4.24E-04 | 2.30E-04 |
| 2407 | 257779.5 | 4085647 | 2.76E-03 | 4.21E-04 | 2.28E-04 |
| 2408 | 257803.8 | 4085645 | 2.73E-03 | 4.16E-04 | 2.25E-04 |
| 2409 | 257828.1 | 4085644 | 2.70E-03 | 4.12E-04 | 2.23E-04 |
| 2410 | 257852.4 | 4085643 | 2.67E-03 | 4.07E-04 | 2.20E-04 |
| 2411 | 257876.7 | 4085642 | 2.63E-03 | 4.00E-04 | 2.17E-04 |
| 2412 | 257901 | 4085641 | 2.58E-03 | 3.93E-04 | 2.13E-04 |
| 2413 | 257925.2 | 4085640 | 2.53E-03 | 3.86E-04 | 2.09E-04 |
| 2414 | 257949.5 | 4085639 | 2.48E-03 | 3.77E-04 | 2.04E-04 |
| 2415 | 257973.8 | 4085638 | 2.41E-03 | 3.68E-04 | 1.99E-04 |
| 2416 | 257998.1 | 4085637 | 2.35E-03 | 3.58E-04 | 1.94E-04 |
| 2417 | 258022.4 | 4085636 | 2.28E-03 | 3.47E-04 | 1.88E-04 |
| 2418 | 258046.6 | 4085635 | 2.20E-03 | 3.35E-04 | 1.81E-04 |
| 2419 | 258070.9 | 4085634 | 2.12E-03 | 3.23E-04 | 1.75E-04 |
| 2420 | 258095.2 | 4085633 | 2.04E-03 | 3.11E-04 | 1.68E-04 |
| 2421 | 258119.5 | 4085631 | 1.97E-03 | 3.00E-04 | 1.62E-04 |
| 2422 | 258143.8 | 4085630 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 2423 | 258168.1 | 4085629 | 1.82E-03 | 2.77E-04 | 1.50E-04 |
| 2424 | 258192.3 | 4085628 | 1.75E-03 | 2.66E-04 | 1.44E-04 |
| 2425 | 258216.6 | 4085627 | 1.66E-03 | 2.53E-04 | 1.37E-04 |
| 2426 | 258240.9 | 4085626 | 1.59E-03 | 2.42E-04 | 1.31E-04 |
| 2427 | 258265.2 | 4085625 | 1.51E-03 | 2.31E-04 | 1.25E-04 |
| 2428 | 258289.5 | 4085624 | 1.44E-03 | 2.19E-04 | 1.19E-04 |
| 2429 | 258313.7 | 4085623 | 1.37E-03 | 2.09E-04 | 1.13E-04 |
| 2430 | 258338 | 4085622 | 1.30E-03 | 1.98E-04 | 1.07E-04 |
| 2431 | 258362.3 | 4085621 | 1.23E-03 | 1.88E-04 | 1.02E-04 |
| 2432 | 258386.6 | 4085620 | 1.18E-03 | 1.79E-04 | 9.69E-05 |
| 2433 | 257566.9 | 4085747 | 2.20E-03 | 3.35E-04 | 1.81E-04 |
| 2434 | 257544.1 | 4085738 | 2.24E-03 | 3.41E-04 | 1.85E-04 |
| 2435 | 257521.3 | 4085730 | 2.28E-03 | 3.48E-04 | 1.88E-04 |
| 2436 | 257498.5 | 4085722 | 2.32E-03 | 3.53E-04 | 1.91E-04 |
| 2437 | 257475.7 | 4085713 | 2.35E-03 | 3.58E-04 | 1.94E-04 |

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| 2344 | 257799.4 | 4085546 | 3.88E-03 | 5.91E-04 | 3.20E-04 |
| 2345 | 257823.7 | 4085544 | 3.84E-03 | 5.86E-04 | 3.17E-04 |
| 2346 | 257848 | 4085543 | 3.80E-03 | 5.79E-04 | 3.13E-04 |
| 2347 | 257872.2 | 4085542 | 3.75E-03 | 5.72E-04 | 3.09E-04 |
| 2348 | 257896.5 | 4085541 | 3.70E-03 | 5.63E-04 | 3.05E-04 |
| 2349 | 257920.8 | 4085540 | 3.63E-03 | 5.53E-04 | 2.99E-04 |
| 2350 | 257945.1 | 4085539 | 3.56E-03 | 5.42E-04 | 2.93E-04 |
| 2351 | 257969.4 | 4085538 | 3.48E-03 | 5.29E-04 | 2.86E-04 |
| 2352 | 257993.7 | 4085537 | 3.39E-03 | 5.16E-04 | 2.79E-04 |
| 2353 | 258017.9 | 4085536 | 3.29E-03 | 5.01E-04 | 2.71E-04 |
| 2354 | 258042.2 | 4085535 | 3.18E-03 | 4.84E-04 | 2.62E-04 |
| 2355 | 258066.5 | 4085534 | 3.07E-03 | 4.67E-04 | 2.53E-04 |
| 2356 | 258090.8 | 4085533 | 2.94E-03 | 4.49E-04 | 2.43E-04 |
| 2357 | 258115.1 | 4085532 | 2.82E-03 | 4.30E-04 | 2.32E-04 |
| 2358 | 258139.3 | 4085530 | 2.70E-03 | 4.11E-04 | 2.22E-04 |
| 2359 | 258163.6 | 4085529 | 2.57E-03 | 3.92E-04 | 2.12E-04 |
| 2360 | 258187.9 | 4085528 | 2.46E-03 | 3.74E-04 | 2.02E-04 |
| 2361 | 258212.2 | 4085527 | 2.34E-03 | 3.56E-04 | 1.93E-04 |
| 2362 | 258236.5 | 4085526 | 2.22E-03 | 3.39E-04 | 1.83E-04 |
| 2363 | 258260.8 | 4085525 | 2.11E-03 | 3.21E-04 | 1.74E-04 |
| 2364 | 258285 | 4085524 | 1.99E-03 | 3.03E-04 | 1.64E-04 |
| 2365 | 258309.3 | 4085523 | 1.88E-03 | 2.86E-04 | 1.55E-04 |
| 2366 | 258333.6 | 4085522 | 1.76E-03 | 2.69E-04 | 1.45E-04 |
| 2367 | 258357.9 | 4085521 | 1.66E-03 | 2.53E-04 | 1.37E-04 |
| 2368 | 258382.2 | 4085520 | 1.56E-03 | 2.38E-04 | 1.29E-04 |
| 2369 | 257562.7 | 4085647 | 2.88E-03 | 4.39E-04 | 2.37E-04 |
| 2370 | 257540.2 | 4085639 | 2.93E-03 | 4.47E-04 | 2.42E-04 |
| 2371 | 257517.6 | 4085630 | 2.98E-03 | 4.54E-04 | 2.46E-04 |
| 2372 | 257495 | 4085622 | 3.02E-03 | 4.60E-04 | 2.49E-04 |
| 2373 | 257472.5 | 4085614 | 3.05E-03 | 4.65E-04 | 2.52E-04 |
| 2374 | 257449.9 | 4085606 | 3.08E-03 | 4.69E-04 | 2.54E-04 |
| 2375 | 257427.3 | 4085597 | 3.10E-03 | 4.73E-04 | 2.56E-04 |
| 2376 | 257404.8 | 4085589 | 3.11E-03 | 4.74E-04 | 2.57E-04 |
| 2377 | 257382.2 | 4085581 | 3.11E-03 | 4.74E-04 | 2.56E-04 |
| 2378 | 257359.7 | 4085573 | 3.09E-03 | 4.71E-04 | 2.55E-04 |
| 2379 | 257337.1 | 4085564 | 3.06E-03 | 4.66E-04 | 2.52E-04 |
| 2380 | 257314.5 | 4085556 | 3.01E-03 | 4.58E-04 | 2.48E-04 |
| 2381 | 257292 | 4085548 | 2.95E-03 | 4.49E-04 | 2.43E-04 |
| 2382 | 257269.4 | 4085540 | 2.87E-03 | 4.38E-04 | 2.37E-04 |
| 2383 | 257246.8 | 4085531 | 2.79E-03 | 4.26E-04 | 2.30E-04 |
| 2384 | 257214.2 | 4085501 | 2.73E-03 | 4.16E-04 | 2.25E-04 |
| 2385 | 257204.2 | 4085480 | 2.73E-03 | 4.16E-04 | 2.25E-04 |
| 2386 | 257194.1 | 4085458 | 2.71E-03 | 4.13E-04 | 2.23E-04 |
| 2387 | 257184.1 | 4085436 | 2.67E-03 | 4.07E-04 | 2.20E-04 |
| 2388 | 257174 | 4085414 | 2.60E-03 | 3.96E-04 | 2.14E-04 |
| 2389 | 257164 | 4085392 | 2.50E-03 | 3.81E-04 | 2.06E-04 |
| 2390 | 257153.9 | 4085370 | 2.37E-03 | 3.62E-04 | 1.96E-04 |

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| 2297 | 258062.1 | 4085434 | 4.81E-03 | 7.33E-04 | 3.96E-04 |
| 2298 | 258086.4 | 4085433 | 4.63E-03 | 7.06E-04 | 3.82E-04 |
| 2299 | 258110.6 | 4085432 | 4.44E-03 | 6.77E-04 | 3.66E-04 |
| 2300 | 258134.9 | 4085431 | 4.24E-03 | 6.46E-04 | 3.49E-04 |
| 2301 | 258159.2 | 4085430 | 4.03E-03 | 6.14E-04 | 3.32E-04 |
| 2302 | 258183.5 | 4085428 | 3.81E-03 | 5.81E-04 | 3.14E-04 |
| 2303 | 258207.8 | 4085427 | 3.60E-03 | 5.49E-04 | 2.97E-04 |
| 2304 | 258232 | 4085426 | 3.39E-03 | 5.17E-04 | 2.80E-04 |
| 2305 | 258256.3 | 4085425 | 3.19E-03 | 4.86E-04 | 2.63E-04 |
| 2306 | 258280.6 | 4085424 | 2.98E-03 | 4.54E-04 | 2.46E-04 |
| 2307 | 258304.9 | 4085423 | 2.78E-03 | 4.23E-04 | 2.29E-04 |
| 2308 | 258329.2 | 4085422 | 2.58E-03 | 3.93E-04 | 2.13E-04 |
| 2309 | 258353.5 | 4085421 | 2.39E-03 | 3.65E-04 | 1.97E-04 |
| 2310 | 258377.7 | 4085420 | 2.22E-03 | 3.38E-04 | 1.83E-04 |
| 2311 | 257558.6 | 4085547 | 3.93E-03 | 5.98E-04 | 3.24E-04 |
| 2312 | 257536.4 | 4085539 | 4.00E-03 | 6.09E-04 | 3.30E-04 |
| 2313 | 257514.2 | 4085531 | 4.04E-03 | 6.16E-04 | 3.33E-04 |
| 2314 | 257492 | 4085523 | 4.07E-03 | 6.20E-04 | 3.35E-04 |
| 2315 | 257469.8 | 4085515 | 4.08E-03 | 6.22E-04 | 3.36E-04 |
| 2316 | 257447.6 | 4085507 | 4.08E-03 | 6.21E-04 | 3.36E-04 |
| 2317 | 257425.3 | 4085498 | 4.05E-03 | 6.18E-04 | 3.34E-04 |
| 2318 | 257403.1 | 4085490 | 4.01E-03 | 6.11E-04 | 3.31E-04 |
| 2319 | 257380.9 | 4085482 | 3.94E-03 | 6.00E-04 | 3.25E-04 |
| 2320 | 257358.7 | 4085474 | 3.84E-03 | 5.86E-04 | 3.17E-04 |
| 2321 | 257336.5 | 4085466 | 3.73E-03 | 5.68E-04 | 3.07E-04 |
| 2322 | 257314.3 | 4085458 | 3.60E-03 | 5.48E-04 | 2.97E-04 |
| 2323 | 257282.2 | 4085428 | 3.48E-03 | 5.29E-04 | 2.86E-04 |
| 2324 | 257272.3 | 4085407 | 3.47E-03 | 5.28E-04 | 2.86E-04 |
| 2325 | 257262.4 | 4085385 | 3.42E-03 | 5.21E-04 | 2.82E-04 |
| 2326 | 257252.5 | 4085364 | 3.34E-03 | 5.09E-04 | 2.75E-04 |
| 2327 | 257242.6 | 4085342 | 3.21E-03 | 4.89E-04 | 2.65E-04 |
| 2328 | 257232.7 | 4085321 | 3.04E-03 | 4.63E-04 | 2.51E-04 |
| 2329 | 257222.8 | 4085299 | 2.84E-03 | 4.32E-04 | 2.34E-04 |
| 2330 | 257212.9 | 4085278 | 2.61E-03 | 3.97E-04 | 2.15E-04 |
| 2331 | 257203 | 4085256 | 2.37E-03 | 3.61E-04 | 1.95E-04 |
| 2332 | 257193.1 | 4085235 | 2.14E-03 | 3.26E-04 | 1.77E-04 |
| 2333 | 257183.2 | 4085213 | 1.93E-03 | 2.94E-04 | 1.59E-04 |
| 2334 | 257173.3 | 4085192 | 1.74E-03 | 2.65E-04 | 1.44E-04 |
| 2335 | 257580.9 | 4085555 | 3.86E-03 | 5.88E-04 | 3.18E-04 |
| 2336 | 257605.1 | 4085554 | 3.90E-03 | 5.94E-04 | 3.22E-04 |
| 2337 | 257629.4 | 4085553 | 3.93E-03 | 5.99E-04 | 3.24E-04 |
| 2338 | 257653.7 | 4085552 | 3.95E-03 | 6.02E-04 | 3.26E-04 |
| 2339 | 257678 | 4085551 | 3.96E-03 | 6.03E-04 | 3.26E-04 |
| 2340 | 257702.3 | 4085550 | 3.96E-03 | 6.03E-04 | 3.26E-04 |
| 2341 | 257726.6 | 4085549 | 3.94E-03 | 6.01E-04 | 3.25E-04 |
| 2342 | 257750.8 | 4085548 | 3.93E-03 | 5.98E-04 | 3.24E-04 |
| 2343 | 257775.1 | 4085547 | 3.91E-03 | 5.95E-04 | 3.22E-04 |

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| 2250 | 258181.3 | 4085378 | 5.01E-03 | 7.63E-04 | 4.13E-04 |
| 2251 | 258205.6 | 4085377 | 4.71E-03 | 7.18E-04 | 3.88E-04 |
| 2252 | 258229.8 | 4085376 | 4.41E-03 | 6.72E-04 | 3.64E-04 |
| 2253 | 258254.1 | 4085375 | 4.12E-03 | 6.27E-04 | 3.39E-04 |
| 2254 | 258278.4 | 4085374 | 3.83E-03 | 5.83E-04 | 3.16E-04 |
| 2255 | 258302.7 | 4085373 | 3.54E-03 | 5.39E-04 | 2.92E-04 |
| 2256 | 258327 | 4085372 | 3.26E-03 | 4.96E-04 | 2.68E-04 |
| 2257 | 258351.2 | 4085371 | 2.99E-03 | 4.55E-04 | 2.46E-04 |
| 2258 | 258375.5 | 4085370 | 2.74E-03 | 4.17E-04 | 2.26E-04 |
| 2259 | 257554.8 | 4085447 | 5.62E-03 | 8.56E-04 | 4.63E-04 |
| 2260 | 257533.1 | 4085439 | 5.65E-03 | 8.61E-04 | 4.66E-04 |
| 2261 | 257511.5 | 4085432 | 5.66E-03 | 8.62E-04 | 4.66E-04 |
| 2262 | 257489.8 | 4085424 | 5.63E-03 | 8.58E-04 | 4.64E-04 |
| 2263 | 257468.1 | 4085416 | 5.57E-03 | 8.49E-04 | 4.59E-04 |
| 2264 | 257446.5 | 4085408 | 5.47E-03 | 8.34E-04 | 4.51E-04 |
| 2265 | 257424.8 | 4085400 | 5.33E-03 | 8.13E-04 | 4.40E-04 |
| 2266 | 257403.2 | 4085392 | 5.15E-03 | 7.85E-04 | 4.25E-04 |
| 2267 | 257381.5 | 4085384 | 4.94E-03 | 7.52E-04 | 4.07E-04 |
| 2268 | 257350.2 | 4085355 | 4.72E-03 | 7.18E-04 | 3.89E-04 |
| 2269 | 257340.5 | 4085334 | 4.69E-03 | 7.14E-04 | 3.86E-04 |
| 2270 | 257330.9 | 4085313 | 4.59E-03 | 7.00E-04 | 3.78E-04 |
| 2271 | 257321.2 | 4085292 | 4.42E-03 | 6.74E-04 | 3.65E-04 |
| 2272 | 257311.6 | 4085271 | 4.18E-03 | 6.37E-04 | 3.44E-04 |
| 2273 | 257302 | 4085251 | 3.88E-03 | 5.90E-04 | 3.19E-04 |
| 2274 | 257292.3 | 4085230 | 3.53E-03 | 5.38E-04 | 2.91E-04 |
| 2275 | 257282.7 | 4085209 | 3.18E-03 | 4.85E-04 | 2.62E-04 |
| 2276 | 257273 | 4085188 | 2.84E-03 | 4.33E-04 | 2.34E-04 |
| 2277 | 257576.4 | 4085455 | 5.56E-03 | 8.47E-04 | 4.58E-04 |
| 2278 | 257600.7 | 4085454 | 5.68E-03 | 8.65E-04 | 4.68E-04 |
| 2279 | 257625 | 4085453 | 5.78E-03 | 8.80E-04 | 4.76E-04 |
| 2280 | 257649.3 | 4085452 | 5.85E-03 | 8.92E-04 | 4.82E-04 |
| 2281 | 257673.6 | 4085451 | 5.88E-03 | 8.96E-04 | 4.85E-04 |
| 2282 | 257697.8 | 4085450 | 5.91E-03 | 9.00E-04 | 4.87E-04 |
| 2283 | 257722.1 | 4085449 | 5.93E-03 | 9.04E-04 | 4.89E-04 |
| 2284 | 257746.4 | 4085448 | 5.94E-03 | 9.06E-04 | 4.90E-04 |
| 2285 | 257770.7 | 4085447 | 5.94E-03 | 9.05E-04 | 4.90E-04 |
| 2286 | 257795 | 4085446 | 5.92E-03 | 9.02E-04 | 4.88E-04 |
| 2287 | 257819.3 | 4085445 | 5.88E-03 | 8.96E-04 | 4.85E-04 |
| 2288 | 257843.5 | 4085443 | 5.83E-03 | 8.89E-04 | 4.81E-04 |
| 2289 | 257867.8 | 4085442 | 5.77E-03 | 8.79E-04 | 4.75E-04 |
| 2290 | 257892.1 | 4085441 | 5.69E-03 | 8.67E-04 | 4.69E-04 |
| 2291 | 257916.4 | 4085440 | 5.60E-03 | 8.53E-04 | 4.61E-04 |
| 2292 | 257940.7 | 4085439 | 5.50E-03 | 8.37E-04 | 4.53E-04 |
| 2293 | 257964.9 | 4085438 | 5.38E-03 | 8.20E-04 | 4.44E-04 |
| 2294 | 257989.2 | 4085437 | 5.26E-03 | 8.01E-04 | 4.33E-04 |
| 2295 | 258013.5 | 4085436 | 5.12E-03 | 7.80E-04 | 4.22E-04 |
| 2296 | 258037.8 | 4085435 | 4.97E-03 | 7.58E-04 | 4.10E-04 |

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| 2203 | 258203.3 | 4085327 | 6.47E-03 | 9.85E-04 | 5.33E-04 |
| 2204 | 258227.6 | 4085326 | 6.03E-03 | 9.18E-04 | 4.97E-04 |
| 2205 | 258251.9 | 4085325 | 5.58E-03 | 8.50E-04 | 4.60E-04 |
| 2206 | 258276.2 | 4085324 | 5.14E-03 | 7.83E-04 | 4.24E-04 |
| 2207 | 258300.5 | 4085323 | 4.71E-03 | 7.17E-04 | 3.88E-04 |
| 2208 | 258324.8 | 4085322 | 4.28E-03 | 6.52E-04 | 3.53E-04 |
| 2209 | 258349 | 4085321 | 3.87E-03 | 5.90E-04 | 3.19E-04 |
| 2210 | 258373.3 | 4085320 | 3.50E-03 | 5.33E-04 | 2.88E-04 |
| 2211 | 257551.7 | 4085397 | 6.85E-03 | 1.04E-03 | 5.65E-04 |
| 2212 | 257529.1 | 4085389 | 6.85E-03 | 1.04E-03 | 5.65E-04 |
| 2213 | 257506.5 | 4085381 | 6.80E-03 | 1.04E-03 | 5.61E-04 |
| 2214 | 257484 | 4085372 | 6.70E-03 | 1.02E-03 | 5.52E-04 |
| 2215 | 257461.4 | 4085364 | 6.53E-03 | 9.95E-04 | 5.38E-04 |
| 2216 | 257438.8 | 4085356 | 6.30E-03 | 9.59E-04 | 5.19E-04 |
| 2217 | 257416.3 | 4085348 | 6.00E-03 | 9.14E-04 | 4.95E-04 |
| 2218 | 257383.7 | 4085318 | 5.69E-03 | 8.67E-04 | 4.69E-04 |
| 2219 | 257373.6 | 4085296 | 5.63E-03 | 8.58E-04 | 4.64E-04 |
| 2220 | 257363.6 | 4085274 | 5.46E-03 | 8.32E-04 | 4.50E-04 |
| 2221 | 257353.5 | 4085252 | 5.17E-03 | 7.88E-04 | 4.26E-04 |
| 2222 | 257343.5 | 4085230 | 4.78E-03 | 7.28E-04 | 3.94E-04 |
| 2223 | 257333.4 | 4085209 | 4.33E-03 | 6.59E-04 | 3.57E-04 |
| 2224 | 257323.4 | 4085187 | 3.85E-03 | 5.87E-04 | 3.18E-04 |
| 2225 | 257574.2 | 4085405 | 6.81E-03 | 1.04E-03 | 5.61E-04 |
| 2226 | 257598.5 | 4085404 | 7.00E-03 | 1.07E-03 | 5.77E-04 |
| 2227 | 257622.8 | 4085403 | 7.17E-03 | 1.09E-03 | 5.91E-04 |
| 2228 | 257647.1 | 4085402 | 7.30E-03 | 1.11E-03 | 6.02E-04 |
| 2229 | 257671.4 | 4085401 | 7.41E-03 | 1.13E-03 | 6.11E-04 |
| 2230 | 257695.6 | 4085400 | 7.48E-03 | 1.14E-03 | 6.17E-04 |
| 2231 | 257719.9 | 4085399 | 7.50E-03 | 1.14E-03 | 6.19E-04 |
| 2232 | 257744.2 | 4085398 | 7.54E-03 | 1.15E-03 | 6.22E-04 |
| 2233 | 257768.5 | 4085397 | 7.56E-03 | 1.15E-03 | 6.23E-04 |
| 2234 | 257792.8 | 4085396 | 7.56E-03 | 1.15E-03 | 6.23E-04 |
| 2235 | 257817 | 4085395 | 7.53E-03 | 1.15E-03 | 6.21E-04 |
| 2236 | 257841.3 | 4085394 | 7.48E-03 | 1.14E-03 | 6.17E-04 |
| 2237 | 257865.6 | 4085392 | 7.42E-03 | 1.13E-03 | 6.11E-04 |
| 2238 | 257889.9 | 4085391 | 7.33E-03 | 1.12E-03 | 6.04E-04 |
| 2239 | 257914.2 | 4085390 | 7.23E-03 | 1.10E-03 | 5.96E-04 |
| 2240 | 257938.5 | 4085389 | 7.11E-03 | 1.08E-03 | 5.86E-04 |
| 2241 | 257962.7 | 4085388 | 6.98E-03 | 1.06E-03 | 5.75E-04 |
| 2242 | 257987 | 4085387 | 6.83E-03 | 1.04E-03 | 5.63E-04 |
| 2243 | 258011.3 | 4085386 | 6.66E-03 | 1.02E-03 | 5.49E-04 |
| 2244 | 258035.6 | 4085385 | 6.48E-03 | 9.88E-04 | 5.34E-04 |
| 2245 | 258059.9 | 4085384 | 6.29E-03 | 9.57E-04 | 5.18E-04 |
| 2246 | 258084.1 | 4085383 | 6.07E-03 | 9.25E-04 | 5.00E-04 |
| 2247 | 258108.4 | 4085382 | 5.83E-03 | 8.89E-04 | 4.81E-04 |
| 2248 | 258132.7 | 4085381 | 5.58E-03 | 8.50E-04 | 4.60E-04 |
| 2249 | 258157 | 4085380 | 5.30E-03 | 8.08E-04 | 4.37E-04 |

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|---|---|---|---|---|---|
| 2156 | 258006.9 | 4085286 | 1.27E-02 | 1.94E-03 | 1.05E-03 |
| 2157 | 258031.2 | 4085285 | 1.25E-02 | 1.90E-03 | 1.03E-03 |
| 2158 | 258055.4 | 4085284 | 1.22E-02 | 1.86E-03 | 1.00E-03 |
| 2159 | 258079.7 | 4085283 | 1.19E-02 | 1.81E-03 | 9.77E-04 |
| 2160 | 258104 | 4085282 | 1.15E-02 | 1.75E-03 | 9.46E-04 |
| 2161 | 258128.3 | 4085281 | 1.10E-02 | 1.68E-03 | 9.11E-04 |
| 2162 | 258152.6 | 4085280 | 1.06E-02 | 1.61E-03 | 8.71E-04 |
| 2163 | 258176.8 | 4085279 | 1.00E-02 | 1.53E-03 | 8.27E-04 |
| 2164 | 258201.1 | 4085277 | 9.43E-03 | 1.44E-03 | 7.78E-04 |
| 2165 | 258225.4 | 4085276 | 8.78E-03 | 1.34E-03 | 7.24E-04 |
| 2166 | 258249.7 | 4085275 | 8.09E-03 | 1.23E-03 | 6.67E-04 |
| 2167 | 258274 | 4085274 | 7.38E-03 | 1.12E-03 | 6.08E-04 |
| 2168 | 258298.3 | 4085273 | 6.66E-03 | 1.01E-03 | 5.49E-04 |
| 2169 | 258322.5 | 4085272 | 5.96E-03 | 9.08E-04 | 4.91E-04 |
| 2170 | 258346.8 | 4085271 | 5.29E-03 | 8.06E-04 | 4.36E-04 |
| 2171 | 258371.1 | 4085270 | 4.68E-03 | 7.13E-04 | 3.86E-04 |
| 2172 | 257551.4 | 4085348 | 8.54E-03 | 1.30E-03 | 7.04E-04 |
| 2173 | 257510.1 | 4085333 | 8.36E-03 | 1.27E-03 | 6.89E-04 |
| 2174 | 257468.9 | 4085318 | 7.87E-03 | 1.20E-03 | 6.49E-04 |
| 2175 | 257418.4 | 4085283 | 7.11E-03 | 1.08E-03 | 5.86E-04 |
| 2176 | 257400 | 4085243 | 6.80E-03 | 1.04E-03 | 5.61E-04 |
| 2177 | 257381.7 | 4085203 | 5.92E-03 | 9.02E-04 | 4.88E-04 |
| 2178 | 257596.3 | 4085354 | 8.85E-03 | 1.35E-03 | 7.29E-04 |
| 2179 | 257620.6 | 4085353 | 9.12E-03 | 1.39E-03 | 7.52E-04 |
| 2180 | 257644.9 | 4085352 | 9.35E-03 | 1.42E-03 | 7.71E-04 |
| 2181 | 257669.1 | 4085351 | 9.54E-03 | 1.45E-03 | 7.86E-04 |
| 2182 | 257693.4 | 4085350 | 9.69E-03 | 1.48E-03 | 7.99E-04 |
| 2183 | 257717.7 | 4085349 | 9.82E-03 | 1.50E-03 | 8.09E-04 |
| 2184 | 257742 | 4085348 | 9.88E-03 | 1.51E-03 | 8.14E-04 |
| 2185 | 257766.3 | 4085347 | 9.89E-03 | 1.51E-03 | 8.15E-04 |
| 2186 | 257790.6 | 4085346 | 9.91E-03 | 1.51E-03 | 8.17E-04 |
| 2187 | 257814.8 | 4085345 | 9.91E-03 | 1.51E-03 | 8.17E-04 |
| 2188 | 257839.1 | 4085344 | 9.88E-03 | 1.50E-03 | 8.14E-04 |
| 2189 | 257863.4 | 4085343 | 9.82E-03 | 1.50E-03 | 8.09E-04 |
| 2190 | 257887.7 | 4085341 | 9.74E-03 | 1.48E-03 | 8.03E-04 |
| 2191 | 257912 | 4085340 | 9.64E-03 | 1.47E-03 | 7.95E-04 |
| 2192 | 257936.2 | 4085339 | 9.52E-03 | 1.45E-03 | 7.84E-04 |
| 2193 | 257960.5 | 4085338 | 9.37E-03 | 1.43E-03 | 7.72E-04 |
| 2194 | 257984.8 | 4085337 | 9.20E-03 | 1.40E-03 | 7.58E-04 |
| 2195 | 258009.1 | 4085336 | 9.00E-03 | 1.37E-03 | 7.42E-04 |
| 2196 | 258033.4 | 4085335 | 8.78E-03 | 1.34E-03 | 7.24E-04 |
| 2197 | 258057.7 | 4085334 | 8.54E-03 | 1.30E-03 | 7.04E-04 |
| 2198 | 258081.9 | 4085333 | 8.27E-03 | 1.26E-03 | 6.82E-04 |
| 2199 | 258106.2 | 4085332 | 7.97E-03 | 1.21E-03 | 6.57E-04 |
| 2200 | 258130.5 | 4085331 | 7.64E-03 | 1.16E-03 | 6.30E-04 |
| 2201 | 258154.8 | 4085330 | 7.28E-03 | 1.11E-03 | 6.00E-04 |
| 2202 | 258179.1 | 4085329 | 6.89E-03 | 1.05E-03 | 5.68E-04 |

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|---|---|---|---|---|---|
| 2109 | 257859 | 4085243 | 2.00E-02 | 3.05E-03 | 1.65E-03 |
| 2110 | 257883.3 | 4085242 | 1.99E-02 | 3.03E-03 | 1.64E-03 |
| 2111 | 257907.5 | 4085240 | 1.98E-02 | 3.01E-03 | 1.63E-03 |
| 2112 | 257931.8 | 4085239 | 1.97E-02 | 3.00E-03 | 1.62E-03 |
| 2113 | 257956.1 | 4085238 | 1.96E-02 | 2.98E-03 | 1.61E-03 |
| 2114 | 257980.4 | 4085237 | 1.94E-02 | 2.96E-03 | 1.60E-03 |
| 2115 | 258004.7 | 4085236 | 1.92E-02 | 2.93E-03 | 1.58E-03 |
| 2116 | 258028.9 | 4085235 | 1.89E-02 | 2.89E-03 | 1.56E-03 |
| 2117 | 258053.2 | 4085234 | 1.86E-02 | 2.84E-03 | 1.54E-03 |
| 2118 | 258077.5 | 4085233 | 1.83E-02 | 2.78E-03 | 1.50E-03 |
| 2119 | 258101.8 | 4085232 | 1.78E-02 | 2.71E-03 | 1.47E-03 |
| 2120 | 258126.1 | 4085231 | 1.73E-02 | 2.63E-03 | 1.42E-03 |
| 2121 | 258150.4 | 4085230 | 1.67E-02 | 2.54E-03 | 1.37E-03 |
| 2122 | 258174.6 | 4085229 | 1.59E-02 | 2.43E-03 | 1.31E-03 |
| 2123 | 258198.9 | 4085228 | 1.51E-02 | 2.30E-03 | 1.24E-03 |
| 2124 | 258223.2 | 4085226 | 1.41E-02 | 2.15E-03 | 1.16E-03 |
| 2125 | 258247.5 | 4085225 | 1.30E-02 | 1.98E-03 | 1.07E-03 |
| 2126 | 258271.8 | 4085224 | 1.18E-02 | 1.80E-03 | 9.71E-04 |
| 2127 | 258296 | 4085223 | 1.05E-02 | 1.60E-03 | 8.63E-04 |
| 2128 | 258320.3 | 4085222 | 9.15E-03 | 1.39E-03 | 7.54E-04 |
| 2129 | 258344.6 | 4085221 | 7.87E-03 | 1.20E-03 | 6.49E-04 |
| 2130 | 257548.1 | 4085298 | 1.10E-02 | 1.68E-03 | 9.06E-04 |
| 2131 | 257526.5 | 4085290 | 1.08E-02 | 1.65E-03 | 8.90E-04 |
| 2132 | 257504.8 | 4085282 | 1.04E-02 | 1.59E-03 | 8.61E-04 |
| 2133 | 257483.2 | 4085274 | 9.90E-03 | 1.51E-03 | 8.16E-04 |
| 2134 | 257451.9 | 4085245 | 9.31E-03 | 1.42E-03 | 7.68E-04 |
| 2135 | 257442.2 | 4085224 | 9.14E-03 | 1.39E-03 | 7.53E-04 |
| 2136 | 257432.6 | 4085203 | 8.65E-03 | 1.32E-03 | 7.13E-04 |
| 2137 | 257422.9 | 4085182 | 7.92E-03 | 1.21E-03 | 6.53E-04 |
| 2138 | 257569.8 | 4085305 | 1.10E-02 | 1.68E-03 | 9.10E-04 |
| 2139 | 257594.1 | 4085304 | 1.16E-02 | 1.77E-03 | 9.57E-04 |
| 2140 | 257618.4 | 4085303 | 1.21E-02 | 1.84E-03 | 9.96E-04 |
| 2141 | 257642.6 | 4085302 | 1.25E-02 | 1.90E-03 | 1.03E-03 |
| 2142 | 257666.9 | 4085301 | 1.28E-02 | 1.95E-03 | 1.05E-03 |
| 2143 | 257691.2 | 4085300 | 1.31E-02 | 1.99E-03 | 1.08E-03 |
| 2144 | 257715.5 | 4085299 | 1.33E-02 | 2.02E-03 | 1.09E-03 |
| 2145 | 257739.8 | 4085298 | 1.34E-02 | 2.04E-03 | 1.11E-03 |
| 2146 | 257764.1 | 4085297 | 1.35E-02 | 2.06E-03 | 1.12E-03 |
| 2147 | 257788.3 | 4085296 | 1.36E-02 | 2.07E-03 | 1.12E-03 |
| 2148 | 257812.6 | 4085295 | 1.36E-02 | 2.07E-03 | 1.12E-03 |
| 2149 | 257836.9 | 4085294 | 1.36E-02 | 2.07E-03 | 1.12E-03 |
| 2150 | 257861.2 | 4085293 | 1.35E-02 | 2.06E-03 | 1.11E-03 |
| 2151 | 257885.5 | 4085291 | 1.35E-02 | 2.05E-03 | 1.11E-03 |
| 2152 | 257909.7 | 4085290 | 1.34E-02 | 2.04E-03 | 1.10E-03 |
| 2153 | 257934 | 4085289 | 1.33E-02 | 2.02E-03 | 1.09E-03 |
| 2154 | 257958.3 | 4085288 | 1.31E-02 | 2.00E-03 | 1.08E-03 |
| 2155 | 257982.6 | 4085287 | 1.29E-02 | 1.97E-03 | 1.07E-03 |

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|---|---|---|---|---|---|
| 2062 | 257615 | 4085228 | 2.15E-02 | 3.28E-03 | 1.77E-03 |
| 2063 | 257639.3 | 4085227 | 2.25E-02 | 3.42E-03 | 1.85E-03 |
| 2064 | 257663.6 | 4085226 | 2.32E-02 | 3.54E-03 | 1.91E-03 |
| 2065 | 257687.9 | 4085225 | 2.38E-02 | 3.62E-03 | 1.96E-03 |
| 2066 | 257712.2 | 4085224 | 2.42E-02 | 3.69E-03 | 2.00E-03 |
| 2067 | 257736.5 | 4085223 | 2.45E-02 | 3.74E-03 | 2.02E-03 |
| 2068 | 257760.7 | 4085222 | 2.48E-02 | 3.78E-03 | 2.04E-03 |
| 2069 | 257785 | 4085221 | 2.50E-02 | 3.81E-03 | 2.06E-03 |
| 2070 | 257809.3 | 4085220 | 2.51E-02 | 3.83E-03 | 2.07E-03 |
| 2071 | 257833.6 | 4085219 | 2.52E-02 | 3.85E-03 | 2.08E-03 |
| 2072 | 257857.9 | 4085218 | 2.53E-02 | 3.86E-03 | 2.09E-03 |
| 2073 | 257882.1 | 4085217 | 2.53E-02 | 3.86E-03 | 2.09E-03 |
| 2074 | 257906.4 | 4085215 | 2.52E-02 | 3.84E-03 | 2.08E-03 |
| 2075 | 257930.7 | 4085214 | 2.50E-02 | 3.81E-03 | 2.06E-03 |
| 2076 | 257955 | 4085213 | 2.49E-02 | 3.79E-03 | 2.05E-03 |
| 2077 | 257979.3 | 4085212 | 2.47E-02 | 3.77E-03 | 2.04E-03 |
| 2078 | 258003.6 | 4085211 | 2.45E-02 | 3.74E-03 | 2.02E-03 |
| 2079 | 258027.8 | 4085210 | 2.43E-02 | 3.70E-03 | 2.00E-03 |
| 2080 | 258052.1 | 4085209 | 2.40E-02 | 3.65E-03 | 1.98E-03 |
| 2081 | 258076.4 | 4085208 | 2.36E-02 | 3.60E-03 | 1.95E-03 |
| 2082 | 258100.7 | 4085207 | 2.31E-02 | 3.52E-03 | 1.91E-03 |
| 2083 | 258125 | 4085206 | 2.26E-02 | 3.44E-03 | 1.86E-03 |
| 2084 | 258149.2 | 4085205 | 2.19E-02 | 3.34E-03 | 1.80E-03 |
| 2085 | 258173.5 | 4085204 | 2.11E-02 | 3.21E-03 | 1.74E-03 |
| 2086 | 258197.8 | 4085203 | 2.01E-02 | 3.06E-03 | 1.66E-03 |
| 2087 | 258222.1 | 4085201 | 1.89E-02 | 2.88E-03 | 1.56E-03 |
| 2088 | 258246.4 | 4085200 | 1.75E-02 | 2.67E-03 | 1.44E-03 |
| 2089 | 258270.7 | 4085199 | 1.59E-02 | 2.42E-03 | 1.31E-03 |
| 2090 | 258294.9 | 4085198 | 1.41E-02 | 2.14E-03 | 1.16E-03 |
| 2091 | 258319.2 | 4085197 | 1.21E-02 | 1.85E-03 | 9.98E-04 |
| 2092 | 258343.5 | 4085196 | 1.02E-02 | 1.55E-03 | 8.38E-04 |
| 2093 | 258367.8 | 4085195 | 8.43E-03 | 1.28E-03 | 6.95E-04 |
| 2094 | 257549.5 | 4085249 | 1.51E-02 | 2.29E-03 | 1.24E-03 |
| 2095 | 257513.4 | 4085236 | 1.39E-02 | 2.12E-03 | 1.15E-03 |
| 2096 | 257487.3 | 4085212 | 1.32E-02 | 2.00E-03 | 1.08E-03 |
| 2097 | 257471.3 | 4085177 | 1.23E-02 | 1.87E-03 | 1.01E-03 |
| 2098 | 257591.9 | 4085254 | 1.63E-02 | 2.48E-03 | 1.34E-03 |
| 2099 | 257616.2 | 4085253 | 1.72E-02 | 2.62E-03 | 1.42E-03 |
| 2100 | 257640.4 | 4085252 | 1.79E-02 | 2.72E-03 | 1.47E-03 |
| 2101 | 257664.7 | 4085251 | 1.84E-02 | 2.81E-03 | 1.52E-03 |
| 2102 | 257689 | 4085250 | 1.89E-02 | 2.87E-03 | 1.55E-03 |
| 2103 | 257713.3 | 4085249 | 1.92E-02 | 2.92E-03 | 1.58E-03 |
| 2104 | 257737.6 | 4085248 | 1.95E-02 | 2.96E-03 | 1.60E-03 |
| 2105 | 257761.8 | 4085247 | 1.97E-02 | 2.99E-03 | 1.62E-03 |
| 2106 | 257786.1 | 4085246 | 1.98E-02 | 3.02E-03 | 1.63E-03 |
| 2107 | 257810.4 | 4085245 | 1.99E-02 | 3.03E-03 | 1.64E-03 |
| 2108 | 257834.7 | 4085244 | 2.00E-02 | 3.04E-03 | 1.65E-03 |

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|---|---|---|---|---|---|
| 2015 | 258122.8 | 4085156 | 4.64E-02 | 7.07E-03 | 3.83E-03 |
| 2016 | 258147 | 4085155 | 4.57E-02 | 6.96E-03 | 3.77E-03 |
| 2017 | 258171.3 | 4085154 | 4.48E-02 | 6.82E-03 | 3.69E-03 |
| 2018 | 258195.6 | 4085153 | 4.36E-02 | 6.64E-03 | 3.59E-03 |
| 2019 | 258219.9 | 4085152 | 4.21E-02 | 6.41E-03 | 3.47E-03 |
| 2020 | 258244.2 | 4085150 | 4.01E-02 | 6.11E-03 | 3.31E-03 |
| 2021 | 258268.4 | 4085149 | 3.75E-02 | 5.71E-03 | 3.09E-03 |
| 2022 | 258292.7 | 4085148 | 3.39E-02 | 5.16E-03 | 2.79E-03 |
| 2023 | 258317 | 4085147 | 2.89E-02 | 4.41E-03 | 2.38E-03 |
| 2024 | 258341.3 | 4085146 | 2.25E-02 | 3.43E-03 | 1.86E-03 |
| 2025 | 258365.6 | 4085145 | 1.62E-02 | 2.47E-03 | 1.34E-03 |
| 2026 | 257547.3 | 4085199 | 2.29E-02 | 3.49E-03 | 1.89E-03 |
| 2027 | 257589.7 | 4085204 | 2.66E-02 | 4.06E-03 | 2.19E-03 |
| 2028 | 257613.9 | 4085203 | 2.86E-02 | 4.36E-03 | 2.36E-03 |
| 2029 | 257638.2 | 4085202 | 3.00E-02 | 4.57E-03 | 2.47E-03 |
| 2030 | 257662.5 | 4085201 | 3.10E-02 | 4.72E-03 | 2.56E-03 |
| 2031 | 257686.8 | 4085200 | 3.17E-02 | 4.84E-03 | 2.62E-03 |
| 2032 | 257711.1 | 4085199 | 3.23E-02 | 4.92E-03 | 2.66E-03 |
| 2033 | 257735.4 | 4085198 | 3.28E-02 | 4.99E-03 | 2.70E-03 |
| 2034 | 257759.6 | 4085197 | 3.31E-02 | 5.04E-03 | 2.73E-03 |
| 2035 | 257783.9 | 4085196 | 3.33E-02 | 5.08E-03 | 2.75E-03 |
| 2036 | 257808.2 | 4085195 | 3.35E-02 | 5.11E-03 | 2.76E-03 |
| 2037 | 257832.5 | 4085194 | 3.37E-02 | 5.13E-03 | 2.78E-03 |
| 2038 | 257856.8 | 4085193 | 3.38E-02 | 5.14E-03 | 2.78E-03 |
| 2039 | 257881 | 4085192 | 3.38E-02 | 5.15E-03 | 2.79E-03 |
| 2040 | 257905.3 | 4085190 | 3.38E-02 | 5.15E-03 | 2.79E-03 |
| 2041 | 257929.6 | 4085189 | 3.38E-02 | 5.14E-03 | 2.78E-03 |
| 2042 | 257953.9 | 4085188 | 3.37E-02 | 5.13E-03 | 2.78E-03 |
| 2043 | 257978.2 | 4085187 | 3.31E-02 | 5.05E-03 | 2.73E-03 |
| 2044 | 258002.5 | 4085186 | 3.29E-02 | 5.02E-03 | 2.71E-03 |
| 2045 | 258026.7 | 4085185 | 3.27E-02 | 4.98E-03 | 2.70E-03 |
| 2046 | 258051 | 4085184 | 3.24E-02 | 4.94E-03 | 2.67E-03 |
| 2047 | 258075.3 | 4085183 | 3.20E-02 | 4.88E-03 | 2.64E-03 |
| 2048 | 258099.6 | 4085182 | 3.15E-02 | 4.81E-03 | 2.60E-03 |
| 2049 | 258123.9 | 4085181 | 3.10E-02 | 4.72E-03 | 2.55E-03 |
| 2050 | 258148.1 | 4085180 | 3.03E-02 | 4.61E-03 | 2.49E-03 |
| 2051 | 258172.4 | 4085179 | 2.94E-02 | 4.48E-03 | 2.42E-03 |
| 2052 | 258196.7 | 4085178 | 2.83E-02 | 4.31E-03 | 2.33E-03 |
| 2053 | 258221 | 4085177 | 2.69E-02 | 4.10E-03 | 2.22E-03 |
| 2054 | 258245.3 | 4085175 | 2.52E-02 | 3.84E-03 | 2.08E-03 |
| 2055 | 258269.6 | 4085174 | 2.31E-02 | 3.51E-03 | 1.90E-03 |
| 2056 | 258293.8 | 4085173 | 2.05E-02 | 3.12E-03 | 1.69E-03 |
| 2057 | 258318.1 | 4085172 | 1.74E-02 | 2.65E-03 | 1.43E-03 |
| 2058 | 258342.4 | 4085171 | 1.41E-02 | 2.15E-03 | 1.16E-03 |
| 2059 | 257548.4 | 4085224 | 1.82E-02 | 2.78E-03 | 1.50E-03 |
| 2060 | 257504.3 | 4085193 | 1.64E-02 | 2.49E-03 | 1.35E-03 |
| 2061 | 257590.8 | 4085229 | 2.02E-02 | 3.08E-03 | 1.67E-03 |

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|---|---|---|---|---|---|
| 1968 | 256714.4 | 4083817 | 8.85E-05 | 1.35E-05 | 7.29E-06 |
| 1969 | 256754.4 | 4083798 | 8.83E-05 | 1.35E-05 | 7.28E-06 |
| 1970 | 256794.4 | 4083780 | 8.80E-05 | 1.34E-05 | 7.26E-06 |
| 1971 | 256834.3 | 4083761 | 8.77E-05 | 1.34E-05 | 7.23E-06 |
| 1972 | 256874.3 | 4083743 | 8.76E-05 | 1.33E-05 | 7.22E-06 |
| 1973 | 256914.3 | 4083724 | 8.73E-05 | 1.33E-05 | 7.19E-06 |
| 1974 | 256954.3 | 4083706 | 8.70E-05 | 1.33E-05 | 7.17E-06 |
| 1975 | 256994.3 | 4083687 | 8.67E-05 | 1.32E-05 | 7.15E-06 |
| 1976 | 257034.3 | 4083669 | 8.62E-05 | 1.31E-05 | 7.11E-06 |
| 1977 | 257074.3 | 4083650 | 8.57E-05 | 1.30E-05 | 7.06E-06 |
| 1978 | 257114.2 | 4083632 | 8.49E-05 | 1.29E-05 | 7.00E-06 |
| 1979 | 257154.2 | 4083613 | 8.40E-05 | 1.28E-05 | 6.93E-06 |
| 1980 | 257194.2 | 4083595 | 8.28E-05 | 1.26E-05 | 6.83E-06 |
| 1981 | 257234.2 | 4083576 | 8.15E-05 | 1.24E-05 | 6.72E-06 |
| 1982 | 257274.2 | 4083558 | 8.02E-05 | 1.22E-05 | 6.61E-06 |
| 1983 | 257314.2 | 4083539 | 7.88E-05 | 1.20E-05 | 6.50E-06 |
| 1984 | 257354.2 | 4083521 | 7.78E-05 | 1.19E-05 | 6.41E-06 |
| 1985 | 257394.2 | 4083503 | 7.71E-05 | 1.17E-05 | 6.35E-06 |
| 1986 | 257434.1 | 4083484 | 7.68E-05 | 1.17E-05 | 6.33E-06 |
| 1987 | 256057.6 | 4085033 | 2.53E-04 | 3.86E-05 | 2.09E-05 |
| 1988 | 256059.2 | 4085077 | 2.63E-04 | 4.01E-05 | 2.17E-05 |
| 1989 | 256060.9 | 4085122 | 2.69E-04 | 4.10E-05 | 2.22E-05 |
| 1990 | 256062.5 | 4085167 | 2.72E-04 | 4.15E-05 | 2.24E-05 |
| 1991 | 256064.2 | 4085211 | 2.74E-04 | 4.18E-05 | 2.26E-05 |
| 1992 | 257564.3 | 4085181 | 3.31E-02 | 5.04E-03 | 2.72E-03 |
| 1993 | 257588.6 | 4085180 | 3.90E-02 | 5.94E-03 | 3.21E-03 |
| 1994 | 257612.8 | 4085178 | 4.25E-02 | 6.47E-03 | 3.50E-03 |
| 1995 | 257637.1 | 4085177 | 4.47E-02 | 6.80E-03 | 3.68E-03 |
| 1996 | 257661.4 | 4085176 | 4.61E-02 | 7.03E-03 | 3.80E-03 |
| 1997 | 257685.7 | 4085175 | 4.72E-02 | 7.18E-03 | 3.89E-03 |
| 1998 | 257710 | 4085174 | 4.79E-02 | 7.30E-03 | 3.95E-03 |
| 1999 | 257734.2 | 4085173 | 4.85E-02 | 7.38E-03 | 4.00E-03 |
| 2000 | 257758.5 | 4085172 | 4.89E-02 | 7.45E-03 | 4.03E-03 |
| 2001 | 257782.8 | 4085171 | 4.92E-02 | 7.49E-03 | 4.05E-03 |
| 2002 | 257807.1 | 4085170 | 4.94E-02 | 7.53E-03 | 4.07E-03 |
| 2003 | 257831.4 | 4085169 | 4.95E-02 | 7.55E-03 | 4.08E-03 |
| 2004 | 257855.7 | 4085168 | 4.96E-02 | 7.56E-03 | 4.09E-03 |
| 2005 | 257879.9 | 4085167 | 4.97E-02 | 7.57E-03 | 4.10E-03 |
| 2006 | 257904.2 | 4085166 | 4.97E-02 | 7.57E-03 | 4.09E-03 |
| 2007 | 257928.5 | 4085164 | 4.96E-02 | 7.56E-03 | 4.09E-03 |
| 2008 | 257952.8 | 4085163 | 4.95E-02 | 7.55E-03 | 4.08E-03 |
| 2009 | 257977.1 | 4085162 | 4.94E-02 | 7.52E-03 | 4.07E-03 |
| 2010 | 258001.3 | 4085161 | 4.92E-02 | 7.50E-03 | 4.06E-03 |
| 2011 | 258025.6 | 4085160 | 4.90E-02 | 7.46E-03 | 4.04E-03 |
| 2012 | 258049.9 | 4085159 | 4.87E-02 | 7.42E-03 | 4.01E-03 |
| 2013 | 258074.2 | 4085158 | 4.83E-02 | 7.36E-03 | 3.98E-03 |
| 2014 | 258098.5 | 4085157 | 4.70E-02 | 7.17E-03 | 3.88E-03 |

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| 1921 | 257101.9 | 4083841 | 1.01E-04 | 1.54E-05 | 8.33E-06 |
| 1922 | 257141.9 | 4083823 | 1.00E-04 | 1.53E-05 | 8.26E-06 |
| 1923 | 257182 | 4083804 | 9.93E-05 | 1.51E-05 | 8.18E-06 |
| 1924 | 257222 | 4083786 | 9.84E-05 | 1.50E-05 | 8.11E-06 |
| 1925 | 257262.1 | 4083767 | 9.77E-05 | 1.49E-05 | 8.05E-06 |
| 1926 | 257302.1 | 4083749 | 9.69E-05 | 1.48E-05 | 7.99E-06 |
| 1927 | 257342.2 | 4083730 | 9.62E-05 | 1.47E-05 | 7.93E-06 |
| 1928 | 257382.2 | 4083712 | 9.56E-05 | 1.46E-05 | 7.88E-06 |
| 1929 | 257422.2 | 4083693 | 9.51E-05 | 1.45E-05 | 7.84E-06 |
| 1930 | 257462.3 | 4083675 | 9.48E-05 | 1.44E-05 | 7.82E-06 |
| 1931 | 256257.5 | 4085025 | 2.92E-04 | 4.45E-05 | 2.41E-05 |
| 1932 | 256259.1 | 4085070 | 3.06E-04 | 4.67E-05 | 2.52E-05 |
| 1933 | 256260.8 | 4085115 | 3.15E-04 | 4.80E-05 | 2.60E-05 |
| 1934 | 256261.6 | 4085137 | 3.18E-04 | 4.84E-05 | 2.62E-05 |
| 1935 | 256263.2 | 4085181 | 3.22E-04 | 4.90E-05 | 2.65E-05 |
| 1936 | 256064.4 | 4084990 | 2.41E-04 | 3.68E-05 | 1.99E-05 |
| 1937 | 256079.7 | 4084949 | 2.28E-04 | 3.48E-05 | 1.88E-05 |
| 1938 | 256095 | 4084907 | 2.14E-04 | 3.26E-05 | 1.76E-05 |
| 1939 | 256110.3 | 4084866 | 2.00E-04 | 3.05E-05 | 1.65E-05 |
| 1940 | 256125.6 | 4084825 | 1.88E-04 | 2.87E-05 | 1.55E-05 |
| 1941 | 256140.9 | 4084783 | 1.78E-04 | 2.71E-05 | 1.47E-05 |
| 1942 | 256156.2 | 4084742 | 1.70E-04 | 2.59E-05 | 1.40E-05 |
| 1943 | 256171.5 | 4084701 | 1.64E-04 | 2.49E-05 | 1.35E-05 |
| 1944 | 256186.8 | 4084660 | 1.58E-04 | 2.41E-05 | 1.31E-05 |
| 1945 | 256202.1 | 4084618 | 1.54E-04 | 2.34E-05 | 1.27E-05 |
| 1946 | 256217.4 | 4084577 | 1.48E-04 | 2.26E-05 | 1.22E-05 |
| 1947 | 256232.7 | 4084536 | 1.42E-04 | 2.17E-05 | 1.17E-05 |
| 1948 | 256248 | 4084494 | 1.35E-04 | 2.06E-05 | 1.11E-05 |
| 1949 | 256263.3 | 4084453 | 1.27E-04 | 1.93E-05 | 1.04E-05 |
| 1950 | 256278.6 | 4084412 | 1.18E-04 | 1.80E-05 | 9.72E-06 |
| 1951 | 256293.9 | 4084370 | 1.09E-04 | 1.67E-05 | 9.01E-06 |
| 1952 | 256309.2 | 4084329 | 1.02E-04 | 1.55E-05 | 8.40E-06 |
| 1953 | 256324.4 | 4084288 | 9.62E-05 | 1.47E-05 | 7.93E-06 |
| 1954 | 256339.7 | 4084246 | 9.22E-05 | 1.40E-05 | 7.60E-06 |
| 1955 | 256355 | 4084205 | 8.98E-05 | 1.37E-05 | 7.40E-06 |
| 1956 | 256370.3 | 4084164 | 8.89E-05 | 1.35E-05 | 7.33E-06 |
| 1957 | 256385.6 | 4084123 | 8.89E-05 | 1.35E-05 | 7.33E-06 |
| 1958 | 256400.9 | 4084081 | 8.94E-05 | 1.36E-05 | 7.37E-06 |
| 1959 | 256416.2 | 4084040 | 8.97E-05 | 1.37E-05 | 7.39E-06 |
| 1960 | 256431.5 | 4083999 | 8.98E-05 | 1.37E-05 | 7.40E-06 |
| 1961 | 256446.8 | 4083957 | 8.92E-05 | 1.36E-05 | 7.35E-06 |
| 1962 | 256474.5 | 4083927 | 8.91E-05 | 1.36E-05 | 7.34E-06 |
| 1963 | 256514.4 | 4083909 | 8.94E-05 | 1.36E-05 | 7.37E-06 |
| 1964 | 256554.4 | 4083890 | 8.94E-05 | 1.36E-05 | 7.37E-06 |
| 1965 | 256594.4 | 4083872 | 8.91E-05 | 1.36E-05 | 7.34E-06 |
| 1966 | 256634.4 | 4083854 | 8.88E-05 | 1.35E-05 | 7.32E-06 |
| 1967 | 256674.4 | 4083835 | 8.86E-05 | 1.35E-05 | 7.30E-06 |

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|---|---|---|---|---|---|
| 1874 | 257169.5 | 4084014 | 1.24E-04 | 1.89E-05 | 1.02E-05 |
| 1875 | 257209.6 | 4083995 | 1.22E-04 | 1.86E-05 | 1.01E-05 |
| 1876 | 257249.7 | 4083977 | 1.21E-04 | 1.84E-05 | 9.96E-06 |
| 1877 | 257289.9 | 4083958 | 1.20E-04 | 1.82E-05 | 9.87E-06 |
| 1878 | 257330 | 4083939 | 1.19E-04 | 1.82E-05 | 9.82E-06 |
| 1879 | 257370.1 | 4083921 | 1.19E-04 | 1.82E-05 | 9.82E-06 |
| 1880 | 257410.2 | 4083902 | 1.19E-04 | 1.82E-05 | 9.85E-06 |
| 1881 | 257450.4 | 4083884 | 1.20E-04 | 1.83E-05 | 9.89E-06 |
| 1882 | 256457.3 | 4085018 | 3.45E-04 | 5.26E-05 | 2.85E-05 |
| 1883 | 256459 | 4085063 | 3.66E-04 | 5.57E-05 | 3.02E-05 |
| 1884 | 256460.6 | 4085107 | 3.79E-04 | 5.78E-05 | 3.13E-05 |
| 1885 | 256462.3 | 4085152 | 3.88E-04 | 5.91E-05 | 3.20E-05 |
| 1886 | 256463.9 | 4085196 | 3.95E-04 | 6.01E-05 | 3.25E-05 |
| 1887 | 256264.3 | 4084983 | 2.76E-04 | 4.20E-05 | 2.27E-05 |
| 1888 | 256279.6 | 4084941 | 2.58E-04 | 3.93E-05 | 2.13E-05 |
| 1889 | 256294.9 | 4084900 | 2.40E-04 | 3.66E-05 | 1.98E-05 |
| 1890 | 256310.2 | 4084858 | 2.24E-04 | 3.41E-05 | 1.84E-05 |
| 1891 | 256325.6 | 4084817 | 2.10E-04 | 3.19E-05 | 1.73E-05 |
| 1892 | 256340.9 | 4084776 | 1.99E-04 | 3.03E-05 | 1.64E-05 |
| 1893 | 256356.2 | 4084734 | 1.90E-04 | 2.89E-05 | 1.56E-05 |
| 1894 | 256371.5 | 4084693 | 1.83E-04 | 2.78E-05 | 1.50E-05 |
| 1895 | 256386.8 | 4084652 | 1.76E-04 | 2.68E-05 | 1.45E-05 |
| 1896 | 256402.2 | 4084610 | 1.68E-04 | 2.56E-05 | 1.39E-05 |
| 1897 | 256417.5 | 4084569 | 1.60E-04 | 2.44E-05 | 1.32E-05 |
| 1898 | 256432.8 | 4084527 | 1.50E-04 | 2.29E-05 | 1.24E-05 |
| 1899 | 256448.1 | 4084486 | 1.39E-04 | 2.12E-05 | 1.15E-05 |
| 1900 | 256463.4 | 4084445 | 1.29E-04 | 1.97E-05 | 1.07E-05 |
| 1901 | 256478.7 | 4084403 | 1.21E-04 | 1.84E-05 | 9.96E-06 |
| 1902 | 256494.1 | 4084362 | 1.14E-04 | 1.74E-05 | 9.41E-06 |
| 1903 | 256509.4 | 4084321 | 1.10E-04 | 1.67E-05 | 9.04E-06 |
| 1904 | 256524.7 | 4084279 | 1.07E-04 | 1.63E-05 | 8.82E-06 |
| 1905 | 256540 | 4084238 | 1.06E-04 | 1.61E-05 | 8.70E-06 |
| 1906 | 256555.3 | 4084197 | 1.05E-04 | 1.59E-05 | 8.62E-06 |
| 1907 | 256570.7 | 4084155 | 1.04E-04 | 1.58E-05 | 8.56E-06 |
| 1908 | 256586 | 4084114 | 1.03E-04 | 1.57E-05 | 8.50E-06 |
| 1909 | 256621.3 | 4084063 | 1.02E-04 | 1.56E-05 | 8.44E-06 |
| 1910 | 256661.4 | 4084045 | 1.03E-04 | 1.57E-05 | 8.51E-06 |
| 1911 | 256701.4 | 4084026 | 1.04E-04 | 1.58E-05 | 8.56E-06 |
| 1912 | 256741.5 | 4084008 | 1.04E-04 | 1.59E-05 | 8.61E-06 |
| 1913 | 256781.5 | 4083989 | 1.05E-04 | 1.60E-05 | 8.66E-06 |
| 1914 | 256821.6 | 4083971 | 1.06E-04 | 1.61E-05 | 8.70E-06 |
| 1915 | 256861.6 | 4083952 | 1.06E-04 | 1.61E-05 | 8.71E-06 |
| 1916 | 256901.6 | 4083934 | 1.06E-04 | 1.61E-05 | 8.70E-06 |
| 1917 | 256941.7 | 4083915 | 1.05E-04 | 1.60E-05 | 8.65E-06 |
| 1918 | 256981.7 | 4083897 | 1.04E-04 | 1.58E-05 | 8.57E-06 |
| 1919 | 257021.8 | 4083878 | 1.03E-04 | 1.57E-05 | 8.49E-06 |
| 1920 | 257061.8 | 4083860 | 1.02E-04 | 1.55E-05 | 8.40E-06 |

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|---|---|---|---|---|---|
| 1827 | 256995.6 | 4084298 | 1.57E-04 | 2.39E-05 | 1.29E-05 |
| 1828 | 257035.8 | 4084279 | 1.60E-04 | 2.43E-05 | 1.32E-05 |
| 1829 | 257076.1 | 4084260 | 1.63E-04 | 2.48E-05 | 1.34E-05 |
| 1830 | 257116.3 | 4084242 | 1.65E-04 | 2.51E-05 | 1.36E-05 |
| 1831 | 257156.6 | 4084223 | 1.65E-04 | 2.52E-05 | 1.36E-05 |
| 1832 | 257196.8 | 4084205 | 1.64E-04 | 2.51E-05 | 1.36E-05 |
| 1833 | 257237.1 | 4084186 | 1.62E-04 | 2.47E-05 | 1.34E-05 |
| 1834 | 257277.3 | 4084167 | 1.60E-04 | 2.43E-05 | 1.32E-05 |
| 1835 | 257317.5 | 4084149 | 1.57E-04 | 2.39E-05 | 1.29E-05 |
| 1836 | 257357.8 | 4084130 | 1.55E-04 | 2.36E-05 | 1.28E-05 |
| 1837 | 257398 | 4084112 | 1.54E-04 | 2.35E-05 | 1.27E-05 |
| 1838 | 257438.3 | 4084093 | 1.55E-04 | 2.36E-05 | 1.28E-05 |
| 1839 | 257478.5 | 4084074 | 1.56E-04 | 2.38E-05 | 1.29E-05 |
| 1840 | 256657.2 | 4085011 | 4.22E-04 | 6.44E-05 | 3.48E-05 |
| 1841 | 256658.8 | 4085055 | 4.54E-04 | 6.92E-05 | 3.75E-05 |
| 1842 | 256660.5 | 4085100 | 4.77E-04 | 7.26E-05 | 3.93E-05 |
| 1843 | 256662.1 | 4085144 | 4.92E-04 | 7.50E-05 | 4.06E-05 |
| 1844 | 256663 | 4085167 | 4.98E-04 | 7.59E-05 | 4.11E-05 |
| 1845 | 256464.2 | 4084975 | 3.22E-04 | 4.91E-05 | 2.66E-05 |
| 1846 | 256479.5 | 4084934 | 2.98E-04 | 4.55E-05 | 2.46E-05 |
| 1847 | 256494.9 | 4084892 | 2.76E-04 | 4.20E-05 | 2.27E-05 |
| 1848 | 256510.2 | 4084851 | 2.55E-04 | 3.89E-05 | 2.11E-05 |
| 1849 | 256525.6 | 4084809 | 2.39E-04 | 3.65E-05 | 1.97E-05 |
| 1850 | 256540.9 | 4084768 | 2.27E-04 | 3.45E-05 | 1.87E-05 |
| 1851 | 256556.3 | 4084726 | 2.16E-04 | 3.29E-05 | 1.78E-05 |
| 1852 | 256571.6 | 4084685 | 2.06E-04 | 3.14E-05 | 1.70E-05 |
| 1853 | 256587 | 4084643 | 1.95E-04 | 2.97E-05 | 1.61E-05 |
| 1854 | 256602.3 | 4084602 | 1.83E-04 | 2.78E-05 | 1.51E-05 |
| 1855 | 256617.7 | 4084561 | 1.70E-04 | 2.59E-05 | 1.40E-05 |
| 1856 | 256633 | 4084519 | 1.58E-04 | 2.40E-05 | 1.30E-05 |
| 1857 | 256648.4 | 4084478 | 1.47E-04 | 2.25E-05 | 1.22E-05 |
| 1858 | 256663.7 | 4084436 | 1.40E-04 | 2.13E-05 | 1.15E-05 |
| 1859 | 256679.1 | 4084395 | 1.34E-04 | 2.05E-05 | 1.11E-05 |
| 1860 | 256694.4 | 4084353 | 1.30E-04 | 1.99E-05 | 1.07E-05 |
| 1861 | 256709.8 | 4084312 | 1.27E-04 | 1.94E-05 | 1.05E-05 |
| 1862 | 256725.1 | 4084270 | 1.25E-04 | 1.90E-05 | 1.03E-05 |
| 1863 | 256740.5 | 4084229 | 1.22E-04 | 1.86E-05 | 1.01E-05 |
| 1864 | 256768.2 | 4084199 | 1.22E-04 | 1.85E-05 | 1.00E-05 |
| 1865 | 256808.3 | 4084180 | 1.23E-04 | 1.87E-05 | 1.01E-05 |
| 1866 | 256848.5 | 4084162 | 1.25E-04 | 1.90E-05 | 1.03E-05 |
| 1867 | 256888.6 | 4084143 | 1.26E-04 | 1.92E-05 | 1.04E-05 |
| 1868 | 256928.7 | 4084125 | 1.28E-04 | 1.95E-05 | 1.06E-05 |
| 1869 | 256968.8 | 4084106 | 1.29E-04 | 1.97E-05 | 1.07E-05 |
| 1870 | 257009 | 4084088 | 1.30E-04 | 1.98E-05 | 1.07E-05 |
| 1871 | 257049.1 | 4084069 | 1.29E-04 | 1.97E-05 | 1.07E-05 |
| 1872 | 257089.2 | 4084051 | 1.28E-04 | 1.95E-05 | 1.06E-05 |
| 1873 | 257129.3 | 4084032 | 1.26E-04 | 1.92E-05 | 1.04E-05 |

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|---|---|---|---|---|---|
| 1780 | 256961.9 | 4085133 | 8.18E-04 | 1.25E-04 | 6.74E-05 |
| 1781 | 256963.6 | 4085178 | 8.61E-04 | 1.31E-04 | 7.10E-05 |
| 1782 | 256863.9 | 4084960 | 4.93E-04 | 7.50E-05 | 4.06E-05 |
| 1783 | 256879.4 | 4084918 | 4.46E-04 | 6.79E-05 | 3.68E-05 |
| 1784 | 256894.9 | 4084877 | 4.05E-04 | 6.17E-05 | 3.34E-05 |
| 1785 | 256910.3 | 4084835 | 3.71E-04 | 5.65E-05 | 3.06E-05 |
| 1786 | 256925.8 | 4084793 | 3.42E-04 | 5.22E-05 | 2.82E-05 |
| 1787 | 256941.3 | 4084751 | 3.17E-04 | 4.82E-05 | 2.61E-05 |
| 1788 | 256956.7 | 4084710 | 2.93E-04 | 4.46E-05 | 2.41E-05 |
| 1789 | 256972.2 | 4084668 | 2.72E-04 | 4.14E-05 | 2.24E-05 |
| 1790 | 256987.7 | 4084626 | 2.54E-04 | 3.87E-05 | 2.09E-05 |
| 1791 | 257003.1 | 4084584 | 2.39E-04 | 3.64E-05 | 1.97E-05 |
| 1792 | 257018.6 | 4084542 | 2.26E-04 | 3.44E-05 | 1.86E-05 |
| 1793 | 257034.1 | 4084501 | 2.13E-04 | 3.24E-05 | 1.75E-05 |
| 1794 | 257062 | 4084470 | 2.07E-04 | 3.16E-05 | 1.71E-05 |
| 1795 | 257102.5 | 4084452 | 2.10E-04 | 3.19E-05 | 1.73E-05 |
| 1796 | 257142.9 | 4084433 | 2.13E-04 | 3.25E-05 | 1.76E-05 |
| 1797 | 257183.3 | 4084414 | 2.17E-04 | 3.31E-05 | 1.79E-05 |
| 1798 | 257223.7 | 4084396 | 2.21E-04 | 3.37E-05 | 1.82E-05 |
| 1799 | 257264.2 | 4084377 | 2.24E-04 | 3.41E-05 | 1.84E-05 |
| 1800 | 257304.6 | 4084358 | 2.25E-04 | 3.42E-05 | 1.85E-05 |
| 1801 | 257345 | 4084340 | 2.24E-04 | 3.41E-05 | 1.84E-05 |
| 1802 | 257385.5 | 4084321 | 2.22E-04 | 3.38E-05 | 1.83E-05 |
| 1803 | 257425.9 | 4084302 | 2.20E-04 | 3.36E-05 | 1.82E-05 |
| 1804 | 257466.3 | 4084284 | 2.20E-04 | 3.35E-05 | 1.81E-05 |
| 1805 | 256857 | 4085003 | 5.46E-04 | 8.31E-05 | 4.50E-05 |
| 1806 | 256858.7 | 4085048 | 5.99E-04 | 9.13E-05 | 4.94E-05 |
| 1807 | 256860.3 | 4085092 | 6.41E-04 | 9.76E-05 | 5.28E-05 |
| 1808 | 256862 | 4085137 | 6.71E-04 | 1.02E-04 | 5.53E-05 |
| 1809 | 256863.6 | 4085182 | 6.98E-04 | 1.06E-04 | 5.75E-05 |
| 1810 | 256664 | 4084968 | 3.89E-04 | 5.92E-05 | 3.20E-05 |
| 1811 | 256679.4 | 4084926 | 3.56E-04 | 5.42E-05 | 2.94E-05 |
| 1812 | 256694.8 | 4084884 | 3.26E-04 | 4.97E-05 | 2.69E-05 |
| 1813 | 256710.2 | 4084843 | 3.01E-04 | 4.59E-05 | 2.48E-05 |
| 1814 | 256725.6 | 4084801 | 2.82E-04 | 4.29E-05 | 2.32E-05 |
| 1815 | 256741 | 4084760 | 2.65E-04 | 4.03E-05 | 2.18E-05 |
| 1816 | 256756.4 | 4084718 | 2.49E-04 | 3.79E-05 | 2.05E-05 |
| 1817 | 256771.8 | 4084677 | 2.32E-04 | 3.54E-05 | 1.92E-05 |
| 1818 | 256787.2 | 4084635 | 2.16E-04 | 3.29E-05 | 1.78E-05 |
| 1819 | 256802.6 | 4084593 | 2.01E-04 | 3.06E-05 | 1.65E-05 |
| 1820 | 256818 | 4084552 | 1.88E-04 | 2.86E-05 | 1.55E-05 |
| 1821 | 256833.4 | 4084510 | 1.78E-04 | 2.71E-05 | 1.47E-05 |
| 1822 | 256848.8 | 4084469 | 1.70E-04 | 2.59E-05 | 1.40E-05 |
| 1823 | 256864.2 | 4084427 | 1.63E-04 | 2.49E-05 | 1.35E-05 |
| 1824 | 256879.6 | 4084386 | 1.57E-04 | 2.40E-05 | 1.30E-05 |
| 1825 | 256915.1 | 4084335 | 1.52E-04 | 2.32E-05 | 1.26E-05 |
| 1826 | 256955.3 | 4084316 | 1.54E-04 | 2.35E-05 | 1.27E-05 |

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| 1733 | 257161.8 | 4085126 | 1.42E-03 | 2.17E-04 | 1.17E-04 |
| 1734 | 257162.6 | 4085148 | 1.50E-03 | 2.28E-04 | 1.24E-04 |
| 1735 | 257063.4 | 4084954 | 6.82E-04 | 1.04E-04 | 5.62E-05 |
| 1736 | 257078.2 | 4084914 | 6.09E-04 | 9.28E-05 | 5.02E-05 |
| 1737 | 257092.9 | 4084874 | 5.46E-04 | 8.32E-05 | 4.50E-05 |
| 1738 | 257107.6 | 4084834 | 4.94E-04 | 7.53E-05 | 4.07E-05 |
| 1739 | 257122.4 | 4084795 | 4.52E-04 | 6.88E-05 | 3.72E-05 |
| 1740 | 257137.1 | 4084755 | 4.16E-04 | 6.33E-05 | 3.43E-05 |
| 1741 | 257151.8 | 4084715 | 3.85E-04 | 5.87E-05 | 3.18E-05 |
| 1742 | 257166.6 | 4084675 | 3.58E-04 | 5.45E-05 | 2.95E-05 |
| 1743 | 257181.3 | 4084635 | 3.32E-04 | 5.05E-05 | 2.73E-05 |
| 1744 | 257207.9 | 4084607 | 3.21E-04 | 4.89E-05 | 2.64E-05 |
| 1745 | 257246.4 | 4084589 | 3.24E-04 | 4.94E-05 | 2.67E-05 |
| 1746 | 257284.9 | 4084571 | 3.28E-04 | 5.00E-05 | 2.71E-05 |
| 1747 | 257323.4 | 4084553 | 3.33E-04 | 5.07E-05 | 2.74E-05 |
| 1748 | 257361.9 | 4084536 | 3.37E-04 | 5.13E-05 | 2.78E-05 |
| 1749 | 257400.4 | 4084518 | 3.41E-04 | 5.19E-05 | 2.81E-05 |
| 1750 | 257438.9 | 4084500 | 3.45E-04 | 5.25E-05 | 2.84E-05 |
| 1751 | 257477.4 | 4084482 | 3.49E-04 | 5.32E-05 | 2.88E-05 |
| 1752 | 257056.9 | 4084996 | 7.73E-04 | 1.18E-04 | 6.37E-05 |
| 1753 | 257057.7 | 4085018 | 8.26E-04 | 1.26E-04 | 6.81E-05 |
| 1754 | 257059.4 | 4085063 | 9.23E-04 | 1.41E-04 | 7.61E-05 |
| 1755 | 257061 | 4085107 | 1.01E-03 | 1.53E-04 | 8.29E-05 |
| 1756 | 257062.7 | 4085152 | 1.08E-03 | 1.65E-04 | 8.90E-05 |
| 1757 | 256963.7 | 4084957 | 5.72E-04 | 8.71E-05 | 4.71E-05 |
| 1758 | 256978.9 | 4084916 | 5.15E-04 | 7.84E-05 | 4.24E-05 |
| 1759 | 256994 | 4084875 | 4.64E-04 | 7.08E-05 | 3.83E-05 |
| 1760 | 257009.2 | 4084834 | 4.23E-04 | 6.45E-05 | 3.49E-05 |
| 1761 | 257024.3 | 4084793 | 3.88E-04 | 5.91E-05 | 3.20E-05 |
| 1762 | 257039.5 | 4084752 | 3.57E-04 | 5.44E-05 | 2.94E-05 |
| 1763 | 257054.6 | 4084711 | 3.31E-04 | 5.04E-05 | 2.73E-05 |
| 1764 | 257069.8 | 4084670 | 3.08E-04 | 4.70E-05 | 2.54E-05 |
| 1765 | 257084.9 | 4084630 | 2.88E-04 | 4.39E-05 | 2.38E-05 |
| 1766 | 257100.1 | 4084589 | 2.70E-04 | 4.11E-05 | 2.22E-05 |
| 1767 | 257135 | 4084539 | 2.53E-04 | 3.86E-05 | 2.09E-05 |
| 1768 | 257174.6 | 4084520 | 2.56E-04 | 3.89E-05 | 2.11E-05 |
| 1769 | 257214.2 | 4084502 | 2.59E-04 | 3.95E-05 | 2.14E-05 |
| 1770 | 257253.8 | 4084484 | 2.64E-04 | 4.02E-05 | 2.17E-05 |
| 1771 | 257293.5 | 4084465 | 2.68E-04 | 4.08E-05 | 2.21E-05 |
| 1772 | 257333.1 | 4084447 | 2.71E-04 | 4.12E-05 | 2.23E-05 |
| 1773 | 257372.7 | 4084429 | 2.72E-04 | 4.15E-05 | 2.24E-05 |
| 1774 | 257412.3 | 4084410 | 2.73E-04 | 4.16E-05 | 2.25E-05 |
| 1775 | 257451.9 | 4084392 | 2.74E-04 | 4.17E-05 | 2.26E-05 |
| 1776 | 257491.5 | 4084374 | 2.75E-04 | 4.19E-05 | 2.26E-05 |
| 1777 | 256957 | 4085000 | 6.40E-04 | 9.75E-05 | 5.27E-05 |
| 1778 | 256958.6 | 4085044 | 7.12E-04 | 1.09E-04 | 5.87E-05 |
| 1779 | 256960.3 | 4085089 | 7.72E-04 | 1.18E-04 | 6.36E-05 |

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| 1686 | 257360 | 4085074 | 3.22E-03 | 4.91E-04 | 2.66E-04 |
| 1687 | 257361.7 | 4085118 | 4.03E-03 | 6.14E-04 | 3.32E-04 |
| 1688 | 257363.3 | 4085163 | 4.77E-03 | 7.26E-04 | 3.93E-04 |
| 1689 | 257313.3 | 4084944 | 1.29E-03 | 1.96E-04 | 1.06E-04 |
| 1690 | 257328 | 4084905 | 1.10E-03 | 1.68E-04 | 9.07E-05 |
| 1691 | 257342.7 | 4084865 | 9.55E-04 | 1.45E-04 | 7.87E-05 |
| 1692 | 257357.5 | 4084825 | 8.40E-04 | 1.28E-04 | 6.93E-05 |
| 1693 | 257391.4 | 4084776 | 7.53E-04 | 1.15E-04 | 6.21E-05 |
| 1694 | 257429.9 | 4084759 | 7.71E-04 | 1.17E-04 | 6.36E-05 |
| 1695 | 257468.5 | 4084741 | 7.88E-04 | 1.20E-04 | 6.49E-05 |
| 1696 | 257507 | 4084723 | 8.09E-04 | 1.23E-04 | 6.67E-05 |
| 1697 | 257306.7 | 4084987 | 1.57E-03 | 2.39E-04 | 1.29E-04 |
| 1698 | 257307.6 | 4085009 | 1.75E-03 | 2.67E-04 | 1.44E-04 |
| 1699 | 257309.2 | 4085053 | 2.15E-03 | 3.28E-04 | 1.78E-04 |
| 1700 | 257310.9 | 4085098 | 2.62E-03 | 3.99E-04 | 2.16E-04 |
| 1701 | 257312.5 | 4085143 | 3.13E-03 | 4.77E-04 | 2.58E-04 |
| 1702 | 257263.2 | 4084947 | 1.10E-03 | 1.67E-04 | 9.04E-05 |
| 1703 | 257277.6 | 4084908 | 9.51E-04 | 1.45E-04 | 7.84E-05 |
| 1704 | 257292.1 | 4084869 | 8.36E-04 | 1.27E-04 | 6.89E-05 |
| 1705 | 257306.6 | 4084829 | 7.45E-04 | 1.13E-04 | 6.14E-05 |
| 1706 | 257321 | 4084790 | 6.69E-04 | 1.02E-04 | 5.52E-05 |
| 1707 | 257354.4 | 4084743 | 6.09E-04 | 9.28E-05 | 5.02E-05 |
| 1708 | 257392.2 | 4084725 | 6.20E-04 | 9.45E-05 | 5.11E-05 |
| 1709 | 257430 | 4084708 | 6.30E-04 | 9.60E-05 | 5.19E-05 |
| 1710 | 257467.8 | 4084690 | 6.41E-04 | 9.77E-05 | 5.28E-05 |
| 1711 | 257505.6 | 4084673 | 6.56E-04 | 9.99E-05 | 5.41E-05 |
| 1712 | 257256.8 | 4084988 | 1.31E-03 | 1.99E-04 | 1.08E-04 |
| 1713 | 257258.4 | 4085033 | 1.58E-03 | 2.40E-04 | 1.30E-04 |
| 1714 | 257260.1 | 4085078 | 1.86E-03 | 2.84E-04 | 1.54E-04 |
| 1715 | 257261.7 | 4085122 | 2.18E-03 | 3.32E-04 | 1.79E-04 |
| 1716 | 257263.4 | 4085167 | 2.53E-03 | 3.85E-04 | 2.08E-04 |
| 1717 | 257163.6 | 4084949 | 8.40E-04 | 1.28E-04 | 6.92E-05 |
| 1718 | 257178.7 | 4084909 | 7.38E-04 | 1.12E-04 | 6.08E-05 |
| 1719 | 257193.9 | 4084868 | 6.53E-04 | 9.95E-05 | 5.38E-05 |
| 1720 | 257209 | 4084827 | 5.87E-04 | 8.94E-05 | 4.83E-05 |
| 1721 | 257224.2 | 4084786 | 5.32E-04 | 8.11E-05 | 4.39E-05 |
| 1722 | 257239.3 | 4084745 | 4.86E-04 | 7.41E-05 | 4.01E-05 |
| 1723 | 257254.5 | 4084704 | 4.45E-04 | 6.77E-05 | 3.66E-05 |
| 1724 | 257281.9 | 4084674 | 4.28E-04 | 6.51E-05 | 3.52E-05 |
| 1725 | 257321.5 | 4084656 | 4.33E-04 | 6.60E-05 | 3.57E-05 |
| 1726 | 257361.1 | 4084638 | 4.39E-04 | 6.69E-05 | 3.62E-05 |
| 1727 | 257400.7 | 4084619 | 4.45E-04 | 6.77E-05 | 3.66E-05 |
| 1728 | 257440.3 | 4084601 | 4.50E-04 | 6.86E-05 | 3.71E-05 |
| 1729 | 257479.9 | 4084583 | 4.59E-04 | 6.99E-05 | 3.78E-05 |
| 1730 | 257156.8 | 4084992 | 9.74E-04 | 1.48E-04 | 8.03E-05 |
| 1731 | 257158.5 | 4085037 | 1.13E-03 | 1.72E-04 | 9.33E-05 |
| 1732 | 257160.1 | 4085081 | 1.28E-03 | 1.95E-04 | 1.06E-04 |

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| 1639 | 257518.5 | 4083455 | 7.78E-05 | 1.19E-05 | 6.41E-06 |
| 1640 | 257494.1 | 4083456 | 7.69E-05 | 1.17E-05 | 6.34E-06 |
| 1641 | 257530.8 | 4084956 | 5.88E-03 | 8.96E-04 | 4.85E-04 |
| 1642 | 257532.4 | 4085001 | 1.56E-02 | 2.37E-03 | 1.28E-03 |
| 1643 | 257534.1 | 4085045 | 2.48E-02 | 3.77E-03 | 2.04E-03 |
| 1644 | 257534.9 | 4085067 | 2.77E-02 | 4.22E-03 | 2.28E-03 |
| 1645 | 257536.5 | 4085112 | 3.11E-02 | 4.74E-03 | 2.57E-03 |
| 1646 | 257538.2 | 4085157 | 3.01E-02 | 4.59E-03 | 2.48E-03 |
| 1647 | 257512.4 | 4084939 | 3.68E-03 | 5.60E-04 | 3.03E-04 |
| 1648 | 257506.6 | 4084979 | 6.17E-03 | 9.40E-04 | 5.09E-04 |
| 1649 | 257508.2 | 4085024 | 1.18E-02 | 1.79E-03 | 9.70E-04 |
| 1650 | 257509.9 | 4085068 | 1.68E-02 | 2.56E-03 | 1.38E-03 |
| 1651 | 257511.5 | 4085113 | 1.98E-02 | 3.02E-03 | 1.64E-03 |
| 1652 | 257513.2 | 4085157 | 2.04E-02 | 3.10E-03 | 1.68E-03 |
| 1653 | 257487.4 | 4084940 | 3.03E-03 | 4.62E-04 | 2.50E-04 |
| 1654 | 257518 | 4084896 | 2.43E-03 | 3.70E-04 | 2.00E-04 |
| 1655 | 257481.6 | 4084980 | 4.55E-03 | 6.94E-04 | 3.75E-04 |
| 1656 | 257483.3 | 4085025 | 7.73E-03 | 1.18E-03 | 6.38E-04 |
| 1657 | 257484.9 | 4085069 | 1.13E-02 | 1.72E-03 | 9.30E-04 |
| 1658 | 257486.6 | 4085114 | 1.38E-02 | 2.11E-03 | 1.14E-03 |
| 1659 | 257488.2 | 4085158 | 1.49E-02 | 2.26E-03 | 1.22E-03 |
| 1660 | 257462.4 | 4084941 | 2.57E-03 | 3.92E-04 | 2.12E-04 |
| 1661 | 257475.7 | 4084905 | 2.06E-03 | 3.13E-04 | 1.70E-04 |
| 1662 | 257499.6 | 4084879 | 1.91E-03 | 2.90E-04 | 1.57E-04 |
| 1663 | 257456.6 | 4084981 | 3.61E-03 | 5.50E-04 | 2.98E-04 |
| 1664 | 257458.3 | 4085026 | 5.60E-03 | 8.54E-04 | 4.62E-04 |
| 1665 | 257459.1 | 4085048 | 6.84E-03 | 1.04E-03 | 5.64E-04 |
| 1666 | 257460.8 | 4085092 | 9.23E-03 | 1.41E-03 | 7.61E-04 |
| 1667 | 257462.4 | 4085137 | 1.09E-02 | 1.66E-03 | 8.97E-04 |
| 1668 | 257412.5 | 4084943 | 1.96E-03 | 2.98E-04 | 1.61E-04 |
| 1669 | 257425.7 | 4084907 | 1.63E-03 | 2.48E-04 | 1.34E-04 |
| 1670 | 257439 | 4084871 | 1.38E-03 | 2.10E-04 | 1.14E-04 |
| 1671 | 257462.9 | 4084845 | 1.30E-03 | 1.98E-04 | 1.07E-04 |
| 1672 | 257497.6 | 4084829 | 1.35E-03 | 2.06E-04 | 1.11E-04 |
| 1673 | 257406.7 | 4084983 | 2.54E-03 | 3.87E-04 | 2.10E-04 |
| 1674 | 257408.3 | 4085027 | 3.51E-03 | 5.35E-04 | 2.90E-04 |
| 1675 | 257410 | 4085072 | 4.78E-03 | 7.29E-04 | 3.94E-04 |
| 1676 | 257411.6 | 4085117 | 6.10E-03 | 9.30E-04 | 5.03E-04 |
| 1677 | 257413.3 | 4085161 | 7.07E-03 | 1.08E-03 | 5.83E-04 |
| 1678 | 257363.4 | 4084942 | 1.55E-03 | 2.36E-04 | 1.28E-04 |
| 1679 | 257378.6 | 4084901 | 1.29E-03 | 1.97E-04 | 1.07E-04 |
| 1680 | 257393.7 | 4084860 | 1.10E-03 | 1.68E-04 | 9.08E-05 |
| 1681 | 257428.7 | 4084810 | 9.66E-04 | 1.47E-04 | 7.97E-05 |
| 1682 | 257468.3 | 4084792 | 9.96E-04 | 1.52E-04 | 8.21E-05 |
| 1683 | 257507.9 | 4084774 | 1.03E-03 | 1.57E-04 | 8.49E-05 |
| 1684 | 257356.7 | 4084985 | 1.95E-03 | 2.96E-04 | 1.60E-04 |
| 1685 | 257358.3 | 4085029 | 2.52E-03 | 3.84E-04 | 2.08E-04 |

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| 1592 | 259709.1 | 4084549 | 5.81E-04 | 8.86E-05 | 4.79E-05 |
| 1593 | 259719 | 4084571 | 5.63E-04 | 8.58E-05 | 4.64E-05 |
| 1594 | 259729 | 4084593 | 5.44E-04 | 8.29E-05 | 4.49E-05 |
| 1595 | 259738.9 | 4084615 | 5.25E-04 | 8.00E-05 | 4.33E-05 |
| 1596 | 259748.8 | 4084637 | 5.06E-04 | 7.72E-05 | 4.18E-05 |
| 1597 | 259758.8 | 4084659 | 4.89E-04 | 7.45E-05 | 4.03E-05 |
| 1598 | 259768.7 | 4084681 | 4.73E-04 | 7.20E-05 | 3.90E-05 |
| 1599 | 259778.6 | 4084703 | 4.58E-04 | 6.98E-05 | 3.78E-05 |
| 1600 | 259788.5 | 4084725 | 4.45E-04 | 6.78E-05 | 3.67E-05 |
| 1601 | 259798.5 | 4084747 | 4.33E-04 | 6.60E-05 | 3.57E-05 |
| 1602 | 259808.4 | 4084769 | 4.22E-04 | 6.43E-05 | 3.48E-05 |
| 1603 | 259818.3 | 4084791 | 4.11E-04 | 6.26E-05 | 3.39E-05 |
| 1604 | 259828.3 | 4084812 | 4.00E-04 | 6.09E-05 | 3.30E-05 |
| 1605 | 259838.2 | 4084834 | 3.89E-04 | 5.92E-05 | 3.20E-05 |
| 1606 | 259848.1 | 4084856 | 3.77E-04 | 5.74E-05 | 3.11E-05 |
| 1607 | 258297.1 | 4083423 | 1.36E-04 | 2.07E-05 | 1.12E-05 |
| 1608 | 258272.7 | 4083424 | 1.33E-04 | 2.02E-05 | 1.10E-05 |
| 1609 | 258248.4 | 4083425 | 1.30E-04 | 1.99E-05 | 1.07E-05 |
| 1610 | 258224.1 | 4083426 | 1.28E-04 | 1.95E-05 | 1.06E-05 |
| 1611 | 258199.7 | 4083427 | 1.26E-04 | 1.91E-05 | 1.04E-05 |
| 1612 | 258175.4 | 4083428 | 1.23E-04 | 1.88E-05 | 1.02E-05 |
| 1613 | 258151.1 | 4083429 | 1.21E-04 | 1.85E-05 | 9.99E-06 |
| 1614 | 258126.7 | 4083430 | 1.19E-04 | 1.81E-05 | 9.81E-06 |
| 1615 | 258102.4 | 4083431 | 1.17E-04 | 1.78E-05 | 9.63E-06 |
| 1616 | 258078.1 | 4083432 | 1.15E-04 | 1.75E-05 | 9.44E-06 |
| 1617 | 258053.8 | 4083433 | 1.12E-04 | 1.71E-05 | 9.27E-06 |
| 1618 | 258029.4 | 4083434 | 1.10E-04 | 1.68E-05 | 9.09E-06 |
| 1619 | 258005.1 | 4083435 | 1.08E-04 | 1.65E-05 | 8.92E-06 |
| 1620 | 257980.8 | 4083436 | 1.06E-04 | 1.61E-05 | 8.73E-06 |
| 1621 | 257956.4 | 4083437 | 1.04E-04 | 1.58E-05 | 8.56E-06 |
| 1622 | 257932.1 | 4083438 | 1.02E-04 | 1.55E-05 | 8.40E-06 |
| 1623 | 257907.8 | 4083439 | 9.99E-05 | 1.52E-05 | 8.23E-06 |
| 1624 | 257883.4 | 4083440 | 9.80E-05 | 1.49E-05 | 8.07E-06 |
| 1625 | 257859.1 | 4083441 | 9.62E-05 | 1.47E-05 | 7.93E-06 |
| 1626 | 257834.8 | 4083442 | 9.44E-05 | 1.44E-05 | 7.78E-06 |
| 1627 | 257810.4 | 4083443 | 9.28E-05 | 1.41E-05 | 7.65E-06 |
| 1628 | 257786.1 | 4083444 | 9.11E-05 | 1.39E-05 | 7.51E-06 |
| 1629 | 257761.8 | 4083445 | 8.97E-05 | 1.37E-05 | 7.39E-06 |
| 1630 | 257737.4 | 4083446 | 8.82E-05 | 1.34E-05 | 7.27E-06 |
| 1631 | 257713.1 | 4083447 | 8.68E-05 | 1.32E-05 | 7.16E-06 |
| 1632 | 257688.8 | 4083448 | 8.55E-05 | 1.30E-05 | 7.05E-06 |
| 1633 | 257664.4 | 4083449 | 8.43E-05 | 1.28E-05 | 6.95E-06 |
| 1634 | 257640.1 | 4083450 | 8.31E-05 | 1.27E-05 | 6.85E-06 |
| 1635 | 257615.8 | 4083451 | 8.19E-05 | 1.25E-05 | 6.75E-06 |
| 1636 | 257591.4 | 4083452 | 8.09E-05 | 1.23E-05 | 6.67E-06 |
| 1637 | 257567.1 | 4083453 | 7.99E-05 | 1.22E-05 | 6.58E-06 |
| 1638 | 257542.8 | 4083454 | 7.88E-05 | 1.20E-05 | 6.50E-06 |

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| 1545 | 259042.6 | 4083699 | 4.98E-04 | 7.58E-05 | 4.10E-05 |
| 1546 | 259065.2 | 4083708 | 5.15E-04 | 7.84E-05 | 4.24E-05 |
| 1547 | 259087.8 | 4083716 | 5.31E-04 | 8.10E-05 | 4.38E-05 |
| 1548 | 259110.3 | 4083724 | 5.48E-04 | 8.35E-05 | 4.52E-05 |
| 1549 | 259132.9 | 4083733 | 5.64E-04 | 8.59E-05 | 4.65E-05 |
| 1550 | 259155.5 | 4083741 | 5.80E-04 | 8.83E-05 | 4.78E-05 |
| 1551 | 259178.1 | 4083750 | 5.95E-04 | 9.06E-05 | 4.90E-05 |
| 1552 | 259200.7 | 4083758 | 6.09E-04 | 9.28E-05 | 5.02E-05 |
| 1553 | 259223.3 | 4083766 | 6.22E-04 | 9.48E-05 | 5.13E-05 |
| 1554 | 259245.9 | 4083775 | 6.34E-04 | 9.66E-05 | 5.23E-05 |
| 1555 | 259268.5 | 4083783 | 6.45E-04 | 9.83E-05 | 5.32E-05 |
| 1556 | 259291.1 | 4083791 | 6.55E-04 | 9.98E-05 | 5.40E-05 |
| 1557 | 259313.7 | 4083800 | 6.64E-04 | 1.01E-04 | 5.47E-05 |
| 1558 | 259336.3 | 4083808 | 6.72E-04 | 1.02E-04 | 5.54E-05 |
| 1559 | 259358.8 | 4083816 | 6.78E-04 | 1.03E-04 | 5.59E-05 |
| 1560 | 259391.4 | 4083847 | 7.01E-04 | 1.07E-04 | 5.78E-05 |
| 1561 | 259401.3 | 4083869 | 7.17E-04 | 1.09E-04 | 5.91E-05 |
| 1562 | 259411.2 | 4083891 | 7.33E-04 | 1.12E-04 | 6.04E-05 |
| 1563 | 259421.2 | 4083913 | 7.47E-04 | 1.14E-04 | 6.16E-05 |
| 1564 | 259431.1 | 4083935 | 7.61E-04 | 1.16E-04 | 6.27E-05 |
| 1565 | 259441 | 4083956 | 7.73E-04 | 1.18E-04 | 6.37E-05 |
| 1566 | 259450.9 | 4083978 | 7.83E-04 | 1.19E-04 | 6.46E-05 |
| 1567 | 259460.9 | 4084000 | 7.92E-04 | 1.21E-04 | 6.53E-05 |
| 1568 | 259470.8 | 4084022 | 8.00E-04 | 1.22E-04 | 6.59E-05 |
| 1569 | 259480.7 | 4084044 | 8.06E-04 | 1.23E-04 | 6.64E-05 |
| 1570 | 259490.7 | 4084066 | 8.09E-04 | 1.23E-04 | 6.67E-05 |
| 1571 | 259500.6 | 4084088 | 8.11E-04 | 1.24E-04 | 6.69E-05 |
| 1572 | 259510.5 | 4084110 | 8.11E-04 | 1.24E-04 | 6.68E-05 |
| 1573 | 259520.4 | 4084132 | 8.09E-04 | 1.23E-04 | 6.67E-05 |
| 1574 | 259530.4 | 4084154 | 8.05E-04 | 1.23E-04 | 6.63E-05 |
| 1575 | 259540.3 | 4084176 | 7.99E-04 | 1.22E-04 | 6.58E-05 |
| 1576 | 259550.2 | 4084198 | 7.91E-04 | 1.20E-04 | 6.52E-05 |
| 1577 | 259560.2 | 4084220 | 7.82E-04 | 1.19E-04 | 6.44E-05 |
| 1578 | 259570.1 | 4084242 | 7.71E-04 | 1.17E-04 | 6.35E-05 |
| 1579 | 259580 | 4084264 | 7.59E-04 | 1.16E-04 | 6.25E-05 |
| 1580 | 259590 | 4084286 | 7.46E-04 | 1.14E-04 | 6.15E-05 |
| 1581 | 259599.9 | 4084308 | 7.32E-04 | 1.12E-04 | 6.04E-05 |
| 1582 | 259609.8 | 4084330 | 7.19E-04 | 1.09E-04 | 5.92E-05 |
| 1583 | 259619.7 | 4084352 | 7.05E-04 | 1.07E-04 | 5.81E-05 |
| 1584 | 259629.7 | 4084374 | 6.92E-04 | 1.05E-04 | 5.70E-05 |
| 1585 | 259639.6 | 4084395 | 6.79E-04 | 1.03E-04 | 5.60E-05 |
| 1586 | 259649.5 | 4084417 | 6.69E-04 | 1.02E-04 | 5.51E-05 |
| 1587 | 259659.5 | 4084439 | 6.56E-04 | 9.99E-05 | 5.41E-05 |
| 1588 | 259669.4 | 4084461 | 6.43E-04 | 9.80E-05 | 5.30E-05 |
| 1589 | 259679.3 | 4084483 | 6.29E-04 | 9.58E-05 | 5.19E-05 |
| 1590 | 259689.2 | 4084505 | 6.14E-04 | 9.36E-05 | 5.06E-05 |
| 1591 | 259699.2 | 4084527 | 5.99E-04 | 9.12E-05 | 4.93E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 1498 | 257843 | 4083642 | 1.16E-04 | 1.77E-05 | 9.55E-06 |
| 1499 | 257818.6 | 4083643 | 1.14E-04 | 1.73E-05 | 9.37E-06 |
| 1500 | 257794.3 | 4083644 | 1.12E-04 | 1.70E-05 | 9.20E-06 |
| 1501 | 257770 | 4083645 | 1.10E-04 | 1.67E-05 | 9.04E-06 |
| 1502 | 257745.7 | 4083646 | 1.08E-04 | 1.64E-05 | 8.88E-06 |
| 1503 | 257721.3 | 4083647 | 1.06E-04 | 1.62E-05 | 8.75E-06 |
| 1504 | 257697 | 4083648 | 1.05E-04 | 1.59E-05 | 8.62E-06 |
| 1505 | 257672.7 | 4083649 | 1.03E-04 | 1.57E-05 | 8.50E-06 |
| 1506 | 257648.3 | 4083650 | 1.02E-04 | 1.55E-05 | 8.39E-06 |
| 1507 | 257624 | 4083651 | 1.00E-04 | 1.53E-05 | 8.28E-06 |
| 1508 | 257599.7 | 4083652 | 9.93E-05 | 1.51E-05 | 8.18E-06 |
| 1509 | 257575.3 | 4083653 | 9.81E-05 | 1.49E-05 | 8.09E-06 |
| 1510 | 257551 | 4083654 | 9.69E-05 | 1.48E-05 | 7.99E-06 |
| 1511 | 257526.7 | 4083655 | 9.59E-05 | 1.46E-05 | 7.90E-06 |
| 1512 | 257502.3 | 4083656 | 9.47E-05 | 1.44E-05 | 7.81E-06 |
| 1513 | 258319.7 | 4083432 | 1.40E-04 | 2.13E-05 | 1.15E-05 |
| 1514 | 258342.3 | 4083440 | 1.44E-04 | 2.20E-05 | 1.19E-05 |
| 1515 | 258364.8 | 4083448 | 1.49E-04 | 2.27E-05 | 1.23E-05 |
| 1516 | 258387.4 | 4083457 | 1.54E-04 | 2.35E-05 | 1.27E-05 |
| 1517 | 258410 | 4083465 | 1.59E-04 | 2.43E-05 | 1.31E-05 |
| 1518 | 258432.6 | 4083474 | 1.65E-04 | 2.52E-05 | 1.36E-05 |
| 1519 | 258455.2 | 4083482 | 1.71E-04 | 2.61E-05 | 1.41E-05 |
| 1520 | 258477.8 | 4083490 | 1.78E-04 | 2.70E-05 | 1.46E-05 |
| 1521 | 258500.4 | 4083499 | 1.84E-04 | 2.81E-05 | 1.52E-05 |
| 1522 | 258523 | 4083507 | 1.91E-04 | 2.92E-05 | 1.58E-05 |
| 1523 | 258545.6 | 4083515 | 1.99E-04 | 3.03E-05 | 1.64E-05 |
| 1524 | 258568.2 | 4083524 | 2.07E-04 | 3.16E-05 | 1.71E-05 |
| 1525 | 258590.8 | 4083532 | 2.16E-04 | 3.29E-05 | 1.78E-05 |
| 1526 | 258613.3 | 4083540 | 2.25E-04 | 3.43E-05 | 1.86E-05 |
| 1527 | 258635.9 | 4083549 | 2.35E-04 | 3.58E-05 | 1.94E-05 |
| 1528 | 258658.5 | 4083557 | 2.46E-04 | 3.75E-05 | 2.03E-05 |
| 1529 | 258681.1 | 4083566 | 2.57E-04 | 3.92E-05 | 2.12E-05 |
| 1530 | 258703.7 | 4083574 | 2.69E-04 | 4.10E-05 | 2.22E-05 |
| 1531 | 258726.3 | 4083582 | 2.81E-04 | 4.29E-05 | 2.32E-05 |
| 1532 | 258748.9 | 4083591 | 2.94E-04 | 4.48E-05 | 2.43E-05 |
| 1533 | 258771.5 | 4083599 | 3.08E-04 | 4.69E-05 | 2.54E-05 |
| 1534 | 258794.1 | 4083607 | 3.22E-04 | 4.90E-05 | 2.65E-05 |
| 1535 | 258816.7 | 4083616 | 3.36E-04 | 5.12E-05 | 2.77E-05 |
| 1536 | 258839.3 | 4083624 | 3.51E-04 | 5.34E-05 | 2.89E-05 |
| 1537 | 258861.8 | 4083632 | 3.66E-04 | 5.57E-05 | 3.02E-05 |
| 1538 | 258884.4 | 4083641 | 3.81E-04 | 5.81E-05 | 3.14E-05 |
| 1539 | 258907 | 4083649 | 3.97E-04 | 6.05E-05 | 3.27E-05 |
| 1540 | 258929.6 | 4083658 | 4.14E-04 | 6.30E-05 | 3.41E-05 |
| 1541 | 258952.2 | 4083666 | 4.30E-04 | 6.55E-05 | 3.54E-05 |
| 1542 | 258974.8 | 4083674 | 4.47E-04 | 6.81E-05 | 3.68E-05 |
| 1543 | 258997.4 | 4083683 | 4.64E-04 | 7.06E-05 | 3.82E-05 |
| 1544 | 259020 | 4083691 | 4.81E-04 | 7.32E-05 | 3.96E-05 |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5044 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5045 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5046 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5047 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5048 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5049 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5050 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5051 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5052 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5053 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5054 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5055 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5056 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5057 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5058 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5059 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5060 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5061 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5062 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5063 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5064 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5065 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5066 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5067 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5068 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5069 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5070 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5071 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5072 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5073 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5074 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5075 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5076 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5077 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5078 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5079 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5080 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5081 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5082 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5083 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5084 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5085 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5086 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5087 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5088 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5089 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5090 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5091 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5092 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5093 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5094 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5095 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5096 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5097 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5098 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5099 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5100 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5101 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5102 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5103 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5104 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5105 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5106 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5107 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5108 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5109 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5110 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5111 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5112 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5113 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5114 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5115 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5116 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5117 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5118 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5119 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5120 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5121 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5122 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5123 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5124 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5125 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5126 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5127 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5128 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5129 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5147 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5148 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5149 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5150 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5151 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5152 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5153 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5154 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5155 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5156 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5157 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5158 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5159 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5160 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5161 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5162 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5163 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5164 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5165 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5166 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5167 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5168 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5169 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5170 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5171 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5172 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5173 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5174 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5175 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5176 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5177 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5178 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5179 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5180 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5181 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5182 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5183 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5184 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5185 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5186 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5187 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5188 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5189 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5190 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5191 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5192 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5193 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5194 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5195 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5196 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5197 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5198 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5199 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5200 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5201 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5202 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5203 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5204 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5205 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5206 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5207 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5208 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5209 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5210 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5211 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5212 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5213 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5214 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5215 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5216 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5217 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5218 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5219 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5220 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5221 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5222 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5223 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5224 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5225 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5226 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5227 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5228 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5229 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5230 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5231 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5232 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5233 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5234 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5235 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5236 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5250 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5251 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5252 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5253 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5254 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5255 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5256 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5257 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5258 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5259 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5260 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5261 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5262 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5263 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5264 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5265 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5266 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5267 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5268 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5269 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5270 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5271 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5272 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5273 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5274 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5275 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5276 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5277 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5278 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5279 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5280 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5281 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5282 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5283 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5284 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5285 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5286 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5287 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5288 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5289 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5290 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5291 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5292 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5293 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5294 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5295 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5296 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5297 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5298 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5299 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5300 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5301 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5302 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5303 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5304 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5305 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5306 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5307 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5308 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5309 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5310 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5311 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5312 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5313 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5314 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5325 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5316 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5317 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5318 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5319 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5320 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5321 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5322 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5323 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5324 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5325 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5326 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5327 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5328 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5329 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5330 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5331 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5332 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5333 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5334 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5335 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S353 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S354 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S355 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S356 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S357 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S358 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S359 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S360 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S361 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S362 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S363 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S364 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S365 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S366 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S367 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S368 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S369 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S370 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S371 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S372 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S373 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S374 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S375 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S376 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S377 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S378 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S379 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S380 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S381 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S382 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S383 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S384 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S385 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S386 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S387 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S388 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S389 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S390 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S391 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S392 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S393 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S394 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S395 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S396 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S397 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S398 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S399 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S400 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S401 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S402 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S403 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S404 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S405 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S406 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S407 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S408 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S409 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S410 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S411 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S412 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S413 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S414 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S415 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S416 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S417 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S418 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S419 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S420 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S421 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S422 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S423 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S424 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S425 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S426 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S427 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S428 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S429 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S430 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S431 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S432 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S433 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S434 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S435 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S436 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S437 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S438 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S439 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S440 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S441 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S442 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| S443 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5456 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5457 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5458 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5459 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5460 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5461 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5462 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5463 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5464 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5465 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5466 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5467 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5468 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5469 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5470 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5471 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5472 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5473 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5474 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5475 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5476 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5477 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5478 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5479 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5480 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5481 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5482 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5483 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5484 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5485 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5486 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5487 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5488 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5489 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5490 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5491 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5492 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5493 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5494 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5495 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5496 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5497 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5498 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5499 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5500 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5501 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5502 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5503 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5504 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5505 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5506 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5507 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5508 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5509 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5510 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5511 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5512 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5513 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5514 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5515 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5516 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5517 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5518 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5519 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5520 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5521 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5522 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5523 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5524 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5525 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5526 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5527 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5528 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5529 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5530 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5531 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5532 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5533 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5534 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5535 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5536 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5537 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5538 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5539 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5540 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5541 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5559 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5560 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5561 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5562 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5563 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5564 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5565 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5566 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5567 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5568 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5569 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5570 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5571 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5572 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5573 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5574 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5575 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5576 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5577 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5578 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5579 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5580 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5581 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5582 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5583 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5584 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5585 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5586 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5587 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5588 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5589 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5590 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5591 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5592 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5593 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5594 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5595 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5596 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5597 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5598 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5599 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5600 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5601 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5602 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5603 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5604 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5605 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5606 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5607 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5608 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5609 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5610 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5611 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5612 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5613 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5614 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5615 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5616 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5617 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5618 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5619 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5620 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5621 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5622 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5623 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5624 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5625 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5626 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5627 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5628 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5629 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5630 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5631 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5632 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5633 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5634 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5635 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5636 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5637 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5638 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5639 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5640 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5641 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5642 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5643 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5644 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5662 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5663 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5664 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5665 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5666 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5667 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5668 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5669 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5670 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5671 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5672 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5673 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5674 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5675 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5676 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5677 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5678 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5679 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5680 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5681 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5682 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5683 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5684 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5685 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5686 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5687 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5688 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5689 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5690 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5691 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5692 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5693 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5694 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5695 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5696 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5697 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5698 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5699 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5700 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5701 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5702 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5703 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5704 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5705 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5706 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5707 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5708 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5709 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5710 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5711 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5712 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5713 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5714 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5715 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5716 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5717 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5718 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5719 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5720 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5721 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5722 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5723 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5724 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5725 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5726 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5727 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5728 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5729 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5730 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5731 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5732 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5733 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5734 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5735 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5736 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5737 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5738 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5739 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5740 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5741 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5742 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5743 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5744 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5745 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5746 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5747 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5765 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5766 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5767 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5768 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5769 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5770 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5771 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5772 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5773 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5774 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5775 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5776 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5777 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5778 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5779 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5780 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5781 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5782 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5783 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5784 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5785 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5786 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5787 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5788 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5789 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5790 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5791 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5792 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5793 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5794 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5795 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5796 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5797 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5798 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5799 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5800 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5801 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5802 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5803 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5804 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5805 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5806 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5807 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5808 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5809 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5810 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5811 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5812 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5813 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5814 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5815 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5816 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5817 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5818 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5819 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5820 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5821 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5822 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5823 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5824 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5825 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5826 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5827 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5828 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5829 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5830 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5831 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5832 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5833 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5834 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5835 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5836 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5837 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5838 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5839 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5840 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5841 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5842 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5843 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5844 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5845 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5846 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5847 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5848 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5849 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5850 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5868 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5869 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5870 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5871 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5872 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5873 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5874 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5875 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5876 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5877 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5878 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5879 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5880 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5881 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5882 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5883 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5884 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5885 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5886 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5887 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5888 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5889 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5890 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5891 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5892 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5893 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5894 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5895 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5896 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5897 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5898 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5899 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5900 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5901 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5902 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5903 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5904 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5905 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5906 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5907 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5908 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5909 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5910 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5911 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5912 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5913 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5914 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5915 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5916 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5917 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5918 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5919 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5920 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5921 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5922 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5923 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5924 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5925 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5926 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5927 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5928 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5929 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5930 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5931 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5932 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5933 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5934 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5935 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5936 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5937 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5938 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5939 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5940 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5941 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5942 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5943 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5944 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5945 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5946 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5947 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5948 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5949 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5950 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5951 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5952 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5953 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5971 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5972 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5973 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5974 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5975 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5976 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5977 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5978 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5979 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5980 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5981 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5982 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5983 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5984 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5985 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5986 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5987 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5988 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5989 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5990 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5991 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5992 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5993 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5994 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5995 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5996 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5997 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5998 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 5999 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6000 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6001 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6002 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6003 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6004 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6005 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6006 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6007 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6008 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6009 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6010 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6011 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6012 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6013 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6014 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6015 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6016 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6017 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6018 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6019 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6020 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6021 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6022 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6023 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6024 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6025 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6026 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6027 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6028 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6029 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6030 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6031 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6032 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6033 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6034 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6035 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6036 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6037 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6038 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6039 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6040 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6041 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6042 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6043 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6044 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6045 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6046 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6047 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6048 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6049 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6050 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6051 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6052 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6053 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6054 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6055 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6056 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6057 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6058 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6059 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6060 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6074 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6075 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6076 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6077 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6078 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6079 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6080 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6081 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6082 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6083 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6084 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6085 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6086 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6087 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6088 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6089 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6090 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6091 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6092 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6093 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6094 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6095 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6096 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6097 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6098 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6099 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6100 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6101 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6102 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6103 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6104 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6105 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6106 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6107 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6108 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6109 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6110 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6111 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6112 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6113 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6114 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6115 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6116 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6117 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6118 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6119 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6120 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6121 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6122 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6123 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6124 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6125 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6126 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6127 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6128 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6129 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6130 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6131 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6132 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6133 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6134 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6135 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6136 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6137 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6138 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6139 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6140 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6141 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6142 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6143 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6144 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6145 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6146 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6147 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6148 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6149 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6150 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6151 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6152 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6153 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6154 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6155 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6156 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6157 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6158 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6159 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6177 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6178 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6179 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6180 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6181 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6182 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6183 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6184 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6185 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6186 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6187 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6188 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6189 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6190 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6191 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6192 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6193 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6194 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6195 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6196 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6197 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6198 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6199 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6200 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6201 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6202 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6203 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6204 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6205 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6206 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6207 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6208 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6209 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6210 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6211 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6212 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6213 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6214 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6215 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6216 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6217 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6218 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6219 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6220 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6221 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6222 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6223 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6224 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6225 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6226 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6227 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6228 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6229 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6230 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6231 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6232 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6233 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6234 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6235 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6236 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6237 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6238 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6239 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6240 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6241 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6242 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6243 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6244 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6245 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6246 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6247 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6248 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6249 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6250 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6251 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6252 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6253 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6254 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6255 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6256 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6257 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6258 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6259 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6260 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6261 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6262 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6263 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6264 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6265 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6266 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6280 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6281 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6282 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6283 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6284 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6285 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6286 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6287 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6288 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6289 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6290 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6291 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6292 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6293 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6294 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6295 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6296 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6297 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6298 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6299 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6300 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6301 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6302 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6303 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6304 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6305 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6306 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6307 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 6308 | 0 | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

| | | | | | |
|---|---|---|---|---|---|
| | | | 7 | 258385.11 | 4084970.84 |
| | Max Yr | 2 | UnMitigated | T2L3 | T4 |
| | Row | 33 | 5.06E-02 | 7.71E-03 | 4.17E-03 |
| | | Col | 3 | 4 | 5 |
| | | Adjustment | 100% | 15% | 8% |
| | | | Year 2 | Year 2 | Year 2 |
| 1 | 258389.5 | 4085119 | 1.73E-02 | 2.63E-03 | 1.42E-03 |
| 2 | 258388.7 | 4085095 | 2.75E-02 | 4.19E-03 | 2.27E-03 |
| 3 | 258388 | 4085070 | 3.82E-02 | 5.81E-03 | 3.15E-03 |
| 4 | 258387.3 | 4085045 | 4.49E-02 | 6.84E-03 | 3.70E-03 |
| 5 | 258386.6 | 4085020 | 4.88E-02 | 7.43E-03 | 4.02E-03 |
| 6 | 258385.8 | 4084996 | 5.06E-02 | 7.71E-03 | 4.17E-03 |
| 7 | 258385.1 | 4084971 | 5.06E-02 | 7.71E-03 | 4.17E-03 |
| 8 | 258384.4 | 4084946 | 4.86E-02 | 7.40E-03 | 4.00E-03 |
| 9 | 258383.7 | 4084921 | 4.19E-02 | 6.38E-03 | 3.45E-03 |
| 10 | 258407.8 | 4085136 | 1.06E-02 | 1.62E-03 | 8.76E-04 |
| 11 | 258383.9 | 4085162 | 1.03E-02 | 1.56E-03 | 8.46E-04 |
| 12 | 258413.7 | 4085094 | 1.70E-02 | 2.58E-03 | 1.40E-03 |
| 13 | 258413 | 4085069 | 2.28E-02 | 3.47E-03 | 1.88E-03 |
| 14 | 258412.3 | 4085044 | 2.77E-02 | 4.22E-03 | 2.28E-03 |
| 15 | 258411.6 | 4085020 | 3.12E-02 | 4.76E-03 | 2.57E-03 |
| 16 | 258410.8 | 4084995 | 3.33E-02 | 5.08E-03 | 2.75E-03 |
| 17 | 258410.1 | 4084970 | 3.42E-02 | 5.20E-03 | 2.82E-03 |
| 18 | 258409.4 | 4084945 | 3.35E-02 | 5.10E-03 | 2.76E-03 |
| 19 | 258408.7 | 4084921 | 3.11E-02 | 4.73E-03 | 2.56E-03 |
| 20 | 258432.8 | 4085136 | 8.37E-03 | 1.28E-03 | 6.90E-04 |
| 21 | 258402.2 | 4085179 | 7.38E-03 | 1.12E-03 | 6.08E-04 |
| 22 | 258438.7 | 4085093 | 1.20E-02 | 1.83E-03 | 9.91E-04 |
| 23 | 258438 | 4085068 | 1.54E-02 | 2.35E-03 | 1.27E-03 |
| 24 | 258437.3 | 4085044 | 1.89E-02 | 2.87E-03 | 1.55E-03 |
| 25 | 258436.5 | 4085019 | 2.17E-02 | 3.30E-03 | 1.79E-03 |
| 26 | 258435.8 | 4084994 | 2.37E-02 | 3.61E-03 | 1.95E-03 |
| 27 | 258435.1 | 4084969 | 2.48E-02 | 3.78E-03 | 2.04E-03 |
| 28 | 258434.4 | 4084945 | 2.49E-02 | 3.80E-03 | 2.06E-03 |
| 29 | 258433.7 | 4084920 | 2.41E-02 | 3.67E-03 | 1.99E-03 |
| 30 | 258457.7 | 4085135 | 6.83E-03 | 1.04E-03 | 5.63E-04 |
| 31 | 258444.4 | 4085170 | 5.78E-03 | 8.80E-04 | 4.76E-04 |
| 32 | 258420.5 | 4085196 | 5.67E-03 | 8.64E-04 | 4.67E-04 |
| 33 | 258386.1 | 4085212 | 6.37E-03 | 9.70E-04 | 5.25E-04 |
| 34 | 258463.7 | 4085092 | 9.21E-03 | 1.40E-03 | 7.59E-04 |
| 35 | 258463 | 4085068 | 1.14E-02 | 1.74E-03 | 9.40E-04 |
| 36 | 258462.3 | 4085043 | 1.37E-02 | 2.09E-03 | 1.13E-03 |
| 37 | 258461.5 | 4085018 | 1.59E-02 | 2.43E-03 | 1.31E-03 |
| 38 | 258460.8 | 4084993 | 1.77E-02 | 2.69E-03 | 1.46E-03 |
| 39 | 258460.1 | 4084969 | 1.88E-02 | 2.87E-03 | 1.55E-03 |
| 40 | 258459.4 | 4084944 | 1.93E-02 | 2.94E-03 | 1.59E-03 |

| | | | | | |
|---|---|---|---|---|---|
| 41 | 258458.6 | 4084919 | 1.91E-02 | 2.91E-03 | 1.57E-03 |
| 42 | 258506.4 | 4085137 | 4.84E-03 | 7.37E-04 | 3.99E-04 |
| 43 | 258498.4 | 4085158 | 4.47E-03 | 6.81E-04 | 3.68E-04 |
| 44 | 258490.4 | 4085180 | 4.13E-03 | 6.29E-04 | 3.41E-04 |
| 45 | 258482.4 | 4085201 | 3.83E-03 | 5.84E-04 | 3.16E-04 |
| 46 | 258453.7 | 4085232 | 3.77E-03 | 5.75E-04 | 3.11E-04 |
| 47 | 258433.1 | 4085241 | 3.99E-03 | 6.09E-04 | 3.29E-04 |
| 48 | 258412.4 | 4085251 | 4.22E-03 | 6.43E-04 | 3.48E-04 |
| 49 | 258391.8 | 4085260 | 4.45E-03 | 6.77E-04 | 3.66E-04 |
| 50 | 258514.4 | 4085116 | 5.23E-03 | 7.96E-04 | 4.31E-04 |
| 51 | 258513.7 | 4085091 | 6.12E-03 | 9.32E-04 | 5.05E-04 |
| 52 | 258513 | 4085066 | 7.19E-03 | 1.10E-03 | 5.93E-04 |
| 53 | 258512.2 | 4085041 | 8.40E-03 | 1.28E-03 | 6.92E-04 |
| 54 | 258511.5 | 4085017 | 9.64E-03 | 1.47E-03 | 7.95E-04 |
| 55 | 258510.8 | 4084992 | 1.08E-02 | 1.64E-03 | 8.90E-04 |
| 56 | 258510.1 | 4084967 | 1.18E-02 | 1.79E-03 | 9.69E-04 |
| 57 | 258509.3 | 4084942 | 1.24E-02 | 1.90E-03 | 1.03E-03 |
| 58 | 258508.6 | 4084918 | 1.28E-02 | 1.95E-03 | 1.05E-03 |
| 59 | 258556.8 | 4085135 | 3.71E-03 | 5.65E-04 | 3.05E-04 |
| 60 | 258541.5 | 4085175 | 3.28E-03 | 5.00E-04 | 2.70E-04 |
| 61 | 258526.2 | 4085216 | 2.90E-03 | 4.42E-04 | 2.39E-04 |
| 62 | 258491.3 | 4085265 | 2.71E-03 | 4.12E-04 | 2.23E-04 |
| 63 | 258452 | 4085284 | 2.96E-03 | 4.52E-04 | 2.44E-04 |
| 64 | 258412.6 | 4085302 | 3.23E-03 | 4.92E-04 | 2.66E-04 |
| 65 | 258563.7 | 4085090 | 4.45E-03 | 6.79E-04 | 3.67E-04 |
| 66 | 258562.9 | 4085065 | 5.07E-03 | 7.72E-04 | 4.18E-04 |
| 67 | 258562.2 | 4085040 | 5.76E-03 | 8.78E-04 | 4.75E-04 |
| 68 | 258561.5 | 4085015 | 6.50E-03 | 9.91E-04 | 5.36E-04 |
| 69 | 258560.8 | 4084990 | 7.25E-03 | 1.10E-03 | 5.97E-04 |
| 70 | 258560 | 4084966 | 7.94E-03 | 1.21E-03 | 6.55E-04 |
| 71 | 258559.3 | 4084941 | 8.54E-03 | 1.30E-03 | 7.04E-04 |
| 72 | 258558.6 | 4084916 | 8.97E-03 | 1.37E-03 | 7.40E-04 |
| 73 | 258606 | 4085135 | 2.93E-03 | 4.46E-04 | 2.41E-04 |
| 74 | 258597.7 | 4085157 | 2.77E-03 | 4.22E-04 | 2.28E-04 |
| 75 | 258589.3 | 4085179 | 2.62E-03 | 3.99E-04 | 2.16E-04 |
| 76 | 258581 | 4085202 | 2.47E-03 | 3.76E-04 | 2.04E-04 |
| 77 | 258572.6 | 4085224 | 2.33E-03 | 3.55E-04 | 1.92E-04 |
| 78 | 258564.3 | 4085246 | 2.20E-03 | 3.36E-04 | 1.82E-04 |
| 79 | 258556 | 4085268 | 2.08E-03 | 3.18E-04 | 1.72E-04 |
| 80 | 258526.1 | 4085300 | 2.06E-03 | 3.14E-04 | 1.70E-04 |
| 81 | 258504.6 | 4085310 | 2.15E-03 | 3.28E-04 | 1.78E-04 |
| 82 | 258483.1 | 4085320 | 2.25E-03 | 3.43E-04 | 1.86E-04 |
| 83 | 258461.6 | 4085330 | 2.35E-03 | 3.58E-04 | 1.94E-04 |
| 84 | 258440.1 | 4085340 | 2.44E-03 | 3.72E-04 | 2.02E-04 |
| 85 | 258418.5 | 4085350 | 2.54E-03 | 3.87E-04 | 2.09E-04 |
| 86 | 258397 | 4085360 | 2.64E-03 | 4.02E-04 | 2.17E-04 |
| 87 | 258614.4 | 4085113 | 3.08E-03 | 4.69E-04 | 2.54E-04 |

| | | | | | |
|---|---|---|---|---|---|
| 88 | 258613.6 | 4085088 | 3.42E-03 | 5.21E-04 | 2.82E-04 |
| 89 | 258612.9 | 4085063 | 3.81E-03 | 5.80E-04 | 3.14E-04 |
| 90 | 258612.2 | 4085039 | 4.24E-03 | 6.46E-04 | 3.50E-04 |
| 91 | 258611.5 | 4085014 | 4.71E-03 | 7.18E-04 | 3.89E-04 |
| 92 | 258610.7 | 4084989 | 5.20E-03 | 7.93E-04 | 4.29E-04 |
| 93 | 258610 | 4084964 | 5.69E-03 | 8.67E-04 | 4.69E-04 |
| 94 | 258609.3 | 4084940 | 6.15E-03 | 9.37E-04 | 5.07E-04 |
| 95 | 258608.6 | 4084915 | 6.54E-03 | 9.97E-04 | 5.39E-04 |
| 96 | 258656.3 | 4085133 | 2.39E-03 | 3.64E-04 | 1.97E-04 |
| 97 | 258648.3 | 4085154 | 2.29E-03 | 3.49E-04 | 1.89E-04 |
| 98 | 258640.3 | 4085175 | 2.19E-03 | 3.33E-04 | 1.80E-04 |
| 99 | 258632.3 | 4085197 | 2.08E-03 | 3.18E-04 | 1.72E-04 |
| 100 | 258624.3 | 4085218 | 1.99E-03 | 3.02E-04 | 1.64E-04 |
| 101 | 258616.3 | 4085239 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 102 | 258608.3 | 4085260 | 1.80E-03 | 2.74E-04 | 1.49E-04 |
| 103 | 258600.3 | 4085282 | 1.72E-03 | 2.62E-04 | 1.42E-04 |
| 104 | 258592.3 | 4085303 | 1.64E-03 | 2.50E-04 | 1.35E-04 |
| 105 | 258563.6 | 4085334 | 1.63E-03 | 2.48E-04 | 1.34E-04 |
| 106 | 258542.9 | 4085343 | 1.69E-03 | 2.57E-04 | 1.39E-04 |
| 107 | 258522.3 | 4085353 | 1.75E-03 | 2.67E-04 | 1.44E-04 |
| 108 | 258501.6 | 4085363 | 1.82E-03 | 2.77E-04 | 1.50E-04 |
| 109 | 258481 | 4085372 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 110 | 258460.3 | 4085382 | 1.95E-03 | 2.97E-04 | 1.61E-04 |
| 111 | 258439.7 | 4085391 | 2.01E-03 | 3.07E-04 | 1.66E-04 |
| 112 | 258419 | 4085401 | 2.08E-03 | 3.17E-04 | 1.71E-04 |
| 113 | 258398.4 | 4085410 | 2.15E-03 | 3.27E-04 | 1.77E-04 |
| 114 | 258664.3 | 4085111 | 2.49E-03 | 3.80E-04 | 2.05E-04 |
| 115 | 258663.6 | 4085087 | 2.72E-03 | 4.15E-04 | 2.25E-04 |
| 116 | 258662.9 | 4085062 | 2.99E-03 | 4.55E-04 | 2.46E-04 |
| 117 | 258662.2 | 4085037 | 3.28E-03 | 4.99E-04 | 2.70E-04 |
| 118 | 258661.4 | 4085012 | 3.59E-03 | 5.47E-04 | 2.96E-04 |
| 119 | 258660.7 | 4084988 | 3.93E-03 | 5.99E-04 | 3.24E-04 |
| 120 | 258660 | 4084963 | 4.27E-03 | 6.51E-04 | 3.52E-04 |
| 121 | 258659.3 | 4084938 | 4.62E-03 | 7.03E-04 | 3.81E-04 |
| 122 | 258658.6 | 4084913 | 4.93E-03 | 7.52E-04 | 4.07E-04 |
| 123 | 258756.1 | 4085130 | 1.69E-03 | 2.57E-04 | 1.39E-04 |
| 124 | 258747.9 | 4085152 | 1.63E-03 | 2.49E-04 | 1.35E-04 |
| 125 | 258739.6 | 4085174 | 1.58E-03 | 2.40E-04 | 1.30E-04 |
| 126 | 258731.4 | 4085196 | 1.52E-03 | 2.32E-04 | 1.25E-04 |
| 127 | 258723.2 | 4085218 | 1.46E-03 | 2.23E-04 | 1.21E-04 |
| 128 | 258715 | 4085239 | 1.41E-03 | 2.14E-04 | 1.16E-04 |
| 129 | 258706.8 | 4085261 | 1.35E-03 | 2.06E-04 | 1.11E-04 |
| 130 | 258698.6 | 4085283 | 1.30E-03 | 1.98E-04 | 1.07E-04 |
| 131 | 258690.4 | 4085305 | 1.25E-03 | 1.90E-04 | 1.03E-04 |
| 132 | 258682.1 | 4085327 | 1.20E-03 | 1.82E-04 | 9.86E-05 |
| 133 | 258673.9 | 4085349 | 1.15E-03 | 1.76E-04 | 9.51E-05 |
| 134 | 258665.7 | 4085371 | 1.11E-03 | 1.69E-04 | 9.16E-05 |

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| 135 | 258636.3 | 4085402 | 1.11E-03 | 1.68E-04 | 9.11E-05 |
| 136 | 258615.1 | 4085412 | 1.14E-03 | 1.73E-04 | 9.38E-05 |
| 137 | 258594 | 4085422 | 1.17E-03 | 1.79E-04 | 9.67E-05 |
| 138 | 258572.8 | 4085432 | 1.21E-03 | 1.85E-04 | 9.99E-05 |
| 139 | 258551.6 | 4085441 | 1.25E-03 | 1.91E-04 | 1.03E-04 |
| 140 | 258530.4 | 4085451 | 1.29E-03 | 1.97E-04 | 1.07E-04 |
| 141 | 258509.2 | 4085461 | 1.33E-03 | 2.03E-04 | 1.10E-04 |
| 142 | 258488.1 | 4085471 | 1.37E-03 | 2.08E-04 | 1.13E-04 |
| 143 | 258466.9 | 4085481 | 1.40E-03 | 2.14E-04 | 1.16E-04 |
| 144 | 258445.7 | 4085490 | 1.44E-03 | 2.19E-04 | 1.19E-04 |
| 145 | 258424.5 | 4085500 | 1.48E-03 | 2.25E-04 | 1.22E-04 |
| 146 | 258403.3 | 4085510 | 1.52E-03 | 2.31E-04 | 1.25E-04 |
| 147 | 258764.3 | 4085108 | 1.74E-03 | 2.66E-04 | 1.44E-04 |
| 148 | 258763.6 | 4085084 | 1.87E-03 | 2.84E-04 | 1.54E-04 |
| 149 | 258762.8 | 4085059 | 2.00E-03 | 3.05E-04 | 1.65E-04 |
| 150 | 258762.1 | 4085034 | 2.15E-03 | 3.28E-04 | 1.78E-04 |
| 151 | 258761.4 | 4085009 | 2.32E-03 | 3.53E-04 | 1.91E-04 |
| 152 | 258760.7 | 4084985 | 2.49E-03 | 3.79E-04 | 2.05E-04 |
| 153 | 258760 | 4084960 | 2.68E-03 | 4.08E-04 | 2.21E-04 |
| 154 | 258759.2 | 4084935 | 2.87E-03 | 4.37E-04 | 2.37E-04 |
| 155 | 258758.5 | 4084910 | 3.06E-03 | 4.67E-04 | 2.53E-04 |
| 156 | 258855.9 | 4085128 | 1.27E-03 | 1.94E-04 | 1.05E-04 |
| 157 | 258847.6 | 4085150 | 1.24E-03 | 1.89E-04 | 1.02E-04 |
| 158 | 258839.2 | 4085172 | 1.20E-03 | 1.83E-04 | 9.92E-05 |
| 159 | 258830.9 | 4085194 | 1.17E-03 | 1.78E-04 | 9.62E-05 |
| 160 | 258822.5 | 4085216 | 1.13E-03 | 1.72E-04 | 9.32E-05 |
| 161 | 258814.2 | 4085239 | 1.09E-03 | 1.67E-04 | 9.02E-05 |
| 162 | 258805.8 | 4085261 | 1.06E-03 | 1.61E-04 | 8.73E-05 |
| 163 | 258797.5 | 4085283 | 1.03E-03 | 1.56E-04 | 8.45E-05 |
| 164 | 258789.2 | 4085305 | 9.91E-04 | 1.51E-04 | 8.17E-05 |
| 165 | 258780.8 | 4085327 | 9.53E-04 | 1.45E-04 | 7.86E-05 |
| 166 | 258772.5 | 4085350 | 9.21E-04 | 1.40E-04 | 7.59E-05 |
| 167 | 258764.1 | 4085372 | 8.91E-04 | 1.36E-04 | 7.35E-05 |
| 168 | 258755.8 | 4085394 | 8.63E-04 | 1.31E-04 | 7.12E-05 |
| 169 | 258747.4 | 4085416 | 8.37E-04 | 1.27E-04 | 6.90E-05 |
| 170 | 258739.1 | 4085438 | 8.12E-04 | 1.24E-04 | 6.69E-05 |
| 171 | 258709.2 | 4085470 | 8.07E-04 | 1.23E-04 | 6.65E-05 |
| 172 | 258687.7 | 4085480 | 8.25E-04 | 1.26E-04 | 6.80E-05 |
| 173 | 258666.2 | 4085490 | 8.46E-04 | 1.29E-04 | 6.97E-05 |
| 174 | 258644.7 | 4085500 | 8.68E-04 | 1.32E-04 | 7.16E-05 |
| 175 | 258623.2 | 4085510 | 8.94E-04 | 1.36E-04 | 7.37E-05 |
| 176 | 258601.7 | 4085520 | 9.22E-04 | 1.40E-04 | 7.60E-05 |
| 177 | 258580.2 | 4085530 | 9.50E-04 | 1.45E-04 | 7.83E-05 |
| 178 | 258558.7 | 4085540 | 9.79E-04 | 1.49E-04 | 8.07E-05 |
| 179 | 258537.2 | 4085550 | 1.01E-03 | 1.53E-04 | 8.29E-05 |
| 180 | 258515.7 | 4085560 | 1.03E-03 | 1.57E-04 | 8.47E-05 |
| 181 | 258494.1 | 4085570 | 1.05E-03 | 1.60E-04 | 8.65E-05 |

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| 182 | 258472.6 | 4085580 | 1.07E-03 | 1.63E-04 | 8.83E-05 |
| 183 | 258451.1 | 4085590 | 1.10E-03 | 1.67E-04 | 9.03E-05 |
| 184 | 258429.6 | 4085600 | 1.12E-03 | 1.71E-04 | 9.25E-05 |
| 185 | 258408.1 | 4085610 | 1.15E-03 | 1.75E-04 | 9.48E-05 |
| 186 | 258864.3 | 4085106 | 1.30E-03 | 1.99E-04 | 1.07E-04 |
| 187 | 258863.5 | 4085081 | 1.38E-03 | 2.10E-04 | 1.13E-04 |
| 188 | 258862.8 | 4085056 | 1.46E-03 | 2.22E-04 | 1.20E-04 |
| 189 | 258862.1 | 4085031 | 1.54E-03 | 2.35E-04 | 1.27E-04 |
| 190 | 258861.4 | 4085007 | 1.64E-03 | 2.50E-04 | 1.35E-04 |
| 191 | 258860.6 | 4084982 | 1.74E-03 | 2.65E-04 | 1.43E-04 |
| 192 | 258859.9 | 4084957 | 1.85E-03 | 2.82E-04 | 1.53E-04 |
| 193 | 258859.2 | 4084932 | 1.97E-03 | 3.00E-04 | 1.62E-04 |
| 194 | 258858.5 | 4084907 | 2.09E-03 | 3.18E-04 | 1.72E-04 |
| 195 | 258955.8 | 4085125 | 1.00E-03 | 1.53E-04 | 8.26E-05 |
| 196 | 258947.3 | 4085147 | 9.81E-04 | 1.49E-04 | 8.08E-05 |
| 197 | 258938.9 | 4085170 | 9.58E-04 | 1.46E-04 | 7.89E-05 |
| 198 | 258930.5 | 4085192 | 9.33E-04 | 1.42E-04 | 7.69E-05 |
| 199 | 258922.1 | 4085215 | 9.08E-04 | 1.38E-04 | 7.49E-05 |
| 200 | 258913.6 | 4085237 | 8.83E-04 | 1.34E-04 | 7.28E-05 |
| 201 | 258905.2 | 4085260 | 8.58E-04 | 1.31E-04 | 7.07E-05 |
| 202 | 258896.8 | 4085282 | 8.32E-04 | 1.27E-04 | 6.85E-05 |
| 203 | 258888.3 | 4085304 | 8.06E-04 | 1.23E-04 | 6.64E-05 |
| 204 | 258879.9 | 4085327 | 7.84E-04 | 1.19E-04 | 6.46E-05 |
| 205 | 258871.5 | 4085349 | 7.63E-04 | 1.16E-04 | 6.29E-05 |
| 206 | 258863 | 4085372 | 7.42E-04 | 1.13E-04 | 6.11E-05 |
| 207 | 258854.6 | 4085394 | 7.21E-04 | 1.10E-04 | 5.94E-05 |
| 208 | 258846.2 | 4085416 | 7.01E-04 | 1.07E-04 | 5.78E-05 |
| 209 | 258837.7 | 4085439 | 6.82E-04 | 1.04E-04 | 5.62E-05 |
| 210 | 258829.3 | 4085461 | 6.63E-04 | 1.01E-04 | 5.47E-05 |
| 211 | 258820.9 | 4085484 | 6.46E-04 | 9.84E-05 | 5.33E-05 |
| 212 | 258812.4 | 4085506 | 6.30E-04 | 9.60E-05 | 5.19E-05 |
| 213 | 258782.3 | 4085539 | 6.27E-04 | 9.54E-05 | 5.16E-05 |
| 214 | 258760.5 | 4085549 | 6.39E-04 | 9.73E-05 | 5.26E-05 |
| 215 | 258738.8 | 4085559 | 6.51E-04 | 9.92E-05 | 5.37E-05 |
| 216 | 258717.1 | 4085569 | 6.65E-04 | 1.01E-04 | 5.49E-05 |
| 217 | 258695.3 | 4085579 | 6.81E-04 | 1.04E-04 | 5.62E-05 |
| 218 | 258673.6 | 4085589 | 6.99E-04 | 1.06E-04 | 5.76E-05 |
| 219 | 258651.9 | 4085599 | 7.18E-04 | 1.09E-04 | 5.92E-05 |
| 220 | 258630.1 | 4085609 | 7.38E-04 | 1.12E-04 | 6.08E-05 |
| 221 | 258608.4 | 4085619 | 7.57E-04 | 1.15E-04 | 6.24E-05 |
| 222 | 258586.6 | 4085629 | 7.75E-04 | 1.18E-04 | 6.39E-05 |
| 223 | 258564.9 | 4085639 | 7.93E-04 | 1.21E-04 | 6.53E-05 |
| 224 | 258543.2 | 4085649 | 8.08E-04 | 1.23E-04 | 6.66E-05 |
| 225 | 258521.4 | 4085659 | 8.20E-04 | 1.25E-04 | 6.76E-05 |
| 226 | 258499.7 | 4085669 | 8.38E-04 | 1.28E-04 | 6.91E-05 |
| 227 | 258478 | 4085679 | 8.54E-04 | 1.30E-04 | 7.04E-05 |
| 228 | 258456.2 | 4085689 | 8.70E-04 | 1.33E-04 | 7.17E-05 |

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| 229 | 258434.5 | 4085699 | 8.90E-04 | 1.36E-04 | 7.34E-05 |
| 230 | 258412.8 | 4085709 | 9.10E-04 | 1.39E-04 | 7.50E-05 |
| 231 | 258964.2 | 4085103 | 1.02E-03 | 1.56E-04 | 8.42E-05 |
| 232 | 258963.5 | 4085078 | 1.07E-03 | 1.63E-04 | 8.80E-05 |
| 233 | 258962.8 | 4085053 | 1.12E-03 | 1.70E-04 | 9.22E-05 |
| 234 | 258962 | 4085028 | 1.17E-03 | 1.79E-04 | 9.68E-05 |
| 235 | 258961.3 | 4085004 | 1.23E-03 | 1.88E-04 | 1.02E-04 |
| 236 | 258960.6 | 4084979 | 1.30E-03 | 1.98E-04 | 1.07E-04 |
| 237 | 258959.9 | 4084954 | 1.37E-03 | 2.09E-04 | 1.13E-04 |
| 238 | 258959.2 | 4084929 | 1.45E-03 | 2.20E-04 | 1.19E-04 |
| 239 | 258958.4 | 4084905 | 1.53E-03 | 2.32E-04 | 1.26E-04 |
| 240 | 259055.7 | 4085122 | 8.17E-04 | 1.24E-04 | 6.73E-05 |
| 241 | 259047.2 | 4085145 | 8.03E-04 | 1.22E-04 | 6.62E-05 |
| 242 | 259038.7 | 4085167 | 7.88E-04 | 1.20E-04 | 6.49E-05 |
| 243 | 259030.2 | 4085190 | 7.69E-04 | 1.17E-04 | 6.34E-05 |
| 244 | 259021.7 | 4085213 | 7.49E-04 | 1.14E-04 | 6.17E-05 |
| 245 | 259013.2 | 4085235 | 7.29E-04 | 1.11E-04 | 6.01E-05 |
| 246 | 259004.7 | 4085258 | 7.10E-04 | 1.08E-04 | 5.85E-05 |
| 247 | 258996.2 | 4085280 | 6.92E-04 | 1.05E-04 | 5.70E-05 |
| 248 | 258987.7 | 4085303 | 6.75E-04 | 1.03E-04 | 5.56E-05 |
| 249 | 258979.2 | 4085326 | 6.59E-04 | 1.00E-04 | 5.43E-05 |
| 250 | 258970.7 | 4085348 | 6.43E-04 | 9.80E-05 | 5.30E-05 |
| 251 | 258962.2 | 4085371 | 6.29E-04 | 9.58E-05 | 5.18E-05 |
| 252 | 258953.7 | 4085393 | 6.14E-04 | 9.36E-05 | 5.06E-05 |
| 253 | 258945.2 | 4085416 | 6.00E-04 | 9.14E-05 | 4.94E-05 |
| 254 | 258936.7 | 4085438 | 5.86E-04 | 8.92E-05 | 4.83E-05 |
| 255 | 258928.2 | 4085461 | 5.72E-04 | 8.71E-05 | 4.71E-05 |
| 256 | 258919.8 | 4085484 | 5.58E-04 | 8.50E-05 | 4.60E-05 |
| 257 | 258911.3 | 4085506 | 5.44E-04 | 8.29E-05 | 4.49E-05 |
| 258 | 258902.8 | 4085529 | 5.32E-04 | 8.10E-05 | 4.38E-05 |
| 259 | 258894.3 | 4085551 | 5.20E-04 | 7.92E-05 | 4.28E-05 |
| 260 | 258885.8 | 4085574 | 5.09E-04 | 7.75E-05 | 4.19E-05 |
| 261 | 258855.4 | 4085607 | 5.06E-04 | 7.71E-05 | 4.17E-05 |
| 262 | 258833.5 | 4085617 | 5.14E-04 | 7.84E-05 | 4.24E-05 |
| 263 | 258811.6 | 4085627 | 5.23E-04 | 7.97E-05 | 4.31E-05 |
| 264 | 258789.7 | 4085637 | 5.33E-04 | 8.12E-05 | 4.39E-05 |
| 265 | 258767.8 | 4085647 | 5.43E-04 | 8.27E-05 | 4.48E-05 |
| 266 | 258745.9 | 4085657 | 5.55E-04 | 8.45E-05 | 4.57E-05 |
| 267 | 258724 | 4085667 | 5.68E-04 | 8.65E-05 | 4.68E-05 |
| 268 | 258702.1 | 4085678 | 5.82E-04 | 8.87E-05 | 4.80E-05 |
| 269 | 258680.2 | 4085688 | 5.97E-04 | 9.10E-05 | 4.92E-05 |
| 270 | 258658.3 | 4085698 | 6.12E-04 | 9.33E-05 | 5.05E-05 |
| 271 | 258636.4 | 4085708 | 6.27E-04 | 9.55E-05 | 5.17E-05 |
| 272 | 258614.5 | 4085718 | 6.40E-04 | 9.74E-05 | 5.27E-05 |
| 273 | 258592.6 | 4085728 | 6.51E-04 | 9.92E-05 | 5.37E-05 |
| 274 | 258570.7 | 4085738 | 6.62E-04 | 1.01E-04 | 5.46E-05 |
| 275 | 258548.8 | 4085749 | 6.73E-04 | 1.02E-04 | 5.55E-05 |

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| 276 | 258526.8 | 4085759 | 6.84E-04 | 1.04E-04 | 5.64E-05 |
| 277 | 258504.9 | 4085769 | 6.96E-04 | 1.06E-04 | 5.74E-05 |
| 278 | 258483 | 4085779 | 7.10E-04 | 1.08E-04 | 5.85E-05 |
| 279 | 258461.1 | 4085789 | 7.25E-04 | 1.10E-04 | 5.97E-05 |
| 280 | 258439.2 | 4085799 | 7.40E-04 | 1.13E-04 | 6.10E-05 |
| 281 | 258417.3 | 4085809 | 7.56E-04 | 1.15E-04 | 6.23E-05 |
| 282 | 259064.2 | 4085100 | 8.29E-04 | 1.26E-04 | 6.84E-05 |
| 283 | 259063.4 | 4085075 | 8.60E-04 | 1.31E-04 | 7.09E-05 |
| 284 | 259062.7 | 4085050 | 8.94E-04 | 1.36E-04 | 7.37E-05 |
| 285 | 259062 | 4085025 | 9.32E-04 | 1.42E-04 | 7.68E-05 |
| 286 | 259061.3 | 4085001 | 9.73E-04 | 1.48E-04 | 8.02E-05 |
| 287 | 259060.6 | 4084976 | 1.02E-03 | 1.55E-04 | 8.40E-05 |
| 288 | 259059.8 | 4084951 | 1.07E-03 | 1.63E-04 | 8.80E-05 |
| 289 | 259059.1 | 4084926 | 1.12E-03 | 1.70E-04 | 9.22E-05 |
| 290 | 259058.4 | 4084902 | 1.17E-03 | 1.79E-04 | 9.67E-05 |
| 291 | 259255.5 | 4085117 | 5.85E-04 | 8.91E-05 | 4.82E-05 |
| 292 | 259246.9 | 4085139 | 5.79E-04 | 8.82E-05 | 4.77E-05 |
| 293 | 259238.3 | 4085162 | 5.72E-04 | 8.72E-05 | 4.72E-05 |
| 294 | 259229.8 | 4085185 | 5.63E-04 | 8.58E-05 | 4.64E-05 |
| 295 | 259221.2 | 4085208 | 5.52E-04 | 8.40E-05 | 4.55E-05 |
| 296 | 259212.6 | 4085231 | 5.40E-04 | 8.23E-05 | 4.45E-05 |
| 297 | 259204 | 4085254 | 5.28E-04 | 8.05E-05 | 4.35E-05 |
| 298 | 259195.4 | 4085276 | 5.16E-04 | 7.86E-05 | 4.25E-05 |
| 299 | 259186.8 | 4085299 | 5.04E-04 | 7.68E-05 | 4.16E-05 |
| 300 | 259178.3 | 4085322 | 4.93E-04 | 7.51E-05 | 4.06E-05 |
| 301 | 259169.7 | 4085345 | 4.82E-04 | 7.35E-05 | 3.98E-05 |
| 302 | 259161.1 | 4085368 | 4.73E-04 | 7.20E-05 | 3.90E-05 |
| 303 | 259152.5 | 4085390 | 4.64E-04 | 7.07E-05 | 3.82E-05 |
| 304 | 259143.9 | 4085413 | 4.56E-04 | 6.94E-05 | 3.76E-05 |
| 305 | 259135.4 | 4085436 | 4.48E-04 | 6.83E-05 | 3.69E-05 |
| 306 | 259126.8 | 4085459 | 4.41E-04 | 6.71E-05 | 3.63E-05 |
| 307 | 259118.2 | 4085482 | 4.33E-04 | 6.60E-05 | 3.57E-05 |
| 308 | 259109.6 | 4085505 | 4.26E-04 | 6.49E-05 | 3.51E-05 |
| 309 | 259101 | 4085527 | 4.19E-04 | 6.38E-05 | 3.45E-05 |
| 310 | 259092.4 | 4085550 | 4.11E-04 | 6.26E-05 | 3.39E-05 |
| 311 | 259083.9 | 4085573 | 4.04E-04 | 6.15E-05 | 3.33E-05 |
| 312 | 259075.3 | 4085596 | 3.96E-04 | 6.03E-05 | 3.26E-05 |
| 313 | 259066.7 | 4085619 | 3.88E-04 | 5.91E-05 | 3.20E-05 |
| 314 | 259058.1 | 4085641 | 3.81E-04 | 5.80E-05 | 3.14E-05 |
| 315 | 259049.5 | 4085664 | 3.74E-04 | 5.69E-05 | 3.08E-05 |
| 316 | 259041 | 4085687 | 3.67E-04 | 5.59E-05 | 3.03E-05 |
| 317 | 259032.4 | 4085710 | 3.61E-04 | 5.50E-05 | 2.98E-05 |
| 318 | 259001.7 | 4085743 | 3.60E-04 | 5.48E-05 | 2.97E-05 |
| 319 | 258979.5 | 4085753 | 3.64E-04 | 5.55E-05 | 3.00E-05 |
| 320 | 258957.4 | 4085763 | 3.69E-04 | 5.63E-05 | 3.04E-05 |
| 321 | 258935.3 | 4085774 | 3.74E-04 | 5.70E-05 | 3.09E-05 |
| 322 | 258913.2 | 4085784 | 3.80E-04 | 5.79E-05 | 3.13E-05 |

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| 323 | 258891 | 4085794 | 3.86E-04 | 5.88E-05 | 3.18E-05 |
| 324 | 258868.9 | 4085804 | 3.92E-04 | 5.98E-05 | 3.23E-05 |
| 325 | 258846.8 | 4085815 | 3.99E-04 | 6.08E-05 | 3.29E-05 |
| 326 | 258824.7 | 4085825 | 4.08E-04 | 6.21E-05 | 3.36E-05 |
| 327 | 258802.5 | 4085835 | 4.16E-04 | 6.34E-05 | 3.43E-05 |
| 328 | 258780.4 | 4085845 | 4.26E-04 | 6.49E-05 | 3.51E-05 |
| 329 | 258758.3 | 4085856 | 4.37E-04 | 6.65E-05 | 3.60E-05 |
| 330 | 258736.2 | 4085866 | 4.47E-04 | 6.81E-05 | 3.68E-05 |
| 331 | 258714 | 4085876 | 4.57E-04 | 6.96E-05 | 3.76E-05 |
| 332 | 258691.9 | 4085886 | 4.66E-04 | 7.10E-05 | 3.84E-05 |
| 333 | 258669.8 | 4085896 | 4.74E-04 | 7.22E-05 | 3.91E-05 |
| 334 | 258647.7 | 4085907 | 4.81E-04 | 7.33E-05 | 3.97E-05 |
| 335 | 258625.5 | 4085917 | 4.88E-04 | 7.43E-05 | 4.02E-05 |
| 336 | 258603.4 | 4085927 | 4.95E-04 | 7.54E-05 | 4.08E-05 |
| 337 | 258581.3 | 4085937 | 5.01E-04 | 7.64E-05 | 4.13E-05 |
| 338 | 258559.2 | 4085948 | 5.09E-04 | 7.75E-05 | 4.19E-05 |
| 339 | 258537 | 4085958 | 5.16E-04 | 7.87E-05 | 4.26E-05 |
| 340 | 258514.9 | 4085968 | 5.24E-04 | 7.99E-05 | 4.32E-05 |
| 341 | 258492.8 | 4085978 | 5.33E-04 | 8.12E-05 | 4.39E-05 |
| 342 | 258470.7 | 4085989 | 5.41E-04 | 8.25E-05 | 4.46E-05 |
| 343 | 258448.5 | 4085999 | 5.50E-04 | 8.38E-05 | 4.54E-05 |
| 344 | 258426.4 | 4086009 | 5.59E-04 | 8.52E-05 | 4.61E-05 |
| 345 | 259264.1 | 4085094 | 5.90E-04 | 8.99E-05 | 4.86E-05 |
| 346 | 259263.4 | 4085069 | 6.05E-04 | 9.22E-05 | 4.99E-05 |
| 347 | 259262.6 | 4085044 | 6.23E-04 | 9.49E-05 | 5.13E-05 |
| 348 | 259261.9 | 4085020 | 6.43E-04 | 9.79E-05 | 5.30E-05 |
| 349 | 259261.2 | 4084995 | 6.66E-04 | 1.01E-04 | 5.49E-05 |
| 350 | 259260.5 | 4084970 | 6.91E-04 | 1.05E-04 | 5.70E-05 |
| 351 | 259259.7 | 4084945 | 7.19E-04 | 1.09E-04 | 5.92E-05 |
| 352 | 259259 | 4084921 | 7.47E-04 | 1.14E-04 | 6.16E-05 |
| 353 | 259258.3 | 4084896 | 7.76E-04 | 1.18E-04 | 6.40E-05 |
| 354 | 259455.4 | 4085111 | 4.49E-04 | 6.84E-05 | 3.70E-05 |
| 355 | 259446.7 | 4085134 | 4.47E-04 | 6.81E-05 | 3.68E-05 |
| 356 | 259438.1 | 4085157 | 4.44E-04 | 6.76E-05 | 3.66E-05 |
| 357 | 259429.4 | 4085180 | 4.40E-04 | 6.71E-05 | 3.63E-05 |
| 358 | 259420.8 | 4085203 | 4.35E-04 | 6.63E-05 | 3.59E-05 |
| 359 | 259412.2 | 4085226 | 4.29E-04 | 6.53E-05 | 3.53E-05 |
| 360 | 259403.5 | 4085249 | 4.21E-04 | 6.42E-05 | 3.47E-05 |
| 361 | 259394.9 | 4085272 | 4.13E-04 | 6.29E-05 | 3.41E-05 |
| 362 | 259386.3 | 4085295 | 4.04E-04 | 6.16E-05 | 3.33E-05 |
| 363 | 259377.6 | 4085318 | 3.95E-04 | 6.02E-05 | 3.26E-05 |
| 364 | 259369 | 4085341 | 3.86E-04 | 5.88E-05 | 3.18E-05 |
| 365 | 259360.3 | 4085364 | 3.78E-04 | 5.76E-05 | 3.11E-05 |
| 366 | 259351.7 | 4085387 | 3.71E-04 | 5.65E-05 | 3.05E-05 |
| 367 | 259343.1 | 4085410 | 3.64E-04 | 5.54E-05 | 3.00E-05 |
| 368 | 259334.4 | 4085433 | 3.58E-04 | 5.45E-05 | 2.95E-05 |
| 369 | 259325.8 | 4085455 | 3.53E-04 | 5.38E-05 | 2.91E-05 |

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| 370 | 259317.2 | 4085478 | 3.48E-04 | 5.30E-05 | 2.87E-05 |
| 371 | 259308.5 | 4085501 | 3.43E-04 | 5.23E-05 | 2.83E-05 |
| 372 | 259299.9 | 4085524 | 3.39E-04 | 5.17E-05 | 2.80E-05 |
| 373 | 259291.2 | 4085547 | 3.35E-04 | 5.10E-05 | 2.76E-05 |
| 374 | 259282.6 | 4085570 | 3.31E-04 | 5.04E-05 | 2.73E-05 |
| 375 | 259274 | 4085593 | 3.27E-04 | 4.98E-05 | 2.69E-05 |
| 376 | 259265.3 | 4085616 | 3.23E-04 | 4.92E-05 | 2.66E-05 |
| 377 | 259256.7 | 4085639 | 3.18E-04 | 4.85E-05 | 2.62E-05 |
| 378 | 259248.1 | 4085662 | 3.14E-04 | 4.78E-05 | 2.59E-05 |
| 379 | 259239.4 | 4085685 | 3.09E-04 | 4.71E-05 | 2.55E-05 |
| 380 | 259230.8 | 4085708 | 3.04E-04 | 4.63E-05 | 2.51E-05 |
| 381 | 259222.1 | 4085731 | 2.99E-04 | 4.56E-05 | 2.46E-05 |
| 382 | 259213.5 | 4085754 | 2.94E-04 | 4.48E-05 | 2.42E-05 |
| 383 | 259204.9 | 4085777 | 2.89E-04 | 4.41E-05 | 2.38E-05 |
| 384 | 259196.2 | 4085800 | 2.85E-04 | 4.34E-05 | 2.35E-05 |
| 385 | 259187.6 | 4085823 | 2.81E-04 | 4.28E-05 | 2.31E-05 |
| 386 | 259179 | 4085846 | 2.77E-04 | 4.22E-05 | 2.28E-05 |
| 387 | 259148 | 4085879 | 2.77E-04 | 4.21E-05 | 2.28E-05 |
| 388 | 259125.8 | 4085889 | 2.80E-04 | 4.26E-05 | 2.31E-05 |
| 389 | 259103.5 | 4085900 | 2.83E-04 | 4.31E-05 | 2.33E-05 |
| 390 | 259081.2 | 4085910 | 2.87E-04 | 4.37E-05 | 2.36E-05 |
| 391 | 259059 | 4085920 | 2.90E-04 | 4.42E-05 | 2.39E-05 |
| 392 | 259036.7 | 4085931 | 2.94E-04 | 4.48E-05 | 2.42E-05 |
| 393 | 259014.4 | 4085941 | 2.98E-04 | 4.54E-05 | 2.45E-05 |
| 394 | 258992.2 | 4085951 | 3.02E-04 | 4.60E-05 | 2.49E-05 |
| 395 | 258969.9 | 4085962 | 3.06E-04 | 4.66E-05 | 2.52E-05 |
| 396 | 258947.6 | 4085972 | 3.10E-04 | 4.73E-05 | 2.56E-05 |
| 397 | 258925.3 | 4085982 | 3.16E-04 | 4.81E-05 | 2.60E-05 |
| 398 | 258903.1 | 4085992 | 3.22E-04 | 4.91E-05 | 2.65E-05 |
| 399 | 258880.8 | 4086003 | 3.29E-04 | 5.01E-05 | 2.71E-05 |
| 400 | 258858.5 | 4086013 | 3.37E-04 | 5.13E-05 | 2.78E-05 |
| 401 | 258836.3 | 4086023 | 3.45E-04 | 5.25E-05 | 2.84E-05 |
| 402 | 258814 | 4086034 | 3.53E-04 | 5.37E-05 | 2.91E-05 |
| 403 | 258791.7 | 4086044 | 3.60E-04 | 5.49E-05 | 2.97E-05 |
| 404 | 258769.5 | 4086054 | 3.67E-04 | 5.59E-05 | 3.03E-05 |
| 405 | 258747.2 | 4086065 | 3.73E-04 | 5.69E-05 | 3.08E-05 |
| 406 | 258724.9 | 4086075 | 3.79E-04 | 5.77E-05 | 3.12E-05 |
| 407 | 258702.6 | 4086085 | 3.83E-04 | 5.84E-05 | 3.16E-05 |
| 408 | 258680.4 | 4086095 | 3.87E-04 | 5.90E-05 | 3.19E-05 |
| 409 | 258658.1 | 4086106 | 3.91E-04 | 5.96E-05 | 3.22E-05 |
| 410 | 258635.8 | 4086116 | 3.95E-04 | 6.01E-05 | 3.25E-05 |
| 411 | 258613.6 | 4086126 | 3.99E-04 | 6.07E-05 | 3.29E-05 |
| 412 | 258591.3 | 4086137 | 4.03E-04 | 6.13E-05 | 3.32E-05 |
| 413 | 258569 | 4086147 | 4.07E-04 | 6.20E-05 | 3.36E-05 |
| 414 | 258546.8 | 4086157 | 4.12E-04 | 6.27E-05 | 3.39E-05 |
| 415 | 258524.5 | 4086168 | 4.17E-04 | 6.35E-05 | 3.44E-05 |
| 416 | 258502.2 | 4086178 | 4.22E-04 | 6.44E-05 | 3.48E-05 |

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| 417 | 258479.9 | 4086188 | 4.29E-04 | 6.53E-05 | 3.53E-05 |
| 418 | 258457.7 | 4086198 | 4.34E-04 | 6.62E-05 | 3.58E-05 |
| 419 | 258435.4 | 4086209 | 4.41E-04 | 6.73E-05 | 3.64E-05 |
| 420 | 259464 | 4085088 | 4.51E-04 | 6.87E-05 | 3.72E-05 |
| 421 | 259463.3 | 4085063 | 4.60E-04 | 7.00E-05 | 3.79E-05 |
| 422 | 259462.6 | 4085039 | 4.71E-04 | 7.17E-05 | 3.88E-05 |
| 423 | 259461.8 | 4085014 | 4.83E-04 | 7.36E-05 | 3.98E-05 |
| 424 | 259461.1 | 4084989 | 4.98E-04 | 7.59E-05 | 4.11E-05 |
| 425 | 259460.4 | 4084964 | 5.15E-04 | 7.84E-05 | 4.24E-05 |
| 426 | 259459.7 | 4084939 | 5.33E-04 | 8.12E-05 | 4.39E-05 |
| 427 | 259458.9 | 4084915 | 5.51E-04 | 8.40E-05 | 4.55E-05 |
| 428 | 259458.2 | 4084890 | 5.70E-04 | 8.68E-05 | 4.70E-05 |
| 429 | 259655.2 | 4085105 | 3.62E-04 | 5.52E-05 | 2.99E-05 |
| 430 | 259646.6 | 4085128 | 3.62E-04 | 5.51E-05 | 2.98E-05 |
| 431 | 259637.9 | 4085151 | 3.61E-04 | 5.50E-05 | 2.98E-05 |
| 432 | 259629.2 | 4085174 | 3.59E-04 | 5.47E-05 | 2.96E-05 |
| 433 | 259620.5 | 4085198 | 3.57E-04 | 5.44E-05 | 2.94E-05 |
| 434 | 259611.8 | 4085221 | 3.54E-04 | 5.39E-05 | 2.91E-05 |
| 435 | 259603.2 | 4085244 | 3.49E-04 | 5.32E-05 | 2.88E-05 |
| 436 | 259594.5 | 4085267 | 3.44E-04 | 5.24E-05 | 2.84E-05 |
| 437 | 259585.8 | 4085290 | 3.38E-04 | 5.15E-05 | 2.79E-05 |
| 438 | 259577.1 | 4085313 | 3.32E-04 | 5.05E-05 | 2.73E-05 |
| 439 | 259568.5 | 4085336 | 3.25E-04 | 4.95E-05 | 2.68E-05 |
| 440 | 259559.8 | 4085359 | 3.18E-04 | 4.85E-05 | 2.62E-05 |
| 441 | 259551.1 | 4085382 | 3.12E-04 | 4.75E-05 | 2.57E-05 |
| 442 | 259542.4 | 4085405 | 3.06E-04 | 4.66E-05 | 2.52E-05 |
| 443 | 259533.8 | 4085428 | 3.00E-04 | 4.58E-05 | 2.48E-05 |
| 444 | 259525.1 | 4085451 | 2.95E-04 | 4.50E-05 | 2.43E-05 |
| 445 | 259516.4 | 4085474 | 2.90E-04 | 4.42E-05 | 2.39E-05 |
| 446 | 259507.7 | 4085497 | 2.86E-04 | 4.36E-05 | 2.36E-05 |
| 447 | 259499 | 4085521 | 2.83E-04 | 4.31E-05 | 2.33E-05 |
| 448 | 259490.4 | 4085544 | 2.80E-04 | 4.26E-05 | 2.31E-05 |
| 449 | 259481.7 | 4085567 | 2.77E-04 | 4.22E-05 | 2.28E-05 |
| 450 | 259473 | 4085590 | 2.74E-04 | 4.18E-05 | 2.26E-05 |
| 451 | 259464.3 | 4085613 | 2.72E-04 | 4.14E-05 | 2.24E-05 |
| 452 | 259455.7 | 4085636 | 2.69E-04 | 4.10E-05 | 2.22E-05 |
| 453 | 259447 | 4085659 | 2.67E-04 | 4.07E-05 | 2.20E-05 |
| 454 | 259438.3 | 4085682 | 2.65E-04 | 4.03E-05 | 2.18E-05 |
| 455 | 259429.6 | 4085705 | 2.62E-04 | 3.99E-05 | 2.16E-05 |
| 456 | 259421 | 4085728 | 2.59E-04 | 3.95E-05 | 2.14E-05 |
| 457 | 259412.3 | 4085751 | 2.57E-04 | 3.91E-05 | 2.11E-05 |
| 458 | 259403.6 | 4085774 | 2.53E-04 | 3.86E-05 | 2.09E-05 |
| 459 | 259394.9 | 4085797 | 2.50E-04 | 3.81E-05 | 2.06E-05 |
| 460 | 259386.2 | 4085820 | 2.47E-04 | 3.76E-05 | 2.03E-05 |
| 461 | 259377.6 | 4085843 | 2.43E-04 | 3.70E-05 | 2.00E-05 |
| 462 | 259368.9 | 4085867 | 2.39E-04 | 3.64E-05 | 1.97E-05 |
| 463 | 259360.2 | 4085890 | 2.36E-04 | 3.59E-05 | 1.94E-05 |

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| 464 | 259351.5 | 4085913 | 2.32E-04 | 3.54E-05 | 1.92E-05 |
| 465 | 259342.9 | 4085936 | 2.29E-04 | 3.49E-05 | 1.89E-05 |
| 466 | 259334.2 | 4085959 | 2.27E-04 | 3.45E-05 | 1.87E-05 |
| 467 | 259325.5 | 4085982 | 2.25E-04 | 3.42E-05 | 1.85E-05 |
| 468 | 259294.5 | 4086015 | 2.25E-04 | 3.42E-05 | 1.85E-05 |
| 469 | 259272.1 | 4086026 | 2.27E-04 | 3.46E-05 | 1.87E-05 |
| 470 | 259249.7 | 4086036 | 2.30E-04 | 3.50E-05 | 1.89E-05 |
| 471 | 259227.3 | 4086046 | 2.32E-04 | 3.54E-05 | 1.91E-05 |
| 472 | 259205 | 4086057 | 2.34E-04 | 3.57E-05 | 1.93E-05 |
| 473 | 259182.6 | 4086067 | 2.37E-04 | 3.61E-05 | 1.95E-05 |
| 474 | 259160.2 | 4086077 | 2.39E-04 | 3.64E-05 | 1.97E-05 |
| 475 | 259137.9 | 4086088 | 2.42E-04 | 3.69E-05 | 1.99E-05 |
| 476 | 259115.5 | 4086098 | 2.45E-04 | 3.73E-05 | 2.02E-05 |
| 477 | 259093.1 | 4086108 | 2.48E-04 | 3.78E-05 | 2.04E-05 |
| 478 | 259070.7 | 4086119 | 2.51E-04 | 3.83E-05 | 2.07E-05 |
| 479 | 259048.4 | 4086129 | 2.55E-04 | 3.89E-05 | 2.10E-05 |
| 480 | 259026 | 4086139 | 2.60E-04 | 3.96E-05 | 2.14E-05 |
| 481 | 259003.6 | 4086150 | 2.65E-04 | 4.03E-05 | 2.18E-05 |
| 482 | 258981.3 | 4086160 | 2.70E-04 | 4.11E-05 | 2.23E-05 |
| 483 | 258958.9 | 4086171 | 2.76E-04 | 4.21E-05 | 2.28E-05 |
| 484 | 258936.5 | 4086181 | 2.82E-04 | 4.30E-05 | 2.33E-05 |
| 485 | 258914.2 | 4086191 | 2.89E-04 | 4.40E-05 | 2.38E-05 |
| 486 | 258891.8 | 4086202 | 2.95E-04 | 4.50E-05 | 2.43E-05 |
| 487 | 258869.4 | 4086212 | 3.01E-04 | 4.59E-05 | 2.48E-05 |
| 488 | 258847 | 4086222 | 3.07E-04 | 4.67E-05 | 2.53E-05 |
| 489 | 258824.7 | 4086233 | 3.11E-04 | 4.74E-05 | 2.57E-05 |
| 490 | 258802.3 | 4086243 | 3.15E-04 | 4.80E-05 | 2.60E-05 |
| 491 | 258779.9 | 4086253 | 3.18E-04 | 4.84E-05 | 2.62E-05 |
| 492 | 258757.6 | 4086264 | 3.20E-04 | 4.88E-05 | 2.64E-05 |
| 493 | 258735.2 | 4086274 | 3.23E-04 | 4.91E-05 | 2.66E-05 |
| 494 | 258712.8 | 4086284 | 3.25E-04 | 4.94E-05 | 2.68E-05 |
| 495 | 258690.4 | 4086295 | 3.26E-04 | 4.97E-05 | 2.69E-05 |
| 496 | 258668.1 | 4086305 | 3.29E-04 | 5.01E-05 | 2.71E-05 |
| 497 | 258645.7 | 4086315 | 3.31E-04 | 5.04E-05 | 2.73E-05 |
| 498 | 258623.3 | 4086326 | 3.34E-04 | 5.09E-05 | 2.75E-05 |
| 499 | 258601 | 4086336 | 3.37E-04 | 5.13E-05 | 2.78E-05 |
| 500 | 258578.6 | 4086346 | 3.41E-04 | 5.19E-05 | 2.81E-05 |
| 501 | 258556.2 | 4086357 | 3.44E-04 | 5.24E-05 | 2.84E-05 |
| 502 | 258533.8 | 4086367 | 3.48E-04 | 5.31E-05 | 2.87E-05 |
| 503 | 258511.5 | 4086377 | 3.52E-04 | 5.37E-05 | 2.90E-05 |
| 504 | 258489.1 | 4086388 | 3.57E-04 | 5.43E-05 | 2.94E-05 |
| 505 | 258466.7 | 4086398 | 3.61E-04 | 5.50E-05 | 2.98E-05 |
| 506 | 258444.4 | 4086408 | 3.65E-04 | 5.57E-05 | 3.01E-05 |
| 507 | 259663.9 | 4085082 | 3.63E-04 | 5.54E-05 | 3.00E-05 |
| 508 | 259663.2 | 4085057 | 3.69E-04 | 5.62E-05 | 3.04E-05 |
| 509 | 259662.5 | 4085033 | 3.76E-04 | 5.73E-05 | 3.10E-05 |
| 510 | 259661.7 | 4085008 | 3.84E-04 | 5.85E-05 | 3.17E-05 |

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| 511 | 259661 | 4084983 | 3.94E-04 | 6.00E-05 | 3.25E-05 |
| 512 | 259660.3 | 4084958 | 4.06E-04 | 6.18E-05 | 3.34E-05 |
| 513 | 259659.6 | 4084934 | 4.19E-04 | 6.38E-05 | 3.45E-05 |
| 514 | 259658.9 | 4084909 | 4.32E-04 | 6.58E-05 | 3.56E-05 |
| 515 | 259658.1 | 4084884 | 4.45E-04 | 6.78E-05 | 3.67E-05 |
| 516 | 259855.1 | 4085100 | 3.03E-04 | 4.62E-05 | 2.50E-05 |
| 517 | 259846.4 | 4085123 | 3.03E-04 | 4.61E-05 | 2.50E-05 |
| 518 | 259837.7 | 4085146 | 3.03E-04 | 4.61E-05 | 2.50E-05 |
| 519 | 259829 | 4085169 | 3.02E-04 | 4.61E-05 | 2.49E-05 |
| 520 | 259820.3 | 4085192 | 3.02E-04 | 4.60E-05 | 2.49E-05 |
| 521 | 259811.6 | 4085215 | 3.01E-04 | 4.58E-05 | 2.48E-05 |
| 522 | 259802.9 | 4085238 | 2.98E-04 | 4.54E-05 | 2.46E-05 |
| 523 | 259794.2 | 4085262 | 2.95E-04 | 4.50E-05 | 2.43E-05 |
| 524 | 259785.5 | 4085285 | 2.91E-04 | 4.44E-05 | 2.40E-05 |
| 525 | 259776.8 | 4085308 | 2.87E-04 | 4.37E-05 | 2.36E-05 |
| 526 | 259768.1 | 4085331 | 2.82E-04 | 4.29E-05 | 2.32E-05 |
| 527 | 259759.4 | 4085354 | 2.77E-04 | 4.21E-05 | 2.28E-05 |
| 528 | 259750.6 | 4085377 | 2.71E-04 | 4.14E-05 | 2.24E-05 |
| 529 | 259741.9 | 4085400 | 2.66E-04 | 4.06E-05 | 2.20E-05 |
| 530 | 259733.2 | 4085424 | 2.62E-04 | 3.98E-05 | 2.16E-05 |
| 531 | 259724.5 | 4085447 | 2.57E-04 | 3.91E-05 | 2.12E-05 |
| 532 | 259715.8 | 4085470 | 2.53E-04 | 3.85E-05 | 2.08E-05 |
| 533 | 259707.1 | 4085493 | 2.49E-04 | 3.79E-05 | 2.05E-05 |
| 534 | 259698.4 | 4085516 | 2.45E-04 | 3.73E-05 | 2.02E-05 |
| 535 | 259689.7 | 4085539 | 2.42E-04 | 3.68E-05 | 1.99E-05 |
| 536 | 259681 | 4085562 | 2.39E-04 | 3.64E-05 | 1.97E-05 |
| 537 | 259672.3 | 4085586 | 2.37E-04 | 3.60E-05 | 1.95E-05 |
| 538 | 259663.6 | 4085609 | 2.34E-04 | 3.57E-05 | 1.93E-05 |
| 539 | 259654.9 | 4085632 | 2.32E-04 | 3.54E-05 | 1.92E-05 |
| 540 | 259646.2 | 4085655 | 2.31E-04 | 3.51E-05 | 1.90E-05 |
| 541 | 259637.5 | 4085678 | 2.29E-04 | 3.49E-05 | 1.89E-05 |
| 542 | 259628.8 | 4085701 | 2.27E-04 | 3.47E-05 | 1.87E-05 |
| 543 | 259620.1 | 4085724 | 2.26E-04 | 3.44E-05 | 1.86E-05 |
| 544 | 259611.4 | 4085748 | 2.24E-04 | 3.41E-05 | 1.84E-05 |
| 545 | 259602.6 | 4085771 | 2.22E-04 | 3.39E-05 | 1.83E-05 |
| 546 | 259593.9 | 4085794 | 2.21E-04 | 3.36E-05 | 1.82E-05 |
| 547 | 259585.2 | 4085817 | 2.19E-04 | 3.33E-05 | 1.80E-05 |
| 548 | 259576.5 | 4085840 | 2.17E-04 | 3.31E-05 | 1.79E-05 |
| 549 | 259567.8 | 4085863 | 2.15E-04 | 3.28E-05 | 1.77E-05 |
| 550 | 259559.1 | 4085887 | 2.13E-04 | 3.24E-05 | 1.75E-05 |
| 551 | 259550.4 | 4085910 | 2.10E-04 | 3.20E-05 | 1.73E-05 |
| 552 | 259541.7 | 4085933 | 2.07E-04 | 3.16E-05 | 1.71E-05 |
| 553 | 259533 | 4085956 | 2.05E-04 | 3.12E-05 | 1.69E-05 |
| 554 | 259524.3 | 4085979 | 2.02E-04 | 3.07E-05 | 1.66E-05 |
| 555 | 259515.6 | 4086002 | 1.99E-04 | 3.03E-05 | 1.64E-05 |
| 556 | 259506.9 | 4086025 | 1.97E-04 | 3.00E-05 | 1.62E-05 |
| 557 | 259498.2 | 4086049 | 1.94E-04 | 2.96E-05 | 1.60E-05 |

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| 558 | 259489.5 | 4086072 | 1.92E-04 | 2.93E-05 | 1.59E-05 |
| 559 | 259480.8 | 4086095 | 1.91E-04 | 2.90E-05 | 1.57E-05 |
| 560 | 259472.1 | 4086118 | 1.89E-04 | 2.88E-05 | 1.56E-05 |
| 561 | 259440.9 | 4086152 | 1.89E-04 | 2.88E-05 | 1.56E-05 |
| 562 | 259418.5 | 4086162 | 1.91E-04 | 2.91E-05 | 1.57E-05 |
| 563 | 259396 | 4086172 | 1.93E-04 | 2.94E-05 | 1.59E-05 |
| 564 | 259373.6 | 4086183 | 1.95E-04 | 2.97E-05 | 1.61E-05 |
| 565 | 259351.1 | 4086193 | 1.97E-04 | 3.00E-05 | 1.62E-05 |
| 566 | 259328.7 | 4086203 | 1.99E-04 | 3.03E-05 | 1.64E-05 |
| 567 | 259306.2 | 4086214 | 2.01E-04 | 3.06E-05 | 1.66E-05 |
| 568 | 259283.8 | 4086224 | 2.03E-04 | 3.09E-05 | 1.67E-05 |
| 569 | 259261.3 | 4086235 | 2.05E-04 | 3.12E-05 | 1.69E-05 |
| 570 | 259238.9 | 4086245 | 2.07E-04 | 3.16E-05 | 1.71E-05 |
| 571 | 259216.4 | 4086255 | 2.10E-04 | 3.20E-05 | 1.73E-05 |
| 572 | 259194 | 4086266 | 2.13E-04 | 3.24E-05 | 1.75E-05 |
| 573 | 259171.6 | 4086276 | 2.16E-04 | 3.28E-05 | 1.78E-05 |
| 574 | 259149.1 | 4086286 | 2.19E-04 | 3.33E-05 | 1.80E-05 |
| 575 | 259126.7 | 4086297 | 2.22E-04 | 3.39E-05 | 1.83E-05 |
| 576 | 259104.2 | 4086307 | 2.26E-04 | 3.45E-05 | 1.87E-05 |
| 577 | 259081.8 | 4086318 | 2.31E-04 | 3.52E-05 | 1.90E-05 |
| 578 | 259059.3 | 4086328 | 2.36E-04 | 3.59E-05 | 1.94E-05 |
| 579 | 259036.9 | 4086338 | 2.41E-04 | 3.67E-05 | 1.98E-05 |
| 580 | 259014.4 | 4086349 | 2.46E-04 | 3.75E-05 | 2.03E-05 |
| 581 | 258992 | 4086359 | 2.51E-04 | 3.82E-05 | 2.07E-05 |
| 582 | 258969.5 | 4086370 | 2.56E-04 | 3.90E-05 | 2.11E-05 |
| 583 | 258947.1 | 4086380 | 2.61E-04 | 3.97E-05 | 2.15E-05 |
| 584 | 258924.6 | 4086390 | 2.64E-04 | 4.03E-05 | 2.18E-05 |
| 585 | 258902.2 | 4086401 | 2.68E-04 | 4.08E-05 | 2.21E-05 |
| 586 | 258879.8 | 4086411 | 2.70E-04 | 4.12E-05 | 2.23E-05 |
| 587 | 258857.3 | 4086421 | 2.72E-04 | 4.15E-05 | 2.25E-05 |
| 588 | 258834.9 | 4086432 | 2.74E-04 | 4.17E-05 | 2.26E-05 |
| 589 | 258812.4 | 4086442 | 2.75E-04 | 4.20E-05 | 2.27E-05 |
| 590 | 258790 | 4086453 | 2.77E-04 | 4.21E-05 | 2.28E-05 |
| 591 | 258767.5 | 4086463 | 2.78E-04 | 4.24E-05 | 2.29E-05 |
| 592 | 258745.1 | 4086473 | 2.79E-04 | 4.26E-05 | 2.30E-05 |
| 593 | 258722.6 | 4086484 | 2.81E-04 | 4.28E-05 | 2.31E-05 |
| 594 | 258700.2 | 4086494 | 2.82E-04 | 4.30E-05 | 2.33E-05 |
| 595 | 258677.7 | 4086504 | 2.84E-04 | 4.33E-05 | 2.34E-05 |
| 596 | 258655.3 | 4086515 | 2.87E-04 | 4.37E-05 | 2.36E-05 |
| 597 | 258632.8 | 4086525 | 2.89E-04 | 4.40E-05 | 2.38E-05 |
| 598 | 258610.4 | 4086536 | 2.91E-04 | 4.44E-05 | 2.40E-05 |
| 599 | 258588 | 4086546 | 2.94E-04 | 4.48E-05 | 2.43E-05 |
| 600 | 258565.5 | 4086556 | 2.97E-04 | 4.53E-05 | 2.45E-05 |
| 601 | 258543.1 | 4086567 | 3.00E-04 | 4.58E-05 | 2.48E-05 |
| 602 | 258520.6 | 4086577 | 3.03E-04 | 4.62E-05 | 2.50E-05 |
| 603 | 258498.2 | 4086588 | 3.07E-04 | 4.67E-05 | 2.53E-05 |
| 604 | 258475.7 | 4086598 | 3.10E-04 | 4.72E-05 | 2.55E-05 |

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| 605 | 258453.3 | 4086608 | 3.12E-04 | 4.76E-05 | 2.57E-05 |
| 606 | 259863.8 | 4085076 | 3.03E-04 | 4.62E-05 | 2.50E-05 |
| 607 | 259863.1 | 4085052 | 3.07E-04 | 4.68E-05 | 2.53E-05 |
| 608 | 259862.4 | 4085027 | 3.12E-04 | 4.75E-05 | 2.57E-05 |
| 609 | 259861.7 | 4085002 | 3.18E-04 | 4.85E-05 | 2.62E-05 |
| 610 | 259860.9 | 4084977 | 3.26E-04 | 4.96E-05 | 2.68E-05 |
| 611 | 259860.2 | 4084953 | 3.34E-04 | 5.09E-05 | 2.76E-05 |
| 612 | 259859.5 | 4084928 | 3.44E-04 | 5.24E-05 | 2.84E-05 |
| 613 | 259858.8 | 4084903 | 3.54E-04 | 5.40E-05 | 2.92E-05 |
| 614 | 259858 | 4084878 | 3.64E-04 | 5.55E-05 | 3.00E-05 |
| 615 | 258357.7 | 4084897 | 3.53E-02 | 5.38E-03 | 2.91E-03 |
| 616 | 258333.3 | 4084898 | 3.70E-02 | 5.64E-03 | 3.05E-03 |
| 617 | 258309 | 4084899 | 3.79E-02 | 5.77E-03 | 3.12E-03 |
| 618 | 258284.7 | 4084900 | 3.84E-02 | 5.85E-03 | 3.17E-03 |
| 619 | 258260.3 | 4084901 | 3.88E-02 | 5.91E-03 | 3.20E-03 |
| 620 | 258236 | 4084902 | 3.91E-02 | 5.96E-03 | 3.22E-03 |
| 621 | 258211.7 | 4084903 | 3.93E-02 | 5.98E-03 | 3.24E-03 |
| 622 | 258187.3 | 4084904 | 3.93E-02 | 5.99E-03 | 3.24E-03 |
| 623 | 258163 | 4084905 | 3.94E-02 | 6.00E-03 | 3.24E-03 |
| 624 | 258138.7 | 4084906 | 3.93E-02 | 5.99E-03 | 3.24E-03 |
| 625 | 258114.3 | 4084907 | 3.93E-02 | 5.98E-03 | 3.24E-03 |
| 626 | 258090 | 4084908 | 3.92E-02 | 5.97E-03 | 3.23E-03 |
| 627 | 258065.7 | 4084909 | 3.90E-02 | 5.95E-03 | 3.22E-03 |
| 628 | 258041.3 | 4084910 | 3.89E-02 | 5.92E-03 | 3.20E-03 |
| 629 | 258017 | 4084911 | 3.87E-02 | 5.89E-03 | 3.19E-03 |
| 630 | 257992.7 | 4084912 | 3.84E-02 | 5.85E-03 | 3.17E-03 |
| 631 | 257968.3 | 4084913 | 3.81E-02 | 5.81E-03 | 3.14E-03 |
| 632 | 257944 | 4084914 | 3.78E-02 | 5.76E-03 | 3.12E-03 |
| 633 | 257919.7 | 4084915 | 3.74E-02 | 5.69E-03 | 3.08E-03 |
| 634 | 257895.4 | 4084916 | 3.69E-02 | 5.62E-03 | 3.04E-03 |
| 635 | 257871 | 4084917 | 3.63E-02 | 5.53E-03 | 2.99E-03 |
| 636 | 257846.7 | 4084918 | 3.56E-02 | 5.42E-03 | 2.93E-03 |
| 637 | 257822.4 | 4084919 | 3.47E-02 | 5.29E-03 | 2.86E-03 |
| 638 | 257798 | 4084920 | 3.37E-02 | 5.13E-03 | 2.78E-03 |
| 639 | 257773.7 | 4084921 | 3.24E-02 | 4.94E-03 | 2.67E-03 |
| 640 | 257749.4 | 4084922 | 3.09E-02 | 4.71E-03 | 2.55E-03 |
| 641 | 257725 | 4084923 | 2.91E-02 | 4.43E-03 | 2.40E-03 |
| 642 | 257700.7 | 4084924 | 2.69E-02 | 4.10E-03 | 2.22E-03 |
| 643 | 257676.4 | 4084925 | 2.42E-02 | 3.68E-03 | 1.99E-03 |
| 644 | 257652 | 4084926 | 2.08E-02 | 3.17E-03 | 1.72E-03 |
| 645 | 257627.7 | 4084927 | 1.67E-02 | 2.55E-03 | 1.38E-03 |
| 646 | 257603.4 | 4084928 | 1.20E-02 | 1.82E-03 | 9.87E-04 |
| 647 | 257579 | 4084929 | 7.49E-03 | 1.14E-03 | 6.17E-04 |
| 648 | 257554.7 | 4084930 | 5.06E-03 | 7.71E-04 | 4.17E-04 |
| 649 | 258374.7 | 4084879 | 2.62E-02 | 4.00E-03 | 2.16E-03 |
| 650 | 258332.3 | 4084873 | 2.57E-02 | 3.92E-03 | 2.12E-03 |
| 651 | 258308 | 4084874 | 2.62E-02 | 3.98E-03 | 2.16E-03 |

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| 652 | 258283.6 | 4084875 | 2.64E-02 | 4.03E-03 | 2.18E-03 |
| 653 | 258259.3 | 4084876 | 2.67E-02 | 4.06E-03 | 2.20E-03 |
| 654 | 258235 | 4084877 | 2.68E-02 | 4.08E-03 | 2.21E-03 |
| 655 | 258210.6 | 4084878 | 2.69E-02 | 4.10E-03 | 2.22E-03 |
| 656 | 258186.3 | 4084879 | 2.69E-02 | 4.10E-03 | 2.22E-03 |
| 657 | 258162 | 4084880 | 2.69E-02 | 4.10E-03 | 2.22E-03 |
| 658 | 258137.6 | 4084881 | 2.69E-02 | 4.10E-03 | 2.22E-03 |
| 659 | 258113.3 | 4084882 | 2.68E-02 | 4.09E-03 | 2.21E-03 |
| 660 | 258089 | 4084883 | 2.68E-02 | 4.08E-03 | 2.21E-03 |
| 661 | 258064.6 | 4084884 | 2.66E-02 | 4.06E-03 | 2.19E-03 |
| 662 | 258040.3 | 4084885 | 2.64E-02 | 4.03E-03 | 2.18E-03 |
| 663 | 258016 | 4084886 | 2.62E-02 | 4.00E-03 | 2.16E-03 |
| 664 | 257991.7 | 4084887 | 2.60E-02 | 3.96E-03 | 2.14E-03 |
| 665 | 257967.3 | 4084888 | 2.57E-02 | 3.91E-03 | 2.12E-03 |
| 666 | 257943 | 4084889 | 2.53E-02 | 3.85E-03 | 2.08E-03 |
| 667 | 257918.7 | 4084890 | 2.49E-02 | 3.79E-03 | 2.05E-03 |
| 668 | 257894.3 | 4084891 | 2.43E-02 | 3.71E-03 | 2.01E-03 |
| 669 | 257870 | 4084892 | 2.38E-02 | 3.62E-03 | 1.96E-03 |
| 670 | 257845.7 | 4084893 | 2.30E-02 | 3.51E-03 | 1.90E-03 |
| 671 | 257821.3 | 4084894 | 2.22E-02 | 3.38E-03 | 1.83E-03 |
| 672 | 257797 | 4084895 | 2.12E-02 | 3.23E-03 | 1.75E-03 |
| 673 | 257772.7 | 4084896 | 2.01E-02 | 3.06E-03 | 1.65E-03 |
| 674 | 257748.3 | 4084897 | 1.87E-02 | 2.85E-03 | 1.54E-03 |
| 675 | 257724 | 4084898 | 1.71E-02 | 2.61E-03 | 1.41E-03 |
| 676 | 257699.7 | 4084899 | 1.53E-02 | 2.33E-03 | 1.26E-03 |
| 677 | 257675.3 | 4084900 | 1.32E-02 | 2.01E-03 | 1.09E-03 |
| 678 | 257651 | 4084901 | 1.09E-02 | 1.66E-03 | 8.97E-04 |
| 679 | 257626.7 | 4084902 | 8.42E-03 | 1.28E-03 | 6.94E-04 |
| 680 | 257602.3 | 4084903 | 6.15E-03 | 9.37E-04 | 5.07E-04 |
| 681 | 257578 | 4084904 | 4.48E-03 | 6.82E-04 | 3.69E-04 |
| 682 | 257553.7 | 4084905 | 3.49E-03 | 5.31E-04 | 2.88E-04 |
| 683 | 258373.7 | 4084854 | 2.01E-02 | 3.07E-03 | 1.66E-03 |
| 684 | 258417.8 | 4084885 | 2.28E-02 | 3.47E-03 | 1.88E-03 |
| 685 | 258331.3 | 4084848 | 1.96E-02 | 2.99E-03 | 1.62E-03 |
| 686 | 258306.9 | 4084849 | 1.99E-02 | 3.03E-03 | 1.64E-03 |
| 687 | 258282.6 | 4084850 | 2.00E-02 | 3.05E-03 | 1.65E-03 |
| 688 | 258258.3 | 4084851 | 2.02E-02 | 3.07E-03 | 1.66E-03 |
| 689 | 258233.9 | 4084852 | 2.02E-02 | 3.08E-03 | 1.67E-03 |
| 690 | 258209.6 | 4084853 | 2.03E-02 | 3.09E-03 | 1.67E-03 |
| 691 | 258185.3 | 4084854 | 2.03E-02 | 3.09E-03 | 1.67E-03 |
| 692 | 258160.9 | 4084855 | 2.02E-02 | 3.08E-03 | 1.67E-03 |
| 693 | 258136.6 | 4084856 | 2.02E-02 | 3.07E-03 | 1.66E-03 |
| 694 | 258112.3 | 4084857 | 2.01E-02 | 3.06E-03 | 1.65E-03 |
| 695 | 258088 | 4084858 | 2.00E-02 | 3.04E-03 | 1.64E-03 |
| 696 | 258063.6 | 4084859 | 1.98E-02 | 3.02E-03 | 1.63E-03 |
| 697 | 258039.3 | 4084860 | 1.96E-02 | 2.99E-03 | 1.62E-03 |
| 698 | 258015 | 4084861 | 1.94E-02 | 2.95E-03 | 1.60E-03 |

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| 699 | 257990.6 | 4084862 | 1.91E-02 | 2.91E-03 | 1.58E-03 |
| 700 | 257966.3 | 4084863 | 1.88E-02 | 2.86E-03 | 1.55E-03 |
| 701 | 257942 | 4084864 | 1.84E-02 | 2.81E-03 | 1.52E-03 |
| 702 | 257917.6 | 4084865 | 1.80E-02 | 2.74E-03 | 1.48E-03 |
| 703 | 257893.3 | 4084866 | 1.75E-02 | 2.66E-03 | 1.44E-03 |
| 704 | 257869 | 4084867 | 1.69E-02 | 2.57E-03 | 1.39E-03 |
| 705 | 257844.6 | 4084868 | 1.62E-02 | 2.47E-03 | 1.33E-03 |
| 706 | 257820.3 | 4084869 | 1.54E-02 | 2.35E-03 | 1.27E-03 |
| 707 | 257796 | 4084870 | 1.45E-02 | 2.21E-03 | 1.19E-03 |
| 708 | 257771.6 | 4084871 | 1.35E-02 | 2.05E-03 | 1.11E-03 |
| 709 | 257747.3 | 4084872 | 1.23E-02 | 1.87E-03 | 1.01E-03 |
| 710 | 257723 | 4084873 | 1.10E-02 | 1.68E-03 | 9.06E-04 |
| 711 | 257698.6 | 4084874 | 9.58E-03 | 1.46E-03 | 7.89E-04 |
| 712 | 257674.3 | 4084875 | 8.07E-03 | 1.23E-03 | 6.65E-04 |
| 713 | 257650 | 4084876 | 6.55E-03 | 9.97E-04 | 5.40E-04 |
| 714 | 257625.6 | 4084877 | 5.14E-03 | 7.83E-04 | 4.24E-04 |
| 715 | 257601.3 | 4084878 | 3.99E-03 | 6.08E-04 | 3.29E-04 |
| 716 | 257577 | 4084879 | 3.17E-03 | 4.84E-04 | 2.62E-04 |
| 717 | 257552.7 | 4084880 | 2.63E-03 | 4.01E-04 | 2.17E-04 |
| 718 | 258372.7 | 4084829 | 1.62E-02 | 2.46E-03 | 1.33E-03 |
| 719 | 258408.8 | 4084842 | 1.70E-02 | 2.60E-03 | 1.40E-03 |
| 720 | 258434.8 | 4084866 | 1.84E-02 | 2.80E-03 | 1.52E-03 |
| 721 | 258330.2 | 4084823 | 1.57E-02 | 2.39E-03 | 1.29E-03 |
| 722 | 258305.9 | 4084824 | 1.58E-02 | 2.41E-03 | 1.31E-03 |
| 723 | 258281.6 | 4084825 | 1.59E-02 | 2.43E-03 | 1.31E-03 |
| 724 | 258257.3 | 4084826 | 1.60E-02 | 2.44E-03 | 1.32E-03 |
| 725 | 258232.9 | 4084827 | 1.60E-02 | 2.44E-03 | 1.32E-03 |
| 726 | 258208.6 | 4084828 | 1.60E-02 | 2.44E-03 | 1.32E-03 |
| 727 | 258184.3 | 4084829 | 1.60E-02 | 2.43E-03 | 1.32E-03 |
| 728 | 258159.9 | 4084830 | 1.59E-02 | 2.43E-03 | 1.31E-03 |
| 729 | 258135.6 | 4084831 | 1.58E-02 | 2.41E-03 | 1.31E-03 |
| 730 | 258111.3 | 4084832 | 1.57E-02 | 2.40E-03 | 1.30E-03 |
| 731 | 258086.9 | 4084833 | 1.56E-02 | 2.38E-03 | 1.29E-03 |
| 732 | 258062.6 | 4084834 | 1.54E-02 | 2.35E-03 | 1.27E-03 |
| 733 | 258038.3 | 4084835 | 1.52E-02 | 2.32E-03 | 1.25E-03 |
| 734 | 258013.9 | 4084836 | 1.50E-02 | 2.28E-03 | 1.23E-03 |
| 735 | 257989.6 | 4084837 | 1.47E-02 | 2.24E-03 | 1.21E-03 |
| 736 | 257965.3 | 4084838 | 1.44E-02 | 2.19E-03 | 1.18E-03 |
| 737 | 257940.9 | 4084839 | 1.40E-02 | 2.13E-03 | 1.15E-03 |
| 738 | 257916.6 | 4084840 | 1.36E-02 | 2.06E-03 | 1.12E-03 |
| 739 | 257892.3 | 4084841 | 1.31E-02 | 1.99E-03 | 1.08E-03 |
| 740 | 257867.9 | 4084842 | 1.25E-02 | 1.90E-03 | 1.03E-03 |
| 741 | 257843.6 | 4084843 | 1.18E-02 | 1.81E-03 | 9.77E-04 |
| 742 | 257819.3 | 4084844 | 1.11E-02 | 1.70E-03 | 9.17E-04 |
| 743 | 257794.9 | 4084845 | 1.03E-02 | 1.57E-03 | 8.51E-04 |
| 744 | 257770.6 | 4084846 | 9.44E-03 | 1.44E-03 | 7.78E-04 |
| 745 | 257746.3 | 4084847 | 8.48E-03 | 1.29E-03 | 6.99E-04 |

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| 746 | 257722 | 4084848 | 7.46E-03 | 1.14E-03 | 6.15E-04 |
| 747 | 257697.6 | 4084849 | 6.40E-03 | 9.75E-04 | 5.27E-04 |
| 748 | 257673.3 | 4084850 | 5.36E-03 | 8.16E-04 | 4.41E-04 |
| 749 | 257649 | 4084851 | 4.39E-03 | 6.68E-04 | 3.62E-04 |
| 750 | 257624.6 | 4084852 | 3.56E-03 | 5.42E-04 | 2.93E-04 |
| 751 | 257600.3 | 4084853 | 2.91E-03 | 4.43E-04 | 2.40E-04 |
| 752 | 257576 | 4084854 | 2.43E-03 | 3.71E-04 | 2.01E-04 |
| 753 | 257551.6 | 4084855 | 2.09E-03 | 3.19E-04 | 1.73E-04 |
| 754 | 258374.2 | 4084780 | 1.13E-02 | 1.73E-03 | 9.34E-04 |
| 755 | 258395.9 | 4084788 | 1.18E-02 | 1.80E-03 | 9.73E-04 |
| 756 | 258417.6 | 4084796 | 1.22E-02 | 1.85E-03 | 1.00E-03 |
| 757 | 258439.3 | 4084804 | 1.24E-02 | 1.88E-03 | 1.02E-03 |
| 758 | 258470.5 | 4084833 | 1.32E-02 | 2.01E-03 | 1.09E-03 |
| 759 | 258480 | 4084854 | 1.38E-02 | 2.11E-03 | 1.14E-03 |
| 760 | 258489.6 | 4084876 | 1.39E-02 | 2.12E-03 | 1.15E-03 |
| 761 | 258499.1 | 4084897 | 1.36E-02 | 2.07E-03 | 1.12E-03 |
| 762 | 258352.5 | 4084772 | 1.08E-02 | 1.65E-03 | 8.91E-04 |
| 763 | 258328.2 | 4084773 | 1.09E-02 | 1.66E-03 | 8.97E-04 |
| 764 | 258303.9 | 4084774 | 1.09E-02 | 1.66E-03 | 9.01E-04 |
| 765 | 258279.5 | 4084775 | 1.09E-02 | 1.67E-03 | 9.02E-04 |
| 766 | 258255.2 | 4084776 | 1.09E-02 | 1.66E-03 | 9.01E-04 |
| 767 | 258230.9 | 4084777 | 1.09E-02 | 1.66E-03 | 8.98E-04 |
| 768 | 258206.5 | 4084778 | 1.08E-02 | 1.65E-03 | 8.93E-04 |
| 769 | 258182.2 | 4084779 | 1.08E-02 | 1.64E-03 | 8.87E-04 |
| 770 | 258157.9 | 4084780 | 1.07E-02 | 1.62E-03 | 8.79E-04 |
| 771 | 258133.5 | 4084781 | 1.05E-02 | 1.61E-03 | 8.69E-04 |
| 772 | 258109.2 | 4084782 | 1.04E-02 | 1.59E-03 | 8.58E-04 |
| 773 | 258084.9 | 4084783 | 1.02E-02 | 1.56E-03 | 8.44E-04 |
| 774 | 258060.5 | 4084784 | 1.00E-02 | 1.53E-03 | 8.28E-04 |
| 775 | 258036.2 | 4084785 | 9.83E-03 | 1.50E-03 | 8.10E-04 |
| 776 | 258011.9 | 4084786 | 9.58E-03 | 1.46E-03 | 7.90E-04 |
| 777 | 257987.5 | 4084787 | 9.30E-03 | 1.42E-03 | 7.66E-04 |
| 778 | 257963.2 | 4084788 | 8.98E-03 | 1.37E-03 | 7.40E-04 |
| 779 | 257938.9 | 4084789 | 8.62E-03 | 1.31E-03 | 7.11E-04 |
| 780 | 257914.6 | 4084790 | 8.23E-03 | 1.25E-03 | 6.78E-04 |
| 781 | 257890.2 | 4084791 | 7.79E-03 | 1.19E-03 | 6.42E-04 |
| 782 | 257865.9 | 4084792 | 7.31E-03 | 1.11E-03 | 6.03E-04 |
| 783 | 257841.6 | 4084793 | 6.80E-03 | 1.04E-03 | 5.61E-04 |
| 784 | 257817.2 | 4084794 | 6.25E-03 | 9.52E-04 | 5.15E-04 |
| 785 | 257792.9 | 4084795 | 5.67E-03 | 8.64E-04 | 4.68E-04 |
| 786 | 257768.6 | 4084796 | 5.08E-03 | 7.74E-04 | 4.19E-04 |
| 787 | 257744.2 | 4084797 | 4.48E-03 | 6.82E-04 | 3.69E-04 |
| 788 | 257719.9 | 4084798 | 3.90E-03 | 5.94E-04 | 3.21E-04 |
| 789 | 257695.6 | 4084799 | 3.35E-03 | 5.10E-04 | 2.76E-04 |
| 790 | 257671.2 | 4084800 | 2.86E-03 | 4.36E-04 | 2.36E-04 |
| 791 | 257646.9 | 4084801 | 2.44E-03 | 3.72E-04 | 2.01E-04 |
| 792 | 257622.6 | 4084802 | 2.10E-03 | 3.20E-04 | 1.73E-04 |

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| 793 | 257598.2 | 4084803 | 1.83E-03 | 2.79E-04 | 1.51E-04 |
| 794 | 257573.9 | 4084804 | 1.62E-03 | 2.46E-04 | 1.33E-04 |
| 795 | 257549.6 | 4084805 | 1.45E-03 | 2.21E-04 | 1.19E-04 |
| 796 | 258371.1 | 4084730 | 8.36E-03 | 1.27E-03 | 6.89E-04 |
| 797 | 258412.4 | 4084745 | 9.01E-03 | 1.37E-03 | 7.43E-04 |
| 798 | 258453.7 | 4084760 | 9.45E-03 | 1.44E-03 | 7.79E-04 |
| 799 | 258504.1 | 4084796 | 1.00E-02 | 1.53E-03 | 8.26E-04 |
| 800 | 258522.3 | 4084836 | 1.06E-02 | 1.62E-03 | 8.75E-04 |
| 801 | 258540.4 | 4084876 | 1.03E-02 | 1.56E-03 | 8.45E-04 |
| 802 | 258326.1 | 4084723 | 8.01E-03 | 1.22E-03 | 6.60E-04 |
| 803 | 258301.8 | 4084724 | 7.99E-03 | 1.22E-03 | 6.59E-04 |
| 804 | 258277.5 | 4084725 | 7.96E-03 | 1.21E-03 | 6.56E-04 |
| 805 | 258253.1 | 4084726 | 7.91E-03 | 1.20E-03 | 6.52E-04 |
| 806 | 258228.8 | 4084727 | 7.84E-03 | 1.19E-03 | 6.46E-04 |
| 807 | 258204.5 | 4084728 | 7.76E-03 | 1.18E-03 | 6.39E-04 |
| 808 | 258180.1 | 4084729 | 7.66E-03 | 1.17E-03 | 6.31E-04 |
| 809 | 258155.8 | 4084730 | 7.54E-03 | 1.15E-03 | 6.21E-04 |
| 810 | 258131.5 | 4084731 | 7.40E-03 | 1.13E-03 | 6.10E-04 |
| 811 | 258107.2 | 4084732 | 7.25E-03 | 1.10E-03 | 5.98E-04 |
| 812 | 258082.8 | 4084733 | 7.08E-03 | 1.08E-03 | 5.83E-04 |
| 813 | 258058.5 | 4084734 | 6.88E-03 | 1.05E-03 | 5.67E-04 |
| 814 | 258034.2 | 4084735 | 6.67E-03 | 1.02E-03 | 5.50E-04 |
| 815 | 258009.8 | 4084736 | 6.43E-03 | 9.80E-04 | 5.30E-04 |
| 816 | 257985.5 | 4084737 | 6.17E-03 | 9.40E-04 | 5.09E-04 |
| 817 | 257961.2 | 4084738 | 5.89E-03 | 8.97E-04 | 4.85E-04 |
| 818 | 257936.8 | 4084739 | 5.58E-03 | 8.50E-04 | 4.60E-04 |
| 819 | 257912.5 | 4084740 | 5.25E-03 | 8.00E-04 | 4.33E-04 |
| 820 | 257888.2 | 4084741 | 4.90E-03 | 7.47E-04 | 4.04E-04 |
| 821 | 257863.8 | 4084742 | 4.54E-03 | 6.91E-04 | 3.74E-04 |
| 822 | 257839.5 | 4084743 | 4.16E-03 | 6.34E-04 | 3.43E-04 |
| 823 | 257815.2 | 4084744 | 3.78E-03 | 5.75E-04 | 3.11E-04 |
| 824 | 257790.8 | 4084745 | 3.39E-03 | 5.17E-04 | 2.80E-04 |
| 825 | 257766.5 | 4084746 | 3.02E-03 | 4.61E-04 | 2.49E-04 |
| 826 | 257742.2 | 4084747 | 2.67E-03 | 4.07E-04 | 2.20E-04 |
| 827 | 257717.8 | 4084748 | 2.35E-03 | 3.58E-04 | 1.94E-04 |
| 828 | 257693.5 | 4084749 | 2.06E-03 | 3.14E-04 | 1.70E-04 |
| 829 | 257669.2 | 4084750 | 1.82E-03 | 2.77E-04 | 1.50E-04 |
| 830 | 257644.8 | 4084751 | 1.61E-03 | 2.45E-04 | 1.33E-04 |
| 831 | 257620.5 | 4084752 | 1.43E-03 | 2.19E-04 | 1.18E-04 |
| 832 | 257596.2 | 4084753 | 1.29E-03 | 1.97E-04 | 1.06E-04 |
| 833 | 257571.9 | 4084754 | 1.17E-03 | 1.79E-04 | 9.68E-05 |
| 834 | 257547.5 | 4084755 | 1.08E-03 | 1.64E-04 | 8.86E-05 |
| 835 | 258371 | 4084681 | 6.41E-03 | 9.77E-04 | 5.29E-04 |
| 836 | 258393.6 | 4084689 | 6.71E-03 | 1.02E-03 | 5.53E-04 |
| 837 | 258416.2 | 4084697 | 6.99E-03 | 1.06E-03 | 5.76E-04 |
| 838 | 258438.8 | 4084706 | 7.23E-03 | 1.10E-03 | 5.96E-04 |
| 839 | 258461.4 | 4084714 | 7.43E-03 | 1.13E-03 | 6.13E-04 |

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| 840 | 258484 | 4084722 | 7.57E-03 | 1.15E-03 | 6.24E-04 |
| 841 | 258506.6 | 4084731 | 7.62E-03 | 1.16E-03 | 6.28E-04 |
| 842 | 258539.1 | 4084761 | 7.99E-03 | 1.22E-03 | 6.59E-04 |
| 843 | 258549 | 4084783 | 8.29E-03 | 1.26E-03 | 6.84E-04 |
| 844 | 258558.9 | 4084805 | 8.44E-03 | 1.29E-03 | 6.95E-04 |
| 845 | 258568.9 | 4084827 | 8.40E-03 | 1.28E-03 | 6.93E-04 |
| 846 | 258578.8 | 4084849 | 8.17E-03 | 1.24E-03 | 6.73E-04 |
| 847 | 258588.7 | 4084871 | 7.75E-03 | 1.18E-03 | 6.39E-04 |
| 848 | 258598.6 | 4084893 | 7.19E-03 | 1.10E-03 | 5.93E-04 |
| 849 | 258348.4 | 4084672 | 6.11E-03 | 9.30E-04 | 5.03E-04 |
| 850 | 258324.1 | 4084673 | 6.08E-03 | 9.26E-04 | 5.01E-04 |
| 851 | 258299.8 | 4084674 | 6.04E-03 | 9.20E-04 | 4.98E-04 |
| 852 | 258275.4 | 4084675 | 5.98E-03 | 9.11E-04 | 4.93E-04 |
| 853 | 258251.1 | 4084676 | 5.91E-03 | 9.00E-04 | 4.87E-04 |
| 854 | 258226.8 | 4084677 | 5.82E-03 | 8.87E-04 | 4.80E-04 |
| 855 | 258202.4 | 4084678 | 5.73E-03 | 8.72E-04 | 4.72E-04 |
| 856 | 258178.1 | 4084679 | 5.61E-03 | 8.55E-04 | 4.63E-04 |
| 857 | 258153.8 | 4084680 | 5.49E-03 | 8.36E-04 | 4.52E-04 |
| 858 | 258129.4 | 4084681 | 5.35E-03 | 8.15E-04 | 4.41E-04 |
| 859 | 258105.1 | 4084682 | 5.20E-03 | 7.92E-04 | 4.28E-04 |
| 860 | 258080.8 | 4084683 | 5.03E-03 | 7.66E-04 | 4.15E-04 |
| 861 | 258056.4 | 4084684 | 4.85E-03 | 7.39E-04 | 4.00E-04 |
| 862 | 258032.1 | 4084685 | 4.65E-03 | 7.09E-04 | 3.83E-04 |
| 863 | 258007.8 | 4084686 | 4.44E-03 | 6.77E-04 | 3.66E-04 |
| 864 | 257983.4 | 4084687 | 4.22E-03 | 6.43E-04 | 3.48E-04 |
| 865 | 257959.1 | 4084688 | 3.98E-03 | 6.07E-04 | 3.28E-04 |
| 866 | 257934.8 | 4084689 | 3.74E-03 | 5.69E-04 | 3.08E-04 |
| 867 | 257910.4 | 4084690 | 3.48E-03 | 5.30E-04 | 2.87E-04 |
| 868 | 257886.1 | 4084691 | 3.22E-03 | 4.90E-04 | 2.65E-04 |
| 869 | 257861.8 | 4084692 | 2.96E-03 | 4.50E-04 | 2.44E-04 |
| 870 | 257837.4 | 4084693 | 2.69E-03 | 4.10E-04 | 2.22E-04 |
| 871 | 257813.1 | 4084694 | 2.44E-03 | 3.72E-04 | 2.01E-04 |
| 872 | 257788.8 | 4084695 | 2.20E-03 | 3.35E-04 | 1.81E-04 |
| 873 | 257764.5 | 4084696 | 1.97E-03 | 3.00E-04 | 1.63E-04 |
| 874 | 257740.1 | 4084697 | 1.77E-03 | 2.69E-04 | 1.46E-04 |
| 875 | 257715.8 | 4084698 | 1.58E-03 | 2.41E-04 | 1.30E-04 |
| 876 | 257691.5 | 4084699 | 1.42E-03 | 2.16E-04 | 1.17E-04 |
| 877 | 257667.1 | 4084700 | 1.28E-03 | 1.95E-04 | 1.06E-04 |
| 878 | 257642.8 | 4084701 | 1.16E-03 | 1.77E-04 | 9.58E-05 |
| 879 | 257618.5 | 4084702 | 1.06E-03 | 1.62E-04 | 8.74E-05 |
| 880 | 257594.1 | 4084703 | 9.75E-04 | 1.48E-04 | 8.03E-05 |
| 881 | 257569.8 | 4084704 | 9.01E-04 | 1.37E-04 | 7.43E-05 |
| 882 | 257545.5 | 4084705 | 8.38E-04 | 1.28E-04 | 6.90E-05 |
| 883 | 258368 | 4084630 | 5.00E-03 | 7.61E-04 | 4.12E-04 |
| 884 | 258389.7 | 4084638 | 5.23E-03 | 7.97E-04 | 4.31E-04 |
| 885 | 258411.4 | 4084646 | 5.46E-03 | 8.31E-04 | 4.50E-04 |
| 886 | 258433.1 | 4084654 | 5.67E-03 | 8.63E-04 | 4.67E-04 |

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| 887 | 258454.8 | 4084662 | 5.86E-03 | 8.93E-04 | 4.83E-04 |
| 888 | 258476.5 | 4084670 | 6.03E-03 | 9.18E-04 | 4.97E-04 |
| 889 | 258498.2 | 4084679 | 6.15E-03 | 9.37E-04 | 5.07E-04 |
| 890 | 258519.9 | 4084687 | 6.23E-03 | 9.50E-04 | 5.14E-04 |
| 891 | 258541.5 | 4084695 | 6.26E-03 | 9.53E-04 | 5.16E-04 |
| 892 | 258572.8 | 4084724 | 6.52E-03 | 9.93E-04 | 5.37E-04 |
| 893 | 258582.3 | 4084745 | 6.76E-03 | 1.03E-03 | 5.57E-04 |
| 894 | 258591.8 | 4084766 | 6.88E-03 | 1.05E-03 | 5.67E-04 |
| 895 | 258601.4 | 4084787 | 6.91E-03 | 1.05E-03 | 5.70E-04 |
| 896 | 258610.9 | 4084808 | 6.82E-03 | 1.04E-03 | 5.62E-04 |
| 897 | 258620.4 | 4084829 | 6.61E-03 | 1.01E-03 | 5.45E-04 |
| 898 | 258630 | 4084850 | 6.29E-03 | 9.58E-04 | 5.18E-04 |
| 899 | 258639.5 | 4084871 | 5.88E-03 | 8.96E-04 | 4.85E-04 |
| 900 | 258649 | 4084892 | 5.42E-03 | 8.26E-04 | 4.47E-04 |
| 901 | 258346.4 | 4084622 | 4.76E-03 | 7.24E-04 | 3.92E-04 |
| 902 | 258322 | 4084623 | 4.71E-03 | 7.17E-04 | 3.88E-04 |
| 903 | 258297.7 | 4084624 | 4.65E-03 | 7.09E-04 | 3.83E-04 |
| 904 | 258273.4 | 4084625 | 4.58E-03 | 6.98E-04 | 3.78E-04 |
| 905 | 258249 | 4084626 | 4.50E-03 | 6.86E-04 | 3.71E-04 |
| 906 | 258224.7 | 4084627 | 4.41E-03 | 6.72E-04 | 3.64E-04 |
| 907 | 258200.4 | 4084628 | 4.31E-03 | 6.57E-04 | 3.55E-04 |
| 908 | 258176 | 4084629 | 4.20E-03 | 6.40E-04 | 3.46E-04 |
| 909 | 258151.7 | 4084630 | 4.08E-03 | 6.21E-04 | 3.36E-04 |
| 910 | 258127.4 | 4084631 | 3.94E-03 | 6.01E-04 | 3.25E-04 |
| 911 | 258103 | 4084632 | 3.80E-03 | 5.79E-04 | 3.13E-04 |
| 912 | 258078.7 | 4084633 | 3.65E-03 | 5.55E-04 | 3.00E-04 |
| 913 | 258054.4 | 4084634 | 3.48E-03 | 5.31E-04 | 2.87E-04 |
| 914 | 258030 | 4084635 | 3.32E-03 | 5.05E-04 | 2.73E-04 |
| 915 | 258005.7 | 4084636 | 3.14E-03 | 4.79E-04 | 2.59E-04 |
| 916 | 257981.4 | 4084637 | 2.96E-03 | 4.51E-04 | 2.44E-04 |
| 917 | 257957.1 | 4084638 | 2.77E-03 | 4.22E-04 | 2.28E-04 |
| 918 | 257932.7 | 4084639 | 2.58E-03 | 3.93E-04 | 2.13E-04 |
| 919 | 257908.4 | 4084640 | 2.39E-03 | 3.64E-04 | 1.97E-04 |
| 920 | 257884.1 | 4084641 | 2.20E-03 | 3.36E-04 | 1.82E-04 |
| 921 | 257859.7 | 4084642 | 2.02E-03 | 3.08E-04 | 1.67E-04 |
| 922 | 257835.4 | 4084643 | 1.85E-03 | 2.81E-04 | 1.52E-04 |
| 923 | 257811.1 | 4084644 | 1.68E-03 | 2.56E-04 | 1.39E-04 |
| 924 | 257786.7 | 4084645 | 1.53E-03 | 2.33E-04 | 1.26E-04 |
| 925 | 257762.4 | 4084646 | 1.39E-03 | 2.11E-04 | 1.14E-04 |
| 926 | 257738.1 | 4084647 | 1.26E-03 | 1.92E-04 | 1.04E-04 |
| 927 | 257713.7 | 4084648 | 1.15E-03 | 1.75E-04 | 9.48E-05 |
| 928 | 257689.4 | 4084649 | 1.05E-03 | 1.60E-04 | 8.67E-05 |
| 929 | 257665.1 | 4084650 | 9.66E-04 | 1.47E-04 | 7.96E-05 |
| 930 | 257640.7 | 4084651 | 8.91E-04 | 1.36E-04 | 7.35E-05 |
| 931 | 257616.4 | 4084652 | 8.27E-04 | 1.26E-04 | 6.81E-05 |
| 932 | 257592.1 | 4084653 | 7.70E-04 | 1.17E-04 | 6.35E-05 |
| 933 | 257567.7 | 4084654 | 7.20E-04 | 1.10E-04 | 5.94E-05 |

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| 934 | 257543.4 | 4084655 | 6.76E-04 | 1.03E-04 | 5.57E-05 |
| 935 | 258364.5 | 4084531 | 3.15E-03 | 4.81E-04 | 2.60E-04 |
| 936 | 258386.7 | 4084539 | 3.33E-03 | 5.07E-04 | 2.74E-04 |
| 937 | 258409 | 4084547 | 3.50E-03 | 5.33E-04 | 2.88E-04 |
| 938 | 258431.2 | 4084555 | 3.66E-03 | 5.58E-04 | 3.02E-04 |
| 939 | 258453.5 | 4084564 | 3.82E-03 | 5.82E-04 | 3.15E-04 |
| 940 | 258475.7 | 4084572 | 3.97E-03 | 6.05E-04 | 3.28E-04 |
| 941 | 258498 | 4084580 | 4.11E-03 | 6.26E-04 | 3.39E-04 |
| 942 | 258520.2 | 4084588 | 4.23E-03 | 6.45E-04 | 3.49E-04 |
| 943 | 258542.4 | 4084597 | 4.33E-03 | 6.60E-04 | 3.57E-04 |
| 944 | 258564.7 | 4084605 | 4.41E-03 | 6.72E-04 | 3.63E-04 |
| 945 | 258586.9 | 4084613 | 4.46E-03 | 6.79E-04 | 3.67E-04 |
| 946 | 258609.2 | 4084621 | 4.47E-03 | 6.81E-04 | 3.68E-04 |
| 947 | 258641.2 | 4084651 | 4.63E-03 | 7.06E-04 | 3.82E-04 |
| 948 | 258651 | 4084673 | 4.79E-03 | 7.29E-04 | 3.95E-04 |
| 949 | 258660.7 | 4084694 | 4.89E-03 | 7.44E-04 | 4.03E-04 |
| 950 | 258670.5 | 4084716 | 4.93E-03 | 7.50E-04 | 4.06E-04 |
| 951 | 258680.3 | 4084738 | 4.91E-03 | 7.48E-04 | 4.05E-04 |
| 952 | 258690.1 | 4084759 | 4.83E-03 | 7.36E-04 | 3.98E-04 |
| 953 | 258699.9 | 4084781 | 4.69E-03 | 7.14E-04 | 3.86E-04 |
| 954 | 258709.6 | 4084802 | 4.48E-03 | 6.83E-04 | 3.70E-04 |
| 955 | 258719.4 | 4084824 | 4.24E-03 | 6.45E-04 | 3.49E-04 |
| 956 | 258729.2 | 4084846 | 3.96E-03 | 6.03E-04 | 3.26E-04 |
| 957 | 258739 | 4084867 | 3.66E-03 | 5.58E-04 | 3.02E-04 |
| 958 | 258748.7 | 4084889 | 3.36E-03 | 5.12E-04 | 2.77E-04 |
| 959 | 258342.3 | 4084522 | 2.98E-03 | 4.54E-04 | 2.46E-04 |
| 960 | 258317.9 | 4084523 | 2.92E-03 | 4.45E-04 | 2.41E-04 |
| 961 | 258293.6 | 4084524 | 2.85E-03 | 4.35E-04 | 2.35E-04 |
| 962 | 258269.3 | 4084525 | 2.78E-03 | 4.24E-04 | 2.29E-04 |
| 963 | 258244.9 | 4084526 | 2.70E-03 | 4.11E-04 | 2.23E-04 |
| 964 | 258220.6 | 4084527 | 2.61E-03 | 3.98E-04 | 2.15E-04 |
| 965 | 258196.3 | 4084528 | 2.52E-03 | 3.84E-04 | 2.08E-04 |
| 966 | 258171.9 | 4084529 | 2.43E-03 | 3.70E-04 | 2.00E-04 |
| 967 | 258147.6 | 4084530 | 2.33E-03 | 3.54E-04 | 1.92E-04 |
| 968 | 258123.3 | 4084531 | 2.22E-03 | 3.38E-04 | 1.83E-04 |
| 969 | 258098.9 | 4084532 | 2.11E-03 | 3.22E-04 | 1.74E-04 |
| 970 | 258074.6 | 4084533 | 2.00E-03 | 3.05E-04 | 1.65E-04 |
| 971 | 258050.3 | 4084534 | 1.89E-03 | 2.89E-04 | 1.56E-04 |
| 972 | 258025.9 | 4084535 | 1.78E-03 | 2.72E-04 | 1.47E-04 |
| 973 | 258001.6 | 4084536 | 1.67E-03 | 2.55E-04 | 1.38E-04 |
| 974 | 257977.3 | 4084537 | 1.56E-03 | 2.38E-04 | 1.29E-04 |
| 975 | 257952.9 | 4084538 | 1.46E-03 | 2.22E-04 | 1.20E-04 |
| 976 | 257928.6 | 4084539 | 1.35E-03 | 2.06E-04 | 1.12E-04 |
| 977 | 257904.3 | 4084540 | 1.26E-03 | 1.91E-04 | 1.04E-04 |
| 978 | 257879.9 | 4084541 | 1.16E-03 | 1.77E-04 | 9.59E-05 |
| 979 | 257855.6 | 4084542 | 1.08E-03 | 1.64E-04 | 8.88E-05 |
| 980 | 257831.3 | 4084543 | 9.98E-04 | 1.52E-04 | 8.23E-05 |

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| 981 | 257807 | 4084544 | 9.26E-04 | 1.41E-04 | 7.63E-05 |
| 982 | 257782.6 | 4084545 | 8.60E-04 | 1.31E-04 | 7.09E-05 |
| 983 | 257758.3 | 4084546 | 8.01E-04 | 1.22E-04 | 6.60E-05 |
| 984 | 257734 | 4084547 | 7.48E-04 | 1.14E-04 | 6.16E-05 |
| 985 | 257709.6 | 4084548 | 7.00E-04 | 1.07E-04 | 5.77E-05 |
| 986 | 257685.3 | 4084549 | 6.57E-04 | 1.00E-04 | 5.42E-05 |
| 987 | 257661 | 4084550 | 6.19E-04 | 9.43E-05 | 5.10E-05 |
| 988 | 257636.6 | 4084551 | 5.85E-04 | 8.91E-05 | 4.82E-05 |
| 989 | 257612.3 | 4084552 | 5.54E-04 | 8.43E-05 | 4.56E-05 |
| 990 | 257588 | 4084553 | 5.25E-04 | 8.01E-05 | 4.33E-05 |
| 991 | 257563.6 | 4084554 | 5.00E-04 | 7.61E-05 | 4.12E-05 |
| 992 | 257539.3 | 4084555 | 4.76E-04 | 7.25E-05 | 3.92E-05 |
| 993 | 258360.7 | 4084431 | 2.05E-03 | 3.12E-04 | 1.69E-04 |
| 994 | 258383.3 | 4084439 | 2.18E-03 | 3.32E-04 | 1.80E-04 |
| 995 | 258405.9 | 4084448 | 2.31E-03 | 3.51E-04 | 1.90E-04 |
| 996 | 258428.5 | 4084456 | 2.44E-03 | 3.71E-04 | 2.01E-04 |
| 997 | 258451.1 | 4084464 | 2.56E-03 | 3.90E-04 | 2.11E-04 |
| 998 | 258473.7 | 4084473 | 2.68E-03 | 4.09E-04 | 2.21E-04 |
| 999 | 258496.3 | 4084481 | 2.80E-03 | 4.27E-04 | 2.31E-04 |
| 1000 | 258518.9 | 4084489 | 2.92E-03 | 4.44E-04 | 2.40E-04 |
| 1001 | 258541.5 | 4084498 | 3.02E-03 | 4.61E-04 | 2.49E-04 |
| 1002 | 258564.1 | 4084506 | 3.12E-03 | 4.75E-04 | 2.57E-04 |
| 1003 | 258586.6 | 4084514 | 3.20E-03 | 4.88E-04 | 2.64E-04 |
| 1004 | 258609.2 | 4084523 | 3.27E-03 | 4.99E-04 | 2.70E-04 |
| 1005 | 258631.8 | 4084531 | 3.32E-03 | 5.06E-04 | 2.74E-04 |
| 1006 | 258654.4 | 4084540 | 3.36E-03 | 5.11E-04 | 2.77E-04 |
| 1007 | 258677 | 4084548 | 3.37E-03 | 5.13E-04 | 2.78E-04 |
| 1008 | 258709.5 | 4084578 | 3.47E-03 | 5.29E-04 | 2.86E-04 |
| 1009 | 258719.5 | 4084600 | 3.58E-03 | 5.45E-04 | 2.95E-04 |
| 1010 | 258729.4 | 4084622 | 3.66E-03 | 5.58E-04 | 3.02E-04 |
| 1011 | 258739.3 | 4084644 | 3.71E-03 | 5.65E-04 | 3.06E-04 |
| 1012 | 258749.2 | 4084666 | 3.72E-03 | 5.67E-04 | 3.07E-04 |
| 1013 | 258759.2 | 4084688 | 3.69E-03 | 5.63E-04 | 3.05E-04 |
| 1014 | 258769.1 | 4084710 | 3.63E-03 | 5.53E-04 | 2.99E-04 |
| 1015 | 258779 | 4084732 | 3.53E-03 | 5.38E-04 | 2.91E-04 |
| 1016 | 258789 | 4084754 | 3.40E-03 | 5.17E-04 | 2.80E-04 |
| 1017 | 258798.9 | 4084776 | 3.23E-03 | 4.93E-04 | 2.67E-04 |
| 1018 | 258808.8 | 4084798 | 3.05E-03 | 4.65E-04 | 2.52E-04 |
| 1019 | 258818.8 | 4084820 | 2.86E-03 | 4.35E-04 | 2.36E-04 |
| 1020 | 258828.7 | 4084842 | 2.66E-03 | 4.05E-04 | 2.19E-04 |
| 1021 | 258838.6 | 4084864 | 2.46E-03 | 3.75E-04 | 2.03E-04 |
| 1022 | 258848.5 | 4084886 | 2.27E-03 | 3.46E-04 | 1.87E-04 |
| 1023 | 258338.1 | 4084422 | 1.92E-03 | 2.93E-04 | 1.58E-04 |
| 1024 | 258313.8 | 4084423 | 1.86E-03 | 2.84E-04 | 1.54E-04 |
| 1025 | 258289.5 | 4084424 | 1.80E-03 | 2.75E-04 | 1.49E-04 |
| 1026 | 258265.2 | 4084425 | 1.74E-03 | 2.65E-04 | 1.43E-04 |
| 1027 | 258240.8 | 4084426 | 1.67E-03 | 2.55E-04 | 1.38E-04 |

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| 1028 | 258216.5 | 4084427 | 1.61E-03 | 2.45E-04 | 1.32E-04 |
| 1029 | 258192.2 | 4084428 | 1.53E-03 | 2.34E-04 | 1.27E-04 |
| 1030 | 258167.8 | 4084429 | 1.46E-03 | 2.23E-04 | 1.21E-04 |
| 1031 | 258143.5 | 4084430 | 1.39E-03 | 2.12E-04 | 1.15E-04 |
| 1032 | 258119.2 | 4084431 | 1.32E-03 | 2.01E-04 | 1.09E-04 |
| 1033 | 258094.8 | 4084432 | 1.25E-03 | 1.90E-04 | 1.03E-04 |
| 1034 | 258070.5 | 4084433 | 1.18E-03 | 1.79E-04 | 9.70E-05 |
| 1035 | 258046.2 | 4084434 | 1.11E-03 | 1.69E-04 | 9.14E-05 |
| 1036 | 258021.8 | 4084435 | 1.04E-03 | 1.59E-04 | 8.59E-05 |
| 1037 | 257997.5 | 4084436 | 9.79E-04 | 1.49E-04 | 8.07E-05 |
| 1038 | 257973.2 | 4084437 | 9.19E-04 | 1.40E-04 | 7.57E-05 |
| 1039 | 257948.8 | 4084438 | 8.62E-04 | 1.31E-04 | 7.10E-05 |
| 1040 | 257924.5 | 4084439 | 8.08E-04 | 1.23E-04 | 6.66E-05 |
| 1041 | 257900.2 | 4084440 | 7.58E-04 | 1.15E-04 | 6.25E-05 |
| 1042 | 257875.8 | 4084441 | 7.11E-04 | 1.08E-04 | 5.86E-05 |
| 1043 | 257851.5 | 4084442 | 6.68E-04 | 1.02E-04 | 5.51E-05 |
| 1044 | 257827.2 | 4084443 | 6.28E-04 | 9.57E-05 | 5.18E-05 |
| 1045 | 257802.8 | 4084444 | 5.91E-04 | 9.01E-05 | 4.87E-05 |
| 1046 | 257778.5 | 4084445 | 5.58E-04 | 8.50E-05 | 4.60E-05 |
| 1047 | 257754.2 | 4084446 | 5.28E-04 | 8.04E-05 | 4.35E-05 |
| 1048 | 257729.9 | 4084447 | 5.01E-04 | 7.63E-05 | 4.13E-05 |
| 1049 | 257705.5 | 4084448 | 4.76E-04 | 7.25E-05 | 3.92E-05 |
| 1050 | 257681.2 | 4084449 | 4.54E-04 | 6.92E-05 | 3.74E-05 |
| 1051 | 257656.9 | 4084450 | 4.34E-04 | 6.61E-05 | 3.58E-05 |
| 1052 | 257632.5 | 4084451 | 4.16E-04 | 6.34E-05 | 3.43E-05 |
| 1053 | 257608.2 | 4084452 | 4.00E-04 | 6.09E-05 | 3.29E-05 |
| 1054 | 257583.9 | 4084453 | 3.84E-04 | 5.86E-05 | 3.17E-05 |
| 1055 | 257559.5 | 4084454 | 3.70E-04 | 5.64E-05 | 3.05E-05 |
| 1056 | 257535.2 | 4084455 | 3.57E-04 | 5.44E-05 | 2.94E-05 |
| 1057 | 258356.9 | 4084331 | 1.36E-03 | 2.07E-04 | 1.12E-04 |
| 1058 | 258379.7 | 4084339 | 1.45E-03 | 2.21E-04 | 1.20E-04 |
| 1059 | 258402.5 | 4084348 | 1.55E-03 | 2.36E-04 | 1.28E-04 |
| 1060 | 258425.4 | 4084356 | 1.65E-03 | 2.51E-04 | 1.36E-04 |
| 1061 | 258448.2 | 4084365 | 1.74E-03 | 2.66E-04 | 1.44E-04 |
| 1062 | 258471 | 4084373 | 1.84E-03 | 2.81E-04 | 1.52E-04 |
| 1063 | 258493.8 | 4084382 | 1.94E-03 | 2.95E-04 | 1.60E-04 |
| 1064 | 258516.7 | 4084390 | 2.03E-03 | 3.10E-04 | 1.68E-04 |
| 1065 | 258539.5 | 4084399 | 2.13E-03 | 3.24E-04 | 1.75E-04 |
| 1066 | 258562.3 | 4084407 | 2.22E-03 | 3.38E-04 | 1.83E-04 |
| 1067 | 258585.2 | 4084416 | 2.30E-03 | 3.50E-04 | 1.90E-04 |
| 1068 | 258608 | 4084424 | 2.38E-03 | 3.62E-04 | 1.96E-04 |
| 1069 | 258630.8 | 4084432 | 2.45E-03 | 3.73E-04 | 2.02E-04 |
| 1070 | 258653.6 | 4084441 | 2.51E-03 | 3.82E-04 | 2.07E-04 |
| 1071 | 258676.5 | 4084449 | 2.56E-03 | 3.90E-04 | 2.11E-04 |
| 1072 | 258699.3 | 4084458 | 2.60E-03 | 3.96E-04 | 2.14E-04 |
| 1073 | 258722.1 | 4084466 | 2.62E-03 | 3.99E-04 | 2.16E-04 |
| 1074 | 258745 | 4084475 | 2.63E-03 | 4.01E-04 | 2.17E-04 |

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| 1075 | 258777.8 | 4084505 | 2.72E-03 | 4.14E-04 | 2.24E-04 |
| 1076 | 258787.9 | 4084528 | 2.80E-03 | 4.26E-04 | 2.31E-04 |
| 1077 | 258797.9 | 4084550 | 2.86E-03 | 4.36E-04 | 2.36E-04 |
| 1078 | 258807.9 | 4084572 | 2.90E-03 | 4.42E-04 | 2.39E-04 |
| 1079 | 258818 | 4084594 | 2.92E-03 | 4.45E-04 | 2.41E-04 |
| 1080 | 258828 | 4084616 | 2.92E-03 | 4.45E-04 | 2.41E-04 |
| 1081 | 258838 | 4084638 | 2.90E-03 | 4.41E-04 | 2.39E-04 |
| 1082 | 258848.1 | 4084661 | 2.85E-03 | 4.34E-04 | 2.35E-04 |
| 1083 | 258858.1 | 4084683 | 2.77E-03 | 4.22E-04 | 2.29E-04 |
| 1084 | 258868.1 | 4084705 | 2.68E-03 | 4.08E-04 | 2.21E-04 |
| 1085 | 258878.2 | 4084727 | 2.57E-03 | 3.92E-04 | 2.12E-04 |
| 1086 | 258888.2 | 4084749 | 2.45E-03 | 3.73E-04 | 2.02E-04 |
| 1087 | 258898.2 | 4084771 | 2.31E-03 | 3.52E-04 | 1.91E-04 |
| 1088 | 258908.3 | 4084794 | 2.17E-03 | 3.31E-04 | 1.79E-04 |
| 1089 | 258918.3 | 4084816 | 2.04E-03 | 3.10E-04 | 1.68E-04 |
| 1090 | 258928.3 | 4084838 | 1.90E-03 | 2.89E-04 | 1.57E-04 |
| 1091 | 258938.4 | 4084860 | 1.77E-03 | 2.69E-04 | 1.46E-04 |
| 1092 | 258948.4 | 4084882 | 1.64E-03 | 2.50E-04 | 1.35E-04 |
| 1093 | 258334 | 4084323 | 1.27E-03 | 1.93E-04 | 1.04E-04 |
| 1094 | 258309.7 | 4084324 | 1.22E-03 | 1.86E-04 | 1.01E-04 |
| 1095 | 258285.4 | 4084325 | 1.17E-03 | 1.79E-04 | 9.67E-05 |
| 1096 | 258261 | 4084326 | 1.13E-03 | 1.71E-04 | 9.27E-05 |
| 1097 | 258236.7 | 4084327 | 1.08E-03 | 1.64E-04 | 8.87E-05 |
| 1098 | 258212.4 | 4084328 | 1.03E-03 | 1.56E-04 | 8.46E-05 |
| 1099 | 258188 | 4084329 | 9.77E-04 | 1.49E-04 | 8.06E-05 |
| 1100 | 258163.7 | 4084330 | 9.29E-04 | 1.41E-04 | 7.66E-05 |
| 1101 | 258139.4 | 4084331 | 8.81E-04 | 1.34E-04 | 7.26E-05 |
| 1102 | 258115.1 | 4084332 | 8.34E-04 | 1.27E-04 | 6.87E-05 |
| 1103 | 258090.7 | 4084333 | 7.89E-04 | 1.20E-04 | 6.50E-05 |
| 1104 | 258066.4 | 4084334 | 7.46E-04 | 1.14E-04 | 6.15E-05 |
| 1105 | 258042.1 | 4084335 | 7.05E-04 | 1.07E-04 | 5.81E-05 |
| 1106 | 258017.7 | 4084336 | 6.66E-04 | 1.02E-04 | 5.49E-05 |
| 1107 | 257993.4 | 4084337 | 6.30E-04 | 9.60E-05 | 5.19E-05 |
| 1108 | 257969.1 | 4084338 | 5.96E-04 | 9.09E-05 | 4.92E-05 |
| 1109 | 257944.7 | 4084339 | 5.65E-04 | 8.61E-05 | 4.66E-05 |
| 1110 | 257920.4 | 4084340 | 5.36E-04 | 8.16E-05 | 4.41E-05 |
| 1111 | 257896.1 | 4084341 | 5.08E-04 | 7.74E-05 | 4.19E-05 |
| 1112 | 257871.7 | 4084342 | 4.83E-04 | 7.36E-05 | 3.98E-05 |
| 1113 | 257847.4 | 4084343 | 4.59E-04 | 7.00E-05 | 3.79E-05 |
| 1114 | 257823.1 | 4084344 | 4.37E-04 | 6.66E-05 | 3.60E-05 |
| 1115 | 257798.7 | 4084345 | 4.17E-04 | 6.35E-05 | 3.44E-05 |
| 1116 | 257774.4 | 4084346 | 3.98E-04 | 6.06E-05 | 3.28E-05 |
| 1117 | 257750.1 | 4084347 | 3.81E-04 | 5.80E-05 | 3.14E-05 |
| 1118 | 257725.7 | 4084348 | 3.65E-04 | 5.56E-05 | 3.01E-05 |
| 1119 | 257701.4 | 4084349 | 3.50E-04 | 5.33E-05 | 2.89E-05 |
| 1120 | 257677.1 | 4084350 | 3.37E-04 | 5.13E-05 | 2.78E-05 |
| 1121 | 257652.7 | 4084351 | 3.25E-04 | 4.94E-05 | 2.68E-05 |

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| 1122 | 257628.4 | 4084352 | 3.13E-04 | 4.77E-05 | 2.58E-05 |
| 1123 | 257604.1 | 4084353 | 3.03E-04 | 4.62E-05 | 2.50E-05 |
| 1124 | 257579.8 | 4084354 | 2.94E-04 | 4.47E-05 | 2.42E-05 |
| 1125 | 257555.4 | 4084355 | 2.85E-04 | 4.34E-05 | 2.35E-05 |
| 1126 | 257531.1 | 4084356 | 2.77E-04 | 4.21E-05 | 2.28E-05 |
| 1127 | 258351.9 | 4084231 | 9.21E-04 | 1.40E-04 | 7.59E-05 |
| 1128 | 258373.9 | 4084239 | 9.85E-04 | 1.50E-04 | 8.12E-05 |
| 1129 | 258395.9 | 4084247 | 1.05E-03 | 1.60E-04 | 8.66E-05 |
| 1130 | 258417.9 | 4084255 | 1.12E-03 | 1.71E-04 | 9.23E-05 |
| 1131 | 258439.9 | 4084263 | 1.19E-03 | 1.81E-04 | 9.81E-05 |
| 1132 | 258461.9 | 4084272 | 1.26E-03 | 1.92E-04 | 1.04E-04 |
| 1133 | 258483.9 | 4084280 | 1.33E-03 | 2.03E-04 | 1.10E-04 |
| 1134 | 258505.9 | 4084288 | 1.41E-03 | 2.14E-04 | 1.16E-04 |
| 1135 | 258527.9 | 4084296 | 1.48E-03 | 2.25E-04 | 1.22E-04 |
| 1136 | 258549.9 | 4084304 | 1.55E-03 | 2.36E-04 | 1.28E-04 |
| 1137 | 258571.9 | 4084312 | 1.62E-03 | 2.47E-04 | 1.34E-04 |
| 1138 | 258594 | 4084320 | 1.69E-03 | 2.58E-04 | 1.39E-04 |
| 1139 | 258616 | 4084329 | 1.76E-03 | 2.68E-04 | 1.45E-04 |
| 1140 | 258638 | 4084337 | 1.82E-03 | 2.77E-04 | 1.50E-04 |
| 1141 | 258660 | 4084345 | 1.88E-03 | 2.87E-04 | 1.55E-04 |
| 1142 | 258682 | 4084353 | 1.94E-03 | 2.95E-04 | 1.60E-04 |
| 1143 | 258704 | 4084361 | 1.99E-03 | 3.03E-04 | 1.64E-04 |
| 1144 | 258726 | 4084369 | 2.03E-03 | 3.09E-04 | 1.67E-04 |
| 1145 | 258748 | 4084377 | 2.07E-03 | 3.15E-04 | 1.70E-04 |
| 1146 | 258770 | 4084386 | 2.10E-03 | 3.19E-04 | 1.73E-04 |
| 1147 | 258792 | 4084394 | 2.12E-03 | 3.22E-04 | 1.74E-04 |
| 1148 | 258814 | 4084402 | 2.12E-03 | 3.23E-04 | 1.75E-04 |
| 1149 | 258845.6 | 4084431 | 2.19E-03 | 3.34E-04 | 1.81E-04 |
| 1150 | 258855.3 | 4084453 | 2.25E-03 | 3.43E-04 | 1.85E-04 |
| 1151 | 258865 | 4084474 | 2.30E-03 | 3.50E-04 | 1.90E-04 |
| 1152 | 258874.6 | 4084496 | 2.34E-03 | 3.56E-04 | 1.93E-04 |
| 1153 | 258884.3 | 4084517 | 2.36E-03 | 3.60E-04 | 1.95E-04 |
| 1154 | 258894 | 4084538 | 2.37E-03 | 3.61E-04 | 1.95E-04 |
| 1155 | 258903.7 | 4084560 | 2.37E-03 | 3.61E-04 | 1.95E-04 |
| 1156 | 258913.3 | 4084581 | 2.35E-03 | 3.58E-04 | 1.94E-04 |
| 1157 | 258923 | 4084602 | 2.32E-03 | 3.53E-04 | 1.91E-04 |
| 1158 | 258932.7 | 4084624 | 2.27E-03 | 3.46E-04 | 1.87E-04 |
| 1159 | 258942.3 | 4084645 | 2.22E-03 | 3.38E-04 | 1.83E-04 |
| 1160 | 258952 | 4084667 | 2.15E-03 | 3.27E-04 | 1.77E-04 |
| 1161 | 258961.7 | 4084688 | 2.07E-03 | 3.15E-04 | 1.70E-04 |
| 1162 | 258971.4 | 4084709 | 1.98E-03 | 3.02E-04 | 1.63E-04 |
| 1163 | 258981 | 4084731 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 1164 | 258990.7 | 4084752 | 1.79E-03 | 2.73E-04 | 1.48E-04 |
| 1165 | 259000.4 | 4084773 | 1.70E-03 | 2.58E-04 | 1.40E-04 |
| 1166 | 259010 | 4084795 | 1.60E-03 | 2.44E-04 | 1.32E-04 |
| 1167 | 259019.7 | 4084816 | 1.51E-03 | 2.30E-04 | 1.24E-04 |
| 1168 | 259029.4 | 4084838 | 1.42E-03 | 2.16E-04 | 1.17E-04 |

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| 1169 | 259039 | 4084859 | 1.33E-03 | 2.03E-04 | 1.10E-04 |
| 1170 | 259048.7 | 4084880 | 1.25E-03 | 1.90E-04 | 1.03E-04 |
| 1171 | 258329.9 | 4084223 | 8.60E-04 | 1.31E-04 | 7.09E-05 |
| 1172 | 258305.6 | 4084224 | 8.25E-04 | 1.26E-04 | 6.80E-05 |
| 1173 | 258281.3 | 4084225 | 7.91E-04 | 1.20E-04 | 6.52E-05 |
| 1174 | 258256.9 | 4084226 | 7.57E-04 | 1.15E-04 | 6.24E-05 |
| 1175 | 258232.6 | 4084227 | 7.23E-04 | 1.10E-04 | 5.96E-05 |
| 1176 | 258208.3 | 4084228 | 6.90E-04 | 1.05E-04 | 5.68E-05 |
| 1177 | 258183.9 | 4084229 | 6.57E-04 | 1.00E-04 | 5.41E-05 |
| 1178 | 258159.6 | 4084230 | 6.25E-04 | 9.52E-05 | 5.15E-05 |
| 1179 | 258135.3 | 4084231 | 5.94E-04 | 9.05E-05 | 4.90E-05 |
| 1180 | 258110.9 | 4084232 | 5.65E-04 | 8.60E-05 | 4.65E-05 |
| 1181 | 258086.6 | 4084233 | 5.37E-04 | 8.18E-05 | 4.42E-05 |
| 1182 | 258062.3 | 4084234 | 5.10E-04 | 7.77E-05 | 4.21E-05 |
| 1183 | 258037.9 | 4084235 | 4.85E-04 | 7.39E-05 | 4.00E-05 |
| 1184 | 258013.6 | 4084236 | 4.62E-04 | 7.04E-05 | 3.81E-05 |
| 1185 | 257989.3 | 4084237 | 4.40E-04 | 6.70E-05 | 3.63E-05 |
| 1186 | 257965 | 4084238 | 4.20E-04 | 6.40E-05 | 3.46E-05 |
| 1187 | 257940.6 | 4084239 | 4.01E-04 | 6.11E-05 | 3.30E-05 |
| 1188 | 257916.3 | 4084240 | 3.83E-04 | 5.84E-05 | 3.16E-05 |
| 1189 | 257892 | 4084241 | 3.67E-04 | 5.59E-05 | 3.02E-05 |
| 1190 | 257867.6 | 4084242 | 3.52E-04 | 5.36E-05 | 2.90E-05 |
| 1191 | 257843.3 | 4084243 | 3.38E-04 | 5.15E-05 | 2.78E-05 |
| 1192 | 257819 | 4084244 | 3.25E-04 | 4.95E-05 | 2.68E-05 |
| 1193 | 257794.6 | 4084245 | 3.13E-04 | 4.77E-05 | 2.58E-05 |
| 1194 | 257770.3 | 4084246 | 3.02E-04 | 4.60E-05 | 2.49E-05 |
| 1195 | 257746 | 4084247 | 2.92E-04 | 4.44E-05 | 2.40E-05 |
| 1196 | 257721.6 | 4084248 | 2.82E-04 | 4.29E-05 | 2.32E-05 |
| 1197 | 257697.3 | 4084249 | 2.73E-04 | 4.15E-05 | 2.25E-05 |
| 1198 | 257673 | 4084250 | 2.64E-04 | 4.03E-05 | 2.18E-05 |
| 1199 | 257648.6 | 4084251 | 2.56E-04 | 3.90E-05 | 2.11E-05 |
| 1200 | 257624.3 | 4084252 | 2.49E-04 | 3.79E-05 | 2.05E-05 |
| 1201 | 257600 | 4084253 | 2.41E-04 | 3.68E-05 | 1.99E-05 |
| 1202 | 257575.6 | 4084254 | 2.34E-04 | 3.57E-05 | 1.93E-05 |
| 1203 | 257551.3 | 4084255 | 2.28E-04 | 3.47E-05 | 1.88E-05 |
| 1204 | 257527 | 4084256 | 2.22E-04 | 3.38E-05 | 1.83E-05 |
| 1205 | 258344.2 | 4084031 | 4.70E-04 | 7.17E-05 | 3.88E-05 |
| 1206 | 258366.6 | 4084039 | 5.01E-04 | 7.63E-05 | 4.13E-05 |
| 1207 | 258389 | 4084048 | 5.34E-04 | 8.13E-05 | 4.40E-05 |
| 1208 | 258411.5 | 4084056 | 5.69E-04 | 8.66E-05 | 4.69E-05 |
| 1209 | 258433.9 | 4084064 | 6.05E-04 | 9.22E-05 | 4.99E-05 |
| 1210 | 258456.3 | 4084073 | 6.44E-04 | 9.82E-05 | 5.31E-05 |
| 1211 | 258478.8 | 4084081 | 6.85E-04 | 1.04E-04 | 5.65E-05 |
| 1212 | 258501.2 | 4084089 | 7.27E-04 | 1.11E-04 | 5.99E-05 |
| 1213 | 258523.6 | 4084098 | 7.71E-04 | 1.17E-04 | 6.35E-05 |
| 1214 | 258546.1 | 4084106 | 8.16E-04 | 1.24E-04 | 6.72E-05 |
| 1215 | 258568.5 | 4084114 | 8.62E-04 | 1.31E-04 | 7.10E-05 |

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| 1216 | 258590.9 | 4084123 | 9.08E-04 | 1.38E-04 | 7.49E-05 |
| 1217 | 258613.4 | 4084131 | 9.55E-04 | 1.45E-04 | 7.87E-05 |
| 1218 | 258635.8 | 4084139 | 1.00E-03 | 1.53E-04 | 8.26E-05 |
| 1219 | 258658.2 | 4084147 | 1.05E-03 | 1.60E-04 | 8.64E-05 |
| 1220 | 258680.7 | 4084156 | 1.09E-03 | 1.67E-04 | 9.02E-05 |
| 1221 | 258703.1 | 4084164 | 1.14E-03 | 1.74E-04 | 9.40E-05 |
| 1222 | 258725.5 | 4084172 | 1.18E-03 | 1.80E-04 | 9.76E-05 |
| 1223 | 258748 | 4084181 | 1.23E-03 | 1.87E-04 | 1.01E-04 |
| 1224 | 258770.4 | 4084189 | 1.27E-03 | 1.93E-04 | 1.04E-04 |
| 1225 | 258792.9 | 4084197 | 1.31E-03 | 1.99E-04 | 1.08E-04 |
| 1226 | 258815.3 | 4084206 | 1.34E-03 | 2.04E-04 | 1.11E-04 |
| 1227 | 258837.7 | 4084214 | 1.37E-03 | 2.09E-04 | 1.13E-04 |
| 1228 | 258860.2 | 4084222 | 1.40E-03 | 2.14E-04 | 1.16E-04 |
| 1229 | 258882.6 | 4084230 | 1.43E-03 | 2.17E-04 | 1.18E-04 |
| 1230 | 258905 | 4084239 | 1.45E-03 | 2.21E-04 | 1.19E-04 |
| 1231 | 258927.5 | 4084247 | 1.46E-03 | 2.23E-04 | 1.21E-04 |
| 1232 | 258949.9 | 4084255 | 1.47E-03 | 2.24E-04 | 1.21E-04 |
| 1233 | 258982.2 | 4084286 | 1.52E-03 | 2.32E-04 | 1.26E-04 |
| 1234 | 258992.1 | 4084307 | 1.56E-03 | 2.38E-04 | 1.29E-04 |
| 1235 | 259001.9 | 4084329 | 1.60E-03 | 2.43E-04 | 1.32E-04 |
| 1236 | 259011.8 | 4084351 | 1.63E-03 | 2.48E-04 | 1.34E-04 |
| 1237 | 259021.6 | 4084373 | 1.65E-03 | 2.51E-04 | 1.36E-04 |
| 1238 | 259031.5 | 4084394 | 1.66E-03 | 2.53E-04 | 1.37E-04 |
| 1239 | 259041.4 | 4084416 | 1.67E-03 | 2.54E-04 | 1.38E-04 |
| 1240 | 259051.2 | 4084438 | 1.67E-03 | 2.54E-04 | 1.38E-04 |
| 1241 | 259061.1 | 4084460 | 1.66E-03 | 2.53E-04 | 1.37E-04 |
| 1242 | 259070.9 | 4084482 | 1.65E-03 | 2.51E-04 | 1.36E-04 |
| 1243 | 259080.8 | 4084503 | 1.63E-03 | 2.48E-04 | 1.34E-04 |
| 1244 | 259090.7 | 4084525 | 1.60E-03 | 2.43E-04 | 1.32E-04 |
| 1245 | 259100.5 | 4084547 | 1.56E-03 | 2.38E-04 | 1.29E-04 |
| 1246 | 259110.4 | 4084569 | 1.52E-03 | 2.32E-04 | 1.26E-04 |
| 1247 | 259120.2 | 4084591 | 1.48E-03 | 2.26E-04 | 1.22E-04 |
| 1248 | 259130.1 | 4084612 | 1.43E-03 | 2.18E-04 | 1.18E-04 |
| 1249 | 259140 | 4084634 | 1.38E-03 | 2.11E-04 | 1.14E-04 |
| 1250 | 259149.8 | 4084656 | 1.33E-03 | 2.03E-04 | 1.10E-04 |
| 1251 | 259159.7 | 4084678 | 1.28E-03 | 1.95E-04 | 1.05E-04 |
| 1252 | 259169.6 | 4084700 | 1.22E-03 | 1.87E-04 | 1.01E-04 |
| 1253 | 259179.4 | 4084721 | 1.17E-03 | 1.78E-04 | 9.62E-05 |
| 1254 | 259189.3 | 4084743 | 1.11E-03 | 1.69E-04 | 9.16E-05 |
| 1255 | 259199.1 | 4084765 | 1.06E-03 | 1.61E-04 | 8.71E-05 |
| 1256 | 259209 | 4084787 | 1.00E-03 | 1.53E-04 | 8.25E-05 |
| 1257 | 259218.9 | 4084809 | 9.51E-04 | 1.45E-04 | 7.84E-05 |
| 1258 | 259228.7 | 4084830 | 9.03E-04 | 1.38E-04 | 7.44E-05 |
| 1259 | 259238.6 | 4084852 | 8.59E-04 | 1.31E-04 | 7.08E-05 |
| 1260 | 259248.4 | 4084874 | 8.16E-04 | 1.24E-04 | 6.73E-05 |
| 1261 | 258321.7 | 4084023 | 4.42E-04 | 6.73E-05 | 3.64E-05 |
| 1262 | 258297.4 | 4084024 | 4.25E-04 | 6.48E-05 | 3.50E-05 |

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| 1263 | 258273.1 | 4084025 | 4.09E-04 | 6.23E-05 | 3.37E-05 |
| 1264 | 258248.7 | 4084026 | 3.94E-04 | 6.00E-05 | 3.24E-05 |
| 1265 | 258224.4 | 4084027 | 3.79E-04 | 5.77E-05 | 3.12E-05 |
| 1266 | 258200.1 | 4084028 | 3.64E-04 | 5.55E-05 | 3.00E-05 |
| 1267 | 258175.7 | 4084029 | 3.50E-04 | 5.33E-05 | 2.89E-05 |
| 1268 | 258151.4 | 4084030 | 3.37E-04 | 5.13E-05 | 2.77E-05 |
| 1269 | 258127.1 | 4084031 | 3.23E-04 | 4.93E-05 | 2.67E-05 |
| 1270 | 258102.7 | 4084032 | 3.11E-04 | 4.74E-05 | 2.56E-05 |
| 1271 | 258078.4 | 4084033 | 2.99E-04 | 4.55E-05 | 2.46E-05 |
| 1272 | 258054.1 | 4084034 | 2.87E-04 | 4.37E-05 | 2.37E-05 |
| 1273 | 258029.7 | 4084035 | 2.76E-04 | 4.20E-05 | 2.27E-05 |
| 1274 | 258005.4 | 4084036 | 2.65E-04 | 4.04E-05 | 2.19E-05 |
| 1275 | 257981.1 | 4084037 | 2.56E-04 | 3.89E-05 | 2.11E-05 |
| 1276 | 257956.7 | 4084038 | 2.46E-04 | 3.75E-05 | 2.03E-05 |
| 1277 | 257932.4 | 4084039 | 2.38E-04 | 3.62E-05 | 1.96E-05 |
| 1278 | 257908.1 | 4084040 | 2.30E-04 | 3.50E-05 | 1.89E-05 |
| 1279 | 257883.7 | 4084041 | 2.23E-04 | 3.39E-05 | 1.83E-05 |
| 1280 | 257859.4 | 4084042 | 2.16E-04 | 3.29E-05 | 1.78E-05 |
| 1281 | 257835.1 | 4084043 | 2.10E-04 | 3.20E-05 | 1.73E-05 |
| 1282 | 257810.7 | 4084044 | 2.04E-04 | 3.11E-05 | 1.68E-05 |
| 1283 | 257786.4 | 4084045 | 1.99E-04 | 3.03E-05 | 1.64E-05 |
| 1284 | 257762.1 | 4084046 | 1.95E-04 | 2.96E-05 | 1.60E-05 |
| 1285 | 257737.8 | 4084047 | 1.90E-04 | 2.90E-05 | 1.57E-05 |
| 1286 | 257713.4 | 4084048 | 1.86E-04 | 2.84E-05 | 1.54E-05 |
| 1287 | 257689.1 | 4084049 | 1.83E-04 | 2.79E-05 | 1.51E-05 |
| 1288 | 257664.8 | 4084050 | 1.79E-04 | 2.73E-05 | 1.48E-05 |
| 1289 | 257640.4 | 4084051 | 1.76E-04 | 2.68E-05 | 1.45E-05 |
| 1290 | 257616.1 | 4084052 | 1.72E-04 | 2.63E-05 | 1.42E-05 |
| 1291 | 257591.8 | 4084053 | 1.69E-04 | 2.58E-05 | 1.39E-05 |
| 1292 | 257567.4 | 4084054 | 1.66E-04 | 2.52E-05 | 1.36E-05 |
| 1293 | 257543.1 | 4084055 | 1.62E-04 | 2.47E-05 | 1.34E-05 |
| 1294 | 257518.8 | 4084056 | 1.58E-04 | 2.41E-05 | 1.31E-05 |
| 1295 | 258336.2 | 4083831 | 2.80E-04 | 4.26E-05 | 2.30E-05 |
| 1296 | 258358.9 | 4083840 | 2.94E-04 | 4.48E-05 | 2.42E-05 |
| 1297 | 258381.7 | 4083848 | 3.10E-04 | 4.72E-05 | 2.55E-05 |
| 1298 | 258404.4 | 4083857 | 3.27E-04 | 4.98E-05 | 2.69E-05 |
| 1299 | 258427.1 | 4083865 | 3.45E-04 | 5.26E-05 | 2.85E-05 |
| 1300 | 258449.8 | 4083873 | 3.65E-04 | 5.56E-05 | 3.01E-05 |
| 1301 | 258472.5 | 4083882 | 3.86E-04 | 5.89E-05 | 3.19E-05 |
| 1302 | 258495.3 | 4083890 | 4.09E-04 | 6.23E-05 | 3.37E-05 |
| 1303 | 258518 | 4083899 | 4.33E-04 | 6.59E-05 | 3.57E-05 |
| 1304 | 258540.7 | 4083907 | 4.58E-04 | 6.98E-05 | 3.77E-05 |
| 1305 | 258563.4 | 4083916 | 4.84E-04 | 7.38E-05 | 3.99E-05 |
| 1306 | 258586.1 | 4083924 | 5.12E-04 | 7.80E-05 | 4.22E-05 |
| 1307 | 258608.9 | 4083932 | 5.40E-04 | 8.23E-05 | 4.45E-05 |
| 1308 | 258631.6 | 4083941 | 5.70E-04 | 8.68E-05 | 4.70E-05 |
| 1309 | 258654.3 | 4083949 | 6.00E-04 | 9.14E-05 | 4.94E-05 |

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| 1310 | 258677 | 4083958 | 6.31E-04 | 9.61E-05 | 5.20E-05 |
| 1311 | 258699.7 | 4083966 | 6.62E-04 | 1.01E-04 | 5.46E-05 |
| 1312 | 258722.5 | 4083974 | 6.94E-04 | 1.06E-04 | 5.72E-05 |
| 1313 | 258745.2 | 4083983 | 7.26E-04 | 1.11E-04 | 5.99E-05 |
| 1314 | 258767.9 | 4083991 | 7.58E-04 | 1.16E-04 | 6.25E-05 |
| 1315 | 258790.6 | 4084000 | 7.90E-04 | 1.20E-04 | 6.51E-05 |
| 1316 | 258813.3 | 4084008 | 8.22E-04 | 1.25E-04 | 6.77E-05 |
| 1317 | 258836.1 | 4084016 | 8.53E-04 | 1.30E-04 | 7.03E-05 |
| 1318 | 258858.8 | 4084025 | 8.83E-04 | 1.34E-04 | 7.28E-05 |
| 1319 | 258881.5 | 4084033 | 9.12E-04 | 1.39E-04 | 7.52E-05 |
| 1320 | 258904.2 | 4084042 | 9.40E-04 | 1.43E-04 | 7.75E-05 |
| 1321 | 258926.9 | 4084050 | 9.66E-04 | 1.47E-04 | 7.96E-05 |
| 1322 | 258949.7 | 4084059 | 9.88E-04 | 1.51E-04 | 8.15E-05 |
| 1323 | 258972.4 | 4084067 | 1.01E-03 | 1.54E-04 | 8.33E-05 |
| 1324 | 258995.1 | 4084075 | 1.03E-03 | 1.57E-04 | 8.49E-05 |
| 1325 | 259017.8 | 4084084 | 1.05E-03 | 1.60E-04 | 8.64E-05 |
| 1326 | 259040.5 | 4084092 | 1.06E-03 | 1.62E-04 | 8.77E-05 |
| 1327 | 259063.3 | 4084101 | 1.08E-03 | 1.64E-04 | 8.87E-05 |
| 1328 | 259086 | 4084109 | 1.09E-03 | 1.65E-04 | 8.95E-05 |
| 1329 | 259118.7 | 4084139 | 1.12E-03 | 1.71E-04 | 9.26E-05 |
| 1330 | 259128.7 | 4084162 | 1.15E-03 | 1.76E-04 | 9.51E-05 |
| 1331 | 259138.7 | 4084184 | 1.18E-03 | 1.80E-04 | 9.72E-05 |
| 1332 | 259148.6 | 4084206 | 1.20E-03 | 1.83E-04 | 9.91E-05 |
| 1333 | 259158.6 | 4084228 | 1.22E-03 | 1.86E-04 | 1.01E-04 |
| 1334 | 259168.6 | 4084250 | 1.24E-03 | 1.88E-04 | 1.02E-04 |
| 1335 | 259178.6 | 4084272 | 1.25E-03 | 1.90E-04 | 1.03E-04 |
| 1336 | 259188.6 | 4084294 | 1.25E-03 | 1.91E-04 | 1.03E-04 |
| 1337 | 259198.6 | 4084316 | 1.26E-03 | 1.91E-04 | 1.03E-04 |
| 1338 | 259208.6 | 4084338 | 1.25E-03 | 1.91E-04 | 1.03E-04 |
| 1339 | 259218.5 | 4084360 | 1.25E-03 | 1.90E-04 | 1.03E-04 |
| 1340 | 259228.5 | 4084382 | 1.23E-03 | 1.88E-04 | 1.02E-04 |
| 1341 | 259238.5 | 4084404 | 1.22E-03 | 1.86E-04 | 1.00E-04 |
| 1342 | 259248.5 | 4084426 | 1.20E-03 | 1.83E-04 | 9.92E-05 |
| 1343 | 259258.5 | 4084449 | 1.18E-03 | 1.80E-04 | 9.74E-05 |
| 1344 | 259268.5 | 4084471 | 1.16E-03 | 1.76E-04 | 9.54E-05 |
| 1345 | 259278.5 | 4084493 | 1.13E-03 | 1.72E-04 | 9.32E-05 |
| 1346 | 259288.5 | 4084515 | 1.10E-03 | 1.68E-04 | 9.09E-05 |
| 1347 | 259298.4 | 4084537 | 1.07E-03 | 1.63E-04 | 8.84E-05 |
| 1348 | 259308.4 | 4084559 | 1.04E-03 | 1.59E-04 | 8.59E-05 |
| 1349 | 259318.4 | 4084581 | 1.01E-03 | 1.54E-04 | 8.33E-05 |
| 1350 | 259328.4 | 4084603 | 9.78E-04 | 1.49E-04 | 8.06E-05 |
| 1351 | 259338.4 | 4084625 | 9.43E-04 | 1.44E-04 | 7.78E-05 |
| 1352 | 259348.4 | 4084647 | 9.08E-04 | 1.38E-04 | 7.49E-05 |
| 1353 | 259358.4 | 4084669 | 8.72E-04 | 1.33E-04 | 7.19E-05 |
| 1354 | 259368.3 | 4084691 | 8.35E-04 | 1.27E-04 | 6.88E-05 |
| 1355 | 259378.3 | 4084713 | 7.99E-04 | 1.22E-04 | 6.59E-05 |
| 1356 | 259388.3 | 4084735 | 7.64E-04 | 1.16E-04 | 6.30E-05 |

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| 1357 | 259398.3 | 4084758 | 7.31E-04 | 1.11E-04 | 6.03E-05 |
| 1358 | 259408.3 | 4084780 | 7.00E-04 | 1.07E-04 | 5.77E-05 |
| 1359 | 259418.3 | 4084802 | 6.72E-04 | 1.02E-04 | 5.54E-05 |
| 1360 | 259428.3 | 4084824 | 6.45E-04 | 9.82E-05 | 5.32E-05 |
| 1361 | 259438.2 | 4084846 | 6.19E-04 | 9.43E-05 | 5.10E-05 |
| 1362 | 259448.2 | 4084868 | 5.94E-04 | 9.05E-05 | 4.90E-05 |
| 1363 | 258313.5 | 4083823 | 2.66E-04 | 4.06E-05 | 2.20E-05 |
| 1364 | 258289.2 | 4083824 | 2.59E-04 | 3.94E-05 | 2.13E-05 |
| 1365 | 258264.8 | 4083825 | 2.51E-04 | 3.82E-05 | 2.07E-05 |
| 1366 | 258240.5 | 4083826 | 2.44E-04 | 3.71E-05 | 2.01E-05 |
| 1367 | 258216.2 | 4083827 | 2.37E-04 | 3.61E-05 | 1.95E-05 |
| 1368 | 258191.8 | 4083828 | 2.30E-04 | 3.50E-05 | 1.89E-05 |
| 1369 | 258167.5 | 4083829 | 2.23E-04 | 3.39E-05 | 1.84E-05 |
| 1370 | 258143.2 | 4083830 | 2.16E-04 | 3.29E-05 | 1.78E-05 |
| 1371 | 258118.8 | 4083831 | 2.09E-04 | 3.19E-05 | 1.72E-05 |
| 1372 | 258094.5 | 4083832 | 2.03E-04 | 3.09E-05 | 1.67E-05 |
| 1373 | 258070.2 | 4083833 | 1.96E-04 | 2.99E-05 | 1.62E-05 |
| 1374 | 258045.9 | 4083834 | 1.90E-04 | 2.90E-05 | 1.57E-05 |
| 1375 | 258021.5 | 4083835 | 1.84E-04 | 2.81E-05 | 1.52E-05 |
| 1376 | 257997.2 | 4083836 | 1.79E-04 | 2.72E-05 | 1.47E-05 |
| 1377 | 257972.9 | 4083837 | 1.73E-04 | 2.64E-05 | 1.43E-05 |
| 1378 | 257948.5 | 4083838 | 1.68E-04 | 2.56E-05 | 1.39E-05 |
| 1379 | 257924.2 | 4083839 | 1.63E-04 | 2.49E-05 | 1.35E-05 |
| 1380 | 257899.9 | 4083840 | 1.59E-04 | 2.42E-05 | 1.31E-05 |
| 1381 | 257875.5 | 4083841 | 1.55E-04 | 2.36E-05 | 1.28E-05 |
| 1382 | 257851.2 | 4083842 | 1.51E-04 | 2.30E-05 | 1.25E-05 |
| 1383 | 257826.9 | 4083843 | 1.48E-04 | 2.25E-05 | 1.22E-05 |
| 1384 | 257802.5 | 4083844 | 1.45E-04 | 2.21E-05 | 1.19E-05 |
| 1385 | 257778.2 | 4083845 | 1.42E-04 | 2.16E-05 | 1.17E-05 |
| 1386 | 257753.9 | 4083846 | 1.39E-04 | 2.12E-05 | 1.15E-05 |
| 1387 | 257729.5 | 4083847 | 1.37E-04 | 2.09E-05 | 1.13E-05 |
| 1388 | 257705.2 | 4083848 | 1.35E-04 | 2.05E-05 | 1.11E-05 |
| 1389 | 257680.9 | 4083849 | 1.33E-04 | 2.02E-05 | 1.10E-05 |
| 1390 | 257656.5 | 4083850 | 1.31E-04 | 2.00E-05 | 1.08E-05 |
| 1391 | 257632.2 | 4083851 | 1.29E-04 | 1.97E-05 | 1.07E-05 |
| 1392 | 257607.9 | 4083852 | 1.28E-04 | 1.94E-05 | 1.05E-05 |
| 1393 | 257583.5 | 4083853 | 1.26E-04 | 1.92E-05 | 1.04E-05 |
| 1394 | 257559.2 | 4083854 | 1.24E-04 | 1.89E-05 | 1.02E-05 |
| 1395 | 257534.9 | 4083855 | 1.23E-04 | 1.87E-05 | 1.01E-05 |
| 1396 | 257510.6 | 4083856 | 1.21E-04 | 1.84E-05 | 9.97E-06 |
| 1397 | 258327.7 | 4083631 | 1.89E-04 | 2.89E-05 | 1.56E-05 |
| 1398 | 258350 | 4083640 | 1.97E-04 | 3.00E-05 | 1.62E-05 |
| 1399 | 258372.4 | 4083648 | 2.05E-04 | 3.12E-05 | 1.69E-05 |
| 1400 | 258394.8 | 4083656 | 2.13E-04 | 3.25E-05 | 1.76E-05 |
| 1401 | 258417.2 | 4083665 | 2.22E-04 | 3.39E-05 | 1.83E-05 |
| 1402 | 258439.5 | 4083673 | 2.32E-04 | 3.54E-05 | 1.91E-05 |
| 1403 | 258461.9 | 4083681 | 2.43E-04 | 3.70E-05 | 2.00E-05 |

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| 1404 | 258484.3 | 4083689 | 2.54E-04 | 3.87E-05 | 2.09E-05 |
| 1405 | 258506.7 | 4083698 | 2.66E-04 | 4.05E-05 | 2.19E-05 |
| 1406 | 258529 | 4083706 | 2.79E-04 | 4.25E-05 | 2.30E-05 |
| 1407 | 258551.4 | 4083714 | 2.93E-04 | 4.47E-05 | 2.42E-05 |
| 1408 | 258573.8 | 4083723 | 3.08E-04 | 4.69E-05 | 2.54E-05 |
| 1409 | 258596.2 | 4083731 | 3.24E-04 | 4.93E-05 | 2.67E-05 |
| 1410 | 258618.5 | 4083739 | 3.40E-04 | 5.18E-05 | 2.80E-05 |
| 1411 | 258640.9 | 4083747 | 3.57E-04 | 5.45E-05 | 2.95E-05 |
| 1412 | 258663.3 | 4083756 | 3.75E-04 | 5.72E-05 | 3.09E-05 |
| 1413 | 258685.7 | 4083764 | 3.94E-04 | 6.00E-05 | 3.25E-05 |
| 1414 | 258708 | 4083772 | 4.14E-04 | 6.30E-05 | 3.41E-05 |
| 1415 | 258730.4 | 4083781 | 4.34E-04 | 6.61E-05 | 3.57E-05 |
| 1416 | 258752.8 | 4083789 | 4.54E-04 | 6.92E-05 | 3.75E-05 |
| 1417 | 258775.2 | 4083797 | 4.75E-04 | 7.24E-05 | 3.92E-05 |
| 1418 | 258797.6 | 4083805 | 4.97E-04 | 7.57E-05 | 4.10E-05 |
| 1419 | 258819.9 | 4083814 | 5.19E-04 | 7.91E-05 | 4.28E-05 |
| 1420 | 258842.3 | 4083822 | 5.41E-04 | 8.25E-05 | 4.46E-05 |
| 1421 | 258864.7 | 4083830 | 5.64E-04 | 8.59E-05 | 4.65E-05 |
| 1422 | 258887.1 | 4083839 | 5.86E-04 | 8.93E-05 | 4.83E-05 |
| 1423 | 258909.4 | 4083847 | 6.09E-04 | 9.27E-05 | 5.02E-05 |
| 1424 | 258931.8 | 4083855 | 6.31E-04 | 9.61E-05 | 5.20E-05 |
| 1425 | 258954.2 | 4083863 | 6.53E-04 | 9.95E-05 | 5.38E-05 |
| 1426 | 258976.6 | 4083872 | 6.75E-04 | 1.03E-04 | 5.56E-05 |
| 1427 | 258998.9 | 4083880 | 6.96E-04 | 1.06E-04 | 5.74E-05 |
| 1428 | 259021.3 | 4083888 | 7.16E-04 | 1.09E-04 | 5.91E-05 |
| 1429 | 259043.7 | 4083897 | 7.36E-04 | 1.12E-04 | 6.07E-05 |
| 1430 | 259066.1 | 4083905 | 7.54E-04 | 1.15E-04 | 6.22E-05 |
| 1431 | 259088.4 | 4083913 | 7.72E-04 | 1.18E-04 | 6.36E-05 |
| 1432 | 259110.8 | 4083921 | 7.87E-04 | 1.20E-04 | 6.49E-05 |
| 1433 | 259133.2 | 4083930 | 8.02E-04 | 1.22E-04 | 6.61E-05 |
| 1434 | 259155.6 | 4083938 | 8.15E-04 | 1.24E-04 | 6.72E-05 |
| 1435 | 259177.9 | 4083946 | 8.25E-04 | 1.26E-04 | 6.80E-05 |
| 1436 | 259200.3 | 4083955 | 8.35E-04 | 1.27E-04 | 6.88E-05 |
| 1437 | 259222.7 | 4083963 | 8.43E-04 | 1.28E-04 | 6.95E-05 |
| 1438 | 259254.9 | 4083993 | 8.71E-04 | 1.33E-04 | 7.18E-05 |
| 1439 | 259264.7 | 4084015 | 8.93E-04 | 1.36E-04 | 7.36E-05 |
| 1440 | 259274.6 | 4084036 | 9.13E-04 | 1.39E-04 | 7.52E-05 |
| 1441 | 259284.4 | 4084058 | 9.31E-04 | 1.42E-04 | 7.67E-05 |
| 1442 | 259294.2 | 4084080 | 9.47E-04 | 1.44E-04 | 7.81E-05 |
| 1443 | 259304.1 | 4084102 | 9.61E-04 | 1.46E-04 | 7.92E-05 |
| 1444 | 259313.9 | 4084123 | 9.72E-04 | 1.48E-04 | 8.02E-05 |
| 1445 | 259323.7 | 4084145 | 9.81E-04 | 1.49E-04 | 8.09E-05 |
| 1446 | 259333.6 | 4084167 | 9.87E-04 | 1.50E-04 | 8.14E-05 |
| 1447 | 259343.4 | 4084188 | 9.91E-04 | 1.51E-04 | 8.17E-05 |
| 1448 | 259353.3 | 4084210 | 9.91E-04 | 1.51E-04 | 8.17E-05 |
| 1449 | 259363.1 | 4084232 | 9.89E-04 | 1.51E-04 | 8.15E-05 |
| 1450 | 259372.9 | 4084254 | 9.84E-04 | 1.50E-04 | 8.11E-05 |

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| 1451 | 259382.8 | 4084275 | 9.76E-04 | 1.49E-04 | 8.04E-05 |
| 1452 | 259392.6 | 4084297 | 9.66E-04 | 1.47E-04 | 7.96E-05 |
| 1453 | 259402.4 | 4084319 | 9.53E-04 | 1.45E-04 | 7.86E-05 |
| 1454 | 259412.3 | 4084341 | 9.39E-04 | 1.43E-04 | 7.74E-05 |
| 1455 | 259422.1 | 4084362 | 9.22E-04 | 1.41E-04 | 7.60E-05 |
| 1456 | 259431.9 | 4084384 | 9.05E-04 | 1.38E-04 | 7.46E-05 |
| 1457 | 259441.8 | 4084406 | 8.90E-04 | 1.36E-04 | 7.34E-05 |
| 1458 | 259451.6 | 4084428 | 8.72E-04 | 1.33E-04 | 7.18E-05 |
| 1459 | 259461.4 | 4084449 | 8.53E-04 | 1.30E-04 | 7.03E-05 |
| 1460 | 259471.3 | 4084471 | 8.34E-04 | 1.27E-04 | 6.87E-05 |
| 1461 | 259481.1 | 4084493 | 8.14E-04 | 1.24E-04 | 6.71E-05 |
| 1462 | 259490.9 | 4084515 | 7.95E-04 | 1.21E-04 | 6.55E-05 |
| 1463 | 259500.8 | 4084536 | 7.74E-04 | 1.18E-04 | 6.38E-05 |
| 1464 | 259510.6 | 4084558 | 7.53E-04 | 1.15E-04 | 6.21E-05 |
| 1465 | 259520.4 | 4084580 | 7.31E-04 | 1.11E-04 | 6.02E-05 |
| 1466 | 259530.3 | 4084602 | 7.07E-04 | 1.08E-04 | 5.83E-05 |
| 1467 | 259540.1 | 4084623 | 6.82E-04 | 1.04E-04 | 5.62E-05 |
| 1468 | 259549.9 | 4084645 | 6.57E-04 | 1.00E-04 | 5.41E-05 |
| 1469 | 259559.8 | 4084667 | 6.32E-04 | 9.62E-05 | 5.21E-05 |
| 1470 | 259569.6 | 4084688 | 6.07E-04 | 9.25E-05 | 5.01E-05 |
| 1471 | 259579.5 | 4084710 | 5.84E-04 | 8.90E-05 | 4.82E-05 |
| 1472 | 259589.3 | 4084732 | 5.63E-04 | 8.58E-05 | 4.64E-05 |
| 1473 | 259599.1 | 4084754 | 5.44E-04 | 8.29E-05 | 4.49E-05 |
| 1474 | 259609 | 4084775 | 5.26E-04 | 8.02E-05 | 4.34E-05 |
| 1475 | 259618.8 | 4084797 | 5.10E-04 | 7.77E-05 | 4.20E-05 |
| 1476 | 259628.6 | 4084819 | 4.94E-04 | 7.52E-05 | 4.07E-05 |
| 1477 | 259638.5 | 4084841 | 4.78E-04 | 7.28E-05 | 3.94E-05 |
| 1478 | 259648.3 | 4084862 | 4.62E-04 | 7.03E-05 | 3.80E-05 |
| 1479 | 258305.3 | 4083623 | 1.82E-04 | 2.78E-05 | 1.50E-05 |
| 1480 | 258281 | 4083624 | 1.78E-04 | 2.71E-05 | 1.47E-05 |
| 1481 | 258256.6 | 4083625 | 1.74E-04 | 2.65E-05 | 1.43E-05 |
| 1482 | 258232.3 | 4083626 | 1.70E-04 | 2.59E-05 | 1.40E-05 |
| 1483 | 258208 | 4083627 | 1.66E-04 | 2.53E-05 | 1.37E-05 |
| 1484 | 258183.6 | 4083628 | 1.62E-04 | 2.47E-05 | 1.34E-05 |
| 1485 | 258159.3 | 4083629 | 1.58E-04 | 2.41E-05 | 1.30E-05 |
| 1486 | 258135 | 4083630 | 1.54E-04 | 2.35E-05 | 1.27E-05 |
| 1487 | 258110.6 | 4083631 | 1.51E-04 | 2.29E-05 | 1.24E-05 |
| 1488 | 258086.3 | 4083632 | 1.47E-04 | 2.24E-05 | 1.21E-05 |
| 1489 | 258062 | 4083633 | 1.43E-04 | 2.18E-05 | 1.18E-05 |
| 1490 | 258037.6 | 4083634 | 1.40E-04 | 2.13E-05 | 1.15E-05 |
| 1491 | 258013.3 | 4083635 | 1.36E-04 | 2.07E-05 | 1.12E-05 |
| 1492 | 257989 | 4083636 | 1.33E-04 | 2.02E-05 | 1.10E-05 |
| 1493 | 257964.6 | 4083637 | 1.30E-04 | 1.98E-05 | 1.07E-05 |
| 1494 | 257940.3 | 4083638 | 1.27E-04 | 1.93E-05 | 1.04E-05 |
| 1495 | 257916 | 4083639 | 1.24E-04 | 1.89E-05 | 1.02E-05 |
| 1496 | 257891.6 | 4083640 | 1.21E-04 | 1.84E-05 | 9.97E-06 |
| 1497 | 257867.3 | 4083641 | 1.18E-04 | 1.80E-05 | 9.76E-06 |

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| 1498 | 257843 | 4083642 | 1.16E-04 | 1.77E-05 | 9.55E-06 |
| 1499 | 257818.6 | 4083643 | 1.14E-04 | 1.73E-05 | 9.37E-06 |
| 1500 | 257794.3 | 4083644 | 1.12E-04 | 1.70E-05 | 9.20E-06 |
| 1501 | 257770 | 4083645 | 1.10E-04 | 1.67E-05 | 9.04E-06 |
| 1502 | 257745.7 | 4083646 | 1.08E-04 | 1.64E-05 | 8.88E-06 |
| 1503 | 257721.3 | 4083647 | 1.06E-04 | 1.62E-05 | 8.75E-06 |
| 1504 | 257697 | 4083648 | 1.05E-04 | 1.59E-05 | 8.62E-06 |
| 1505 | 257672.7 | 4083649 | 1.03E-04 | 1.57E-05 | 8.50E-06 |
| 1506 | 257648.3 | 4083650 | 1.02E-04 | 1.55E-05 | 8.39E-06 |
| 1507 | 257624 | 4083651 | 1.00E-04 | 1.53E-05 | 8.28E-06 |
| 1508 | 257599.7 | 4083652 | 9.93E-05 | 1.51E-05 | 8.18E-06 |
| 1509 | 257575.3 | 4083653 | 9.81E-05 | 1.49E-05 | 8.09E-06 |
| 1510 | 257551 | 4083654 | 9.69E-05 | 1.48E-05 | 7.99E-06 |
| 1511 | 257526.7 | 4083655 | 9.59E-05 | 1.46E-05 | 7.90E-06 |
| 1512 | 257502.3 | 4083656 | 9.47E-05 | 1.44E-05 | 7.81E-06 |
| 1513 | 258319.7 | 4083432 | 1.40E-04 | 2.13E-05 | 1.15E-05 |
| 1514 | 258342.3 | 4083440 | 1.44E-04 | 2.20E-05 | 1.19E-05 |
| 1515 | 258364.8 | 4083448 | 1.49E-04 | 2.27E-05 | 1.23E-05 |
| 1516 | 258387.4 | 4083457 | 1.54E-04 | 2.35E-05 | 1.27E-05 |
| 1517 | 258410 | 4083465 | 1.59E-04 | 2.43E-05 | 1.31E-05 |
| 1518 | 258432.6 | 4083474 | 1.65E-04 | 2.52E-05 | 1.36E-05 |
| 1519 | 258455.2 | 4083482 | 1.71E-04 | 2.61E-05 | 1.41E-05 |
| 1520 | 258477.8 | 4083490 | 1.78E-04 | 2.70E-05 | 1.46E-05 |
| 1521 | 258500.4 | 4083499 | 1.84E-04 | 2.81E-05 | 1.52E-05 |
| 1522 | 258523 | 4083507 | 1.91E-04 | 2.92E-05 | 1.58E-05 |
| 1523 | 258545.6 | 4083515 | 1.99E-04 | 3.03E-05 | 1.64E-05 |
| 1524 | 258568.2 | 4083524 | 2.07E-04 | 3.16E-05 | 1.71E-05 |
| 1525 | 258590.8 | 4083532 | 2.16E-04 | 3.29E-05 | 1.78E-05 |
| 1526 | 258613.3 | 4083540 | 2.25E-04 | 3.43E-05 | 1.86E-05 |
| 1527 | 258635.9 | 4083549 | 2.35E-04 | 3.58E-05 | 1.94E-05 |
| 1528 | 258658.5 | 4083557 | 2.46E-04 | 3.75E-05 | 2.03E-05 |
| 1529 | 258681.1 | 4083566 | 2.57E-04 | 3.92E-05 | 2.12E-05 |
| 1530 | 258703.7 | 4083574 | 2.69E-04 | 4.10E-05 | 2.22E-05 |
| 1531 | 258726.3 | 4083582 | 2.81E-04 | 4.29E-05 | 2.32E-05 |
| 1532 | 258748.9 | 4083591 | 2.94E-04 | 4.48E-05 | 2.43E-05 |
| 1533 | 258771.5 | 4083599 | 3.08E-04 | 4.69E-05 | 2.54E-05 |
| 1534 | 258794.1 | 4083607 | 3.22E-04 | 4.90E-05 | 2.65E-05 |
| 1535 | 258816.7 | 4083616 | 3.36E-04 | 5.12E-05 | 2.77E-05 |
| 1536 | 258839.3 | 4083624 | 3.51E-04 | 5.34E-05 | 2.89E-05 |
| 1537 | 258861.8 | 4083632 | 3.66E-04 | 5.57E-05 | 3.02E-05 |
| 1538 | 258884.4 | 4083641 | 3.81E-04 | 5.81E-05 | 3.14E-05 |
| 1539 | 258907 | 4083649 | 3.97E-04 | 6.05E-05 | 3.27E-05 |
| 1540 | 258929.6 | 4083658 | 4.14E-04 | 6.30E-05 | 3.41E-05 |
| 1541 | 258952.2 | 4083666 | 4.30E-04 | 6.55E-05 | 3.54E-05 |
| 1542 | 258974.8 | 4083674 | 4.47E-04 | 6.81E-05 | 3.68E-05 |
| 1543 | 258997.4 | 4083683 | 4.64E-04 | 7.06E-05 | 3.82E-05 |
| 1544 | 259020 | 4083691 | 4.81E-04 | 7.32E-05 | 3.96E-05 |

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| 1545 | 259042.6 | 4083699 | 4.98E-04 | 7.58E-05 | 4.10E-05 |
| 1546 | 259065.2 | 4083708 | 5.15E-04 | 7.84E-05 | 4.24E-05 |
| 1547 | 259087.8 | 4083716 | 5.31E-04 | 8.10E-05 | 4.38E-05 |
| 1548 | 259110.3 | 4083724 | 5.48E-04 | 8.35E-05 | 4.52E-05 |
| 1549 | 259132.9 | 4083733 | 5.64E-04 | 8.59E-05 | 4.65E-05 |
| 1550 | 259155.5 | 4083741 | 5.80E-04 | 8.83E-05 | 4.78E-05 |
| 1551 | 259178.1 | 4083750 | 5.95E-04 | 9.06E-05 | 4.90E-05 |
| 1552 | 259200.7 | 4083758 | 6.09E-04 | 9.28E-05 | 5.02E-05 |
| 1553 | 259223.3 | 4083766 | 6.22E-04 | 9.48E-05 | 5.13E-05 |
| 1554 | 259245.9 | 4083775 | 6.34E-04 | 9.66E-05 | 5.23E-05 |
| 1555 | 259268.5 | 4083783 | 6.45E-04 | 9.83E-05 | 5.32E-05 |
| 1556 | 259291.1 | 4083791 | 6.55E-04 | 9.98E-05 | 5.40E-05 |
| 1557 | 259313.7 | 4083800 | 6.64E-04 | 1.01E-04 | 5.47E-05 |
| 1558 | 259336.3 | 4083808 | 6.72E-04 | 1.02E-04 | 5.54E-05 |
| 1559 | 259358.8 | 4083816 | 6.78E-04 | 1.03E-04 | 5.59E-05 |
| 1560 | 259391.4 | 4083847 | 7.01E-04 | 1.07E-04 | 5.78E-05 |
| 1561 | 259401.3 | 4083869 | 7.17E-04 | 1.09E-04 | 5.91E-05 |
| 1562 | 259411.2 | 4083891 | 7.33E-04 | 1.12E-04 | 6.04E-05 |
| 1563 | 259421.2 | 4083913 | 7.47E-04 | 1.14E-04 | 6.16E-05 |
| 1564 | 259431.1 | 4083935 | 7.61E-04 | 1.16E-04 | 6.27E-05 |
| 1565 | 259441 | 4083956 | 7.73E-04 | 1.18E-04 | 6.37E-05 |
| 1566 | 259450.9 | 4083978 | 7.83E-04 | 1.19E-04 | 6.46E-05 |
| 1567 | 259460.9 | 4084000 | 7.92E-04 | 1.21E-04 | 6.53E-05 |
| 1568 | 259470.8 | 4084022 | 8.00E-04 | 1.22E-04 | 6.59E-05 |
| 1569 | 259480.7 | 4084044 | 8.06E-04 | 1.23E-04 | 6.64E-05 |
| 1570 | 259490.7 | 4084066 | 8.09E-04 | 1.23E-04 | 6.67E-05 |
| 1571 | 259500.6 | 4084088 | 8.11E-04 | 1.24E-04 | 6.69E-05 |
| 1572 | 259510.5 | 4084110 | 8.11E-04 | 1.24E-04 | 6.68E-05 |
| 1573 | 259520.4 | 4084132 | 8.09E-04 | 1.23E-04 | 6.67E-05 |
| 1574 | 259530.4 | 4084154 | 8.05E-04 | 1.23E-04 | 6.63E-05 |
| 1575 | 259540.3 | 4084176 | 7.99E-04 | 1.22E-04 | 6.58E-05 |
| 1576 | 259550.2 | 4084198 | 7.91E-04 | 1.20E-04 | 6.52E-05 |
| 1577 | 259560.2 | 4084220 | 7.82E-04 | 1.19E-04 | 6.44E-05 |
| 1578 | 259570.1 | 4084242 | 7.71E-04 | 1.17E-04 | 6.35E-05 |
| 1579 | 259580 | 4084264 | 7.59E-04 | 1.16E-04 | 6.25E-05 |
| 1580 | 259590 | 4084286 | 7.46E-04 | 1.14E-04 | 6.15E-05 |
| 1581 | 259599.9 | 4084308 | 7.32E-04 | 1.12E-04 | 6.04E-05 |
| 1582 | 259609.8 | 4084330 | 7.19E-04 | 1.09E-04 | 5.92E-05 |
| 1583 | 259619.7 | 4084352 | 7.05E-04 | 1.07E-04 | 5.81E-05 |
| 1584 | 259629.7 | 4084374 | 6.92E-04 | 1.05E-04 | 5.70E-05 |
| 1585 | 259639.6 | 4084395 | 6.79E-04 | 1.03E-04 | 5.60E-05 |
| 1586 | 259649.5 | 4084417 | 6.69E-04 | 1.02E-04 | 5.51E-05 |
| 1587 | 259659.5 | 4084439 | 6.56E-04 | 9.99E-05 | 5.41E-05 |
| 1588 | 259669.4 | 4084461 | 6.43E-04 | 9.80E-05 | 5.30E-05 |
| 1589 | 259679.3 | 4084483 | 6.29E-04 | 9.58E-05 | 5.19E-05 |
| 1590 | 259689.2 | 4084505 | 6.14E-04 | 9.36E-05 | 5.06E-05 |
| 1591 | 259699.2 | 4084527 | 5.99E-04 | 9.12E-05 | 4.93E-05 |

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| 1592 | 259709.1 | 4084549 | 5.81E-04 | 8.86E-05 | 4.79E-05 |
| 1593 | 259719 | 4084571 | 5.63E-04 | 8.58E-05 | 4.64E-05 |
| 1594 | 259729 | 4084593 | 5.44E-04 | 8.29E-05 | 4.49E-05 |
| 1595 | 259738.9 | 4084615 | 5.25E-04 | 8.00E-05 | 4.33E-05 |
| 1596 | 259748.8 | 4084637 | 5.06E-04 | 7.72E-05 | 4.18E-05 |
| 1597 | 259758.8 | 4084659 | 4.89E-04 | 7.45E-05 | 4.03E-05 |
| 1598 | 259768.7 | 4084681 | 4.73E-04 | 7.20E-05 | 3.90E-05 |
| 1599 | 259778.6 | 4084703 | 4.58E-04 | 6.98E-05 | 3.78E-05 |
| 1600 | 259788.5 | 4084725 | 4.45E-04 | 6.78E-05 | 3.67E-05 |
| 1601 | 259798.5 | 4084747 | 4.33E-04 | 6.60E-05 | 3.57E-05 |
| 1602 | 259808.4 | 4084769 | 4.22E-04 | 6.43E-05 | 3.48E-05 |
| 1603 | 259818.3 | 4084791 | 4.11E-04 | 6.26E-05 | 3.39E-05 |
| 1604 | 259828.3 | 4084812 | 4.00E-04 | 6.09E-05 | 3.30E-05 |
| 1605 | 259838.2 | 4084834 | 3.89E-04 | 5.92E-05 | 3.20E-05 |
| 1606 | 259848.1 | 4084856 | 3.77E-04 | 5.74E-05 | 3.11E-05 |
| 1607 | 258297.1 | 4083423 | 1.36E-04 | 2.07E-05 | 1.12E-05 |
| 1608 | 258272.7 | 4083424 | 1.33E-04 | 2.02E-05 | 1.10E-05 |
| 1609 | 258248.4 | 4083425 | 1.30E-04 | 1.99E-05 | 1.07E-05 |
| 1610 | 258224.1 | 4083426 | 1.28E-04 | 1.95E-05 | 1.06E-05 |
| 1611 | 258199.7 | 4083427 | 1.26E-04 | 1.91E-05 | 1.04E-05 |
| 1612 | 258175.4 | 4083428 | 1.23E-04 | 1.88E-05 | 1.02E-05 |
| 1613 | 258151.1 | 4083429 | 1.21E-04 | 1.85E-05 | 9.99E-06 |
| 1614 | 258126.7 | 4083430 | 1.19E-04 | 1.81E-05 | 9.81E-06 |
| 1615 | 258102.4 | 4083431 | 1.17E-04 | 1.78E-05 | 9.63E-06 |
| 1616 | 258078.1 | 4083432 | 1.15E-04 | 1.75E-05 | 9.44E-06 |
| 1617 | 258053.8 | 4083433 | 1.12E-04 | 1.71E-05 | 9.27E-06 |
| 1618 | 258029.4 | 4083434 | 1.10E-04 | 1.68E-05 | 9.09E-06 |
| 1619 | 258005.1 | 4083435 | 1.08E-04 | 1.65E-05 | 8.92E-06 |
| 1620 | 257980.8 | 4083436 | 1.06E-04 | 1.61E-05 | 8.73E-06 |
| 1621 | 257956.4 | 4083437 | 1.04E-04 | 1.58E-05 | 8.56E-06 |
| 1622 | 257932.1 | 4083438 | 1.02E-04 | 1.55E-05 | 8.40E-06 |
| 1623 | 257907.8 | 4083439 | 9.99E-05 | 1.52E-05 | 8.23E-06 |
| 1624 | 257883.4 | 4083440 | 9.80E-05 | 1.49E-05 | 8.07E-06 |
| 1625 | 257859.1 | 4083441 | 9.62E-05 | 1.47E-05 | 7.93E-06 |
| 1626 | 257834.8 | 4083442 | 9.44E-05 | 1.44E-05 | 7.78E-06 |
| 1627 | 257810.4 | 4083443 | 9.28E-05 | 1.41E-05 | 7.65E-06 |
| 1628 | 257786.1 | 4083444 | 9.11E-05 | 1.39E-05 | 7.51E-06 |
| 1629 | 257761.8 | 4083445 | 8.97E-05 | 1.37E-05 | 7.39E-06 |
| 1630 | 257737.4 | 4083446 | 8.82E-05 | 1.34E-05 | 7.27E-06 |
| 1631 | 257713.1 | 4083447 | 8.68E-05 | 1.32E-05 | 7.16E-06 |
| 1632 | 257688.8 | 4083448 | 8.55E-05 | 1.30E-05 | 7.05E-06 |
| 1633 | 257664.4 | 4083449 | 8.43E-05 | 1.28E-05 | 6.95E-06 |
| 1634 | 257640.1 | 4083450 | 8.31E-05 | 1.27E-05 | 6.85E-06 |
| 1635 | 257615.8 | 4083451 | 8.19E-05 | 1.25E-05 | 6.75E-06 |
| 1636 | 257591.4 | 4083452 | 8.09E-05 | 1.23E-05 | 6.67E-06 |
| 1637 | 257567.1 | 4083453 | 7.99E-05 | 1.22E-05 | 6.58E-06 |
| 1638 | 257542.8 | 4083454 | 7.88E-05 | 1.20E-05 | 6.50E-06 |

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| 1639 | 257518.5 | 4083455 | 7.78E-05 | 1.19E-05 | 6.41E-06 |
| 1640 | 257494.1 | 4083456 | 7.69E-05 | 1.17E-05 | 6.34E-06 |
| 1641 | 257530.8 | 4084956 | 5.88E-03 | 8.96E-04 | 4.85E-04 |
| 1642 | 257532.4 | 4085001 | 1.56E-02 | 2.37E-03 | 1.28E-03 |
| 1643 | 257534.1 | 4085045 | 2.48E-02 | 3.77E-03 | 2.04E-03 |
| 1644 | 257534.9 | 4085067 | 2.77E-02 | 4.22E-03 | 2.28E-03 |
| 1645 | 257536.5 | 4085112 | 3.11E-02 | 4.74E-03 | 2.57E-03 |
| 1646 | 257538.2 | 4085157 | 3.01E-02 | 4.59E-03 | 2.48E-03 |
| 1647 | 257512.4 | 4084939 | 3.68E-03 | 5.60E-04 | 3.03E-04 |
| 1648 | 257506.6 | 4084979 | 6.17E-03 | 9.40E-04 | 5.09E-04 |
| 1649 | 257508.2 | 4085024 | 1.18E-02 | 1.79E-03 | 9.70E-04 |
| 1650 | 257509.9 | 4085068 | 1.68E-02 | 2.56E-03 | 1.38E-03 |
| 1651 | 257511.5 | 4085113 | 1.98E-02 | 3.02E-03 | 1.64E-03 |
| 1652 | 257513.2 | 4085157 | 2.04E-02 | 3.10E-03 | 1.68E-03 |
| 1653 | 257487.4 | 4084940 | 3.03E-03 | 4.62E-04 | 2.50E-04 |
| 1654 | 257518 | 4084896 | 2.43E-03 | 3.70E-04 | 2.00E-04 |
| 1655 | 257481.6 | 4084980 | 4.55E-03 | 6.94E-04 | 3.75E-04 |
| 1656 | 257483.3 | 4085025 | 7.73E-03 | 1.18E-03 | 6.38E-04 |
| 1657 | 257484.9 | 4085069 | 1.13E-02 | 1.72E-03 | 9.30E-04 |
| 1658 | 257486.6 | 4085114 | 1.38E-02 | 2.11E-03 | 1.14E-03 |
| 1659 | 257488.2 | 4085158 | 1.49E-02 | 2.26E-03 | 1.22E-03 |
| 1660 | 257462.4 | 4084941 | 2.57E-03 | 3.92E-04 | 2.12E-04 |
| 1661 | 257475.7 | 4084905 | 2.06E-03 | 3.13E-04 | 1.70E-04 |
| 1662 | 257499.6 | 4084879 | 1.91E-03 | 2.90E-04 | 1.57E-04 |
| 1663 | 257456.6 | 4084981 | 3.61E-03 | 5.50E-04 | 2.98E-04 |
| 1664 | 257458.3 | 4085026 | 5.60E-03 | 8.54E-04 | 4.62E-04 |
| 1665 | 257459.1 | 4085048 | 6.84E-03 | 1.04E-03 | 5.64E-04 |
| 1666 | 257460.8 | 4085092 | 9.23E-03 | 1.41E-03 | 7.61E-04 |
| 1667 | 257462.4 | 4085137 | 1.09E-02 | 1.66E-03 | 8.97E-04 |
| 1668 | 257412.5 | 4084943 | 1.96E-03 | 2.98E-04 | 1.61E-04 |
| 1669 | 257425.7 | 4084907 | 1.63E-03 | 2.48E-04 | 1.34E-04 |
| 1670 | 257439 | 4084871 | 1.38E-03 | 2.10E-04 | 1.14E-04 |
| 1671 | 257462.9 | 4084845 | 1.30E-03 | 1.98E-04 | 1.07E-04 |
| 1672 | 257497.6 | 4084829 | 1.35E-03 | 2.06E-04 | 1.11E-04 |
| 1673 | 257406.7 | 4084983 | 2.54E-03 | 3.87E-04 | 2.10E-04 |
| 1674 | 257408.3 | 4085027 | 3.51E-03 | 5.35E-04 | 2.90E-04 |
| 1675 | 257410 | 4085072 | 4.78E-03 | 7.29E-04 | 3.94E-04 |
| 1676 | 257411.6 | 4085117 | 6.10E-03 | 9.30E-04 | 5.03E-04 |
| 1677 | 257413.3 | 4085161 | 7.07E-03 | 1.08E-03 | 5.83E-04 |
| 1678 | 257363.4 | 4084942 | 1.55E-03 | 2.36E-04 | 1.28E-04 |
| 1679 | 257378.6 | 4084901 | 1.29E-03 | 1.97E-04 | 1.07E-04 |
| 1680 | 257393.7 | 4084860 | 1.10E-03 | 1.68E-04 | 9.08E-05 |
| 1681 | 257428.7 | 4084810 | 9.66E-04 | 1.47E-04 | 7.97E-05 |
| 1682 | 257468.3 | 4084792 | 9.96E-04 | 1.52E-04 | 8.21E-05 |
| 1683 | 257507.9 | 4084774 | 1.03E-03 | 1.57E-04 | 8.49E-05 |
| 1684 | 257356.7 | 4084985 | 1.95E-03 | 2.96E-04 | 1.60E-04 |
| 1685 | 257358.3 | 4085029 | 2.52E-03 | 3.84E-04 | 2.08E-04 |

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| 1686 | 257360 | 4085074 | 3.22E-03 | 4.91E-04 | 2.66E-04 |
| 1687 | 257361.7 | 4085118 | 4.03E-03 | 6.14E-04 | 3.32E-04 |
| 1688 | 257363.3 | 4085163 | 4.77E-03 | 7.26E-04 | 3.93E-04 |
| 1689 | 257313.3 | 4084944 | 1.29E-03 | 1.96E-04 | 1.06E-04 |
| 1690 | 257328 | 4084905 | 1.10E-03 | 1.68E-04 | 9.07E-05 |
| 1691 | 257342.7 | 4084865 | 9.55E-04 | 1.45E-04 | 7.87E-05 |
| 1692 | 257357.5 | 4084825 | 8.40E-04 | 1.28E-04 | 6.93E-05 |
| 1693 | 257391.4 | 4084776 | 7.53E-04 | 1.15E-04 | 6.21E-05 |
| 1694 | 257429.9 | 4084759 | 7.71E-04 | 1.17E-04 | 6.36E-05 |
| 1695 | 257468.5 | 4084741 | 7.88E-04 | 1.20E-04 | 6.49E-05 |
| 1696 | 257507 | 4084723 | 8.09E-04 | 1.23E-04 | 6.67E-05 |
| 1697 | 257306.7 | 4084987 | 1.57E-03 | 2.39E-04 | 1.29E-04 |
| 1698 | 257307.6 | 4085009 | 1.75E-03 | 2.67E-04 | 1.44E-04 |
| 1699 | 257309.2 | 4085053 | 2.15E-03 | 3.28E-04 | 1.78E-04 |
| 1700 | 257310.9 | 4085098 | 2.62E-03 | 3.99E-04 | 2.16E-04 |
| 1701 | 257312.5 | 4085143 | 3.13E-03 | 4.77E-04 | 2.58E-04 |
| 1702 | 257263.2 | 4084947 | 1.10E-03 | 1.67E-04 | 9.04E-05 |
| 1703 | 257277.6 | 4084908 | 9.51E-04 | 1.45E-04 | 7.84E-05 |
| 1704 | 257292.1 | 4084869 | 8.36E-04 | 1.27E-04 | 6.89E-05 |
| 1705 | 257306.6 | 4084829 | 7.45E-04 | 1.13E-04 | 6.14E-05 |
| 1706 | 257321 | 4084790 | 6.69E-04 | 1.02E-04 | 5.52E-05 |
| 1707 | 257354.4 | 4084743 | 6.09E-04 | 9.28E-05 | 5.02E-05 |
| 1708 | 257392.2 | 4084725 | 6.20E-04 | 9.45E-05 | 5.11E-05 |
| 1709 | 257430 | 4084708 | 6.30E-04 | 9.60E-05 | 5.19E-05 |
| 1710 | 257467.8 | 4084690 | 6.41E-04 | 9.77E-05 | 5.28E-05 |
| 1711 | 257505.6 | 4084673 | 6.56E-04 | 9.99E-05 | 5.41E-05 |
| 1712 | 257256.8 | 4084988 | 1.31E-03 | 1.99E-04 | 1.08E-04 |
| 1713 | 257258.4 | 4085033 | 1.58E-03 | 2.40E-04 | 1.30E-04 |
| 1714 | 257260.1 | 4085078 | 1.86E-03 | 2.84E-04 | 1.54E-04 |
| 1715 | 257261.7 | 4085122 | 2.18E-03 | 3.32E-04 | 1.79E-04 |
| 1716 | 257263.4 | 4085167 | 2.53E-03 | 3.85E-04 | 2.08E-04 |
| 1717 | 257163.6 | 4084949 | 8.40E-04 | 1.28E-04 | 6.92E-05 |
| 1718 | 257178.7 | 4084909 | 7.38E-04 | 1.12E-04 | 6.08E-05 |
| 1719 | 257193.9 | 4084868 | 6.53E-04 | 9.95E-05 | 5.38E-05 |
| 1720 | 257209 | 4084827 | 5.87E-04 | 8.94E-05 | 4.83E-05 |
| 1721 | 257224.2 | 4084786 | 5.32E-04 | 8.11E-05 | 4.39E-05 |
| 1722 | 257239.3 | 4084745 | 4.86E-04 | 7.41E-05 | 4.01E-05 |
| 1723 | 257254.5 | 4084704 | 4.45E-04 | 6.77E-05 | 3.66E-05 |
| 1724 | 257281.9 | 4084674 | 4.28E-04 | 6.51E-05 | 3.52E-05 |
| 1725 | 257321.5 | 4084656 | 4.33E-04 | 6.60E-05 | 3.57E-05 |
| 1726 | 257361.1 | 4084638 | 4.39E-04 | 6.69E-05 | 3.62E-05 |
| 1727 | 257400.7 | 4084619 | 4.45E-04 | 6.77E-05 | 3.66E-05 |
| 1728 | 257440.3 | 4084601 | 4.50E-04 | 6.86E-05 | 3.71E-05 |
| 1729 | 257479.9 | 4084583 | 4.59E-04 | 6.99E-05 | 3.78E-05 |
| 1730 | 257156.8 | 4084992 | 9.74E-04 | 1.48E-04 | 8.03E-05 |
| 1731 | 257158.5 | 4085037 | 1.13E-03 | 1.72E-04 | 9.33E-05 |
| 1732 | 257160.1 | 4085081 | 1.28E-03 | 1.95E-04 | 1.06E-04 |

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| 1733 | 257161.8 | 4085126 | 1.42E-03 | 2.17E-04 | 1.17E-04 |
| 1734 | 257162.6 | 4085148 | 1.50E-03 | 2.28E-04 | 1.24E-04 |
| 1735 | 257063.4 | 4084954 | 6.82E-04 | 1.04E-04 | 5.62E-05 |
| 1736 | 257078.2 | 4084914 | 6.09E-04 | 9.28E-05 | 5.02E-05 |
| 1737 | 257092.9 | 4084874 | 5.46E-04 | 8.32E-05 | 4.50E-05 |
| 1738 | 257107.6 | 4084834 | 4.94E-04 | 7.53E-05 | 4.07E-05 |
| 1739 | 257122.4 | 4084795 | 4.52E-04 | 6.88E-05 | 3.72E-05 |
| 1740 | 257137.1 | 4084755 | 4.16E-04 | 6.33E-05 | 3.43E-05 |
| 1741 | 257151.8 | 4084715 | 3.85E-04 | 5.87E-05 | 3.18E-05 |
| 1742 | 257166.6 | 4084675 | 3.58E-04 | 5.45E-05 | 2.95E-05 |
| 1743 | 257181.3 | 4084635 | 3.32E-04 | 5.05E-05 | 2.73E-05 |
| 1744 | 257207.9 | 4084607 | 3.21E-04 | 4.89E-05 | 2.64E-05 |
| 1745 | 257246.4 | 4084589 | 3.24E-04 | 4.94E-05 | 2.67E-05 |
| 1746 | 257284.9 | 4084571 | 3.28E-04 | 5.00E-05 | 2.71E-05 |
| 1747 | 257323.4 | 4084553 | 3.33E-04 | 5.07E-05 | 2.74E-05 |
| 1748 | 257361.9 | 4084536 | 3.37E-04 | 5.13E-05 | 2.78E-05 |
| 1749 | 257400.4 | 4084518 | 3.41E-04 | 5.19E-05 | 2.81E-05 |
| 1750 | 257438.9 | 4084500 | 3.45E-04 | 5.25E-05 | 2.84E-05 |
| 1751 | 257477.4 | 4084482 | 3.49E-04 | 5.32E-05 | 2.88E-05 |
| 1752 | 257056.9 | 4084996 | 7.73E-04 | 1.18E-04 | 6.37E-05 |
| 1753 | 257057.7 | 4085018 | 8.26E-04 | 1.26E-04 | 6.81E-05 |
| 1754 | 257059.4 | 4085063 | 9.23E-04 | 1.41E-04 | 7.61E-05 |
| 1755 | 257061 | 4085107 | 1.01E-03 | 1.53E-04 | 8.29E-05 |
| 1756 | 257062.7 | 4085152 | 1.08E-03 | 1.65E-04 | 8.90E-05 |
| 1757 | 256963.7 | 4084957 | 5.72E-04 | 8.71E-05 | 4.71E-05 |
| 1758 | 256978.9 | 4084916 | 5.15E-04 | 7.84E-05 | 4.24E-05 |
| 1759 | 256994 | 4084875 | 4.64E-04 | 7.08E-05 | 3.83E-05 |
| 1760 | 257009.2 | 4084834 | 4.23E-04 | 6.45E-05 | 3.49E-05 |
| 1761 | 257024.3 | 4084793 | 3.88E-04 | 5.91E-05 | 3.20E-05 |
| 1762 | 257039.5 | 4084752 | 3.57E-04 | 5.44E-05 | 2.94E-05 |
| 1763 | 257054.6 | 4084711 | 3.31E-04 | 5.04E-05 | 2.73E-05 |
| 1764 | 257069.8 | 4084670 | 3.08E-04 | 4.70E-05 | 2.54E-05 |
| 1765 | 257084.9 | 4084630 | 2.88E-04 | 4.39E-05 | 2.38E-05 |
| 1766 | 257100.1 | 4084589 | 2.70E-04 | 4.11E-05 | 2.22E-05 |
| 1767 | 257135 | 4084539 | 2.53E-04 | 3.86E-05 | 2.09E-05 |
| 1768 | 257174.6 | 4084520 | 2.56E-04 | 3.89E-05 | 2.11E-05 |
| 1769 | 257214.2 | 4084502 | 2.59E-04 | 3.95E-05 | 2.14E-05 |
| 1770 | 257253.8 | 4084484 | 2.64E-04 | 4.02E-05 | 2.17E-05 |
| 1771 | 257293.5 | 4084465 | 2.68E-04 | 4.08E-05 | 2.21E-05 |
| 1772 | 257333.1 | 4084447 | 2.71E-04 | 4.12E-05 | 2.23E-05 |
| 1773 | 257372.7 | 4084429 | 2.72E-04 | 4.15E-05 | 2.24E-05 |
| 1774 | 257412.3 | 4084410 | 2.73E-04 | 4.16E-05 | 2.25E-05 |
| 1775 | 257451.9 | 4084392 | 2.74E-04 | 4.17E-05 | 2.26E-05 |
| 1776 | 257491.5 | 4084374 | 2.75E-04 | 4.19E-05 | 2.26E-05 |
| 1777 | 256957 | 4085000 | 6.40E-04 | 9.75E-05 | 5.27E-05 |
| 1778 | 256958.6 | 4085044 | 7.12E-04 | 1.09E-04 | 5.87E-05 |
| 1779 | 256960.3 | 4085089 | 7.72E-04 | 1.18E-04 | 6.36E-05 |

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| 1780 | 256961.9 | 4085133 | 8.18E-04 | 1.25E-04 | 6.74E-05 |
| 1781 | 256963.6 | 4085178 | 8.61E-04 | 1.31E-04 | 7.10E-05 |
| 1782 | 256863.9 | 4084960 | 4.93E-04 | 7.50E-05 | 4.06E-05 |
| 1783 | 256879.4 | 4084918 | 4.46E-04 | 6.79E-05 | 3.68E-05 |
| 1784 | 256894.9 | 4084877 | 4.05E-04 | 6.17E-05 | 3.34E-05 |
| 1785 | 256910.3 | 4084835 | 3.71E-04 | 5.65E-05 | 3.06E-05 |
| 1786 | 256925.8 | 4084793 | 3.42E-04 | 5.22E-05 | 2.82E-05 |
| 1787 | 256941.3 | 4084751 | 3.17E-04 | 4.82E-05 | 2.61E-05 |
| 1788 | 256956.7 | 4084710 | 2.93E-04 | 4.46E-05 | 2.41E-05 |
| 1789 | 256972.2 | 4084668 | 2.72E-04 | 4.14E-05 | 2.24E-05 |
| 1790 | 256987.7 | 4084626 | 2.54E-04 | 3.87E-05 | 2.09E-05 |
| 1791 | 257003.1 | 4084584 | 2.39E-04 | 3.64E-05 | 1.97E-05 |
| 1792 | 257018.6 | 4084542 | 2.26E-04 | 3.44E-05 | 1.86E-05 |
| 1793 | 257034.1 | 4084501 | 2.13E-04 | 3.24E-05 | 1.75E-05 |
| 1794 | 257062 | 4084470 | 2.07E-04 | 3.16E-05 | 1.71E-05 |
| 1795 | 257102.5 | 4084452 | 2.10E-04 | 3.19E-05 | 1.73E-05 |
| 1796 | 257142.9 | 4084433 | 2.13E-04 | 3.25E-05 | 1.76E-05 |
| 1797 | 257183.3 | 4084414 | 2.17E-04 | 3.31E-05 | 1.79E-05 |
| 1798 | 257223.7 | 4084396 | 2.21E-04 | 3.37E-05 | 1.82E-05 |
| 1799 | 257264.2 | 4084377 | 2.24E-04 | 3.41E-05 | 1.84E-05 |
| 1800 | 257304.6 | 4084358 | 2.25E-04 | 3.42E-05 | 1.85E-05 |
| 1801 | 257345 | 4084340 | 2.24E-04 | 3.41E-05 | 1.84E-05 |
| 1802 | 257385.5 | 4084321 | 2.22E-04 | 3.38E-05 | 1.83E-05 |
| 1803 | 257425.9 | 4084302 | 2.20E-04 | 3.36E-05 | 1.82E-05 |
| 1804 | 257466.3 | 4084284 | 2.20E-04 | 3.35E-05 | 1.81E-05 |
| 1805 | 256857 | 4085003 | 5.46E-04 | 8.31E-05 | 4.50E-05 |
| 1806 | 256858.7 | 4085048 | 5.99E-04 | 9.13E-05 | 4.94E-05 |
| 1807 | 256860.3 | 4085092 | 6.41E-04 | 9.76E-05 | 5.28E-05 |
| 1808 | 256862 | 4085137 | 6.71E-04 | 1.02E-04 | 5.53E-05 |
| 1809 | 256863.6 | 4085182 | 6.98E-04 | 1.06E-04 | 5.75E-05 |
| 1810 | 256664 | 4084968 | 3.89E-04 | 5.92E-05 | 3.20E-05 |
| 1811 | 256679.4 | 4084926 | 3.56E-04 | 5.42E-05 | 2.94E-05 |
| 1812 | 256694.8 | 4084884 | 3.26E-04 | 4.97E-05 | 2.69E-05 |
| 1813 | 256710.2 | 4084843 | 3.01E-04 | 4.59E-05 | 2.48E-05 |
| 1814 | 256725.6 | 4084801 | 2.82E-04 | 4.29E-05 | 2.32E-05 |
| 1815 | 256741 | 4084760 | 2.65E-04 | 4.03E-05 | 2.18E-05 |
| 1816 | 256756.4 | 4084718 | 2.49E-04 | 3.79E-05 | 2.05E-05 |
| 1817 | 256771.8 | 4084677 | 2.32E-04 | 3.54E-05 | 1.92E-05 |
| 1818 | 256787.2 | 4084635 | 2.16E-04 | 3.29E-05 | 1.78E-05 |
| 1819 | 256802.6 | 4084593 | 2.01E-04 | 3.06E-05 | 1.65E-05 |
| 1820 | 256818 | 4084552 | 1.88E-04 | 2.86E-05 | 1.55E-05 |
| 1821 | 256833.4 | 4084510 | 1.78E-04 | 2.71E-05 | 1.47E-05 |
| 1822 | 256848.8 | 4084469 | 1.70E-04 | 2.59E-05 | 1.40E-05 |
| 1823 | 256864.2 | 4084427 | 1.63E-04 | 2.49E-05 | 1.35E-05 |
| 1824 | 256879.6 | 4084386 | 1.57E-04 | 2.40E-05 | 1.30E-05 |
| 1825 | 256915.1 | 4084335 | 1.52E-04 | 2.32E-05 | 1.26E-05 |
| 1826 | 256955.3 | 4084316 | 1.54E-04 | 2.35E-05 | 1.27E-05 |

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| 1827 | 256995.6 | 4084298 | 1.57E-04 | 2.39E-05 | 1.29E-05 |
| 1828 | 257035.8 | 4084279 | 1.60E-04 | 2.43E-05 | 1.32E-05 |
| 1829 | 257076.1 | 4084260 | 1.63E-04 | 2.48E-05 | 1.34E-05 |
| 1830 | 257116.3 | 4084242 | 1.65E-04 | 2.51E-05 | 1.36E-05 |
| 1831 | 257156.6 | 4084223 | 1.65E-04 | 2.52E-05 | 1.36E-05 |
| 1832 | 257196.8 | 4084205 | 1.64E-04 | 2.51E-05 | 1.36E-05 |
| 1833 | 257237.1 | 4084186 | 1.62E-04 | 2.47E-05 | 1.34E-05 |
| 1834 | 257277.3 | 4084167 | 1.60E-04 | 2.43E-05 | 1.32E-05 |
| 1835 | 257317.5 | 4084149 | 1.57E-04 | 2.39E-05 | 1.29E-05 |
| 1836 | 257357.8 | 4084130 | 1.55E-04 | 2.36E-05 | 1.28E-05 |
| 1837 | 257398 | 4084112 | 1.54E-04 | 2.35E-05 | 1.27E-05 |
| 1838 | 257438.3 | 4084093 | 1.55E-04 | 2.36E-05 | 1.28E-05 |
| 1839 | 257478.5 | 4084074 | 1.56E-04 | 2.38E-05 | 1.29E-05 |
| 1840 | 256657.2 | 4085011 | 4.22E-04 | 6.44E-05 | 3.48E-05 |
| 1841 | 256658.8 | 4085055 | 4.54E-04 | 6.92E-05 | 3.75E-05 |
| 1842 | 256660.5 | 4085100 | 4.77E-04 | 7.26E-05 | 3.93E-05 |
| 1843 | 256662.1 | 4085144 | 4.92E-04 | 7.50E-05 | 4.06E-05 |
| 1844 | 256663 | 4085167 | 4.98E-04 | 7.59E-05 | 4.11E-05 |
| 1845 | 256464.2 | 4084975 | 3.22E-04 | 4.91E-05 | 2.66E-05 |
| 1846 | 256479.5 | 4084934 | 2.98E-04 | 4.55E-05 | 2.46E-05 |
| 1847 | 256494.9 | 4084892 | 2.76E-04 | 4.20E-05 | 2.27E-05 |
| 1848 | 256510.2 | 4084851 | 2.55E-04 | 3.89E-05 | 2.11E-05 |
| 1849 | 256525.6 | 4084809 | 2.39E-04 | 3.65E-05 | 1.97E-05 |
| 1850 | 256540.9 | 4084768 | 2.27E-04 | 3.45E-05 | 1.87E-05 |
| 1851 | 256556.3 | 4084726 | 2.16E-04 | 3.29E-05 | 1.78E-05 |
| 1852 | 256571.6 | 4084685 | 2.06E-04 | 3.14E-05 | 1.70E-05 |
| 1853 | 256587 | 4084643 | 1.95E-04 | 2.97E-05 | 1.61E-05 |
| 1854 | 256602.3 | 4084602 | 1.83E-04 | 2.78E-05 | 1.51E-05 |
| 1855 | 256617.7 | 4084561 | 1.70E-04 | 2.59E-05 | 1.40E-05 |
| 1856 | 256633 | 4084519 | 1.58E-04 | 2.40E-05 | 1.30E-05 |
| 1857 | 256648.4 | 4084478 | 1.47E-04 | 2.25E-05 | 1.22E-05 |
| 1858 | 256663.7 | 4084436 | 1.40E-04 | 2.13E-05 | 1.15E-05 |
| 1859 | 256679.1 | 4084395 | 1.34E-04 | 2.05E-05 | 1.11E-05 |
| 1860 | 256694.4 | 4084353 | 1.30E-04 | 1.99E-05 | 1.07E-05 |
| 1861 | 256709.8 | 4084312 | 1.27E-04 | 1.94E-05 | 1.05E-05 |
| 1862 | 256725.1 | 4084270 | 1.25E-04 | 1.90E-05 | 1.03E-05 |
| 1863 | 256740.5 | 4084229 | 1.22E-04 | 1.86E-05 | 1.01E-05 |
| 1864 | 256768.2 | 4084199 | 1.22E-04 | 1.85E-05 | 1.00E-05 |
| 1865 | 256808.3 | 4084180 | 1.23E-04 | 1.87E-05 | 1.01E-05 |
| 1866 | 256848.5 | 4084162 | 1.25E-04 | 1.90E-05 | 1.03E-05 |
| 1867 | 256888.6 | 4084143 | 1.26E-04 | 1.92E-05 | 1.04E-05 |
| 1868 | 256928.7 | 4084125 | 1.28E-04 | 1.95E-05 | 1.06E-05 |
| 1869 | 256968.8 | 4084106 | 1.29E-04 | 1.97E-05 | 1.07E-05 |
| 1870 | 257009 | 4084088 | 1.30E-04 | 1.98E-05 | 1.07E-05 |
| 1871 | 257049.1 | 4084069 | 1.29E-04 | 1.97E-05 | 1.07E-05 |
| 1872 | 257089.2 | 4084051 | 1.28E-04 | 1.95E-05 | 1.06E-05 |
| 1873 | 257129.3 | 4084032 | 1.26E-04 | 1.92E-05 | 1.04E-05 |

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| 1874 | 257169.5 | 4084014 | 1.24E-04 | 1.89E-05 | 1.02E-05 |
| 1875 | 257209.6 | 4083995 | 1.22E-04 | 1.86E-05 | 1.01E-05 |
| 1876 | 257249.7 | 4083977 | 1.21E-04 | 1.84E-05 | 9.96E-06 |
| 1877 | 257289.9 | 4083958 | 1.20E-04 | 1.82E-05 | 9.87E-06 |
| 1878 | 257330 | 4083939 | 1.19E-04 | 1.82E-05 | 9.82E-06 |
| 1879 | 257370.1 | 4083921 | 1.19E-04 | 1.82E-05 | 9.82E-06 |
| 1880 | 257410.2 | 4083902 | 1.19E-04 | 1.82E-05 | 9.85E-06 |
| 1881 | 257450.4 | 4083884 | 1.20E-04 | 1.83E-05 | 9.89E-06 |
| 1882 | 256457.3 | 4085018 | 3.45E-04 | 5.26E-05 | 2.85E-05 |
| 1883 | 256459 | 4085063 | 3.66E-04 | 5.57E-05 | 3.02E-05 |
| 1884 | 256460.6 | 4085107 | 3.79E-04 | 5.78E-05 | 3.13E-05 |
| 1885 | 256462.3 | 4085152 | 3.88E-04 | 5.91E-05 | 3.20E-05 |
| 1886 | 256463.9 | 4085196 | 3.95E-04 | 6.01E-05 | 3.25E-05 |
| 1887 | 256264.3 | 4084983 | 2.76E-04 | 4.20E-05 | 2.27E-05 |
| 1888 | 256279.6 | 4084941 | 2.58E-04 | 3.93E-05 | 2.13E-05 |
| 1889 | 256294.9 | 4084900 | 2.40E-04 | 3.66E-05 | 1.98E-05 |
| 1890 | 256310.2 | 4084858 | 2.24E-04 | 3.41E-05 | 1.84E-05 |
| 1891 | 256325.6 | 4084817 | 2.10E-04 | 3.19E-05 | 1.73E-05 |
| 1892 | 256340.9 | 4084776 | 1.99E-04 | 3.03E-05 | 1.64E-05 |
| 1893 | 256356.2 | 4084734 | 1.90E-04 | 2.89E-05 | 1.56E-05 |
| 1894 | 256371.5 | 4084693 | 1.83E-04 | 2.78E-05 | 1.50E-05 |
| 1895 | 256386.8 | 4084652 | 1.76E-04 | 2.68E-05 | 1.45E-05 |
| 1896 | 256402.2 | 4084610 | 1.68E-04 | 2.56E-05 | 1.39E-05 |
| 1897 | 256417.5 | 4084569 | 1.60E-04 | 2.44E-05 | 1.32E-05 |
| 1898 | 256432.8 | 4084527 | 1.50E-04 | 2.29E-05 | 1.24E-05 |
| 1899 | 256448.1 | 4084486 | 1.39E-04 | 2.12E-05 | 1.15E-05 |
| 1900 | 256463.4 | 4084445 | 1.29E-04 | 1.97E-05 | 1.07E-05 |
| 1901 | 256478.7 | 4084403 | 1.21E-04 | 1.84E-05 | 9.96E-06 |
| 1902 | 256494.1 | 4084362 | 1.14E-04 | 1.74E-05 | 9.41E-06 |
| 1903 | 256509.4 | 4084321 | 1.10E-04 | 1.67E-05 | 9.04E-06 |
| 1904 | 256524.7 | 4084279 | 1.07E-04 | 1.63E-05 | 8.82E-06 |
| 1905 | 256540 | 4084238 | 1.06E-04 | 1.61E-05 | 8.70E-06 |
| 1906 | 256555.3 | 4084197 | 1.05E-04 | 1.59E-05 | 8.62E-06 |
| 1907 | 256570.7 | 4084155 | 1.04E-04 | 1.58E-05 | 8.56E-06 |
| 1908 | 256586 | 4084114 | 1.03E-04 | 1.57E-05 | 8.50E-06 |
| 1909 | 256621.3 | 4084063 | 1.02E-04 | 1.56E-05 | 8.44E-06 |
| 1910 | 256661.4 | 4084045 | 1.03E-04 | 1.57E-05 | 8.51E-06 |
| 1911 | 256701.4 | 4084026 | 1.04E-04 | 1.58E-05 | 8.56E-06 |
| 1912 | 256741.5 | 4084008 | 1.04E-04 | 1.59E-05 | 8.61E-06 |
| 1913 | 256781.5 | 4083989 | 1.05E-04 | 1.60E-05 | 8.66E-06 |
| 1914 | 256821.6 | 4083971 | 1.06E-04 | 1.61E-05 | 8.70E-06 |
| 1915 | 256861.6 | 4083952 | 1.06E-04 | 1.61E-05 | 8.71E-06 |
| 1916 | 256901.6 | 4083934 | 1.06E-04 | 1.61E-05 | 8.70E-06 |
| 1917 | 256941.7 | 4083915 | 1.05E-04 | 1.60E-05 | 8.65E-06 |
| 1918 | 256981.7 | 4083897 | 1.04E-04 | 1.58E-05 | 8.57E-06 |
| 1919 | 257021.8 | 4083878 | 1.03E-04 | 1.57E-05 | 8.49E-06 |
| 1920 | 257061.8 | 4083860 | 1.02E-04 | 1.55E-05 | 8.40E-06 |

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| 1921 | 257101.9 | 4083841 | 1.01E-04 | 1.54E-05 | 8.33E-06 |
| 1922 | 257141.9 | 4083823 | 1.00E-04 | 1.53E-05 | 8.26E-06 |
| 1923 | 257182 | 4083804 | 9.93E-05 | 1.51E-05 | 8.18E-06 |
| 1924 | 257222 | 4083786 | 9.84E-05 | 1.50E-05 | 8.11E-06 |
| 1925 | 257262.1 | 4083767 | 9.77E-05 | 1.49E-05 | 8.05E-06 |
| 1926 | 257302.1 | 4083749 | 9.69E-05 | 1.48E-05 | 7.99E-06 |
| 1927 | 257342.2 | 4083730 | 9.62E-05 | 1.47E-05 | 7.93E-06 |
| 1928 | 257382.2 | 4083712 | 9.56E-05 | 1.46E-05 | 7.88E-06 |
| 1929 | 257422.2 | 4083693 | 9.51E-05 | 1.45E-05 | 7.84E-06 |
| 1930 | 257462.3 | 4083675 | 9.48E-05 | 1.44E-05 | 7.82E-06 |
| 1931 | 256257.5 | 4085025 | 2.92E-04 | 4.45E-05 | 2.41E-05 |
| 1932 | 256259.1 | 4085070 | 3.06E-04 | 4.67E-05 | 2.52E-05 |
| 1933 | 256260.8 | 4085115 | 3.15E-04 | 4.80E-05 | 2.60E-05 |
| 1934 | 256261.6 | 4085137 | 3.18E-04 | 4.84E-05 | 2.62E-05 |
| 1935 | 256263.2 | 4085181 | 3.22E-04 | 4.90E-05 | 2.65E-05 |
| 1936 | 256064.4 | 4084990 | 2.41E-04 | 3.68E-05 | 1.99E-05 |
| 1937 | 256079.7 | 4084949 | 2.28E-04 | 3.48E-05 | 1.88E-05 |
| 1938 | 256095 | 4084907 | 2.14E-04 | 3.26E-05 | 1.76E-05 |
| 1939 | 256110.3 | 4084866 | 2.00E-04 | 3.05E-05 | 1.65E-05 |
| 1940 | 256125.6 | 4084825 | 1.88E-04 | 2.87E-05 | 1.55E-05 |
| 1941 | 256140.9 | 4084783 | 1.78E-04 | 2.71E-05 | 1.47E-05 |
| 1942 | 256156.2 | 4084742 | 1.70E-04 | 2.59E-05 | 1.40E-05 |
| 1943 | 256171.5 | 4084701 | 1.64E-04 | 2.49E-05 | 1.35E-05 |
| 1944 | 256186.8 | 4084660 | 1.58E-04 | 2.41E-05 | 1.31E-05 |
| 1945 | 256202.1 | 4084618 | 1.54E-04 | 2.34E-05 | 1.27E-05 |
| 1946 | 256217.4 | 4084577 | 1.48E-04 | 2.26E-05 | 1.22E-05 |
| 1947 | 256232.7 | 4084536 | 1.42E-04 | 2.17E-05 | 1.17E-05 |
| 1948 | 256248 | 4084494 | 1.35E-04 | 2.06E-05 | 1.11E-05 |
| 1949 | 256263.3 | 4084453 | 1.27E-04 | 1.93E-05 | 1.04E-05 |
| 1950 | 256278.6 | 4084412 | 1.18E-04 | 1.80E-05 | 9.72E-06 |
| 1951 | 256293.9 | 4084370 | 1.09E-04 | 1.67E-05 | 9.01E-06 |
| 1952 | 256309.2 | 4084329 | 1.02E-04 | 1.55E-05 | 8.40E-06 |
| 1953 | 256324.4 | 4084288 | 9.62E-05 | 1.47E-05 | 7.93E-06 |
| 1954 | 256339.7 | 4084246 | 9.22E-05 | 1.40E-05 | 7.60E-06 |
| 1955 | 256355 | 4084205 | 8.98E-05 | 1.37E-05 | 7.40E-06 |
| 1956 | 256370.3 | 4084164 | 8.89E-05 | 1.35E-05 | 7.33E-06 |
| 1957 | 256385.6 | 4084123 | 8.89E-05 | 1.35E-05 | 7.33E-06 |
| 1958 | 256400.9 | 4084081 | 8.94E-05 | 1.36E-05 | 7.37E-06 |
| 1959 | 256416.2 | 4084040 | 8.97E-05 | 1.37E-05 | 7.39E-06 |
| 1960 | 256431.5 | 4083999 | 8.98E-05 | 1.37E-05 | 7.40E-06 |
| 1961 | 256446.8 | 4083957 | 8.92E-05 | 1.36E-05 | 7.35E-06 |
| 1962 | 256474.5 | 4083927 | 8.91E-05 | 1.36E-05 | 7.34E-06 |
| 1963 | 256514.4 | 4083909 | 8.94E-05 | 1.36E-05 | 7.37E-06 |
| 1964 | 256554.4 | 4083890 | 8.94E-05 | 1.36E-05 | 7.37E-06 |
| 1965 | 256594.4 | 4083872 | 8.91E-05 | 1.36E-05 | 7.34E-06 |
| 1966 | 256634.4 | 4083854 | 8.88E-05 | 1.35E-05 | 7.32E-06 |
| 1967 | 256674.4 | 4083835 | 8.86E-05 | 1.35E-05 | 7.30E-06 |

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| 1968 | 256714.4 | 4083817 | 8.85E-05 | 1.35E-05 | 7.29E-06 |
| 1969 | 256754.4 | 4083798 | 8.83E-05 | 1.35E-05 | 7.28E-06 |
| 1970 | 256794.4 | 4083780 | 8.80E-05 | 1.34E-05 | 7.26E-06 |
| 1971 | 256834.3 | 4083761 | 8.77E-05 | 1.34E-05 | 7.23E-06 |
| 1972 | 256874.3 | 4083743 | 8.76E-05 | 1.33E-05 | 7.22E-06 |
| 1973 | 256914.3 | 4083724 | 8.73E-05 | 1.33E-05 | 7.19E-06 |
| 1974 | 256954.3 | 4083706 | 8.70E-05 | 1.33E-05 | 7.17E-06 |
| 1975 | 256994.3 | 4083687 | 8.67E-05 | 1.32E-05 | 7.15E-06 |
| 1976 | 257034.3 | 4083669 | 8.62E-05 | 1.31E-05 | 7.11E-06 |
| 1977 | 257074.3 | 4083650 | 8.57E-05 | 1.30E-05 | 7.06E-06 |
| 1978 | 257114.2 | 4083632 | 8.49E-05 | 1.29E-05 | 7.00E-06 |
| 1979 | 257154.2 | 4083613 | 8.40E-05 | 1.28E-05 | 6.93E-06 |
| 1980 | 257194.2 | 4083595 | 8.28E-05 | 1.26E-05 | 6.83E-06 |
| 1981 | 257234.2 | 4083576 | 8.15E-05 | 1.24E-05 | 6.72E-06 |
| 1982 | 257274.2 | 4083558 | 8.02E-05 | 1.22E-05 | 6.61E-06 |
| 1983 | 257314.2 | 4083539 | 7.88E-05 | 1.20E-05 | 6.50E-06 |
| 1984 | 257354.2 | 4083521 | 7.78E-05 | 1.19E-05 | 6.41E-06 |
| 1985 | 257394.2 | 4083503 | 7.71E-05 | 1.17E-05 | 6.35E-06 |
| 1986 | 257434.1 | 4083484 | 7.68E-05 | 1.17E-05 | 6.33E-06 |
| 1987 | 256057.6 | 4085033 | 2.53E-04 | 3.86E-05 | 2.09E-05 |
| 1988 | 256059.2 | 4085077 | 2.63E-04 | 4.01E-05 | 2.17E-05 |
| 1989 | 256060.9 | 4085122 | 2.69E-04 | 4.10E-05 | 2.22E-05 |
| 1990 | 256062.5 | 4085167 | 2.72E-04 | 4.15E-05 | 2.24E-05 |
| 1991 | 256064.2 | 4085211 | 2.74E-04 | 4.18E-05 | 2.26E-05 |
| 1992 | 257564.3 | 4085181 | 3.31E-02 | 5.04E-03 | 2.72E-03 |
| 1993 | 257588.6 | 4085180 | 3.90E-02 | 5.94E-03 | 3.21E-03 |
| 1994 | 257612.8 | 4085178 | 4.25E-02 | 6.47E-03 | 3.50E-03 |
| 1995 | 257637.1 | 4085177 | 4.47E-02 | 6.80E-03 | 3.68E-03 |
| 1996 | 257661.4 | 4085176 | 4.61E-02 | 7.03E-03 | 3.80E-03 |
| 1997 | 257685.7 | 4085175 | 4.72E-02 | 7.18E-03 | 3.89E-03 |
| 1998 | 257710 | 4085174 | 4.79E-02 | 7.30E-03 | 3.95E-03 |
| 1999 | 257734.2 | 4085173 | 4.85E-02 | 7.38E-03 | 4.00E-03 |
| 2000 | 257758.5 | 4085172 | 4.89E-02 | 7.45E-03 | 4.03E-03 |
| 2001 | 257782.8 | 4085171 | 4.92E-02 | 7.49E-03 | 4.05E-03 |
| 2002 | 257807.1 | 4085170 | 4.94E-02 | 7.53E-03 | 4.07E-03 |
| 2003 | 257831.4 | 4085169 | 4.95E-02 | 7.55E-03 | 4.08E-03 |
| 2004 | 257855.7 | 4085168 | 4.96E-02 | 7.56E-03 | 4.09E-03 |
| 2005 | 257879.9 | 4085167 | 4.97E-02 | 7.57E-03 | 4.10E-03 |
| 2006 | 257904.2 | 4085166 | 4.97E-02 | 7.57E-03 | 4.09E-03 |
| 2007 | 257928.5 | 4085164 | 4.96E-02 | 7.56E-03 | 4.09E-03 |
| 2008 | 257952.8 | 4085163 | 4.95E-02 | 7.55E-03 | 4.08E-03 |
| 2009 | 257977.1 | 4085162 | 4.94E-02 | 7.52E-03 | 4.07E-03 |
| 2010 | 258001.3 | 4085161 | 4.92E-02 | 7.50E-03 | 4.06E-03 |
| 2011 | 258025.6 | 4085160 | 4.90E-02 | 7.46E-03 | 4.04E-03 |
| 2012 | 258049.9 | 4085159 | 4.87E-02 | 7.42E-03 | 4.01E-03 |
| 2013 | 258074.2 | 4085158 | 4.83E-02 | 7.36E-03 | 3.98E-03 |
| 2014 | 258098.5 | 4085157 | 4.70E-02 | 7.17E-03 | 3.88E-03 |

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|---|---|---|---|---|---|
| 2015 | 258122.8 | 4085156 | 4.64E-02 | 7.07E-03 | 3.83E-03 |
| 2016 | 258147 | 4085155 | 4.57E-02 | 6.96E-03 | 3.77E-03 |
| 2017 | 258171.3 | 4085154 | 4.48E-02 | 6.82E-03 | 3.69E-03 |
| 2018 | 258195.6 | 4085153 | 4.36E-02 | 6.64E-03 | 3.59E-03 |
| 2019 | 258219.9 | 4085152 | 4.21E-02 | 6.41E-03 | 3.47E-03 |
| 2020 | 258244.2 | 4085150 | 4.01E-02 | 6.11E-03 | 3.31E-03 |
| 2021 | 258268.4 | 4085149 | 3.75E-02 | 5.71E-03 | 3.09E-03 |
| 2022 | 258292.7 | 4085148 | 3.39E-02 | 5.16E-03 | 2.79E-03 |
| 2023 | 258317 | 4085147 | 2.89E-02 | 4.41E-03 | 2.38E-03 |
| 2024 | 258341.3 | 4085146 | 2.25E-02 | 3.43E-03 | 1.86E-03 |
| 2025 | 258365.6 | 4085145 | 1.62E-02 | 2.47E-03 | 1.34E-03 |
| 2026 | 257547.3 | 4085199 | 2.29E-02 | 3.49E-03 | 1.89E-03 |
| 2027 | 257589.7 | 4085204 | 2.66E-02 | 4.06E-03 | 2.19E-03 |
| 2028 | 257613.9 | 4085203 | 2.86E-02 | 4.36E-03 | 2.36E-03 |
| 2029 | 257638.2 | 4085202 | 3.00E-02 | 4.57E-03 | 2.47E-03 |
| 2030 | 257662.5 | 4085201 | 3.10E-02 | 4.72E-03 | 2.56E-03 |
| 2031 | 257686.8 | 4085200 | 3.17E-02 | 4.84E-03 | 2.62E-03 |
| 2032 | 257711.1 | 4085199 | 3.23E-02 | 4.92E-03 | 2.66E-03 |
| 2033 | 257735.4 | 4085198 | 3.28E-02 | 4.99E-03 | 2.70E-03 |
| 2034 | 257759.6 | 4085197 | 3.31E-02 | 5.04E-03 | 2.73E-03 |
| 2035 | 257783.9 | 4085196 | 3.33E-02 | 5.08E-03 | 2.75E-03 |
| 2036 | 257808.2 | 4085195 | 3.35E-02 | 5.11E-03 | 2.76E-03 |
| 2037 | 257832.5 | 4085194 | 3.37E-02 | 5.13E-03 | 2.78E-03 |
| 2038 | 257856.8 | 4085193 | 3.38E-02 | 5.14E-03 | 2.78E-03 |
| 2039 | 257881 | 4085192 | 3.38E-02 | 5.15E-03 | 2.79E-03 |
| 2040 | 257905.3 | 4085190 | 3.38E-02 | 5.15E-03 | 2.79E-03 |
| 2041 | 257929.6 | 4085189 | 3.38E-02 | 5.14E-03 | 2.78E-03 |
| 2042 | 257953.9 | 4085188 | 3.37E-02 | 5.13E-03 | 2.78E-03 |
| 2043 | 257978.2 | 4085187 | 3.31E-02 | 5.05E-03 | 2.73E-03 |
| 2044 | 258002.5 | 4085186 | 3.29E-02 | 5.02E-03 | 2.71E-03 |
| 2045 | 258026.7 | 4085185 | 3.27E-02 | 4.98E-03 | 2.70E-03 |
| 2046 | 258051 | 4085184 | 3.24E-02 | 4.94E-03 | 2.67E-03 |
| 2047 | 258075.3 | 4085183 | 3.20E-02 | 4.88E-03 | 2.64E-03 |
| 2048 | 258099.6 | 4085182 | 3.15E-02 | 4.81E-03 | 2.60E-03 |
| 2049 | 258123.9 | 4085181 | 3.10E-02 | 4.72E-03 | 2.55E-03 |
| 2050 | 258148.1 | 4085180 | 3.03E-02 | 4.61E-03 | 2.49E-03 |
| 2051 | 258172.4 | 4085179 | 2.94E-02 | 4.48E-03 | 2.42E-03 |
| 2052 | 258196.7 | 4085178 | 2.83E-02 | 4.31E-03 | 2.33E-03 |
| 2053 | 258221 | 4085177 | 2.69E-02 | 4.10E-03 | 2.22E-03 |
| 2054 | 258245.3 | 4085175 | 2.52E-02 | 3.84E-03 | 2.08E-03 |
| 2055 | 258269.6 | 4085174 | 2.31E-02 | 3.51E-03 | 1.90E-03 |
| 2056 | 258293.8 | 4085173 | 2.05E-02 | 3.12E-03 | 1.69E-03 |
| 2057 | 258318.1 | 4085172 | 1.74E-02 | 2.65E-03 | 1.43E-03 |
| 2058 | 258342.4 | 4085171 | 1.41E-02 | 2.15E-03 | 1.16E-03 |
| 2059 | 257548.4 | 4085224 | 1.82E-02 | 2.78E-03 | 1.50E-03 |
| 2060 | 257504.3 | 4085193 | 1.64E-02 | 2.49E-03 | 1.35E-03 |
| 2061 | 257590.8 | 4085229 | 2.02E-02 | 3.08E-03 | 1.67E-03 |

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|---|---|---|---|---|---|
| 2062 | 257615 | 4085228 | 2.15E-02 | 3.28E-03 | 1.77E-03 |
| 2063 | 257639.3 | 4085227 | 2.25E-02 | 3.42E-03 | 1.85E-03 |
| 2064 | 257663.6 | 4085226 | 2.32E-02 | 3.54E-03 | 1.91E-03 |
| 2065 | 257687.9 | 4085225 | 2.38E-02 | 3.62E-03 | 1.96E-03 |
| 2066 | 257712.2 | 4085224 | 2.42E-02 | 3.69E-03 | 2.00E-03 |
| 2067 | 257736.5 | 4085223 | 2.45E-02 | 3.74E-03 | 2.02E-03 |
| 2068 | 257760.7 | 4085222 | 2.48E-02 | 3.78E-03 | 2.04E-03 |
| 2069 | 257785 | 4085221 | 2.50E-02 | 3.81E-03 | 2.06E-03 |
| 2070 | 257809.3 | 4085220 | 2.51E-02 | 3.83E-03 | 2.07E-03 |
| 2071 | 257833.6 | 4085219 | 2.52E-02 | 3.85E-03 | 2.08E-03 |
| 2072 | 257857.9 | 4085218 | 2.53E-02 | 3.86E-03 | 2.09E-03 |
| 2073 | 257882.1 | 4085217 | 2.53E-02 | 3.86E-03 | 2.09E-03 |
| 2074 | 257906.4 | 4085215 | 2.52E-02 | 3.84E-03 | 2.08E-03 |
| 2075 | 257930.7 | 4085214 | 2.50E-02 | 3.81E-03 | 2.06E-03 |
| 2076 | 257955 | 4085213 | 2.49E-02 | 3.79E-03 | 2.05E-03 |
| 2077 | 257979.3 | 4085212 | 2.47E-02 | 3.77E-03 | 2.04E-03 |
| 2078 | 258003.6 | 4085211 | 2.45E-02 | 3.74E-03 | 2.02E-03 |
| 2079 | 258027.8 | 4085210 | 2.43E-02 | 3.70E-03 | 2.00E-03 |
| 2080 | 258052.1 | 4085209 | 2.40E-02 | 3.65E-03 | 1.98E-03 |
| 2081 | 258076.4 | 4085208 | 2.36E-02 | 3.60E-03 | 1.95E-03 |
| 2082 | 258100.7 | 4085207 | 2.31E-02 | 3.52E-03 | 1.91E-03 |
| 2083 | 258125 | 4085206 | 2.26E-02 | 3.44E-03 | 1.86E-03 |
| 2084 | 258149.2 | 4085205 | 2.19E-02 | 3.34E-03 | 1.80E-03 |
| 2085 | 258173.5 | 4085204 | 2.11E-02 | 3.21E-03 | 1.74E-03 |
| 2086 | 258197.8 | 4085203 | 2.01E-02 | 3.06E-03 | 1.66E-03 |
| 2087 | 258222.1 | 4085201 | 1.89E-02 | 2.88E-03 | 1.56E-03 |
| 2088 | 258246.4 | 4085200 | 1.75E-02 | 2.67E-03 | 1.44E-03 |
| 2089 | 258270.7 | 4085199 | 1.59E-02 | 2.42E-03 | 1.31E-03 |
| 2090 | 258294.9 | 4085198 | 1.41E-02 | 2.14E-03 | 1.16E-03 |
| 2091 | 258319.2 | 4085197 | 1.21E-02 | 1.85E-03 | 9.98E-04 |
| 2092 | 258343.5 | 4085196 | 1.02E-02 | 1.55E-03 | 8.38E-04 |
| 2093 | 258367.8 | 4085195 | 8.43E-03 | 1.28E-03 | 6.95E-04 |
| 2094 | 257549.5 | 4085249 | 1.51E-02 | 2.29E-03 | 1.24E-03 |
| 2095 | 257513.4 | 4085236 | 1.39E-02 | 2.12E-03 | 1.15E-03 |
| 2096 | 257487.3 | 4085212 | 1.32E-02 | 2.00E-03 | 1.08E-03 |
| 2097 | 257471.3 | 4085177 | 1.23E-02 | 1.87E-03 | 1.01E-03 |
| 2098 | 257591.9 | 4085254 | 1.63E-02 | 2.48E-03 | 1.34E-03 |
| 2099 | 257616.2 | 4085253 | 1.72E-02 | 2.62E-03 | 1.42E-03 |
| 2100 | 257640.4 | 4085252 | 1.79E-02 | 2.72E-03 | 1.47E-03 |
| 2101 | 257664.7 | 4085251 | 1.84E-02 | 2.81E-03 | 1.52E-03 |
| 2102 | 257689 | 4085250 | 1.89E-02 | 2.87E-03 | 1.55E-03 |
| 2103 | 257713.3 | 4085249 | 1.92E-02 | 2.92E-03 | 1.58E-03 |
| 2104 | 257737.6 | 4085248 | 1.95E-02 | 2.96E-03 | 1.60E-03 |
| 2105 | 257761.8 | 4085247 | 1.97E-02 | 2.99E-03 | 1.62E-03 |
| 2106 | 257786.1 | 4085246 | 1.98E-02 | 3.02E-03 | 1.63E-03 |
| 2107 | 257810.4 | 4085245 | 1.99E-02 | 3.03E-03 | 1.64E-03 |
| 2108 | 257834.7 | 4085244 | 2.00E-02 | 3.04E-03 | 1.65E-03 |

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| 2109 | 257859 | 4085243 | 2.00E-02 | 3.05E-03 | 1.65E-03 |
| 2110 | 257883.3 | 4085242 | 1.99E-02 | 3.03E-03 | 1.64E-03 |
| 2111 | 257907.5 | 4085240 | 1.98E-02 | 3.01E-03 | 1.63E-03 |
| 2112 | 257931.8 | 4085239 | 1.97E-02 | 3.00E-03 | 1.62E-03 |
| 2113 | 257956.1 | 4085238 | 1.96E-02 | 2.98E-03 | 1.61E-03 |
| 2114 | 257980.4 | 4085237 | 1.94E-02 | 2.96E-03 | 1.60E-03 |
| 2115 | 258004.7 | 4085236 | 1.92E-02 | 2.93E-03 | 1.58E-03 |
| 2116 | 258028.9 | 4085235 | 1.89E-02 | 2.89E-03 | 1.56E-03 |
| 2117 | 258053.2 | 4085234 | 1.86E-02 | 2.84E-03 | 1.54E-03 |
| 2118 | 258077.5 | 4085233 | 1.83E-02 | 2.78E-03 | 1.50E-03 |
| 2119 | 258101.8 | 4085232 | 1.78E-02 | 2.71E-03 | 1.47E-03 |
| 2120 | 258126.1 | 4085231 | 1.73E-02 | 2.63E-03 | 1.42E-03 |
| 2121 | 258150.4 | 4085230 | 1.67E-02 | 2.54E-03 | 1.37E-03 |
| 2122 | 258174.6 | 4085229 | 1.59E-02 | 2.43E-03 | 1.31E-03 |
| 2123 | 258198.9 | 4085228 | 1.51E-02 | 2.30E-03 | 1.24E-03 |
| 2124 | 258223.2 | 4085226 | 1.41E-02 | 2.15E-03 | 1.16E-03 |
| 2125 | 258247.5 | 4085225 | 1.30E-02 | 1.98E-03 | 1.07E-03 |
| 2126 | 258271.8 | 4085224 | 1.18E-02 | 1.80E-03 | 9.71E-04 |
| 2127 | 258296 | 4085223 | 1.05E-02 | 1.60E-03 | 8.63E-04 |
| 2128 | 258320.3 | 4085222 | 9.15E-03 | 1.39E-03 | 7.54E-04 |
| 2129 | 258344.6 | 4085221 | 7.87E-03 | 1.20E-03 | 6.49E-04 |
| 2130 | 257548.1 | 4085298 | 1.10E-02 | 1.68E-03 | 9.06E-04 |
| 2131 | 257526.5 | 4085290 | 1.08E-02 | 1.65E-03 | 8.90E-04 |
| 2132 | 257504.8 | 4085282 | 1.04E-02 | 1.59E-03 | 8.61E-04 |
| 2133 | 257483.2 | 4085274 | 9.90E-03 | 1.51E-03 | 8.16E-04 |
| 2134 | 257451.9 | 4085245 | 9.31E-03 | 1.42E-03 | 7.68E-04 |
| 2135 | 257442.2 | 4085224 | 9.14E-03 | 1.39E-03 | 7.53E-04 |
| 2136 | 257432.6 | 4085203 | 8.65E-03 | 1.32E-03 | 7.13E-04 |
| 2137 | 257422.9 | 4085182 | 7.92E-03 | 1.21E-03 | 6.53E-04 |
| 2138 | 257569.8 | 4085305 | 1.10E-02 | 1.68E-03 | 9.10E-04 |
| 2139 | 257594.1 | 4085304 | 1.16E-02 | 1.77E-03 | 9.57E-04 |
| 2140 | 257618.4 | 4085303 | 1.21E-02 | 1.84E-03 | 9.96E-04 |
| 2141 | 257642.6 | 4085302 | 1.25E-02 | 1.90E-03 | 1.03E-03 |
| 2142 | 257666.9 | 4085301 | 1.28E-02 | 1.95E-03 | 1.05E-03 |
| 2143 | 257691.2 | 4085300 | 1.31E-02 | 1.99E-03 | 1.08E-03 |
| 2144 | 257715.5 | 4085299 | 1.33E-02 | 2.02E-03 | 1.09E-03 |
| 2145 | 257739.8 | 4085298 | 1.34E-02 | 2.04E-03 | 1.11E-03 |
| 2146 | 257764.1 | 4085297 | 1.35E-02 | 2.06E-03 | 1.12E-03 |
| 2147 | 257788.3 | 4085296 | 1.36E-02 | 2.07E-03 | 1.12E-03 |
| 2148 | 257812.6 | 4085295 | 1.36E-02 | 2.07E-03 | 1.12E-03 |
| 2149 | 257836.9 | 4085294 | 1.36E-02 | 2.07E-03 | 1.12E-03 |
| 2150 | 257861.2 | 4085293 | 1.35E-02 | 2.06E-03 | 1.11E-03 |
| 2151 | 257885.5 | 4085291 | 1.35E-02 | 2.05E-03 | 1.11E-03 |
| 2152 | 257909.7 | 4085290 | 1.34E-02 | 2.04E-03 | 1.10E-03 |
| 2153 | 257934 | 4085289 | 1.33E-02 | 2.02E-03 | 1.09E-03 |
| 2154 | 257958.3 | 4085288 | 1.31E-02 | 2.00E-03 | 1.08E-03 |
| 2155 | 257982.6 | 4085287 | 1.29E-02 | 1.97E-03 | 1.07E-03 |

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| 2156 | 258006.9 | 4085286 | 1.27E-02 | 1.94E-03 | 1.05E-03 |
| 2157 | 258031.2 | 4085285 | 1.25E-02 | 1.90E-03 | 1.03E-03 |
| 2158 | 258055.4 | 4085284 | 1.22E-02 | 1.86E-03 | 1.00E-03 |
| 2159 | 258079.7 | 4085283 | 1.19E-02 | 1.81E-03 | 9.77E-04 |
| 2160 | 258104 | 4085282 | 1.15E-02 | 1.75E-03 | 9.46E-04 |
| 2161 | 258128.3 | 4085281 | 1.10E-02 | 1.68E-03 | 9.11E-04 |
| 2162 | 258152.6 | 4085280 | 1.06E-02 | 1.61E-03 | 8.71E-04 |
| 2163 | 258176.8 | 4085279 | 1.00E-02 | 1.53E-03 | 8.27E-04 |
| 2164 | 258201.1 | 4085277 | 9.43E-03 | 1.44E-03 | 7.78E-04 |
| 2165 | 258225.4 | 4085276 | 8.78E-03 | 1.34E-03 | 7.24E-04 |
| 2166 | 258249.7 | 4085275 | 8.09E-03 | 1.23E-03 | 6.67E-04 |
| 2167 | 258274 | 4085274 | 7.38E-03 | 1.12E-03 | 6.08E-04 |
| 2168 | 258298.3 | 4085273 | 6.66E-03 | 1.01E-03 | 5.49E-04 |
| 2169 | 258322.5 | 4085272 | 5.96E-03 | 9.08E-04 | 4.91E-04 |
| 2170 | 258346.8 | 4085271 | 5.29E-03 | 8.06E-04 | 4.36E-04 |
| 2171 | 258371.1 | 4085270 | 4.68E-03 | 7.13E-04 | 3.86E-04 |
| 2172 | 257551.4 | 4085348 | 8.54E-03 | 1.30E-03 | 7.04E-04 |
| 2173 | 257510.1 | 4085333 | 8.36E-03 | 1.27E-03 | 6.89E-04 |
| 2174 | 257468.9 | 4085318 | 7.87E-03 | 1.20E-03 | 6.49E-04 |
| 2175 | 257418.4 | 4085283 | 7.11E-03 | 1.08E-03 | 5.86E-04 |
| 2176 | 257400 | 4085243 | 6.80E-03 | 1.04E-03 | 5.61E-04 |
| 2177 | 257381.7 | 4085203 | 5.92E-03 | 9.02E-04 | 4.88E-04 |
| 2178 | 257596.3 | 4085354 | 8.85E-03 | 1.35E-03 | 7.29E-04 |
| 2179 | 257620.6 | 4085353 | 9.12E-03 | 1.39E-03 | 7.52E-04 |
| 2180 | 257644.9 | 4085352 | 9.35E-03 | 1.42E-03 | 7.71E-04 |
| 2181 | 257669.1 | 4085351 | 9.54E-03 | 1.45E-03 | 7.86E-04 |
| 2182 | 257693.4 | 4085350 | 9.69E-03 | 1.48E-03 | 7.99E-04 |
| 2183 | 257717.7 | 4085349 | 9.82E-03 | 1.50E-03 | 8.09E-04 |
| 2184 | 257742 | 4085348 | 9.88E-03 | 1.51E-03 | 8.14E-04 |
| 2185 | 257766.3 | 4085347 | 9.89E-03 | 1.51E-03 | 8.15E-04 |
| 2186 | 257790.6 | 4085346 | 9.91E-03 | 1.51E-03 | 8.17E-04 |
| 2187 | 257814.8 | 4085345 | 9.91E-03 | 1.51E-03 | 8.17E-04 |
| 2188 | 257839.1 | 4085344 | 9.88E-03 | 1.50E-03 | 8.14E-04 |
| 2189 | 257863.4 | 4085343 | 9.82E-03 | 1.50E-03 | 8.09E-04 |
| 2190 | 257887.7 | 4085341 | 9.74E-03 | 1.48E-03 | 8.03E-04 |
| 2191 | 257912 | 4085340 | 9.64E-03 | 1.47E-03 | 7.95E-04 |
| 2192 | 257936.2 | 4085339 | 9.52E-03 | 1.45E-03 | 7.84E-04 |
| 2193 | 257960.5 | 4085338 | 9.37E-03 | 1.43E-03 | 7.72E-04 |
| 2194 | 257984.8 | 4085337 | 9.20E-03 | 1.40E-03 | 7.58E-04 |
| 2195 | 258009.1 | 4085336 | 9.00E-03 | 1.37E-03 | 7.42E-04 |
| 2196 | 258033.4 | 4085335 | 8.78E-03 | 1.34E-03 | 7.24E-04 |
| 2197 | 258057.7 | 4085334 | 8.54E-03 | 1.30E-03 | 7.04E-04 |
| 2198 | 258081.9 | 4085333 | 8.27E-03 | 1.26E-03 | 6.82E-04 |
| 2199 | 258106.2 | 4085332 | 7.97E-03 | 1.21E-03 | 6.57E-04 |
| 2200 | 258130.5 | 4085331 | 7.64E-03 | 1.16E-03 | 6.30E-04 |
| 2201 | 258154.8 | 4085330 | 7.28E-03 | 1.11E-03 | 6.00E-04 |
| 2202 | 258179.1 | 4085329 | 6.89E-03 | 1.05E-03 | 5.68E-04 |

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| 2203 | 258203.3 | 4085327 | 6.47E-03 | 9.85E-04 | 5.33E-04 |
| 2204 | 258227.6 | 4085326 | 6.03E-03 | 9.18E-04 | 4.97E-04 |
| 2205 | 258251.9 | 4085325 | 5.58E-03 | 8.50E-04 | 4.60E-04 |
| 2206 | 258276.2 | 4085324 | 5.14E-03 | 7.83E-04 | 4.24E-04 |
| 2207 | 258300.5 | 4085323 | 4.71E-03 | 7.17E-04 | 3.88E-04 |
| 2208 | 258324.8 | 4085322 | 4.28E-03 | 6.52E-04 | 3.53E-04 |
| 2209 | 258349 | 4085321 | 3.87E-03 | 5.90E-04 | 3.19E-04 |
| 2210 | 258373.3 | 4085320 | 3.50E-03 | 5.33E-04 | 2.88E-04 |
| 2211 | 257551.7 | 4085397 | 6.85E-03 | 1.04E-03 | 5.65E-04 |
| 2212 | 257529.1 | 4085389 | 6.85E-03 | 1.04E-03 | 5.65E-04 |
| 2213 | 257506.5 | 4085381 | 6.80E-03 | 1.04E-03 | 5.61E-04 |
| 2214 | 257484 | 4085372 | 6.70E-03 | 1.02E-03 | 5.52E-04 |
| 2215 | 257461.4 | 4085364 | 6.53E-03 | 9.95E-04 | 5.38E-04 |
| 2216 | 257438.8 | 4085356 | 6.30E-03 | 9.59E-04 | 5.19E-04 |
| 2217 | 257416.3 | 4085348 | 6.00E-03 | 9.14E-04 | 4.95E-04 |
| 2218 | 257383.7 | 4085318 | 5.69E-03 | 8.67E-04 | 4.69E-04 |
| 2219 | 257373.6 | 4085296 | 5.63E-03 | 8.58E-04 | 4.64E-04 |
| 2220 | 257363.6 | 4085274 | 5.46E-03 | 8.32E-04 | 4.50E-04 |
| 2221 | 257353.5 | 4085252 | 5.17E-03 | 7.88E-04 | 4.26E-04 |
| 2222 | 257343.5 | 4085230 | 4.78E-03 | 7.28E-04 | 3.94E-04 |
| 2223 | 257333.4 | 4085209 | 4.33E-03 | 6.59E-04 | 3.57E-04 |
| 2224 | 257323.4 | 4085187 | 3.85E-03 | 5.87E-04 | 3.18E-04 |
| 2225 | 257574.2 | 4085405 | 6.81E-03 | 1.04E-03 | 5.61E-04 |
| 2226 | 257598.5 | 4085404 | 7.00E-03 | 1.07E-03 | 5.77E-04 |
| 2227 | 257622.8 | 4085403 | 7.17E-03 | 1.09E-03 | 5.91E-04 |
| 2228 | 257647.1 | 4085402 | 7.30E-03 | 1.11E-03 | 6.02E-04 |
| 2229 | 257671.4 | 4085401 | 7.41E-03 | 1.13E-03 | 6.11E-04 |
| 2230 | 257695.6 | 4085400 | 7.48E-03 | 1.14E-03 | 6.17E-04 |
| 2231 | 257719.9 | 4085399 | 7.50E-03 | 1.14E-03 | 6.19E-04 |
| 2232 | 257744.2 | 4085398 | 7.54E-03 | 1.15E-03 | 6.22E-04 |
| 2233 | 257768.5 | 4085397 | 7.56E-03 | 1.15E-03 | 6.23E-04 |
| 2234 | 257792.8 | 4085396 | 7.56E-03 | 1.15E-03 | 6.23E-04 |
| 2235 | 257817 | 4085395 | 7.53E-03 | 1.15E-03 | 6.21E-04 |
| 2236 | 257841.3 | 4085394 | 7.48E-03 | 1.14E-03 | 6.17E-04 |
| 2237 | 257865.6 | 4085392 | 7.42E-03 | 1.13E-03 | 6.11E-04 |
| 2238 | 257889.9 | 4085391 | 7.33E-03 | 1.12E-03 | 6.04E-04 |
| 2239 | 257914.2 | 4085390 | 7.23E-03 | 1.10E-03 | 5.96E-04 |
| 2240 | 257938.5 | 4085389 | 7.11E-03 | 1.08E-03 | 5.86E-04 |
| 2241 | 257962.7 | 4085388 | 6.98E-03 | 1.06E-03 | 5.75E-04 |
| 2242 | 257987 | 4085387 | 6.83E-03 | 1.04E-03 | 5.63E-04 |
| 2243 | 258011.3 | 4085386 | 6.66E-03 | 1.02E-03 | 5.49E-04 |
| 2244 | 258035.6 | 4085385 | 6.48E-03 | 9.88E-04 | 5.34E-04 |
| 2245 | 258059.9 | 4085384 | 6.29E-03 | 9.57E-04 | 5.18E-04 |
| 2246 | 258084.1 | 4085383 | 6.07E-03 | 9.25E-04 | 5.00E-04 |
| 2247 | 258108.4 | 4085382 | 5.83E-03 | 8.89E-04 | 4.81E-04 |
| 2248 | 258132.7 | 4085381 | 5.58E-03 | 8.50E-04 | 4.60E-04 |
| 2249 | 258157 | 4085380 | 5.30E-03 | 8.08E-04 | 4.37E-04 |

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| 2250 | 258181.3 | 4085378 | 5.01E-03 | 7.63E-04 | 4.13E-04 |
| 2251 | 258205.6 | 4085377 | 4.71E-03 | 7.18E-04 | 3.88E-04 |
| 2252 | 258229.8 | 4085376 | 4.41E-03 | 6.72E-04 | 3.64E-04 |
| 2253 | 258254.1 | 4085375 | 4.12E-03 | 6.27E-04 | 3.39E-04 |
| 2254 | 258278.4 | 4085374 | 3.83E-03 | 5.83E-04 | 3.16E-04 |
| 2255 | 258302.7 | 4085373 | 3.54E-03 | 5.39E-04 | 2.92E-04 |
| 2256 | 258327 | 4085372 | 3.26E-03 | 4.96E-04 | 2.68E-04 |
| 2257 | 258351.2 | 4085371 | 2.99E-03 | 4.55E-04 | 2.46E-04 |
| 2258 | 258375.5 | 4085370 | 2.74E-03 | 4.17E-04 | 2.26E-04 |
| 2259 | 257554.8 | 4085447 | 5.62E-03 | 8.56E-04 | 4.63E-04 |
| 2260 | 257533.1 | 4085439 | 5.65E-03 | 8.61E-04 | 4.66E-04 |
| 2261 | 257511.5 | 4085432 | 5.66E-03 | 8.62E-04 | 4.66E-04 |
| 2262 | 257489.8 | 4085424 | 5.63E-03 | 8.58E-04 | 4.64E-04 |
| 2263 | 257468.1 | 4085416 | 5.57E-03 | 8.49E-04 | 4.59E-04 |
| 2264 | 257446.5 | 4085408 | 5.47E-03 | 8.34E-04 | 4.51E-04 |
| 2265 | 257424.8 | 4085400 | 5.33E-03 | 8.13E-04 | 4.40E-04 |
| 2266 | 257403.2 | 4085392 | 5.15E-03 | 7.85E-04 | 4.25E-04 |
| 2267 | 257381.5 | 4085384 | 4.94E-03 | 7.52E-04 | 4.07E-04 |
| 2268 | 257350.2 | 4085355 | 4.72E-03 | 7.18E-04 | 3.89E-04 |
| 2269 | 257340.5 | 4085334 | 4.69E-03 | 7.14E-04 | 3.86E-04 |
| 2270 | 257330.9 | 4085313 | 4.59E-03 | 7.00E-04 | 3.78E-04 |
| 2271 | 257321.2 | 4085292 | 4.42E-03 | 6.74E-04 | 3.65E-04 |
| 2272 | 257311.6 | 4085271 | 4.18E-03 | 6.37E-04 | 3.44E-04 |
| 2273 | 257302 | 4085251 | 3.88E-03 | 5.90E-04 | 3.19E-04 |
| 2274 | 257292.3 | 4085230 | 3.53E-03 | 5.38E-04 | 2.91E-04 |
| 2275 | 257282.7 | 4085209 | 3.18E-03 | 4.85E-04 | 2.62E-04 |
| 2276 | 257273 | 4085188 | 2.84E-03 | 4.33E-04 | 2.34E-04 |
| 2277 | 257576.4 | 4085455 | 5.56E-03 | 8.47E-04 | 4.58E-04 |
| 2278 | 257600.7 | 4085454 | 5.68E-03 | 8.65E-04 | 4.68E-04 |
| 2279 | 257625 | 4085453 | 5.78E-03 | 8.80E-04 | 4.76E-04 |
| 2280 | 257649.3 | 4085452 | 5.85E-03 | 8.92E-04 | 4.82E-04 |
| 2281 | 257673.6 | 4085451 | 5.88E-03 | 8.96E-04 | 4.85E-04 |
| 2282 | 257697.8 | 4085450 | 5.91E-03 | 9.00E-04 | 4.87E-04 |
| 2283 | 257722.1 | 4085449 | 5.93E-03 | 9.04E-04 | 4.89E-04 |
| 2284 | 257746.4 | 4085448 | 5.94E-03 | 9.06E-04 | 4.90E-04 |
| 2285 | 257770.7 | 4085447 | 5.94E-03 | 9.05E-04 | 4.90E-04 |
| 2286 | 257795 | 4085446 | 5.92E-03 | 9.02E-04 | 4.88E-04 |
| 2287 | 257819.3 | 4085445 | 5.88E-03 | 8.96E-04 | 4.85E-04 |
| 2288 | 257843.5 | 4085443 | 5.83E-03 | 8.89E-04 | 4.81E-04 |
| 2289 | 257867.8 | 4085442 | 5.77E-03 | 8.79E-04 | 4.75E-04 |
| 2290 | 257892.1 | 4085441 | 5.69E-03 | 8.67E-04 | 4.69E-04 |
| 2291 | 257916.4 | 4085440 | 5.60E-03 | 8.53E-04 | 4.61E-04 |
| 2292 | 257940.7 | 4085439 | 5.50E-03 | 8.37E-04 | 4.53E-04 |
| 2293 | 257964.9 | 4085438 | 5.38E-03 | 8.20E-04 | 4.44E-04 |
| 2294 | 257989.2 | 4085437 | 5.26E-03 | 8.01E-04 | 4.33E-04 |
| 2295 | 258013.5 | 4085436 | 5.12E-03 | 7.80E-04 | 4.22E-04 |
| 2296 | 258037.8 | 4085435 | 4.97E-03 | 7.58E-04 | 4.10E-04 |

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| 2297 | 258062.1 | 4085434 | 4.81E-03 | 7.33E-04 | 3.96E-04 |
| 2298 | 258086.4 | 4085433 | 4.63E-03 | 7.06E-04 | 3.82E-04 |
| 2299 | 258110.6 | 4085432 | 4.44E-03 | 6.77E-04 | 3.66E-04 |
| 2300 | 258134.9 | 4085431 | 4.24E-03 | 6.46E-04 | 3.49E-04 |
| 2301 | 258159.2 | 4085430 | 4.03E-03 | 6.14E-04 | 3.32E-04 |
| 2302 | 258183.5 | 4085428 | 3.81E-03 | 5.81E-04 | 3.14E-04 |
| 2303 | 258207.8 | 4085427 | 3.60E-03 | 5.49E-04 | 2.97E-04 |
| 2304 | 258232 | 4085426 | 3.39E-03 | 5.17E-04 | 2.80E-04 |
| 2305 | 258256.3 | 4085425 | 3.19E-03 | 4.86E-04 | 2.63E-04 |
| 2306 | 258280.6 | 4085424 | 2.98E-03 | 4.54E-04 | 2.46E-04 |
| 2307 | 258304.9 | 4085423 | 2.78E-03 | 4.23E-04 | 2.29E-04 |
| 2308 | 258329.2 | 4085422 | 2.58E-03 | 3.93E-04 | 2.13E-04 |
| 2309 | 258353.5 | 4085421 | 2.39E-03 | 3.65E-04 | 1.97E-04 |
| 2310 | 258377.7 | 4085420 | 2.22E-03 | 3.38E-04 | 1.83E-04 |
| 2311 | 257558.6 | 4085547 | 3.93E-03 | 5.98E-04 | 3.24E-04 |
| 2312 | 257536.4 | 4085539 | 4.00E-03 | 6.09E-04 | 3.30E-04 |
| 2313 | 257514.2 | 4085531 | 4.04E-03 | 6.16E-04 | 3.33E-04 |
| 2314 | 257492 | 4085523 | 4.07E-03 | 6.20E-04 | 3.35E-04 |
| 2315 | 257469.8 | 4085515 | 4.08E-03 | 6.22E-04 | 3.36E-04 |
| 2316 | 257447.6 | 4085507 | 4.08E-03 | 6.21E-04 | 3.36E-04 |
| 2317 | 257425.3 | 4085498 | 4.05E-03 | 6.18E-04 | 3.34E-04 |
| 2318 | 257403.1 | 4085490 | 4.01E-03 | 6.11E-04 | 3.31E-04 |
| 2319 | 257380.9 | 4085482 | 3.94E-03 | 6.00E-04 | 3.25E-04 |
| 2320 | 257358.7 | 4085474 | 3.84E-03 | 5.86E-04 | 3.17E-04 |
| 2321 | 257336.5 | 4085466 | 3.73E-03 | 5.68E-04 | 3.07E-04 |
| 2322 | 257314.3 | 4085458 | 3.60E-03 | 5.48E-04 | 2.97E-04 |
| 2323 | 257282.2 | 4085428 | 3.48E-03 | 5.29E-04 | 2.86E-04 |
| 2324 | 257272.3 | 4085407 | 3.47E-03 | 5.28E-04 | 2.86E-04 |
| 2325 | 257262.4 | 4085385 | 3.42E-03 | 5.21E-04 | 2.82E-04 |
| 2326 | 257252.5 | 4085364 | 3.34E-03 | 5.09E-04 | 2.75E-04 |
| 2327 | 257242.6 | 4085342 | 3.21E-03 | 4.89E-04 | 2.65E-04 |
| 2328 | 257232.7 | 4085321 | 3.04E-03 | 4.63E-04 | 2.51E-04 |
| 2329 | 257222.8 | 4085299 | 2.84E-03 | 4.32E-04 | 2.34E-04 |
| 2330 | 257212.9 | 4085278 | 2.61E-03 | 3.97E-04 | 2.15E-04 |
| 2331 | 257203 | 4085256 | 2.37E-03 | 3.61E-04 | 1.95E-04 |
| 2332 | 257193.1 | 4085235 | 2.14E-03 | 3.26E-04 | 1.77E-04 |
| 2333 | 257183.2 | 4085213 | 1.93E-03 | 2.94E-04 | 1.59E-04 |
| 2334 | 257173.3 | 4085192 | 1.74E-03 | 2.65E-04 | 1.44E-04 |
| 2335 | 257580.9 | 4085555 | 3.86E-03 | 5.88E-04 | 3.18E-04 |
| 2336 | 257605.1 | 4085554 | 3.90E-03 | 5.94E-04 | 3.22E-04 |
| 2337 | 257629.4 | 4085553 | 3.93E-03 | 5.99E-04 | 3.24E-04 |
| 2338 | 257653.7 | 4085552 | 3.95E-03 | 6.02E-04 | 3.26E-04 |
| 2339 | 257678 | 4085551 | 3.96E-03 | 6.03E-04 | 3.26E-04 |
| 2340 | 257702.3 | 4085550 | 3.96E-03 | 6.03E-04 | 3.26E-04 |
| 2341 | 257726.6 | 4085549 | 3.94E-03 | 6.01E-04 | 3.25E-04 |
| 2342 | 257750.8 | 4085548 | 3.93E-03 | 5.98E-04 | 3.24E-04 |
| 2343 | 257775.1 | 4085547 | 3.91E-03 | 5.95E-04 | 3.22E-04 |

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| 2344 | 257799.4 | 4085546 | 3.88E-03 | 5.91E-04 | 3.20E-04 |
| 2345 | 257823.7 | 4085544 | 3.84E-03 | 5.86E-04 | 3.17E-04 |
| 2346 | 257848 | 4085543 | 3.80E-03 | 5.79E-04 | 3.13E-04 |
| 2347 | 257872.2 | 4085542 | 3.75E-03 | 5.72E-04 | 3.09E-04 |
| 2348 | 257896.5 | 4085541 | 3.70E-03 | 5.63E-04 | 3.05E-04 |
| 2349 | 257920.8 | 4085540 | 3.63E-03 | 5.53E-04 | 2.99E-04 |
| 2350 | 257945.1 | 4085539 | 3.56E-03 | 5.42E-04 | 2.93E-04 |
| 2351 | 257969.4 | 4085538 | 3.48E-03 | 5.29E-04 | 2.86E-04 |
| 2352 | 257993.7 | 4085537 | 3.39E-03 | 5.16E-04 | 2.79E-04 |
| 2353 | 258017.9 | 4085536 | 3.29E-03 | 5.01E-04 | 2.71E-04 |
| 2354 | 258042.2 | 4085535 | 3.18E-03 | 4.84E-04 | 2.62E-04 |
| 2355 | 258066.5 | 4085534 | 3.07E-03 | 4.67E-04 | 2.53E-04 |
| 2356 | 258090.8 | 4085533 | 2.94E-03 | 4.49E-04 | 2.43E-04 |
| 2357 | 258115.1 | 4085532 | 2.82E-03 | 4.30E-04 | 2.32E-04 |
| 2358 | 258139.3 | 4085530 | 2.70E-03 | 4.11E-04 | 2.22E-04 |
| 2359 | 258163.6 | 4085529 | 2.57E-03 | 3.92E-04 | 2.12E-04 |
| 2360 | 258187.9 | 4085528 | 2.46E-03 | 3.74E-04 | 2.02E-04 |
| 2361 | 258212.2 | 4085527 | 2.34E-03 | 3.56E-04 | 1.93E-04 |
| 2362 | 258236.5 | 4085526 | 2.22E-03 | 3.39E-04 | 1.83E-04 |
| 2363 | 258260.8 | 4085525 | 2.11E-03 | 3.21E-04 | 1.74E-04 |
| 2364 | 258285 | 4085524 | 1.99E-03 | 3.03E-04 | 1.64E-04 |
| 2365 | 258309.3 | 4085523 | 1.88E-03 | 2.86E-04 | 1.55E-04 |
| 2366 | 258333.6 | 4085522 | 1.76E-03 | 2.69E-04 | 1.45E-04 |
| 2367 | 258357.9 | 4085521 | 1.66E-03 | 2.53E-04 | 1.37E-04 |
| 2368 | 258382.2 | 4085520 | 1.56E-03 | 2.38E-04 | 1.29E-04 |
| 2369 | 257562.7 | 4085647 | 2.88E-03 | 4.39E-04 | 2.37E-04 |
| 2370 | 257540.2 | 4085639 | 2.93E-03 | 4.47E-04 | 2.42E-04 |
| 2371 | 257517.6 | 4085630 | 2.98E-03 | 4.54E-04 | 2.46E-04 |
| 2372 | 257495 | 4085622 | 3.02E-03 | 4.60E-04 | 2.49E-04 |
| 2373 | 257472.5 | 4085614 | 3.05E-03 | 4.65E-04 | 2.52E-04 |
| 2374 | 257449.9 | 4085606 | 3.08E-03 | 4.69E-04 | 2.54E-04 |
| 2375 | 257427.3 | 4085597 | 3.10E-03 | 4.73E-04 | 2.56E-04 |
| 2376 | 257404.8 | 4085589 | 3.11E-03 | 4.74E-04 | 2.57E-04 |
| 2377 | 257382.2 | 4085581 | 3.11E-03 | 4.74E-04 | 2.56E-04 |
| 2378 | 257359.7 | 4085573 | 3.09E-03 | 4.71E-04 | 2.55E-04 |
| 2379 | 257337.1 | 4085564 | 3.06E-03 | 4.66E-04 | 2.52E-04 |
| 2380 | 257314.5 | 4085556 | 3.01E-03 | 4.58E-04 | 2.48E-04 |
| 2381 | 257292 | 4085548 | 2.95E-03 | 4.49E-04 | 2.43E-04 |
| 2382 | 257269.4 | 4085540 | 2.87E-03 | 4.38E-04 | 2.37E-04 |
| 2383 | 257246.8 | 4085531 | 2.79E-03 | 4.26E-04 | 2.30E-04 |
| 2384 | 257214.2 | 4085501 | 2.73E-03 | 4.16E-04 | 2.25E-04 |
| 2385 | 257204.2 | 4085480 | 2.73E-03 | 4.16E-04 | 2.25E-04 |
| 2386 | 257194.1 | 4085458 | 2.71E-03 | 4.13E-04 | 2.23E-04 |
| 2387 | 257184.1 | 4085436 | 2.67E-03 | 4.07E-04 | 2.20E-04 |
| 2388 | 257174 | 4085414 | 2.60E-03 | 3.96E-04 | 2.14E-04 |
| 2389 | 257164 | 4085392 | 2.50E-03 | 3.81E-04 | 2.06E-04 |
| 2390 | 257153.9 | 4085370 | 2.37E-03 | 3.62E-04 | 1.96E-04 |

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| 2391 | 257143.9 | 4085349 | 2.22E-03 | 3.39E-04 | 1.83E-04 |
| 2392 | 257133.8 | 4085327 | 2.06E-03 | 3.14E-04 | 1.70E-04 |
| 2393 | 257123.8 | 4085305 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 2394 | 257113.7 | 4085283 | 1.72E-03 | 2.62E-04 | 1.42E-04 |
| 2395 | 257103.7 | 4085261 | 1.56E-03 | 2.38E-04 | 1.29E-04 |
| 2396 | 257093.7 | 4085240 | 1.42E-03 | 2.17E-04 | 1.17E-04 |
| 2397 | 257083.6 | 4085218 | 1.30E-03 | 1.99E-04 | 1.07E-04 |
| 2398 | 257073.6 | 4085196 | 1.20E-03 | 1.83E-04 | 9.92E-05 |
| 2399 | 257585.3 | 4085655 | 2.82E-03 | 4.30E-04 | 2.33E-04 |
| 2400 | 257609.6 | 4085654 | 2.84E-03 | 4.32E-04 | 2.34E-04 |
| 2401 | 257633.9 | 4085653 | 2.84E-03 | 4.33E-04 | 2.34E-04 |
| 2402 | 257658.1 | 4085652 | 2.84E-03 | 4.33E-04 | 2.34E-04 |
| 2403 | 257682.4 | 4085651 | 2.84E-03 | 4.32E-04 | 2.34E-04 |
| 2404 | 257706.7 | 4085650 | 2.82E-03 | 4.30E-04 | 2.33E-04 |
| 2405 | 257731 | 4085649 | 2.81E-03 | 4.28E-04 | 2.31E-04 |
| 2406 | 257755.3 | 4085648 | 2.79E-03 | 4.24E-04 | 2.30E-04 |
| 2407 | 257779.5 | 4085647 | 2.76E-03 | 4.21E-04 | 2.28E-04 |
| 2408 | 257803.8 | 4085645 | 2.73E-03 | 4.16E-04 | 2.25E-04 |
| 2409 | 257828.1 | 4085644 | 2.70E-03 | 4.12E-04 | 2.23E-04 |
| 2410 | 257852.4 | 4085643 | 2.67E-03 | 4.07E-04 | 2.20E-04 |
| 2411 | 257876.7 | 4085642 | 2.63E-03 | 4.00E-04 | 2.17E-04 |
| 2412 | 257901 | 4085641 | 2.58E-03 | 3.93E-04 | 2.13E-04 |
| 2413 | 257925.2 | 4085640 | 2.53E-03 | 3.86E-04 | 2.09E-04 |
| 2414 | 257949.5 | 4085639 | 2.48E-03 | 3.77E-04 | 2.04E-04 |
| 2415 | 257973.8 | 4085638 | 2.41E-03 | 3.68E-04 | 1.99E-04 |
| 2416 | 257998.1 | 4085637 | 2.35E-03 | 3.58E-04 | 1.94E-04 |
| 2417 | 258022.4 | 4085636 | 2.28E-03 | 3.47E-04 | 1.88E-04 |
| 2418 | 258046.6 | 4085635 | 2.20E-03 | 3.35E-04 | 1.81E-04 |
| 2419 | 258070.9 | 4085634 | 2.12E-03 | 3.23E-04 | 1.75E-04 |
| 2420 | 258095.2 | 4085633 | 2.04E-03 | 3.11E-04 | 1.68E-04 |
| 2421 | 258119.5 | 4085631 | 1.97E-03 | 3.00E-04 | 1.62E-04 |
| 2422 | 258143.8 | 4085630 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 2423 | 258168.1 | 4085629 | 1.82E-03 | 2.77E-04 | 1.50E-04 |
| 2424 | 258192.3 | 4085628 | 1.75E-03 | 2.66E-04 | 1.44E-04 |
| 2425 | 258216.6 | 4085627 | 1.66E-03 | 2.53E-04 | 1.37E-04 |
| 2426 | 258240.9 | 4085626 | 1.59E-03 | 2.42E-04 | 1.31E-04 |
| 2427 | 258265.2 | 4085625 | 1.51E-03 | 2.31E-04 | 1.25E-04 |
| 2428 | 258289.5 | 4085624 | 1.44E-03 | 2.19E-04 | 1.19E-04 |
| 2429 | 258313.7 | 4085623 | 1.37E-03 | 2.09E-04 | 1.13E-04 |
| 2430 | 258338 | 4085622 | 1.30E-03 | 1.98E-04 | 1.07E-04 |
| 2431 | 258362.3 | 4085621 | 1.23E-03 | 1.88E-04 | 1.02E-04 |
| 2432 | 258386.6 | 4085620 | 1.18E-03 | 1.79E-04 | 9.69E-05 |
| 2433 | 257566.9 | 4085747 | 2.20E-03 | 3.35E-04 | 1.81E-04 |
| 2434 | 257544.1 | 4085738 | 2.24E-03 | 3.41E-04 | 1.85E-04 |
| 2435 | 257521.3 | 4085730 | 2.28E-03 | 3.48E-04 | 1.88E-04 |
| 2436 | 257498.5 | 4085722 | 2.32E-03 | 3.53E-04 | 1.91E-04 |
| 2437 | 257475.7 | 4085713 | 2.35E-03 | 3.58E-04 | 1.94E-04 |

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| 2438 | 257452.9 | 4085705 | 2.38E-03 | 3.63E-04 | 1.96E-04 |
| 2439 | 257430.1 | 4085697 | 2.41E-03 | 3.67E-04 | 1.99E-04 |
| 2440 | 257407.3 | 4085688 | 2.43E-03 | 3.70E-04 | 2.00E-04 |
| 2441 | 257384.5 | 4085680 | 2.45E-03 | 3.73E-04 | 2.02E-04 |
| 2442 | 257361.7 | 4085672 | 2.46E-03 | 3.75E-04 | 2.03E-04 |
| 2443 | 257338.9 | 4085663 | 2.47E-03 | 3.76E-04 | 2.04E-04 |
| 2444 | 257316.1 | 4085655 | 2.47E-03 | 3.76E-04 | 2.03E-04 |
| 2445 | 257293.3 | 4085647 | 2.46E-03 | 3.74E-04 | 2.02E-04 |
| 2446 | 257270.5 | 4085638 | 2.43E-03 | 3.70E-04 | 2.00E-04 |
| 2447 | 257247.7 | 4085630 | 2.39E-03 | 3.65E-04 | 1.97E-04 |
| 2448 | 257224.9 | 4085622 | 2.35E-03 | 3.59E-04 | 1.94E-04 |
| 2449 | 257202.1 | 4085613 | 2.31E-03 | 3.52E-04 | 1.90E-04 |
| 2450 | 257179.3 | 4085605 | 2.26E-03 | 3.44E-04 | 1.86E-04 |
| 2451 | 257146.3 | 4085575 | 2.23E-03 | 3.40E-04 | 1.84E-04 |
| 2452 | 257136.2 | 4085553 | 2.24E-03 | 3.41E-04 | 1.85E-04 |
| 2453 | 257126 | 4085531 | 2.24E-03 | 3.41E-04 | 1.84E-04 |
| 2454 | 257115.9 | 4085509 | 2.22E-03 | 3.37E-04 | 1.83E-04 |
| 2455 | 257105.7 | 4085487 | 2.18E-03 | 3.32E-04 | 1.79E-04 |
| 2456 | 257095.6 | 4085464 | 2.12E-03 | 3.23E-04 | 1.75E-04 |
| 2457 | 257085.4 | 4085442 | 2.04E-03 | 3.11E-04 | 1.68E-04 |
| 2458 | 257075.3 | 4085420 | 1.94E-03 | 2.96E-04 | 1.60E-04 |
| 2459 | 257065.1 | 4085398 | 1.83E-03 | 2.78E-04 | 1.51E-04 |
| 2460 | 257055 | 4085376 | 1.70E-03 | 2.59E-04 | 1.40E-04 |
| 2461 | 257044.8 | 4085354 | 1.57E-03 | 2.39E-04 | 1.29E-04 |
| 2462 | 257034.7 | 4085332 | 1.44E-03 | 2.20E-04 | 1.19E-04 |
| 2463 | 257024.5 | 4085310 | 1.32E-03 | 2.01E-04 | 1.09E-04 |
| 2464 | 257014.3 | 4085288 | 1.21E-03 | 1.84E-04 | 9.97E-05 |
| 2465 | 257004.2 | 4085266 | 1.11E-03 | 1.70E-04 | 9.18E-05 |
| 2466 | 256994 | 4085244 | 1.03E-03 | 1.57E-04 | 8.50E-05 |
| 2467 | 256983.9 | 4085222 | 9.63E-04 | 1.47E-04 | 7.94E-05 |
| 2468 | 256973.7 | 4085200 | 9.07E-04 | 1.38E-04 | 7.48E-05 |
| 2469 | 257589.7 | 4085755 | 2.15E-03 | 3.28E-04 | 1.78E-04 |
| 2470 | 257614 | 4085754 | 2.16E-03 | 3.28E-04 | 1.78E-04 |
| 2471 | 257638.3 | 4085753 | 2.16E-03 | 3.28E-04 | 1.78E-04 |
| 2472 | 257662.6 | 4085752 | 2.15E-03 | 3.28E-04 | 1.77E-04 |
| 2473 | 257686.8 | 4085751 | 2.14E-03 | 3.26E-04 | 1.77E-04 |
| 2474 | 257711.1 | 4085750 | 2.13E-03 | 3.24E-04 | 1.75E-04 |
| 2475 | 257735.4 | 4085749 | 2.11E-03 | 3.22E-04 | 1.74E-04 |
| 2476 | 257759.7 | 4085747 | 2.09E-03 | 3.18E-04 | 1.72E-04 |
| 2477 | 257784 | 4085746 | 2.07E-03 | 3.15E-04 | 1.70E-04 |
| 2478 | 257808.2 | 4085745 | 2.03E-03 | 3.10E-04 | 1.68E-04 |
| 2479 | 257832.5 | 4085744 | 2.00E-03 | 3.04E-04 | 1.65E-04 |
| 2480 | 257856.8 | 4085743 | 1.96E-03 | 2.99E-04 | 1.62E-04 |
| 2481 | 257881.1 | 4085742 | 1.93E-03 | 2.94E-04 | 1.59E-04 |
| 2482 | 257905.4 | 4085741 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 2483 | 257929.7 | 4085740 | 1.85E-03 | 2.82E-04 | 1.53E-04 |
| 2484 | 257953.9 | 4085739 | 1.81E-03 | 2.75E-04 | 1.49E-04 |

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| 1027 | 258240.8 | 4084426 | 0.001673747 | 2.55E-04 | 1.38E-04 |
| 1028 | 258216.5 | 4084427 | 0.001605138 | 2.45E-04 | 1.32E-04 |
| 1029 | 258192.2 | 4084428 | 0.00153475 | 2.34E-04 | 1.27E-04 |
| 1030 | 258167.8 | 4084429 | 0.001462881 | 2.23E-04 | 1.21E-04 |
| 1031 | 258143.5 | 4084430 | 0.001390566 | 2.12E-04 | 1.15E-04 |
| 1032 | 258119.2 | 4084431 | 0.0013184 | 2.01E-04 | 1.09E-04 |
| 1033 | 258094.8 | 4084432 | 0.001246827 | 1.90E-04 | 1.03E-04 |
| 1034 | 258070.5 | 4084433 | 0.001176884 | 1.79E-04 | 9.70E-05 |
| 1035 | 258046.2 | 4084434 | 0.001108422 | 1.69E-04 | 9.14E-05 |
| 1036 | 258021.8 | 4084435 | 0.001042332 | 1.59E-04 | 8.59E-05 |
| 1037 | 257997.5 | 4084436 | 0.000979057 | 1.49E-04 | 8.07E-05 |
| 1038 | 257973.2 | 4084437 | 0.000918746 | 1.40E-04 | 7.57E-05 |
| 1039 | 257948.8 | 4084438 | 0.000861695 | 1.31E-04 | 7.10E-05 |
| 1040 | 257924.5 | 4084439 | 0.000808052 | 1.23E-04 | 6.66E-05 |
| 1041 | 257900.2 | 4084440 | 0.000757965 | 1.15E-04 | 6.25E-05 |
| 1042 | 257875.8 | 4084441 | 0.000711287 | 1.08E-04 | 5.86E-05 |
| 1043 | 257851.5 | 4084442 | 0.000668017 | 1.02E-04 | 5.51E-05 |
| 1044 | 257827.2 | 4084443 | 0.000628007 | 9.57E-05 | 5.18E-05 |
| 1045 | 257802.8 | 4084444 | 0.000591406 | 9.01E-05 | 4.87E-05 |
| 1046 | 257778.5 | 4084445 | 0.000558064 | 8.50E-05 | 4.60E-05 |
| 1047 | 257754.2 | 4084446 | 0.000527834 | 8.04E-05 | 4.35E-05 |
| 1048 | 257729.9 | 4084447 | 0.000500717 | 7.63E-05 | 4.13E-05 |
| 1049 | 257705.5 | 4084448 | 0.000476118 | 7.25E-05 | 3.92E-05 |
| 1050 | 257681.2 | 4084449 | 0.000454038 | 6.92E-05 | 3.74E-05 |
| 1051 | 257656.9 | 4084450 | 0.000434182 | 6.61E-05 | 3.58E-05 |
| 1052 | 257632.5 | 4084451 | 0.000416103 | 6.34E-05 | 3.43E-05 |
| 1053 | 257608.2 | 4084452 | 0.000399654 | 6.09E-05 | 3.29E-05 |
| 1054 | 257583.9 | 4084453 | 0.000384391 | 5.86E-05 | 3.17E-05 |
| 1055 | 257559.5 | 4084454 | 0.000370166 | 5.64E-05 | 3.05E-05 |
| 1056 | 257535.2 | 4084455 | 0.000356829 | 5.44E-05 | 2.94E-05 |
| 1057 | 258356.9 | 4084331 | 0.001358707 | 2.07E-04 | 1.12E-04 |
| 1058 | 258379.7 | 4084339 | 0.001452804 | 2.21E-04 | 1.20E-04 |
| 1059 | 258402.5 | 4084348 | 0.001548976 | 2.36E-04 | 1.28E-04 |
| 1060 | 258425.4 | 4084356 | 0.001646333 | 2.51E-04 | 1.36E-04 |
| 1061 | 258448.2 | 4084365 | 0.001744283 | 2.66E-04 | 1.44E-04 |
| 1062 | 258471 | 4084373 | 0.001842234 | 2.81E-04 | 1.52E-04 |
| 1063 | 258493.8 | 4084382 | 0.001939147 | 2.95E-04 | 1.60E-04 |
| 1064 | 258516.7 | 4084390 | 0.002034429 | 3.10E-04 | 1.68E-04 |
| 1065 | 258539.5 | 4084399 | 0.002127045 | 3.24E-04 | 1.75E-04 |
| 1066 | 258562.3 | 4084407 | 0.002215956 | 3.38E-04 | 1.83E-04 |
| 1067 | 258585.2 | 4084416 | 0.002299977 | 3.50E-04 | 1.90E-04 |
| 1068 | 258608 | 4084424 | 0.002377625 | 3.62E-04 | 1.96E-04 |
| 1069 | 258630.8 | 4084432 | 0.002447865 | 3.73E-04 | 2.02E-04 |
| 1070 | 258653.6 | 4084441 | 0.002509658 | 3.82E-04 | 2.07E-04 |
| 1071 | 258676.5 | 4084449 | 0.002561078 | 3.90E-04 | 2.11E-04 |
| 1072 | 258699.3 | 4084458 | 0.002600199 | 3.96E-04 | 2.14E-04 |
| 1073 | 258722.1 | 4084466 | 0.002621686 | 3.99E-04 | 2.16E-04 |

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| 980 | 257831.3 | 4084543 | 0.000998321 | 1.52E-04 | 8.23E-05 |
| 981 | 257807 | 4084544 | 0.000925859 | 1.41E-04 | 7.63E-05 |
| 982 | 257782.6 | 4084545 | 0.000860213 | 1.31E-04 | 7.09E-05 |
| 983 | 257758.3 | 4084546 | 0.000800939 | 1.22E-04 | 6.60E-05 |
| 984 | 257734 | 4084547 | 0.000747592 | 1.14E-04 | 6.16E-05 |
| 985 | 257709.6 | 4084548 | 0.000699877 | 1.07E-04 | 5.77E-05 |
| 986 | 257685.3 | 4084549 | 0.0006572 | 1.00E-04 | 5.42E-05 |
| 987 | 257661 | 4084550 | 0.000618968 | 9.43E-05 | 5.10E-05 |
| 988 | 257636.6 | 4084551 | 0.000584589 | 8.91E-05 | 4.82E-05 |
| 989 | 257612.3 | 4084552 | 0.000553619 | 8.43E-05 | 4.56E-05 |
| 990 | 257588 | 4084553 | 0.000525463 | 8.01E-05 | 4.33E-05 |
| 991 | 257563.6 | 4084554 | 0.000499827 | 7.61E-05 | 4.12E-05 |
| 992 | 257539.3 | 4084555 | 0.000476118 | 7.25E-05 | 3.92E-05 |
| 993 | 258360.7 | 4084431 | 0.002048062 | 3.12E-04 | 1.69E-04 |
| 994 | 258383.3 | 4084439 | 0.002178021 | 3.32E-04 | 1.80E-04 |
| 995 | 258405.9 | 4084448 | 0.002307238 | 3.51E-04 | 1.90E-04 |
| 996 | 258428.5 | 4084456 | 0.00243601 | 3.71E-04 | 2.01E-04 |
| 997 | 258451.1 | 4084464 | 0.00256093 | 3.90E-04 | 2.11E-04 |
| 998 | 258473.7 | 4084473 | 0.00268422 | 4.09E-04 | 2.21E-04 |
| 999 | 258496.3 | 4084481 | 0.002803805 | 4.27E-04 | 2.31E-04 |
| 1000 | 258518.9 | 4084489 | 0.002917314 | 4.44E-04 | 2.40E-04 |
| 1001 | 258541.5 | 4084498 | 0.003023118 | 4.61E-04 | 2.49E-04 |
| 1002 | 258564.1 | 4084506 | 0.003119142 | 4.75E-04 | 2.57E-04 |
| 1003 | 258586.6 | 4084514 | 0.003203015 | 4.88E-04 | 2.64E-04 |
| 1004 | 258609.2 | 4084523 | 0.003272217 | 4.99E-04 | 2.70E-04 |
| 1005 | 258631.8 | 4084531 | 0.003324082 | 5.06E-04 | 2.74E-04 |
| 1006 | 258654.4 | 4084540 | 0.003356534 | 5.11E-04 | 2.77E-04 |
| 1007 | 258677 | 4084548 | 0.003366907 | 5.13E-04 | 2.78E-04 |
| 1008 | 258709.5 | 4084578 | 0.003473304 | 5.29E-04 | 2.86E-04 |
| 1009 | 258719.5 | 4084600 | 0.003579997 | 5.45E-04 | 2.95E-04 |
| 1010 | 258729.4 | 4084622 | 0.00365972 | 5.58E-04 | 3.02E-04 |
| 1011 | 258739.3 | 4084644 | 0.00370788 | 5.65E-04 | 3.06E-04 |
| 1012 | 258749.2 | 4084666 | 0.003720476 | 5.67E-04 | 3.07E-04 |
| 1013 | 258759.2 | 4084688 | 0.003694988 | 5.63E-04 | 3.05E-04 |
| 1014 | 258769.1 | 4084710 | 0.003630676 | 5.53E-04 | 2.99E-04 |
| 1015 | 258779 | 4084732 | 0.003529466 | 5.38E-04 | 2.91E-04 |
| 1016 | 258789 | 4084754 | 0.003395359 | 5.17E-04 | 2.80E-04 |
| 1017 | 258798.9 | 4084776 | 0.003234282 | 4.93E-04 | 2.67E-04 |
| 1018 | 258808.8 | 4084798 | 0.003052755 | 4.65E-04 | 2.52E-04 |
| 1019 | 258818.8 | 4084820 | 0.002858337 | 4.35E-04 | 2.36E-04 |
| 1020 | 258828.7 | 4084842 | 0.002659028 | 4.05E-04 | 2.19E-04 |
| 1021 | 258838.6 | 4084864 | 0.002461498 | 3.75E-04 | 2.03E-04 |
| 1022 | 258848.5 | 4084886 | 0.00227034 | 3.46E-04 | 1.87E-04 |
| 1023 | 258338.1 | 4084422 | 0.001920327 | 2.93E-04 | 1.58E-04 |
| 1024 | 258313.8 | 4084423 | 0.001863424 | 2.84E-04 | 1.54E-04 |
| 1025 | 258289.5 | 4084424 | 0.001803261 | 2.75E-04 | 1.49E-04 |
| 1026 | 258265.2 | 4084425 | 0.001739986 | 2.65E-04 | 1.43E-04 |

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| 933 | 257567.7 | 4084654 | 0.00072003 | 1.10E-04 | 5.94E-05 |
| 934 | 257543.4 | 4084655 | 0.000676019 | 1.03E-04 | 5.57E-05 |
| 935 | 258364.5 | 4084531 | 0.003154558 | 4.81E-04 | 2.60E-04 |
| 936 | 258386.7 | 4084539 | 0.003327638 | 5.07E-04 | 2.74E-04 |
| 937 | 258409 | 4084547 | 0.003498051 | 5.33E-04 | 2.88E-04 |
| 938 | 258431.2 | 4084555 | 0.003664166 | 5.58E-04 | 3.02E-04 |
| 939 | 258453.5 | 4084564 | 0.003823316 | 5.82E-04 | 3.15E-04 |
| 940 | 258475.7 | 4084572 | 0.003973427 | 6.05E-04 | 3.28E-04 |
| 941 | 258498 | 4084580 | 0.004110795 | 6.26E-04 | 3.39E-04 |
| 942 | 258520.2 | 4084588 | 0.004232455 | 6.45E-04 | 3.49E-04 |
| 943 | 258542.4 | 4084597 | 0.004333517 | 6.60E-04 | 3.57E-04 |
| 944 | 258564.7 | 4084605 | 0.004409535 | 6.72E-04 | 3.63E-04 |
| 945 | 258586.9 | 4084613 | 0.004455769 | 6.79E-04 | 3.67E-04 |
| 946 | 258609.2 | 4084621 | 0.00446792 | 6.81E-04 | 3.68E-04 |
| 947 | 258641.2 | 4084651 | 0.004633294 | 7.06E-04 | 3.82E-04 |
| 948 | 258651 | 4084673 | 0.004786666 | 7.29E-04 | 3.95E-04 |
| 949 | 258660.7 | 4084694 | 0.004885653 | 7.44E-04 | 4.03E-04 |
| 950 | 258670.5 | 4084716 | 0.004925663 | 7.50E-04 | 4.06E-04 |
| 951 | 258680.3 | 4084738 | 0.004911289 | 7.48E-04 | 4.05E-04 |
| 952 | 258690.1 | 4084759 | 0.004830529 | 7.36E-04 | 3.98E-04 |
| 953 | 258699.9 | 4084781 | 0.004685604 | 7.14E-04 | 3.86E-04 |
| 954 | 258709.6 | 4084802 | 0.004484221 | 6.83E-04 | 3.70E-04 |
| 955 | 258719.4 | 4084824 | 0.004237048 | 6.45E-04 | 3.49E-04 |
| 956 | 258729.2 | 4084846 | 0.003957572 | 6.03E-04 | 3.26E-04 |
| 957 | 258739 | 4084867 | 0.003660461 | 5.58E-04 | 3.02E-04 |
| 958 | 258748.7 | 4084889 | 0.003359202 | 5.12E-04 | 2.77E-04 |
| 959 | 258342.3 | 4084522 | 0.002982516 | 4.54E-04 | 2.46E-04 |
| 960 | 258317.9 | 4084523 | 0.002922056 | 4.45E-04 | 2.41E-04 |
| 961 | 258293.6 | 4084524 | 0.002854781 | 4.35E-04 | 2.35E-04 |
| 962 | 258269.3 | 4084525 | 0.002780836 | 4.24E-04 | 2.29E-04 |
| 963 | 258244.9 | 4084526 | 0.00270052 | 4.11E-04 | 2.23E-04 |
| 964 | 258220.6 | 4084527 | 0.002614128 | 3.98E-04 | 2.15E-04 |
| 965 | 258196.3 | 4084528 | 0.002522402 | 3.84E-04 | 2.08E-04 |
| 966 | 258171.9 | 4084529 | 0.002425933 | 3.70E-04 | 2.00E-04 |
| 967 | 258147.6 | 4084530 | 0.002325168 | 3.54E-04 | 1.92E-04 |
| 968 | 258123.3 | 4084531 | 0.002221142 | 3.38E-04 | 1.83E-04 |
| 969 | 258098.9 | 4084532 | 0.002114153 | 3.22E-04 | 1.74E-04 |
| 970 | 258074.6 | 4084533 | 0.002004941 | 3.05E-04 | 1.65E-04 |
| 971 | 258050.3 | 4084534 | 0.001894395 | 2.89E-04 | 1.56E-04 |
| 972 | 258025.9 | 4084535 | 0.001783256 | 2.72E-04 | 1.47E-04 |
| 973 | 258001.6 | 4084536 | 0.001672562 | 2.55E-04 | 1.38E-04 |
| 974 | 257977.3 | 4084537 | 0.001563202 | 2.38E-04 | 1.29E-04 |
| 975 | 257952.9 | 4084538 | 0.001456657 | 2.22E-04 | 1.20E-04 |
| 976 | 257928.6 | 4084539 | 0.001353816 | 2.06E-04 | 1.12E-04 |
| 977 | 257904.3 | 4084540 | 0.001255718 | 1.91E-04 | 1.04E-04 |
| 978 | 257879.9 | 4084541 | 0.001163399 | 1.77E-04 | 9.59E-05 |
| 979 | 257855.6 | 4084542 | 0.001077452 | 1.64E-04 | 8.88E-05 |

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| 886 | 258433.1 | 4084654 | 0.005667328 | 8.63E-04 | 4.67E-04 |
| 887 | 258454.8 | 4084662 | 0.005860117 | 8.93E-04 | 4.83E-04 |
| 888 | 258476.5 | 4084670 | 0.006025491 | 9.18E-04 | 4.97E-04 |
| 889 | 258498.2 | 4084679 | 0.006153671 | 9.37E-04 | 5.07E-04 |
| 890 | 258519.9 | 4084687 | 0.006233987 | 9.50E-04 | 5.14E-04 |
| 891 | 258541.5 | 4084695 | 0.006256215 | 9.53E-04 | 5.16E-04 |
| 892 | 258572.8 | 4084724 | 0.006519391 | 9.93E-04 | 5.37E-04 |
| 893 | 258582.3 | 4084745 | 0.006758265 | 1.03E-03 | 5.57E-04 |
| 894 | 258591.8 | 4084766 | 0.006878146 | 1.05E-03 | 5.67E-04 |
| 895 | 258601.4 | 4084787 | 0.00691134 | 1.05E-03 | 5.70E-04 |
| 896 | 258610.9 | 4084808 | 0.006821095 | 1.04E-03 | 5.62E-04 |
| 897 | 258620.4 | 4084829 | 0.006608895 | 1.01E-03 | 5.45E-04 |
| 898 | 258630 | 4084850 | 0.006288371 | 9.58E-04 | 5.18E-04 |
| 899 | 258639.5 | 4084871 | 0.005883382 | 8.96E-04 | 4.85E-04 |
| 900 | 258649 | 4084892 | 0.005422675 | 8.26E-04 | 4.47E-04 |
| 901 | 258346.4 | 4084622 | 0.004755399 | 7.24E-04 | 3.92E-04 |
| 902 | 258322 | 4084623 | 0.004708573 | 7.17E-04 | 3.88E-04 |
| 903 | 258297.7 | 4084624 | 0.00465167 | 7.09E-04 | 3.83E-04 |
| 904 | 258273.4 | 4084625 | 0.004583653 | 6.98E-04 | 3.78E-04 |
| 905 | 258249 | 4084626 | 0.004502003 | 6.86E-04 | 3.71E-04 |
| 906 | 258224.7 | 4084627 | 0.004412647 | 6.72E-04 | 3.64E-04 |
| 907 | 258200.4 | 4084628 | 0.004310993 | 6.57E-04 | 3.55E-04 |
| 908 | 258176 | 4084629 | 0.004198372 | 6.40E-04 | 3.46E-04 |
| 909 | 258151.7 | 4084630 | 0.004075823 | 6.21E-04 | 3.36E-04 |
| 910 | 258127.4 | 4084631 | 0.003943494 | 6.01E-04 | 3.25E-04 |
| 911 | 258103 | 4084632 | 0.003797532 | 5.79E-04 | 3.13E-04 |
| 912 | 258078.7 | 4084633 | 0.003645198 | 5.55E-04 | 3.00E-04 |
| 913 | 258054.4 | 4084634 | 0.003484121 | 5.31E-04 | 2.87E-04 |
| 914 | 258030 | 4084635 | 0.003315931 | 5.05E-04 | 2.73E-04 |
| 915 | 258005.7 | 4084636 | 0.003142111 | 4.79E-04 | 2.59E-04 |
| 916 | 257981.4 | 4084637 | 0.002958954 | 4.51E-04 | 2.44E-04 |
| 917 | 257957.1 | 4084638 | 0.002771204 | 4.22E-04 | 2.28E-04 |
| 918 | 257932.7 | 4084639 | 0.002581083 | 3.93E-04 | 2.13E-04 |
| 919 | 257908.4 | 4084640 | 0.002390814 | 3.64E-04 | 1.97E-04 |
| 920 | 257884.1 | 4084641 | 0.002202915 | 3.36E-04 | 1.82E-04 |
| 921 | 257859.7 | 4084642 | 0.002020204 | 3.08E-04 | 1.67E-04 |
| 922 | 257835.4 | 4084643 | 0.001845197 | 2.81E-04 | 1.52E-04 |
| 923 | 257811.1 | 4084644 | 0.001680416 | 2.56E-04 | 1.39E-04 |
| 924 | 257786.7 | 4084645 | 0.001527489 | 2.33E-04 | 1.26E-04 |
| 925 | 257762.4 | 4084646 | 0.001387899 | 2.11E-04 | 1.14E-04 |
| 926 | 257738.1 | 4084647 | 0.001262238 | 1.92E-04 | 1.04E-04 |
| 927 | 257713.7 | 4084648 | 0.001150655 | 1.75E-04 | 9.48E-05 |
| 928 | 257689.4 | 4084649 | 0.001052112 | 1.60E-04 | 8.67E-05 |
| 929 | 257665.1 | 4084650 | 0.000966165 | 1.47E-04 | 7.96E-05 |
| 930 | 257640.7 | 4084651 | 0.00089148 | 1.36E-04 | 7.35E-05 |
| 931 | 257616.4 | 4084652 | 0.000826575 | 1.26E-04 | 6.81E-05 |
| 932 | 257592.1 | 4084653 | 0.000769968 | 1.17E-04 | 6.35E-05 |

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| 839 | 258461.4 | 4084714 | 0.007433691 | 1.13E-03 | 6.13E-04 |
| 840 | 258484 | 4084722 | 0.007568688 | 1.15E-03 | 6.24E-04 |
| 841 | 258506.6 | 4084731 | 0.007615663 | 1.16E-03 | 6.28E-04 |
| 842 | 258539.1 | 4084761 | 0.007991903 | 1.22E-03 | 6.59E-04 |
| 843 | 258549 | 4084783 | 0.008293015 | 1.26E-03 | 6.84E-04 |
| 844 | 258558.9 | 4084805 | 0.008436754 | 1.29E-03 | 6.95E-04 |
| 845 | 258568.9 | 4084827 | 0.008402968 | 1.28E-03 | 6.93E-04 |
| 846 | 258578.8 | 4084849 | 0.008168095 | 1.24E-03 | 6.73E-04 |
| 847 | 258588.7 | 4084871 | 0.007751251 | 1.18E-03 | 6.39E-04 |
| 848 | 258598.6 | 4084893 | 0.007192298 | 1.10E-03 | 5.93E-04 |
| 849 | 258348.4 | 4084672 | 0.006106845 | 9.30E-04 | 5.03E-04 |
| 850 | 258324.1 | 4084673 | 0.006080616 | 9.26E-04 | 5.01E-04 |
| 851 | 258299.8 | 4084674 | 0.006038531 | 9.20E-04 | 4.98E-04 |
| 852 | 258275.4 | 4084675 | 0.005981184 | 9.11E-04 | 4.93E-04 |
| 853 | 258251.1 | 4084676 | 0.005909314 | 9.00E-04 | 4.87E-04 |
| 854 | 258226.8 | 4084677 | 0.005823663 | 8.87E-04 | 4.80E-04 |
| 855 | 258202.4 | 4084678 | 0.00572512 | 8.72E-04 | 4.72E-04 |
| 856 | 258178.1 | 4084679 | 0.005613537 | 8.55E-04 | 4.63E-04 |
| 857 | 258153.8 | 4084680 | 0.005488766 | 8.36E-04 | 4.52E-04 |
| 858 | 258129.4 | 4084681 | 0.005350213 | 8.15E-04 | 4.41E-04 |
| 859 | 258105.1 | 4084682 | 0.005197434 | 7.92E-04 | 4.28E-04 |
| 860 | 258080.8 | 4084683 | 0.005030281 | 7.66E-04 | 4.15E-04 |
| 861 | 258056.4 | 4084684 | 0.004848607 | 7.39E-04 | 4.00E-04 |
| 862 | 258032.1 | 4084685 | 0.00465241 | 7.09E-04 | 3.83E-04 |
| 863 | 258007.8 | 4084686 | 0.004442432 | 6.77E-04 | 3.66E-04 |
| 864 | 257983.4 | 4084687 | 0.004218525 | 6.43E-04 | 3.48E-04 |
| 865 | 257959.1 | 4084688 | 0.003984245 | 6.07E-04 | 3.28E-04 |
| 866 | 257934.8 | 4084689 | 0.003737814 | 5.69E-04 | 3.08E-04 |
| 867 | 257910.4 | 4084690 | 0.003481602 | 5.30E-04 | 2.87E-04 |
| 868 | 257886.1 | 4084691 | 0.003219611 | 4.90E-04 | 2.65E-04 |
| 869 | 257861.8 | 4084692 | 0.002955694 | 4.50E-04 | 2.44E-04 |
| 870 | 257837.4 | 4084693 | 0.002694296 | 4.10E-04 | 2.22E-04 |
| 871 | 257813.1 | 4084694 | 0.002440011 | 3.72E-04 | 2.01E-04 |
| 872 | 257788.8 | 4084695 | 0.002197729 | 3.35E-04 | 1.81E-04 |
| 873 | 257764.5 | 4084696 | 0.001971895 | 3.00E-04 | 1.63E-04 |
| 874 | 257740.1 | 4084697 | 0.00176577 | 2.69E-04 | 1.46E-04 |
| 875 | 257715.8 | 4084698 | 0.001581577 | 2.41E-04 | 1.30E-04 |
| 876 | 257691.5 | 4084699 | 0.001420055 | 2.16E-04 | 1.17E-04 |
| 877 | 257667.1 | 4084700 | 0.001280761 | 1.95E-04 | 1.06E-04 |
| 878 | 257642.8 | 4084701 | 0.001161769 | 1.77E-04 | 9.58E-05 |
| 879 | 257618.5 | 4084702 | 0.001060707 | 1.62E-04 | 8.74E-05 |
| 880 | 257594.1 | 4084703 | 0.000974612 | 1.48E-04 | 8.03E-05 |
| 881 | 257569.8 | 4084704 | 0.000900964 | 1.37E-04 | 7.43E-05 |
| 882 | 257545.5 | 4084705 | 0.000837541 | 1.28E-04 | 6.90E-05 |
| 883 | 258368 | 4084630 | 0.00499531 | 7.61E-04 | 4.12E-04 |
| 884 | 258389.7 | 4084638 | 0.005229739 | 7.97E-04 | 4.31E-04 |
| 885 | 258411.4 | 4084646 | 0.005455127 | 8.31E-04 | 4.50E-04 |

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| 792 | 257622.6 | 4084802 | 0.002099334 | 3.20E-04 | 1.73E-04 |
| 793 | 257598.2 | 4084803 | 0.001828452 | 2.79E-04 | 1.51E-04 |
| 794 | 257573.9 | 4084804 | 0.001615955 | 2.46E-04 | 1.33E-04 |
| 795 | 257549.6 | 4084805 | 0.001447469 | 2.21E-04 | 1.19E-04 |
| 796 | 258371.1 | 4084730 | 0.008355252 | 1.27E-03 | 6.89E-04 |
| 797 | 258412.4 | 4084745 | 0.009011711 | 1.37E-03 | 7.43E-04 |
| 798 | 258453.7 | 4084760 | 0.009452858 | 1.44E-03 | 7.79E-04 |
| 799 | 258504.1 | 4084796 | 0.01002648 | 1.53E-03 | 8.26E-04 |
| 800 | 258522.3 | 4084836 | 0.01061907 | 1.62E-03 | 8.75E-04 |
| 801 | 258540.4 | 4084876 | 0.01025394 | 1.56E-03 | 8.45E-04 |
| 802 | 258326.1 | 4084723 | 0.00800598 | 1.22E-03 | 6.60E-04 |
| 803 | 258301.8 | 4084724 | 0.007993978 | 1.22E-03 | 6.59E-04 |
| 804 | 258277.5 | 4084725 | 0.007961228 | 1.21E-03 | 6.56E-04 |
| 805 | 258253.1 | 4084726 | 0.007909513 | 1.20E-03 | 6.52E-04 |
| 806 | 258228.8 | 4084727 | 0.007840903 | 1.19E-03 | 6.46E-04 |
| 807 | 258204.5 | 4084728 | 0.007756289 | 1.18E-03 | 6.39E-04 |
| 808 | 258180.1 | 4084729 | 0.007655524 | 1.17E-03 | 6.31E-04 |
| 809 | 258155.8 | 4084730 | 0.007538013 | 1.15E-03 | 6.21E-04 |
| 810 | 258131.5 | 4084731 | 0.007403017 | 1.13E-03 | 6.10E-04 |
| 811 | 258107.2 | 4084732 | 0.007249794 | 1.10E-03 | 5.98E-04 |
| 812 | 258082.8 | 4084733 | 0.007076862 | 1.08E-03 | 5.83E-04 |
| 813 | 258058.5 | 4084734 | 0.006883778 | 1.05E-03 | 5.67E-04 |
| 814 | 258034.2 | 4084735 | 0.006669058 | 1.02E-03 | 5.50E-04 |
| 815 | 258009.8 | 4084736 | 0.006431814 | 9.80E-04 | 5.30E-04 |
| 816 | 257985.5 | 4084737 | 0.006171453 | 9.40E-04 | 5.09E-04 |
| 817 | 257961.2 | 4084738 | 0.005887679 | 8.97E-04 | 4.85E-04 |
| 818 | 257936.8 | 4084739 | 0.00558064 | 8.50E-04 | 4.60E-04 |
| 819 | 257912.5 | 4084740 | 0.005251818 | 8.00E-04 | 4.33E-04 |
| 820 | 257888.2 | 4084741 | 0.004902842 | 7.47E-04 | 4.04E-04 |
| 821 | 257863.8 | 4084742 | 0.004537271 | 6.91E-04 | 3.74E-04 |
| 822 | 257839.5 | 4084743 | 0.004159844 | 6.34E-04 | 3.43E-04 |
| 823 | 257815.2 | 4084744 | 0.003776194 | 5.75E-04 | 3.11E-04 |
| 824 | 257790.8 | 4084745 | 0.003394469 | 5.17E-04 | 2.80E-04 |
| 825 | 257766.5 | 4084746 | 0.003023563 | 4.61E-04 | 2.49E-04 |
| 826 | 257742.2 | 4084747 | 0.00267281 | 4.07E-04 | 2.20E-04 |
| 827 | 257717.8 | 4084748 | 0.002350804 | 3.58E-04 | 1.94E-04 |
| 828 | 257693.5 | 4084749 | 0.002064066 | 3.14E-04 | 1.70E-04 |
| 829 | 257669.2 | 4084750 | 0.001816301 | 2.77E-04 | 1.50E-04 |
| 830 | 257644.8 | 4084751 | 0.001607509 | 2.45E-04 | 1.33E-04 |
| 831 | 257620.5 | 4084752 | 0.001434281 | 2.19E-04 | 1.18E-04 |
| 832 | 257596.2 | 4084753 | 0.001291727 | 1.97E-04 | 1.06E-04 |
| 833 | 257571.9 | 4084754 | 0.00117392 | 1.79E-04 | 9.68E-05 |
| 834 | 257547.5 | 4084755 | 0.001075377 | 1.64E-04 | 8.86E-05 |
| 835 | 258371 | 4084681 | 0.006413142 | 9.77E-04 | 5.29E-04 |
| 836 | 258393.6 | 4084689 | 0.006708326 | 1.02E-03 | 5.53E-04 |
| 837 | 258416.2 | 4084697 | 0.006985284 | 1.06E-03 | 5.76E-04 |
| 838 | 258438.8 | 4084706 | 0.007232753 | 1.10E-03 | 5.96E-04 |

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| 745 | 257746.3 | 4084847 | 0.008478394 | 1.29E-03 | 6.99E-04 |
| 746 | 257722 | 4084848 | 0.007455623 | 1.14E-03 | 6.15E-04 |
| 747 | 257697.6 | 4084849 | 0.006399361 | 9.75E-04 | 5.27E-04 |
| 748 | 257673.3 | 4084850 | 0.005355547 | 8.16E-04 | 4.41E-04 |
| 749 | 257649 | 4084851 | 0.004385678 | 6.68E-04 | 3.62E-04 |
| 750 | 257624.6 | 4084852 | 0.003555398 | 5.42E-04 | 2.93E-04 |
| 751 | 257600.3 | 4084853 | 0.00290709 | 4.43E-04 | 2.40E-04 |
| 752 | 257576 | 4084854 | 0.002434232 | 3.71E-04 | 2.01E-04 |
| 753 | 257551.6 | 4084855 | 0.002094741 | 3.19E-04 | 1.73E-04 |
| 754 | 258374.2 | 4084780 | 0.01132814 | 1.73E-03 | 9.34E-04 |
| 755 | 258395.9 | 4084788 | 0.01180262 | 1.80E-03 | 9.73E-04 |
| 756 | 258417.6 | 4084796 | 0.01217175 | 1.85E-03 | 1.00E-03 |
| 757 | 258439.3 | 4084804 | 0.01235595 | 1.88E-03 | 1.02E-03 |
| 758 | 258470.5 | 4084833 | 0.01322135 | 2.01E-03 | 1.09E-03 |
| 759 | 258480 | 4084854 | 0.01382327 | 2.11E-03 | 1.14E-03 |
| 760 | 258489.6 | 4084876 | 0.01394627 | 2.12E-03 | 1.15E-03 |
| 761 | 258499.1 | 4084897 | 0.01359447 | 2.07E-03 | 1.12E-03 |
| 762 | 258352.5 | 4084772 | 0.01080564 | 1.65E-03 | 8.91E-04 |
| 763 | 258328.2 | 4084773 | 0.01088595 | 1.66E-03 | 8.97E-04 |
| 764 | 258303.9 | 4084774 | 0.01092848 | 1.66E-03 | 9.01E-04 |
| 765 | 258279.5 | 4084775 | 0.01093974 | 1.67E-03 | 9.02E-04 |
| 766 | 258255.2 | 4084776 | 0.01092552 | 1.66E-03 | 9.01E-04 |
| 767 | 258230.9 | 4084777 | 0.01088966 | 1.66E-03 | 8.98E-04 |
| 768 | 258206.5 | 4084778 | 0.01083379 | 1.65E-03 | 8.93E-04 |
| 769 | 258182.2 | 4084779 | 0.01075807 | 1.64E-03 | 8.87E-04 |
| 770 | 258157.9 | 4084780 | 0.01066219 | 1.62E-03 | 8.79E-04 |
| 771 | 258133.5 | 4084781 | 0.01054483 | 1.61E-03 | 8.69E-04 |
| 772 | 258109.2 | 4084782 | 0.01040465 | 1.59E-03 | 8.58E-04 |
| 773 | 258084.9 | 4084783 | 0.01023972 | 1.56E-03 | 8.44E-04 |
| 774 | 258060.5 | 4084784 | 0.01004841 | 1.53E-03 | 8.28E-04 |
| 775 | 258036.2 | 4084785 | 0.009828654 | 1.50E-03 | 8.10E-04 |
| 776 | 258011.9 | 4084786 | 0.009578519 | 1.46E-03 | 7.90E-04 |
| 777 | 257987.5 | 4084787 | 0.009295337 | 1.42E-03 | 7.66E-04 |
| 778 | 257963.2 | 4084788 | 0.008976888 | 1.37E-03 | 7.40E-04 |
| 779 | 257938.9 | 4084789 | 0.008620948 | 1.31E-03 | 7.11E-04 |
| 780 | 257914.6 | 4084790 | 0.008225739 | 1.25E-03 | 6.78E-04 |
| 781 | 257890.2 | 4084791 | 0.007790075 | 1.19E-03 | 6.42E-04 |
| 782 | 257865.9 | 4084792 | 0.007314254 | 1.11E-03 | 6.03E-04 |
| 783 | 257841.6 | 4084793 | 0.006799757 | 1.04E-03 | 5.61E-04 |
| 784 | 257817.2 | 4084794 | 0.006250435 | 9.52E-04 | 5.15E-04 |
| 785 | 257792.9 | 4084795 | 0.005673108 | 8.64E-04 | 4.68E-04 |
| 786 | 257768.6 | 4084796 | 0.005077701 | 7.74E-04 | 4.19E-04 |
| 787 | 257744.2 | 4084797 | 0.004479479 | 6.82E-04 | 3.69E-04 |
| 788 | 257719.9 | 4084798 | 0.00389652 | 5.94E-04 | 3.21E-04 |
| 789 | 257695.6 | 4084799 | 0.003349718 | 5.10E-04 | 2.76E-04 |
| 790 | 257671.2 | 4084800 | 0.002859967 | 4.36E-04 | 2.36E-04 |
| 791 | 257646.9 | 4084801 | 0.002441345 | 3.72E-04 | 2.01E-04 |

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| 698 | 258015 | 4084861 | 0.0193848 | 2.95E-03 | 1.60E-03 |
| 699 | 257990.6 | 4084862 | 0.01911406 | 2.91E-03 | 1.58E-03 |
| 700 | 257966.3 | 4084863 | 0.01879384 | 2.86E-03 | 1.55E-03 |
| 701 | 257942 | 4084864 | 0.01841819 | 2.81E-03 | 1.52E-03 |
| 702 | 257917.6 | 4084865 | 0.01797956 | 2.74E-03 | 1.48E-03 |
| 703 | 257893.3 | 4084866 | 0.01746906 | 2.66E-03 | 1.44E-03 |
| 704 | 257869 | 4084867 | 0.01687692 | 2.57E-03 | 1.39E-03 |
| 705 | 257844.6 | 4084868 | 0.01619186 | 2.47E-03 | 1.33E-03 |
| 706 | 257820.3 | 4084869 | 0.01540203 | 2.35E-03 | 1.27E-03 |
| 707 | 257796 | 4084870 | 0.01449633 | 2.21E-03 | 1.19E-03 |
| 708 | 257771.6 | 4084871 | 0.01346392 | 2.05E-03 | 1.11E-03 |
| 709 | 257747.3 | 4084872 | 0.01229741 | 1.87E-03 | 1.01E-03 |
| 710 | 257723 | 4084873 | 0.01099724 | 1.68E-03 | 9.06E-04 |
| 711 | 257698.6 | 4084874 | 0.00957511 | 1.46E-03 | 7.89E-04 |
| 712 | 257674.3 | 4084875 | 0.008066885 | 1.23E-03 | 6.65E-04 |
| 713 | 257650 | 4084876 | 0.006546509 | 9.97E-04 | 5.40E-04 |
| 714 | 257625.6 | 4084877 | 0.005137864 | 7.83E-04 | 4.24E-04 |
| 715 | 257601.3 | 4084878 | 0.003988987 | 6.08E-04 | 3.29E-04 |
| 716 | 257577 | 4084879 | 0.003173971 | 4.84E-04 | 2.62E-04 |
| 717 | 257552.7 | 4084880 | 0.002634874 | 4.01E-04 | 2.17E-04 |
| 718 | 258372.7 | 4084829 | 0.01615215 | 2.46E-03 | 1.33E-03 |
| 719 | 258408.8 | 4084842 | 0.0170414 | 2.60E-03 | 1.40E-03 |
| 720 | 258434.8 | 4084866 | 0.01839788 | 2.80E-03 | 1.52E-03 |
| 721 | 258330.2 | 4084823 | 0.01568862 | 2.39E-03 | 1.29E-03 |
| 722 | 258305.9 | 4084824 | 0.01584007 | 2.41E-03 | 1.31E-03 |
| 723 | 258281.6 | 4084825 | 0.01593254 | 2.43E-03 | 1.31E-03 |
| 724 | 258257.3 | 4084826 | 0.01598781 | 2.44E-03 | 1.32E-03 |
| 725 | 258232.9 | 4084827 | 0.01601315 | 2.44E-03 | 1.32E-03 |
| 726 | 258208.6 | 4084828 | 0.01601107 | 2.44E-03 | 1.32E-03 |
| 727 | 258184.3 | 4084829 | 0.01598262 | 2.43E-03 | 1.32E-03 |
| 728 | 258159.9 | 4084830 | 0.01592779 | 2.43E-03 | 1.31E-03 |
| 729 | 258135.6 | 4084831 | 0.01584585 | 2.41E-03 | 1.31E-03 |
| 730 | 258111.3 | 4084832 | 0.0157356 | 2.40E-03 | 1.30E-03 |
| 731 | 258086.9 | 4084833 | 0.01559616 | 2.38E-03 | 1.29E-03 |
| 732 | 258062.6 | 4084834 | 0.01542545 | 2.35E-03 | 1.27E-03 |
| 733 | 258038.3 | 4084835 | 0.0152208 | 2.32E-03 | 1.25E-03 |
| 734 | 258013.9 | 4084836 | 0.01497911 | 2.28E-03 | 1.23E-03 |
| 735 | 257989.6 | 4084837 | 0.01469653 | 2.24E-03 | 1.21E-03 |
| 736 | 257965.3 | 4084838 | 0.0143683 | 2.19E-03 | 1.18E-03 |
| 737 | 257940.9 | 4084839 | 0.01398954 | 2.13E-03 | 1.15E-03 |
| 738 | 257916.6 | 4084840 | 0.01355447 | 2.06E-03 | 1.12E-03 |
| 739 | 257892.3 | 4084841 | 0.01305701 | 1.99E-03 | 1.08E-03 |
| 740 | 257867.9 | 4084842 | 0.01249079 | 1.90E-03 | 1.03E-03 |
| 741 | 257843.6 | 4084843 | 0.01184975 | 1.81E-03 | 9.77E-04 |
| 742 | 257819.3 | 4084844 | 0.01112913 | 1.70E-03 | 9.17E-04 |
| 743 | 257794.9 | 4084845 | 0.01032581 | 1.57E-03 | 8.51E-04 |
| 744 | 257770.6 | 4084846 | 0.009440113 | 1.44E-03 | 7.78E-04 |

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|---|---|---|---|---|---|
| 651 | 258308 | 4084874 | 0.02615195 | 3.98E-03 | 2.16E-03 |
| 652 | 258283.6 | 4084875 | 0.02644565 | 4.03E-03 | 2.18E-03 |
| 653 | 258259.3 | 4084876 | 0.02665059 | 4.06E-03 | 2.20E-03 |
| 654 | 258235 | 4084877 | 0.02679137 | 4.08E-03 | 2.21E-03 |
| 655 | 258210.6 | 4084878 | 0.02688087 | 4.10E-03 | 2.22E-03 |
| 656 | 258186.3 | 4084879 | 0.02692755 | 4.10E-03 | 2.22E-03 |
| 657 | 258162 | 4084880 | 0.02693526 | 4.10E-03 | 2.22E-03 |
| 658 | 258137.6 | 4084881 | 0.0269074 | 4.10E-03 | 2.22E-03 |
| 659 | 258113.3 | 4084882 | 0.02684872 | 4.09E-03 | 2.21E-03 |
| 660 | 258089 | 4084883 | 0.02675195 | 4.08E-03 | 2.21E-03 |
| 661 | 258064.6 | 4084884 | 0.02661873 | 4.06E-03 | 2.19E-03 |
| 662 | 258040.3 | 4084885 | 0.02644788 | 4.03E-03 | 2.18E-03 |
| 663 | 258016 | 4084886 | 0.02623419 | 4.00E-03 | 2.16E-03 |
| 664 | 257991.7 | 4084887 | 0.02597324 | 3.96E-03 | 2.14E-03 |
| 665 | 257967.3 | 4084888 | 0.02565954 | 3.91E-03 | 2.12E-03 |
| 666 | 257943 | 4084889 | 0.02528937 | 3.85E-03 | 2.08E-03 |
| 667 | 257918.7 | 4084890 | 0.02485771 | 3.79E-03 | 2.05E-03 |
| 668 | 257894.3 | 4084891 | 0.02434988 | 3.71E-03 | 2.01E-03 |
| 669 | 257870 | 4084892 | 0.02375091 | 3.62E-03 | 1.96E-03 |
| 670 | 257845.7 | 4084893 | 0.02304363 | 3.51E-03 | 1.90E-03 |
| 671 | 257821.3 | 4084894 | 0.0222089 | 3.38E-03 | 1.83E-03 |
| 672 | 257797 | 4084895 | 0.02122584 | 3.23E-03 | 1.75E-03 |
| 673 | 257772.7 | 4084896 | 0.02007089 | 3.06E-03 | 1.65E-03 |
| 674 | 257748.3 | 4084897 | 0.01871633 | 2.85E-03 | 1.54E-03 |
| 675 | 257724 | 4084898 | 0.01713535 | 2.61E-03 | 1.41E-03 |
| 676 | 257699.7 | 4084899 | 0.01530423 | 2.33E-03 | 1.26E-03 |
| 677 | 257675.3 | 4084900 | 0.01320964 | 2.01E-03 | 1.09E-03 |
| 678 | 257651 | 4084901 | 0.01087647 | 1.66E-03 | 8.97E-04 |
| 679 | 257626.7 | 4084902 | 0.0084249 | 1.28E-03 | 6.94E-04 |
| 680 | 257602.3 | 4084903 | 0.006152337 | 9.37E-04 | 5.07E-04 |
| 681 | 257578 | 4084904 | 0.004477256 | 6.82E-04 | 3.69E-04 |
| 682 | 257553.7 | 4084905 | 0.003487826 | 5.31E-04 | 2.88E-04 |
| 683 | 258373.7 | 4084854 | 0.02014128 | 3.07E-03 | 1.66E-03 |
| 684 | 258417.8 | 4084885 | 0.02277275 | 3.47E-03 | 1.88E-03 |
| 685 | 258331.3 | 4084848 | 0.01961567 | 2.99E-03 | 1.62E-03 |
| 686 | 258306.9 | 4084849 | 0.01987025 | 3.03E-03 | 1.64E-03 |
| 687 | 258282.6 | 4084850 | 0.02003933 | 3.05E-03 | 1.65E-03 |
| 688 | 258258.3 | 4084851 | 0.02015254 | 3.07E-03 | 1.66E-03 |
| 689 | 258233.9 | 4084852 | 0.02022249 | 3.08E-03 | 1.67E-03 |
| 690 | 258209.6 | 4084853 | 0.02025775 | 3.09E-03 | 1.67E-03 |
| 691 | 258185.3 | 4084854 | 0.02025761 | 3.09E-03 | 1.67E-03 |
| 692 | 258160.9 | 4084855 | 0.0202256 | 3.08E-03 | 1.67E-03 |
| 693 | 258136.6 | 4084856 | 0.02016366 | 3.07E-03 | 1.66E-03 |
| 694 | 258112.3 | 4084857 | 0.02007104 | 3.06E-03 | 1.65E-03 |
| 695 | 258088 | 4084858 | 0.01995071 | 3.04E-03 | 1.64E-03 |
| 696 | 258063.6 | 4084859 | 0.01979897 | 3.02E-03 | 1.63E-03 |
| 697 | 258039.3 | 4084860 | 0.01961167 | 2.99E-03 | 1.62E-03 |

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|---|---|---|---|---|---|
| 604 | 258475.7 | 4086598 | 0.000309558 | 4.72E-05 | 2.55E-05 |
| 605 | 258453.3 | 4086608 | 0.000312374 | 4.76E-05 | 2.57E-05 |
| 606 | 259863.8 | 4085076 | 0.000303483 | 4.62E-05 | 2.50E-05 |
| 607 | 259863.1 | 4085052 | 0.000307187 | 4.68E-05 | 2.53E-05 |
| 608 | 259862.4 | 4085027 | 0.000311929 | 4.75E-05 | 2.57E-05 |
| 609 | 259861.7 | 4085002 | 0.000318153 | 4.85E-05 | 2.62E-05 |
| 610 | 259860.9 | 4084977 | 0.00032571 | 4.96E-05 | 2.68E-05 |
| 611 | 259860.2 | 4084953 | 0.000334305 | 5.09E-05 | 2.76E-05 |
| 612 | 259859.5 | 4084928 | 0.000343937 | 5.24E-05 | 2.84E-05 |
| 613 | 259858.8 | 4084903 | 0.000354162 | 5.40E-05 | 2.92E-05 |
| 614 | 259858 | 4084878 | 0.000364387 | 5.55E-05 | 3.00E-05 |
| 615 | 258357.7 | 4084897 | 0.03534637 | 5.38E-03 | 2.91E-03 |
| 616 | 258333.3 | 4084898 | 0.03700042 | 5.64E-03 | 3.05E-03 |
| 617 | 258309 | 4084899 | 0.037859 | 5.77E-03 | 3.12E-03 |
| 618 | 258284.7 | 4084900 | 0.03842165 | 5.85E-03 | 3.17E-03 |
| 619 | 258260.3 | 4084901 | 0.03881998 | 5.91E-03 | 3.20E-03 |
| 620 | 258236 | 4084902 | 0.03909634 | 5.96E-03 | 3.22E-03 |
| 621 | 258211.7 | 4084903 | 0.03925875 | 5.98E-03 | 3.24E-03 |
| 622 | 258187.3 | 4084904 | 0.03934381 | 5.99E-03 | 3.24E-03 |
| 623 | 258163 | 4084905 | 0.03935226 | 6.00E-03 | 3.24E-03 |
| 624 | 258138.7 | 4084906 | 0.03932188 | 5.99E-03 | 3.24E-03 |
| 625 | 258114.3 | 4084907 | 0.03926245 | 5.98E-03 | 3.24E-03 |
| 626 | 258090 | 4084908 | 0.03916762 | 5.97E-03 | 3.23E-03 |
| 627 | 258065.7 | 4084909 | 0.0390344 | 5.95E-03 | 3.22E-03 |
| 628 | 258041.3 | 4084910 | 0.03887347 | 5.92E-03 | 3.20E-03 |
| 629 | 258017 | 4084911 | 0.03866972 | 5.89E-03 | 3.19E-03 |
| 630 | 257992.7 | 4084912 | 0.03842966 | 5.85E-03 | 3.17E-03 |
| 631 | 257968.3 | 4084913 | 0.03813788 | 5.81E-03 | 3.14E-03 |
| 632 | 257944 | 4084914 | 0.03779083 | 5.76E-03 | 3.12E-03 |
| 633 | 257919.7 | 4084915 | 0.03737992 | 5.69E-03 | 3.08E-03 |
| 634 | 257895.4 | 4084916 | 0.03688127 | 5.62E-03 | 3.04E-03 |
| 635 | 257871 | 4084917 | 0.03628483 | 5.53E-03 | 2.99E-03 |
| 636 | 257846.7 | 4084918 | 0.03556524 | 5.42E-03 | 2.93E-03 |
| 637 | 257822.4 | 4084919 | 0.03471466 | 5.29E-03 | 2.86E-03 |
| 638 | 257798 | 4084920 | 0.03367233 | 5.13E-03 | 2.78E-03 |
| 639 | 257773.7 | 4084921 | 0.03242121 | 4.94E-03 | 2.67E-03 |
| 640 | 257749.4 | 4084922 | 0.03091861 | 4.71E-03 | 2.55E-03 |
| 641 | 257725 | 4084923 | 0.02909861 | 4.43E-03 | 2.40E-03 |
| 642 | 257700.7 | 4084924 | 0.02688398 | 4.10E-03 | 2.22E-03 |
| 643 | 257676.4 | 4084925 | 0.0241682 | 3.68E-03 | 1.99E-03 |
| 644 | 257652 | 4084926 | 0.02083775 | 3.17E-03 | 1.72E-03 |
| 645 | 257627.7 | 4084927 | 0.01674859 | 2.55E-03 | 1.38E-03 |
| 646 | 257603.4 | 4084928 | 0.01197541 | 1.82E-03 | 9.87E-04 |
| 647 | 257579 | 4084929 | 0.007485704 | 1.14E-03 | 6.17E-04 |
| 648 | 257554.7 | 4084930 | 0.005060956 | 7.71E-04 | 4.17E-04 |
| 649 | 258374.7 | 4084879 | 0.02624531 | 4.00E-03 | 2.16E-03 |
| 650 | 258332.3 | 4084873 | 0.02571881 | 3.92E-03 | 2.12E-03 |

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|---|---|---|---|---|---|
| 557 | 259498.2 | 4086049 | 1.94E-04 | 2.96E-05 | 1.60E-05 |
| 558 | 259489.5 | 4086072 | 1.92E-04 | 2.93E-05 | 1.59E-05 |
| 559 | 259480.8 | 4086095 | 0.000190566 | 2.90E-05 | 1.57E-05 |
| 560 | 259472.1 | 4086118 | 0.000188936 | 2.88E-05 | 1.56E-05 |
| 561 | 259440.9 | 4086152 | 0.000189084 | 2.88E-05 | 1.56E-05 |
| 562 | 259418.5 | 4086162 | 0.000190862 | 2.91E-05 | 1.57E-05 |
| 563 | 259396 | 4086172 | 0.000192788 | 2.94E-05 | 1.59E-05 |
| 564 | 259373.6 | 4086183 | 0.000194715 | 2.97E-05 | 1.61E-05 |
| 565 | 259351.1 | 4086193 | 0.000196789 | 3.00E-05 | 1.62E-05 |
| 566 | 259328.7 | 4086203 | 0.000198716 | 3.03E-05 | 1.64E-05 |
| 567 | 259306.2 | 4086214 | 0.00020079 | 3.06E-05 | 1.66E-05 |
| 568 | 259283.8 | 4086224 | 0.000202865 | 3.09E-05 | 1.67E-05 |
| 569 | 259261.3 | 4086235 | 0.000205088 | 3.12E-05 | 1.69E-05 |
| 570 | 259238.9 | 4086245 | 0.000207459 | 3.16E-05 | 1.71E-05 |
| 571 | 259216.4 | 4086255 | 0.000209978 | 3.20E-05 | 1.73E-05 |
| 572 | 259194 | 4086266 | 0.000212645 | 3.24E-05 | 1.75E-05 |
| 573 | 259171.6 | 4086276 | 0.000215609 | 3.28E-05 | 1.78E-05 |
| 574 | 259149.1 | 4086286 | 0.000218869 | 3.33E-05 | 1.80E-05 |
| 575 | 259126.7 | 4086297 | 0.000222425 | 3.39E-05 | 1.83E-05 |
| 576 | 259104.2 | 4086307 | 0.000226426 | 3.45E-05 | 1.87E-05 |
| 577 | 259081.8 | 4086318 | 0.000230872 | 3.52E-05 | 1.90E-05 |
| 578 | 259059.3 | 4086328 | 0.000235614 | 3.59E-05 | 1.94E-05 |
| 579 | 259036.9 | 4086338 | 0.000240652 | 3.67E-05 | 1.98E-05 |
| 580 | 259014.4 | 4086349 | 0.000245839 | 3.75E-05 | 2.03E-05 |
| 581 | 258992 | 4086359 | 0.000251025 | 3.82E-05 | 2.07E-05 |
| 582 | 258969.5 | 4086370 | 0.000255915 | 3.90E-05 | 2.11E-05 |
| 583 | 258947.1 | 4086380 | 0.000260509 | 3.97E-05 | 2.15E-05 |
| 584 | 258924.6 | 4086390 | 0.000264362 | 4.03E-05 | 2.18E-05 |
| 585 | 258902.2 | 4086401 | 0.000267622 | 4.08E-05 | 2.21E-05 |
| 586 | 258879.8 | 4086411 | 0.000270289 | 4.12E-05 | 2.23E-05 |
| 587 | 258857.3 | 4086421 | 0.000272364 | 4.15E-05 | 2.25E-05 |
| 588 | 258834.9 | 4086432 | 0.000273994 | 4.17E-05 | 2.26E-05 |
| 589 | 258812.4 | 4086442 | 0.000275476 | 4.20E-05 | 2.27E-05 |
| 590 | 258790 | 4086453 | 0.000276661 | 4.21E-05 | 2.28E-05 |
| 591 | 258767.5 | 4086463 | 0.000277995 | 4.24E-05 | 2.29E-05 |
| 592 | 258745.1 | 4086473 | 0.000279328 | 4.26E-05 | 2.30E-05 |
| 593 | 258722.6 | 4086484 | 0.00028081 | 4.28E-05 | 2.31E-05 |
| 594 | 258700.2 | 4086494 | 0.00028244 | 4.30E-05 | 2.33E-05 |
| 595 | 258677.7 | 4086504 | 0.000284367 | 4.33E-05 | 2.34E-05 |
| 596 | 258655.3 | 4086515 | 0.000286589 | 4.37E-05 | 2.36E-05 |
| 597 | 258632.8 | 4086525 | 0.00028896 | 4.40E-05 | 2.38E-05 |
| 598 | 258610.4 | 4086536 | 0.00029148 | 4.44E-05 | 2.40E-05 |
| 599 | 258588 | 4086546 | 0.000294295 | 4.48E-05 | 2.43E-05 |
| 600 | 258565.5 | 4086556 | 0.000297259 | 4.53E-05 | 2.45E-05 |
| 601 | 258543.1 | 4086567 | 0.000300371 | 4.58E-05 | 2.48E-05 |
| 602 | 258520.6 | 4086577 | 0.000303483 | 4.62E-05 | 2.50E-05 |
| 603 | 258498.2 | 4086588 | 0.000306594 | 4.67E-05 | 2.53E-05 |

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|---|---|---|---|---|---|
| 510 | 259661.7 | 4085008 | 3.84E-04 | 5.85E-05 | 3.17E-05 |
| 511 | 259661 | 4084983 | 3.94E-04 | 6.00E-05 | 3.25E-05 |
| 512 | 259660.3 | 4084958 | 4.06E-04 | 6.18E-05 | 3.34E-05 |
| 513 | 259659.6 | 4084934 | 4.19E-04 | 6.38E-05 | 3.45E-05 |
| 514 | 259658.9 | 4084909 | 4.32E-04 | 6.58E-05 | 3.56E-05 |
| 515 | 259658.1 | 4084884 | 4.45E-04 | 6.78E-05 | 3.67E-05 |
| 516 | 259855.1 | 4085100 | 3.03E-04 | 4.62E-05 | 2.50E-05 |
| 517 | 259846.4 | 4085123 | 3.03E-04 | 4.61E-05 | 2.50E-05 |
| 518 | 259837.7 | 4085146 | 3.03E-04 | 4.61E-05 | 2.50E-05 |
| 519 | 259829 | 4085169 | 3.02E-04 | 4.61E-05 | 2.49E-05 |
| 520 | 259820.3 | 4085192 | 3.02E-04 | 4.60E-05 | 2.49E-05 |
| 521 | 259811.6 | 4085215 | 3.01E-04 | 4.58E-05 | 2.48E-05 |
| 522 | 259802.9 | 4085238 | 2.98E-04 | 4.54E-05 | 2.46E-05 |
| 523 | 259794.2 | 4085262 | 2.95E-04 | 4.50E-05 | 2.43E-05 |
| 524 | 259785.5 | 4085285 | 2.91E-04 | 4.44E-05 | 2.40E-05 |
| 525 | 259776.8 | 4085308 | 2.87E-04 | 4.37E-05 | 2.36E-05 |
| 526 | 259768.1 | 4085331 | 2.82E-04 | 4.29E-05 | 2.32E-05 |
| 527 | 259759.4 | 4085354 | 2.77E-04 | 4.21E-05 | 2.28E-05 |
| 528 | 259750.6 | 4085377 | 2.71E-04 | 4.14E-05 | 2.24E-05 |
| 529 | 259741.9 | 4085400 | 2.66E-04 | 4.06E-05 | 2.20E-05 |
| 530 | 259733.2 | 4085424 | 2.62E-04 | 3.98E-05 | 2.16E-05 |
| 531 | 259724.5 | 4085447 | 2.57E-04 | 3.91E-05 | 2.12E-05 |
| 532 | 259715.8 | 4085470 | 2.53E-04 | 3.85E-05 | 2.08E-05 |
| 533 | 259707.1 | 4085493 | 2.49E-04 | 3.79E-05 | 2.05E-05 |
| 534 | 259698.4 | 4085516 | 2.45E-04 | 3.73E-05 | 2.02E-05 |
| 535 | 259689.7 | 4085539 | 2.42E-04 | 3.68E-05 | 1.99E-05 |
| 536 | 259681 | 4085562 | 2.39E-04 | 3.64E-05 | 1.97E-05 |
| 537 | 259672.3 | 4085586 | 2.37E-04 | 3.60E-05 | 1.95E-05 |
| 538 | 259663.6 | 4085609 | 2.34E-04 | 3.57E-05 | 1.93E-05 |
| 539 | 259654.9 | 4085632 | 2.32E-04 | 3.54E-05 | 1.92E-05 |
| 540 | 259646.2 | 4085655 | 2.31E-04 | 3.51E-05 | 1.90E-05 |
| 541 | 259637.5 | 4085678 | 2.29E-04 | 3.49E-05 | 1.89E-05 |
| 542 | 259628.8 | 4085701 | 2.27E-04 | 3.47E-05 | 1.87E-05 |
| 543 | 259620.1 | 4085724 | 2.26E-04 | 3.44E-05 | 1.86E-05 |
| 544 | 259611.4 | 4085748 | 2.24E-04 | 3.41E-05 | 1.84E-05 |
| 545 | 259602.6 | 4085771 | 2.22E-04 | 3.39E-05 | 1.83E-05 |
| 546 | 259593.9 | 4085794 | 2.21E-04 | 3.36E-05 | 1.82E-05 |
| 547 | 259585.2 | 4085817 | 2.19E-04 | 3.33E-05 | 1.80E-05 |
| 548 | 259576.5 | 4085840 | 2.17E-04 | 3.31E-05 | 1.79E-05 |
| 549 | 259567.8 | 4085863 | 2.15E-04 | 3.28E-05 | 1.77E-05 |
| 550 | 259559.1 | 4085887 | 2.13E-04 | 3.24E-05 | 1.75E-05 |
| 551 | 259550.4 | 4085910 | 2.10E-04 | 3.20E-05 | 1.73E-05 |
| 552 | 259541.7 | 4085933 | 2.07E-04 | 3.16E-05 | 1.71E-05 |
| 553 | 259533 | 4085956 | 2.05E-04 | 3.12E-05 | 1.69E-05 |
| 554 | 259524.3 | 4085979 | 2.02E-04 | 3.07E-05 | 1.66E-05 |
| 555 | 259515.6 | 4086002 | 1.99E-04 | 3.03E-05 | 1.64E-05 |
| 556 | 259506.9 | 4086025 | 1.97E-04 | 3.00E-05 | 1.62E-05 |

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| 463 | 259360.2 | 4085890 | 2.36E-04 | 3.59E-05 | 1.94E-05 |
| 464 | 259351.5 | 4085913 | 2.32E-04 | 3.54E-05 | 1.92E-05 |
| 465 | 259342.9 | 4085936 | 2.29E-04 | 3.49E-05 | 1.89E-05 |
| 466 | 259334.2 | 4085959 | 2.27E-04 | 3.45E-05 | 1.87E-05 |
| 467 | 259325.5 | 4085982 | 2.25E-04 | 3.42E-05 | 1.85E-05 |
| 468 | 259294.5 | 4086015 | 2.25E-04 | 3.42E-05 | 1.85E-05 |
| 469 | 259272.1 | 4086026 | 2.27E-04 | 3.46E-05 | 1.87E-05 |
| 470 | 259249.7 | 4086036 | 2.30E-04 | 3.50E-05 | 1.89E-05 |
| 471 | 259227.3 | 4086046 | 2.32E-04 | 3.54E-05 | 1.91E-05 |
| 472 | 259205 | 4086057 | 2.34E-04 | 3.57E-05 | 1.93E-05 |
| 473 | 259182.6 | 4086067 | 2.37E-04 | 3.61E-05 | 1.95E-05 |
| 474 | 259160.2 | 4086077 | 2.39E-04 | 3.64E-05 | 1.97E-05 |
| 475 | 259137.9 | 4086088 | 2.42E-04 | 3.69E-05 | 1.99E-05 |
| 476 | 259115.5 | 4086098 | 2.45E-04 | 3.73E-05 | 2.02E-05 |
| 477 | 259093.1 | 4086108 | 2.48E-04 | 3.78E-05 | 2.04E-05 |
| 478 | 259070.7 | 4086119 | 2.51E-04 | 3.83E-05 | 2.07E-05 |
| 479 | 259048.4 | 4086129 | 2.55E-04 | 3.89E-05 | 2.10E-05 |
| 480 | 259026 | 4086139 | 2.60E-04 | 3.96E-05 | 2.14E-05 |
| 481 | 259003.6 | 4086150 | 2.65E-04 | 4.03E-05 | 2.18E-05 |
| 482 | 258981.3 | 4086160 | 2.70E-04 | 4.11E-05 | 2.23E-05 |
| 483 | 258958.9 | 4086171 | 2.76E-04 | 4.21E-05 | 2.28E-05 |
| 484 | 258936.5 | 4086181 | 2.82E-04 | 4.30E-05 | 2.33E-05 |
| 485 | 258914.2 | 4086191 | 2.89E-04 | 4.40E-05 | 2.38E-05 |
| 486 | 258891.8 | 4086202 | 2.95E-04 | 4.50E-05 | 2.43E-05 |
| 487 | 258869.4 | 4086212 | 3.01E-04 | 4.59E-05 | 2.48E-05 |
| 488 | 258847 | 4086222 | 3.07E-04 | 4.67E-05 | 2.53E-05 |
| 489 | 258824.7 | 4086233 | 3.11E-04 | 4.74E-05 | 2.57E-05 |
| 490 | 258802.3 | 4086243 | 3.15E-04 | 4.80E-05 | 2.60E-05 |
| 491 | 258779.9 | 4086253 | 3.18E-04 | 4.84E-05 | 2.62E-05 |
| 492 | 258757.6 | 4086264 | 3.20E-04 | 4.88E-05 | 2.64E-05 |
| 493 | 258735.2 | 4086274 | 3.23E-04 | 4.91E-05 | 2.66E-05 |
| 494 | 258712.8 | 4086284 | 3.25E-04 | 4.94E-05 | 2.68E-05 |
| 495 | 258690.4 | 4086295 | 3.26E-04 | 4.97E-05 | 2.69E-05 |
| 496 | 258668.1 | 4086305 | 3.29E-04 | 5.01E-05 | 2.71E-05 |
| 497 | 258645.7 | 4086315 | 3.31E-04 | 5.04E-05 | 2.73E-05 |
| 498 | 258623.3 | 4086326 | 3.34E-04 | 5.09E-05 | 2.75E-05 |
| 499 | 258601 | 4086336 | 3.37E-04 | 5.13E-05 | 2.78E-05 |
| 500 | 258578.6 | 4086346 | 3.41E-04 | 5.19E-05 | 2.81E-05 |
| 501 | 258556.2 | 4086357 | 3.44E-04 | 5.24E-05 | 2.84E-05 |
| 502 | 258533.8 | 4086367 | 3.48E-04 | 5.31E-05 | 2.87E-05 |
| 503 | 258511.5 | 4086377 | 3.52E-04 | 5.37E-05 | 2.90E-05 |
| 504 | 258489.1 | 4086388 | 3.57E-04 | 5.43E-05 | 2.94E-05 |
| 505 | 258466.7 | 4086398 | 3.61E-04 | 5.50E-05 | 2.98E-05 |
| 506 | 258444.4 | 4086408 | 3.65E-04 | 5.57E-05 | 3.01E-05 |
| 507 | 259663.9 | 4085082 | 3.63E-04 | 5.54E-05 | 3.00E-05 |
| 508 | 259663.2 | 4085057 | 3.69E-04 | 5.62E-05 | 3.04E-05 |
| 509 | 259662.5 | 4085033 | 3.76E-04 | 5.73E-05 | 3.10E-05 |

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| 416 | 258502.2 | 4086178 | 4.22E-04 | 6.44E-05 | 3.48E-05 |
| 417 | 258479.9 | 4086188 | 4.29E-04 | 6.53E-05 | 3.53E-05 |
| 418 | 258457.7 | 4086198 | 4.34E-04 | 6.62E-05 | 3.58E-05 |
| 419 | 258435.4 | 4086209 | 4.41E-04 | 6.73E-05 | 3.64E-05 |
| 420 | 259464 | 4085088 | 4.51E-04 | 6.87E-05 | 3.72E-05 |
| 421 | 259463.3 | 4085063 | 4.60E-04 | 7.00E-05 | 3.79E-05 |
| 422 | 259462.6 | 4085039 | 4.71E-04 | 7.17E-05 | 3.88E-05 |
| 423 | 259461.8 | 4085014 | 4.83E-04 | 7.36E-05 | 3.98E-05 |
| 424 | 259461.1 | 4084989 | 4.98E-04 | 7.59E-05 | 4.11E-05 |
| 425 | 259460.4 | 4084964 | 5.15E-04 | 7.84E-05 | 4.24E-05 |
| 426 | 259459.7 | 4084939 | 5.33E-04 | 8.12E-05 | 4.39E-05 |
| 427 | 259458.9 | 4084915 | 5.51E-04 | 8.40E-05 | 4.55E-05 |
| 428 | 259458.2 | 4084890 | 5.70E-04 | 8.68E-05 | 4.70E-05 |
| 429 | 259655.2 | 4085105 | 3.62E-04 | 5.52E-05 | 2.99E-05 |
| 430 | 259646.6 | 4085128 | 3.62E-04 | 5.51E-05 | 2.98E-05 |
| 431 | 259637.9 | 4085151 | 3.61E-04 | 5.50E-05 | 2.98E-05 |
| 432 | 259629.2 | 4085174 | 3.59E-04 | 5.47E-05 | 2.96E-05 |
| 433 | 259620.5 | 4085198 | 3.57E-04 | 5.44E-05 | 2.94E-05 |
| 434 | 259611.8 | 4085221 | 3.54E-04 | 5.39E-05 | 2.91E-05 |
| 435 | 259603.2 | 4085244 | 3.49E-04 | 5.32E-05 | 2.88E-05 |
| 436 | 259594.5 | 4085267 | 3.44E-04 | 5.24E-05 | 2.84E-05 |
| 437 | 259585.8 | 4085290 | 3.38E-04 | 5.15E-05 | 2.79E-05 |
| 438 | 259577.1 | 4085313 | 3.32E-04 | 5.05E-05 | 2.73E-05 |
| 439 | 259568.5 | 4085336 | 3.25E-04 | 4.95E-05 | 2.68E-05 |
| 440 | 259559.8 | 4085359 | 3.18E-04 | 4.85E-05 | 2.62E-05 |
| 441 | 259551.1 | 4085382 | 3.12E-04 | 4.75E-05 | 2.57E-05 |
| 442 | 259542.4 | 4085405 | 3.06E-04 | 4.66E-05 | 2.52E-05 |
| 443 | 259533.8 | 4085428 | 3.00E-04 | 4.58E-05 | 2.48E-05 |
| 444 | 259525.1 | 4085451 | 2.95E-04 | 4.50E-05 | 2.43E-05 |
| 445 | 259516.4 | 4085474 | 2.90E-04 | 4.42E-05 | 2.39E-05 |
| 446 | 259507.7 | 4085497 | 2.86E-04 | 4.36E-05 | 2.36E-05 |
| 447 | 259499 | 4085521 | 2.83E-04 | 4.31E-05 | 2.33E-05 |
| 448 | 259490.4 | 4085544 | 2.80E-04 | 4.26E-05 | 2.31E-05 |
| 449 | 259481.7 | 4085567 | 2.77E-04 | 4.22E-05 | 2.28E-05 |
| 450 | 259473 | 4085590 | 2.74E-04 | 4.18E-05 | 2.26E-05 |
| 451 | 259464.3 | 4085613 | 2.72E-04 | 4.14E-05 | 2.24E-05 |
| 452 | 259455.7 | 4085636 | 2.69E-04 | 4.10E-05 | 2.22E-05 |
| 453 | 259447 | 4085659 | 2.67E-04 | 4.07E-05 | 2.20E-05 |
| 454 | 259438.3 | 4085682 | 2.65E-04 | 4.03E-05 | 2.18E-05 |
| 455 | 259429.6 | 4085705 | 2.62E-04 | 3.99E-05 | 2.16E-05 |
| 456 | 259421 | 4085728 | 2.59E-04 | 3.95E-05 | 2.14E-05 |
| 457 | 259412.3 | 4085751 | 2.57E-04 | 3.91E-05 | 2.11E-05 |
| 458 | 259403.6 | 4085774 | 2.53E-04 | 3.86E-05 | 2.09E-05 |
| 459 | 259394.9 | 4085797 | 2.50E-04 | 3.81E-05 | 2.06E-05 |
| 460 | 259386.2 | 4085820 | 2.47E-04 | 3.76E-05 | 2.03E-05 |
| 461 | 259377.6 | 4085843 | 2.43E-04 | 3.70E-05 | 2.00E-05 |
| 462 | 259368.9 | 4085867 | 2.39E-04 | 3.64E-05 | 1.97E-05 |

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| 369 | 259325.8 | 4085455 | 3.53E-04 | 5.38E-05 | 2.91E-05 |
| 370 | 259317.2 | 4085478 | 3.48E-04 | 5.30E-05 | 2.87E-05 |
| 371 | 259308.5 | 4085501 | 3.43E-04 | 5.23E-05 | 2.83E-05 |
| 372 | 259299.9 | 4085524 | 3.39E-04 | 5.17E-05 | 2.80E-05 |
| 373 | 259291.2 | 4085547 | 3.35E-04 | 5.10E-05 | 2.76E-05 |
| 374 | 259282.6 | 4085570 | 3.31E-04 | 5.04E-05 | 2.73E-05 |
| 375 | 259274 | 4085593 | 3.27E-04 | 4.98E-05 | 2.69E-05 |
| 376 | 259265.3 | 4085616 | 3.23E-04 | 4.92E-05 | 2.66E-05 |
| 377 | 259256.7 | 4085639 | 3.18E-04 | 4.85E-05 | 2.62E-05 |
| 378 | 259248.1 | 4085662 | 3.14E-04 | 4.78E-05 | 2.59E-05 |
| 379 | 259239.4 | 4085685 | 3.09E-04 | 4.71E-05 | 2.55E-05 |
| 380 | 259230.8 | 4085708 | 3.04E-04 | 4.63E-05 | 2.51E-05 |
| 381 | 259222.1 | 4085731 | 2.99E-04 | 4.56E-05 | 2.46E-05 |
| 382 | 259213.5 | 4085754 | 2.94E-04 | 4.48E-05 | 2.42E-05 |
| 383 | 259204.9 | 4085777 | 2.89E-04 | 4.41E-05 | 2.38E-05 |
| 384 | 259196.2 | 4085800 | 2.85E-04 | 4.34E-05 | 2.35E-05 |
| 385 | 259187.6 | 4085823 | 2.81E-04 | 4.28E-05 | 2.31E-05 |
| 386 | 259179 | 4085846 | 2.77E-04 | 4.22E-05 | 2.28E-05 |
| 387 | 259148 | 4085879 | 2.77E-04 | 4.21E-05 | 2.28E-05 |
| 388 | 259125.8 | 4085889 | 2.80E-04 | 4.26E-05 | 2.31E-05 |
| 389 | 259103.5 | 4085900 | 2.83E-04 | 4.31E-05 | 2.33E-05 |
| 390 | 259081.2 | 4085910 | 2.87E-04 | 4.37E-05 | 2.36E-05 |
| 391 | 259059 | 4085920 | 2.90E-04 | 4.42E-05 | 2.39E-05 |
| 392 | 259036.7 | 4085931 | 2.94E-04 | 4.48E-05 | 2.42E-05 |
| 393 | 259014.4 | 4085941 | 2.98E-04 | 4.54E-05 | 2.45E-05 |
| 394 | 258992.2 | 4085951 | 3.02E-04 | 4.60E-05 | 2.49E-05 |
| 395 | 258969.9 | 4085962 | 3.06E-04 | 4.66E-05 | 2.52E-05 |
| 396 | 258947.6 | 4085972 | 3.10E-04 | 4.73E-05 | 2.56E-05 |
| 397 | 258925.3 | 4085982 | 3.16E-04 | 4.81E-05 | 2.60E-05 |
| 398 | 258903.1 | 4085992 | 3.22E-04 | 4.91E-05 | 2.65E-05 |
| 399 | 258880.8 | 4086003 | 3.29E-04 | 5.01E-05 | 2.71E-05 |
| 400 | 258858.5 | 4086013 | 3.37E-04 | 5.13E-05 | 2.78E-05 |
| 401 | 258836.3 | 4086023 | 3.45E-04 | 5.25E-05 | 2.84E-05 |
| 402 | 258814 | 4086034 | 3.53E-04 | 5.37E-05 | 2.91E-05 |
| 403 | 258791.7 | 4086044 | 3.60E-04 | 5.49E-05 | 2.97E-05 |
| 404 | 258769.5 | 4086054 | 3.67E-04 | 5.59E-05 | 3.03E-05 |
| 405 | 258747.2 | 4086065 | 3.73E-04 | 5.69E-05 | 3.08E-05 |
| 406 | 258724.9 | 4086075 | 3.79E-04 | 5.77E-05 | 3.12E-05 |
| 407 | 258702.6 | 4086085 | 3.83E-04 | 5.84E-05 | 3.16E-05 |
| 408 | 258680.4 | 4086095 | 3.87E-04 | 5.90E-05 | 3.19E-05 |
| 409 | 258658.1 | 4086106 | 3.91E-04 | 5.96E-05 | 3.22E-05 |
| 410 | 258635.8 | 4086116 | 3.95E-04 | 6.01E-05 | 3.25E-05 |
| 411 | 258613.6 | 4086126 | 3.99E-04 | 6.07E-05 | 3.29E-05 |
| 412 | 258591.3 | 4086137 | 4.03E-04 | 6.13E-05 | 3.32E-05 |
| 413 | 258569 | 4086147 | 4.07E-04 | 6.20E-05 | 3.36E-05 |
| 414 | 258546.8 | 4086157 | 4.12E-04 | 6.27E-05 | 3.39E-05 |
| 415 | 258524.5 | 4086168 | 4.17E-04 | 6.35E-05 | 3.44E-05 |

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| 322 | 258913.2 | 4085784 | 3.80E-04 | 5.79E-05 | 3.13E-05 |
| 323 | 258891 | 4085794 | 3.86E-04 | 5.88E-05 | 3.18E-05 |
| 324 | 258868.9 | 4085804 | 3.92E-04 | 5.98E-05 | 3.23E-05 |
| 325 | 258846.8 | 4085815 | 3.99E-04 | 6.08E-05 | 3.29E-05 |
| 326 | 258824.7 | 4085825 | 4.08E-04 | 6.21E-05 | 3.36E-05 |
| 327 | 258802.5 | 4085835 | 4.16E-04 | 6.34E-05 | 3.43E-05 |
| 328 | 258780.4 | 4085845 | 4.26E-04 | 6.49E-05 | 3.51E-05 |
| 329 | 258758.3 | 4085856 | 4.37E-04 | 6.65E-05 | 3.60E-05 |
| 330 | 258736.2 | 4085866 | 4.47E-04 | 6.81E-05 | 3.68E-05 |
| 331 | 258714 | 4085876 | 4.57E-04 | 6.96E-05 | 3.76E-05 |
| 332 | 258691.9 | 4085886 | 4.66E-04 | 7.10E-05 | 3.84E-05 |
| 333 | 258669.8 | 4085896 | 4.74E-04 | 7.22E-05 | 3.91E-05 |
| 334 | 258647.7 | 4085907 | 4.81E-04 | 7.33E-05 | 3.97E-05 |
| 335 | 258625.5 | 4085917 | 4.88E-04 | 7.43E-05 | 4.02E-05 |
| 336 | 258603.4 | 4085927 | 4.95E-04 | 7.54E-05 | 4.08E-05 |
| 337 | 258581.3 | 4085937 | 5.01E-04 | 7.64E-05 | 4.13E-05 |
| 338 | 258559.2 | 4085948 | 5.09E-04 | 7.75E-05 | 4.19E-05 |
| 339 | 258537 | 4085958 | 5.16E-04 | 7.87E-05 | 4.26E-05 |
| 340 | 258514.9 | 4085968 | 5.24E-04 | 7.99E-05 | 4.32E-05 |
| 341 | 258492.8 | 4085978 | 5.33E-04 | 8.12E-05 | 4.39E-05 |
| 342 | 258470.7 | 4085989 | 5.41E-04 | 8.25E-05 | 4.46E-05 |
| 343 | 258448.5 | 4085999 | 5.50E-04 | 8.38E-05 | 4.54E-05 |
| 344 | 258426.4 | 4086009 | 5.59E-04 | 8.52E-05 | 4.61E-05 |
| 345 | 259264.1 | 4085094 | 5.90E-04 | 8.99E-05 | 4.86E-05 |
| 346 | 259263.4 | 4085069 | 6.05E-04 | 9.22E-05 | 4.99E-05 |
| 347 | 259262.6 | 4085044 | 6.23E-04 | 9.49E-05 | 5.13E-05 |
| 348 | 259261.9 | 4085020 | 6.43E-04 | 9.79E-05 | 5.30E-05 |
| 349 | 259261.2 | 4084995 | 6.66E-04 | 1.01E-04 | 5.49E-05 |
| 350 | 259260.5 | 4084970 | 6.91E-04 | 1.05E-04 | 5.70E-05 |
| 351 | 259259.7 | 4084945 | 7.19E-04 | 1.09E-04 | 5.92E-05 |
| 352 | 259259 | 4084921 | 7.47E-04 | 1.14E-04 | 6.16E-05 |
| 353 | 259258.3 | 4084896 | 7.76E-04 | 1.18E-04 | 6.40E-05 |
| 354 | 259455.4 | 4085111 | 4.49E-04 | 6.84E-05 | 3.70E-05 |
| 355 | 259446.7 | 4085134 | 4.47E-04 | 6.81E-05 | 3.68E-05 |
| 356 | 259438.1 | 4085157 | 4.44E-04 | 6.76E-05 | 3.66E-05 |
| 357 | 259429.4 | 4085180 | 4.40E-04 | 6.71E-05 | 3.63E-05 |
| 358 | 259420.8 | 4085203 | 4.35E-04 | 6.63E-05 | 3.59E-05 |
| 359 | 259412.2 | 4085226 | 4.29E-04 | 6.53E-05 | 3.53E-05 |
| 360 | 259403.5 | 4085249 | 4.21E-04 | 6.42E-05 | 3.47E-05 |
| 361 | 259394.9 | 4085272 | 4.13E-04 | 6.29E-05 | 3.41E-05 |
| 362 | 259386.3 | 4085295 | 4.04E-04 | 6.16E-05 | 3.33E-05 |
| 363 | 259377.6 | 4085318 | 3.95E-04 | 6.02E-05 | 3.26E-05 |
| 364 | 259369 | 4085341 | 3.86E-04 | 5.88E-05 | 3.18E-05 |
| 365 | 259360.3 | 4085364 | 3.78E-04 | 5.76E-05 | 3.11E-05 |
| 366 | 259351.7 | 4085387 | 3.71E-04 | 5.65E-05 | 3.05E-05 |
| 367 | 259343.1 | 4085410 | 3.64E-04 | 5.54E-05 | 3.00E-05 |
| 368 | 259334.4 | 4085433 | 3.58E-04 | 5.45E-05 | 2.95E-05 |

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| 275 | 258548.8 | 4085749 | 6.73E-04 | 1.02E-04 | 5.55E-05 |
| 276 | 258526.8 | 4085759 | 6.84E-04 | 1.04E-04 | 5.64E-05 |
| 277 | 258504.9 | 4085769 | 6.96E-04 | 1.06E-04 | 5.74E-05 |
| 278 | 258483 | 4085779 | 7.10E-04 | 1.08E-04 | 5.85E-05 |
| 279 | 258461.1 | 4085789 | 7.25E-04 | 1.10E-04 | 5.97E-05 |
| 280 | 258439.2 | 4085799 | 7.40E-04 | 1.13E-04 | 6.10E-05 |
| 281 | 258417.3 | 4085809 | 7.56E-04 | 1.15E-04 | 6.23E-05 |
| 282 | 259064.2 | 4085100 | 8.29E-04 | 1.26E-04 | 6.84E-05 |
| 283 | 259063.4 | 4085075 | 8.60E-04 | 1.31E-04 | 7.09E-05 |
| 284 | 259062.7 | 4085050 | 8.94E-04 | 1.36E-04 | 7.37E-05 |
| 285 | 259062 | 4085025 | 9.32E-04 | 1.42E-04 | 7.68E-05 |
| 286 | 259061.3 | 4085001 | 9.73E-04 | 1.48E-04 | 8.02E-05 |
| 287 | 259060.6 | 4084976 | 1.02E-03 | 1.55E-04 | 8.40E-05 |
| 288 | 259059.8 | 4084951 | 1.07E-03 | 1.63E-04 | 8.80E-05 |
| 289 | 259059.1 | 4084926 | 1.12E-03 | 1.70E-04 | 9.22E-05 |
| 290 | 259058.4 | 4084902 | 1.17E-03 | 1.79E-04 | 9.67E-05 |
| 291 | 259255.5 | 4085117 | 5.85E-04 | 8.91E-05 | 4.82E-05 |
| 292 | 259246.9 | 4085139 | 5.79E-04 | 8.82E-05 | 4.77E-05 |
| 293 | 259238.3 | 4085162 | 5.72E-04 | 8.72E-05 | 4.72E-05 |
| 294 | 259229.8 | 4085185 | 5.63E-04 | 8.58E-05 | 4.64E-05 |
| 295 | 259221.2 | 4085208 | 5.52E-04 | 8.40E-05 | 4.55E-05 |
| 296 | 259212.6 | 4085231 | 5.40E-04 | 8.23E-05 | 4.45E-05 |
| 297 | 259204 | 4085254 | 5.28E-04 | 8.05E-05 | 4.35E-05 |
| 298 | 259195.4 | 4085276 | 5.16E-04 | 7.86E-05 | 4.25E-05 |
| 299 | 259186.8 | 4085299 | 5.04E-04 | 7.68E-05 | 4.16E-05 |
| 300 | 259178.3 | 4085322 | 4.93E-04 | 7.51E-05 | 4.06E-05 |
| 301 | 259169.7 | 4085345 | 4.82E-04 | 7.35E-05 | 3.98E-05 |
| 302 | 259161.1 | 4085368 | 4.73E-04 | 7.20E-05 | 3.90E-05 |
| 303 | 259152.5 | 4085390 | 4.64E-04 | 7.07E-05 | 3.82E-05 |
| 304 | 259143.9 | 4085413 | 4.56E-04 | 6.94E-05 | 3.76E-05 |
| 305 | 259135.4 | 4085436 | 4.48E-04 | 6.83E-05 | 3.69E-05 |
| 306 | 259126.8 | 4085459 | 4.41E-04 | 6.71E-05 | 3.63E-05 |
| 307 | 259118.2 | 4085482 | 4.33E-04 | 6.60E-05 | 3.57E-05 |
| 308 | 259109.6 | 4085505 | 4.26E-04 | 6.49E-05 | 3.51E-05 |
| 309 | 259101 | 4085527 | 4.19E-04 | 6.38E-05 | 3.45E-05 |
| 310 | 259092.4 | 4085550 | 4.11E-04 | 6.26E-05 | 3.39E-05 |
| 311 | 259083.9 | 4085573 | 4.04E-04 | 6.15E-05 | 3.33E-05 |
| 312 | 259075.3 | 4085596 | 3.96E-04 | 6.03E-05 | 3.26E-05 |
| 313 | 259066.7 | 4085619 | 3.88E-04 | 5.91E-05 | 3.20E-05 |
| 314 | 259058.1 | 4085641 | 3.81E-04 | 5.80E-05 | 3.14E-05 |
| 315 | 259049.5 | 4085664 | 3.74E-04 | 5.69E-05 | 3.08E-05 |
| 316 | 259041 | 4085687 | 3.67E-04 | 5.59E-05 | 3.03E-05 |
| 317 | 259032.4 | 4085710 | 3.61E-04 | 5.50E-05 | 2.98E-05 |
| 318 | 259001.7 | 4085743 | 3.60E-04 | 5.48E-05 | 2.97E-05 |
| 319 | 258979.5 | 4085753 | 3.64E-04 | 5.55E-05 | 3.00E-05 |
| 320 | 258957.4 | 4085763 | 3.69E-04 | 5.63E-05 | 3.04E-05 |
| 321 | 258935.3 | 4085774 | 3.74E-04 | 5.70E-05 | 3.09E-05 |

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| 228 | 258456.2 | 4085689 | 8.70E-04 | 1.33E-04 | 7.17E-05 |
| 229 | 258434.5 | 4085699 | 8.90E-04 | 1.36E-04 | 7.34E-05 |
| 230 | 258412.8 | 4085709 | 9.10E-04 | 1.39E-04 | 7.50E-05 |
| 231 | 258964.2 | 4085103 | 1.02E-03 | 1.56E-04 | 8.42E-05 |
| 232 | 258963.5 | 4085078 | 1.07E-03 | 1.63E-04 | 8.80E-05 |
| 233 | 258962.8 | 4085053 | 1.12E-03 | 1.70E-04 | 9.22E-05 |
| 234 | 258962 | 4085028 | 1.17E-03 | 1.79E-04 | 9.68E-05 |
| 235 | 258961.3 | 4085004 | 1.23E-03 | 1.88E-04 | 1.02E-04 |
| 236 | 258960.6 | 4084979 | 1.30E-03 | 1.98E-04 | 1.07E-04 |
| 237 | 258959.9 | 4084954 | 1.37E-03 | 2.09E-04 | 1.13E-04 |
| 238 | 258959.2 | 4084929 | 1.45E-03 | 2.20E-04 | 1.19E-04 |
| 239 | 258958.4 | 4084905 | 1.53E-03 | 2.32E-04 | 1.26E-04 |
| 240 | 259055.7 | 4085122 | 8.17E-04 | 1.24E-04 | 6.73E-05 |
| 241 | 259047.2 | 4085145 | 8.03E-04 | 1.22E-04 | 6.62E-05 |
| 242 | 259038.7 | 4085167 | 7.88E-04 | 1.20E-04 | 6.49E-05 |
| 243 | 259030.2 | 4085190 | 7.69E-04 | 1.17E-04 | 6.34E-05 |
| 244 | 259021.7 | 4085213 | 7.49E-04 | 1.14E-04 | 6.17E-05 |
| 245 | 259013.2 | 4085235 | 7.29E-04 | 1.11E-04 | 6.01E-05 |
| 246 | 259004.7 | 4085258 | 7.10E-04 | 1.08E-04 | 5.85E-05 |
| 247 | 258996.2 | 4085280 | 6.92E-04 | 1.05E-04 | 5.70E-05 |
| 248 | 258987.7 | 4085303 | 6.75E-04 | 1.03E-04 | 5.56E-05 |
| 249 | 258979.2 | 4085326 | 6.59E-04 | 1.00E-04 | 5.43E-05 |
| 250 | 258970.7 | 4085348 | 6.43E-04 | 9.80E-05 | 5.30E-05 |
| 251 | 258962.2 | 4085371 | 6.29E-04 | 9.58E-05 | 5.18E-05 |
| 252 | 258953.7 | 4085393 | 6.14E-04 | 9.36E-05 | 5.06E-05 |
| 253 | 258945.2 | 4085416 | 6.00E-04 | 9.14E-05 | 4.94E-05 |
| 254 | 258936.7 | 4085438 | 5.86E-04 | 8.92E-05 | 4.83E-05 |
| 255 | 258928.2 | 4085461 | 5.72E-04 | 8.71E-05 | 4.71E-05 |
| 256 | 258919.8 | 4085484 | 5.58E-04 | 8.50E-05 | 4.60E-05 |
| 257 | 258911.3 | 4085506 | 5.44E-04 | 8.29E-05 | 4.49E-05 |
| 258 | 258902.8 | 4085529 | 5.32E-04 | 8.10E-05 | 4.38E-05 |
| 259 | 258894.3 | 4085551 | 5.20E-04 | 7.92E-05 | 4.28E-05 |
| 260 | 258885.8 | 4085574 | 5.09E-04 | 7.75E-05 | 4.19E-05 |
| 261 | 258855.4 | 4085607 | 5.06E-04 | 7.71E-05 | 4.17E-05 |
| 262 | 258833.5 | 4085617 | 5.14E-04 | 7.84E-05 | 4.24E-05 |
| 263 | 258811.6 | 4085627 | 5.23E-04 | 7.97E-05 | 4.31E-05 |
| 264 | 258789.7 | 4085637 | 5.33E-04 | 8.12E-05 | 4.39E-05 |
| 265 | 258767.8 | 4085647 | 5.43E-04 | 8.27E-05 | 4.48E-05 |
| 266 | 258745.9 | 4085657 | 5.55E-04 | 8.45E-05 | 4.57E-05 |
| 267 | 258724 | 4085667 | 5.68E-04 | 8.65E-05 | 4.68E-05 |
| 268 | 258702.1 | 4085678 | 5.82E-04 | 8.87E-05 | 4.80E-05 |
| 269 | 258680.2 | 4085688 | 5.97E-04 | 9.10E-05 | 4.92E-05 |
| 270 | 258658.3 | 4085698 | 6.12E-04 | 9.33E-05 | 5.05E-05 |
| 271 | 258636.4 | 4085708 | 6.27E-04 | 9.55E-05 | 5.17E-05 |
| 272 | 258614.5 | 4085718 | 6.40E-04 | 9.74E-05 | 5.27E-05 |
| 273 | 258592.6 | 4085728 | 6.51E-04 | 9.92E-05 | 5.37E-05 |
| 274 | 258570.7 | 4085738 | 6.62E-04 | 1.01E-04 | 5.46E-05 |

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| 181 | 258494.1 | 4085570 | 1.05E-03 | 1.60E-04 | 8.65E-05 |
| 182 | 258472.6 | 4085580 | 1.07E-03 | 1.63E-04 | 8.83E-05 |
| 183 | 258451.1 | 4085590 | 1.10E-03 | 1.67E-04 | 9.03E-05 |
| 184 | 258429.6 | 4085600 | 1.12E-03 | 1.71E-04 | 9.25E-05 |
| 185 | 258408.1 | 4085610 | 1.15E-03 | 1.75E-04 | 9.48E-05 |
| 186 | 258864.3 | 4085106 | 1.30E-03 | 1.99E-04 | 1.07E-04 |
| 187 | 258863.5 | 4085081 | 1.38E-03 | 2.10E-04 | 1.13E-04 |
| 188 | 258862.8 | 4085056 | 1.46E-03 | 2.22E-04 | 1.20E-04 |
| 189 | 258862.1 | 4085031 | 1.54E-03 | 2.35E-04 | 1.27E-04 |
| 190 | 258861.4 | 4085007 | 1.64E-03 | 2.50E-04 | 1.35E-04 |
| 191 | 258860.6 | 4084982 | 1.74E-03 | 2.65E-04 | 1.43E-04 |
| 192 | 258859.9 | 4084957 | 1.85E-03 | 2.82E-04 | 1.53E-04 |
| 193 | 258859.2 | 4084932 | 1.97E-03 | 3.00E-04 | 1.62E-04 |
| 194 | 258858.5 | 4084907 | 2.09E-03 | 3.18E-04 | 1.72E-04 |
| 195 | 258955.8 | 4085125 | 1.00E-03 | 1.53E-04 | 8.26E-05 |
| 196 | 258947.3 | 4085147 | 9.81E-04 | 1.49E-04 | 8.08E-05 |
| 197 | 258938.9 | 4085170 | 9.58E-04 | 1.46E-04 | 7.89E-05 |
| 198 | 258930.5 | 4085192 | 9.33E-04 | 1.42E-04 | 7.69E-05 |
| 199 | 258922.1 | 4085215 | 9.08E-04 | 1.38E-04 | 7.49E-05 |
| 200 | 258913.6 | 4085237 | 8.83E-04 | 1.34E-04 | 7.28E-05 |
| 201 | 258905.2 | 4085260 | 8.58E-04 | 1.31E-04 | 7.07E-05 |
| 202 | 258896.8 | 4085282 | 8.32E-04 | 1.27E-04 | 6.85E-05 |
| 203 | 258888.3 | 4085304 | 8.06E-04 | 1.23E-04 | 6.64E-05 |
| 204 | 258879.9 | 4085327 | 7.84E-04 | 1.19E-04 | 6.46E-05 |
| 205 | 258871.5 | 4085349 | 7.63E-04 | 1.16E-04 | 6.29E-05 |
| 206 | 258863 | 4085372 | 7.42E-04 | 1.13E-04 | 6.11E-05 |
| 207 | 258854.6 | 4085394 | 7.21E-04 | 1.10E-04 | 5.94E-05 |
| 208 | 258846.2 | 4085416 | 7.01E-04 | 1.07E-04 | 5.78E-05 |
| 209 | 258837.7 | 4085439 | 6.82E-04 | 1.04E-04 | 5.62E-05 |
| 210 | 258829.3 | 4085461 | 6.63E-04 | 1.01E-04 | 5.47E-05 |
| 211 | 258820.9 | 4085484 | 6.46E-04 | 9.84E-05 | 5.33E-05 |
| 212 | 258812.4 | 4085506 | 6.30E-04 | 9.60E-05 | 5.19E-05 |
| 213 | 258782.3 | 4085539 | 6.27E-04 | 9.54E-05 | 5.16E-05 |
| 214 | 258760.5 | 4085549 | 6.39E-04 | 9.73E-05 | 5.26E-05 |
| 215 | 258738.8 | 4085559 | 6.51E-04 | 9.92E-05 | 5.37E-05 |
| 216 | 258717.1 | 4085569 | 6.65E-04 | 1.01E-04 | 5.49E-05 |
| 217 | 258695.3 | 4085579 | 6.81E-04 | 1.04E-04 | 5.62E-05 |
| 218 | 258673.6 | 4085589 | 6.99E-04 | 1.06E-04 | 5.76E-05 |
| 219 | 258651.9 | 4085599 | 7.18E-04 | 1.09E-04 | 5.92E-05 |
| 220 | 258630.1 | 4085609 | 7.38E-04 | 1.12E-04 | 6.08E-05 |
| 221 | 258608.4 | 4085619 | 7.57E-04 | 1.15E-04 | 6.24E-05 |
| 222 | 258586.6 | 4085629 | 7.75E-04 | 1.18E-04 | 6.39E-05 |
| 223 | 258564.9 | 4085639 | 7.93E-04 | 1.21E-04 | 6.53E-05 |
| 224 | 258543.2 | 4085649 | 8.08E-04 | 1.23E-04 | 6.66E-05 |
| 225 | 258521.4 | 4085659 | 8.20E-04 | 1.25E-04 | 6.76E-05 |
| 226 | 258499.7 | 4085669 | 8.38E-04 | 1.28E-04 | 6.91E-05 |
| 227 | 258478 | 4085679 | 8.54E-04 | 1.30E-04 | 7.04E-05 |

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| 134 | 258665.7 | 4085371 | 1.11E-03 | 1.69E-04 | 9.16E-05 |
| 135 | 258636.3 | 4085402 | 1.11E-03 | 1.68E-04 | 9.11E-05 |
| 136 | 258615.1 | 4085412 | 1.14E-03 | 1.73E-04 | 9.38E-05 |
| 137 | 258594 | 4085422 | 1.17E-03 | 1.79E-04 | 9.67E-05 |
| 138 | 258572.8 | 4085432 | 1.21E-03 | 1.85E-04 | 9.99E-05 |
| 139 | 258551.6 | 4085441 | 1.25E-03 | 1.91E-04 | 1.03E-04 |
| 140 | 258530.4 | 4085451 | 1.29E-03 | 1.97E-04 | 1.07E-04 |
| 141 | 258509.2 | 4085461 | 1.33E-03 | 2.03E-04 | 1.10E-04 |
| 142 | 258488.1 | 4085471 | 1.37E-03 | 2.08E-04 | 1.13E-04 |
| 143 | 258466.9 | 4085481 | 1.40E-03 | 2.14E-04 | 1.16E-04 |
| 144 | 258445.7 | 4085490 | 1.44E-03 | 2.19E-04 | 1.19E-04 |
| 145 | 258424.5 | 4085500 | 1.48E-03 | 2.25E-04 | 1.22E-04 |
| 146 | 258403.3 | 4085510 | 1.52E-03 | 2.31E-04 | 1.25E-04 |
| 147 | 258764.3 | 4085108 | 1.74E-03 | 2.66E-04 | 1.44E-04 |
| 148 | 258763.6 | 4085084 | 1.87E-03 | 2.84E-04 | 1.54E-04 |
| 149 | 258762.8 | 4085059 | 2.00E-03 | 3.05E-04 | 1.65E-04 |
| 150 | 258762.1 | 4085034 | 2.15E-03 | 3.28E-04 | 1.78E-04 |
| 151 | 258761.4 | 4085009 | 2.32E-03 | 3.53E-04 | 1.91E-04 |
| 152 | 258760.7 | 4084985 | 2.49E-03 | 3.79E-04 | 2.05E-04 |
| 153 | 258760 | 4084960 | 2.68E-03 | 4.08E-04 | 2.21E-04 |
| 154 | 258759.2 | 4084935 | 2.87E-03 | 4.37E-04 | 2.37E-04 |
| 155 | 258758.5 | 4084910 | 3.06E-03 | 4.67E-04 | 2.53E-04 |
| 156 | 258855.9 | 4085128 | 1.27E-03 | 1.94E-04 | 1.05E-04 |
| 157 | 258847.6 | 4085150 | 1.24E-03 | 1.89E-04 | 1.02E-04 |
| 158 | 258839.2 | 4085172 | 1.20E-03 | 1.83E-04 | 9.92E-05 |
| 159 | 258830.9 | 4085194 | 1.17E-03 | 1.78E-04 | 9.62E-05 |
| 160 | 258822.5 | 4085216 | 1.13E-03 | 1.72E-04 | 9.32E-05 |
| 161 | 258814.2 | 4085239 | 1.09E-03 | 1.67E-04 | 9.02E-05 |
| 162 | 258805.8 | 4085261 | 1.06E-03 | 1.61E-04 | 8.73E-05 |
| 163 | 258797.5 | 4085283 | 1.03E-03 | 1.56E-04 | 8.45E-05 |
| 164 | 258789.2 | 4085305 | 9.91E-04 | 1.51E-04 | 8.17E-05 |
| 165 | 258780.8 | 4085327 | 9.53E-04 | 1.45E-04 | 7.86E-05 |
| 166 | 258772.5 | 4085350 | 9.21E-04 | 1.40E-04 | 7.59E-05 |
| 167 | 258764.1 | 4085372 | 8.91E-04 | 1.36E-04 | 7.35E-05 |
| 168 | 258755.8 | 4085394 | 8.63E-04 | 1.31E-04 | 7.12E-05 |
| 169 | 258747.4 | 4085416 | 8.37E-04 | 1.27E-04 | 6.90E-05 |
| 170 | 258739.1 | 4085438 | 8.12E-04 | 1.24E-04 | 6.69E-05 |
| 171 | 258709.2 | 4085470 | 8.07E-04 | 1.23E-04 | 6.65E-05 |
| 172 | 258687.7 | 4085480 | 8.25E-04 | 1.26E-04 | 6.80E-05 |
| 173 | 258666.2 | 4085490 | 8.46E-04 | 1.29E-04 | 6.97E-05 |
| 174 | 258644.7 | 4085500 | 8.68E-04 | 1.32E-04 | 7.16E-05 |
| 175 | 258623.2 | 4085510 | 8.94E-04 | 1.36E-04 | 7.37E-05 |
| 176 | 258601.7 | 4085520 | 9.22E-04 | 1.40E-04 | 7.60E-05 |
| 177 | 258580.2 | 4085530 | 9.50E-04 | 1.45E-04 | 7.83E-05 |
| 178 | 258558.7 | 4085540 | 9.79E-04 | 1.49E-04 | 8.07E-05 |
| 179 | 258537.2 | 4085550 | 1.01E-03 | 1.53E-04 | 8.29E-05 |
| 180 | 258515.7 | 4085560 | 1.03E-03 | 1.57E-04 | 8.47E-05 |

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| 87 | 258614.4 | 4085113 | 3.08E-03 | 4.69E-04 | 2.54E-04 |
| 88 | 258613.6 | 4085088 | 3.42E-03 | 5.21E-04 | 2.82E-04 |
| 89 | 258612.9 | 4085063 | 3.81E-03 | 5.80E-04 | 3.14E-04 |
| 90 | 258612.2 | 4085039 | 4.24E-03 | 6.46E-04 | 3.50E-04 |
| 91 | 258611.5 | 4085014 | 4.71E-03 | 7.18E-04 | 3.89E-04 |
| 92 | 258610.7 | 4084989 | 5.20E-03 | 7.93E-04 | 4.29E-04 |
| 93 | 258610 | 4084964 | 5.69E-03 | 8.67E-04 | 4.69E-04 |
| 94 | 258609.3 | 4084940 | 6.15E-03 | 9.37E-04 | 5.07E-04 |
| 95 | 258608.6 | 4084915 | 6.54E-03 | 9.97E-04 | 5.39E-04 |
| 96 | 258656.3 | 4085133 | 2.39E-03 | 3.64E-04 | 1.97E-04 |
| 97 | 258648.3 | 4085154 | 2.29E-03 | 3.49E-04 | 1.89E-04 |
| 98 | 258640.3 | 4085175 | 2.19E-03 | 3.33E-04 | 1.80E-04 |
| 99 | 258632.3 | 4085197 | 2.08E-03 | 3.18E-04 | 1.72E-04 |
| 100 | 258624.3 | 4085218 | 1.99E-03 | 3.02E-04 | 1.64E-04 |
| 101 | 258616.3 | 4085239 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 102 | 258608.3 | 4085260 | 1.80E-03 | 2.74E-04 | 1.49E-04 |
| 103 | 258600.3 | 4085282 | 1.72E-03 | 2.62E-04 | 1.42E-04 |
| 104 | 258592.3 | 4085303 | 1.64E-03 | 2.50E-04 | 1.35E-04 |
| 105 | 258563.6 | 4085334 | 1.63E-03 | 2.48E-04 | 1.34E-04 |
| 106 | 258542.9 | 4085343 | 1.69E-03 | 2.57E-04 | 1.39E-04 |
| 107 | 258522.3 | 4085353 | 1.75E-03 | 2.67E-04 | 1.44E-04 |
| 108 | 258501.6 | 4085363 | 1.82E-03 | 2.77E-04 | 1.50E-04 |
| 109 | 258481 | 4085372 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 110 | 258460.3 | 4085382 | 1.95E-03 | 2.97E-04 | 1.61E-04 |
| 111 | 258439.7 | 4085391 | 2.01E-03 | 3.07E-04 | 1.66E-04 |
| 112 | 258419 | 4085401 | 2.08E-03 | 3.17E-04 | 1.71E-04 |
| 113 | 258398.4 | 4085410 | 2.15E-03 | 3.27E-04 | 1.77E-04 |
| 114 | 258664.3 | 4085111 | 2.49E-03 | 3.80E-04 | 2.05E-04 |
| 115 | 258663.6 | 4085087 | 2.72E-03 | 4.15E-04 | 2.25E-04 |
| 116 | 258662.9 | 4085062 | 2.99E-03 | 4.55E-04 | 2.46E-04 |
| 117 | 258662.2 | 4085037 | 3.28E-03 | 4.99E-04 | 2.70E-04 |
| 118 | 258661.4 | 4085012 | 3.59E-03 | 5.47E-04 | 2.96E-04 |
| 119 | 258660.7 | 4084988 | 3.93E-03 | 5.99E-04 | 3.24E-04 |
| 120 | 258660 | 4084963 | 4.27E-03 | 6.51E-04 | 3.52E-04 |
| 121 | 258659.3 | 4084938 | 4.62E-03 | 7.03E-04 | 3.81E-04 |
| 122 | 258658.6 | 4084913 | 4.93E-03 | 7.52E-04 | 4.07E-04 |
| 123 | 258756.1 | 4085130 | 1.69E-03 | 2.57E-04 | 1.39E-04 |
| 124 | 258747.9 | 4085152 | 1.63E-03 | 2.49E-04 | 1.35E-04 |
| 125 | 258739.6 | 4085174 | 1.58E-03 | 2.40E-04 | 1.30E-04 |
| 126 | 258731.4 | 4085196 | 1.52E-03 | 2.32E-04 | 1.25E-04 |
| 127 | 258723.2 | 4085218 | 1.46E-03 | 2.23E-04 | 1.21E-04 |
| 128 | 258715 | 4085239 | 1.41E-03 | 2.14E-04 | 1.16E-04 |
| 129 | 258706.8 | 4085261 | 1.35E-03 | 2.06E-04 | 1.11E-04 |
| 130 | 258698.6 | 4085283 | 1.30E-03 | 1.98E-04 | 1.07E-04 |
| 131 | 258690.4 | 4085305 | 1.25E-03 | 1.90E-04 | 1.03E-04 |
| 132 | 258682.1 | 4085327 | 1.20E-03 | 1.82E-04 | 9.86E-05 |
| 133 | 258673.9 | 4085349 | 1.15E-03 | 1.76E-04 | 9.51E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 40 | 258459.4 | 4084944 | 1.93E-02 | 2.94E-03 | 1.59E-03 |
| 41 | 258458.6 | 4084919 | 1.91E-02 | 2.91E-03 | 1.57E-03 |
| 42 | 258506.4 | 4085137 | 4.84E-03 | 7.37E-04 | 3.99E-04 |
| 43 | 258498.4 | 4085158 | 4.47E-03 | 6.81E-04 | 3.68E-04 |
| 44 | 258490.4 | 4085180 | 4.13E-03 | 6.29E-04 | 3.41E-04 |
| 45 | 258482.4 | 4085201 | 3.83E-03 | 5.84E-04 | 3.16E-04 |
| 46 | 258453.7 | 4085232 | 3.77E-03 | 5.75E-04 | 3.11E-04 |
| 47 | 258433.1 | 4085241 | 3.99E-03 | 6.09E-04 | 3.29E-04 |
| 48 | 258412.4 | 4085251 | 4.22E-03 | 6.43E-04 | 3.48E-04 |
| 49 | 258391.8 | 4085260 | 4.45E-03 | 6.77E-04 | 3.66E-04 |
| 50 | 258514.4 | 4085116 | 5.23E-03 | 7.96E-04 | 4.31E-04 |
| 51 | 258513.7 | 4085091 | 6.12E-03 | 9.32E-04 | 5.05E-04 |
| 52 | 258513 | 4085066 | 7.19E-03 | 1.10E-03 | 5.93E-04 |
| 53 | 258512.2 | 4085041 | 8.40E-03 | 1.28E-03 | 6.92E-04 |
| 54 | 258511.5 | 4085017 | 9.64E-03 | 1.47E-03 | 7.95E-04 |
| 55 | 258510.8 | 4084992 | 1.08E-02 | 1.64E-03 | 8.90E-04 |
| 56 | 258510.1 | 4084967 | 1.18E-02 | 1.79E-03 | 9.69E-04 |
| 57 | 258509.3 | 4084942 | 1.24E-02 | 1.90E-03 | 1.03E-03 |
| 58 | 258508.6 | 4084918 | 1.28E-02 | 1.95E-03 | 1.05E-03 |
| 59 | 258556.8 | 4085135 | 3.71E-03 | 5.65E-04 | 3.05E-04 |
| 60 | 258541.5 | 4085175 | 3.28E-03 | 5.00E-04 | 2.70E-04 |
| 61 | 258526.2 | 4085216 | 2.90E-03 | 4.42E-04 | 2.39E-04 |
| 62 | 258491.3 | 4085265 | 2.71E-03 | 4.12E-04 | 2.23E-04 |
| 63 | 258452 | 4085284 | 2.96E-03 | 4.52E-04 | 2.44E-04 |
| 64 | 258412.6 | 4085302 | 3.23E-03 | 4.92E-04 | 2.66E-04 |
| 65 | 258563.7 | 4085090 | 4.45E-03 | 6.79E-04 | 3.67E-04 |
| 66 | 258562.9 | 4085065 | 5.07E-03 | 7.72E-04 | 4.18E-04 |
| 67 | 258562.2 | 4085040 | 5.76E-03 | 8.78E-04 | 4.75E-04 |
| 68 | 258561.5 | 4085015 | 6.50E-03 | 9.91E-04 | 5.36E-04 |
| 69 | 258560.8 | 4084990 | 7.25E-03 | 1.10E-03 | 5.97E-04 |
| 70 | 258560 | 4084966 | 7.94E-03 | 1.21E-03 | 6.55E-04 |
| 71 | 258559.3 | 4084941 | 8.54E-03 | 1.30E-03 | 7.04E-04 |
| 72 | 258558.6 | 4084916 | 8.97E-03 | 1.37E-03 | 7.40E-04 |
| 73 | 258606 | 4085135 | 2.93E-03 | 4.46E-04 | 2.41E-04 |
| 74 | 258597.7 | 4085157 | 2.77E-03 | 4.22E-04 | 2.28E-04 |
| 75 | 258589.3 | 4085179 | 2.62E-03 | 3.99E-04 | 2.16E-04 |
| 76 | 258581 | 4085202 | 2.47E-03 | 3.76E-04 | 2.04E-04 |
| 77 | 258572.6 | 4085224 | 2.33E-03 | 3.55E-04 | 1.92E-04 |
| 78 | 258564.3 | 4085246 | 2.20E-03 | 3.36E-04 | 1.82E-04 |
| 79 | 258556 | 4085268 | 2.08E-03 | 3.18E-04 | 1.72E-04 |
| 80 | 258526.1 | 4085300 | 2.06E-03 | 3.14E-04 | 1.70E-04 |
| 81 | 258504.6 | 4085310 | 2.15E-03 | 3.28E-04 | 1.78E-04 |
| 82 | 258483.1 | 4085320 | 2.25E-03 | 3.43E-04 | 1.86E-04 |
| 83 | 258461.6 | 4085330 | 2.35E-03 | 3.58E-04 | 1.94E-04 |
| 84 | 258440.1 | 4085340 | 2.44E-03 | 3.72E-04 | 2.02E-04 |
| 85 | 258418.5 | 4085350 | 2.54E-03 | 3.87E-04 | 2.09E-04 |
| 86 | 258397 | 4085360 | 2.64E-03 | 4.02E-04 | 2.17E-04 |

| | | | | | 2830 |
|---|---|---|---|---|---|
| | | | 2823 | 256582.52 | 4085895.32 |
| | Max Yr | 2 | UnMitigated | T2L3 | T4 |
| | Row | 33 | 9.75E-04 | 1.49E-04 | 8.04E-05 |
| | | Col | 3 | 4 | 5 |
| | | Adjustment | 100% | 15% | 8% |
| | | | Year 2 | Year 2 | Year 2 |
| 1 | 258389.5 | 4085119 | 1.73E-02 | 2.63E-03 | 1.42E-03 |
| 2 | 258388.7 | 4085095 | 2.75E-02 | 4.19E-03 | 2.27E-03 |
| 3 | 258388 | 4085070 | 3.82E-02 | 5.81E-03 | 3.15E-03 |
| 4 | 258387.3 | 4085045 | 4.49E-02 | 6.84E-03 | 3.70E-03 |
| 5 | 258386.6 | 4085020 | 4.88E-02 | 7.43E-03 | 4.02E-03 |
| 6 | 258385.8 | 4084996 | 5.06E-02 | 7.71E-03 | 4.17E-03 |
| 7 | 258385.1 | 4084971 | 5.06E-02 | 7.71E-03 | 4.17E-03 |
| 8 | 258384.4 | 4084946 | 4.86E-02 | 7.40E-03 | 4.00E-03 |
| 9 | 258383.7 | 4084921 | 4.19E-02 | 6.38E-03 | 3.45E-03 |
| 10 | 258407.8 | 4085136 | 1.06E-02 | 1.62E-03 | 8.76E-04 |
| 11 | 258383.9 | 4085162 | 1.03E-02 | 1.56E-03 | 8.46E-04 |
| 12 | 258413.7 | 4085094 | 1.70E-02 | 2.58E-03 | 1.40E-03 |
| 13 | 258413 | 4085069 | 2.28E-02 | 3.47E-03 | 1.88E-03 |
| 14 | 258412.3 | 4085044 | 2.77E-02 | 4.22E-03 | 2.28E-03 |
| 15 | 258411.6 | 4085020 | 3.12E-02 | 4.76E-03 | 2.57E-03 |
| 16 | 258410.8 | 4084995 | 3.33E-02 | 5.08E-03 | 2.75E-03 |
| 17 | 258410.1 | 4084970 | 3.42E-02 | 5.20E-03 | 2.82E-03 |
| 18 | 258409.4 | 4084945 | 3.35E-02 | 5.10E-03 | 2.76E-03 |
| 19 | 258408.7 | 4084921 | 3.11E-02 | 4.73E-03 | 2.56E-03 |
| 20 | 258432.8 | 4085136 | 8.37E-03 | 1.28E-03 | 6.90E-04 |
| 21 | 258402.2 | 4085179 | 7.38E-03 | 1.12E-03 | 6.08E-04 |
| 22 | 258438.7 | 4085093 | 1.20E-02 | 1.83E-03 | 9.91E-04 |
| 23 | 258438 | 4085068 | 1.54E-02 | 2.35E-03 | 1.27E-03 |
| 24 | 258437.3 | 4085044 | 1.89E-02 | 2.87E-03 | 1.55E-03 |
| 25 | 258436.5 | 4085019 | 2.17E-02 | 3.30E-03 | 1.79E-03 |
| 26 | 258435.8 | 4084994 | 2.37E-02 | 3.61E-03 | 1.95E-03 |
| 27 | 258435.1 | 4084969 | 2.48E-02 | 3.78E-03 | 2.04E-03 |
| 28 | 258434.4 | 4084945 | 2.49E-02 | 3.80E-03 | 2.06E-03 |
| 29 | 258433.7 | 4084920 | 2.41E-02 | 3.67E-03 | 1.99E-03 |
| 30 | 258457.7 | 4085135 | 6.83E-03 | 1.04E-03 | 5.63E-04 |
| 31 | 258444.4 | 4085170 | 5.78E-03 | 8.80E-04 | 4.76E-04 |
| 32 | 258420.5 | 4085196 | 5.67E-03 | 8.64E-04 | 4.67E-04 |
| 33 | 258386.1 | 4085212 | 6.37E-03 | 9.70E-04 | 5.25E-04 |
| 34 | 258463.7 | 4085092 | 9.21E-03 | 1.40E-03 | 7.59E-04 |
| 35 | 258463 | 4085068 | 1.14E-02 | 1.74E-03 | 9.40E-04 |
| 36 | 258462.3 | 4085043 | 1.37E-02 | 2.09E-03 | 1.13E-03 |
| 37 | 258461.5 | 4085018 | 1.59E-02 | 2.43E-03 | 1.31E-03 |
| 38 | 258460.8 | 4084993 | 1.77E-02 | 2.69E-03 | 1.46E-03 |
| 39 | 258460.1 | 4084969 | 1.88E-02 | 2.87E-03 | 1.55E-03 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2922 | 256862.37 | 4086373.88 | 0.000010352 | 1.50E-04 | 1.10E-04 | 1.10E-04 | 8.15E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-06 | 9.47E-06 | 8.53E-07 | 1.23E-06 | 7.67E-06 | 7.67E-06 | 3.79E-06 |
| 2923 | 256839.8 | 4086365.64 | 0.000010318 | 1.50E-04 | 1.10E-04 | 1.10E-04 | 8.14E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-06 | 9.46E-06 | 8.52E-07 | 1.23E-05 | 7.66E-06 | 7.66E-06 | 3.79E-06 |
| 2924 | 256617.24 | 4086357.4 | 0.000010323 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 8.14E-05 | 1.57E-06 | 2.27E-05 | 1.72E-05 | 1.72E-05 | 9.45E-06 | 8.51E-07 | 1.23E-05 | 7.65E-06 | 7.65E-06 | 3.78E-06 |
| 2925 | 256794.68 | 4086349.15 | 0.000010515 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 8.23E-05 | 1.57E-06 | 2.27E-06 | 1.72E-05 | 1.72E-05 | 9.44E-06 | 8.50E-07 | 1.23E-06 | 7.64E-06 | 7.64E-06 | 3.78E-06 |
| 2926 | 256772.11 | 4086340.91 | 0.000010323 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 8.23E-06 | 1.57E-06 | 2.27E-06 | 1.72E-06 | 1.72E-05 | 9.44E-06 | 8.50E-07 | 1.23E-06 | 7.64E-06 | 7.64E-06 | 5.78E-06 |
| 2927 | 256749.55 | 4086332.67 | 0.000010319 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.13E-06 | 1.57E-06 | 2.27E-06 | 1.72E-06 | 1.72E-06 | 9.44E-06 | 8.51E-07 | 1.23E-06 | 7.84E-06 | 7.64E-06 | 3.76E-06 |
| 2928 | 256726.99 | 4086324.43 | 0.000010329 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.14E-06 | 1.57E-06 | 2.28E-06 | 1.72E-06 | 1.72E-06 | 9.45E-06 | 8.51E-07 | 1.23E-06 | 7.65E-06 | 7.65E-06 | 3.79E-06 |
| 2929 | 256704.42 | 4086316.18 | 0.000010346 | 1.50E-04 | 1.10E-04 | 1.10E-04 | 6.15E-06 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-06 | 9.47E-06 | 8.53E-07 | 1.23E-05 | 7.66E-06 | 7.66E-06 | 5.79E-06 |
| 2930 | 256681.86 | 4086307.94 | 0.000010366 | 1.50E-04 | 1.11E-04 | 1.11E-04 | 8.16E-05 | 1.57E-06 | 2.28E-05 | 1.73E-05 | 1.73E-06 | 9.49E-06 | 8.54E-07 | 1.24E-05 | 7.68E-06 | 7.68E-06 | 5.80E-06 |
| 2931 | 256659.3 | 4086299.7 | 0.000010389 | 1.50E-04 | 1.11E-04 | 1.11E-04 | 8.17E-05 | 1.58E-06 | 2.29E-05 | 1.73E-05 | 1.73E-05 | 9.51E-06 | 8.56E-07 | 1.24E-05 | 7.69E-06 | 7.69E-06 | 3.81E-06 |
| 2932 | 256636.73 | 4086291.46 | 0.000010411 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 6.19E-05 | 1.58E-06 | 2.29E-05 | 1.73E-05 | 1.73E-05 | 9.53E-06 | 8.58E-07 | 1.24E-05 | 7.71E-06 | 7.71E-06 | 3.82E-06 |
| 2933 | 256614.17 | 4086283.21 | 0.000010448 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 6.21E-05 | 1.59E-06 | 2.30E-05 | 1.74E-05 | 1.74E-05 | 9.56E-06 | 8.61E-07 | 1.25E-05 | 7.74E-06 | 7.74E-06 | 3.83E-06 |
| 2934 | 256591.61 | 4086274.97 | 0.000010487 | 1.52E-04 | 1.12E-04 | 1.12E-04 | 6.23E-05 | 1.59E-06 | 2.31E-05 | 1.75E-05 | 1.75E-05 | 9.60E-06 | 8.64E-07 | 1.25E-05 | 7.77E-06 | 7.77E-06 | 3.84E-06 |
| 2935 | 256569.04 | 4086266.73 | 0.000010508 | 1.52E-04 | 1.12E-04 | 1.12E-04 | 6.25E-06 | 1.59E-06 | 2.32E-05 | 1.75E-05 | 1.75E-05 | 9.62E-06 | 8.66E-07 | 1.25E-05 | 7.78E-06 | 7.78E-06 | 3.85E-06 |
| 2936 | 256536.43 | 4086236.67 | 0.00001069 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 8.35E-05 | 1.62E-06 | 2.36E-05 | 1.78E-05 | 1.78E-05 | 9.78E-06 | 8.81E-07 | 1.27E-06 | 7.92E-06 | 7.92E-06 | 5.92E-06 |
| 2937 | 256526.38 | 4086214.85 | 0.00010854 | 1.57E-04 | 1.16E-04 | 1.16E-04 | 8.45E-05 | 1.65E-06 | 2.39E-05 | 1.81E-05 | 1.81E-05 | 9.93E-06 | 8.95E-07 | 1.29E-05 | 8.04E-06 | 8.04E-06 | 3.98E-06 |
| 2938 | 256516.33 | 4086193.03 | 0.000011014 | 1.59E-04 | 1.17E-04 | 1.17E-04 | 6.55E-05 | 1.67E-06 | 2.43E-06 | 1.83E-05 | 1.83E-05 | 1.01E-05 | 9.08E-07 | 1.31E-05 | 8.16E-06 | 8.16E-06 | 4.04E-06 |
| 2939 | 256506.29 | 4086171.21 | 0.000011166 | 1.61E-04 | 1.19E-04 | 1.19E-04 | 6.64E-06 | 1.69E-06 | 2.46E-06 | 1.86E-05 | 1.86E-05 | 1.02E-05 | 9.20E-07 | 1.13E-05 | 8.27E-06 | 8.27E-06 | 4.09E-06 |
| 2940 | 256496.24 | 4086149.39 | 0.000011307 | 1.64E-04 | 1.21E-04 | 1.21E-04 | 6.72E-06 | 1.72E-06 | 2.49E-05 | 1.88E-05 | 1.88E-05 | 1.03E-05 | 9.32E-07 | 1.35E-06 | 8.37E-06 | 6.37E-06 | 4.14E-06 |
| 2941 | 256486.19 | 4086127.57 | 0.000011432 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.79E-05 | 1.74E-06 | 2.52E-05 | 1.90E-05 | 1.90E-05 | 1.05E-05 | 9.42E-07 | 1.36E-05 | 8.47E-06 | 8.47E-06 | 4.19E-06 |
| 2942 | 256476.14 | 4086105.75 | 0.000011538 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.86E-05 | 1.75E-06 | 2.54E-05 | 1.92E-05 | 1.92E-05 | 1.06E-05 | 9.51E-07 | 1.38E-06 | 8.54E-06 | 6.54E-06 | 4.23E-06 |
| 2943 | 256466.1 | 4086083.95 | 0.00001162 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.91E-05 | 1.76E-06 | 2.56E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.58E-07 | 1.39E-05 | 8.61E-06 | 8.61E-06 | 4.26E-06 |
| 2944 | 256456.05 | 4086062.11 | 0.000011676 | 1.69E-04 | 1.24E-04 | 1.24E-04 | 6.94E-05 | 1.77E-06 | 2.57E-05 | 1.94E-05 | 1.94E-05 | 1.07E-05 | 9.62E-07 | 1.39E-05 | 8.65E-06 | 8.65E-06 | 4.28E-06 |
| 2945 | 256446 | 4086040.29 | 0.000011696 | 1.69E-04 | 1.25E-04 | 1.25E-04 | 8.95E-05 | 1.78E-06 | 2.58E-05 | 1.95E-05 | 1.95E-05 | 1.07E-05 | 9.64E-07 | 1.39E-05 | 8.66E-06 | 6.66E-06 | 4.29E-06 |
| 2946 | 256435.95 | 4086018.47 | 0.000011664 | 1.69E-04 | 1.25E-04 | 1.25E-04 | 6.94E-05 | 1.77E-06 | 2.57E-05 | 1.94E-05 | 1.94E-05 | 1.07E-05 | 9.63E-07 | 1.39E-05 | 8.65E-06 | 8.65E-06 | 4.28E-06 |
| 2947 | 256425.91 | 4085996.65 | 0.000011633 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.91E-06 | 1.77E-06 | 2.56E-05 | 1.94E-06 | 1.94E-05 | 1.06E-05 | 9.59E-07 | 1.39E-05 | 8.61E-06 | 8.61E-06 | 4.26E-06 |
| 2948 | 256415.86 | 4085974.83 | 0.000011543 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.86E-06 | 1.75E-06 | 2.54E-06 | 1.92E-06 | 1.92E-05 | 1.06E-05 | 9.51E-07 | 1.38E-05 | 8.55E-06 | 8.55E-06 | 4.23E-06 |
| 2949 | 256405.81 | 4085953.01 | 0.000011411 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.78E-05 | 1.73E-06 | 2.51E-05 | 1.90E-05 | 1.90E-05 | 1.04E-05 | 9.41E-07 | 1.36E-05 | 8.45E-06 | 8.45E-06 | 4.18E-06 |
| 2950 | 256395.76 | 4085931.19 | 0.000011237 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.66E-06 | 1.71E-06 | 2.48E-05 | 1.87E-06 | 1.87E-05 | 1.03E-06 | 9.26E-07 | 1.34E-05 | 8.32E-06 | 8.32E-06 | 4.12E-06 |
| 2951 | 256385.71 | 4085909.37 | 0.000011024 | 1.59E-04 | 1.18E-04 | 1.18E-04 | 6.55E-05 | 1.67E-06 | 2.43E-06 | 1.83E-06 | 1.83E-06 | 1.01E-06 | 9.09E-07 | 1.31E-06 | 8.16E-06 | 8.16E-06 | 4.04E-06 |
| 2952 | 258275.67 | 4085887.55 | 0.000010776 | 1.56E-04 | 1.15E-04 | 1.15E-04 | 6.40E-05 | 1.64E-06 | 2.37E-06 | 1.79E-05 | 1.79E-05 | 9.86E-06 | 8.88E-07 | 1.28E-05 | 7.98E-06 | 7.98E-06 | 3.95E-06 |
| 2953 | 256365.62 | 4085865.73 | 0.000010493 | 1.52E-04 | 1.12E-04 | 1.12E-04 | 6.24E-05 | 1.59E-06 | 2.31E-06 | 1.75E-05 | 1.75E-06 | 9.60E-06 | 6.65E-07 | 1.25E-05 | 7.77E-06 | 7.77E-06 | 3.86E-06 |
| 2954 | 256355.57 | 4085843.91 | 0.000010149 | 1.47E-04 | 1.08E-04 | 1.08E-04 | 6.03E-05 | 1.54E-06 | 2.24E-05 | 1.69E-05 | 1.69E-06 | 9.29E-06 | 8.37E-07 | 1.21E-05 | 7.52E-06 | 7.52E-06 | 3.72E-06 |
| 2955 | 256345.52 | 4085822.09 | 9.7783E-06 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.81E-05 | 1.48E-06 | 2.25E-05 | 1.83E-05 | 1.83E-05 | 8.95E-06 | 6.06E-07 | 1.17E-05 | 7.24E-06 | 7.24E-06 | 5.58E-06 |
| 2956 | 256335.48 | 4085800.27 | 9.3746E-06 | 1.36E-04 | 9.99E-05 | 9.99E-05 | 5.57E-05 | 1.42E-06 | 2.07E-05 | 1.56E-05 | 1.56E-05 | 8.58E-06 | 7.73E-07 | 1.17E-05 | 6.94E-06 | 6.94E-06 | 3.44E-06 |
| 2957 | 256325.43 | 4085778.45 | 8.9525E-06 | 1.29E-04 | 9.54E-06 | 9.54E-05 | 5.32E-05 | 1.36E-06 | 1.97E-05 | 1.49E-05 | 1.49E-06 | 8.19E-06 | 7.38E-07 | 1.07E-05 | 6.83E-06 | 6.63E-06 | 3.28E-06 |
| 2958 | 256315.38 | 4085756.63 | 0.000008514 | 1.23E-04 | 9.08E-05 | 9.08E-05 | 5.06E-05 | 1.29E-06 | 1.88E-05 | 1.42E-05 | 1.42E-05 | 7.79E-06 | 7.02E-07 | 1.02E-05 | 6.31E-06 | 6.31E-06 | 3.12E-06 |
| 2959 | 256305.33 | 4085734.81 | 8.0714E-06 | 1.17E-04 | 8.60E-05 | 8.60E-06 | 4.80E-06 | 1.22E-06 | 1.78E-05 | 1.34E-05 | 1.34E-06 | 7.39E-06 | 6.65E-07 | 9.62E-06 | 5.98E-06 | 5.98E-06 | 2.96E-06 |
| 2960 | 256295.29 | 4085712.99 | 0.000007637 | 1.10E-04 | 8.14E-06 | 8.14E-05 | 4.54E-05 | 1.16E-06 | 1.68E-05 | 1.27E-06 | 1.27E-06 | 6.99E-06 | 6.30E-07 | 9.11E-06 | 5.66E-06 | 5.66E-06 | 2.80E-06 |
| 2961 | 256285.24 | 4085691.17 | 0.000007219 | 1.04E-04 | 7.70E-05 | 7.70E-05 | 4.29E-05 | 1.10E-06 | 1.59E-06 | 1.20E-06 | 1.20E-06 | 6.61E-06 | 5.95E-07 | 8.61E-06 | 5.35E-06 | 5.35E-06 | 2.65E-06 |
| 2962 | 258275.19 | 4085669.35 | 6.8232E-06 | 9.85E-05 | 7.26E-05 | 7.26E-06 | 4.05E-05 | 1.03E-06 | 1.50E-05 | 1.13E-05 | 1.13E-06 | 6.23E-06 | 5.62E-07 | 8.12E-06 | 5.05E-06 | 5.05E-06 | 2.50E-06 |
| 2963 | 258265.14 | 4085647.53 | 6.4403E-06 | 9.31E-05 | 6.87E-05 | 6.87E-06 | 3.83E-05 | 9.77E-07 | 1.42E-06 | 1.07E-05 | 1.07E-06 | 5.89E-06 | 5.31E-07 | 7.68E-06 | 4.77E-06 | 4.77E-06 | 2.36E-06 |
| 2964 | 256255.09 | 4085625.71 | 8.1022E-06 | 8.83E-05 | 6.51E-05 | 6.51E-06 | 3.63E-05 | 9.25E-07 | 1.34E-05 | 1.02E-05 | 1.02E-05 | 5.58E-06 | 5.03E-07 | 7.28E-06 | 4.52E-06 | 4.52E-06 | 2.24E-06 |
| 2965 | 256245.05 | 4085603.89 | 0.000005803 | 8.39E-06 | 6.19E-05 | 6.19E-06 | 3.45E-05 | 8.81E-07 | 1.28E-05 | 9.66E-06 | 9.66E-06 | 5.31E-06 | 4.78E-07 | 6.92E-06 | 4.30E-06 | 4.30E-06 | 2.23E-06 |
| 2966 | 256235 | 4085582.07 | 5.5428E-06 | 8.02E-05 | 5.91E-05 | 5.91E-05 | 3.29E-05 | 8.41E-07 | 1.22E-05 | 9.23E-06 | 9.23E-06 | 5.07E-06 | 4.57E-07 | 6.61E-06 | 4.10E-06 | 4.10E-06 | 2.03E-06 |
| 2967 | 258224.95 | 4085560.26 | 5.3235E-06 | 7.70E-05 | 5.68E-05 | 5.68E-05 | 5.16E-05 | 8.08E-07 | 1.17E-05 | 8.86E-06 | 8.86E-06 | 4.87E-06 | 4.39E-07 | 6.35E-06 | 3.94E-06 | 5.94E-06 | 1.95E-06 |
| 2968 | 256214.9 | 4085538.44 | 5.1291E-06 | 7.43E-05 | 5.48E-05 | 5.48E-06 | 3.05E-05 | 7.80E-07 | 1.13E-05 | 8.55E-06 | 8.55E-06 | 4.70E-06 | 4.24E-07 | 6.13E-06 | 3.81E-06 | 3.81E-06 | 1.88E-06 |
| 2969 | 256204.86 | 4085516.62 | 4.9854E-06 | 7.21E-06 | 5.31E-05 | 5.31E-05 | 2.96E-05 | 7.57E-07 | 1.10E-05 | 8.30E-05 | 8.30E-06 | 4.56E-06 | 4.11E-07 | 5.94E-06 | 5.69E-06 | 3.69E-06 | 1.83E-06 |
| 2970 | 256194.81 | 4085494.6 | 4.8564E-06 | 7.02E-06 | 5.16E-05 | 5.18E-06 | 2.89E-06 | 7.37E-07 | 1.07E-05 | 8.08E-06 | 8.08E-06 | 4.44E-06 | 4.00E-07 | 5.79E-06 | 3.60E-06 | 5.60E-06 | 1.78E-06 |
| 2971 | 256184.76 | 4085472.98 | 4.7478E-06 | 6.87E-06 | 5.06E-06 | 5.06E-06 | 2.82E-05 | 7.21E-07 | 1.05E-05 | 7.90E-06 | 7.90E-06 | 4.34E-06 | 3.91E-07 | 5.66E-06 | 3.52E-06 | 5.52E-06 | 1.74E-06 |
| 2972 | 256174.71 | 4085451.16 | 4.6494E-06 | 8.72E-05 | 4.96E-05 | 4.96E-05 | 2.76E-05 | 7.06E-07 | 1.02E-05 | 7.74E-06 | 7.74E-06 | 4.25E-06 | 3.83E-07 | 5.54E-06 | 3.44E-06 | 5.44E-06 | 1.70E-06 |
| 2973 | 256164.67 | 4085429.34 | 4.5613E-06 | 6.60E-06 | 4.85E-05 | 4.85E-06 | 2.71E-05 | 6.92E-07 | 1.01E-05 | 7.59E-06 | 7.59E-06 | 4.17E-06 | 3.76E-07 | 5.44E-06 | 3.38E-06 | 3.38E-06 | 1.67E-06 |
| 2974 | 256154.62 | 4085407.52 | 4.4752E-06 | 6.47E-06 | 4.77E-05 | 4.77E-05 | 2.66E-05 | 6.79E-07 | 9.86E-06 | 7.45E-06 | 7.45E-06 | 4.10E-06 | 3.69E-07 | 5.34E-06 | 3.31E-06 | 3.31E-06 | 1.64E-06 |
| 2975 | 256144.57 | 4085385.7 | 4.3892E-06 | 6.35E-05 | 4.68E-05 | 4.68E-05 | 2.61E-05 | 6.66E-07 | 9.67E-06 | 7.31E-06 | 7.31E-06 | 4.02E-06 | 3.62E-07 | 5.23E-06 | 3.25E-06 | 3.25E-06 | 1.61E-06 |
| 2976 | 256134.52 | 4085363.88 | 4.3031E-06 | 6.22E-05 | 4.59E-05 | 4.59E-06 | 2.56E-05 | 6.53E-07 | 9.48E-06 | 7.16E-06 | 7.16E-06 | 3.94E-06 | 3.55E-07 | 5.13E-06 | 5.19E-06 | 3.19E-06 | 1.58E-06 |
| 2977 | 256124.47 | 4085342.06 | 0.000004217 | 8.10E-06 | 4.50E-05 | 4.50E-06 | 2.51E-05 | 6.40E-07 | 9.29E-06 | 7.02E-06 | 7.02E-06 | 3.86E-06 | 3.48E-07 | 5.03E-06 | 3.12E-06 | 3.12E-06 | 1.55E-06 |
| 2978 | 256114.43 | 4085320.24 | 0.000004231 | 5.97E-05 | 4.40E-05 | 4.40E-05 | 2.46E-05 | 6.27E-07 | 9.10E-06 | 6.88E-06 | 6.88E-06 | 3.78E-05 | 3.41E-07 | 4.93E-06 | 3.06E-06 | 3.06E-06 | 1.51E-06 |
| 2979 | 256104.38 | 4085298.42 | 4.0511E-06 | 5.86E-06 | 4.32E-05 | 4.32E-05 | 2.41E-05 | 6.15E-07 | 8.93E-06 | 6.74E-06 | 6.74E-06 | 3.71E-06 | 3.34E-07 | 4.83E-06 | 3.00E-06 | 3.00E-06 | 1.48E-06 |
| 2980 | 256094.33 | 4085276.6 | 3.9773E-06 | 5.75E-05 | 4.24E-05 | 4.24E-06 | 2.36E-05 | 6.04E-07 | 8.76E-06 | 6.62E-06 | 6.62E-06 | 3.64E-06 | 3.28E-07 | 4.74E-06 | 2.95E-06 | 2.95E-06 | 1.46E-06 |
| 2981 | 256084.26 | 4085254.78 | 3.9056E-06 | 5.65E-05 | 4.16E-05 | 4.16E-06 | 2.32E-05 | 5.93E-07 | 8.61E-06 | 6.50E-06 | 6.50E-06 | 3.57E-06 | 3.22E-07 | 4.66E-06 | 2.89E-06 | 2.89E-06 | 1.43E-06 |
| 2982 | 256074.24 | 4085232.96 | 3.8467E-06 | 5.56E-05 | 4.10E-05 | 4.10E-06 | 2.29E-05 | 5.84E-07 | 8.47E-06 | 6.40E-06 | 6.40E-06 | 3.52E-06 | 3.17E-07 | 4.59E-06 | 2.85E-06 | 2.85E-06 | 1.41E-06 |
| 2983 | 257629.53 | 4086654.13 | 0.000007137 | 1.03E-04 | 7.61E-05 | 7.61E-05 | 4.24E-05 | 1.08E-06 | 1.57E-06 | 1.19E-05 | 1.19E-06 | 6.53E-06 | 5.88E-07 | 8.51E-06 | 5.29E-06 | 5.29E-06 | 2.62E-06 |
| 2984 | 257653.81 | 4086653.06 | 7.0714E-06 | 1.02E-04 | 7.54E-05 | 7.54E-06 | 4.20E-05 | 1.07E-06 | 1.56E-06 | 1.18E-06 | 1.18E-06 | 6.47E-06 | 5.83E-07 | 8.43E-06 | 5.24E-06 | 5.24E-06 | 2.59E-06 |
| 2985 | 257678.09 | 4086651.98 | 0.00000701 | 1.01E-04 | 7.47E-05 | 7.47E-06 | 4.17E-05 | 1.06E-06 | 1.54E-05 | 1.17E-05 | 1.17E-05 | 6.41E-06 | 5.78E-07 | 8.36E-06 | 5.19E-06 | 5.19E-06 | 2.57E-06 |
| 2986 | 257702.38 | 4086650.9 | 6.9485E-06 | 1.01E-04 | 7.41E-05 | 7.41E-05 | 4.13E-05 | 1.05E-06 | 1.53E-05 | 1.16E-05 | 1.16E-06 | 6.36E-06 | 5.73E-07 | 6.28E-06 | 5.15E-06 | 5.15E-06 | 2.55E-06 |
| 2987 | 257726.66 | 4086649.83 | 6.8911E-06 | 9.97E-06 | 7.35E-05 | 7.35E-06 | 4.10E-05 | 1.05E-06 | 1.52E-06 | 1.15E-05 | 1.15E-05 | 6.31E-06 | 5.68E-07 | 6.22E-06 | 5.10E-06 | 5.10E-06 | 2.53E-06 |
| 2988 | 257750.94 | 4086648.75 | 6.8337E-06 | 9.88E-05 | 7.29E-05 | 7.29E-05 | 4.06E-05 | 1.04E-06 | 1.51E-06 | 1.14E-05 | 1.14E-06 | 6.25E-06 | 5.83E-07 | 8.15E-06 | 5.06E-06 | 5.06E-06 | 2.51E-06 |
| 2989 | 257775.22 | 4086647.68 | 6.7743E-06 | 9.80E-05 | 7.22E-05 | 7.22E-06 | 4.03E-05 | 1.03E-06 | 1.49E-05 | 1.15E-06 | 1.13E-05 | 6.20E-06 | 5.58E-07 | 8.08E-06 | 5.02E-06 | 5.02E-06 | 2.48E-06 |
| 2990 | 257799.5 | 4086646.6 | 6.7128E-06 | 9.71E-05 | 7.16E-05 | 7.16E-06 | 3.99E-05 | 1.02E-06 | 1.48E-06 | 1.12E-05 | 1.12E-05 | 8.14E-06 | 5.53E-07 | 8.00E-06 | 4.97E-06 | 4.97E-06 | 2.46E-06 |
| 2991 | 257823.79 | 4086645.53 | 6.6473E-06 | 9.61E-05 | 7.09E-05 | 7.09E-05 | 3.95E-05 | 1.01E-06 | 1.48E-05 | 1.11E-06 | 1.11E-05 | 6.08E-06 | 5.48E-07 | 7.92E-06 | 4.92E-06 | 4.92E-06 | 2.44E-06 |
| 2992 | 257848.07 | 4086644.45 | 6.5755E-06 | 9.51E-05 | 7.01E-05 | 7.01E-06 | 5.91E-05 | 9.98E-07 | 1.45E-06 | 1.09E-06 | 1.09E-05 | 6.02E-06 | 5.42E-07 | 7.84E-06 | 4.87E-06 | 4.87E-06 | 2.41E-06 |
| 2993 | 257672.35 | 4086643.38 | 8.4977E-06 | 9.40E-05 | 6.93E-06 | 8.93E-05 | 3.86E-05 | 9.86E-07 | 1.43E-05 | 1.08E-05 | 1.08E-05 | 5.95E-06 | 5.36E-07 | 7.75E-06 | 4.61E-06 | 4.81E-06 | 2.38E-06 |
| 2994 | 257896.63 | 4086642.3 | 6.4116E-06 | 9.27E-05 | 6.84E-05 | 6.84E-05 | 3.81E-05 | 9.73E-07 | 1.41E-05 | 1.07E-05 | 1.07E-05 | 5.87E-06 | 5.29E-07 | 7.64E-06 | 4.75E-06 | 4.75E-06 | 2.35E-06 |
| 2995 | 257920.91 | 4086641.23 | 6.3194E-06 | 9.14E-06 | 6.74E-06 | 6.74E-06 | 3.76E-05 | 9.59E-07 | 1.39E-06 | 1.05E-06 | 1.05E-06 | 5.78E-06 | 5.21E-07 | 7.53E-06 | 4.68E-06 | 4.68E-06 | 2.32E-06 |
| 2996 | 257945.19 | 4086640.15 | 0.000006219 | 8.99E-05 | 8.63E-05 | 6.63E-05 | 3.70E-05 | 9.44E-07 | 1.37E-05 | 1.04E-05 | 1.04E-06 | 5.69E-06 | 5.23E-07 | 7.41E-06 | 4.61E-06 | 4.61E-06 | 2.28E-06 |
| 2997 | 257969.48 | 4086639.07 | 6.1125E-06 | 8.84E-05 | 6.52E-05 | 8.52E-05 | 3.63E-05 | 9.28E-07 | 1.35E-05 | 1.02E-05 | 1.02E-05 | 5.59E-06 | 5.04E-07 | 7.29E-06 | 4.53E-06 | 4.53E-06 | 2.24E-06 |
| 2998 | 257993.76 | 4086638 | 5.9997E-06 | 8.68E-05 | 6.40E-05 | 6.40E-06 | 3.57E-05 | 9.11E-07 | 1.32E-05 | 9.99E-06 | 9.99E-06 | 5.49E-06 | 4.95E-07 | 7.15E-06 | 4.44E-06 | 4.44E-06 | 2.20E-06 |
| 2999 | 258018.04 | 4086636.92 | 5.8809E-06 | 8.51E-05 | 6.27E-05 | 6.27E-06 | 3.50E-05 | 6.93E-07 | 1.30E-05 | 9.79E-06 | 9.79E-06 | 5.38E-06 | 4.83E-07 | 7.01E-06 | 4.36E-06 | 4.36E-06 | 2.16E-06 |
| 3000 | 258042.32 | 4086635.85 | 0.00000576 | 8.33E-05 | 6.14E-05 | 6.14E-05 | 3.42E-05 | 6.74E-07 | 1.27E-06 | 9.59E-06 | 9.59E-06 | 5.27E-06 | 4.75E-07 | 6.87E-06 | 4.27E-06 | 4.27E-06 | 2.11E-06 |
| 3001 | 258066.6 | 4086634.77 | 5.8391E-06 | 8.16E-05 | 6.01E-05 | 6.01E-05 | 3.35E-05 | 6.56E-07 | 1.24E-06 | 9.39E-06 | 9.39E-06 | 5.16E-06 | 4.65E-07 | 6.72E-06 | 4.18E-06 | 4.16E-06 | 2.07E-06 |
| 3002 | 258090.89 | 4086613.7 | 5.5203E-06 | 7.98E-05 | 5.88E-05 | 5.88E-06 | 3.28E-05 | 8.38E-07 | 1.22E-05 | 9.19E-06 | 9.19E-06 | 5.05E-06 | 4.55E-07 | 6.58E-06 | 4.09E-06 | 4.09E-06 | 2.02E-06 |
| 3003 | 256115.17 | 4086632.62 | 5.4035E-06 | 7.82E-05 | 5.76E-05 | 5.76E-06 | 3.21E-06 | 8.20E-07 | 1.19E-05 | 6.99E-06 | 6.99E-06 | 4.94E-06 | 4.45E-07 | 6.44E-06 | 4.00E-06 | 4.00E-06 | 1.98E-06 |
| 3004 | 258159.45 | 4086631.55 | 5.2928E-06 | 7.66E-06 | 5.64E-05 | 5.64E-05 | 3.15E-05 | 8.03E-07 | 1.17E-06 | 8.81E-06 | 8.81E-06 | 4.84E-06 | 4.36E-07 | 8.31E-06 | 3.92E-06 | 3.92E-06 | 1.94E-06 |
| 3005 | 258163.73 | 4086630.47 | 5.1904E-06 | 7.51E-06 | 5.53E-05 | 5.53E-05 | 3.08E-05 | 7.88E-07 | 1.14E-05 | 6.84E-06 | 8.64E-06 | 4.75E-06 | 4.28E-07 | 6.19E-06 | 3.84E-06 | 3.84E-06 | 1.90E-06 |
| 3006 | 256188.01 | 4086629.4 | 5.0961E-06 | 7.37E-06 | 5.43E-05 | 5.43E-06 | 3.03E-05 | 7.73E-07 | 1.12E-06 | 6.48E-06 | 8.48E-06 | 4.66E-06 | 4.20E-07 | 6.08E-06 | 3.77E-06 | 3.77E-06 | 1.87E-06 |
| 3007 | 258212.29 | 4086628.32 | 0.000005008 | 7.24E-05 | 5.34E-05 | 5.34E-06 | 2.98E-05 | 7.60E-07 | 1.10E-06 | 8.34E-06 | 8.34E-06 | 4.58E-06 | 4.23E-07 | 5.97E-06 | 3.71E-06 | 3.71E-06 | 1.84E-06 |
| 3008 | 258236.58 | 4086627.24 | 0.000004925 | 7.12E-05 | 5.25E-05 | 5.25E-06 | 2.93E-05 | 7.48E-07 | 1.09E-05 | 8.20E-06 | 8.20E-06 | 4.51E-06 | 4.06E-07 | 5.87E-06 | 5.65E-06 | 3.65E-06 | 1.81E-06 |
| 3009 | 258260.86 | 4086626.17 | 4.8482E-06 | 7.01E-06 | 5.17E-06 | 5.17E-05 | 2.88E-05 | 7.36E-07 | 1.07E-06 | 8.07E-06 | 8.07E-06 | 4.44E-06 | 4.00E-07 | 5.78E-06 | 3.59E-06 | 3.59E-06 | 1.78E-06 |
| 3010 | 256285.14 | 4086625.09 | 4.7744E-06 | 8.91E-05 | 5.09E-05 | 5.09E-06 | 2.84E-05 | 7.25E-07 | 1.05E-05 | 7.95E-06 | 7.95E-06 | 4.37E-06 | 3.94E-07 | 5.69E-06 | 3.54E-06 | 3.54E-06 | 1.75E-06 |
| 3011 | 258309.42 | 4086624.02 | 4.7027E-06 | 6.80E-05 | 5.01E-05 | 5.01E-05 | 2.79E-05 | 7.14E-07 | 1.04E-05 | 7.83E-06 | 7.83E-06 | 4.30E-06 | 3.88E-07 | 5.61E-06 | 3.48E-06 | 3.48E-06 | 1.72E-06 |
| 3012 | 258333.7 | 4086622.94 | 0.000004631 | 6.70E-05 | 4.94E-05 | 4.94E-06 | 2.75E-05 | 7.03E-07 | 1.02E-06 | 7.71E-06 | 7.71E-06 | 4.24E-06 | 3.82E-07 | 5.52E-06 | 3.43E-06 | 3.43E-06 | 1.70E-06 |
| 3013 | 258257.99 | 4086621.87 | 4.5613E-06 | 6.60E-05 | 4.86E-06 | 4.86E-06 | 2.71E-05 | 6.92E-07 | 1.01E-05 | 7.59E-06 | 7.59E-06 | 4.17E-06 | 3.76E-07 | 5.44E-06 | 5.38E-06 | 5.38E-05 | 1.67E-06 |
| 3014 | 258362.27 | 4086620.79 | 4.4937E-08 | 6.50E-06 | 4.79E-05 | 4.79E-06 | 2.67E-05 | 6.82E-07 | 9.90E-06 | 7.48E-06 | 7.48E-06 | 4.11E-06 | 3.70E-07 | 5.36E-06 | 3.33E-06 | 3.33E-06 | 1.65E-06 |
| 3015 | 258406.55 | 4086619.72 | 0.000004424 | 6.40E-06 | 4.72E-06 | 4.72E-05 | 2.63E-05 | 6.71E-07 | 9.75E-06 | 7.36E-06 | 7.38E-06 | 4.05E-06 | 3.65E-07 | 5.27E-06 | 3.28E-06 | 3.28E-06 | 1.62E-06 |
| 3016 | 258430.83 | 4086618.64 | 4.3543E-06 | 6.30E-06 | 4.64E-05 | 4.64E-06 | 2.59E-05 | 6.61E-07 | 9.59E-06 | 7.25E-06 | 7.25E-06 | 5.98E-06 | 3.59E-07 | 5.19E-06 | 3.22E-06 | 3.22E-06 | 1.60E-06 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2805 | 256883.17 | 4086184.91 | 0.000012344 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 2806 | 256860.83 | 4086176.75 | 0.000012338 | 1.78E-04 | 1.32E-04 | 1.32E-04 | 7.33E-06 | 1.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-06 | 1.13E-06 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 2807 | 256838.48 | 4086168.58 | 0.000012338 | 1.78E-04 | 1.32E-04 | 1.32E-04 | 7.33E-05 | 1.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 2808 | 256816.13 | 4086160.42 | 0.000012342 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.87E-06 | 2.72E-05 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 2809 | 256793.78 | 4086252.26 | 0.000012348 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-06 | 1.87E-06 | 2.72E-06 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-06 | 4.53E-06 |
| 2810 | 256771.43 | 4086144.09 | 0.000012356 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.88E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.15E-06 | 9.15E-06 | 4.53E-06 |
| 2811 | 256749.08 | 4086135.93 | 0.000012364 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.35E-05 | 1.88E-06 | 2.72E-05 | 2.06E-05 | 2.08E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.16E-06 | 9.16E-06 | 4.53E-06 |
| 2812 | 256726.73 | 4086127.76 | 0.00001237 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.35E-06 | 1.88E-06 | 2.73E-06 | 2.06E-05 | 2.06E-05 | 1.13E-06 | 1.02E-06 | 1.47E-05 | 9.16E-06 | 9.16E-06 | 4.53E-06 |
| 2613 | 256704.38 | 4085119.6 | 0.000012374 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.35E-05 | 1.88E-06 | 2.73E-05 | 2.06E-05 | 2.06E-05 | 1.13E-06 | 1.02E-06 | 1.48E-05 | 9.16E-06 | 9.16E-06 | 4.54E-06 |
| 2614 | 256672.03 | 4086089.82 | 0.000012577 | 1.82E-04 | 1.34E-04 | 1.34E-04 | 7.48E-05 | 1.91E-06 | 2.77E-05 | 2.09E-05 | 2.09E-05 | 1.15E-05 | 1.04E-06 | 1.50E-05 | 9.31E-06 | 9.31E-06 | 4.61E-06 |
| 2815 | 256662.13 | 4086068.21 | 0.000012784 | 1.85E-04 | 1.36E-04 | 1.36E-04 | 7.60E-05 | 1.94E-06 | 2.82E-05 | 2.13E-05 | 2.13E-05 | 1.17E-05 | 1.05E-06 | 1.52E-05 | 9.47E-06 | 9.47E-06 | 4.69E-06 |
| 2816 | 256652.18 | 4086046.6 | 0.000012995 | 1.88E-04 | 1.39E-04 | 1.39E-04 | 7.72E-06 | 1.97E-06 | 2.86E-05 | 2.16E-05 | 2.16E-05 | 1.19E-05 | 1.07E-06 | 1.55E-06 | 9.62E-06 | 9.62E-06 | 4.76E-06 |
| 2617 | 256642.25 | 4086024.99 | 0.000013163 | 1.90E-04 | 1.40E-04 | 1.40E-04 | 7.82E-05 | 2.00E-06 | 2.90E-05 | 2.19E-05 | 2.19E-05 | 1.20E-05 | 1.09E-06 | 1.57E-05 | 9.75E-06 | 9.75E-06 | 4.83E-06 |
| 2818 | 256632.28 | 4086003.38 | 0.000013309 | 1.92E-04 | 1.42E-04 | 1.42E-04 | 7.91E-05 | 2.02E-06 | 2.93E-05 | 2.22E-05 | 2.22E-05 | 1.22E-05 | 1.10E-06 | 1.59E-05 | 9.86E-06 | 9.86E-06 | 4.88E-06 |
| 2619 | 256622.32 | 4085981.76 | 0.000013428 | 1.94E-04 | 1.43E-04 | 1.43E-04 | 7.98E-06 | 2.04E-06 | 2.96E-05 | 2.23E-05 | 2.23E-05 | 1.23E-05 | 1.11E-06 | 1.60E-05 | 9.94E-06 | 9.94E-06 | 4.92E-06 |
| 2820 | 256612.37 | 4085960.15 | 0.000013508 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.03E-06 | 2.05E-06 | 2.98E-05 | 2.25E-06 | 2.25E-06 | 1.24E-06 | 1.11E-06 | 1.61E-05 | 1.00E-05 | 1.00E-06 | 4.95E-06 |
| 2821 | 256602.42 | 4085938.54 | 0.000013549 | 1.96E-04 | 1.44E-04 | 1.44E-04 | 8.05E-05 | 2.06E-06 | 2.99E-05 | 2.26E-05 | 2.26E-05 | 1.24E-05 | 1.12E-06 | 1.62E-06 | 1.00E-05 | 1.00E-05 | 4.97E-06 |
| 2822 | 256592.47 | 4085916.93 | 0.00001354 | 1.96E-04 | 1.44E-04 | 1.44E-04 | 8.05E-05 | 2.05E-06 | 2.98E-05 | 2.25E-05 | 2.25E-05 | 1.24E-05 | 1.12E-06 | 1.61E-05 | 1.00E-05 | 1.00E-05 | 4.96E-06 |
| 2823 | 256582.52 | 4085895.32 | 0.000013481 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.01E-06 | 2.05E-06 | 2.97E-05 | 2.24E-05 | 2.24E-05 | 1.25E-06 | 1.11E-06 | 1.61E-05 | 9.98E-06 | 9.98E-06 | 4.94E-06 |
| 2824 | 256572.56 | 4085873.7 | 0.000013366 | 1.93E-04 | 1.42E-04 | 1.42E-04 | 7.94E-05 | 2.03E-06 | 2.95E-05 | 2.22E-05 | 2.22E-05 | 1.22E-05 | 1.10E-06 | 1.59E-06 | 9.90E-06 | 9.90E-06 | 4.90E-06 |
| 2825 | 256562.61 | 4085852.09 | 0.000013198 | 1.91E-04 | 1.41E-04 | 1.41E-04 | 7.84E-05 | 2.00E-06 | 2.91E-05 | 2.20E-05 | 2.20E-05 | 1.21E-05 | 1.09E-06 | 1.57E-05 | 9.77E-06 | 9.77E-06 | 4.84E-06 |
| 2826 | 256552.66 | 4085830.48 | 0.000012973 | 1.88E-04 | 1.38E-04 | 1.38E-04 | 7.71E-06 | 1.97E-06 | 2.86E-05 | 2.16E-05 | 2.16E-05 | 1.19E-06 | 1.07E-06 | 1.55E-06 | 9.61E-06 | 9.61E-06 | 4.76E-06 |
| 2827 | 256542.71 | 4085808.67 | 0.000012694 | 1.84E-04 | 1.35E-04 | 1.33E-04 | 7.54E-06 | 1.93E-06 | 2.80E-05 | 2.11E-06 | 2.11E-06 | 1.16E-06 | 1.05E-06 | 1.51E-05 | 9.40E-06 | 9.40E-06 | 4.65E-06 |
| 2828 | 256532.76 | 4085787.26 | 0.00001236 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.35E-05 | 1.88E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-06 | 1.02E-06 | 1.47E-06 | 9.15E-06 | 9.15E-06 | 4.53E-06 |
| 2829 | 256522.8 | 4085765.64 | 0.000011975 | 1.73E-04 | 1.28E-04 | 1.28E-04 | 7.12E-05 | 1.82E-06 | 2.64E-05 | 1.99E-05 | 1.99E-05 | 1.10E-05 | 9.67E-07 | 1.43E-05 | 8.87E-06 | 8.87E-06 | 4.39E-06 |
| 2830 | 256512.85 | 4085744.03 | 0.000011543 | 1.87E-04 | 1.25E-04 | 1.25E-04 | 6.66E-06 | 1.75E-06 | 2.54E-06 | 1.92E-06 | 1.92E-05 | 1.06E-05 | 9.51E-07 | 1.38E-06 | 8.55E-06 | 8.55E-06 | 4.23E-06 |
| 2831 | 256502.9 | 4085722.42 | 0.000011069 | 1.60E-04 | 1.18E-04 | 1.18E-04 | 6.58E-05 | 1.68E-06 | 2.44E-05 | 1.84E-05 | 1.84E-05 | 1.01E-05 | 9.12E-07 | 1.32E-05 | 8.20E-06 | 8.20E-06 | 4.06E-06 |
| 2832 | 256492.95 | 4085700.81 | 0.000010582 | 1.53E-04 | 1.13E-04 | 1.13E-04 | 6.29E-06 | 1.61E-06 | 2.33E-05 | 1.76E-05 | 1.76E-05 | 9.68E-06 | 8.72E-07 | 1.28E-05 | 7.84E-06 | 7.84E-06 | 3.88E-06 |
| 2833 | 256483 | 4085679.2 | 0.000010049 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.97E-06 | 1.53E-06 | 2.21E-05 | 1.67E-05 | 1.67E-05 | 9.20E-06 | 8.28E-07 | 1.20E-06 | 7.44E-06 | 7.44E-06 | 3.68E-06 |
| 2834 | 256473.04 | 4085657.58 | 9.5037E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.85E-05 | 1.44E-06 | 2.09E-06 | 1.58E-06 | 1.58E-06 | 8.70E-06 | 7.83E-07 | 1.13E-05 | 7.04E-06 | 7.04E-06 | 3.48E-06 |
| 2835 | 256463.09 | 4085635.97 | 6.9607E-06 | 1.30E-04 | 9.55E-05 | 9.55E-06 | 5.33E-05 | 1.36E-06 | 1.97E-05 | 1.49E-05 | 1.49E-05 | 8.20E-06 | 7.39E-07 | 1.07E-05 | 6.64E-06 | 6.64E-06 | 3.28E-06 |
| 2836 | 256453.14 | 4085614.36 | 0.000008432 | 1.22E-04 | 8.99E-06 | 8.99E-06 | 5.03E-06 | 1.28E-06 | 1.86E-06 | 1.40E-05 | 1.40E-05 | 7.72E-06 | 6.95E-07 | 1.01E-06 | 6.24E-06 | 6.24E-06 | 3.09E-06 |
| 2837 | 256443.19 | 4085592.75 | 0.000007932 | 1.15E-04 | 6.46E-06 | 8.46E-06 | 4.71E-06 | 1.20E-06 | 1.75E-05 | 1.32E-05 | 1.32E-06 | 7.26E-06 | 6.54E-07 | 9.46E-06 | 5.87E-06 | 5.87E-06 | 2.91E-06 |
| 2838 | 256433.24 | 4085571.14 | 0.000007471 | 1.08E-04 | 7.96E-05 | 7.96E-06 | 4.44E-06 | 1.13E-06 | 1.65E-05 | 1.24E-05 | 1.24E-05 | 6.84E-06 | 6.16E-07 | 6.91E-06 | 5.53E-06 | 5.53E-06 | 2.74E-06 |
| 2839 | 256423.28 | 4085549.52 | 0.000007055 | 1.02E-04 | 7.52E-06 | 7.52E-06 | 4.19E-05 | 1.07E-06 | 1.55E-06 | 1.17E-05 | 1.17E-05 | 6.46E-06 | 5.82E-07 | 8.43E-06 | 5.22E-06 | 5.22E-06 | 2.59E-06 |
| 2840 | 256413.33 | 4085527.91 | 6.6923E-06 | 9.68E-05 | 7.13E-06 | 7.13E-05 | 3.98E-05 | 1.02E-06 | 1.47E-05 | 1.13E-06 | 1.11E-06 | 6.12E-06 | 5.52E-07 | 7.98E-06 | 4.96E-06 | 4.96E-06 | 2.45E-06 |
| 2841 | 256403.38 | 4085506.3 | 6.3788E-06 | 9.23E-05 | 6.80E-05 | 6.80E-05 | 3.79E-06 | 9.68E-07 | 1.41E-05 | 1.06E-06 | 1.06E-06 | 5.84E-06 | 5.26E-07 | 7.60E-06 | 4.72E-06 | 4.72E-06 | 2.34E-06 |
| 2842 | 25E393.43 | 4085484.69 | 6.1165E-06 | 8.85E-05 | 6.52E-06 | 6.52E-05 | 3.64E-06 | 9.28E-07 | 1.35E-05 | 1.02E-05 | 1.02E-05 | 5.60E-06 | 5.04E-07 | 7.29E-06 | 4.53E-06 | 4.53E-06 | 2.24E-06 |
| 2843 | 256383.48 | 4085463.08 | 5.8952E-06 | 8.53E-05 | 6.28E-06 | 6.28E-06 | 3.50E-05 | 8.95E-07 | 1.30E-06 | 9.81E-06 | 9.81E-06 | 5.39E-06 | 4.86E-07 | 7.03E-06 | 4.37E-06 | 4.37E-06 | 2.16E-06 |
| 2844 | 256373.52 | 4085441.47 | 5.7088E-06 | 8.26E-06 | 6.09E-06 | 6.09E-06 | 3.39E-06 | 8.66E-07 | 1.26E-06 | 9.50E-06 | 9.50E-06 | 5.22E-06 | 4.71E-07 | 6.81E-06 | 4.23E-06 | 4.23E-06 | 2.09E-06 |
| 2845 | 256363.57 | 4085419.85 | 0.000005551 | 8.03E-05 | 5.92E-05 | 5.92E-05 | 3.30E-05 | 8.42E-07 | 1.22E-05 | 9.24E-06 | 9.24E-06 | 5.08E-06 | 4.58E-07 | 6.62E-06 | 4.11E-06 | 4.11E-06 | 2.03E-06 |
| 2846 | 256353.62 | 4085398.24 | 5.4117E-06 | 7.83E-05 | 5.77E-05 | 5.77E-06 | 3.22E-06 | 8.23E-07 | 1.19E-06 | 9.01E-06 | 9.01E-06 | 4.95E-06 | 4.46E-07 | 6.45E-06 | 4.01E-06 | 4.01E-06 | 1.98E-06 |
| 2847 | 256343.67 | 4085376.63 | 5.2846E-06 | 7.64E-05 | 5.63E-06 | 5.63E-05 | 3.14E-05 | 6.02E-07 | 1.16E-06 | 8.80E-06 | 8.80E-06 | 4.84E-06 | 4.36E-07 | 6.30E-06 | 3.91E-06 | 3.91E-06 | 1.94E-06 |
| 2848 | 256333.72 | 4085355.02 | 5.1658E-06 | 7.47E-05 | 5.51E-05 | 5.51E-05 | 3.07E-05 | 7.84E-07 | 1.14E-05 | 6.60E-06 | 8.60E-06 | 4.73E-06 | 4.26E-07 | 6.16E-06 | 3.83E-06 | 3.83E-06 | 1.89E-06 |
| 2849 | 256323.76 | 4085333.41 | 0.000005051 | 7.31E-05 | 5.38E-05 | 5.38E-05 | 3.00E-05 | 7.67E-07 | 1.11E-05 | 8.41E-06 | 6.41E-06 | 4.62E-06 | 4.16E-07 | 6.02E-06 | 3.74E-06 | 3.74E-06 | 1.85E-06 |
| 2850 | 256313.81 | 4085311.79 | 4.9404E-06 | 7.15E-05 | 5.27E-06 | 5.27E-05 | 2.94E-05 | 7.50E-07 | 1.09E-05 | 6.22E-06 | 8.22E-06 | 4.52E-06 | 4.07E-07 | 5.89E-06 | 3.66E-06 | 3.66E-06 | 1.61E-06 |
| 2851 | 256303.86 | 4085290.18 | 4.8338E-06 | 6.99E-05 | 5.25E-05 | 5.25E-05 | 2.87E-05 | 7.34E-07 | 1.07E-06 | 8.05E-06 | 8.05E-06 | 4.42E-06 | 3.98E-07 | 5.76E-06 | 3.58E-06 | 3.58E-06 | 1.77E-06 |
| 2852 | 256293.91 | 4085268.57 | 4.7334E-06 | 6.85E-05 | 5.05E-05 | 5.05E-05 | 2.81E-06 | 7.18E-07 | 1.04E-05 | 7.88E-06 | 7.88E-06 | 4.33E-06 | 3.90E-07 | 5.84E-06 | 3.51E-06 | 3.51E-06 | 1.74E-06 |
| 2853 | 256283.96 | 4085246.96 | 4.6412E-06 | 6.71E-05 | 4.95E-05 | 4.95E-06 | 2.76E-05 | 7.04E-07 | 1.02E-05 | 7.73E-06 | 7.73E-06 | 4.25E-06 | 3.83E-07 | 5.53E-06 | 3.44E-06 | 3.44E-06 | 1.70E-06 |
| 2854 | 256274 | 4085225.35 | 4.5592E-06 | 8.59E-05 | 4.85E-05 | 4.86E-05 | 2.71E-06 | 6.92E-07 | 1.00E-05 | 7.59E-06 | 7.59E-06 | 4.17E-06 | 3.76E-07 | 5.44E-06 | 3.38E-06 | 3.38E-06 | 1.67E-06 |
| 2855 | 257620.68 | 4086454.33 | 6.9259E-06 | 1.29E-04 | 9.52E-05 | 9.52E-05 | 5.30E-05 | 1.35E-06 | 1.97E-06 | 1.49E-05 | 1.49E-05 | 8.17E-06 | 7.36E-07 | 1.06E-05 | 6.61E-06 | 6.61E-06 | 3.27E-06 |
| 2856 | 257644.96 | 4086453.25 | 6.8132E-06 | 1.27E-04 | 9.40E-06 | 9.40E-05 | 5.24E-05 | 1.34E-06 | 1.94E-05 | 1.47E-05 | 1.47E-06 | 8.06E-06 | 7.26E-07 | 1.05E-05 | 6.53E-06 | 6.53E-06 | 3.23E-06 |
| 2857 | 257669.24 | 4086452.18 | 6.7005E-06 | 1.28E-04 | 9.28E-06 | 9.28E-05 | 5.17E-05 | 1.32E-06 | 1.92E-05 | 1.45E-06 | 1.45E-06 | 7.96E-06 | 7.17E-07 | 1.04E-05 | 6.44E-06 | 6.44E-06 | 3.19E-06 |
| 2858 | 257693.53 | 4086451.1 | 8.5837E-06 | 1.24E-04 | 9.15E-05 | 9.15E-05 | 5.10E-06 | 1.30E-06 | 1.89E-05 | 1.43E-05 | 1.43E-05 | 7.85E-06 | 7.08E-07 | 1.02E-06 | 6.36E-06 | 6.36E-06 | 3.15E-06 |
| 2859 | 257717.81 | 4086450.02 | 8.4669E-06 | 1.22E-04 | 9.03E-05 | 9.03E-06 | 5.03E-06 | 1.29E-06 | 1.87E-05 | 1.41E-05 | 1.41E-05 | 7.75E-06 | 6.98E-07 | 1.01E-05 | 6.27E-06 | 6.27E-06 | 3.10E-06 |
| 2860 | 257742.09 | 4086448.95 | 8.3501E-06 | 1.21E-04 | 8.90E-06 | 6.90E-06 | 4.96E-06 | 1.27E-06 | 1.84E-06 | 1.39E-05 | 1.39E-06 | 7.64E-06 | 6.88E-07 | 9.96E-06 | 6.18E-06 | 6.18E-06 | 3.06E-06 |
| 2861 | 257766.37 | 4086447.87 | 8.2497E-06 | 1.19E-04 | 8.79E-06 | 8.79E-06 | 4.90E-06 | 1.25E-06 | 1.82E-05 | 1.37E-05 | 1.37E-06 | 7.55E-06 | 6.80E-07 | 9.84E-06 | 6.11E-06 | 6.11E-06 | 3.02E-06 |
| 2862 | 257790.65 | 4086446.8 | 6.1513E-06 | 1.18E-04 | 8.69E-05 | 8.69E-05 | 4.84E-05 | 1.24E-06 | 1.80E-06 | 1.36E-05 | 1.36E-05 | 7.46E-06 | 6.72E-07 | 9.72E-06 | 6.04E-06 | 6.04E-06 | 2.99E-06 |
| 2863 | 257814.94 | 4086445.72 | 8.0529E-06 | 1.16E-04 | 8.58E-05 | 8.58E-06 | 4.79E-05 | 1.22E-06 | 1.77E-05 | 1.34E-06 | 1.34E-05 | 7.37E-06 | 6.64E-07 | 9.60E-06 | 5.96E-06 | 5.96E-06 | 2.95E-06 |
| 2864 | 257839.22 | 4086444.65 | 7.9525E-06 | 1.15E-04 | 8.48E-05 | 8.48E-05 | 4.73E-06 | 1.21E-06 | 1.75E-05 | 1.32E-05 | 1.32E-05 | 7.28E-06 | 6.56E-07 | 9.48E-06 | 5.89E-06 | 5.89E-06 | 2.92E-06 |
| 2865 | 257863.5 | 4086443.57 | 7.8501E-06 | 1.14E-04 | 8.37E-05 | 8.37E-05 | 4.67E-05 | 1.19E-06 | 1.73E-05 | 1.31E-05 | 1.31E-05 | 7.18E-06 | 6.47E-07 | 9.36E-06 | 5.81E-06 | 5.81E-06 | 2.88E-06 |
| 2866 | 257887.78 | 4086442.5 | 7.7415E-06 | 1.12E-04 | 8.25E-05 | 8.25E-05 | 4.60E-06 | 1.17E-06 | 1.71E-05 | 1.29E-06 | 1.29E-05 | 7.08E-06 | 6.38E-07 | 9.23E-06 | 5.73E-06 | 5.73E-06 | 2.84E-06 |
| 2867 | 257912.06 | 4086441.42 | 7.6288E-06 | 1.10E-04 | 8.13E-06 | 8.13E-06 | 4.53E-06 | 1.16E-06 | 1.68E-06 | 1.27E-05 | 1.27E-06 | 8.98E-06 | 8.29E-07 | 9.10E-06 | 5.65E-06 | 5.65E-06 | 2.80E-06 |
| 2868 | 257936.34 | 4086440.35 | 7.5058E-05 | 1.09E-04 | 8.00E-05 | 8.00E-05 | 4.46E-05 | 1.14E-06 | 1.65E-05 | 1.25E-05 | 1.25E-05 | 6.87E-06 | 6.19E-07 | 8.95E-06 | 5.56E-06 | 5.56E-06 | 2.75E-06 |
| 2869 | 257960.63 | 4086439.27 | 7.3788E-06 | 1.07E-04 | 7.87E-06 | 7.87E-05 | 4.39E-05 | 1.12E-06 | 1.63E-05 | 1.23E-06 | 1.23E-06 | 6.75E-06 | 6.08E-07 | 8.80E-06 | 5.46E-06 | 5.46E-06 | 2.70E-06 |
| 2870 | 257984.91 | 4086438.19 | 7.2436E-06 | 1.05E-04 | 7.72E-05 | 7.72E-06 | 4.31E-05 | 1.10E-06 | 1.60E-05 | 1.21E-06 | 1.21E-06 | 6.63E-06 | 5.97E-07 | 8.64E-06 | 5.36E-06 | 5.36E-06 | 2.66E-06 |
| 2871 | 258009.19 | 4086437.12 | 7.1022E-06 | 1.03E-04 | 7.57E-05 | 7.57E-06 | 4.22E-05 | 1.08E-06 | 1.56E-05 | 1.18E-05 | 1.18E-05 | 6.50E-06 | 5.85E-07 | 8.47E-06 | 5.26E-06 | 5.26E-06 | 2.60E-06 |
| 2872 | 258033.47 | 4086436.04 | 6.9587E-06 | 1.01E-04 | 7.42E-05 | 7.42E-05 | 4.14E-05 | 1.06E-06 | 1.53E-05 | 1.16E-05 | 1.16E-05 | 6.37E-06 | 5.74E-07 | 8.30E-06 | 5.15E-06 | 5.15E-06 | 2.55E-06 |
| 2873 | 258057.75 | 4086434.97 | 6.8153E-06 | 9.86E-06 | 7.27E-06 | 7.27E-06 | 4.05E-06 | 1.03E-06 | 1.50E-05 | 1.13E-06 | 1.13E-05 | 6.24E-06 | 5.62E-07 | 8.13E-06 | 5.05E-06 | 5.05E-06 | 2.50E-06 |
| 2874 | 258082.04 | 4086433.89 | 6.6719E-06 | 9.65E-06 | 7.11E-05 | 7.11E-05 | 3.97E-06 | 1.01E-06 | 1.47E-05 | 1.11E-05 | 1.11E-06 | 6.11E-06 | 5.50E-07 | 7.95E-06 | 4.94E-06 | 4.94E-06 | 2.45E-06 |
| 2875 | 258106.32 | 4086432.82 | 6.5325E-06 | 9.45E-06 | 8.96E-06 | 6.96E-05 | 3.88E-05 | 9.91E-07 | 1.44E-05 | 1.09E-05 | 1.09E-05 | 5.98E-06 | 5.35E-07 | 7.79E-06 | 4.84E-06 | 4.84E-06 | 2.39E-06 |
| 2876 | 258130.6 | 4086431.74 | 6.4014E-06 | 9.26E-06 | 6.82E-05 | 6.82E-05 | 3.80E-06 | 9.72E-07 | 1.41E-05 | 1.07E-05 | 1.07E-05 | 5.86E-06 | 5.28E-07 | 7.63E-06 | 4.74E-06 | 4.74E-06 | 2.35E-06 |
| 2877 | 258154.88 | 4086430.67 | 6.2784E-06 | 9.08E-06 | 6.69E-05 | 6.69E-06 | 3.73E-05 | 9.53E-07 | 1.38E-05 | 1.05E-05 | 1.05E-06 | 5.75E-06 | 5.18E-07 | 7.49E-06 | 4.65E-06 | 4.65E-06 | 2.30E-06 |
| 2878 | 258179.16 | 4086429.59 | 6.1637E-08 | 8.91E-05 | 6.57E-05 | 6.57E-06 | 3.66E-05 | 9.35E-07 | 1.36E-05 | 1.03E-05 | 1.03E-06 | 5.64E-06 | 5.08E-07 | 7.35E-06 | 4.56E-06 | 4.56E-06 | 2.26E-06 |
| 2879 | 258203.44 | 4086428.52 | 6.0551E-06 | 8.76E-05 | 6.45E-05 | 6.45E-05 | 3.60E-05 | 9.19E-07 | 1.33E-05 | 1.01E-05 | 1.01E-06 | 5.54E-06 | 4.99E-07 | 7.22E-06 | 4.48E-06 | 4.48E-06 | 2.22E-06 |
| 2880 | 258227.73 | 4086427.44 | 5.9526E-06 | 8.61E-05 | 6.35E-05 | 6.35E-05 | 3.54E-05 | 9.03E-07 | 1.31E-05 | 9.91E-06 | 9.91E-06 | 5.45E-06 | 4.91E-07 | 7.10E-06 | 4.41E-06 | 4.41E-06 | 2.18E-06 |
| 2881 | 258252.01 | 4086426.36 | 5.8543E-06 | 8.47E-05 | 6.24E-06 | 6.24E-05 | 3.48E-05 | 8.89E-07 | 1.29E-05 | 9.74E-06 | 9.74E-06 | 5.36E-06 | 4.83E-07 | 6.98E-06 | 4.34E-06 | 4.34E-06 | 2.15E-06 |
| 2882 | 258276.29 | 4086425.29 | 5.7539E-06 | 8.32E-05 | 6.13E-05 | 6.13E-06 | 3.42E-05 | 8.73E-07 | 1.27E-05 | 9.58E-06 | 9.58E-06 | 5.27E-06 | 4.74E-07 | 6.86E-06 | 4.26E-06 | 4.26E-06 | 2.11E-06 |
| 2883 | 258300.57 | 4086424.21 | 5.6514E-06 | 8.17E-06 | 6.02E-05 | 8.02E-06 | 3.36E-06 | 6.58E-07 | 1.25E-05 | 9.41E-06 | 9.41E-06 | 5.17E-06 | 4.66E-07 | 6.74E-06 | 4.19E-06 | 4.19E-06 | 2.07E-06 |
| 2884 | 258324.85 | 4086423.14 | 5.5469E-06 | 8.02E-05 | 5.91E-05 | 5.91E-05 | 3.30E-06 | 6.42E-07 | 1.22E-05 | 9.23E-06 | 9.23E-06 | 5.08E-06 | 4.57E-07 | 6.61E-06 | 4.11E-06 | 4.11E-06 | 2.03E-06 |
| 2885 | 258349.14 | 4086422.06 | 5.4403E-06 | 7.87E-05 | 5.80E-05 | 5.80E-06 | 3.23E-05 | 8.26E-07 | 1.20E-05 | 9.06E-06 | 9.06E-06 | 4.98E-06 | 4.48E-07 | 6.49E-06 | 4.03E-06 | 4.03E-06 | 1.99E-06 |
| 2886 | 258373.42 | 4086420.99 | 5.3317E-06 | 7.71E-05 | 5.68E-05 | 5.68E-05 | 3.17E-05 | 8.09E-07 | 1.17E-05 | 8.87E-06 | 8.87E-06 | 4.88E-06 | 4.39E-07 | 6.36E-06 | 3.95E-06 | 3.95E-06 | 1.95E-06 |
| 2887 | 258397.7 | 4086419.91 | 5.2231E-06 | 7.55E-06 | 5.57E-05 | 5.57E-06 | 3.10E-05 | 7.93E-07 | 1.15E-05 | 8.69E-06 | 6.69E-06 | 4.78E-06 | 4.33E-07 | 6.23E-06 | 3.87E-06 | 3.87E-06 | 1.91E-06 |
| 2888 | 258421.98 | 4086418.84 | 5.1145E-06 | 7.40E-05 | 5.45E-06 | 5.45E-05 | 3.04E-05 | 7.76E-07 | 1.13E-05 | 6.51E-06 | 8.51E-06 | 4.68E-06 | 4.22E-07 | 6.10E-06 | 3.79E-06 | 3.79E-06 | 1.87E-06 |
| 2889 | 257606.97 | 4086645.89 | 7.2661E-06 | 1.05E-04 | 7.75E-05 | 7.75E-06 | 4.32E-05 | 1.10E-06 | 1.50E-05 | 1.21E-05 | 1.21E-05 | 6.65E-06 | 5.99E-07 | 8.66E-06 | 5.38E-06 | 5.38E-06 | 2.66E-06 |
| 2890 | 257584.4 | 4086637.65 | 7.4034E-06 | 1.07E-04 | 7.89E-06 | 7.89E-06 | 4.40E-06 | 1.12E-06 | 1.63E-05 | 1.23E-06 | 1.23E-05 | 6.77E-06 | 6.10E-07 | 8.83E-06 | 5.48E-06 | 5.48E-06 | 2.71E-06 |
| 2891 | 257561.84 | 4086629.4 | 7.5489E-06 | 1.09E-04 | 8.06E-05 | 8.05E-05 | 4.49E-06 | 1.15E-06 | 1.66E-05 | 1.26E-06 | 1.26E-05 | 6.91E-06 | 6.22E-07 | 9.00E-06 | 5.59E-06 | 5.59E-06 | 2.77E-06 |
| 2892 | 257539.28 | 4086621.16 | 7.6964E-06 | 1.11E-04 | 8.20E-05 | 8.20E-06 | 4.57E-05 | 1.17E-06 | 1.70E-05 | 1.28E-05 | 1.28E-05 | 7.04E-06 | 6.34E-07 | 9.18E-06 | 5.70E-06 | 5.70E-06 | 2.82E-06 |
| 2893 | 257516.71 | 4086612.92 | 7.8501E-06 | 1.14E-04 | 8.37E-05 | 6.37E-06 | 4.67E-05 | 1.19E-06 | 1.73E-05 | 1.31E-06 | 1.31E-05 | 7.18E-06 | 6.47E-07 | 9.36E-06 | 5.81E-06 | 5.81E-06 | 2.88E-06 |
| 2894 | 257494.15 | 4086604.68 | 8.0058E-06 | 1.16E-04 | 8.53E-05 | 8.53E-06 | 4.76E-06 | 1.22E-06 | 1.76E-05 | 1.33E-05 | 1.33E-06 | 7.33E-06 | 6.60E-07 | 9.54E-06 | 5.93E-06 | 5.93E-06 | 2.93E-06 |
| 2895 | 257471.59 | 4086596.43 | 8.1615E-06 | 1.18E-04 | 8.70E-05 | 8.70E-05 | 4.85E-05 | 1.24E-06 | 1.80E-05 | 1.36E-06 | 1.36E-05 | 7.47E-06 | 6.73E-07 | 9.73E-06 | 6.04E-06 | 6.04E-06 | 2.99E-06 |
| 2896 | 257449.02 | 4086588.19 | 8.3152E-06 | 1.20E-04 | 8.86E-05 | 8.86E-06 | 4.94E-05 | 1.26E-06 | 1.83E-05 | 1.38E-05 | 1.38E-05 | 7.61E-06 | 6.85E-07 | 9.91E-06 | 6.16E-06 | 6.16E-06 | 3.05E-06 |
| 2897 | 257426.46 | 4086579.95 | 8.4628E-06 | 1.22E-04 | 9.02E-06 | 9.02E-06 | 5.03E-06 | 1.28E-06 | 1.86E-05 | 1.41E-06 | 1.41E-05 | 7.74E-06 | 6.98E-07 | 1.01E-06 | 6.27E-06 | 6.27E-06 | 3.10E-06 |
| 2898 | 257403.89 | 4086371.7 | 6.6041E-06 | 1.24E-04 | 9.17E-05 | 9.17E-05 | 5.11E-05 | 1.31E-06 | 1.90E-05 | 1.43E-06 | 1.43E-06 | 7.87E-06 | 7.09E-07 | 1.03E-05 | 6.37E-06 | 6.37E-06 | 3.25E-06 |
| 2899 | 257381.33 | 4086563.46 | 8.7373E-06 | 1.26E-04 | 9.31E-05 | 9.31E-05 | 5.19E-05 | 1.33E-06 | 1.93E-05 | 1.45E-05 | 1.45E-05 | 8.00E-06 | 7.20E-07 | 1.04E-05 | 6.47E-06 | 6.47E-06 | 3.20E-06 |
| 2900 | 257358.77 | 4086555.22 | 6.8582E-06 | 1.28E-04 | 9.44E-05 | 9.44E-06 | 5.26E-05 | 1.34E-06 | 1.95E-05 | 1.47E-06 | 1.47E-06 | 6.11E-06 | 7.30E-07 | 1.06E-05 | 6.56E-06 | 6.56E-06 | 3.25E-06 |
| 2901 | 257336.2 | 4086546.98 | 8.9709E-06 | 1.30E-04 | 9.56E-05 | 9.56E-05 | 5.33E-06 | 1.36E-06 | 1.98E-06 | 1.49E-05 | 1.49E-05 | 8.21E-06 | 7.39E-07 | 1.07E-05 | 6.64E-06 | 6.64E-06 | 3.29E-06 |
| 2902 | 257313.64 | 4086538.73 | 9.0734E-06 | 1.31E-04 | 9.67E-05 | 9.67E-06 | 5.39E-06 | 1.38E-06 | 2.00E-05 | 1.51E-05 | 1.51E-05 | 8.30E-06 | 7.48E-07 | 1.08E-05 | 6.72E-06 | 6.72E-06 | 3.33E-06 |
| 2903 | 257291.08 | 4086530.49 | 9.1697E-06 | 1.33E-04 | 9.76E-06 | 9.76E-05 | 5.45E-05 | 1.39E-06 | 2.02E-05 | 1.53E-06 | 1.53E-05 | 8.39E-06 | 7.56E-07 | 1.09E-05 | 6.79E-06 | 6.79E-06 | 3.36E-06 |
| 2904 | 257258.51 | 4086522.25 | 9.2619E-06 | 1.34E-04 | 9.87E-06 | 9.87E-05 | 5.50E-05 | 1.41E-06 | 2.04E-06 | 1.54E-05 | 1.54E-05 | 8.48E-06 | 7.83E-07 | 1.10E-05 | 6.86E-06 | 6.86E-06 | 3.40E-06 |
| 2905 | 257245.95 | 4086514.01 | 9.3582E-06 | 1.35E-04 | 9.98E-06 | 9.98E-05 | 5.56E-05 | 1.42E-06 | 2.06E-05 | 1.56E-05 | 1.56E-06 | 8.56E-06 | 7.71E-07 | 1.12E-05 | 6.93E-06 | 6.93E-06 | 3.43E-06

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2688 | 257203.37 | 4086105.31 | 0.000014985 | 2.17E-04 | 1.60E-04 | 1.60E-04 | 6.91E-05 |
| 2689 | 257180.67 | 4086097.02 | 0.00001312 | 2.19E-04 | 1.61E-04 | 1.61E-04 | 6.99E-05 |
| 2690 | 257157.98 | 4086088.73 | 0.000013241 | 2.20E-04 | 1.62E-04 | 1.62E-04 | 9.06E-05 |
| 2691 | 257135.29 | 4086080.44 | 0.000015337 | 2.22E-04 | 1.64E-04 | 1.64E-04 | 9.12E-05 |
| 2692 | 257112.6 | 4086072.15 | 0.000015403 | 2.23E-04 | 1.64E-04 | 1.64E-04 | 9.15E-05 |
| 2693 | 257089.9 | 4086063.86 | 0.00001544 | 2.23E-04 | 1.65E-04 | 1.65E-04 | 9.18E-05 |
| 2694 | 257067.21 | 4086055.57 | 0.000015446 | 2.23E-04 | 1.65E-04 | 1.65E-04 | 9.18E-05 |
| 2695 | 257044.52 | 4086047.28 | 0.000015432 | 2.23E-04 | 1.65E-04 | 1.65E-04 | 9.17E-06 |
| 2696 | 257021.83 | 4086038.99 | 0.000015401 | 2.23E-04 | 1.64E-04 | 1.64E-04 | 9.15E-05 |
| 2697 | 256999.13 | 4086030.7 | 0.000015362 | 2.22E-04 | 1.64E-04 | 1.64E-04 | 9.13E-05 |
| 2698 | 256976.44 | 4086022.41 | 0.000015325 | 2.22E-04 | 1.63E-04 | 1.63E-04 | 9.11E-06 |
| 2699 | 256953.75 | 4086014.12 | 0.000015288 | 2.21E-04 | 1.63E-04 | 1.63E-04 | 9.09E-05 |
| 2700 | 256931.06 | 4086005.63 | 0.000015258 | 2.21E-04 | 1.63E-04 | 1.63E-04 | 9.07E-05 |
| 2701 | 256908.36 | 4085997.54 | 0.000015229 | 2.20E-04 | 1.62E-04 | 1.62E-04 | 9.05E-06 |
| 2702 | 256685.67 | 4085989.25 | 0.0000152 | 2.20E-04 | 1.62E-04 | 1.62E-04 | 9.03E-05 |
| 2703 | 256862.98 | 4085980.96 | 0.000015169 | 2.19E-04 | 1.62E-04 | 1.62E-04 | 9.02E-05 |
| 2704 | 256840.29 | 4085972.67 | 0.000015135 | 2.19E-04 | 1.61E-04 | 1.61E-04 | 9.00E-05 |
| 2705 | 256807.49 | 4085942.44 | 0.000015342 | 2.22E-04 | 1.64E-04 | 1.64E-04 | 9.12E-05 |
| 2706 | 256787.38 | 4085920.49 | 0.000015571 | 2.25E-04 | 1.66E-04 | 1.66E-04 | 9.25E-06 |
| 2707 | 256787.28 | 4085896.55 | 0.000015776 | 2.28E-04 | 1.68E-04 | 1.68E-04 | 9.38E-05 |
| 2708 | 256777.17 | 4085876.61 | 0.000015942 | 2.31E-04 | 1.70E-04 | 1.70E-04 | 9.48E-05 |
| 2709 | 256767.07 | 4085854.66 | 0.000016063 | 2.32E-04 | 1.71E-04 | 1.71E-04 | 9.55E-05 |
| 2710 | 256756.96 | 4085832.72 | 0.000016122 | 2.33E-04 | 1.72E-04 | 1.72E-04 | 9.58E-05 |
| 2711 | 256746.86 | 4085810.77 | 0.000016114 | 2.33E-04 | 1.72E-04 | 1.72E-04 | 9.58E-06 |
| 2712 | 256736.75 | 4085788.83 | 0.000016032 | 2.32E-04 | 1.73E-04 | 1.71E-04 | 9.53E-06 |
| 2713 | 256726.65 | 4085766.88 | 0.000015868 | 2.30E-04 | 1.69E-04 | 1.69E-04 | 9.43E-05 |
| 2714 | 256716.54 | 4085744.94 | 0.000015622 | 2.26E-04 | 1.67E-04 | 1.67E-04 | 9.28E-05 |
| 2715 | 256706.44 | 4085722.99 | 0.000015294 | 2.21E-04 | 1.63E-04 | 1.63E-04 | 9.09E-06 |
| 2716 | 256696.33 | 4085701.05 | 0.000014915 | 2.16E-04 | 1.59E-04 | 1.59E-04 | 8.86E-05 |
| 2717 | 256686.23 | 4085679.11 | 0.00001443 | 2.09E-04 | 1.54E-04 | 1.54E-04 | 8.58E-05 |
| 2718 | 256676.12 | 4085657.16 | 0.000013874 | 2.01E-04 | 1.48E-04 | 1.48E-04 | 6.25E-05 |
| 2719 | 256666.02 | 4085635.22 | 0.00001326 | 1.92E-04 | 1.41E-04 | 1.41E-04 | 7.88E-06 |
| 2720 | 256655.91 | 4085613.27 | 0.000012594 | 1.82E-04 | 1.34E-04 | 1.34E-04 | 7.48E-05 |
| 2721 | 256645.81 | 4085591.33 | 0.000011897 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.07E-05 |
| 2772 | 256635.7 | 4085569.38 | 0.000011184 | 1.62E-04 | 1.19E-04 | 1.19E-04 | 6.65E-05 |
| 2723 | 256625.6 | 4085547.44 | 0.000010479 | 1.52E-04 | 1.12E-04 | 1.12E-04 | 6.23E-05 |
| 2724 | 256615.49 | 4085525.5 | 9.8029E-06 | 1.42E-04 | 1.05E-04 | 1.05E-04 | 5.63E-05 |
| 2725 | 256605.39 | 4085503.55 | 9.1738E-06 | 1.33E-04 | 9.78E-06 | 9.78E-06 | 5.45E-06 |
| 2726 | 256595.28 | 4085481.61 | 6.6041E-06 | 1.24E-04 | 9.17E-05 | 9.17E-05 | 5.11E-06 |
| 2727 | 256585.18 | 4085459.66 | 8.1021E-06 | 1.17E-04 | 8.64E-05 | 8.64E-05 | 4.82E-05 |
| 2728 | 256575.07 | 4085437.72 | 7.6718E-06 | 1.11E-04 | 8.18E-05 | 6.18E-06 | 4.56E-06 |
| 2729 | 256564.97 | 4085415.77 | 7.3091E-06 | 1.06E-04 | 7.79E-05 | 7.79E-05 | 4.34E-05 |
| 2730 | 256554.86 | 4085393.83 | 7.0059E-06 | 1.01E-04 | 7.47E-05 | 7.47E-05 | 4.16E-06 |
| 2731 | 256544.76 | 4085371.88 | 6.7497E-06 | 9.76E-05 | 7.20E-05 | 7.20E-05 | 4.01E-06 |
| 2732 | 256534.65 | 4085349.94 | 6.5284E-06 | 9.44E-05 | 6.96E-05 | 6.96E-05 | 3.88E-05 |
| 2733 | 256524.54 | 4085328 | 6.3338E-06 | 9.16E-06 | 6.75E-06 | 6.75E-06 | 3.76E-05 |
| 2734 | 256514.44 | 4085306.05 | 6.1375E-06 | 6.91E-06 | 6.56E-06 | 6.56E-05 | 3.66E-06 |
| 2735 | 256504.33 | 4085284.11 | 5.9916E-06 | 8.67E-05 | 6.39E-05 | 6.39E-06 | 3.56E-06 |
| 2736 | 256494.23 | 4085262.16 | 5.8399E-06 | 6.45E-05 | 6.23E-05 | 6.23E-06 | 3.47E-06 |
| 2737 | 256484.12 | 4085240.22 | 5.6985E-06 | 8.24E-05 | 6.07E-05 | 6.07E-05 | 3.39E-05 |
| 2738 | 256474.02 | 4085218.27 | 5.5735E-06 | 8.06E-05 | 5.94E-05 | 5.94E-05 | 3.31E-05 |
| 2739 | 257611.83 | 4086254.52 | 0.000011704 | 1.69E-04 | 1.25E-04 | 1.25E-04 | 6.96E-05 |
| 2740 | 257636.11 | 4086253.45 | 0.000011575 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.88E-05 |
| 2741 | 257660.4 | 4086252.37 | 0.000011432 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.79E-06 |
| 2742 | 257684.68 | 4086251.3 | 0.000011274 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.70E-05 |
| 2743 | 257708.96 | 4086250.22 | 0.000011106 | 1.61E-04 | 1.18E-04 | 1.18E-04 | 6.60E-05 |
| 2744 | 257733.24 | 4086249.13 | 0.000010928 | 1.58E-04 | 1.16E-04 | 1.16E-04 | 8.49E-05 |
| 2745 | 257757.52 | 4086248.07 | 0.000010748 | 1.55E-04 | 1.15E-04 | 1.15E-04 | 6.39E-06 |
| 2746 | 257781.8 | 4086246.99 | 0.000010563 | 1.53E-04 | 1.13E-04 | 1.13E-04 | 6.28E-06 |
| 2747 | 257806.09 | 4086245.92 | 0.000010373 | 1.50E-04 | 1.11E-04 | 1.11E-04 | 6.16E-06 |
| 2748 | 257830.37 | 4086244.84 | 0.000010178 | 1.47E-04 | 1.09E-04 | 1.09E-04 | 6.05E-06 |
| 2749 | 257854.65 | 4086243.77 | 0.00001002 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.94E-06 |
| 2750 | 257878.93 | 4086242.69 | 9.8152E-06 | 1.42E-04 | 1.05E-04 | 1.05E-04 | 5.83E-06 |
| 2751 | 257903.21 | 4086241.62 | 9.6369E-06 | 1.39E-04 | 1.03E-04 | 1.03E-04 | 5.73E-05 |
| 2752 | 257927.5 | 4086240.54 | 9.4689E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.63E-06 |
| 2753 | 257951.78 | 4086239.47 | 9.3029E-06 | 1.35E-04 | 9.92E-06 | 9.92E-05 | 5.53E-06 |
| 2754 | 257876.06 | 4086238.39 | 0.000009139 | 1.32E-04 | 9.74E-05 | 9.74E-05 | 5.43E-06 |
| 2755 | 258000.34 | 4086237.32 | 0.000008975 | 1.30E-04 | 9.57E-05 | 9.57E-05 | 5.33E-06 |
| 2756 | 258024.62 | 4086236.24 | 8.811E-06 | 1.27E-04 | 9.39E-05 | 9.39E-06 | 5.24E-06 |
| 2757 | 258048.9 | 4086235.16 | 8.6472E-06 | 1.25E-04 | 9.22E-05 | 9.22E-05 | 5.14E-05 |
| 2758 | 258073.19 | 4086234.09 | 6.4833E-06 | 1.23E-04 | 9.04E-05 | 9.04E-06 | 5.04E-06 |
| 2759 | 258097.47 | 4086233.01 | 8.3193E-06 | 1.20E-04 | 8.87E-06 | 8.87E-06 | 4.94E-06 |
| 2760 | 258121.75 | 4086231.94 | 8.1779E-06 | 1.18E-04 | 8.72E-05 | 8.72E-05 | 4.86E-05 |
| 2761 | 258146.03 | 4086230.86 | 8.0222E-06 | 1.16E-04 | 8.55E-05 | 8.55E-05 | 4.77E-05 |
| 2762 | 258170.31 | 4086229.79 | 7.8583E-06 | 1.14E-04 | 8.38E-05 | 8.38E-05 | 4.67E-05 |
| 2763 | 258194.6 | 4086228.71 | 7.6944E-06 | 1.11E-04 | 6.20E-06 | 8.20E-05 | 4.57E-06 |
| 2764 | 258218.88 | 4086227.64 | 7.5325E-06 | 1.09E-04 | 6.03E-05 | 8.03E-05 | 4.48E-06 |
| 2765 | 258243.16 | 4086226.56 | 7.3685E-06 | 1.07E-04 | 7.86E-06 | 7.86E-06 | 4.38E-06 |
| 2766 | 258267.44 | 4086225.49 | 7.2026E-06 | 1.04E-04 | 7.68E-06 | 7.68E-06 | 4.28E-06 |
| 2767 | 258291.72 | 4086224.41 | 7.0345E-06 | 1.02E-04 | 7.50E-06 | 7.50E-05 | 4.18E-05 |
| 2768 | 2583 16 | 4086223.33 | 6.8645E-06 | 9.93E-06 | 7.32E-05 | 7.32E-05 | 4.08E-06 |
| 2769 | 258340.29 | 4086222.26 | 6.6944E-06 | 9.68E-05 | 7.14E-05 | 7.14E-05 | 3.98E-05 |
| 2770 | 258364.57 | 4086221.18 | 6.5264E-06 | 9.44E-05 | 6.96E-06 | 6.96E-05 | 3.88E-05 |
| 2771 | 258388.85 | 4086220.11 | 6.3604E-06 | 9.20E-05 | 8.78E-05 | 6.76E-05 | 3.78E-06 |
| 2772 | 258413.13 | 4086219.03 | 6.1944E-06 | 6.96E-06 | 6.50E-06 | 6.60E-05 | 3.68E-06 |
| 2773 | 257598.33 | 4086446.16 | 9.1308E-06 | 1.32E-04 | 9.73E-05 | 9.73E-06 | 5.43E-05 |
| 2774 | 257575.98 | 4086438 | 9.3357E-06 | 1.35E-04 | 9.95E-05 | 9.95E-05 | 5.55E-06 |
| 2775 | 257553.64 | 4086429.83 | 9.5365E-06 | 1.38E-04 | 1.02E-04 | 1.02E-04 | 5.67E-06 |
| 2776 | 257531.29 | 4086421.67 | 9.7312E-06 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.78E-05 |
| 2777 | 257508.94 | 4086413.51 | 9.9197E-06 | 1.43E-04 | 1.06E-04 | 1.06E-04 | 5.90E-05 |
| 2778 | 257486.59 | 4086405.34 | 0.000010102 | 1.46E-04 | 1.08E-04 | 1.08E-04 | 6.00E-06 |
| 2779 | 257464.24 | 4086397.18 | 0.000010274 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.11E-06 |
| 2780 | 257441.89 | 4086389.01 | 0.000010438 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 6.20E-06 |
| 2781 | 257419.54 | 4086380.85 | 0.000010592 | 1.53E-04 | 1.13E-04 | 1.13E-04 | 6.29E-06 |
| 2782 | 257397.19 | 4086372.69 | 0.000010735 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 6.38E-06 |
| 2783 | 257374.85 | 4086364.52 | 0.000010868 | 1.57E-04 | 1.16E-04 | 1.16E-04 | 6.46E-06 |
| 2784 | 257352.5 | 4086356.36 | 0.000010993 | 1.59E-04 | 1.17E-04 | 1.17E-04 | 6.53E-06 |
| 2785 | 257330.15 | 4086348.19 | 0.000011108 | 1.61E-04 | 1.18E-04 | 1.18E-04 | 6.60E-06 |
| 2786 | 257307.8 | 4086340.03 | 0.000011219 | 1.62E-04 | 1.20E-04 | 1.20E-04 | 6.67E-06 |
| 2787 | 257285.45 | 4086331.87 | 0.000011325 | 1.64E-04 | 1.21E-04 | 1.21E-04 | 6.73E-05 |
| 2788 | 257263.1 | 4086323.7 | 0.00001143 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.79E-05 |
| 2789 | 257240.75 | 4086213.54 | 0.000011534 | 1.67E-04 | 1.13E-04 | 1.13E-04 | 6.86E-06 |
| 2790 | 257218.4 | 4086307.37 | 0.000011639 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.92E-05 |
| 2791 | 257196.06 | 4086299.21 | 0.000011743 | 1.70E-04 | 1.25E-04 | 1.25E-04 | 6.98E-06 |
| 2792 | 257173.71 | 4086291.04 | 0.00001185 | 1.71E-04 | 1.26E-04 | 1.26E-04 | 7.04E-06 |
| 2793 | 257151.36 | 4086282.88 | 0.000011983 | 1.73E-04 | 1.28E-04 | 1.28E-04 | 7.12E-06 |
| 2794 | 257129.01 | 4086274.72 | 0.0000121 | 1.75E-04 | 1.29E-04 | 1.29E-04 | 7.19E-06 |
| 2795 | 257306.66 | 4086266.55 | 0.000012194 | 1.76E-04 | 1.30E-04 | 1.30E-04 | 7.25E-06 |
| 2796 | 257084.31 | 4086258.39 | 0.000012276 | 1.76E-04 | 1.31E-04 | 1.31E-04 | 7.30E-06 |
| 2797 | 257061.96 | 4086250.22 | 0.000012344 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 |
| 2798 | 257039.61 | 4086242.06 | 0.000012395 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.37E-05 |
| 2799 | 257017.27 | 4086233.9 | 0.000012426 | 1.80E-04 | 1.32E-04 | 1.22E-04 | 7.38E-05 |
| 2800 | 256994.92 | 4086225.73 | 0.00001244 | 1.80E-04 | 1.33E-04 | 1.33E-04 | 7.39E-05 |
| 2801 | 256972.57 | 4086217.57 | 0.000012415 | 1.80E-04 | 1.32E-04 | 1.32E-04 | 7.38E-06 |
| 2802 | 256950.22 | 4086209.4 | 0.000012387 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.38E-06 |
| 2803 | 256927.87 | 4086201.24 | 0.00001237 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.35E-05 |
| 2804 | 256905.52 | 4086193.08 | 0.000012356 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 2.27E-06 | 3.30E-06 | 2.49E-06 | 2.49E-05 | 1.37E-06 | |
| 2.29E-06 | 3.33E-06 | 2.52E-05 | 2.52E-06 | 1.38E-05 | |
| 2.31E-06 | 3.36E-06 | 2.54E-06 | 2.54E-06 | 1.39E-05 | |
| 2.33E-06 | 3.38E-06 | 2.55E-06 | 2.55E-06 | 1.40E-06 | |
| 2.34E-06 | 3.39E-05 | 2.56E-06 | 2.38E-05 | 1.41E-06 | |
| 2.34E-06 | 3.40E-05 | 2.57E-05 | 2.57E-05 | 1.41E-05 | |
| 2.34E-06 | 3.40E-05 | 2.57E-06 | 2.57E-06 | 1.41E-05 | |
| 2.34E-06 | 3.40E-05 | 2.57E-05 | 2.57E-06 | 1.41E-06 | |
| 2.34E-06 | 3.39E-06 | 2.58E-05 | 2.56E-05 | 1.41E-05 | |
| 2.33E-06 | 3.38E-06 | 2.56E-06 | 2.56E-05 | 1.41E-06 | |
| 2.33E-06 | 3.38E-06 | 2.55E-06 | 2.55E-06 | 1.40E-06 | |
| 2.32E-06 | 3.37E-05 | 2.54E-05 | 2.54E-06 | 1.40E-05 | |
| 2.32E-06 | 3.36E-05 | 2.54E-05 | 2.54E-05 | 1.40E-05 | |
| 2.31E-06 | 3.36E-06 | 2.53E-06 | 2.53E-06 | 1.39E-06 | |
| 2.31E-05 | 3.35E-06 | 2.53E-06 | 2.53E-06 | 1.39E-06 | |
| 2.30E-06 | 3.34E-06 | 2.52E-06 | 2.52E-06 | 1.39E-06 | |
| 2.30E-06 | 3.33E-06 | 2.52E-06 | 2.52E-05 | 1.38E-05 | |
| 2.33E-05 | 3.38E-06 | 2.53E-06 | 2.55E-06 | 1.40E-06 | |
| 2.36E-06 | 3.43E-06 | 2.59E-05 | 2.59E-05 | 1.42E-05 | |
| 2.39E-06 | 3.48E-05 | 2.63E-05 | 2.63E-05 | 1.44E-06 | |
| 2.42E-06 | 3.51E-05 | 2.65E-06 | 2.65E-05 | 1.46E-06 | |
| 2.44E-06 | 3.54E-06 | 2.67E-06 | 2.67E-05 | 1.47E-06 | |
| 2.45E-06 | 3.55E-05 | 2.68E-06 | 2.68E-06 | 1.48E-06 | |
| 2.45E-06 | 3.55E-05 | 2.68E-05 | 2.66E-06 | 1.47E-06 | |
| 2.43E-06 | 3.53E-06 | 2.67E-05 | 2.67E-05 | 1.47E-06 | |
| 2.41E-06 | 3.50E-05 | 2.64E-06 | 2.64E-05 | 1.45E-06 | |
| 2.37E-06 | 3.44E-06 | 2.60E-05 | 2.60E-05 | 1.43E-06 | |
| 2.32E-06 | 3.37E-06 | 2.55E-06 | 2.55E-05 | 1.40E-06 | |
| 2.26E-05 | 3.29E-05 | 2.48E-05 | 2.48E-05 | 1.36E-05 | |
| 2.19E-06 | 3.18E-06 | 2.40E-05 | 2.40E-05 | 1.32E-06 | |
| 2.11E-06 | 3.06E-05 | 2.31E-06 | 2.31E-06 | 1.27E-06 | |
| 2.01E-06 | 2.92E-05 | 2.21E-05 | 2.21E-05 | 1.21E-05 | |
| 1.91E-06 | 2.77E-05 | 2.10E-06 | 2.10E-06 | 1.15E-05 | |
| 1.81E-06 | 1.62E-06 | 1.98E-06 | 1.98E-05 | 1.09E-05 | |
| 1.70E-06 | 2.46E-05 | 1.86E-05 | 1.86E-05 | 1.02E-06 | |
| 1.59E-06 | 2.31E-05 | 1.74E-06 | 1.74E-05 | 9.59E-06 | |
| 1.49E-06 | 2.16E-05 | 1.63E-06 | 1.63E-06 | 6.97E-06 | |
| 1.39E-06 | 2.02E-06 | 1.53E-06 | 1.53E-05 | 6.39E-06 | |
| 1.31E-06 | 1.90E-05 | 1.43E-05 | 1.43E-06 | 7.87E-06 | |
| 1.23E-06 | 1.79E-05 | 1.35E-05 | 1.35E-06 | 7.41E-06 | |
| 1.16E-06 | 1.69E-06 | 1.28E-06 | 1.28E-05 | 7.02E-06 | |
| 1.11E-06 | 1.61E-06 | 1.22E-05 | 1.22E-05 | 6.69E-06 | |
| 1.06E-06 | 1.54E-06 | 1.17E-05 | 1.17E-05 | 6.41E-06 | |
| 1.02E-06 | 1.49E-05 | 1.12E-05 | 1.12E-05 | 6.18E-06 | |
| 9.91E-07 | 1.44E-05 | 1.09E-05 | 1.09E-05 | 5.97E-06 | |
| 9.61E-07 | 1.40E-05 | 1.05E-05 | 1.05E-05 | 5.80E-05 | |
| 9.35E-07 | 1.36E-05 | 1.02E-05 | 1.02E-05 | 5.63E-06 | |
| 9.09E-07 | 1.32E-06 | 9.97E-06 | 9.97E-06 | 5.48E-06 | |
| 8.86E-07 | 1.29E-05 | 9.72E-06 | 9.72E-06 | 5.34E-06 | |
| 8.65E-07 | 1.26E-05 | 9.49E-06 | 9.49E-06 | 5.21E-06 | |
| 6.46E-07 | 1.23E-05 | 9.28E-06 | 9.28E-06 | 5.10E-06 | |
| 1.78E-06 | 2.58E-05 | 1.95E-05 | 1.95E-05 | 1.07E-05 | |
| 1.76E-06 | 2.55E-05 | 1.93E-05 | 1.93E-05 | 1.06E-05 | |
| 1.74E-06 | 2.52E-05 | 1.90E-05 | 1.90E-05 | 1.05E-05 | |
| 1.71E-06 | 2.48E-05 | 1.88E-06 | 1.88E-05 | 1.03E-05 | |
| 1.69E-06 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.02E-05 | |
| 1.66E-06 | 2.41E-06 | 1.82E-06 | 1.82E-05 | 1.00E-06 | |
| 1.63E-06 | 2.37E-06 | 1.79E-05 | 1.79E-06 | 9.83E-06 | |
| 1.60E-06 | 2.33E-06 | 1.76E-05 | 1.76E-05 | 9.67E-06 | |
| 1.57E-06 | 2.29E-06 | 1.73E-05 | 1.73E-05 | 9.49E-06 | |
| 1.54E-06 | 2.24E-06 | 1.69E-05 | 1.69E-06 | 9.31E-06 | |
| 1.52E-06 | 2.20E-05 | 1.66E-05 | 1.66E-05 | 9.15E-06 | |
| 1.49E-06 | 2.16E-05 | 1.63E-06 | 1.63E-05 | 8.96E-06 | |
| 1.46E-06 | 2.12E-06 | 1.60E-06 | 1.60E-06 | 8.82E-06 | |
| 1.44E-06 | 2.09E-06 | 1.58E-06 | 1.58E-06 | 8.66E-06 | |
| 1.41E-06 | 2.05E-06 | 1.55E-05 | 1.55E-05 | 8.51E-06 | |
| 1.39E-06 | 2.01E-05 | 1.52E-06 | 1.52E-06 | 8.38E-06 | |
| 1.36E-06 | 1.98E-06 | 1.49E-05 | 1.49E-06 | 8.21E-06 | |
| 1.34E-06 | 1.94E-05 | 1.47E-05 | 1.47E-05 | 6.06E-06 | |
| 1.31E-06 | 1.91E-05 | 1.44E-05 | 1.44E-06 | 7.91E-06 | |
| 1.29E-06 | 1.87E-06 | 1.41E-06 | 1.41E-06 | 7.76E-06 | |
| 1.26E-06 | 1.83E-05 | 1.38E-06 | 1.38E-05 | 7.61E-06 | |
| 1.24E-06 | 1.80E-05 | 1.36E-05 | 1.36E-05 | 7.48E-06 | |
| 1.22E-06 | 1.77E-05 | 1.34E-05 | 1.34E-05 | 7.34E-06 | |
| 1.19E-06 | 1.73E-06 | 1.31E-06 | 1.31E-05 | 7.19E-06 | |
| 1.17E-06 | 1.70E-06 | 1.28E-05 | 1.28E-05 | 7.04E-06 | |
| 1.14E-06 | 1.66E-06 | 1.25E-06 | 1.25E-06 | 6.89E-06 | |
| 1.12E-06 | 1.62E-06 | 1.23E-06 | 1.23E-05 | 6.74E-06 | |
| 1.09E-06 | 1.59E-06 | 1.20E-05 | 1.20E-05 | 6.59E-05 | |
| 1.07E-06 | 1.55E-05 | 1.17E-05 | 1.17E-05 | 6.44E-06 | |
| 1.04E-06 | 1.51E-05 | 1.14E-05 | 1.14E-05 | 6.28E-06 | |
| 1.02E-06 | 1.48E-05 | 1.11E-05 | 1.11E-05 | 6.13E-06 | |
| 9.91E-07 | 1.44E-05 | 1.09E-05 | 1.09E-05 | 5.97E-06 | |
| 9.65E-07 | 1.40E-06 | 1.06E-06 | 1.06E-06 | 5.82E-06 | |
| 9.40E-07 | 1.36E-06 | 1.03E-06 | 1.03E-06 | 5.67E-06 | |
| 1.39E-06 | 2.01E-05 | 1.52E-05 | 1.52E-05 | 8.36E-06 | |
| 1.42E-06 | 2.06E-06 | 1.55E-05 | 1.55E-05 | 8.54E-06 | |
| 1.45E-06 | 2.10E-06 | 1.59E-06 | 1.59E-05 | 8.73E-06 | |
| 1.48E-06 | 2.14E-05 | 1.62E-05 | 1.62E-05 | 6.91E-06 | |
| 1.51E-06 | 2.19E-05 | 1.65E-05 | 1.65E-06 | 9.08E-06 | |
| 1.53E-06 | 2.23E-05 | 1.68E-05 | 1.68E-06 | 9.24E-06 | |
| 1.56E-06 | 2.26E-06 | 1.71E-06 | 1.73E-06 | 9.40E-06 | |
| 1.58E-06 | 2.30E-05 | 1.74E-05 | 1.74E-05 | 9.55E-06 | |
| 1.61E-06 | 2.33E-06 | 1.76E-05 | 1.76E-05 | 9.69E-06 | |
| 1.63E-06 | 2.37E-06 | 1.79E-06 | 1.79E-06 | 9.82E-06 | |
| 1.65E-06 | 2.39E-06 | 1.81E-06 | 1.61E-05 | 9.95E-06 | |
| 1.67E-06 | 2.42E-05 | 1.82E-05 | 1.83E-06 | 1.01E-06 | |
| 1.69E-06 | 2.45E-05 | 1.85E-06 | 1.85E-05 | 1.02E-05 | |
| 1.70E-06 | 2.47E-05 | 1.87E-06 | 1.87E-05 | 1.03E-05 | |
| 1.72E-06 | 2.50E-05 | 1.89E-05 | 1.89E-05 | 1.04E-05 | |
| 1.73E-06 | 2.52E-06 | 1.90E-05 | 1.90E-06 | 1.05E-05 | |
| 1.75E-06 | 2.54E-06 | 1.92E-06 | 1.92E-06 | 1.06E-05 | |
| 1.77E-06 | 2.56E-05 | 1.94E-05 | 1.94E-05 | 1.07E-05 | |
| 1.78E-06 | 2.59E-05 | 1.95E-05 | 1.95E-06 | 1.07E-06 | |
| 1.80E-06 | 2.61E-06 | 1.97E-06 | 1.97E-06 | 1.08E-06 | |
| 1.82E-06 | 2.64E-05 | 1.99E-05 | 1.99E-05 | 1.10E-05 | |
| 1.84E-06 | 2.67E-05 | 2.01E-05 | 2.01E-05 | 1.11E-05 | |
| 1.85E-06 | 2.69E-06 | 2.03E-06 | 2.03E-06 | 1.12E-06 | |
| 1.86E-06 | 2.71E-05 | 2.04E-06 | 2.04E-05 | 1.12E-06 | |
| 1.87E-06 | 2.72E-05 | 2.05E-06 | 2.05E-05 | 1.13E-05 | |
| 1.88E-06 | 2.73E-06 | 2.06E-05 | 2.06E-06 | 1.13E-06 | |
| 1.89E-06 | 2.74E-05 | 2.07E-05 | 2.07E-05 | 1.14E-05 | |
| 1.89E-06 | 2.74E-05 | 2.07E-05 | 2.07E-05 | 1.14E-05 | |
| 1.88E-06 | 2.74E-06 | 2.07E-05 | 2.07E-05 | 1.14E-05 | |
| 1.88E-06 | 2.73E-05 | 2.06E-06 | 2.06E-05 | 1.13E-05 | |
| 1.88E-06 | 2.73E-05 | 2.06E-06 | 2.06E-05 | 1.13E-05 | |
| 1.88E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | |

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| 1.24E-06 | 1.79E-05 | 1.11E-06 | 1.11E-06 | 5.49E-06 |
| 1.25E-06 | 1.80E-05 | 1.12E-05 | 1.12E-05 | 5.54E-06 |
| 1.26E-06 | 1.82E-05 | 1.13E-06 | 1.13E-06 | 5.59E-05 |
| 1.26E-06 | 1.83E-06 | 1.14E-06 | 1.14E-06 | 5.62E-06 |
| 1.27E-06 | 1.84E-06 | 1.14E-06 | 1.14E-06 | 5.65E-06 |
| 1.27E-06 | 1.84E-05 | 1.14E-05 | 1.14E-05 | 5.66E-06 |
| 1.27E-06 | 1.84E-06 | 1.14E-06 | 1.14E-05 | 5.66E-06 |
| 1.27E-06 | 1.84E-05 | 1.14E-05 | 1.14E-06 | 5.66E-06 |
| 1.27E-06 | 1.84E-06 | 1.14E-06 | 1.14E-05 | 5.65E-06 |
| 1.27E-06 | 1.83E-06 | 1.14E-06 | 1.14E-06 | 5.63E-06 |
| 1.26E-06 | 1.83E-05 | 1.13E-06 | 1.13E-06 | 5.62E-06 |
| 1.26E-06 | 1.82E-06 | 3.13E-06 | 1.13E-06 | 5.60E-06 |
| 1.26E-06 | 1.82E-06 | 1.13E-06 | 1.13E-06 | 5.59E-06 |
| 1.26E-06 | 1.82E-06 | 1.13E-05 | 1.13E-05 | 5.58E-06 |
| 1.25E-06 | 1.81E-05 | 1.13E-05 | 1.13E-06 | 5.57E-06 |
| 1.25E-06 | 1.81E-05 | 1.12E-05 | 1.12E-06 | 5.56E-06 |
| 1.25E-06 | 1.80E-05 | 1.12E-05 | 1.12E-06 | 5.55E-06 |
| 1.26E-06 | 1.83E-06 | 1.14E-05 | 1.14E-06 | 5.62E-06 |
| 1.28E-06 | 1.86E-06 | 1.15E-06 | 1.15E-06 | 5.71E-06 |
| 1.30E-06 | 1.88E-06 | 1.17E-06 | 1.17E-06 | 5.78E-05 |
| 1.31E-06 | 1.90E-06 | 1.18E-05 | 1.18E-06 | 5.84E-06 |
| 1.32E-06 | 1.92E-05 | 1.19E-06 | 1.19E-05 | 5.89E-06 |
| 1.33E-06 | 1.92E-05 | 1.19E-06 | 1.19E-05 | 5.91E-06 |
| 1.33E-06 | 1.92E-05 | 1.19E-06 | 1.19E-06 | 5.91E-06 |
| 1.32E-06 | 1.91E-05 | 1.19E-05 | 1.19E-06 | 5.88E-06 |
| 1.31E-06 | 1.89E-06 | 1.18E-05 | 1.18E-05 | 5.82E-06 |
| 1.29E-06 | 1.86E-06 | 1.16E-06 | 1.16E-06 | 5.73E-05 |
| 1.26E-06 | 1.82E-06 | 1.13E-06 | 1.13E-06 | 5.61E-06 |
| 1.23E-06 | 1.78E-05 | 1.10E-05 | 1.10E-06 | 5.47E-06 |
| 1.19E-06 | 1.72E-05 | 1.07E-05 | 1.07E-05 | 5.29E-06 |
| 1.14E-06 | 1.65E-06 | 1.03E-05 | 1.03E-05 | 5.09E-06 |
| 1.09E-06 | 1.58E-06 | 9.82E-06 | 9.82E-06 | 4.86E-06 |
| 1.04E-06 | 1.50E-05 | 9.33E-06 | 9.33E-06 | 4.62E-06 |
| 9.81E-07 | 1.42E-06 | 6.81E-06 | 8.81E-06 | 4.36E-06 |
| 9.22E-07 | 1.33E-05 | 6.28E-06 | 8.28E-06 | 4.10E-06 |
| 8.64E-07 | 1.25E-06 | 7.76E-06 | 7.76E-06 | 3.84E-06 |
| 6.08E-07 | 1.17E-05 | 7.26E-06 | 7.26E-06 | 3.59E-06 |
| 7.38E-07 | 1.09E-06 | 6.79E-06 | 6.79E-06 | 3.38E-06 |
| 7.09E-07 | 1.03E-05 | 6.37E-06 | 6.37E-06 | 3.15E-06 |
| 6.68E-07 | 9.66E-06 | 6.00E-06 | 6.00E-06 | 2.97E-06 |
| 6.32E-07 | 9.15E-06 | 5.68E-06 | 5.68E-06 | 2.81E-06 |
| 6.02E-07 | 8.71E-06 | 5.41E-06 | 5.41E-06 | 2.68E-06 |
| 5.77E-07 | 6.35E-06 | 5.19E-06 | 5.19E-06 | 2.57E-06 |
| 5.56E-07 | 8.05E-06 | 5.00E-06 | 5.00E-06 | 2.47E-06 |
| 5.18E-07 | 7.78E-06 | 4.83E-06 | 4.83E-06 | 2.39E-06 |
| 5.22E-07 | 7.55E-06 | 4.69E-06 | 4.69E-06 | 2.32E-06 |
| 5.08E-07 | 7.34E-06 | 4.56E-06 | 4.38E-06 | 2.26E-06 |
| 4.94E-07 | 7.14E-06 | 4.44E-06 | 4.44E-06 | 2.20E-06 |
| 4.61E-07 | 6.96E-06 | 4.32E-05 | 4.32E-06 | 2.14E-06 |
| 4.70E-07 | 6.79E-06 | 4.22E-06 | 4.22E-06 | 2.09E-06 |
| 4.59E-07 | 6.64E-06 | 4.13E-06 | 4.13E-06 | 2.04E-06 |
| 9.65E-07 | 1.40E-05 | 8.67E-06 | 8.67E-06 | 4.29E-06 |
| 9.54E-07 | 1.38E-05 | 8

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2571 | 256176.9 | 4085829.1 | 0.000014952 | 2.16E-04 | 1.59E-04 | 1.59E-04 | 8.89E-05 | 2.27E-06 | 3.29E-05 | 2.49E-05 | 2.49E-05 | 1.37E-06 | 1.23E-06 | 1.78E-05 | 1.11E-05 | 1.11E-05 | 5.48E-05 |
| 2572 | 258201.18 | 4085828.03 | 0.000014454 | 2.09E-04 | 1.54E-04 | 1.54E-04 | 8.59E-06 | 2.19E-06 | 3.18E-05 | 2.41E-05 | 2.41E-05 | 1.32E-06 | 1.19E-06 | 1.72E-05 | 1.07E-05 | 1.07E-05 | 5.30E-05 |
| 2573 | 258225.46 | 4083826.95 | 0.000013954 | 2.02E-04 | 1.49E-04 | 1.49E-04 | 8.29E-05 | 2.12E-06 | 3.07E-05 | 2.32E-05 | 2.32E-05 | 1.28E-06 | 1.15E-06 | 1.66E-05 | 1.03E-06 | 1.03E-05 | 5.12E-06 |
| 2574 | 258249.74 | 4085825.88 | 0.000013456 | 1.95E-04 | 1.43E-04 | 1.43E-04 | 8.00E-05 | 2.04E-06 | 2.97E-05 | 2.24E-05 | 2.24E-05 | 1.23E-05 | 1.11E-05 | 1.60E-05 | 9.97E-06 | 9.97E-06 | 4.93E-05 |
| 2575 | 258274.02 | 4085824.8 | 0.000012967 | 1.88E-04 | 1.38E-04 | 1.38E-04 | 7.71E-06 | 1.97E-06 | 2.86E-06 | 2.16E-06 | 2.16E-06 | 1.19E-05 | 1.07E-06 | 1.55E-05 | 9.60E-06 | 9.60E-06 | 4.75E-06 |
| 2576 | 258298.31 | 4085823.73 | 0.000012487 | 1.81E-04 | 1.33E-04 | 1.33E-04 | 7.42E-05 | 1.90E-06 | 2.75E-05 | 2.08E-05 | 2.08E-06 | 1.14E-05 | 1.03E-06 | 1.49E-05 | 9.25E-06 | 9.25E-06 | 4.58E-06 |
| 2577 | 258322.59 | 4085822.65 | 0.000012016 | 1.74E-04 | 1.28E-04 | 1.28E-04 | 7.14E-06 | 1.82E-06 | 2.65E-05 | 2.00E-05 | 2.00E-05 | 1.10E-05 | 9.90E-07 | 1.43E-06 | 8.90E-06 | 8.90E-06 | 4.40E-05 |
| 2578 | 258346.87 | 4085821.38 | 0.000012555 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.87E-05 | 1.75E-05 | 2.55E-05 | 1.92E-05 | 1.92E-05 | 1.06E-05 | 9.52E-07 | 1.38E-05 | 8.66E-06 | 8.56E-06 | 4.24E-06 |
| 2579 | 258371.25 | 4085820.5 | 0.000011106 | 1.61E-04 | 1.18E-04 | 1.18E-04 | 6.60E-05 | 1.69E-06 | 2.45E-05 | 1.85E-06 | 1.85E-05 | 1.02E-06 | 9.25E-07 | 1.32E-05 | 8.23E-06 | 8.23E-06 | 4.07E-06 |
| 2580 | 258395.43 | 4085819.42 | 0.000010672 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.34E-05 | 1.62E-05 | 2.25E-05 | 1.78E-06 | 1.78E-05 | 9.77E-06 | 8.80E-07 | 1.27E-05 | 7.90E-06 | 7.90E-06 | 3.91E-05 |
| 2561 | 257580.57 | 4086046.53 | 0.000016362 | 2.37E-04 | 1.74E-04 | 1.74E-04 | 9.72E-05 | 2.48E-06 | 3.61E-05 | 2.72E-05 | 2.72E-05 | 1.50E-05 | 1.35E-06 | 1.95E-05 | 1.21E-05 | 1.21E-05 | 6.00E-06 |
| 2582 | 257538.17 | 4086038.35 | 0.000016686 | 2.41E-04 | 1.78E-04 | 1.78E-04 | 9.92E-05 | 2.53E-06 | 3.68E-05 | 2.78E-05 | 2.78E-05 | 1.53E-05 | 1.38E-06 | 1.99E-05 | 1.24E-05 | 1.24E-05 | 8.12E-06 |
| 2583 | 257525.76 | 4086030.16 | 0.00001702 | 2.46E-04 | 1.81E-04 | 1.81E-04 | 1.01E-04 | 2.58E-06 | 3.75E-05 | 2.83E-05 | 2.83E-05 | 1.56E-05 | 1.40E-06 | 2.03E-05 | 1.26E-05 | 1.26E-05 | 6.24E-05 |
| 2584 | 257513.35 | 4086021.98 | 0.000017301 | 2.50E-04 | 1.84E-04 | 1.84E-04 | 1.03E-04 | 2.63E-06 | 3.81E-05 | 2.88E-06 | 2.88E-05 | 1.58E-05 | 1.43E-06 | 2.06E-05 | 1.28E-05 | 1.28E-05 | 6.34E-06 |
| 2585 | 257490.94 | 4086013.79 | 0.000017563 | 2.54E-04 | 1.87E-04 | 1.87E-04 | 1.04E-04 | 2.67E-05 | 3.87E-05 | 2.92E-05 | 2.92E-05 | 1.61E-05 | 1.45E-06 | 2.09E-05 | 1.30E-05 | 1.30E-05 | 6.44E-05 |
| 2586 | 257468.53 | 4086005.6 | 0.000017811 | 2.58E-04 | 1.90E-04 | 1.90E-04 | 1.06E-04 | 2.70E-05 | 3.92E-06 | 2.96E-06 | 2.96E-05 | 1.63E-05 | 1.47E-06 | 2.12E-05 | 1.32E-05 | 1.32E-05 | 6.53E-06 |
| 2587 | 257446.13 | 4085997.42 | 0.000018044 | 2.61E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.74E-06 | 3.98E-06 | 3.00E-05 | 3.00E-05 | 1.65E-05 | 1.49E-06 | 2.25E-05 | 1.34E-05 | 1.34E-05 | 6.61E-06 |
| 2588 | 257425.72 | 4085989.25 | 0.000018264 | 2.64E-04 | 1.95E-04 | 1.95E-04 | 1.09E-04 | 2.77E-06 | 4.02E-05 | 3.04E-05 | 3.04E-06 | 1.67E-06 | 1.51E-05 | 2.18E-06 | 1.35E-05 | 1.35E-06 | 8.69E-06 |
| 2589 | 257401.31 | 4085981.05 | 0.000018471 | 2.67E-04 | 1.97E-04 | 1.97E-04 | 1.10E-04 | 2.80E-06 | 4.07E-05 | 3.07E-06 | 3.07E-06 | 1.69E-05 | 1.52E-06 | 2.20E-05 | 1.37E-05 | 1.37E-06 | 6.77E-06 |
| 2590 | 257378.9 | 4085972.68 | 0.000018673 | 2.70E-04 | 1.99E-04 | 1.99E-04 | 1.11E-04 | 2.83E-06 | 4.11E-06 | 3.11E-05 | 3.11E-05 | 1.71E-05 | 1.54E-06 | 2.23E-05 | 1.38E-05 | 1.38E-05 | 6.85E-05 |
| 2591 | 257356.49 | 4085964.68 | 0.000018874 | 2.73E-04 | 2.01E-04 | 2.01E-04 | 1.12E-04 | 2.86E-06 | 4.16E-05 | 3.14E-05 | 3.14E-05 | 1.73E-05 | 1.56E-05 | 2.25E-05 | 1.40E-05 | 1.40E-05 | 6.92E-06 |
| 2592 | 257334.09 | 4085956.49 | 0.000019079 | 2.76E-04 | 2.03E-04 | 2.03E-04 | 1.13E-04 | 2.90E-06 | 4.20E-05 | 3.18E-05 | 3.18E-05 | 1.75E-05 | 1.57E-05 | 2.27E-05 | 1.41E-05 | 1.41E-05 | 8.99E-06 |
| 2593 | 257311.68 | 4085948.3 | 0.000019286 | 2.79E-04 | 2.06E-04 | 2.06E-04 | 1.15E-04 | 2.93E-06 | 4.25E-05 | 3.21E-05 | 3.21E-05 | 1.76E-05 | 1.59E-06 | 2.30E-05 | 1.43E-06 | 1.43E-05 | 7.07E-05 |
| 2594 | 257289.27 | 4085940.12 | 0.000019493 | 2.82E-04 | 2.08E-04 | 2.08E-04 | 1.16E-04 | 2.96E-06 | 4.30E-05 | 3.24E-06 | 3.24E-05 | 1.78E-05 | 1.61E-06 | 2.32E-05 | 1.44E-05 | 1.44E-05 | 7.15E-06 |
| 2595 | 257266.86 | 4085931.93 | 0.00001969 | 2.85E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 2.99E-06 | 4.34E-05 | 3.28E-05 | 3.28E-05 | 1.80E-05 | 1.62E-06 | 2.35E-05 | 1.46E-05 | 1.46E-05 | 7.22E-06 |
| 2596 | 257244.45 | 4085923.75 | 0.000019864 | 2.87E-04 | 2.12E-04 | 2.12E-04 | 1.18E-04 | 3.01E-06 | 4.38E-05 | 3.31E-05 | 3.31E-05 | 1.82E-05 | 1.64E-06 | 2.37E-05 | 1.47E-05 | 1.47E-05 | 7.28E-06 |
| 2597 | 257222.05 | 4085925.56 | 0.000020001 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.04E-06 | 4.41E-05 | 3.33E-05 | 3.33E-05 | 1.83E-05 | 1.65E-05 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.33E-06 |
| 2598 | 257199.64 | 4085907.37 | 0.000020089 | 2.91E-04 | 2.14E-04 | 2.14E-04 | 1.19E-04 | 3.05E-06 | 4.43E-05 | 3.34E-05 | 3.34E-05 | 1.84E-05 | 1.66E-06 | 2.40E-05 | 1.49E-05 | 1.49E-05 | 7.36E-05 |
| 2599 | 257177.23 | 4085899.19 | 0.000020124 | 2.91E-04 | 2.15E-04 | 2.15E-04 | 1.20E-04 | 3.05E-06 | 4.43E-05 | 3.35E-06 | 3.35E-05 | 1.84E-05 | 1.66E-06 | 2.40E-05 | 1.49E-05 | 1.49E-05 | 7.38E-06 |
| 2600 | 257154.82 | 4085891 | 0.000020106 | 2.91E-04 | 2.14E-04 | 2.14E-04 | 1.19E-04 | 3.05E-06 | 4.43E-05 | 3.35E-05 | 3.35E-05 | 1.84E-06 | 1.66E-05 | 2.40E-05 | 1.49E-05 | 1.49E-05 | 7.37E-05 |
| 2601 | 257132.41 | 4085882.82 | 0.000020046 | 2.90E-04 | 2.14E-04 | 2.14E-04 | 1.19E-04 | 3.04E-05 | 4.42E-06 | 3.34E-05 | 3.34E-05 | 1.83E-05 | 1.65E-06 | 2.39E-06 | 1.48E-05 | 1.48E-05 | 7.35E-06 |
| 2602 | 257110.01 | 4085874.63 | 0.000019956 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.03E-06 | 4.40E-05 | 3.32E-05 | 3.32E-05 | 1.83E-05 | 1.64E-06 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.32E-06 |
| 2603 | 257087.6 | 4085866.45 | 0.00001985 | 2.87E-04 | 2.12E-04 | 2.12E-04 | 1.18E-04 | 3.01E-06 | 4.37E-05 | 3.30E-05 | 3.30E-05 | 1.82E-05 | 1.64E-05 | 2.37E-05 | 1.47E-05 | 1.47E-05 | 7.28E-06 |
| 2604 | 257065.19 | 4085858.26 | 0.000019735 | 2.65E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 3.00E-06 | 4.35E-05 | 3.28E-05 | 3.28E-05 | 1.81E-06 | 1.63E-05 | 2.35E-05 | 1.46E-05 | 1.46E-05 | 7.23E-06 |
| 2605 | 257042.78 | 4085850.07 | 0.00001962 | 2.84E-04 | 2.09E-04 | 2.09E-04 | 1.17E-04 | 2.98E-05 | 4.32E-06 | 3.27E-05 | 3.27E-05 | 1.80E-06 | 1.62E-06 | 2.34E-05 | 1.45E-05 | 1.45E-05 | 7.19E-06 |
| 2606 | 257020.37 | 4085841.89 | 0.000019501 | 2.82E-04 | 2.08E-04 | 2.08E-04 | 1.16E-04 | 2.96E-06 | 4.30E-05 | 3.25E-05 | 3.25E-05 | 1.76E-05 | 1.61E-06 | 2.33E-05 | 1.44E-06 | 1.44E-05 | 7.15E-06 |
| 2607 | 256997.97 | 4085833.7 | 0.00001938 | 2.80E-04 | 2.07E-04 | 2.07E-04 | 1.15E-04 | 2.94E-06 | 4.27E-05 | 3.23E-05 | 3.23E-05 | 1.77E-05 | 1.60E-06 | 2.31E-05 | 1.44E-05 | 1.44E-05 | 7.10E-05 |
| 2608 | 256975.56 | 4085825.52 | 0.000019249 | 2.78E-04 | 2.05E-04 | 2.05E-04 | 1.14E-04 | 2.92E-05 | 4.24E-05 | 3.20E-05 | 3.20E-05 | 1.76E-05 | 1.59E-06 | 2.29E-05 | 1.43E-05 | 1.43E-05 | 7.06E-05 |
| 2609 | 256943.17 | 4085795.68 | 0.000019389 | 2.80E-04 | 2.07E-04 | 2.07E-04 | 1.25E-04 | 2.94E-05 | 4.27E-05 | 3.23E-05 | 3.23E-05 | 1.77E-05 | 1.60E-06 | 2.31E-05 | 1.44E-05 | 1.44E-05 | 7.11E-06 |
| 2610 | 256933.19 | 4085773.99 | 0.000019643 | 2.84E-04 | 2.09E-04 | 2.09E-04 | 1.17E-04 | 2.98E-06 | 4.33E-05 | 3.27E-05 | 3.27E-05 | 1.80E-05 | 1.62E-05 | 2.34E-05 | 1.45E-05 | 1.45E-05 | 7.20E-06 |
| 2611 | 256923.22 | 4085752.32 | 0.000019856 | 2.87E-04 | 2.12E-04 | 2.12E-04 | 1.18E-04 | 3.01E-06 | 4.36E-05 | 3.31E-05 | 3.31E-05 | 1.82E-05 | 1.64E-06 | 2.37E-05 | 1.47E-05 | 1.47E-05 | 7.28E-05 |
| 2612 | 256913.24 | 4085730.65 | 0.000019966 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.03E-06 | 4.40E-05 | 3.32E-05 | 3.32E-05 | 1.83E-05 | 1.65E-06 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.32E-06 |
| 2613 | 256903.26 | 4085708.99 | 0.000019985 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.03E-06 | 4.40E-05 | 3.33E-05 | 3.33E-05 | 1.83E-05 | 1.65E-05 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.33E-06 |
| 2614 | 256893.28 | 4085687.32 | 0.000019901 | 2.88E-04 | 2.12E-04 | 2.12E-04 | 1.18E-04 | 3.02E-06 | 4.38E-05 | 3.31E-06 | 3.31E-05 | 1.82E-05 | 1.64E-06 | 2.37E-05 | 1.47E-05 | 1.47E-05 | 7.30E-06 |
| 2615 | 256883.3 | 4085665.65 | 0.0000197 | 2.85E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 2.99E-06 | 4.34E-05 | 3.28E-05 | 3.28E-05 | 1.80E-05 | 1.62E-06 | 2.35E-05 | 1.46E-05 | 1.46E-05 | 7.22E-06 |
| 2616 | 256873.32 | 4085643.98 | 0.00001938 | 2.80E-04 | 2.07E-04 | 2.07E-04 | 1.15E-04 | 2.94E-06 | 4.27E-05 | 3.23E-05 | 3.23E-05 | 1.77E-05 | 1.60E-05 | 2.31E-05 | 1.44E-05 | 1.44E-05 | 7.10E-05 |
| 2617 | 256863.35 | 4085622.31 | 0.000018938 | 2.74E-04 | 2.02E-04 | 2.02E-04 | 1.13E-04 | 2.87E-06 | 4.17E-05 | 3.15E-05 | 3.25E-05 | 1.73E-05 | 1.56E-05 | 2.26E-05 | 1.40E-05 | 1.40E-05 | 6.94E-06 |
| 2618 | 256853.37 | 4085600.64 | 0.000018378 | 2.66E-04 | 1.96E-04 | 1.96E-04 | 1.09E-04 | 2.79E-06 | 4.05E-05 | 3.06E-05 | 3.06E-05 | 1.68E-05 | 1.51E-05 | 2.19E-05 | 1.36E-05 | 1.36E-05 | 8.74E-05 |
| 2619 | 256843.39 | 4085578.97 | 0.000017704 | 2.56E-04 | 1.89E-04 | 1.89E-04 | 1.05E-04 | 2.69E-05 | 3.90E-05 | 2.95E-06 | 2.95E-06 | 1.62E-05 | 1.46E-06 | 2.11E-05 | 1.31E-05 | 1.31E-05 | 8.49E-06 |
| 2620 | 256833.41 | 4085557.3 | 0.000016932 | 2.45E-04 | 1.81E-04 | 1.81E-04 | 1.01E-04 | 2.57E-06 | 3.73E-05 | 2.82E-05 | 2.82E-05 | 1.55E-05 | 1.40E-06 | 2.02E-05 | 1.25E-05 | 1.25E-05 | 6.21E-06 |
| 2621 | 256823.43 | 4085535.63 | 0.000016077 | 2.33E-04 | 1.71E-04 | 1.71E-04 | 9.56E-05 | 2.44E-06 | 3.54E-05 | 2.68E-05 | 2.68E-05 | 1.47E-05 | 1.33E-06 | 1.92E-05 | 1.19E-06 | 1.19E-05 | 5.89E-06 |
| 2622 | 256813.45 | 4085513.96 | 0.000015161 | 2.19E-04 | 1.62E-04 | 1.62E-04 | 9.01E-05 | 2.30E-06 | 3.34E-05 | 2.52E-05 | 2.52E-05 | 1.39E-05 | 1.25E-06 | 1.81E-05 | 1.12E-05 | 1.12E-05 | 5.56E-05 |
| 2623 | 256803.47 | 4085492.29 | 0.000014215 | 2.06E-04 | 1.52E-04 | 1.52E-04 | 8.45E-05 | 2.16E-06 | 3.13E-05 | 2.37E-05 | 2.37E-05 | 1.30E-05 | 1.17E-06 | 1.69E-05 | 1.05E-05 | 1.05E-05 | 5.21E-06 |
| 2624 | 256793.5 | 4085470.62 | 0.000013266 | 1.92E-04 | 1.41E-04 | 1.41E-04 | 7.89E-05 | 2.01E-06 | 2.92E-05 | 2.21E-05 | 2.21E-05 | 1.21E-05 | 1.09E-06 | 1.58E-05 | 9.83E-05 | 9.81E-06 | 4.65E-06 |
| 2625 | 256783.52 | 4085448.95 | 0.000012552 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.87E-06 | 2.72E-05 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.15E-06 | 9.15E-06 | 4.53E-06 |
| 2626 | 256773.54 | 4085427.29 | 0.000011495 | 1.66E-04 | 1.23E-04 | 1.25E-04 | 6.83E-05 | 1.74E-05 | 2.53E-05 | 1.91E-05 | 1.91E-05 | 1.05E-05 | 9.48E-07 | 1.37E-05 | 8.51E-06 | 8.51E-06 | 4.21E-06 |
| 2627 | 256763.56 | 4085405.62 | 0.000010719 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 8.37E-06 | 1.63E-06 | 2.36E-06 | 1.78E-05 | 1.78E-05 | 9.81E-06 | 8.84E-07 | 1.28E-05 | 7.94E-05 | 7.94E-05 | 3.93E-06 |
| 2628 | 256753.58 | 4085383.95 | 0.000010036 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.96E-05 | 1.52E-06 | 2.21E-05 | 1.67E-05 | 1.67E-05 | 9.18E-05 | 8.27E-07 | 1.20E-05 | 7.43E-06 | 7.43E-06 | 3.68E-05 |
| 2629 | 256743.6 | 4085362.28 | 9.4504E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.62E-05 | 1.43E-06 | 2.08E-05 | 1.57E-05 | 1.57E-05 | 8.65E-05 | 7.79E-07 | 1.13E-05 | 7.00E-05 | 7.00E-06 | 3.46E-05 |
| 2630 | 256733.63 | 4085340.61 | 8.9566E-06 | 1.30E-04 | 9.55E-05 | 9.55E-05 | 5.32E-05 | 1.38E-05 | 1.97E-05 | 1.49E-05 | 1.49E-05 | 8.20E-06 | 7.38E-07 | 1.07E-05 | 6.63E-06 | 6.63E-06 | 3.28E-06 |
| 2631 | 256723.65 | 4085318.94 | 8.5386E-06 | 1.24E-04 | 9.10E-05 | 9.10E-05 | 5.07E-05 | 1.30E-05 | 1.88E-05 | 1.42E-05 | 1.42E-05 | 7.81E-06 | 7.04E-07 | 1.02E-05 | 8.32E-06 | 6.32E-06 | 3.13E-06 |
| 2632 | 256713.67 | 4085297.27 | 8.1881E-06 | 1.18E-04 | 8.73E-05 | 8.73E-05 | 4.87E-05 | 1.24E-05 | 1.80E-05 | 1.36E-05 | 1.36E-05 | 7.49E-06 | 8.75E-07 | 9.76E-06 | 6.06E-05 | 6.06E-06 | 3.00E-06 |
| 2633 | 256703.69 | 4085275.6 | 7.8829E-06 | 1.14E-04 | 8.40E-05 | 8.40E-05 | 4.69E-05 | 1.20E-06 | 1.74E-05 | 1.31E-05 | 1.31E-05 | 7.21E-06 | 8.50E-07 | 9.40E-06 | 5.84E-06 | 5.84E-06 | 2.89E-05 |
| 2634 | 256693.71 | 4085253.93 | 7.6144E-06 | 1.10E-04 | 8.12E-05 | 8.12E-05 | 4.53E-06 | 1.16E-06 | 1.68E-05 | 1.27E-05 | 1.27E-05 | 8.97E-06 | 8.28E-07 | 9.08E-06 | 5.64E-06 | 5.64E-06 | 2.79E-06 |
| 2635 | 256683.73 | 4085232.26 | 7.3767E-06 | 1.07E-04 | 7.86E-05 | 7.86E-05 | 4.38E-05 | 1.12E-06 | 1.63E-05 | 1.23E-06 | 1.23E-05 | 8.75E-06 | 8.08E-07 | 8.79E-06 | 5.46E-06 | 5.46E-06 | 2.70E-06 |
| 2636 | 256673.76 | 4085210.59 | 7.1698E-05 | 1.04E-04 | 7.64E-05 | 7.64E-05 | 4.26E-05 | 1.09E-06 | 1.58E-05 | 1.19E-05 | 1.19E-05 | 6.56E-05 | 5.91E-07 | 8.55E-06 | 5.31E-06 | 5.31E-05 | 2.63E-06 |
| 2637 | 257602.98 | 4086054.72 | 0.000016014 | 2.32E-04 | 1.71E-04 | 1.71E-04 | 9.53E-05 | 2.43E-05 | 3.53E-05 | 2.67E-05 | 2.67E-05 | 1.47E-05 | 1.32E-05 | 1.91E-05 | 1.19E-05 | 1.19E-05 | 5.88E-06 |
| 2638 | 257627.26 | 4086053.64 | 0.00001594 | 2.31E-04 | 1.70E-04 | 1.70E-04 | 9.47E-05 | 2.42E-05 | 3.51E-05 | 2.65E-05 | 2.65E-05 | 1.46E-05 | 1.31E-05 | 1.90E-05 | 1.18E-05 | 1.18E-05 | 5.84E-06 |
| 2639 | 257651.55 | 4086052.57 | 0.000015819 | 2.29E-04 | 1.69E-04 | 1.69E-04 | 9.40E-05 | 2.40E-06 | 3.49E-05 | 2.63E-06 | 2.63E-05 | 1.45E-05 | 1.30E-05 | 1.89E-05 | 1.17E-06 | 1.17E-06 | 5.80E-05 |
| 2640 | 257675.83 | 4086051.49 | 0.000015674 | 2.27E-04 | 1.67E-04 | 1.67E-04 | 9.32E-05 | 2.38E-05 | 3.45E-05 | 2.61E-06 | 2.61E-06 | 1.43E-06 | 1.29E-06 | 1.87E-05 | 1.16E-05 | 1.16E-05 | 5.75E-06 |
| 2841 | 257700.11 | 4086050.42 | 0.000015499 | 2.24E-04 | 1.65E-04 | 1.65E-04 | 9.21E-05 | 2.35E-06 | 3.42E-05 | 2.58E-05 | 2.58E-05 | 1.42E-05 | 1.28E-06 | 1.85E-05 | 1.15E-05 | 1.15E-05 | 5.68E-06 |
| 2842 | 257724.39 | 4086049.34 | 0.000015296 | 2.21E-04 | 1.63E-04 | 1.63E-04 | 9.09E-05 | 2.32E-06 | 3.37E-05 | 2.55E-05 | 2.55E-05 | 1.40E-05 | 1.26E-05 | 1.82E-05 | 1.13E-05 | 1.13E-05 | 5.61E-06 |
| 2643 | 257748.67 | 4086048.27 | 0.000015061 | 2.18E-04 | 1.61E-04 | 1.61E-04 | 8.95E-05 | 2.29E-05 | 3.32E-05 | 2.51E-05 | 2.51E-05 | 1.38E-05 | 1.24E-05 | 1.80E-05 | 1.12E-05 | 1.12E-05 | 5.52E-06 |
| 2644 | 257772.96 | 4086047.19 | 0.000014799 | 2.14E-04 | 1.58E-04 | 1.58E-04 | 8.80E-05 | 2.25E-05 | 3.26E-05 | 2.46E-05 | 2.46E-05 | 1.35E-05 | 1.22E-06 | 1.76E-05 | 1.10E-05 | 1.10E-05 | 5.42E-06 |
| 2645 | 257797.24 | 4086046.11 | 0.00001451 | 2.10E-04 | 1.55E-04 | 1.55E-04 | 8.62E-05 | 2.20E-06 | 3.20E-05 | 2.42E-06 | 2.42E-05 | 1.33E-05 | 1.20E-05 | 1.73E-05 | 1.07E-05 | 1.07E-05 | 5.32E-06 |
| 2646 | 257821.52 | 4086045.04 | 0.000014202 | 2.05E-04 | 1.51E-04 | 1.51E-04 | 8.44E-05 | 2.16E-06 | 3.13E-05 | 2.36E-05 | 2.36E-05 | 1.30E-05 | 1.17E-06 | 1.69E-05 | 1.05E-05 | 1.05E-05 | 5.21E-06 |
| 2647 | 257845.8 | 4086043.96 | 0.000013885 | 2.01E-04 | 1.48E-04 | 1.48E-04 | 8.25E-06 | 2.11E-06 | 3.06E-05 | 2.31E-05 | 2.31E-05 | 1.27E-05 | 1.14E-06 | 1.66E-05 | 1.03E-05 | 1.03E-05 | 5.09E-06 |
| 2648 | 257870.08 | 4086042.89 | 0.000013567 | 1.96E-04 | 1.45E-04 | 1.45E-04 | 8.06E-05 | 2.06E-06 | 2.99E-05 | 2.26E-06 | 2.26E-05 | 1.24E-05 | 1.12E-06 | 1.62E-05 | 1.00E-05 | 1.00E-05 | 4.97E-06 |
| 2649 | 257894.36 | 4086041.81 | 0.00001326 | 1.92E-04 | 1.41E-04 | 1.41E-04 | 7.88E-05 | 2.01E-06 | 2.92E-05 | 2.21E-05 | 2.21E-05 | 1.21E-05 | 1.09E-05 | 1.58E-05 | 9.82E-06 | 9.83E-05 | 4.86E-06 |
| 2650 | 257918.65 | 4086040.74 | 0.000012969 | 1.88E-04 | 1.38E-04 | 1.38E-04 | 7.71E-05 | 1.97E-06 | 2.86E-05 | 2.16E-05 | 2.16E-05 | 1.19E-05 | 1.07E-05 | 1.55E-05 | 9.60E-06 | 9.60E-06 | 4.75E-06 |
| 2651 | 257942.93 | 4086039.66 | 0.0000127 | 1.84E-04 | 1.35E-04 | 1.35E-04 | 7.55E-05 | 1.93E-05 | 2.80E-05 | 2.11E-05 | 2.11E-05 | 1.16E-05 | 1.05E-06 | 1.51E-05 | 9.41E-06 | 9.41E-06 | 4.66E-05 |
| 2652 | 257967.21 | 4086038.59 | 0.000012454 | 1.80E-04 | 1.33E-04 | 1.33E-04 | 7.40E-05 | 1.89E-05 | 2.74E-05 | 2.07E-05 | 2.07E-05 | 1.14E-05 | 1.03E-05 | 1.48E-05 | 9.22E-06 | 9.22E-06 | 4.52E-06 |
| 2653 | 257991.49 | 4086037.51 | 0.000012229 | 1.77E-04 | 1.30E-04 | 1.30E-04 | 7.27E-05 | 1.86E-06 | 2.69E-06 | 2.04E-05 | 2.04E-05 | 1.12E-05 | 1.01E-05 | 1.46E-06 | 9.06E-06 | 9.06E-06 | 4.48E-06 |
| 2654 | 258025.77 | 4086038.44 | 0.000012014 | 1.74E-04 | 1.28E-04 | 1.28E-04 | 7.14E-05 | 1.82E-06 | 2.65E-05 | 2.00E-05 | 2.00E-06 | 1.10E-06 | 9.90E-07 | 1.43E-05 | 8.90E-06 | 8.90E-06 | 4.40E-06 |
| 2655 | 258040.06 | 4086035.36 | 0.000011801 | 1.71E-04 | 1.26E-04 | 1.28E-04 | 7.01E-05 | 1.79E-06 | 2.60E-05 | 1.96E-06 | 1.96E-06 | 1.08E-05 | 9.73E-07 | 1.41E-05 | 8.74E-06 | 8.74E-06 | 4.33E-06 |
| 2656 | 258064.34 | 4086034.28 | 0.000011586 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.89E-06 | 1.76E-06 | 2.55E-06 | 1.93E-05 | 1.93E-05 | 1.06E-05 | 9.55E-07 | 1.38E-05 | 8.58E-05 | 8.58E-05 | 4.25E-06 |
| 2657 | 258088.62 | 4086033.23 | 0.000011356 | 1.64E-04 | 1.21E-04 | 1.21E-04 | 6.75E-05 | 1.72E-05 | 2.50E-05 | 1.89E-05 | 1.89E-05 | 1.04E-05 | 9.36E-07 | 1.35E-05 | 8.41E-05 | 8.41E-06 | 4.16E-06 |
| 2658 | 256112.9 | 4086032.13 | 0.000011112 | 1.61E-04 | 1.18E-04 | 1.18E-04 | 6.60E-05 | 1.69E-06 | 2.45E-05 | 1.85E-06 | 1.85E-05 | 1.02E-05 | 9.16E-07 | 1.32E-05 | 8.25E-06 | 8.25E-06 | 4.07E-06 |
| 2659 | 258137.18 | 4086031.06 | 0.000010852 | 1.57E-04 | 1.16E-04 | 1.16E-04 | 6.45E-05 | 1.65E-06 | 2.39E-06 | 1.81E-05 | 1.81E-05 | 9.93E-06 | 8.95E-07 | 1.29E-05 | 8.04E-06 | 8.04E-06 | 3.98E-06 |
| 2660 | 256161.46 | 4086029.98 | 0.000010577 | 1.53E-04 | 1.13E-04 | 1.13E-04 | 6.29E-05 | 1.61E-06 | 2.33E-05 | 1.76E-06 | 1.76E-05 | 9.68E-06 | 8.72E-07 | 1.26E-05 | 7.83E-06 | 7.83E-06 | 3.88E-06 |
| 2661 | 258185.75 | 4086028.91 | 0.000010295 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.12E-05 | 1.56E-06 | 2.27E-05 | 1.71E-05 | 1.71E-05 | 9.42E-06 | 8.49E-07 | 1.23E-06 | 7.62E-06 | 7.62E-06 | 3.77E-06 |
| 2662 | 258210.03 | 4086027.83 | 0.00001001 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.95E-06 | 1.52E-06 | 2.21E-05 | 1.67E-05 | 1.67E-06 | 9.16E-06 | 8.25E-07 | 1.19E-05 | 7.41E-06 | 7.41E-06 | 3.67E-06 |
| 2663 | 258234.31 | 4086028.76 | 0.000009725 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.78E-05 | 1.48E-06 | 2.14E-05 | 1.62E-05 | 1.62E-05 | 8.90E-06 | 8.02E-07 | 1.16E-05 | 7.20E-06 | 7.20E-05 | 3.56E-06 |
| 2664 | 258258.59 | 4086025.68 | 9.4443E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.61E-05 | 1.43E-06 | 2.08E-05 | 1.57E-06 | 1.57E-05 | 8.64E-06 | 7.78E-07 | 1.13E-05 | 6.99E-06 | 6.99E-06 | 3.46E-06 |
| 2665 | 258282.87 | 4086024.61 | 9.1677E-05 | 1.33E-04 | 9.77E-05 | 9.77E-05 | 5.45E-05 | 1.39E-05 | 2.02E-05 | 1.53E-05 | 1.53E-06 | 8.39E-06 | 7.56E-07 | 1.09E-05 | 6.79E-05 | 6.79E-05 | 3.36E-05 |
| 2668 | 258307.16 | 4086023.53 | 8.8951E-06 | 1.29E-04 | 9.48E-05 | 9.48E-05 | 5.29E-05 | 1.35E-06 | 1.96E-06 | 1.48E-05 | 1.48E-05 | 8.14E-05 | 7.33E-07 | 1.06E-06 | 6.59E-05 | 6.59E-05 | 3.26E-05 |
| 2667 | 258331.44 | 4086022.45 | 6.5267E-05 | 1.25E-04 | 9.20E-05 | 9.20E-05 | 5.13E-05 | 1.31E-06 | 1.90E-05 | 1.44E-06 | 1.44E-05 | 7.89E-05 | 7.11E-07 | 1.03E-05 | 6.39E-06 | 6.39E-05 | 3.16E-05 |
| 2668 | 258355.72 | 4086021.38 | 8.3644E-05 | 1.21E-04 | 8.92E-05 | 8.92E-05 | 4.97E-05 | 1.27E-05 | 1.84E-05 | 1.39E-05 | 1.39E-05 | 7.65E-06 | 6.89E-07 | 9.97E-06 | 6.19E-06 | 6.19E-06 | 3.07E-06 |
| 2669 | 258380 | 4086020.3 | 6.1083E-05 | 1.17E-04 | 8.64E-05 | 8.64E-05 | 4.82E-05 | 1.23E-06 | 1.79E-05 | 1.35E-05 | 1.35E-05 | 7.42E-05 | 6.68E-07 | 9.67E-06 | 6.00E-05 | 6.00E-05 | 2.97E-05 |
| 2670 | 258404.28 | 4086019.23 | 7.8624E-05 | 1.14E-04 | 8.38E-05 | 8.38E-05 | 4.87E-05 | 1.19E-06 | 1.73E-05 | 1.31E-05 | 1.31E-06 | 7.19E-06 | 6.48E-07 | 9.37E-06 | 5.82E-05 | 5.82E-05 | 2.88E-06 |
| 2671 | 257589.14 | 4086246.23 | 0.000011969 | 1.73E-04 | 1.28E-04 | 1.28E-04 | 7.11E-05 | 1.82E-06 | 2.64E-05 | 1.99E-05 | 1.99E-05 | 1.10E-05 | 9.87E-07 | 1.43E-05 | 8.86E-06 | 8.86E-06 | 4.39E-05 |
| 2672 | 257566.45 | 4086237.94 | 0.000012219 | 1.77E-04 | 1.30E-04 | 1.30E-04 | 7.26E-05 | 1.85E-06 | 2.69E-05 | 2.03E-05 | 2.03E

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2454 | 257115.87 | 4085508.56 | 0.000030632 | 4.43E-04 | 3.27E-04 | 2.27E-04 | 1.82E-04 | 4.65E-05 | 6.75E-05 | 5.10E-05 | 5.10E-05 | 2.80E-05 | 2.52E-05 | 2.65E-05 | 2.27E-05 | 2.27E-05 | 1.12E-05 |
| 2455 | 257105.72 | 4085486.51 | 0.000030095 | 4.25E-04 | 3.21E-04 | 2.21E-04 | 1.79E-04 | 4.57E-06 | 6.63E-05 | 5.01E-05 | 5.01E-05 | 2.75E-05 | 2.48E-06 | 2.59E-05 | 2.23E-05 | 2.23E-05 | 1.10E-05 |
| 2456 | 257095.57 | 4085464.46 | 0.00002928 | 4.23E-04 | 3.12E-04 | 3.12E-04 | 1.74E-04 | 4.44E-06 | 6.45E-05 | 4.87E-05 | 4.87E-05 | 2.68E-05 | 2.41E-06 | 3.49E-05 | 2.17E-05 | 2.17E-05 | 1.07E-05 |
| 2457 | 257085.41 | 4085442.41 | 0.000028185 | 4.08E-04 | 3.00E-04 | 3.00E-04 | 1.68E-04 | 4.28E-06 | 6.21E-05 | 4.69E-05 | 4.69E-05 | 2.58E-05 | 2.32E-06 | 3.36E-05 | 2.09E-05 | 2.09E-05 | 1.03E-05 |
| 2458 | 257075.26 | 4085420.36 | 0.000026829 | 3.88E-04 | 2.86E-04 | 2.86E-04 | 1.59E-04 | 4.07E-06 | 5.91E-05 | 4.47E-05 | 4.47E-05 | 2.46E-05 | 2.21E-06 | 3.70E-05 | 1.99E-05 | 1.99E-05 | 9.83E-06 |
| 2459 | 257065.11 | 4085398.31 | 0.000025251 | 3.65E-04 | 2.69E-04 | 2.69E-04 | 1.50E-04 | 3.83E-05 | 5.56E-05 | 4.20E-05 | 4.20E-05 | 2.21E-05 | 2.08E-06 | 2.01E-05 | 1.67E-05 | 1.87E-05 | 9.26E-06 |
| 2460 | 257054.95 | 4085376.26 | 0.000023517 | 3.40E-04 | 2.51E-04 | 2.51E-04 | 1.40E-04 | 3.57E-05 | 5.18E-06 | 2.91E-06 | 2.91E-06 | 2.15E-06 | 1.94E-05 | 2.80E-06 | 1.74E-06 | 1.74E-05 | 6.62E-06 |
| 2461 | 257044.8 | 4085354.21 | 0.000021718 | 3.14E-04 | 2.32E-04 | 2.32E-04 | 1.29E-04 | 2.30E-05 | 4.79E-06 | 2.62E-05 | 3.62E-05 | 1.99E-06 | 1.79E-06 | 2.59E-05 | 1.61E-06 | 1.61E-06 | 7.96E-05 |
| 2462 | 257034.65 | 4085222.16 | 0.000019938 | 2.88E-04 | 2.13E-04 | 2.13E-04 | 1.18E-04 | 3.03E-05 | 4.39E-06 | 3.32E-05 | 3.32E-05 | 1.62E-05 | 1.64E-05 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.21E-05 |
| 2463 | 257024.49 | 4085310.11 | 0.000018255 | 2.64E-04 | 1.95E-04 | 1.95E-04 | 1.08E-04 | 2.77E-06 | 4.02E-05 | 3.04E-05 | 3.04E-05 | 1.67E-05 | 1.50E-06 | 2.18E-05 | 1.35E-05 | 1.35E-05 | 6.69E-06 |
| 2464 | 257014.34 | 4085288.06 | 0.000016731 | 2.42E-04 | 1.78E-04 | 1.78E-04 | 9.94E-05 | 2.54E-06 | 3.69E-06 | 2.78E-05 | 2.78E-06 | 1.53E-06 | 1.38E-06 | 1.99E-05 | 1.24E-05 | 1.24E-05 | 6.13E-06 |
| 2465 | 257004.19 | 4085266.01 | 0.000025295 | 2.23E-04 | 1.64E-04 | 1.64E-04 | 9.15E-06 | 2.34E-05 | 3.39E-06 | 2.56E-06 | 2.56E-05 | 1.41E-05 | 1.27E-05 | 1.64E-06 | 1.14E-06 | 1.14E-05 | 5.64E-06 |
| 2466 | 256994.03 | 4085242.96 | 0.000014254 | 2.06E-04 | 1.52E-04 | 1.52E-04 | 8.47E-05 | 2.16E-05 | 2.14E-06 | 2.37E-05 | 2.27E-05 | 1.30E-05 | 1.17E-06 | 1.70E-05 | 1.06E-05 | 1.06E-05 | 5.22E-05 |
| 2467 | 256983.88 | 4085221.91 | 0.000013212 | 1.92E-04 | 1.42E-04 | 1.42E-04 | 7.91E-05 | 2.02E-05 | 2.92E-05 | 2.22E-05 | 2.22E-05 | 1.22E-05 | 1.10E-05 | 1.59E-05 | 9.86E-06 | 9.86E-05 | 4.88E-05 |
| 2468 | 256973.72 | 4085199.87 | 0.000012547 | 1.81E-04 | 1.34E-04 | 1.34E-04 | 7.46E-06 | 1.90E-06 | 2.76E-05 | 2.09E-05 | 2.09E-05 | 1.15E-06 | 1.03E-06 | 1.50E-05 | 9.29E-06 | 9.29E-05 | 4.60E-05 |
| 2469 | 257589.71 | 4085755.01 | 0.000029777 | 4.31E-04 | 3.17E-04 | 3.17E-04 | 3.77E-04 | 4.52E-06 | 6.36E-05 | 4.96E-05 | 4.98E-06 | 2.72E-05 | 2.45E-05 | 2.55E-05 | 2.21E-05 | 2.21E-05 | 1.09E-05 |
| 2470 | 257613.99 | 4085753.94 | 0.000029814 | 4.31E-04 | 3.18E-04 | 3.18E-04 | 1.77E-04 | 4.52E-05 | 6.57E-06 | 4.96E-05 | 4.96E-06 | 2.73E-05 | 2.46E-05 | 2.55E-05 | 2.21E-05 | 2.21E-05 | 1.09E-05 |
| 2471 | 257638.27 | 4085752.86 | 0.000029804 | 4.31E-04 | 3.18E-04 | 3.18E-04 | 1.77E-04 | 4.52E-06 | 6.57E-06 | 4.96E-05 | 4.96E-05 | 2.72E-05 | 2.46E-05 | 2.55E-05 | 2.21E-05 | 2.21E-05 | 1.09E-05 |
| 2472 | 257662.55 | 4085751.79 | 0.000029739 | 4.30E-04 | 2.17E-04 | 2.17E-04 | 1.77E-04 | 4.51E-06 | 6.55E-06 | 4.95E-05 | 4.95E-05 | 2.72E-05 | 2.45E-06 | 3.55E-05 | 2.20E-05 | 2.20E-05 | 1.09E-05 |
| 2473 | 257686.84 | 4085750.71 | 0.000029618 | 4.28E-04 | 3.16E-04 | 2.16E-04 | 1.76E-04 | 4.50E-05 | 6.53E-05 | 4.93E-05 | 4.93E-05 | 2.71E-05 | 2.44E-06 | 3.53E-05 | 2.19E-05 | 2.19E-05 | 1.09E-05 |
| 2474 | 257711.12 | 4085749.64 | 0.000029425 | 4.26E-04 | 3.14E-04 | 3.14E-04 | 1.75E-04 | 4.47E-06 | 6.49E-05 | 4.90E-05 | 4.90E-05 | 2.69E-05 | 2.43E-06 | 3.51E-05 | 2.18E-05 | 2.18E-05 | 1.08E-05 |
| 2475 | 257735.4 | 4085748.56 | 0.000029198 | 4.22E-04 | 3.11E-04 | 3.11E-04 | 1.74E-04 | 4.43E-06 | 6.43E-05 | 4.85E-05 | 4.86E-05 | 2.67E-05 | 2.41E-06 | 3.48E-05 | 2.16E-05 | 2.16E-05 | 1.07E-05 |
| 2476 | 257759.68 | 4085747.48 | 0.000028905 | 4.18E-04 | 3.08E-04 | 3.08E-04 | 1.77E-04 | 4.39E-05 | 6.37E-05 | 4.81E-06 | 4.81E-06 | 2.65E-05 | 2.38E-05 | 2.45E-05 | 2.14E-05 | 2.14E-05 | 1.06E-06 |
| 2477 | 257783.96 | 4085746.41 | 0.000028566 | 4.13E-04 | 3.05E-04 | 3.05E-04 | 1.70E-04 | 4.34E-05 | 6.29E-06 | 4.75E-05 | 4.75E-06 | 2.61E-06 | 2.25E-05 | 2.41E-05 | 2.12E-05 | 2.12E-05 | 1.05E-05 |
| 2478 | 257808.24 | 4085745.33 | 0.000028136 | 4.07E-04 | 3.00E-04 | 3.00E-04 | 1.67E-04 | 4.27E-06 | 6.20E-06 | 4.68E-05 | 4.68E-06 | 2.57E-05 | 2.22E-05 | 2.35E-05 | 2.08E-05 | 2.08E-05 | 1.03E-05 |
| 2479 | 257832.53 | 4085744.26 | 0.00002762 | 2.99E-04 | 2.94E-04 | 2.94E-04 | 1.64E-04 | 4.19E-06 | 6.09E-05 | 4.60E-05 | 4.60E-06 | 2.53E-05 | 2.28E-05 | 2.29E-05 | 2.05E-05 | 2.05E-05 | 1.01E-06 |
| 2480 | 257856.81 | 4085743.18 | 0.000027159 | 2.92E-04 | 2.90E-04 | 2.90E-04 | 1.61E-04 | 4.12E-06 | 5.98E-05 | 4.52E-05 | 4.52E-06 | 2.49E-05 | 2.24E-06 | 2.24E-05 | 2.01E-06 | 2.01E-05 | 9.96E-05 |
| 2481 | 257881.09 | 4085742.11 | 0.000026689 | 2.86E-04 | 2.85E-04 | 2.85E-04 | 1.59E-04 | 4.05E-06 | 5.88E-05 | 4.44E-05 | 4.44E-06 | 2.44E-06 | 2.20E-06 | 3.18E-05 | 1.98E-05 | 1.98E-06 | 9.78E-05 |
| 2482 | 257905.37 | 4085741.03 | 0.000026177 | 3.79E-04 | 2.79E-04 | 2.79E-04 | 3.36E-04 | 3.97E-06 | 5.77E-06 | 4.36E-05 | 4.36E-05 | 2.40E-05 | 2.16E-06 | 2.12E-05 | 1.94E-05 | 1.94E-05 | 9.60E-05 |
| 2483 | 257929.65 | 4085739.96 | 0.000025614 | 3.70E-04 | 2.73E-04 | 2.73E-04 | 1.52E-04 | 2.89E-06 | 5.64E-05 | 4.26E-05 | 4.26E-05 | 2.34E-05 | 2.11E-05 | 2.05E-05 | 1.90E-05 | 1.90E-05 | 9.39E-06 |
| 2484 | 257952.94 | 4085738.88 | 0.000024995 | 2.62E-04 | 2.66E-04 | 2.66E-04 | 1.49E-04 | 2.79E-05 | 5.51E-06 | 4.16E-05 | 4.16E-05 | 2.29E-06 | 2.06E-06 | 2.98E-05 | 1.85E-06 | 1.85E-06 | 9.16E-05 |
| 2485 | 257978.22 | 4085737.81 | 0.000024229 | 2.52E-04 | 2.59E-04 | 2.59E-04 | 1.45E-04 | 3.69E-06 | 5.36E-06 | 4.05E-05 | 4.05E-06 | 2.23E-06 | 2.01E-06 | 2.90E-05 | 1.80E-06 | 1.80E-05 | 8.92E-05 |
| 2486 | 258002.5 | 4085736.73 | 0.000023632 | 3.42E-04 | 2.52E-04 | 2.52E-04 | 1.40E-04 | 3.59E-06 | 5.21E-06 | 3.93E-05 | 3.93E-06 | 2.16E-06 | 1.95E-06 | 2.82E-05 | 1.75E-06 | 1.75E-06 | 8.66E-05 |
| 2487 | 258026.78 | 4085735.65 | 0.000022921 | 3.32E-04 | 2.44E-04 | 2.44E-04 | 3.36E-04 | 3.48E-06 | 5.05E-05 | 2.82E-05 | 2.82E-05 | 2.10E-05 | 1.89E-05 | 2.73E-05 | 1.70E-06 | 1.70E-06 | 8.40E-06 |
| 2488 | 258051.06 | 4085734.58 | 0.000022214 | 3.21E-04 | 2.37E-04 | 2.37E-04 | 1.37E-04 | 3.37E-05 | 4.89E-05 | 2.70E-06 | 3.70E-06 | 2.03E-05 | 1.83E-05 | 2.65E-05 | 1.65E-06 | 1.65E-05 | 8.14E-05 |
| 2489 | 258075.34 | 4085733.5 | 0.000021528 | 3.11E-04 | 2.29E-04 | 2.29E-04 | 1.28E-04 | 2.27E-05 | 4.74E-06 | 2.58E-05 | 2.58E-06 | 1.97E-06 | 1.77E-05 | 2.57E-06 | 1.59E-06 | 1.59E-05 | 7.89E-06 |
| 2490 | 258099.63 | 4085732.43 | 0.000020858 | 2.02E-04 | 2.22E-04 | 2.22E-04 | 1.24E-04 | 2.17E-05 | 4.60E-06 | 2.47E-06 | 2.47E-06 | 1.91E-05 | 1.72E-06 | 2.49E-05 | 1.54E-05 | 1.54E-06 | 7.65E-06 |
| 2491 | 258122.91 | 4085731.35 | 0.000020204 | 2.92E-04 | 2.15E-04 | 2.25E-04 | 1.20E-04 | 2.07E-05 | 4.45E-06 | 3.36E-05 | 3.36E-05 | 1.85E-05 | 1.67E-05 | 2.41E-05 | 1.50E-06 | 1.50E-05 | 7.41E-05 |
| 2492 | 258148.19 | 4085730.28 | 0.00001955 | 2.81E-04 | 2.08E-04 | 2.08E-04 | 1.16E-04 | 2.97E-06 | 4.31E-05 | 3.25E-05 | 3.25E-05 | 1.79E-05 | 1.61E-06 | 2.33E-05 | 1.45E-05 | 1.45E-06 | 7.17E-05 |
| 2493 | 258172.47 | 4085729.2 | 0.000018887 | 2.73E-04 | 2.01E-04 | 2.01E-04 | 3.12E-04 | 2.87E-06 | 4.16E-05 | 3.14E-05 | 2.14E-06 | 1.73E-06 | 1.56E-06 | 2.25E-05 | 1.40E-05 | 1.40E-05 | 6.92E-06 |
| 2494 | 258196.75 | 4085728.13 | 0.000018208 | 2.63E-04 | 1.94E-04 | 1.94E-04 | 1.08E-04 | 2.76E-05 | 4.01E-05 | 3.03E-06 | 2.03E-05 | 1.67E-06 | 1.50E-06 | 2.17E-06 | 1.25E-06 | 1.35E-06 | 6.67E-05 |
| 2495 | 258221.04 | 4085777.05 | 0.000017514 | 2.53E-04 | 1.87E-04 | 1.87E-04 | 1.04E-04 | 2.66E-05 | 2.86E-05 | 2.92E-06 | 2.92E-06 | 1.60E-06 | 1.44E-05 | 2.09E-06 | 1.30E-05 | 1.30E-05 | 6.42E-06 |
| 2496 | 258245.32 | 4085725.98 | 0.000016825 | 2.42E-04 | 1.79E-04 | 1.79E-04 | 9.99E-05 | 2.55E-05 | 2.71E-06 | 2.80E-06 | 2.80E-05 | 1.54E-06 | 1.39E-05 | 2.00E-06 | 1.25E-06 | 1.25E-06 | 6.16E-06 |
| 2497 | 258269.6 | 4085724.9 | 0.00001612 | 2.33E-04 | 1.72E-04 | 1.72E-04 | 9.58E-06 | 2.45E-05 | 2.55E-06 | 2.68E-06 | 2.68E-06 | 1.48E-06 | 1.33E-05 | 1.92E-06 | 1.19E-06 | 1.19E-05 | 5.91E-06 |
| 2498 | 258293.88 | 4085723.82 | 0.000015438 | 2.23E-04 | 1.65E-04 | 1.65E-04 | 9.18E-05 | 2.34E-05 | 2.40E-06 | 2.57E-06 | 2.57E-05 | 1.41E-05 | 1.27E-06 | 1.84E-06 | 1.14E-06 | 1.14E-05 | 5.66E-05 |
| 2499 | 258318.16 | 4085722.75 | 0.00001477 | 2.14E-04 | 1.57E-04 | 1.57E-04 | 8.78E-05 | 2.24E-06 | 2.25E-06 | 2.46E-05 | 2.46E-05 | 1.35E-05 | 1.22E-06 | 1.76E-05 | 1.09E-05 | 1.09E-05 | 5.41E-05 |
| 2500 | 258342.44 | 4085721.67 | 0.000014116 | 2.04E-04 | 1.50E-04 | 1.50E-04 | 8.29E-05 | 2.14E-06 | 3.11E-06 | 2.35E-05 | 2.35E-06 | 1.29E-05 | 1.16E-06 | 1.68E-05 | 1.05E-05 | 1.05E-05 | 5.17E-05 |
| 2501 | 258266.73 | 4085720.6 | 0.000013485 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.01E-05 | 2.05E-06 | 2.97E-05 | 2.24E-05 | 2.24E-05 | 1.23E-05 | 1.11E-06 | 1.61E-05 | 9.99E-05 | 9.99E-05 | 4.94E-05 |
| 2502 | 258391.01 | 4085719.52 | 0.000012883 | 1.86E-04 | 1.37E-04 | 1.37E-04 | 7.66E-05 | 1.96E-06 | 2.84E-06 | 2.14E-05 | 2.14E-05 | 1.18E-05 | 1.06E-06 | 1.54E-05 | 9.54E-06 | 9.54E-05 | 4.77E-05 |
| 2503 | 257577.16 | 4085846.89 | 0.000024085 | 3.48E-04 | 2.57E-04 | 2.57E-04 | 1.43E-04 | 2.65E-05 | 5.30E-05 | 4.01E-06 | 4.01E-05 | 2.20E-05 | 1.98E-05 | 2.87E-06 | 1.76E-05 | 1.78E-05 | 8.82E-06 |
| 2504 | 257550.18 | 4085838.86 | 0.000024499 | 2.54E-04 | 2.61E-04 | 2.61E-04 | 1.46E-04 | 3.72E-05 | 5.40E-05 | 4.08E-06 | 4.08E-05 | 2.24E-06 | 2.02E-05 | 2.92E-06 | 1.81E-06 | 1.81E-06 | 8.98E-05 |
| 2505 | 257528.21 | 4085830.83 | 0.000024917 | 2.60E-04 | 2.66E-04 | 2.66E-04 | 1.48E-04 | 3.78E-06 | 5.49E-05 | 4.15E-05 | 4.15E-05 | 2.28E-05 | 2.05E-05 | 2.97E-06 | 1.85E-06 | 1.85E-06 | 9.13E-05 |
| 2506 | 257506.23 | 4085822.8 | 0.000023221 | 2.66E-04 | 2.70E-04 | 2.70E-04 | 1.50E-04 | 3.84E-05 | 5.58E-05 | 4.21E-05 | 4.21E-05 | 2.32E-05 | 2.09E-06 | 3.02E-05 | 1.88E-05 | 1.88E-06 | 9.28E-05 |
| 2507 | 257484.26 | 4085814.78 | 0.000025704 | 3.77E-04 | 2.74E-04 | 2.74E-04 | 1.53E-04 | 3.90E-05 | 5.66E-06 | 4.28E-05 | 4.28E-05 | 2.35E-05 | 2.12E-06 | 2.06E-05 | 1.90E-05 | 1.90E-05 | 9.42E-06 |
| 2508 | 257462.28 | 4085806.75 | 0.000026067 | 3.77E-04 | 2.78E-04 | 2.78E-04 | 1.55E-04 | 3.96E-05 | 5.74E-06 | 4.34E-05 | 4.34E-05 | 2.39E-05 | 2.25E-06 | 3.11E-05 | 1.92E-06 | 1.93E-05 | 9.36E-05 |
| 2509 | 257440.21 | 4085798.77 | 0.000026407 | 2.82E-04 | 2.82E-04 | 2.82E-04 | 1.57E-04 | 4.01E-05 | 5.82E-05 | 4.40E-06 | 4.40E-06 | 2.42E-06 | 2.18E-05 | 2.25E-06 | 1.96E-05 | 1.96E-05 | 9.68E-06 |
| 2510 | 257418.33 | 4085790.69 | 0.000026722 | 2.87E-04 | 2.85E-04 | 2.85E-04 | 1.59E-04 | 4.06E-06 | 5.89E-06 | 4.45E-05 | 4.45E-05 | 2.45E-05 | 2.20E-05 | 2.19E-06 | 1.98E-05 | 1.98E-06 | 9.80E-05 |
| 2511 | 257396.36 | 4085782.67 | 0.000027017 | 2.91E-04 | 2.88E-04 | 2.88E-04 | 1.61E-04 | 4.10E-06 | 5.95E-05 | 4.50E-05 | 4.50E-05 | 2.47E-05 | 2.23E-06 | 2.22E-05 | 2.00E-05 | 2.00E-06 | 9.90E-05 |
| 2512 | 257374.38 | 4085774.64 | 0.000027294 | 3.95E-04 | 2.91E-04 | 2.91E-04 | 1.62E-04 | 4.14E-05 | 6.01E-05 | 4.54E-05 | 4.54E-05 | 2.50E-05 | 2.25E-05 | 3.25E-05 | 2.02E-05 | 2.02E-05 | 1.00E-05 |
| 2513 | 257352.41 | 4085766.61 | 0.000027548 | 3.98E-04 | 2.94E-04 | 2.94E-04 | 1.64E-04 | 4.18E-06 | 6.07E-06 | 4.59E-06 | 4.59E-06 | 2.52E-06 | 2.27E-06 | 3.28E-06 | 2.04E-05 | 2.04E-06 | 1.01E-06 |
| 2514 | 257330.43 | 4085758.58 | 0.000027763 | 4.02E-04 | 2.96E-04 | 2.96E-04 | 1.65E-04 | 4.21E-05 | 6.12E-06 | 4.62E-05 | 4.62E-06 | 2.54E-05 | 2.29E-06 | 3.21E-05 | 2.06E-06 | 2.06E-05 | 1.02E-06 |
| 2525 | 257308.46 | 4085750.56 | 0.000027917 | 4.04E-04 | 2.98E-04 | 2.98E-04 | 1.66E-04 | 4.24E-05 | 6.25E-05 | 4.65E-05 | 4.65E-06 | 2.55E-05 | 2.30E-05 | 2.22E-06 | 2.07E-05 | 2.07E-05 | 1.02E-05 |
| 2516 | 257286.48 | 4085742.53 | 0.000027991 | 4.05E-04 | 2.98E-04 | 2.98E-04 | 1.66E-04 | 4.25E-05 | 6.17E-05 | 4.66E-06 | 4.66E-05 | 2.56E-06 | 2.21E-06 | 2.34E-05 | 2.07E-05 | 2.07E-05 | 1.02E-05 |
| 2517 | 257264.51 | 4085734.5 | 0.000027966 | 4.04E-04 | 2.98E-04 | 2.96E-04 | 1.66E-04 | 4.24E-05 | 6.16E-05 | 4.65E-05 | 4.65E-06 | 2.56E-05 | 2.31E-05 | 3.33E-06 | 2.07E-05 | 2.07E-05 | 1.03E-05 |
| 2518 | 257242.53 | 4085726.47 | 0.000027845 | 4.03E-04 | 2.97E-04 | 2.97E-04 | 1.65E-04 | 4.23E-05 | 6.14E-05 | 4.63E-05 | 4.63E-05 | 2.55E-05 | 2.30E-05 | 3.32E-06 | 2.06E-06 | 2.06E-06 | 1.02E-06 |
| 2519 | 257220.56 | 4085718.45 | 0.000027683 | 4.00E-04 | 2.95E-04 | 2.95E-04 | 1.65E-04 | 4.20E-05 | 6.10E-06 | 4.61E-05 | 4.61E-05 | 2.53E-05 | 2.28E-05 | 3.30E-05 | 2.05E-05 | 2.05E-06 | 1.01E-05 |
| 2520 | 257198.58 | 4085710.42 | 0.000027444 | 2.97E-04 | 2.93E-04 | 2.92E-04 | 1.63E-04 | 4.17E-06 | 6.05E-05 | 4.57E-05 | 4.57E-05 | 2.51E-05 | 2.26E-06 | 2.27E-05 | 2.03E-05 | 2.03E-05 | 1.01E-05 |
| 2521 | 257176.61 | 4085702.39 | 0.00002713 | 2.92E-04 | 2.89E-04 | 2.89E-04 | 1.61E-04 | 4.12E-05 | 5.98E-05 | 4.52E-06 | 4.52E-05 | 2.48E-05 | 2.24E-06 | 3.23E-05 | 2.01E-05 | 2.01E-06 | 9.95E-05 |
| 2522 | 257154.63 | 4085694.36 | 0.000026788 | 3.87E-04 | 2.85E-04 | 2.86E-04 | 1.59E-04 | 4.07E-06 | 5.90E-06 | 4.46E-05 | 4.46E-05 | 2.45E-06 | 2.21E-06 | 2.19E-05 | 1.96E-05 | 1.98E-05 | 9.82E-06 |
| 2523 | 257132.66 | 4085686.34 | 0.000026427 | 3.82E-04 | 2.82E-04 | 2.82E-04 | 1.57E-04 | 4.01E-06 | 5.82E-05 | 4.40E-06 | 4.40E-06 | 2.42E-06 | 2.18E-06 | 2.25E-05 | 1.96E-06 | 1.96E-05 | 9.69E-05 |
| 2524 | 257110.68 | 4085678.21 | 0.000026044 | 3.77E-04 | 2.78E-04 | 2.78E-04 | 1.55E-04 | 2.95E-05 | 5.74E-06 | 4.34E-06 | 4.34E-05 | 2.28E-05 | 2.15E-05 | 2.11E-05 | 1.92E-05 | 1.93E-05 | 9.55E-05 |
| 2525 | 257078.92 | 4085649.03 | 0.000025925 | 2.75E-04 | 2.76E-04 | 2.76E-04 | 1.54E-04 | 2.92E-05 | 5.71E-05 | 4.32E-05 | 4.32E-05 | 2.37E-06 | 2.14E-06 | 3.09E-05 | 1.92E-06 | 1.92E-06 | 9.50E-06 |
| 2526 | 257069.14 | 4085627.78 | 0.000026122 | 2.78E-04 | 2.78E-04 | 2.78E-04 | 1.55E-04 | 2.96E-06 | 5.76E-05 | 4.35E-06 | 4.35E-06 | 2.39E-05 | 2.15E-06 | 3.11E-06 | 1.93E-06 | 1.93E-06 | 9.56E-05 |
| 2527 | 257059.35 | 4085606.53 | 0.0000262 | 3.79E-04 | 2.79E-04 | 2.79E-04 | 1.56E-04 | 3.98E-06 | 5.77E-05 | 4.36E-06 | 4.36E-06 | 2.40E-06 | 2.16E-06 | 3.12E-05 | 1.94E-05 | 1.94E-06 | 9.60E-05 |
| 2528 | 257049.57 | 4085585.28 | 0.000026138 | 3.78E-04 | 2.79E-04 | 2.79E-04 | 1.55E-04 | 3.97E-06 | 5.76E-05 | 4.35E-05 | 4.25E-05 | 2.29E-05 | 2.15E-06 | 3.12E-05 | 1.94E-05 | 1.94E-05 | 9.58E-05 |
| 2529 | 257039.78 | 4085564.03 | 0.000025909 | 2.75E-04 | 2.76E-04 | 2.76E-04 | 1.54E-04 | 2.93E-05 | 5.71E-05 | 4.31E-06 | 4.21E-05 | 2.27E-06 | 2.14E-05 | 2.09E-05 | 1.92E-05 | 1.92E-05 | 9.50E-06 |
| 2530 | 257029.99 | 4085542.78 | 0.000023501 | 2.69E-04 | 2.72E-04 | 2.72E-04 | 1.52E-04 | 2.87E-05 | 5.62E-06 | 4.24E-06 | 4.24E-05 | 2.22E-06 | 2.10E-05 | 2.04E-06 | 1.89E-06 | 1.89E-05 | 9.25E-05 |
| 2531 | 257020.21 | 4085521.53 | 0.000024901 | 2.60E-04 | 2.65E-04 | 2.65E-04 | 1.48E-04 | 2.78E-06 | 5.49E-05 | 4.14E-05 | 4.14E-05 | 2.28E-05 | 2.05E-06 | 2.97E-05 | 1.84E-06 | 1.84E-06 | 9.13E-06 |
| 2532 | 257010.42 | 4085500.28 | 0.00002411 | 2.49E-04 | 2.57E-04 | 2.57E-04 | 1.43E-04 | 3.66E-05 | 5.31E-05 | 4.01E-06 | 4.01E-05 | 2.21E-05 | 1.99E-05 | 2.87E-06 | 1.79E-06 | 1.79E-05 | 8.84E-05 |
| 2533 | 257000.64 | 4085479.03 | 0.000023136 | 2.35E-04 | 2.47E-04 | 2.47E-04 | 1.38E-04 | 3.51E-06 | 5.10E-05 | 3.85E-05 | 2.85E-05 | 2.12E-05 | 1.91E-06 | 2.76E-05 | 1.71E-05 | 1.71E-06 | 6.48E-05 |
| 2534 | 256990.83 | 4085457.78 | 0.000022001 | 3.18E-04 | 2.35E-04 | 2.35E-04 | 1.31E-04 | 3.34E-06 | 4.85E-05 | 2.66E-05 | 3.66E-06 | 2.01E-05 | 1.81E-05 | 2.62E-05 | 1.63E-05 | 1.63E-05 | 6.06E-06 |
| 2535 | 256981.07 | 4085436.52 | 0.000020741 | 3.00E-04 | 2.21E-04 | 2.21E-04 | 1.23E-04 | 2.25E-05 | 4.57E-06 | 2.45E-05 | 2.45E-05 | 1.90E-06 | 1.71E-05 | 2.47E-06 | 1.54E-06 | 1.54E-05 | 7.60E-06 |
| 2536 | 256971.28 | 4085425.27 | 0.000019299 | 2.81E-04 | 2.07E-04 | 2.07E-04 | 1.25E-04 | 2.94E-05 | 4.27E-06 | 2.23E-05 | 2.22E-06 | 1.78E-05 | 1.60E-05 | 2.21E-06 | 1.44E-06 | 1.44E-05 | 7.11E-05 |
| 2537 | 256961.5 | 4085394.02 | 0.000018028 | 2.61E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.74E-06 | 2.97E-05 | 3.00E-05 | 2.00E-05 | 1.65E-05 | 1.49E-05 | 2.15E-06 | 1.34E-06 | 1.34E-06 | 6.61E-06 |
| 2538 | 256951.71 | 4085372.77 | 0.000016684 | 2.41E-04 | 1.78E-04 | 1.78E-04 | 9.92E-05 | 2.53E-06 | 3.68E-06 | 2.76E-05 | 2.78E-05 | 1.53E-05 | 1.38E-06 | 1.99E-06 | 1.24E-05 | 1.24E-06 | 6.12E-05 |
| 2539 | 256941.92 | 4085251.52 | 0.000015425 | 2.23E-04 | 1.64E-04 | 1.64E-04 | 9.16E-05 | 2.34E-05 | 3.40E-05 | 2.57E-05 | 2.57E-05 | 1.41E-05 | 1.27E-05 | 1.84E-06 | 1.14E-05 | 3.14E-06 | 5.65E-05 |
| 2540 | 256932.14 | 4085330.27 | 0.000014258 | 2.06E-04 | 1.52E-04 | 1.52E-04 | 8.47E-05 | 2.16E-06 | 3.14E-05 | 2.37E-06 | 2.37E-05 | 1.30E-05 | 1.18E-05 | 1.70E-05 | 1.06E-05 | 3.06E-05 | 5.23E-06 |
| 2541 | 256922.35 | 4085309.02 | 0.000013225 | 1.91E-04 | 1.41E-04 | 1.41E-04 | 7.86E-05 | 2.01E-06 | 2.91E-05 | 2.20E-05 | 2.20E-05 | 1.21E-05 | 1.09E-06 | 1.58E-05 | 9.79E-06 | 9.79E-05 | 4.85E-06 |
| 2542 | 256912.57 | 4085287.77 | 0.000012342 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.87E-06 | 2.77E-05 | 2.05E-06 | 2.05E-06 | 1.13E-06 | 1.02E-06 | 1.47E-06 | 9.14E-06 | 9.14E-06 | 4.52E-06 |
| 2543 | 256902.78 | 4085266.52 | 0.0000116 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.89E-05 | 1.76E-05 | 2.56E-05 | 1.93E-05 | 1.93E-05 | 1.06E-06 | 9.56E-07 | 1.38E-06 | 8.59E-05 | 8.59E-06 | 4.25E-05 |
| 2544 | 256893 | 4085245.27 | 0.000010979 | 1.59E-04 | 1.17E-04 | 1.17E-04 | 6.52E-05 | 1.67E-06 | 2.42E-05 | 1.83E-06 | 1.83E-05 | 1.00E-05 | 9.05E-07 | 1.21E-05 | 8.13E-05 | 8.12E-06 | 4.02E-05 |
| 2545 | 256883.21 | 4085224.02 | 0.000010463 | 1.51E-04 | 1.12E-04 | 1.12E-04 | 6.22E-05 | 1.59E-06 | 2.31E-05 | 1.74E-05 | 1.74E-05 | 9.57E-06 | 6.62E-07 | 1.25E-05 | 7.75E-06 | 7.75E-06 | 2.84E-06 |
| 2546 | 256873.43 | 4085202.77 | 0.000010028 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.96E-05 | 1.52E-06 | 2.21E-05 | 1.67E-05 | 1.67E-05 | 9.18E-06 | 8.27E-07 | 1.20E-06 | 7.43E-06 | 7.43E-06 | 3.68E-06 |
| 2547 | 257594.13 | 4085854.91 | 0.000023614 | 3.42E-04 | 2.52E-04 | 2.52E-04 | 1.40E-04 | 3.58E-06 | 5.20E-06 | 2.93E-06 | 2.92E-06 | 2.16E-05 | 1.95E-06 | 2.82E-05 | 3.75E-05 | 1.75E-05 | 6.66E-06 |
| 2548 | 257618.41 | 4085853.84 | 0.000023589 | 3.41E-04 | 2.51E-04 | 2.51E-04 | 1.40E-04 | 3.58E-06 | 5.20E-06 | 2.93E-05 | 2.92E-06 | 2.16E-05 | 1.94E-06 | 2.81E-06 | 1.75E-05 | 1.75E-05 | 6.65E-05 |
| 2549 | 257642.7 | 4085852.76 | 0.0000252 | 3.40E-04 | 2.51E-04 | 2.51E-04 | 1.40E-04 | 2.57E-06 | 5.18E-05 | 2.92E-05 | 2.92E-05 | 2.15E-05 | 1.94E-06 | 2.81E-05 | 1.74E-05 | 1.74E-05 | 8.63E-05 |
| 2550 | 257666.98 | 4085851.69 | 0.000023429 | 3.39E-04 | 2.50E-04 | 2.50E-04 | 1.29E-04 | 2.56E-05 | 5.16E-06 | 2.90E-05 | 2.90E-06 | 2.14E-05 | 1.92E-05 | 2.79E-05 | 1.74E-05 | 1.74E-05 | 8.59E-06 |
| 2551 | 257691.26 | 4085850.61 | 0.000023286 | 2.37E-04 | 2.48E-04 | 2.48E-04 | 1.38E-04 | 2.52E-05 | 5.13E-05 | 2.88E-05 | 2.88E-05 | 2.13E-05 | 1.92E-05 | 2.78E-06 | 1.77E-06 | 1.77E-05 | 8.54E-06 |
| 2552 | 257725.54 | 4085849.54 | 0.000023095 | 2.34E-04 | 2.46E-04 | 2.46E-04 | 1.27E-04 | 2.51E-05 | 5.09E-05 | 2.84E-05 | 2.84E-05 | 2.11E-05 | 1.90E-06 | 2.75E-05 | 1.71E-05 | 1.71E-05 | 8.47E-05 |
| 2552 | 257729.82 | 4085848.46 | 0.000022852 | 2.31E-04 | 2.44E-04 | 2.44E-04 | 1.36E-04 | 2.47E-06 | 5.04E-05 | 2.80E-05 | 3.80E-05 | 2.09E-05 | 1.88E-05 | 2.72E-05 | 1.69E-05 | 1.69E-05 | 8.38E-06 |
| 2554 | 257764.11 | 4085847.39 | 0.000022452 | 2.25E-04 | 2.29E-04 | 2.39E-04 | 1.33E-04 | 3.41E-05 | 4.95E-05 | 3.74E-05 | 3.74E-05 | 2.05E-05 | 1.65E-06 | 2.68E-06 | 1.66E-05 | 1.66E-05 | 8.23E-06 |
| 2555 | 257783.39 | 4085846.31 | 0.000023104 | 3.20E-04 | 2.36E-04 | 2.36E-04 | 1.31E-04 | 3.35E-06 | 4.87E-05 | 3.68E-05 | 3.68E-05 | 2.02E-05 | 1.62E-05 | 2.64E-05 | 1.

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2337 | 257629.42 | 4085553.06 | 0.000054372 | 7.86E-04 | 5.80E-04 | 5.80E-04 | 3.23E-04 | 8.25E-05 | 1.20E-04 | 9.05E-05 | 9.05E-05 | 4.98E-05 | 4.48E-06 | 6.48E-05 | 4.03E-05 | 4.03E-05 | 1.99E-05 |
| 2338 | 257653.7 | 4085551.98 | 0.000054641 | 7.90E-04 | 5.83E-04 | 5.83E-04 | 3.25E-04 | 8.29E-06 | 1.20E-04 | 9.10E-05 | 9.10E-05 | 5.00E-05 | 4.50E-06 | 6.51E-05 | 4.05E-05 | 4.05E-05 | 2.00E-05 |
| 2339 | 257672.99 | 4085550.91 | 0.000054742 | 7.92E-04 | 5.84E-04 | 5.84E-04 | 3.25E-04 | 8.31E-06 | 1.21E-04 | 9.11E-05 | 9.11E-06 | 5.01E-05 | 4.51E-06 | 6.53E-05 | 4.05E-05 | 4.05E-05 | 2.01E-05 |
| 2340 | 257702.27 | 4085549.83 | 0.000054699 | 7.91E-04 | 5.83E-04 | 5.83E-04 | 3.25E-04 | 8.30E-06 | 1.21E-04 | 9.10E-05 | 9.10E-05 | 5.01E-05 | 4.51E-06 | 6.52E-05 | 4.05E-05 | 4.05E-05 | 2.01E-05 |
| 2341 | 257776.55 | 4085548.76 | 0.000054543 | 7.89E-04 | 5.81E-04 | 5.81E-04 | 3.24E-04 | 8.28E-06 | 1.20E-04 | 9.08E-05 | 9.08E-05 | 4.99E-05 | 4.50E-06 | 6.50E-05 | 4.04E-05 | 4.04E-05 | 2.00E-05 |
| 2342 | 257750.83 | 4085547.88 | 0.000054307 | 7.85E-04 | 5.79E-04 | 5.79E-04 | 3.23E-04 | 8.24E-06 | 1.20E-04 | 9.04E-05 | 9.04E-05 | 4.97E-05 | 4.48E-06 | 6.47E-05 | 4.02E-05 | 4.02E-05 | 1.99E-05 |
| 2343 | 257775.11 | 4085546.6 | 0.000054004 | 7.81E-04 | 5.76E-04 | 5.76E-04 | 3.21E-04 | 8.20E-06 | 1.19E-04 | 8.99E-05 | 8.99E-06 | 4.94E-05 | 4.45E-06 | 6.44E-05 | 4.00E-05 | 4.00E-05 | 1.98E-05 |
| 2344 | 257799.4 | 4085545.53 | 0.000053625 | 7.76E-04 | 5.72E-04 | 5.72E-04 | 3.19E-04 | 8.14E-06 | 1.18E-04 | 8.93E-05 | 8.93E-05 | 4.91E-05 | 4.42E-06 | 6.39E-05 | 3.97E-05 | 3.97E-05 | 1.97E-05 |
| 2345 | 257823.68 | 4085544.45 | 0.00005316 | 7.69E-04 | 5.67E-04 | 5.67E-04 | 3.16E-04 | 8.07E-06 | 1.17E-04 | 8.85E-06 | 8.85E-05 | 4.86E-05 | 4.38E-06 | 6.34E-05 | 3.94E-05 | 3.94E-05 | 1.95E-05 |
| 2346 | 257847.96 | 4085543.38 | 0.000052588 | 7.61E-04 | 5.61E-04 | 5.61E-04 | 3.12E-04 | 7.98E-06 | 1.16E-04 | 8.75E-05 | 8.75E-05 | 4.81E-05 | 4.33E-06 | 6.27E-05 | 3.89E-05 | 3.89E-05 | 1.93E-05 |
| 2347 | 257872.24 | 4085542.3 | 0.000051904 | 7.51E-04 | 5.53E-04 | 5.53E-04 | 3.08E-04 | 7.88E-06 | 1.14E-04 | 8.64E-06 | 8.64E-05 | 4.75E-05 | 4.28E-06 | 6.19E-05 | 3.84E-05 | 3.84E-05 | 1.90E-05 |
| 2348 | 257896.52 | 4085541.23 | 0.000051104 | 7.39E-04 | 5.45E-04 | 5.45E-04 | 3.04E-04 | 7.76E-06 | 1.12E-04 | 8.51E-06 | 8.51E-05 | 4.68E-05 | 4.21E-06 | 6.09E-05 | 3.78E-05 | 3.78E-06 | 1.87E-06 |
| 2349 | 257920.8 | 4085540.15 | 0.000050199 | 7.26E-04 | 5.35E-04 | 5.35E-04 | 2.98E-04 | 7.62E-06 | 1.11E-04 | 8.36E-05 | 8.36E-06 | 4.59E-05 | 4.14E-06 | 5.98E-06 | 3.77E-05 | 3.72E-05 | 1.84E-06 |
| 2350 | 257945.09 | 4085539.08 | 0.00004918 | 7.11E-04 | 5.24E-04 | 5.24E-04 | 2.92E-04 | 7.46E-06 | 1.08E-04 | 8.19E-06 | 8.19E-05 | 4.50E-05 | 4.05E-05 | 5.86E-05 | 3.64E-05 | 3.64E-05 | 1.80E-06 |
| 2351 | 257969.37 | 4085538 | 0.000048053 | 6.95E-04 | 5.12E-04 | 5.12E-04 | 2.86E-04 | 7.29E-06 | 1.06E-04 | 8.00E-05 | 8.00E-06 | 4.40E-05 | 3.96E-06 | 5.73E-05 | 3.56E-05 | 3.56E-06 | 1.76E-05 |
| 1252 | 257993.65 | 4085536.93 | 0.000046812 | 6.77E-04 | 4.99E-04 | 4.99E-04 | 2.78E-04 | 7.10E-06 | 1.03E-04 | 7.79E-05 | 7.79E-06 | 4.28E-05 | 3.86E-06 | 5.58E-05 | 3.47E-05 | 3.47E-05 | 1.72E-05 |
| 1253 | 258017.93 | 4085535.65 | 0.000045451 | 6.57E-04 | 4.85E-04 | 4.85E-04 | 2.70E-04 | 6.90E-06 | 1.00E-04 | 7.57E-05 | 7.57E-05 | 4.16E-05 | 3.75E-06 | 5.42E-05 | 3.37E-05 | 3.37E-05 | 1.67E-05 |
| 1254 | 258042.21 | 4085534.77 | 0.000043974 | 6.36E-04 | 4.69E-04 | 4.69E-04 | 2.61E-04 | 6.67E-06 | 9.69E-05 | 7.32E-05 | 7.32E-05 | 4.02E-05 | 3.62E-06 | 5.24E-05 | 3.28E-06 | 3.26E-06 | 1.61E-05 |
| 2355 | 258066.5 | 4085533.7 | 0.000042383 | 6.13E-04 | 4.52E-04 | 4.52E-04 | 2.52E-04 | 6.43E-06 | 9.34E-05 | 7.09E-05 | 7.05E-05 | 3.88E-05 | 3.49E-06 | 5.05E-05 | 3.14E-05 | 3.14E-06 | 1.55E-05 |
| 2356 | 258090.78 | 4085532.62 | 0.000040716 | 5.89E-04 | 4.34E-04 | 4.34E-04 | 2.42E-04 | 6.18E-06 | 8.97E-05 | 6.78E-05 | 6.78E-05 | 3.73E-05 | 3.36E-06 | 4.85E-05 | 3.02E-05 | 3.02E-05 | 1.49E-05 |
| 2357 | 258115.06 | 4085531.55 | 0.000038998 | 5.64E-04 | 4.16E-04 | 4.16E-04 | 2.32E-04 | 5.92E-06 | 8.59E-05 | 6.49E-05 | 6.49E-05 | 3.57E-05 | 3.21E-05 | 4.65E-05 | 2.89E-05 | 2.89E-05 | 1.43E-05 |
| 2358 | 258139.34 | 4085530.47 | 0.000037283 | 5.39E-04 | 3.97E-04 | 3.97E-04 | 2.22E-04 | 5.66E-06 | 8.22E-05 | 6.21E-05 | 6.21E-05 | 3.41E-05 | 3.07E-06 | 4.44E-05 | 2.76E-05 | 2.76E-05 | 1.37E-05 |
| 2359 | 258163.62 | 4085529.4 | 0.000035599 | 5.15E-04 | 3.80E-04 | 3.80E-04 | 2.12E-04 | 5.40E-05 | 7.84E-05 | 5.93E-05 | 5.93E-05 | 3.26E-05 | 2.93E-05 | 4.24E-05 | 2.64E-05 | 2.64E-05 | 1.30E-05 |
| 2360 | 258187.9 | 4085526.32 | 0.00003396 | 4.91E-04 | 3.62E-04 | 3.62E-04 | 2.02E-04 | 5.15E-06 | 7.48E-05 | 5.65E-05 | 5.65E-05 | 3.11E-05 | 2.80E-06 | 4.05E-06 | 2.51E-05 | 2.51E-05 | 1.24E-05 |
| 2361 | 258212.19 | 4085527.25 | 0.000032347 | 4.68E-04 | 3.45E-04 | 3.45E-04 | 1.92E-04 | 4.91E-06 | 7.12E-05 | 5.38E-05 | 5.38E-05 | 2.96E-05 | 2.67E-05 | 3.66E-05 | 2.40E-05 | 2.40E-05 | 1.19E-05 |
| 2362 | 258236.47 | 4085526.17 | 0.000030738 | 4.45E-04 | 3.28E-04 | 3.28E-04 | 1.83E-04 | 4.67E-06 | 6.72E-05 | 5.12E-05 | 5.12E-05 | 2.81E-05 | 2.53E-06 | 3.66E-05 | 2.28E-05 | 2.28E-05 | 1.13E-05 |
| 2363 | 258260.75 | 4085525.1 | 0.000029122 | 4.21E-04 | 3.10E-04 | 3.10E-04 | 1.73E-04 | 4.42E-06 | 6.42E-05 | 4.85E-06 | 4.85E-05 | 2.66E-05 | 2.40E-06 | 3.47E-05 | 2.16E-05 | 2.16E-05 | 1.07E-06 |
| 2354 | 258285.03 | 4085524.02 | 0.000037513 | 3.98E-04 | 2.93E-04 | 2.93E-04 | 1.64E-04 | 4.18E-06 | 6.06E-05 | 4.58E-05 | 4.58E-06 | 2.52E-05 | 2.27E-06 | 3.28E-05 | 2.04E-05 | 2.04E-05 | 1.01E-05 |
| 2365 | 258309.31 | 4085522.94 | 0.000025935 | 3.75E-04 | 2.76E-04 | 2.76E-04 | 1.54E-04 | 3.94E-06 | 5.71E-05 | 4.32E-05 | 4.32E-05 | 2.37E-05 | 2.14E-06 | 3.09E-05 | 1.92E-06 | 1.92E-05 | 9.51E-06 |
| 2366 | 258333.6 | 4085521.87 | 0.000024405 | 3.53E-04 | 2.60E-04 | 2.60E-04 | 1.45E-04 | 3.70E-06 | 5.38E-05 | 4.06E-05 | 4.06E-05 | 2.23E-05 | 2.01E-05 | 2.91E-05 | 1.81E-05 | 1.81E-05 | 8.95E-06 |
| 2367 | 258357.88 | 4085520.79 | 0.000022946 | 3.32E-04 | 2.45E-04 | 2.45E-04 | 1.36E-04 | 3.48E-06 | 5.06E-05 | 3.82E-05 | 3.82E-05 | 2.10E-05 | 1.89E-06 | 2.74E-06 | 1.70E-05 | 1.70E-05 | 8.41E-06 |
| 2368 | 258382.16 | 4085519.77 | 0.000021569 | 3.12E-04 | 2.30E-04 | 2.30E-04 | 1.28E-04 | 3.27E-06 | 4.75E-05 | 3.59E-06 | 3.59E-05 | 1.97E-05 | 1.78E-06 | 2.57E-06 | 1.60E-05 | 1.60E-05 | 7.91E-06 |
| 2369 | 257562.77 | 4085646.87 | 0.000039834 | 5.76E-04 | 4.25E-04 | 4.25E-04 | 2.37E-04 | 6.05E-06 | 8.78E-05 | 6.63E-06 | 6.63E-05 | 3.85E-05 | 3.28E-06 | 4.75E-06 | 2.95E-05 | 2.95E-05 | 1.46E-06 |
| 2370 | 257540.16 | 4085638.63 | 0.000040564 | 5.87E-04 | 4.32E-04 | 4.32E-04 | 2.41E-04 | 6.16E-06 | 8.94E-05 | 6.75E-05 | 6.75E-05 | 3.71E-05 | 3.34E-06 | 4.84E-05 | 3.00E-05 | 3.00E-05 | 1.49E-05 |
| 2371 | 257517.59 | 4085630.38 | 0.000041209 | 5.96E-04 | 4.39E-04 | 4.39E-04 | 2.45E-04 | 6.25E-06 | 9.08E-05 | 6.86E-05 | 6.86E-05 | 3.72E-05 | 3.40E-05 | 4.91E-05 | 3.05E-05 | 3.05E-05 | 1.51E-05 |
| 2372 | 257495.03 | 4085622.14 | 0.000041756 | 6.04E-04 | 4.45E-04 | 4.45E-04 | 2.48E-04 | 6.34E-05 | 9.20E-05 | 6.95E-05 | 6.95E-05 | 3.82E-05 | 3.44E-06 | 4.98E-05 | 3.09E-05 | 3.09E-05 | 1.53E-05 |
| 2373 | 257472.47 | 4085613.9 | 0.000042199 | 6.10E-04 | 4.50E-04 | 4.50E-04 | 2.51E-04 | 6.40E-06 | 9.30E-05 | 7.02E-05 | 7.02E-05 | 3.86E-05 | 3.48E-06 | 5.03E-05 | 3.13E-05 | 3.13E-05 | 1.55E-05 |
| 2374 | 257449.9 | 4085605.65 | 0.000042539 | 6.15E-04 | 4.53E-04 | 4.53E-04 | 2.53E-04 | 6.46E-06 | 9.37E-05 | 7.08E-05 | 7.08E-05 | 3.89E-05 | 3.51E-06 | 5.07E-05 | 3.15E-05 | 3.15E-05 | 1.56E-05 |
| 2375 | 257427.34 | 4085597.41 | 0.000042914 | 6.21E-04 | 4.57E-04 | 4.57E-04 | 2.55E-04 | 6.51E-06 | 9.46E-05 | 7.14E-05 | 7.14E-05 | 3.93E-05 | 3.54E-05 | 5.12E-05 | 3.18E-05 | 3.18E-05 | 1.57E-05 |
| 2376 | 257404.77 | 4085589.17 | 0.000043058 | 6.23E-04 | 4.59E-04 | 4.59E-04 | 2.56E-04 | 6.53E-06 | 9.49E-05 | 7.17E-05 | 7.17E-05 | 3.94E-05 | 3.55E-06 | 5.12E-05 | 3.19E-05 | 3.19E-05 | 1.58E-05 |
| 2377 | 257382.21 | 4085580.93 | 0.000043023 | 6.22E-04 | 4.59E-04 | 4.59E-04 | 2.56E-04 | 6.53E-06 | 9.46E-05 | 7.16E-06 | 7.16E-05 | 3.94E-05 | 3.55E-06 | 5.12E-05 | 3.19E-05 | 3.19E-05 | 1.58E-05 |
| 2378 | 257359.65 | 4085572.68 | 0.000042785 | 6.19E-04 | 4.56E-04 | 4.56E-04 | 2.54E-04 | 6.49E-05 | 9.43E-05 | 7.12E-05 | 7.12E-05 | 3.92E-05 | 3.53E-06 | 5.10E-06 | 3.17E-05 | 3.17E-05 | 1.57E-05 |
| 2379 | 257337.08 | 4085564.44 | 0.000042308 | 6.12E-04 | 4.51E-04 | 4.51E-04 | 2.51E-04 | 6.42E-06 | 9.32E-05 | 7.04E-05 | 7.04E-06 | 3.87E-05 | 3.49E-06 | 5.04E-05 | 3.13E-05 | 3.13E-05 | 1.55E-05 |
| 2380 | 257314.52 | 4085556.2 | 0.000041605 | 6.02E-04 | 4.44E-04 | 4.44E-04 | 2.47E-04 | 6.31E-05 | 9.17E-06 | 6.93E-05 | 6.93E-05 | 3.81E-05 | 3.43E-06 | 4.96E-06 | 3.08E-05 | 3.08E-06 | 1.53E-05 |
| 2381 | 257291.96 | 4085547.96 | 0.000040724 | 5.89E-04 | 4.34E-04 | 4.34E-04 | 2.42E-04 | 6.18E-06 | 8.97E-05 | 6.78E-05 | 6.78E-06 | 3.73E-05 | 3.36E-06 | 4.86E-06 | 3.02E-05 | 3.02E-05 | 1.49E-06 |
| 2382 | 257769.39 | 4085539.71 | 0.000039716 | 5.74E-04 | 4.23E-04 | 4.23E-04 | 2.36E-04 | 6.03E-06 | 8.75E-06 | 6.61E-05 | 6.61E-05 | 3.63E-06 | 3.27E-06 | 4.73E-06 | 2.94E-06 | 2.94E-06 | 1.46E-06 |
| 2383 | 257746.63 | 4085531.47 | 0.000038625 | 5.59E-04 | 4.12E-04 | 4.12E-04 | 2.30E-04 | 5.86E-06 | 8.51E-05 | 6.43E-06 | 6.43E-06 | 3.53E-05 | 3.18E-06 | 4.61E-06 | 2.86E-06 | 2.86E-06 | 1.42E-06 |
| 2384 | 257714.22 | 4085501.41 | 0.00003772 | 5.46E-04 | 4.02E-04 | 4.02E-04 | 2.24E-04 | 5.72E-06 | 8.31E-06 | 6.28E-06 | 6.28E-06 | 3.45E-05 | 3.11E-06 | 4.50E-05 | 2.79E-05 | 2.79E-05 | 1.38E-05 |
| 2385 | 257204.17 | 4085479.59 | 0.000037744 | 5.46E-04 | 4.02E-04 | 4.02E-04 | 2.24E-04 | 5.73E-06 | 8.32E-05 | 6.28E-05 | 6.28E-05 | 3.45E-05 | 3.11E-05 | 4.50E-06 | 2.80E-05 | 2.80E-05 | 1.38E-05 |
| 2386 | 257194.12 | 4085457.72 | 0.00003749 | 5.42E-04 | 4.00E-04 | 4.00E-04 | 2.12E-04 | 5.69E-05 | 8.26E-05 | 6.24E-05 | 6.24E-05 | 3.43E-05 | 3.09E-06 | 4.47E-06 | 2.78E-05 | 2.78E-06 | 1.37E-06 |
| 2387 | 257164.08 | 4085435.95 | 0.0000369 | 5.34E-04 | 3.93E-04 | 3.93E-04 | 2.19E-04 | 5.60E-06 | 6.13E-05 | 6.14E-06 | 6.14E-05 | 3.38E-05 | 3.04E-06 | 4.40E-06 | 2.73E-05 | 2.73E-05 | 1.35E-05 |
| 2388 | 257174.03 | 4085414.13 | 0.000035929 | 5.20E-04 | 3.83E-04 | 3.83E-04 | 2.14E-04 | 5.45E-06 | 7.92E-05 | 5.98E-05 | 5.98E-06 | 3.29E-05 | 2.96E-06 | 4.28E-05 | 2.66E-05 | 2.66E-06 | 1.32E-05 |
| 2389 | 257163.98 | 4085392.31 | 0.000034562 | 5.00E-04 | 3.68E-04 | 3.68E-04 | 2.05E-04 | 5.25E-06 | 7.62E-05 | 5.75E-05 | 5.75E-05 | 3.16E-06 | 2.85E-06 | 4.12E-05 | 2.56E-05 | 2.56E-05 | 1.27E-05 |
| 2390 | 257153.93 | 4085370.49 | 0.000032814 | 4.75E-04 | 3.50E-04 | 3.50E-04 | 1.95E-04 | 4.98E-06 | 7.23E-06 | 5.46E-05 | 5.46E-05 | 3.00E-05 | 2.70E-05 | 3.91E-05 | 2.43E-05 | 2.43E-06 | 1.20E-05 |
| 1291 | 257143.88 | 4085348.67 | 0.000030747 | 4.45E-04 | 3.28E-04 | 3.28E-04 | 1.83E-04 | 4.67E-06 | 6.72E-05 | 5.12E-05 | 5.12E-06 | 2.81E-05 | 2.53E-06 | 3.67E-05 | 2.28E-05 | 2.28E-06 | 1.13E-05 |
| 2392 | 257133.84 | 4085526.85 | 0.000028464 | 4.12E-04 | 3.03E-04 | 3.03E-04 | 1.69E-04 | 4.32E-06 | 6.27E-05 | 4.74E-05 | 4.74E-05 | 2.60E-05 | 2.35E-06 | 3.39E-05 | 2.11E-05 | 2.11E-06 | 1.04E-05 |
| 2393 | 257123.79 | 4085305.03 | 0.000026101 | 3.78E-04 | 2.78E-04 | 2.78E-04 | 1.55E-04 | 3.96E-06 | 5.75E-06 | 4.34E-05 | 4.34E-05 | 2.39E-05 | 2.15E-06 | 3.11E-06 | 1.93E-06 | 1.93E-05 | 9.57E-06 |
| 2394 | 257113.74 | 4085283.21 | 0.000023786 | 3.44E-04 | 2.54E-04 | 2.64E-04 | 1.41E-04 | 3.61E-06 | 5.24E-06 | 3.96E-06 | 3.96E-06 | 2.18E-05 | 1.96E-06 | 2.84E-05 | 1.76E-06 | 1.76E-06 | 6.72E-06 |
| 2395 | 257103.69 | 4085261.39 | 0.000021624 | 3.13E-04 | 2.31E-04 | 2.31E-04 | 1.29E-04 | 3.28E-05 | 4.76E-05 | 3.60E-05 | 3.60E-05 | 1.98E-05 | 1.78E-05 | 2.58E-05 | 1.60E-05 | 1.60E-05 | 7.93E-06 |
| 2396 | 257093.85 | 4085239.57 | 0.000019684 | 2.85E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 2.99E-05 | 4.34E-05 | 3.28E-05 | 3.28E-05 | 1.80E-05 | 1.62E-05 | 2.35E-05 | 1.46E-06 | 1.46E-05 | 7.22E-05 |
| 2397 | 257083.6 | 4085217.75 | 0.000018022 | 2.61E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.74E-06 | 3.97E-05 | 3.00E-05 | 3.00E-05 | 1.65E-05 | 1.49E-05 | 2.15E-05 | 1.33E-05 | 1.33E-05 | 6.61E-05 |
| 2398 | 257073.55 | 4085195.93 | 0.000016635 | 2.41E-04 | 1.77E-04 | 1.77E-04 | 9.89E-05 | 2.52E-05 | 3.67E-05 | 2.77E-05 | 2.77E-06 | 1.52E-05 | 1.37E-05 | 1.98E-05 | 1.23E-05 | 1.23E-05 | 6.10E-06 |
| 2399 | 257585.28 | 4085655.11 | 0.000039025 | 5.64E-04 | 4.16E-04 | 4.16E-04 | 2.32E-04 | 5.92E-05 | 6.60E-05 | 6.50E-05 | 6.50E-05 | 3.57E-05 | 3.22E-06 | 4.65E-05 | 2.89E-06 | 2.89E-05 | 1.43E-05 |
| 2400 | 257609.57 | 4085654.03 | 0.000039207 | 5.67E-04 | 4.18E-04 | 4.18E-04 | 2.33E-04 | 5.95E-05 | 6.64E-05 | 6.53E-05 | 6.53E-05 | 3.59E-05 | 3.23E-06 | 4.67E-05 | 2.90E-06 | 2.90E-05 | 1.44E-06 |
| 2401 | 257633.85 | 4085652.96 | 0.000039304 | 5.68E-04 | 4.19E-04 | 4.19E-04 | 2.34E-04 | 5.97E-06 | 8.66E-05 | 6.54E-05 | 6.54E-05 | 3.60E-06 | 3.24E-06 | 4.69E-05 | 2.91E-06 | 2.91E-06 | 1.44E-05 |
| 2402 | 257658.13 | 4085851.88 | 0.000039312 | 5.69E-04 | 4.19E-04 | 4.19E-04 | 2.34E-04 | 5.97E-06 | 8.66E-06 | 6.54E-05 | 6.54E-05 | 3.60E-06 | 3.24E-06 | 4.69E-05 | 2.91E-05 | 2.91E-05 | 1.44E-05 |
| 2403 | 257682.41 | 4085650.81 | 0.000039228 | 5.67E-04 | 4.18E-04 | 4.18E-04 | 2.33E-04 | 5.95E-06 | 8.64E-06 | 6.53E-05 | 6.53E-05 | 3.59E-05 | 3.12E-06 | 4.68E-05 | 2.91E-05 | 2.91E-05 | 1.44E-06 |
| 2404 | 257706.69 | 4085649.73 | 0.000039062 | 5.65E-04 | 4.16E-04 | 4.16E-04 | 2.32E-04 | 5.93E-06 | 8.61E-05 | 6.50E-05 | 6.50E-05 | 3.57E-05 | 3.22E-06 | 4.66E-05 | 2.89E-05 | 2.89E-05 | 1.43E-05 |
| 2405 | 257230.97 | 4085648.66 | 0.000038818 | 5.61E-04 | 4.14E-04 | 4.14E-04 | 2.31E-04 | 5.89E-06 | 8.55E-05 | 6.46E-05 | 6.46E-05 | 3.55E-05 | 3.20E-06 | 4.63E-05 | 2.87E-05 | 2.87E-05 | 1.42E-05 |
| 2406 | 257755.26 | 4085647.58 | 0.000038519 | 5.57E-04 | 4.11E-04 | 4.11E-04 | 2.29E-04 | 5.85E-06 | 8.49E-05 | 6.41E-06 | 6.41E-05 | 3.52E-06 | 3.18E-06 | 4.59E-05 | 2.85E-05 | 2.85E-06 | 1.41E-05 |
| 2407 | 257779.54 | 4085646.51 | 0.000038177 | 5.52E-04 | 4.07E-04 | 4.07E-04 | 2.27E-04 | 5.79E-06 | 8.41E-05 | 6.35E-05 | 6.35E-06 | 3.49E-06 | 3.15E-06 | 4.55E-05 | 2.63E-06 | 2.83E-05 | 1.40E-05 |
| 2408 | 257803.82 | 4085645.43 | 0.000037802 | 5.47E-04 | 4.03E-04 | 4.03E-04 | 2.25E-04 | 5.74E-06 | 8.33E-06 | 6.29E-05 | 6.29E-06 | 3.46E-05 | 3.12E-06 | 4.51E-05 | 2.80E-06 | 2.80E-05 | 1.39E-05 |
| 2409 | 257828.1 | 4085644.38 | 0.000037392 | 5.41E-04 | 3.99E-04 | 3.99E-04 | 2.22E-04 | 5.67E-06 | 8.24E-05 | 6.22E-06 | 6.22E-05 | 3.42E-05 | 3.08E-06 | 4.46E-05 | 2.72E-05 | 2.77E-05 | 1.37E-05 |
| 2410 | 257852.38 | 4085643.28 | 0.000036933 | 5.34E-04 | 3.94E-04 | 3.94E-04 | 2.20E-04 | 5.61E-06 | 8.14E-05 | 6.15E-06 | 6.15E-06 | 3.38E-05 | 3.04E-06 | 4.40E-05 | 2.74E-05 | 2.74E-05 | 1.35E-05 |
| 2411 | 257876.67 | 4085642.2 | 0.000036333 | 5.25E-04 | 3.87E-04 | 3.87E-04 | 2.16E-04 | 5.51E-06 | 8.01E-05 | 6.05E-05 | 6.05E-05 | 3.32E-05 | 2.99E-06 | 4.33E-05 | 2.69E-05 | 2.69E-05 | 1.33E-05 |
| 2412 | 257900.95 | 4085641.13 | 0.000035689 | 5.16E-04 | 3.80E-04 | 3.80E-04 | 2.12E-04 | 5.42E-06 | 7.86E-05 | 5.94E-06 | 5.94E-06 | 3.27E-05 | 2.94E-06 | 4.25E-06 | 2.64E-06 | 2.64E-06 | 1.31E-06 |
| 2413 | 257925.23 | 4085640.05 | 0.000035011 | 5.06E-04 | 3.73E-04 | 3.73E-04 | 2.08E-04 | 5.31E-06 | 7.71E-06 | 5.83E-05 | 5.83E-05 | 3.20E-05 | 2.89E-06 | 4.17E-05 | 2.59E-06 | 2.59E-05 | 1.28E-06 |
| 2414 | 257949.51 | 4085638.98 | 0.000034234 | 4.95E-04 | 3.65E-04 | 3.65E-04 | 2.03E-04 | 5.20E-06 | 7.54E-05 | 5.70E-06 | 5.70E-06 | 3.13E-05 | 2.82E-06 | 4.08E-05 | 2.54E-05 | 2.54E-05 | 1.25E-05 |
| 2415 | 257973.79 | 4085627.9 | 0.000033372 | 4.83E-04 | 3.56E-04 | 3.56E-04 | 1.98E-04 | 5.06E-06 | 7.35E-06 | 5.55E-06 | 5.55E-05 | 3.05E-05 | 2.75E-06 | 3.98E-05 | 2.47E-05 | 2.47E-05 | 1.22E-05 |
| 2416 | 257998.07 | 4085636.83 | 0.000032472 | 4.70E-04 | 3.46E-04 | 3.46E-04 | 1.93E-04 | 4.93E-05 | 7.15E-05 | 5.40E-05 | 5.40E-05 | 2.97E-05 | 2.68E-05 | 3.87E-05 | 2.40E-05 | 2.40E-05 | 1.19E-05 |
| 2417 | 258022.36 | 4085635.75 | 0.000031472 | 4.55E-04 | 3.36E-04 | 3.36E-04 | 1.87E-04 | 4.78E-05 | 6.93E-05 | 5.24E-05 | 5.24E-05 | 2.88E-05 | 2.59E-06 | 3.75E-05 | 2.33E-05 | 2.33E-05 | 1.15E-06 |
| 2418 | 258046.64 | 4085634.65 | 0.000030407 | 4.40E-04 | 3.24E-04 | 3.24E-04 | 1.81E-04 | 4.61E-06 | 6.70E-05 | 5.06E-05 | 5.06E-05 | 2.78E-05 | 2.51E-06 | 3.63E-05 | 2.25E-05 | 2.25E-05 | 1.11E-05 |
| 2419 | 258070.92 | 4085633.6 | 0.000029325 | 4.24E-04 | 3.13E-04 | 3.12E-04 | 1.74E-04 | 4.45E-06 | 6.46E-05 | 4.88E-05 | 4.88E-05 | 2.68E-05 | 2.42E-06 | 3.50E-05 | 2.17E-05 | 2.17E-05 | 1.07E-06 |
| 2420 | 258095.2 | 4085632.53 | 0.000028249 | 4.09E-04 | 3.01E-04 | 3.01E-04 | 1.68E-04 | 4.29E-06 | 6.22E-05 | 4.70E-05 | 4.70E-05 | 2.59E-05 | 2.33E-06 | 3.37E-05 | 2.09E-05 | 2.09E-05 | 1.04E-06 |
| 2421 | 258119.48 | 4085631.45 | 0.000027202 | 3.93E-04 | 2.90E-04 | 2.90E-04 | 1.62E-04 | 4.13E-06 | 5.99E-05 | 4.53E-05 | 4.53E-06 | 2.49E-06 | 2.24E-06 | 3.24E-06 | 2.01E-05 | 2.01E-05 | 9.97E-06 |
| 2422 | 258143.72 | 4085530.37 | 0.000026181 | 3.79E-04 | 2.79E-04 | 2.79E-04 | 1.56E-04 | 3.97E-06 | 5.77E-05 | 4.36E-05 | 4.36E-05 | 2.40E-06 | 2.16E-06 | 3.12E-05 | 1.94E-06 | 1.94E-06 | 9.60E-06 |
| 2423 | 258168.05 | 4085629.3 | 0.000025172 | 3.64E-04 | 2.68E-04 | 2.68E-04 | 1.50E-04 | 3.82E-06 | 5.55E-05 | 4.19E-06 | 4.19E-06 | 2.30E-05 | 2.08E-06 | 3.00E-05 | 1.86E-05 | 1.86E-05 | 9.23E-05 |
| 2424 | 258192.33 | 4085628.22 | 0.000024147 | 3.49E-04 | 2.57E-04 | 2.57E-04 | 1.44E-04 | 3.66E-06 | 5.32E-06 | 4.02E-05 | 4.02E-05 | 2.21E-05 | 1.99E-05 | 2.88E-05 | 1.79E-05 | 1.79E-05 | 8.85E-06 |
| 2425 | 258216.61 | 4085627.15 | 0.000022983 | 3.32E-04 | 2.45E-04 | 2.45E-04 | 1.37E-04 | 3.49E-05 | 5.06E-05 | 3.83E-05 | 3.83E-05 | 2.10E-05 | 1.89E-05 | 2.74E-05 | 1.70E-05 | 1.70E-05 | 8.42E-05 |
| 2426 | 258240.89 | 4085626.07 | 0.000021952 | 3.18E-04 | 2.34E-04 | 2.34E-04 | 1.30E-04 | 3.33E-05 | 4.84E-05 | 3.65E-05 | 3.65E-05 | 2.01E-05 | 1.81E-05 | 2.62E-05 | 1.63E-05 | 1.63E-05 | 8.05E-06 |
| 2427 | 258265.17 | 4085625 | 0.000020932 | 3.03E-04 | 2.23E-04 | 2.23E-04 | 1.24E-04 | 3.18E-05 | 4.61E-06 | 3.48E-05 | 3.46E-06 | 1.92E-05 | 1.73E-06 | 2.50E-06 | 1.55E-05 | 1.55E-05 | 7.67E-06 |
| 2428 | 258289.46 | 4085623.92 | 0.000019923 | 2.88E-04 | 2.12E-04 | 2.12E-04 | 1.28E-04 | 3.02E-06 | 4.39E-05 | 3.32E-05 | 3.32E-05 | 1.82E-05 | 1.64E-06 | 2.38E-05 | 1.48E-05 | 1.46E-05 | 7.30E-06 |
| 2429 | 258313.74 | 4085622.85 | 0.000018938 | 2.74E-04 | 2.02E-04 | 2.02E-04 | 1.13E-04 | 2.87E-06 | 4.17E-06 | 3.15E-05 | 3.15E-05 | 1.73E-05 | 1.56E-06 | 2.26E-05 | 1.40E-05 | 1.40E-05 | 6.94E-06 |
| 2430 | 258338.02 | 4085621.77 | 0.000017985 | 2.60E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.73E-06 | 3.96E-05 | 2.99E-05 | 2.99E-06 | 1.65E-06 | 1.48E-06 | 2.14E-06 | 1.33E-06 | 1.33E-05 | 6.59E-06 |
| 2431 | 258362.3 | 4085620.7 | 0.000017067 | 2.47E-04 | 1.82E-04 | 1.82E-04 | 1.01E-04 | 2.59E-06 | 3.76E-06 | 2.84E-05 | 2.84E-05 | 1.56E-06 | 1.41E-06 | 2.03E-06 | 1.26E-06 | 1.26E-06 | 6.26E-05 |
| 2432 | 258386.58 | 4085619.62 | 0.000016253 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.66E-05 | 2.47E-06 | 3.58E-05 | 2.71E-05 | 2.71E-06 | 1.49E-05 | 1.34E-05 | 1.94E-05 | 1.20E-05 | 1.20E-05 | 5.96E-05 |
| 2433 | 257566.91 | 4085746.68 | 0.0000304 | 4.40E-04 | 3.24E-04 | 3.24E-04 | 1.81E-04 | 4.61E-06 | 6.70E-06 | 5.06E-05 | 5.06E-05 | 2.78E-05 | 2.51E-06 | 3.62E-05 | 2.25E-05 | 2.26E-05 | 1.11E-05 |
| 2434 | 257544.11 | 4085738.35 | 0.000030995 | 4.48E-04 | 3.30E-04 | 3.30E-04 | 1.84E-04 | 4.70E-06 | 6.83E-05 | 5.16E-05 | 5.16E-05 | 2.84E-05 | 2.55E-06 | 3.70E-05 | 2.30E-05 | 2.30E-06 | 1.14E-05 |
| 2435 | 257521.3 | 4085730.02 | 0.000031552 | 4.56E-04 | 3.36E-04 | 3.36E-04 | 1.88E-04 | 4.79E-06 | 6.95E-05 | 5.25E-05 | 5.25E-06 | 2.89E-05 | 2.60E-05 | 3.76E-05 | 2.34E-05 | 2.34E-05 | 1.16E-05 |
| 2436 | 257498.5 | 4085721.69 | 0.000032068 | 4.64E-04 | 3.42E-04 | 3.42E-04 | 1.91E-04 | 4.87E-06 | 7.07E-05 | 5.34E-05 | 5.34E-06 | 2.93E-05 | 2.64E-06 | 3.82E-05 | 2.37E-06 | 2.37E-06 | 1.18E-06 |
| 2437 | 257475.7 | 4085712.37 | 0.000032533 | 4.71E-04 | 3.47E-04 | 3.47E-04 | 1.93E-04 | 4.94E-05 | 7.17E-06 | 5.42E-05 | 5.42E-05 | 2.98E-05 | 2.68E-06 | 3.88E-05 | 2.41E-05 | 2.41E-05 | 1.19E-05 |
| 2438 | 257452.9 | 4085705.04 | 0.000032945 | 4.77E-04 | 3.51E-04 | 3.51E-04 | 1.96E-04 | 5.00E-06 | 7.26E-05 | 5.48E-05 | 5.48E-05 | 3.01E-05 | 2.72E-06 | 3.93E-05 | 2

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2220 | 257363.57 | 4085273.96 | 0.000075523 | 1.09E-03 | 8.05E-04 | 8.05E-04 | 4.49E-04 | 1.25E-05 | 1.66E-04 | 1.26E-04 | 1.26E-04 | 6.91E-05 | 6.23E-06 | 9.00E-05 | 5.59E-05 | 5.59E-05 | 2.77E-05 |
| 2221 | 257353.52 | 4085252.14 | 0.000071509 | 1.03E-03 | 7.62E-04 | 7.62E-04 | 4.25E-04 | 1.09E-05 | 1.58E-04 | 1.19E-04 | 1.19E-04 | 6.54E-05 | 5.89E-06 | 8.53E-05 | 5.30E-05 | 5.30E-05 | 2.62E-05 |
| 2222 | 257343.47 | 4085230.32 | 0.000066104 | 9.56E-04 | 7.05E-04 | 7.05E-04 | 3.93E-04 | 1.00E-05 | 1.46E-04 | 1.10E-04 | 1.10E-04 | 6.05E-05 | 5.45E-06 | 7.88E-05 | 4.90E-05 | 4.90E-05 | 2.42E-05 |
| 2223 | 257333.43 | 4085208.5 | 0.000059845 | 8.66E-04 | 6.38E-04 | 6.38E-04 | 3.56E-04 | 9.08E-06 | 1.32E-04 | 9.96E-05 | 9.96E-05 | 5.48E-05 | 4.93E-06 | 7.13E-05 | 4.43E-05 | 4.43E-05 | 2.19E-05 |
| 2224 | 257323.38 | 4085186.68 | 0.000053289 | 7.71E-04 | 5.66E-04 | 5.68E-04 | 3.17E-04 | 8.09E-06 | 1.17E-04 | 8.87E-05 | 8.87E-05 | 4.88E-05 | 4.39E-06 | 6.35E-05 | 3.95E-05 | 3.95E-05 | 1.95E-05 |
| 2225 | 257574.22 | 4085405.36 | 0.000094113 | 1.36E-03 | 1.00E-03 | 1.00E-03 | 5.59E-04 | 1.43E-05 | 2.07E-04 | 1.57E-04 | 1.57E-04 | 8.61E-05 | 7.76E-06 | 1.12E-04 | 6.97E-05 | 6.97E-05 | 3.45E-05 |
| 2226 | 257598.5 | 4085404.28 | 0.000096863 | 1.40E-03 | 1.03E-03 | 1.03E-03 | 5.76E-04 | 1.47E-05 | 2.13E-04 | 1.61E-04 | 1.61E-04 | 8.86E-05 | 7.98E-06 | 1.25E-04 | 7.17E-05 | 7.17E-05 | 3.55E-05 |
| 2227 | 257622.29 | 4085403.2 | 0.00009915 | 1.43E-03 | 1.06E-03 | 1.05E-03 | 5.89E-04 | 1.50E-05 | 2.18E-04 | 1.65E-04 | 1.65E-04 | 9.07E-05 | 8.17E-06 | 1.18E-04 | 7.34E-05 | 7.34E-05 | 3.63E-05 |
| 2228 | 257647.07 | 4085402.13 | 0.00010098 | 1.46E-03 | 1.08E-03 | 1.08E-03 | 6.00E-04 | 1.53E-05 | 2.22E-04 | 1.68E-04 | 1.68E-04 | 9.24E-05 | 6.32E-06 | 1.20E-04 | 7.48E-06 | 7.48E-06 | 3.70E-05 |
| 2229 | 257671.35 | 4085401.05 | 0.00010242 | 1.48E-03 | 1.09E-03 | 1.09E-03 | 6.09E-04 | 1.55E-05 | 2.28E-04 | 1.70E-04 | 1.70E-04 | 9.37E-05 | 8.44E-06 | 1.22E-04 | 7.59E-05 | 7.59E-05 | 3.75E-05 |
| 2230 | 257695.63 | 4085399.98 | 0.00010346 | 1.50E-03 | 1.10E-03 | 1.10E-03 | 6.15E-04 | 1.57E-05 | 2.28E-04 | 1.72E-04 | 1.72E-04 | 9.47E-05 | 6.53E-06 | 1.23E-04 | 7.66E-05 | 7.66E-05 | 3.79E-05 |
| 2231 | 257719.91 | 4085398.9 | 0.00010377 | 1.50E-03 | 1.11E-03 | 1.11E-03 | 6.17E-04 | 1.57E-05 | 2.29E-04 | 1.73E-04 | 1.73E-04 | 9.50E-05 | 8.55E-06 | 1.24E-04 | 7.68E-05 | 7.68E-05 | 3.80E-06 |
| 2232 | 257244.19 | 4085397.83 | 0.00010433 | 1.51E-03 | 1.11E-03 | 1.11E-03 | 6.20E-04 | 1.58E-05 | 2.30E-04 | 1.74E-04 | 1.74E-04 | 9.55E-05 | 6.60E-06 | 1.24E-04 | 7.73E-05 | 7.73E-05 | 3.82E-05 |
| 2233 | 257268.48 | 4085396.75 | 0.00010458 | 1.51E-03 | 1.11E-03 | 1.11E-03 | 6.22E-04 | 1.59E-05 | 2.30E-04 | 1.74E-04 | 1.74E-04 | 9.57E-05 | 6.62E-06 | 1.25E-04 | 7.74E-05 | 7.74E-05 | 3.83E-05 |
| 2234 | 257792.76 | 4085395.68 | 0.0001045 | 1.51E-03 | 1.11E-03 | 1.11E-03 | 6.21E-04 | 1.59E-05 | 2.30E-04 | 1.74E-04 | 1.74E-04 | 9.56E-05 | 8.61E-06 | 1.25E-04 | 7.74E-05 | 7.74E-05 | 3.83E-05 |
| 2235 | 257817.04 | 4085394.6 | 0.00010412 | 1.51E-03 | 1.11E-03 | 1.11E-03 | 6.19E-04 | 1.58E-05 | 2.29E-04 | 1.73E-04 | 1.73E-04 | 9.53E-05 | 8.58E-06 | 1.24E-04 | 7.71E-05 | 7.71E-05 | 3.82E-05 |
| 2236 | 257841.32 | 4085393.53 | 0.00010346 | 1.50E-03 | 1.10E-03 | 1.10E-03 | 6.15E-04 | 1.57E-06 | 2.28E-04 | 1.72E-04 | 1.72E-04 | 9.47E-05 | 8.53E-06 | 1.23E-04 | 7.66E-05 | 7.66E-05 | 3.79E-05 |
| 2237 | 257865.6 | 4085392.45 | 0.00010254 | 1.48E-03 | 1.09E-03 | 1.09E-03 | 6.09E-04 | 1.58E-06 | 2.26E-04 | 1.71E-04 | 1.71E-04 | 9.38E-05 | 8.45E-06 | 1.22E-04 | 7.59E-05 | 7.59E-05 | 3.76E-05 |
| 2238 | 257889.89 | 4085391.37 | 0.00010137 | 1.47E-03 | 1.08E-03 | 1.08E-03 | 6.03E-04 | 1.54E-06 | 2.23E-04 | 1.69E-04 | 1.69E-04 | 9.28E-05 | 8.36E-06 | 1.21E-04 | 7.51E-05 | 7.51E-05 | 3.72E-05 |
| 2239 | 252914.17 | 4085390.3 | 0.00009965 | 1.45E-03 | 1.07E-03 | 1.07E-03 | 5.94E-04 | 1.52E-05 | 2.20E-04 | 1.66E-04 | 1.66E-04 | 9.15E-05 | 6.24E-06 | 1.19E-04 | 7.40E-05 | 7.40E-05 | 3.66E-06 |
| 2240 | 257938.45 | 4085389.23 | 0.00009834 | 1.42E-03 | 1.05E-03 | 1.05E-03 | 5.84E-04 | 1.49E-05 | 2.17E-04 | 1.64E-04 | 1.64E-04 | 9.00E-05 | 6.11E-06 | 1.17E-04 | 7.28E-06 | 7.28E-05 | 3.60E-05 |
| 2241 | 257962.73 | 4085388.25 | 0.00009694 | 1.40E-03 | 1.03E-03 | 1.03E-03 | 5.74E-04 | 1.46E-06 | 2.13E-04 | 1.61E-04 | 1.61E-04 | 8.83E-05 | 7.95E-06 | 1.25E-04 | 7.15E-05 | 7.15E-05 | 3.54E-06 |
| 2242 | 257987.01 | 4085387.07 | 0.00009435 | 1.37E-03 | 1.01E-03 | 1.01E-03 | 5.61E-04 | 1.43E-05 | 2.08E-04 | 1.57E-04 | 1.57E-04 | 6.64E-05 | 7.78E-06 | 1.13E-04 | 6.99E-05 | 6.99E-05 | 3.46E-06 |
| 2243 | 258011.29 | 4085386 | 0.00009215 | 1.33E-03 | 9.62E-04 | 9.82E-04 | 5.48E-04 | 1.40E-06 | 2.03E-04 | 1.53E-04 | 1.53E-04 | 8.43E-05 | 7.60E-06 | 1.10E-04 | 6.82E-05 | 6.82E-05 | 3.38E-05 |
| 2244 | 258035.58 | 4085384.92 | 0.00008965 | 1.30E-03 | 9.56E-04 | 9.56E-04 | 5.33E-04 | 1.36E-05 | 1.98E-04 | 1.49E-04 | 1.49E-04 | 8.20E-05 | 7.39E-06 | 1.07E-04 | 6.64E-05 | 6.64E-05 | 3.29E-05 |
| 2245 | 258059.86 | 4085383.85 | 0.00008691 | 1.26E-03 | 9.27E-04 | 9.27E-04 | 5.17E-04 | 1.32E-06 | 1.91E-04 | 1.45E-04 | 1.45E-04 | 7.95E-05 | 7.16E-06 | 1.04E-04 | 6.44E-05 | 6.44E-05 | 3.19E-05 |
| 2246 | 258084.14 | 4085382.72 | 0.00008925 | 1.21E-03 | 6.95E-04 | 8.95E-04 | 4.99E-04 | 1.27E-05 | 1.85E-04 | 1.40E-04 | 1.40E-04 | 7.68E-05 | 6.92E-06 | 1.00E-04 | 6.22E-05 | 6.22E-05 | 3.08E-05 |
| 2247 | 258108.42 | 4085381.7 | 0.00008659 | 1.17E-03 | 8.60E-04 | 8.60E-04 | 4.29E-04 | 1.22E-05 | 1.78E-04 | 1.34E-04 | 1.34E-04 | 7.38E-05 | 6.65E-06 | 9.62E-05 | 5.97E-05 | 5.97E-05 | 2.96E-05 |
| 2248 | 258132.7 | 4085380.62 | 0.00007716 | 1.12E-03 | 8.22E-04 | 8.22E-04 | 4.58E-04 | 1.17E-05 | 1.70E-04 | 1.28E-04 | 1.28E-04 | 7.06E-05 | 6.36E-06 | 9.19E-05 | 5.71E-05 | 5.71E-05 | 2.83E-05 |
| 2249 | 258156.99 | 4085379.54 | 0.00007306 | 1.06E-03 | 7.81E-04 | 7.81E-04 | 4.36E-04 | 1.11E-05 | 1.62E-04 | 1.22E-04 | 1.22E-04 | 6.71E-05 | 6.04E-06 | 8.74E-05 | 5.43E-05 | 5.43E-05 | 2.69E-05 |
| 2250 | 258181.27 | 4085378.47 | 0.00006986 | 1.00E-03 | 7.39E-04 | 7.39E-04 | 4.12E-04 | 1.05E-05 | 1.53E-04 | 1.15E-04 | 1.15E-04 | 6.34E-05 | 5.71E-05 | 8.26E-05 | 5.13E-05 | 5.13E-05 | 2.54E-05 |
| 2251 | 258205.55 | 4085377.39 | 0.00006515 | 9.42E-04 | 6.95E-04 | 6.95E-04 | 3.87E-04 | 9.89E-06 | 1.44E-04 | 1.08E-04 | 1.08E-04 | 5.96E-05 | 5.37E-06 | 7.72E-06 | 4.83E-05 | 4.83E-05 | 2.39E-05 |
| 2252 | 258229.83 | 4085376.32 | 0.00006102 | 8.83E-04 | 6.51E-04 | 6.51E-04 | 3.63E-04 | 9.26E-06 | 1.34E-04 | 1.02E-04 | 1.02E-04 | 5.58E-05 | 5.03E-06 | 7.28E-05 | 4.52E-05 | 4.52E-05 | 2.24E-05 |
| 2253 | 258254.11 | 4085375.24 | 0.00005953 | 8.24E-04 | 6.07E-04 | 6.07E-04 | 3.38E-04 | 8.64E-06 | 1.25E-04 | 9.48E-05 | 9.68E-05 | 5.21E-05 | 4.69E-06 | 6.79E-05 | 4.23E-05 | 4.22E-05 | 2.09E-06 |
| 2254 | 258278.39 | 4085374.17 | 0.00005293 | 7.66E-04 | 5.64E-04 | 5.64E-04 | 3.15E-04 | 8.03E-06 | 1.17E-04 | 8.81E-05 | 8.81E-05 | 4.84E-05 | 4.36E-06 | 6.31E-05 | 3.92E-05 | 3.92E-05 | 1.94E-05 |
| 2255 | 258302.68 | 4085373.09 | 0.00004843 | 7.08E-04 | 5.22E-04 | 5.22E-04 | 2.91E-04 | 7.43E-06 | 1.08E-04 | 8.15E-05 | 8.15E-05 | 4.48E-05 | 4.03E-06 | 5.84E-05 | 3.62E-05 | 3.62E-05 | 1.79E-05 |
| 2256 | 258326.96 | 4085372.02 | 0.00004504 | 6.51E-04 | 4.80E-04 | 4.80E-04 | 2.68E-04 | 6.84E-06 | 9.92E-05 | 7.50E-05 | 7.50E-05 | 4.12E-05 | 3.71E-06 | 5.37E-05 | 3.34E-05 | 3.34E-05 | 1.65E-05 |
| 2257 | 258351.24 | 4085370.94 | 0.00004132 | 5.98E-04 | 4.41E-04 | 4.41E-04 | 2.46E-04 | 6.27E-06 | 9.11E-05 | 6.88E-06 | 6.88E-05 | 3.78E-05 | 3.41E-06 | 4.93E-05 | 3.06E-05 | 3.06E-05 | 1.51E-05 |
| 2258 | 258375.52 | 4085369.87 | 0.00003788 | 5.48E-04 | 4.04E-04 | 4.04E-04 | 2.25E-04 | 5.75E-06 | 8.35E-05 | 6.31E-05 | 6.31E-05 | 3.47E-05 | 3.12E-06 | 4.52E-05 | 2.81E-05 | 2.81E-05 | 1.39E-05 |
| 2259 | 257554.77 | 4085447.39 | 0.00007716 | 1.12E-03 | 6.28E-04 | 8.28E-04 | 4.62E-04 | 1.18E-06 | 1.71E-04 | 1.29E-04 | 1.29E-04 | 7.11E-05 | 6.41E-06 | 9.77E-05 | 5.76E-05 | 5.76E-05 | 2.85E-05 |
| 2260 | 257533.11 | 4085439.48 | 0.00007817 | 1.13E-03 | 8.33E-04 | 8.33E-04 | 4.65E-04 | 1.19E-05 | 1.72E-04 | 1.30E-04 | 1.30E-04 | 7.15E-06 | 6.44E-06 | 9.32E-05 | 5.79E-05 | 5.29E-05 | 2.87E-03 |
| 2261 | 257511.45 | 4085431.57 | 0.00007822 | 1.13E-03 | 8.34E-04 | 8.34E-04 | 4.65E-04 | 1.19E-05 | 1.72E-04 | 1.30E-04 | 1.30E-04 | 7.18E-05 | 6.45E-06 | 9.33E-05 | 5.79E-05 | 5.79E-05 | 2.87E-05 |
| 2262 | 257489.29 | 4085423.65 | 0.00007849 | 1.13E-03 | 8.30E-04 | 8.30E-04 | 4.63E-04 | 1.18E-05 | 1.72E-04 | 1.30E-04 | 1.30E-04 | 7.12E-05 | 6.42E-06 | 9.28E-05 | 5.72E-05 | 5.72E-06 | 2.85E-05 |
| 2263 | 257468.13 | 4085415.74 | 0.00007034 | 1.11E-03 | 8.21E-04 | 8.21E-04 | 4.58E-04 | 1.17E-05 | 1.70E-04 | 1.28E-04 | 1.28E-04 | 7.05E-05 | 6.35E-06 | 9.18E-05 | 5.70E-05 | 5.70E-05 | 2.82E-05 |
| 2264 | 257446.47 | 4085407.83 | 0.00007702 | 1.09E-03 | 8.07E-04 | 8.07E-04 | 4.50E-04 | 1.25E-05 | 1.67E-04 | 1.26E-04 | 1.26E-04 | 6.93E-05 | 6.24E-06 | 9.03E-05 | 5.61E-05 | 5.61E-05 | 2.77E-05 |
| 2265 | 257424.81 | 4085399.92 | 0.00007763 | 1.07E-03 | 7.86E-04 | 7.86E-04 | 4.38E-04 | 1.12E-06 | 1.63E-04 | 1.23E-04 | 1.23E-04 | 6.75E-05 | 6.08E-06 | 8.79E-05 | 5.46E-05 | 5.46E-05 | 2.70E-05 |
| 2266 | 257403.15 | 4085392 | 0.00007239 | 1.03E-03 | 7.59E-04 | 7.59E-04 | 4.23E-04 | 1.08E-06 | 1.57E-04 | 1.19E-04 | 1.19E-04 | 6.52E-05 | 5.87E-06 | 6.49E-05 | 5.28E-05 | 5.28E-05 | 2.61E-06 |
| 2267 | 257381.48 | 4085384.09 | 0.00006247 | 9.87E-04 | 7.28E-04 | 7.28E-04 | 4.06E-04 | 1.04E-06 | 1.50E-04 | 1.14E-04 | 1.14E-04 | 6.25E-05 | 5.63E-06 | 8.14E-05 | 5.05E-05 | 5.05E-05 | 2.50E-05 |
| 2268 | 257350.18 | 4085355.23 | 0.00006217 | 9.43E-04 | 6.95E-04 | 6.95E-04 | 3.88E-04 | 9.90E-06 | 1.44E-04 | 1.09E-04 | 1.09E-04 | 5.97E-05 | 5.38E-06 | 7.78E-05 | 4.83E-05 | 4.63E-05 | 2.39E-06 |
| 2269 | 257340.53 | 4085334.28 | 0.00006799 | 9.37E-04 | 6.91E-04 | 6.91E-04 | 3.85E-04 | 9.83E-06 | 1.43E-04 | 1.08E-04 | 1.08E-04 | 5.93E-05 | 5.34E-06 | 7.73E-05 | 4.80E-05 | 4.80E-05 | 2.38E-05 |
| 2270 | 257330.89 | 4085313.34 | 0.00006493 | 9.18E-04 | 6.77E-04 | 6.77E-04 | 3.77E-04 | 9.64E-06 | 1.40E-04 | 1.06E-04 | 1.06E-04 | 5.81E-05 | 5.23E-06 | 7.57E-05 | 4.70E-05 | 4.70E-05 | 2.33E-05 |
| 2271 | 257321.24 | 4085292.39 | 0.00006155 | 8.85E-04 | 6.52E-04 | 6.52E-04 | 3.63E-04 | 9.28E-06 | 1.35E-04 | 1.02E-04 | 1.02E-04 | 5.60E-06 | 5.04E-06 | 7.29E-05 | 4.53E-05 | 4.53E-05 | 2.24E-05 |
| 2272 | 257311.59 | 4085271.44 | 0.00005791 | 8.36E-04 | 8.16E-04 | 6.16E-04 | 3.43E-04 | 8.77E-06 | 1.27E-04 | 9.62E-05 | 9.62E-05 | 5.29E-05 | 4.76E-06 | 6.89E-06 | 4.28E-06 | 4.28E-05 | 2.12E-05 |
| 2273 | 257301.95 | 4085250.5 | 0.00005359 | 7.75E-04 | 5.71E-04 | 5.71E-04 | 3.19E-04 | 8.13E-06 | 1.18E-04 | 8.92E-05 | 8.92E-05 | 4.90E-06 | 4.42E-06 | 6.39E-05 | 3.97E-05 | 3.97E-06 | 1.96E-03 |
| 2274 | 257292.3 | 4085229.55 | 0.00004875 | 7.07E-04 | 5.21E-04 | 5.23E-04 | 2.90E-04 | 7.42E-06 | 1.08E-04 | 8.14E-05 | 8.14E-05 | 4.47E-05 | 4.03E-06 | 5.83E-05 | 3.62E-05 | 3.62E-05 | 1.29E-05 |
| 2275 | 257282.66 | 4085208.6 | 0.00004413 | 6.37E-04 | 4.69E-04 | 4.69E-04 | 2.62E-04 | 6.68E-06 | 9.70E-05 | 7.33E-06 | 7.33E-05 | 4.03E-05 | 3.63E-06 | 5.25E-05 | 3.26E-05 | 3.26E-05 | 1.61E-05 |
| 2276 | 257273.01 | 4085187.65 | 0.00003923 | 5.68E-04 | 4.19E-04 | 4.19E-04 | 2.34E-04 | 5.96E-06 | 8.66E-05 | 6.54E-05 | 6.54E-05 | 3.60E-05 | 3.24E-06 | 4.68E-05 | 2.91E-05 | 2.91E-05 | 1.44E-05 |
| 2277 | 257576.43 | 4085455.31 | 0.00007857 | 1.11E-03 | 8.19E-04 | 8.19E-04 | 4.57E-04 | 1.17E-05 | 1.69E-04 | 1.28E-04 | 1.28E-04 | 7.03E-05 | 6.34E-06 | 9.16E-05 | 5.69E-05 | 5.69E-05 | 2.82E-05 |
| 2278 | 257600.72 | 4085454.23 | 0.00007854 | 1.14E-03 | 8.37E-04 | 8.37E-04 | 4.67E-04 | 1.19E-05 | 1.73E-04 | 1.31E-04 | 1.31E-04 | 7.19E-05 | 6.47E-06 | 9.36E-05 | 5.82E-05 | 5.82E-06 | 2.88E-05 |
| 2329 | 257625 | 4085453.16 | 0.00007989 | 1.16E-03 | 8.52E-04 | 8.52E-04 | 4.75E-04 | 1.21E-05 | 1.76E-04 | 1.33E-04 | 1.33E-04 | 7.31E-05 | 6.59E-06 | 9.52E-05 | 5.92E-05 | 5.92E-05 | 2.93E-05 |
| 2280 | 257649.28 | 4085452.08 | 0.00008929 | 1.17E-03 | 8.63E-04 | 8.63E-04 | 4.81E-04 | 1.23E-06 | 1.78E-04 | 1.35E-04 | 1.35E-04 | 7.41E-05 | 6.67E-06 | 9.65E-05 | 5.99E-05 | 5.99E-05 | 2.97E-06 |
| 2281 | 257873.56 | 4085451 | 0.00008365 | 1.18E-03 | 8.67E-04 | 8.67E-04 | 4.84E-04 | 1.23E-06 | 1.79E-04 | 1.35E-04 | 1.35E-04 | 7.45E-05 | 6.71E-06 | 9.70E-05 | 6.03E-05 | 6.03E-05 | 2.98E-05 |
| 2282 | 257697.84 | 4085449.93 | 0.00008726 | 1.18E-03 | 8.71E-04 | 8.71E-04 | 4.86E-04 | 1.24E-05 | 1.80E-04 | 1.36E-04 | 1.36E-04 | 7.48E-05 | 6.74E-06 | 9.74E-05 | 6.05E-05 | 6.05E-05 | 3.00E-05 |
| 2283 | 257722.13 | 4085448.85 | 0.00008048 | 1.19E-03 | 6.75E-04 | 8.75E-04 | 4.88E-04 | 1.25E-06 | 1.81E-04 | 1.37E-04 | 1.37E-03 | 7.51E-06 | 6.76E-06 | 9.78E-05 | 6.08E-05 | 6.08E-05 | 3.01E-06 |
| 2284 | 257746.41 | 4085447.78 | 0.00008191 | 1.19E-03 | 8.76E-04 | 8.76E-04 | 4.88E-04 | 1.25E-06 | 1.81E-04 | 1.37E-04 | 1.37E-04 | 7.52E-05 | 6.77E-06 | 9.80E-05 | 6.09E-06 | 6.09E-05 | 3.01E-06 |
| 2285 | 257770.69 | 4085446.7 | 0.00008214 | 1.19E-03 | 6.76E-04 | 8.76E-04 | 4.88E-04 | 1.25E-05 | 1.81E-04 | 1.37E-04 | 1.37E-04 | 7.52E-05 | 6.77E-06 | 9.79E-06 | 6.08E-06 | 6.08E-05 | 3.01E-05 |
| 2286 | 257794.97 | 4085445.63 | 0.00008863 | 1.18E-03 | 8.73E-04 | 8.73E-04 | 4.87E-04 | 1.24E-06 | 1.80E-04 | 1.36E-04 | 1.36E-04 | 7.49E-06 | 6.75E-06 | 9.75E-05 | 6.06E-05 | 6.06E-05 | 3.00E-05 |
| 2287 | 257819.25 | 4085444.55 | 0.00008137 | 1.18E-03 | 8.67E-04 | 8.67E-04 | 4.84E-04 | 1.23E-05 | 1.29E-04 | 1.35E-04 | 1.35E-04 | 7.45E-06 | 6.71E-06 | 9.70E-06 | 6.03E-05 | 6.03E-05 | 2.98E-05 |
| 2288 | 257843.53 | 4085443.48 | 0.00008659 | 1.17E-03 | 8.60E-04 | 8.60E-04 | 4.79E-04 | 1.22E-05 | 1.78E-04 | 1.34E-04 | 1.34E-04 | 7.38E-05 | 6.65E-06 | 9.62E-05 | 5.97E-05 | 5.97E-05 | 2.96E-05 |
| 2289 | 257867.82 | 4085442.4 | 0.00029755 | 1.15E-03 | 8.50E-04 | 8.50E-04 | 4.74E-04 | 1.21E-05 | 1.76E-04 | 1.33E-04 | 1.33E-04 | 7.30E-05 | 6.57E-05 | 9.51E-05 | 5.91E-05 | 5.91E-05 | 2.92E-05 |
| 2290 | 257892.1 | 4085441.33 | 0.00008667 | 1.14E-03 | 8.39E-04 | 8.39E-04 | 4.68E-04 | 1.19E-05 | 1.73E-04 | 1.31E-04 | 1.31E-04 | 7.20E-06 | 6.48E-06 | 9.38E-05 | 5.83E-05 | 5.83E-05 | 2.88E-05 |
| 2291 | 257916.38 | 4085440.25 | 0.00007417 | 1.12E-03 | 8.25E-04 | 8.25E-04 | 4.60E-04 | 1.17E-05 | 1.71E-04 | 1.29E-04 | 1.29E-04 | 7.08E-05 | 6.38E-06 | 9.23E-05 | 5.73E-05 | 5.73E-05 | 2.84E-05 |
| 2292 | 257940.66 | 4085439.17 | 0.00007605 | 1.10E-03 | 8.10E-04 | 8.10E-04 | 4.52E-04 | 1.25E-05 | 1.67E-04 | 1.27E-04 | 1.27E-04 | 6.96E-05 | 6.27E-06 | 9.06E-05 | 5.63E-05 | 5.63E-05 | 2.79E-05 |
| 2293 | 257964.94 | 4085438.1 | 0.00007433 | 1.08E-03 | 7.93E-04 | 7.93E-04 | 4.42E-04 | 1.13E-05 | 1.64E-04 | 1.24E-04 | 1.24E-04 | 6.81E-05 | 6.14E-06 | 8.87E-05 | 5.51E-05 | 5.51E-05 | 2.73E-05 |
| 2294 | 257989.23 | 4085437.02 | 0.00007208 | 1.05E-03 | 7.75E-04 | 7.75E-04 | 4.32E-04 | 1.10E-06 | 1.60E-04 | 1.21E-04 | 1.21E-04 | 6.65E-05 | 5.99E-06 | 8.67E-05 | 5.38E-05 | 5.38E-05 | 2.67E-05 |
| 2295 | 258013.51 | 4085435.95 | 0.00007817 | 1.02E-03 | 7.55E-04 | 7.55E-04 | 4.21E-04 | 1.07E-05 | 1.56E-04 | 1.18E-04 | 1.28E-04 | 6.48E-05 | 5.84E-06 | 8.44E-05 | 5.24E-05 | 5.24E-05 | 2.60E-05 |
| 2296 | 258037.79 | 4085434.87 | 0.00006757 | 9.94E-04 | 7.33E-04 | 7.33E-04 | 4.09E-04 | 1.04E-05 | 1.52E-04 | 1.14E-04 | 1.14E-04 | 6.29E-05 | 5.67E-06 | 8.20E-05 | 5.09E-05 | 5.09E-05 | 2.52E-05 |
| 2297 | 258062.07 | 4085433.8 | 0.00006651 | 9.62E-04 | 7.09E-04 | 7.09E-04 | 3.95E-04 | 1.01E-05 | 1.47E-04 | 1.11E-04 | 1.11E-04 | 6.09E-06 | 5.48E-06 | 7.93E-05 | 4.93E-05 | 4.93E-05 | 2.44E-05 |
| 2298 | 258086.35 | 4085432.72 | 0.00006071 | 9.27E-04 | 6.83E-04 | 6.83E-04 | 3.81E-04 | 9.72E-06 | 1.41E-04 | 1.07E-04 | 1.07E-04 | 5.86E-05 | 5.26E-06 | 7.64E-05 | 4.74E-05 | 4.74E-05 | 2.35E-06 |
| 2299 | 258110.63 | 4085431.65 | 0.00006134 | 8.89E-04 | 6.55E-04 | 6.55E-04 | 3.65E-04 | 9.32E-06 | 1.35E-04 | 1.02E-04 | 1.02E-04 | 5.62E-06 | 5.06E-06 | 7.32E-05 | 4.55E-05 | 4.55E-05 | 2.15E-05 |
| 2300 | 258134.92 | 4085430.57 | 0.00005829 | 8.48E-04 | 6.25E-04 | 6.25E-04 | 3.48E-04 | 8.90E-06 | 1.29E-04 | 9.76E-05 | 9.76E-05 | 5.37E-06 | 4.83E-06 | 6.99E-06 | 4.34E-05 | 4.34E-05 | 2.15E-05 |
| 2301 | 258159.2 | 4085429.5 | 0.00005705 | 8.06E-04 | 5.94E-04 | 5.94E-04 | 3.31E-04 | 8.45E-06 | 1.23E-04 | 9.27E-05 | 9.27E-05 | 5.10E-05 | 4.59E-06 | 6.64E-05 | 4.13E-05 | 4.13E-05 | 2.04E-05 |
| 2302 | 258183.48 | 4085428.42 | 0.00005738 | 7.63E-04 | 5.62E-04 | 5.62E-04 | 3.13E-04 | 6.00E-06 | 1.16E-04 | 8.78E-05 | 8.78E-05 | 4.83E-05 | 4.35E-06 | 6.29E-05 | 3.91E-06 | 3.91E-05 | 1.93E-05 |
| 2303 | 258207.76 | 4085427.34 | 0.00004979 | 7.20E-04 | 5.31E-04 | 5.31E-04 | 2.96E-04 | 7.56E-06 | 1.10E-04 | 8.29E-05 | 8.29E-05 | 4.56E-05 | 4.10E-06 | 5.94E-05 | 3.69E-05 | 3.69E-05 | 1.83E-05 |
| 2304 | 258232.04 | 4085426.27 | 0.00004914 | 6.29E-04 | 5.00E-04 | 5.00E-04 | 2.79E-04 | 7.12E-06 | 1.03E-04 | 7.81E-05 | 7.81E-05 | 4.29E-05 | 3.87E-06 | 5.59E-05 | 3.47E-05 | 3.47E-05 | 1.72E-05 |
| 2305 | 258256.33 | 4085425.19 | 0.00004407 | 6.37E-04 | 4.70E-04 | 4.70E-04 | 2.62E-04 | 6.69E-06 | 9.71E-06 | 7.34E-05 | 7.34E-05 | 4.03E-05 | 3.63E-06 | 5.25E-05 | 3.26E-05 | 3.26E-05 | 1.62E-05 |
| 2306 | 258280.61 | 4085424.12 | 0.00004236 | 5.96E-04 | 4.40E-04 | 4.40E-04 | 2.45E-04 | 6.26E-06 | 9.09E-05 | 6.86E-05 | 6.86E-05 | 3.77E-05 | 3.40E-06 | 4.92E-05 | 3.05E-05 | 3.05E-05 | 1.51E-05 |
| 2307 | 258304.89 | 4085423.04 | 0.00003829 | 5.56E-04 | 4.10E-04 | 4.10E-04 | 2.26E-04 | 5.83E-06 | 8.47E-05 | 6.40E-06 | 6.40E-05 | 3.52E-05 | 3.17E-06 | 4.58E-05 | 2.83E-05 | 2.85E-05 | 1.41E-05 |
| 2308 | 258329.17 | 4085421.97 | 0.00003693 | 5.16E-04 | 3.81E-04 | 3.81E-04 | 2.12E-04 | 5.42E-06 | 7.88E-05 | 5.94E-05 | 5.94E-05 | 3.27E-05 | 2.94E-06 | 4.26E-05 | 2.64E-06 | 2.64E-05 | 1.31E-05 |
| 2309 | 258353.45 | 4085420.89 | 0.00003087 | 4.79E-04 | 3.53E-04 | 3.53E-04 | 1.97E-04 | 5.02E-06 | 7.29E-05 | 5.51E-06 | 5.51E-05 | 3.03E-05 | 2.73E-06 | 3.94E-05 | 2.45E-05 | 2.45E-05 | 1.21E-05 |
| 2310 | 258377.73 | 4085419.82 | 0.00003052 | 4.43E-04 | 3.27E-04 | 3.27E-04 | 1.82E-04 | 4.65E-06 | 6.75E-05 | 5.10E-05 | 5.10E-05 | 2.81E-05 | 2.53E-05 | 3.65E-06 | 2.27E-05 | 2.27E-05 | 1.12E-05 |
| 2311 | 257558.64 | 4085547.09 | 0.00005301 | 7.85E-04 | 5.79E-04 | 5.79E-04 | 3.23E-04 | 8.24E-06 | 1.20E-04 | 9.04E-05 | 9.04E-05 | 4.97E-05 | 4.48E-06 | 6.47E-06 | 4.02E-05 | 4.02E-05 | 1.99E-05 |
| 2312 | 257536.43 | 4085538.98 | 0.00005507 | 8.00E-04 | 5.90E-04 | 5.90E-04 | 3.29E-04 | 8.39E-06 | 1.22E-04 | 9.21E-06 | 9.21E-05 | 5.06E-05 | 4.56E-06 | 6.59E-05 | 4.10E-05 | 4.10E-05 | 2.03E-05 |
| 2313 | 257514.21 | 4085530.86 | 0.00005883 | 8.08E-04 | 5.96E-04 | 5.96E-04 | 3.32E-04 | 8.48E-06 | 1.23E-04 | 9.30E-06 | 9.30E-05 | 5.11E-05 | 4.61E-06 | 6.66E-05 | 4.14E-05 | 4.14E-05 | 2.05E-05 |
| 2314 | 257491.99 | 4085522.75 | 0.00005252 | 8.14E-04 | 6.00E-04 | 6.00E-04 | 3.34E-04 | 8.54E-06 | 1.24E-04 | 9.36E-06 | 9.36E-05 | 5.15E-05 | 4.64E-06 | 6.71E-05 | 4.17E-05 | 4.17E-05 | 2.06E-05 |
| 2325 | 257469.78 | 4085514.63 | 0.00005414 | 8.16E-04 | 6.01E-04 | 6.01E-04 | 3.35E-04 | 8.56E-06 | 1.24E-04 | 9.39E-05 | 9.39E-05 | 5.16E-05 | 4.65E-06 | 6.73E-05 | 4.18E-05 | 4.18E-05 | 2.07E-05 |
| 2316 | 257447.56 | 4085506.51 | 0.00005367 | 8.15E-04 | 6.01E-04 | 6.01E-04 | 3.35E-04 | 8.55E-06 | 1.24E-04 | 9.38E-05 | 9.38E-05 | 5.18E-05 | 4.65E-06 | 6.72E-05 | 4.17E-05 | 4.17E-05 | 2.07E-05 |
| 2317 | 257425.34 | 4085498.4 | 0.00005069 | 8.11E-04 | 5.98E-04 | 5.98E-04 | 3.33E-04 | 8.51E-05 | 1.24E-04 | 9.33E-05 | 9.33E-05 | 5.13E-05 | 4.62E-06 | 6.68E-05 | 4.15E-03 | 4.15E-05 | 2.06E-05 |
| 2318 | 257403.13 | 4085490.28 | 0.00005463 | 8.03E-04 | 5.91E-04 | 5.91E-04 | 3.30E-04 | 8.42E-05 | 1.22E-04 | 9.23E-05 | 9.23E-05 | 5.08E-05 | 4.57E-06 | 6.61E-05 | 4.11E-05 | 4.11E-05 | 2.03E-05 |
| 2319 | 257380.91 | 4085482.17 | 0.00005449 | 7.88E-04 | 5.81E-04 | 5.81E-04 | 3.24E-04 | 8.27E-06 | 1.20E-04 | 9.07E-05 | 9.07E-05 | 4.99E-05 | 4.49E-06 | 6.50E-05 | 4.04E-05 | 4.04E-05 | 2.00E-05 |
| 2320 | 257358.69 | 4085474.05 | 0.00005316 | 7.69E-04 | 5.67E-04 | 5.67E-04 | 3.16E-04 | 8.07E-05 | 1.17E-04 | 8.85E-05 | 8.83E-05 | 4.87E-05 | 4.38E-06 | 6.34E-05 | 3.94E-05 | 3.94E-05 | 1.95E-05 |
| 2321 | 257336.48 | 4085465.93 | 0.00005156 | 7.46E-04 | 5.50E-04 | 5.50E-04 | 3.06E-04 | 7.83E-06 | 1.14E-04 | 8.58E-06 | 8.58E-05 | 4.72E-05 | 4.25E-06 | 6.25E-05 | 3.62E-05 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2103 | 257713.28 | 4085249.05 | 0.00026539 | 3.84E-03 | 2.83E-03 | 2.83E-03 | 1.58E-03 | 4.03E-05 | 5.65E-04 | 4.42E-04 | 4.42E-04 | 2.43E-04 | 2.19E-05 | 3.16E-04 | 1.97E-04 | 1.97E-04 | 9.73E-05 |
| 2104 | 257737.56 | 4085247.97 | 0.00026904 | 3.89E-03 | 2.87E-03 | 2.87E-03 | 1.60E-03 | 4.08E-05 | 5.93E-04 | 4.48E-04 | 4.48E-04 | 2.46E-04 | 2.22E-05 | 3.21E-04 | 1.99E-04 | 1.99E-04 | 9.86E-05 |
| 2105 | 257761.84 | 4085246.9 | 0.00027181 | 3.93E-03 | 2.90E-03 | 2.90E-03 | 1.62E-03 | 4.13E-05 | 5.99E-04 | 4.52E-04 | 4.52E-04 | 2.49E-04 | 2.24E-05 | 3.24E-04 | 2.01E-04 | 2.01E-04 | 9.96E-05 |
| 2106 | 257786.12 | 4085245.82 | 0.00027391 | 3.96E-03 | 2.92E-03 | 2.92E-03 | 1.63E-03 | 4.16E-05 | 6.04E-04 | 4.56E-04 | 4.56E-04 | 2.51E-04 | 2.26E-05 | 3.27E-04 | 2.03E-04 | 2.03E-04 | 1.00E-04 |
| 2107 | 257810.4 | 4085244.75 | 0.00027538 | 3.98E-03 | 2.94E-03 | 2.94E-03 | 1.64E-03 | 4.16E-05 | 6.07E-04 | 4.58E-04 | 4.58E-04 | 2.52E-04 | 2.27E-05 | 3.28E-04 | 2.04E-04 | 2.04E-04 | 1.01E-04 |
| 2108 | 257834.68 | 4085243.67 | 0.00027631 | 4.00E-03 | 2.95E-03 | 2.95E-03 | 1.64E-03 | 4.19E-05 | 6.09E-04 | 4.60E-04 | 4.60E-04 | 2.53E-04 | 2.28E-05 | 3.29E-04 | 2.05E-04 | 2.05E-04 | 1.01E-04 |
| 2109 | 257858.97 | 4085242.6 | 0.00027671 | 4.00E-03 | 2.95E-03 | 2.95E-03 | 1.64E-03 | 4.20E-05 | 6.10E-04 | 4.61E-04 | 4.61E-04 | 2.53E-04 | 2.28E-05 | 3.30E-04 | 2.05E-04 | 2.05E-04 | 1.01E-04 |
| 2110 | 257883.25 | 4085241.52 | 0.00027484 | 3.98E-03 | 2.93E-03 | 2.93E-03 | 1.63E-03 | 4.17E-05 | 6.06E-04 | 4.57E-04 | 4.57E-04 | 2.52E-04 | 2.27E-05 | 3.28E-04 | 2.04E-04 | 2.04E-04 | 1.01E-04 |
| 2111 | 257907.53 | 4085240.45 | 0.00027326 | 3.95E-03 | 2.91E-03 | 2.91E-03 | 1.62E-03 | 4.25E-05 | 6.02E-04 | 4.55E-04 | 4.55E-04 | 2.50E-04 | 2.25E-05 | 3.26E-04 | 2.02E-04 | 2.02E-04 | 1.00E-04 |
| 2112 | 257931.81 | 4085229.37 | 0.00027226 | 3.94E-03 | 2.90E-03 | 2.90E-03 | 1.62E-03 | 4.13E-05 | 6.00E-04 | 4.53E-04 | 4.53E-04 | 2.49E-04 | 2.24E-05 | 3.25E-04 | 2.02E-04 | 2.02E-04 | 9.98E-03 |
| 2113 | 257956.09 | 4085238.29 | 0.00027063 | 3.91E-03 | 2.89E-03 | 2.89E-03 | 1.61E-03 | 4.11E-05 | 5.96E-04 | 4.50E-04 | 4.50E-04 | 2.48E-04 | 2.23E-06 | 3.23E-04 | 2.00E-04 | 2.00E-04 | 9.92E-05 |
| 2114 | 257980.38 | 4085257.22 | 0.00026838 | 3.88E-03 | 2.86E-03 | 2.86E-03 | 1.60E-03 | 4.07E-05 | 5.91E-04 | 4.47E-04 | 4.47E-04 | 2.46E-04 | 2.21E-05 | 3.20E-04 | 1.99E-04 | 1.99E-04 | 9.84E-05 |
| 2115 | 258004.66 | 4085236.14 | 0.00026554 | 3.84E-03 | 2.63E-03 | 2.83E-03 | 1.58E-03 | 4.03E-05 | 5.85E-04 | 4.42E-04 | 4.42E-04 | 2.43E-04 | 2.19E-05 | 3.17E-04 | 1.97E-04 | 1.97E-04 | 9.73E-05 |
| 2116 | 258028.94 | 4085235.07 | 0.00026197 | 3.79E-03 | 2.79E-03 | 2.79E-03 | 1.56E-03 | 3.98E-05 | 5.77E-04 | 4.36E-04 | 4.36E-04 | 2.40E-04 | 2.16E-05 | 3.12E-04 | 1.94E-04 | 1.94E-04 | 9.60E-05 |
| 2117 | 258053.22 | 4085253.99 | 0.00025765 | 3.73E-03 | 2.75E-03 | 2.75E-03 | 1.53E-03 | 3.91E-05 | 5.68E-04 | 4.29E-04 | 4.29E-04 | 2.36E-04 | 2.13E-05 | 3.07E-04 | 1.91E-04 | 1.91E-04 | 9.44E-03 |
| 2118 | 258077.5 | 4085232.92 | 0.00025244 | 3.65E-03 | 2.69E-03 | 2.69E-03 | 1.50E-03 | 3.83E-05 | 5.56E-04 | 4.20E-04 | 4.20E-04 | 2.31E-04 | 2.08E-05 | 3.01E-04 | 1.87E-04 | 1.87E-04 | 9.25E-05 |
| 2119 | 258101.78 | 4085231.84 | 0.00024627 | 3.56E-03 | 2.62E-03 | 2.63E-03 | 1.46E-03 | 3.74E-05 | 5.43E-04 | 4.10E-04 | 4.10E-04 | 2.25E-04 | 2.03E-05 | 2.94E-04 | 1.82E-04 | 1.82E-04 | 9.03E-05 |
| 2120 | 258126.07 | 4085230.77 | 0.00023895 | 3.46E-03 | 2.55E-03 | 2.55E-03 | 1.42E-03 | 3.63E-05 | 5.27E-04 | 3.98E-04 | 3.98E-04 | 2.19E-04 | 1.97E-05 | 2.85E-04 | 1.77E-04 | 1.77E-04 | 8.76E-05 |
| 2121 | 258150.35 | 4085229.69 | 0.00023037 | 3.33E-03 | 2.46E-03 | 2.46E-03 | 1.37E-03 | 3.50E-05 | 5.08E-04 | 3.83E-04 | 3.83E-04 | 2.11E-04 | 1.90E-05 | 2.75E-04 | 1.71E-04 | 1.71E-04 | 8.44E-05 |
| 2122 | 258174.63 | 4085228.62 | 0.0002203 | 3.19E-03 | 2.35E-03 | 2.35E-03 | 1.31E-03 | 3.34E-05 | 4.85E-04 | 3.67E-04 | 3.67E-04 | 2.02E-04 | 1.82E-05 | 2.62E-04 | 1.63E-04 | 1.63E-04 | 8.08E-05 |
| 2123 | 258198.91 | 4085227.54 | 0.00020861 | 3.02E-03 | 2.22E-03 | 2.22E-03 | 1.24E-03 | 3.17E-05 | 4.60E-04 | 3.47E-04 | 3.47E-04 | 1.91E-04 | 1.72E-05 | 2.49E-04 | 1.64E-04 | 1.54E-04 | 7.65E-05 |
| 2124 | 258223.19 | 4085226.46 | 0.00019513 | 2.82E-03 | 2.08E-03 | 2.08E-03 | 1.16E-03 | 2.96E-05 | 4.30E-04 | 3.25E-04 | 3.25E-04 | 1.79E-04 | 1.61E-05 | 2.33E-04 | 1.45E-04 | 1.45E-04 | 7.25E-05 |
| 2125 | 258247.48 | 4085225.39 | 0.00017984 | 2.60E-03 | 1.92E-03 | 1.92E-03 | 1.07E-03 | 2.73E-05 | 3.96E-04 | 2.99E-04 | 2.99E-04 | 1.65E-04 | 1.48E-06 | 2.14E-04 | 1.33E-04 | 1.33E-04 | 6.59E-05 |
| 2126 | 258271.76 | 4085224.31 | 0.00016294 | 2.36E-03 | 1.74E-03 | 1.74E-03 | 9.68E-04 | 2.47E-05 | 3.59E-04 | 2.71E-04 | 2.71E-04 | 1.49E-04 | 1.34E-05 | 1.94E-04 | 1.21E-04 | 1.21E-04 | 5.97E-05 |
| 2127 | 258296.04 | 4085223.24 | 0.00014485 | 2.10E-03 | 1.54E-03 | 1.54E-03 | 8.61E-04 | 2.20E-05 | 3.19E-04 | 2.41E-04 | 2.41E-04 | 1.33E-04 | 1.19E-05 | 1.73E-04 | 1.07E-04 | 1.07E-04 | 5.31E-05 |
| 2128 | 258320.32 | 4085222.16 | 0.00012653 | 1.83E-03 | 1.35E-03 | 1.35E-03 | 7.52E-04 | 1.92E-05 | 2.79E-04 | 2.11E-04 | 2.11E-04 | 1.16E-04 | 1.04E-05 | 1.51E-04 | 9.37E-05 | 9.37E-05 | 4.64E-05 |
| 2129 | 258344.6 | 4085221.09 | 0.00010885 | 1.57E-03 | 1.16E-03 | 1.16E-03 | 6.47E-04 | 1.65E-05 | 2.40E-04 | 1.81E-04 | 1.81E-04 | 9.96E-05 | 8.97E-05 | 1.30E-04 | 8.06E-05 | 8.06E-05 | 3.99E-05 |
| 2130 | 257548.14 | 4085297.54 | 0.00015205 | 2.20E-03 | 1.62E-03 | 1.62E-03 | 9.04E-04 | 2.31E-05 | 3.35E-04 | 2.53E-04 | 2.53E-04 | 1.39E-04 | 1.25E-06 | 1.81E-04 | 1.13E-04 | 1.13E-04 | 5.57E-05 |
| 2131 | 257526.47 | 4085289.62 | 0.00014934 | 2.16E-03 | 1.59E-03 | 1.59E-03 | 8.88E-04 | 2.27E-05 | 3.29E-04 | 2.49E-04 | 2.49E-04 | 1.37E-04 | 1.23E-05 | 1.78E-04 | 1.11E-04 | 1.11E-04 | 5.47E-05 |
| 2132 | 257504.81 | 4085281.71 | 0.00014439 | 2.09E-03 | 1.54E-03 | 1.64E-03 | 8.58E-04 | 2.19E-05 | 3.18E-04 | 2.40E-04 | 2.40E-04 | 1.32E-04 | 1.19E-05 | 1.72E-04 | 1.07E-04 | 1.07E-04 | 5.29E-05 |
| 2133 | 257483.25 | 4085273.8 | 0.00013693 | 1.96E-03 | 1.46E-03 | 1.46E-03 | 8.14E-04 | 2.08E-05 | 3.02E-04 | 2.28E-04 | 2.28E-04 | 1.25E-04 | 1.13E-05 | 1.62E-04 | 1.01E-04 | 1.01E-04 | 5.02E-05 |
| 2134 | 257451.65 | 4085244.94 | 0.00012878 | 1.85E-03 | 1.37E-03 | 1.37E-03 | 7.65E-04 | 1.95E-05 | 2.84E-04 | 2.14E-04 | 2.14E-04 | 1.18E-04 | 1.06E-05 | 1.54E-04 | 9.54E-05 | 9.54E-05 | 4.72E-05 |
| 2135 | 257442.2 | 4085223.99 | 0.00012635 | 1.83E-03 | 1.35E-03 | 1.25E-03 | 7.51E-04 | 1.92E-05 | 2.78E-04 | 2.10E-04 | 2.10E-04 | 1.16E-04 | 1.04E-05 | 1.51E-04 | 9.56E-05 | 9.36E-05 | 4.63E-05 |
| 2136 | 257432.55 | 4085203.05 | 0.0001196 | 1.73E-03 | 1.28E-03 | 1.28E-03 | 7.11E-04 | 1.82E-05 | 2.64E-04 | 1.99E-04 | 1.99E-04 | 1.09E-04 | 9.86E-05 | 1.43E-04 | 8.86E-05 | 8.86E-05 | 4.28E-05 |
| 2137 | 257422.91 | 4085182.1 | 0.00010959 | 1.59E-03 | 1.17E-03 | 1.17E-03 | 6.51E-04 | 1.66E-05 | 2.41E-04 | 1.82E-04 | 1.82E-04 | 1.00E-04 | 9.03E-05 | 1.31E-04 | 8.13E-05 | 8.12E-05 | 4.02E-05 |
| 2138 | 257569.8 | 4085305.45 | 0.00025273 | 2.21E-03 | 1.63E-03 | 1.62E-03 | 9.08E-04 | 2.32E-05 | 3.37E-04 | 2.54E-04 | 2.54E-04 | 1.40E-04 | 1.26E-05 | 1.82E-04 | 1.13E-04 | 1.13E-04 | 5.60E-05 |
| 2139 | 257594.08 | 4085304.38 | 0.00016053 | 2.32E-03 | 1.71E-03 | 1.71E-03 | 9.64E-04 | 2.44E-05 | 3.54E-04 | 2.67E-04 | 2.67E-04 | 1.47E-04 | 1.32E-05 | 1.91E-04 | 1.19E-04 | 1.19E-04 | 5.88E-05 |
| 2140 | 257618.36 | 4085303.3 | 0.00016701 | 2.42E-03 | 1.78E-03 | 1.78E-03 | 9.93E-04 | 2.53E-06 | 3.68E-04 | 2.78E-04 | 2.78E-04 | 1.53E-04 | 1.38E-05 | 1.99E-04 | 1.24E-04 | 1.24E-04 | 6.12E-05 |
| 2141 | 257642.64 | 4085302.23 | 0.00017237 | 2.49E-03 | 1.84E-03 | 1.84E-03 | 1.02E-03 | 2.62E-05 | 3.80E-04 | 2.87E-04 | 2.87E-04 | 1.58E-04 | 1.42E-05 | 2.06E-04 | 1.28E-04 | 1.28E-04 | 6.32E-05 |
| 2142 | 257666.92 | 4085301.15 | 0.00017685 | 2.56E-03 | 1.89E-03 | 1.89E-03 | 1.06E-03 | 2.68E-05 | 3.90E-04 | 2.94E-04 | 2.94E-04 | 1.62E-04 | 1.46E-05 | 2.11E-04 | 1.31E-04 | 1.31E-04 | 6.48E-05 |
| 2143 | 257691.21 | 4085300.08 | 0.0001805 | 2.61E-03 | 1.92E-03 | 1.92E-03 | 1.07E-03 | 2.74E-05 | 3.98E-04 | 3.00E-04 | 3.00E-04 | 1.65E-04 | 1.49E-05 | 2.15E-04 | 1.34E-04 | 1.34E-04 | 6.62E-05 |
| 2144 | 257715.49 | 4085299 | 0.00018339 | 2.65E-03 | 1.96E-03 | 1.96E-03 | 1.09E-03 | 2.78E-05 | 4.04E-04 | 3.05E-04 | 3.06E-04 | 1.68E-04 | 1.51E-05 | 2.19E-04 | 1.36E-04 | 1.36E-04 | 6.72E-05 |
| 2145 | 257739.77 | 4085297.92 | 0.00018557 | 2.68E-03 | 1.98E-03 | 1.98E-03 | 1.10E-03 | 2.82E-05 | 4.09E-04 | 3.09E-04 | 3.09E-04 | 1.70E-04 | 1.53E-05 | 2.21E-04 | 1.37E-04 | 1.37E-04 | 6.80E-05 |
| 2146 | 257764.05 | 4085296.85 | 0.00018712 | 2.71E-03 | 1.99E-03 | 1.99E-03 | 1.11E-03 | 2.84E-03 | 4.13E-04 | 3.11E-04 | 3.11E-04 | 1.71E-04 | 1.54E-05 | 2.25E-04 | 1.39E-04 | 1.39E-04 | 6.86E-05 |
| 2147 | 257788.33 | 4085295.77 | 0.00018791 | 2.77E-03 | 2.00E-03 | 2.00E-03 | 1.12E-03 | 2.85E-05 | 4.14E-04 | 3.13E-04 | 3.13E-04 | 1.77E-04 | 1.55E-05 | 2.24E-04 | 1.39E-04 | 1.39E-04 | 6.89E-05 |
| 2148 | 257812.62 | 4085294.7 | 0.00018764 | 2.71E-03 | 2.00E-03 | 2.00E-03 | 1.12E-03 | 2.65E-05 | 4.13E-04 | 3.12E-04 | 3.12E-04 | 1.77E-04 | 1.55E-05 | 2.24E-04 | 1.39E-04 | 1.39E-04 | 6.88E-05 |
| 2149 | 257836.9 | 4085293.62 | 0.00018768 | 2.71E-03 | 2.00E-03 | 2.00E-03 | 1.12E-03 | 2.85E-05 | 4.14E-04 | 3.12E-04 | 3.12E-04 | 1.72E-04 | 1.55E-05 | 2.24E-04 | 1.39E-04 | 1.39E-04 | 6.88E-05 |
| 2150 | 257861.18 | 4085292.55 | 0.0001869 | 2.70E-03 | 1.99E-03 | 1.99E-03 | 1.11E-03 | 2.84E-05 | 4.12E-04 | 3.11E-04 | 3.11E-04 | 1.71E-04 | 1.54E-05 | 2.23E-04 | 1.38E-04 | 1.38E-04 | 6.85E-05 |
| 2251 | 257885.46 | 4085291.47 | 0.00018618 | 2.69E-03 | 1.98E-03 | 1.98E-03 | 1.11E-03 | 2.83E-05 | 4.10E-04 | 3.10E-04 | 3.10E-04 | 1.70E-04 | 1.53E-05 | 2.22E-04 | 1.38E-04 | 1.38E-04 | 6.82E-05 |
| 2152 | 257909.74 | 4085290.4 | 0.00018503 | 2.68E-03 | 1.97E-03 | 1.97E-03 | 1.10E-03 | 2.81E-05 | 4.08E-04 | 3.08E-04 | 3.08E-04 | 1.69E-04 | 1.53E-05 | 2.21E-04 | 1.37E-04 | 1.37E-04 | 6.78E-05 |
| 2153 | 257934.02 | 4085289.32 | 0.00018346 | 2.65E-03 | 1.96E-03 | 1.96E-03 | 1.09E-03 | 2.78E-05 | 4.04E-04 | 3.05E-04 | 3.05E-04 | 1.68E-04 | 1.51E-05 | 2.19E-04 | 1.36E-04 | 1.36E-04 | 6.73E-05 |
| 2154 | 257958.31 | 4085288.25 | 0.00018145 | 2.62E-03 | 1.93E-03 | 1.93E-03 | 1.08E-03 | 2.75E-05 | 4.00E-04 | 3.02E-04 | 3.02E-04 | 1.66E-04 | 1.50E-05 | 2.16E-04 | 1.34E-04 | 1.34E-04 | 6.65E-05 |
| 2255 | 257962.59 | 4085287.17 | 0.00017899 | 2.59E-03 | 1.91E-03 | 1.91E-03 | 1.06E-03 | 2.72E-05 | 3.94E-04 | 2.98E-04 | 2.98E-04 | 1.64E-04 | 1.48E-05 | 2.13E-04 | 1.33E-04 | 1.33E-04 | 6.56E-05 |
| 2156 | 258006.87 | 4085286.09 | 0.00017604 | 2.55E-03 | 1.88E-03 | 1.88E-03 | 1.05E-03 | 2.67E-05 | 3.88E-04 | 2.93E-04 | 2.93E-04 | 1.61E-04 | 1.45E-05 | 2.10E-04 | 1.30E-04 | 1.30E-04 | 6.45E-05 |
| 2257 | 258031.15 | 4085265.02 | 0.00017256 | 2.50E-03 | 1.84E-03 | 1.84E-03 | 1.03E-03 | 2.62E-05 | 3.80E-04 | 2.87E-04 | 2.87E-04 | 1.58E-04 | 1.42E-05 | 2.06E-04 | 1.28E-04 | 1.28E-04 | 6.33E-03 |
| 2258 | 258055.43 | 4085283.94 | 0.00016855 | 2.44E-03 | 1.80E-03 | 1.80E-03 | 1.00E-03 | 2.56E-05 | 3.71E-04 | 2.81E-04 | 2.81E-04 | 1.54E-04 | 1.39E-05 | 2.01E-04 | 1.25E-04 | 1.25E-04 | 6.18E-03 |
| 2159 | 258079.72 | 4085282.87 | 0.00016394 | 2.37E-03 | 1.75E-03 | 1.75E-03 | 9.74E-04 | 2.49E-05 | 3.61E-04 | 2.73E-04 | 2.73E-04 | 1.50E-04 | 1.35E-05 | 1.95E-04 | 1.21E-04 | 1.21E-04 | 6.01E-05 |
| 2160 | 258104 | 4085281.79 | 0.00015871 | 2.30E-03 | 1.69E-03 | 1.69E-03 | 9.43E-04 | 2.41E-05 | 3.50E-04 | 2.64E-04 | 2.64E-04 | 1.45E-04 | 1.31E-05 | 1.89E-04 | 1.18E-04 | 1.18E-04 | 5.82E-05 |
| 2161 | 258128.26 | 4085280.77 | 0.00015278 | 2.21E-03 | 1.62E-03 | 1.62E-03 | 9.08E-04 | 2.32E-05 | 3.37E-04 | 2.54E-04 | 2.54E-04 | 1.40E-04 | 1.26E-05 | 1.82E-04 | 1.13E-04 | 1.13E-04 | 5.60E-05 |
| 2162 | 258252.56 | 4085279.64 | 0.00014613 | 2.11E-03 | 1.56E-03 | 1.56E-03 | 8.69E-04 | 2.22E-05 | 3.22E-04 | 2.43E-04 | 2.43E-04 | 1.34E-04 | 1.20E-05 | 1.74E-04 | 1.08E-04 | 1.08E-04 | 5.36E-05 |
| 2162 | 258176.84 | 4085278.57 | 0.00013868 | 2.01E-03 | 1.48E-03 | 1.48E-03 | 8.24E-04 | 2.10E-05 | 3.06E-04 | 2.31E-04 | 2.31E-04 | 1.27E-04 | 1.14E-05 | 1.65E-04 | 1.03E-04 | 1.03E-04 | 5.08E-05 |
| 2164 | 258201.12 | 4085277.49 | 0.00013045 | 1.89E-03 | 1.39E-03 | 1.39E-03 | 7.75E-04 | 1.98E-05 | 2.87E-04 | 2.17E-04 | 2.17E-04 | 1.19E-04 | 1.08E-05 | 1.56E-04 | 9.66E-05 | 9.66E-05 | 4.78E-05 |
| 2165 | 258225.41 | 4085276.42 | 0.00012145 | 1.76E-03 | 1.29E-03 | 1.29E-03 | 7.22E-04 | 1.84E-05 | 2.68E-04 | 2.02E-04 | 2.02E-04 | 1.11E-04 | 1.00E-05 | 1.45E-04 | 6.99E-05 | 8.99E-05 | 4.45E-05 |
| 2166 | 258249.69 | 4085275.34 | 0.00011187 | 1.62E-03 | 1.19E-03 | 1.19E-03 | 6.65E-04 | 1.70E-05 | 2.47E-04 | 1.86E-04 | 1.86E-04 | 1.02E-04 | 9.22E-05 | 1.33E-04 | 8.28E-05 | 8.28E-05 | 4.10E-03 |
| 2167 | 258273.97 | 4085274.26 | 0.00010198 | 1.48E-03 | 1.09E-03 | 1.09E-03 | 6.06E-04 | 1.55E-05 | 2.23E-04 | 1.70E-04 | 1.70E-04 | 9.33E-05 | 8.41E-06 | 1.22E-04 | 7.55E-05 | 7.55E-03 | 3.74E-05 |
| 2168 | 258298.25 | 4085273.19 | 0.000092092 | 1.33E-03 | 9.82E-04 | 9.82E-04 | 5.47E-04 | 1.40E-05 | 2.03E-04 | 1.53E-04 | 1.53E-04 | 8.43E-05 | 7.59E-06 | 1.10E-04 | 6.82E-05 | 6.82E-05 | 3.36E-05 |
| 2169 | 258322.53 | 4085272.11 | 0.00008240Z | 1.19E-03 | 8.78E-04 | 8.78E-04 | 4.90E-04 | 1.25E-05 | 1.82E-04 | 1.37E-04 | 1.37E-04 | 7.54E-05 | 6.79E-06 | 9.82E-05 | 6.10E-05 | 6.10E-05 | 3.02E-05 |
| 2170 | 258346.82 | 4085271.04 | 0.000073122 | 1.06E-03 | 7.80E-04 | 7.80E-04 | 4.35E-04 | 1.11E-05 | 1.61E-04 | 1.22E-04 | 1.22E-04 | 6.69E-05 | 6.01E-06 | 8.77E-05 | 5.42E-05 | 5.42E-05 | 2.68E-05 |
| 2171 | 258371.1 | 4085269.96 | 0.00006469G | 9.36E-04 | 6.90E-04 | 6.90E-04 | 3.85E-04 | 9.82E-06 | 1.43E-04 | 1.08E-04 | 1.08E-04 | 5.92E-05 | 5.31E-06 | 7.71E-05 | 4.79E-05 | 4.79E-05 | 2.37E-05 |
| 2172 | 257551.28 | 4085347.87 | 0.00011804 | 1.71E-03 | 1.26E-03 | 1.26E-03 | 7.02E-04 | 1.79E-05 | 2.60E-04 | 1.96E-04 | 1.96E-04 | 1.02E-04 | 9.73E-05 | 1.41E-04 | 8.74E-05 | 8.74E-05 | 4.33E-05 |
| 2173 | 257510.13 | 4085332.8 | 0.00011563 | 1.67E-03 | 1.25E-03 | 1.23E-03 | 6.87E-04 | 1.75E-05 | 2.55E-04 | 1.92E-04 | 1.92E-04 | 1.06E-04 | 9.53E-05 | 1.38E-04 | 8.56E-03 | 8.56E-05 | 4.24E-05 |
| 2174 | 257468.86 | 4085317.77 | 0.00010887 | 1.57E-03 | 1.16E-03 | 1.16E-03 | 6.47E-04 | 1.65E-05 | 2.40E-04 | 1.81E-04 | 1.81E-04 | 9.96E-05 | 8.97E-05 | 1.30E-04 | 8.06E-05 | 8.06E-05 | 3.99E-03 |
| 2175 | 257418.42 | 4085282.7 | 0.00009826Z | 1.42E-03 | 1.05E-03 | 1.05E-03 | 5.84E-04 | 1.49E-05 | 2.17E-04 | 1.64E-04 | 1.64E-04 | 8.99E-05 | 8.10E-06 | 1.17E-04 | 7.28E-05 | 7.28E-05 | 3.60E-05 |
| 2178 | 257400.04 | 4085242.8 | 0.00009409Z | 1.36E-03 | 1.00E-03 | 1.00E-03 | 5.59E-04 | 1.43E-05 | 2.07E-04 | 1.57E-04 | 1.57E-04 | 8.61E-05 | 7.76E-05 | 1.12E-04 | 6.97E-05 | 5.97E-03 | 3.45E-05 |
| 2177 | 257381.67 | 4085202.9 | 0.00008168 | 1.18E-03 | 8.73E-04 | 8.73E-04 | 4.87E-04 | 1.24E-05 | 1.80E-04 | 1.36E-04 | 1.36E-04 | 7.49E-05 | 6.75E-05 | 9.76E-05 | 6.06E-05 | 6.06E-05 | 3.00E-05 |
| 2178 | 257596.29 | 4085354.33 | 0.00012236 | 1.77E-03 | 1.30E-03 | 1.30E-03 | 7.27E-04 | 1.86E-05 | 2.70E-04 | 2.04E-04 | 2.04E-04 | 1.12E-04 | 1.01E-05 | 1.46E-04 | 9.06E-05 | 9.06E-05 | 4.49E-05 |
| 2179 | 257620.57 | 4085353.25 | 0.00012617 | 1.82E-03 | 1.35E-03 | 1.35E-03 | 7.50E-04 | 1.91E-05 | 2.78E-04 | 2.10E-04 | 2.10E-04 | 1.15E-04 | 1.04E-05 | 1.50E-04 | 9.34E-03 | 9.34E-05 | 4.62E-05 |
| 2180 | 257644.85 | 4085352.18 | 0.0001293 | 1.87E-03 | 1.38E-03 | 1.38E-03 | 7.68E-04 | 1.96E-05 | 2.85E-04 | 2.15E-04 | 2.15E-04 | 1.18E-04 | 1.07E-05 | 1.54E-04 | 9.57E-05 | 9.57E-05 | 4.74E-05 |
| 2181 | 257669.14 | 4085351.1 | 0.0001319 | 1.91E-03 | 1.41E-03 | 1.41E-03 | 7.84E-04 | 2.00E-05 | 2.91E-04 | 2.20E-04 | 2.20E-04 | 1.21E-04 | 1.09E-05 | 1.57E-04 | 9.77E-05 | 9.27E-05 | 4.84E-05 |
| 2182 | 257693.42 | 4085250.03 | 0.00013404 | 1.94E-03 | 1.43E-03 | 1.43E-03 | 7.97E-04 | 2.03E-05 | 2.95E-04 | 2.25E-04 | 2.23E-04 | 1.23E-04 | 1.10E-05 | 1.60E-04 | 9.93E-05 | 9.93E-05 | 4.91E-05 |
| 2183 | 257717.7 | 4085348.95 | 0.00013573 | 1.96E-03 | 1.45E-03 | 1.45E-03 | 8.07E-04 | 2.06E-05 | 2.99E-04 | 2.26E-04 | 2.26E-04 | 1.24E-04 | 1.12E-05 | 1.62E-04 | 1.01E-04 | 1.01E-04 | 4.98E-05 |
| 2184 | 257741.98 | 4085347.88 | 0.00013663 | 1.98E-03 | 1.46E-03 | 1.46E-03 | 8.12E-04 | 2.07E-05 | 3.01E-04 | 2.27E-04 | 2.27E-04 | 1.25E-04 | 1.13E-05 | 1.62E-04 | 1.01E-04 | 1.01E-04 | 5.01E-05 |
| 2185 | 257766.26 | 4085346.8 | 0.00013677 | 1.98E-03 | 1.46E-03 | 1.46E-03 | 8.13E-04 | 2.08E-05 | 3.01E-04 | 2.28E-04 | 2.28E-04 | 1.25E-04 | 1.13E-05 | 1.63E-04 | 1.01E-04 | 1.01E-04 | 5.01E-05 |
| 2186 | 257790.55 | 4085345.73 | 0.00013703 | 1.98E-03 | 1.46E-03 | 1.46E-03 | 8.14E-04 | 2.08E-05 | 3.02E-04 | 2.28E-04 | 2.28E-04 | 1.25E-04 | 1.13E-05 | 1.63E-04 | 1.01E-04 | 1.01E-04 | 5.02E-05 |
| 2187 | 257814.63 | 4085344.65 | 0.00013697 | 1.98E-03 | 1.46E-03 | 1.46E-03 | 8.14E-04 | 2.08E-05 | 3.02E-04 | 2.28E-04 | 2.28E-04 | 1.25E-04 | 1.13E-05 | 1.63E-04 | 1.01E-04 | 1.01E-04 | 5.02E-05 |
| 2188 | 257839.11 | 4085343.57 | 0.00013655 | 1.98E-03 | 1.46E-03 | 1.46E-03 | 8.12E-04 | 2.07E-05 | 3.01E-04 | 2.27E-04 | 2.27E-04 | 1.25E-04 | 1.13E-05 | 1.63E-04 | 1.01E-04 | 1.01E-04 | 5.01E-05 |
| 2189 | 257863.39 | 4085342.5 | 0.00013579 | 1.96E-03 | 1.45E-03 | 1.45E-03 | 8.07E-04 | 2.06E-05 | 2.99E-04 | 2.26E-04 | 2.26E-04 | 1.24E-04 | 1.12E-05 | 1.62E-04 | 1.01E-04 | 1.01E-04 | 4.98E-05 |
| 2190 | 257887.67 | 4085341.42 | 0.00013471 | 1.95E-03 | 1.44E-03 | 1.44E-03 | 8.01E-04 | 2.04E-05 | 2.97E-04 | 2.24E-04 | 2.24E-04 | 1.23E-04 | 1.11E-05 | 1.61E-04 | 9.98E-05 | 9.98E-05 | 4.94E-05 |
| 2191 | 257911.95 | 4085340.35 | 0.0001333 | 1.93E-03 | 1.42E-03 | 1.42E-03 | 7.92E-04 | 2.02E-05 | 2.94E-04 | 2.22E-04 | 2.22E-04 | 1.22E-04 | 1.10E-05 | 1.59E-04 | 9.87E-05 | 9.87E-05 | 4.89E-05 |
| 2192 | 257936.24 | 4085239.27 | 0.00013157 | 1.90E-03 | 1.40E-03 | 1.40E-03 | 7.82E-04 | 2.00E-05 | 2.90E-04 | 2.19E-04 | 2.19E-04 | 1.20E-04 | 1.08E-05 | 1.57E-04 | 9.74E-05 | 9.74E-05 | 4.82E-05 |
| 2193 | 257960.52 | 4085338.2 | 0.00012953 | 1.87E-03 | 1.38E-03 | 1.38E-03 | 7.70E-04 | 1.97E-03 | 2.85E-04 | 2.16E-04 | 2.16E-04 | 1.19E-04 | 1.07E-05 | 1.54E-04 | 9.59E-05 | 9.59E-05 | 4.75E-05 |
| 2194 | 257984.8 | 4085337.12 | 0.00012717 | 1.84E-03 | 1.36E-03 | 1.36E-03 | 7.56E-04 | 1.93E-05 | 2.80E-04 | 2.12E-04 | 2.12E-04 | 1.16E-04 | 1.05E-05 | 1.52E-04 | 9.42E-05 | 9.42E-05 | 4.66E-05 |
| 2195 | 258009.08 | 4085336.05 | 0.00012447 | 1.80E-03 | 1.33E-03 | 1.33E-03 | 7.40E-04 | 1.89E-05 | 2.74E-04 | 2.07E-04 | 2.07E-04 | 1.14E-04 | 1.03E-05 | 1.48E-04 | 9.22E-05 | 9.22E-05 | 4.56E-05 |
| 2196 | 258033.36 | 4085334.97 | 0.00012145 | 1.76E-03 | 1.29E-03 | 1.29E-03 | 7.22E-04 | 1.84E-05 | 2.68E-04 | 2.02E-04 | 2.03E-04 | 1.11E-04 | 1.00E-05 | 1.45E-04 | 8.99E-05 | 8.99E-03 | 4.45E-05 |
| 2197 | 258057.65 | 4085333.9 | 0.00011807 | 1.71E-03 | 1.26E-03 | 1.26E-03 | 7.02E-04 | 1.79E-05 | 2.60E-04 | 1.97E-04 | 1.97E-04 | 1.08E-04 | 9.73E-06 | 1.41E-04 | 8.74E-05 | 8.74E-05 | 4.33E-05 |
| 2198 | 258081.93 | 4085332.82 | 0.00011433 | 1.65E-03 | 1.22E-03 | 1.22E-03 | 6.80E-04 | 1.74E-05 | 2.52E-04 | 1.90E-04 | 1.90E-04 | 1.05E-04 | 9.42E-05 | 1.36E-04 | 8.47E-05 | 8.47E-05 | 4.19E-05 |
| 2199 | 258106.21 | 4085331.74 | 0.0001102 | 1.59E-03 | 1.17E-03 | 1.17E-03 | 6.55E-04 | 1.67E-03 | 2.43E-04 | 1.83E-04 | 1.83E-04 | 1.01E-04 | 9.08E-05 | 1.31E-04 | 8.16E-05 | 8.16E-05 | 4.04E-05 |
| 2200 | 258130.49 | 4085330.67 | 0.00010565 | 1.53E-03 | 1.13E-03 | 1.13E-03 | 6.28E-04 | 1.60E-05 | 2.33E-04 | 1.76E-04 | 1.76E-04 | 9.67E-05 | 8.71E-05 | 1.26E-04 | 7.82E-05 | 7.82E-05 | 3.87E-05 |
| 2201 | 258154.77 | 4085329.59 | 0.00010065 | 1.46E-03 | 1.07E-03 | 1.07E-03 | 5.98E-04 | 1.53E-05 | 2.22E-04 | 1.68E-04 | 1.68E-04 | 9.21E-05 | 8.30E-05 | 1.20E-04 | 7.46E-05 | 7.45E-05 | 3.69E-05 |
| 2202 | 258179.05 | 4085328.52 | 0.000095213 | 1.38E-03 | 1.02E-03 | 1.02E-03 | 5.66E-04 | 1.45E-05 | 2.10E-04 | 1.58E-04 | 1.58E-04 | 8.71E-05 | 7.85E-05 | 1.14E-04 | 7.05E-05 | 7.05E-05 | 3.49E-05 |
| 2203 | 258203.34 | 4085327.44 | 0.000089398 | 1.29E-03 | 9.53E-04 | 9.53E-04 | 5.31E-04 | 1.36E-05 | 1.97E-04 | 1.49E-04 | 1.49E-04 | 8.18E-05 | 7.37E-05 | 1.07E-04 | 6.62E-05 | 6.62E-05 | 3.28E-05 |
| 2204 | 258227.62 | 4085326.37 | 0.000083326 | 1.21E-03 | 8.88E-04 | 8.88E-04 | 4.95E-04 | 1.28E-05 | 1.84E-04 | 1.39E-04 | 1.39E-04 | 7.63E-05 | 6.87E-05 | 9.93E-05 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1986 | 257434.14 | 4083484.05 | 1.0614E-05 | 1.54E-05 | 1.13E-03 | 1.13E-05 | 6.31E-05 | 1.61E-07 | 2.34E-06 | 1.77E-06 | 1.77E-06 | 9.71E-07 | 6.75E-08 | 1.27E-05 | 7.86E-07 | 7.86E-07 | 3.89E-07 |
| 1987 | 256057.58 | 4085032.89 | 0.000003504 | 5.07E-05 | 3.74E-03 | 3.74E-05 | 2.08E-05 | 5.32E-07 | 7.77E-06 | 5.62E-06 | 5.83E-06 | 3.21E-06 | 2.89E-07 | 4.18E-06 | 2.59E-06 | 2.59E-06 | 1.28E-05 |
| 1988 | 256059.24 | 4085077.45 | 3.6433E-05 | 5.27E-05 | 3.88E-03 | 3.88E-05 | 2.17E-05 | 5.53E-07 | 8.03E-06 | 6.06E-06 | 6.06E-06 | 3.33E-06 | 3.00E-07 | 4.34E-06 | 2.70E-06 | 2.70E-05 | 1.34E-06 |
| 1989 | 256060.89 | 4085132.02 | 3.7232E-06 | 5.39E-05 | 3.97E-05 | 3.97E-06 | 2.21E-06 | 5.65E-07 | 8.20E-06 | 6.20E-05 | 6.20E-06 | 3.41E-05 | 3.07E-07 | 4.44E-05 | 2.76E-06 | 2.76E-05 | 1.36E-06 |
| 1990 | 256062.54 | 4085166.58 | 3.7642E-06 | 5.44E-05 | 4.01E-05 | 4.01E-05 | 2.24E-05 | 5.71E-07 | 6.29E-05 | 6.27E-05 | 6.27E-05 | 3.44E-05 | 3.10E-07 | 4.49E-05 | 2.79E-05 | 2.79E-05 | 1.38E-06 |
| 1991 | 256064.19 | 4085211.14 | 3.7949E-06 | 5.49E-05 | 4.05E-05 | 4.05E-05 | 2.26E-05 | 5.76E-07 | 8.36E-05 | 6.32E-06 | 6.32E-05 | 3.47E-05 | 3.13E-07 | 4.52E-06 | 2.81E-06 | 2.81E-06 | 1.39E-06 |
| 1992 | 257564.77 | 4085180.58 | 0.00045708 | 6.61E-03 | 4.87E-03 | 4.87E-03 | 2.72E-03 | 6.94E-05 | 1.01E-03 | 7.61E-04 | 7.61E-04 | 4.18E-04 | 3.77E-05 | 5.45E-04 | 3.38E-04 | 3.38E-04 | 1.68E-04 |
| 1993 | 257568.55 | 4085179.5 | 0.00053894 | 7.79E-03 | 5.75E-03 | 5.75E-03 | 3.20E-03 | 6.16E-05 | 1.19E-03 | 8.97E-04 | 6.97E-04 | 4.93E-04 | 4.44E-05 | 6.43E-04 | 3.99E-04 | 3.99E-04 | 1.98E-04 |
| 1994 | 257612.83 | 4085178.42 | 0.00058758 | 8.50E-03 | 6.26E-03 | 6.26E-03 | 3.49E-03 | 8.92E-05 | 1.29E-03 | 9.78E-04 | 9.78E-04 | 5.38E-04 | 4.84E-05 | 7.01E-04 | 4.35E-04 | 4.35E-04 | 2.15E-04 |
| 1995 | 257637.11 | 4085177.35 | 0.00061762 | 8.93E-03 | 6.58E-03 | 6.58E-03 | 3.67E-03 | 9.37E-05 | 1.36E-03 | 1.03E-03 | 1.03E-03 | 5.65E-04 | 5.09E-06 | 7.36E-04 | 4.57E-04 | 4.57E-04 | 2.26E-04 |
| 1996 | 257661.39 | 4085176.27 | 0.0006378 | 9.22E-03 | 6.80E-03 | 6.80E-03 | 3.79E-03 | 9.68E-05 | 1.41E-03 | 1.06E-03 | 1.06E-03 | 5.84E-04 | 5.26E-05 | 7.60E-04 | 4.72E-04 | 4.77E-04 | 2.34E-04 |
| 1997 | 257685.68 | 4085175.2 | 0.00065199 | 9.43E-03 | 6.95E-03 | 6.95E-03 | 3.88E-03 | 9.90E-05 | 1.44E-03 | 1.09E-03 | 1.09E-03 | 5.97E-04 | 5.37E-05 | 7.77E-04 | 4.83E-04 | 4.83E-04 | 2.39E-04 |
| 1998 | 257709.96 | 4085174.12 | 0.00066251 | 9.58E-03 | 7.06E-03 | 7.06E-03 | 3.94E-03 | 1.01E-04 | 1.46E-03 | 1.10E-03 | 1.10E-03 | 6.06E-04 | 5.46E-05 | 7.90E-04 | 4.91E-04 | 4.91E-04 | 2.43E-04 |
| 1999 | 257734.24 | 4085177.05 | 0.00067021 | 9.69E-03 | 7.14E-03 | 7.14E-03 | 3.98E-03 | 1.02E-04 | 1.48E-03 | 1.13E-03 | 1.13E-03 | 6.13E-04 | 5.52E-05 | 7.99E-04 | 4.96E-04 | 4.96E-04 | 2.46E-04 |
| 2000 | 257758.52 | 4085171.97 | 0.00067593 | 9.78E-03 | 7.21E-03 | 7.21E-03 | 4.02E-03 | 1.03E-04 | 1.49E-03 | 1.13E-03 | 1.13E-03 | 6.19E-04 | 5.57E-05 | 8.06E-04 | 5.01E-04 | 5.01E-04 | 2.48E-04 |
| 2001 | 257762.8 | 4085170.9 | 0.00068006 | 9.84E-03 | 7.25E-03 | 7.25E-03 | 4.04E-03 | 1.03E-04 | 1.50E-03 | 1.13E-03 | 1.13E-03 | 6.22E-04 | 5.61E-05 | 8.11E-04 | 5.04E-04 | 5.04E-04 | 2.49E-04 |
| 2002 | 257807.08 | 4085169.82 | 0.00068315 | 9.88E-03 | 7.28E-03 | 7.28E-03 | 4.06E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.25E-04 | 5.62E-05 | 8.14E-04 | 5.06E-04 | 5.06E-04 | 2.50E-04 |
| 2003 | 257831.37 | 4085168.75 | 0.00068505 | 9.91E-03 | 7.30E-03 | 7.30E-03 | 4.07E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.27E-04 | 5.63E-05 | 8.17E-04 | 5.07E-04 | 5.07E-04 | 2.51E-04 |
| 2004 | 257855.65 | 4085167.67 | 0.00068536 | 9.93E-03 | 7.32E-03 | 7.32E-03 | 4.08E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.28E-04 | 5.66E-05 | 8.18E-04 | 5.08E-04 | 5.08E-04 | 2.52E-04 |
| 2005 | 257879.93 | 4085166.59 | 0.00068698 | 9.94E-03 | 7.32E-03 | 7.32E-03 | 4.08E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.29E-04 | 5.66E-05 | 8.19E-04 | 5.09E-04 | 5.09E-04 | 2.52E-04 |
| 2006 | 257904.21 | 4085165.52 | 0.00068684 | 9.93E-03 | 7.32E-03 | 7.32E-03 | 4.08E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.29E-04 | 5.66E-05 | 8.19E-04 | 5.09E-04 | 5.09E-04 | 2.52E-04 |
| 2007 | 257928.49 | 4085164.44 | 0.00068522 | 9.93E-03 | 7.32E-03 | 7.32E-03 | 4.08E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.28E-04 | 5.66E-05 | 8.16E-04 | 5.08E-04 | 5.08E-04 | 2.52E-04 |
| 2008 | 257952.78 | 4085163.37 | 0.00068491 | 9.91E-03 | 7.30E-03 | 7.30E-03 | 4.07E-03 | 1.04E-04 | 1.51E-03 | 1.14E-03 | 1.14E-03 | 6.27E-04 | 5.65E-05 | 8.17E-04 | 5.07E-04 | 5.07E-04 | 2.51E-04 |
| 2009 | 257977.06 | 4085162.29 | 0.0006829 | 9.88E-03 | 7.28E-03 | 7.28E-03 | 4.06E-03 | 1.04E-04 | 1.50E-03 | 1.14E-03 | 1.14E-03 | 6.25E-04 | 5.63E-05 | 8.14E-04 | 5.06E-04 | 5.06E-04 | 2.50E-04 |
| 2010 | 258001.34 | 4085161.22 | 0.00068031 | 9.84E-03 | 7.25E-03 | 7.25E-03 | 4.04E-03 | 1.03E-04 | 1.50E-03 | 1.13E-03 | 1.13E-03 | 6.23E-04 | 5.61E-05 | 8.11E-04 | 5.04E-04 | 5.04E-04 | 2.49E-04 |
| 2011 | 258025.62 | 4085160.14 | 0.00067715 | 9.79E-03 | 7.22E-03 | 7.22E-03 | 4.02E-03 | 1.03E-04 | 1.49E-03 | 1.13E-03 | 1.13E-03 | 6.20E-04 | 5.58E-05 | 8.07E-04 | 5.01E-04 | 5.01E-04 | 2.48E-04 |
| 2012 | 258049.9 | 4085159.07 | 0.00067713 | 9.74E-03 | 7.18E-03 | 7.18E-03 | 4.00E-03 | 1.02E-04 | 1.48E-03 | 1.12E-03 | 1.12E-03 | 6.16E-04 | 5.55E-05 | 8.03E-04 | 4.98E-04 | 4.98E-04 | 2.47E-04 |
| 2013 | 258074.18 | 4085157.99 | 0.00066779 | 9.66E-03 | 7.13E-03 | 7.12E-03 | 3.97E-03 | 1.01E-04 | 1.47E-03 | 1.11E-03 | 1.11E-03 | 6.11E-04 | 5.50E-05 | 7.96E-04 | 4.95E-04 | 4.95E-04 | 2.45E-04 |
| 2014 | 258098.47 | 4085156.92 | 0.00065038 | 9.41E-03 | 6.93E-03 | 6.93E-03 | 3.87E-03 | 9.87E-05 | 1.43E-03 | 1.08E-03 | 1.08E-03 | 5.96E-04 | 5.36E-05 | 7.75E-04 | 4.62E-04 | 4.82E-04 | 2.38E-04 |
| 2015 | 258122.75 | 4085155.84 | 0.00064177 | 9.28E-03 | 6.84E-03 | 6.84E-03 | 3.81E-03 | 9.74E-05 | 1.41E-03 | 1.07E-03 | 1.07E-03 | 5.87E-04 | 5.29E-05 | 7.65E-04 | 4.75E-04 | 4.75E-04 | 2.35E-04 |
| 2016 | 258147.03 | 4085154.76 | 0.00063172 | 9.14E-03 | 8.73E-03 | 6.73E-03 | 3.75E-03 | 9.59E-05 | 1.39E-03 | 1.05E-03 | 1.05E-03 | 5.78E-04 | 5.21E-05 | 7.53E-04 | 4.68E-04 | 4.68E-04 | 2.32E-04 |
| 2017 | 258171.31 | 4085153.69 | 0.00061917 | 8.96E-03 | 6.60E-03 | 6.60E-03 | 3.66E-03 | 9.40E-05 | 1.36E-03 | 1.03E-03 | 1.03E-03 | 5.67E-04 | 5.10E-05 | 7.38E-04 | 4.59E-04 | 4.59E-04 | 2.27E-04 |
| 2018 | 258195.59 | 4085152.61 | 0.00060295 | 8.72E-03 | 6.43E-03 | 6.43E-03 | 3.58E-03 | 9.15E-05 | 1.33E-03 | 1.00E-03 | 1.00E-03 | 5.52E-04 | 4.97E-05 | 7.19E-04 | 4.47E-04 | 4.47E-04 | 2.21E-04 |
| 2019 | 258219.88 | 4085151.54 | 0.00058194 | 8.42E-03 | 6.20E-03 | 6.20E-03 | 3.46E-03 | 8.83E-05 | 1.78E-03 | 9.69E-04 | 9.69E-04 | 5.33E-04 | 4.80E-05 | 6.94E-04 | 4.31E-04 | 4.31E-04 | 2.13E-04 |
| 2020 | 258244.16 | 4085150.46 | 0.00055467 | 8.02E-03 | 5.91E-03 | 5.91E-03 | 3.30E-03 | 8.42E-05 | 1.22E-03 | 9.23E-04 | 9.23E-04 | 5.08E-04 | 4.57E-05 | 6.61E-04 | 4.11E-04 | 4.11E-04 | 2.03E-04 |
| 2021 | 258258.44 | 4085149.39 | 0.0005182 | 7.50E-03 | 5.52E-03 | 5.52E-03 | 3.08E-03 | 7.86E-05 | 1.14E-03 | 6.63E-04 | 8.62E-04 | 4.74E-04 | 4.27E-05 | 6.18E-04 | 3.84E-04 | 3.84E-04 | 1.90E-04 |
| 2022 | 258292.72 | 4085148.31 | 0.00046847 | 6.78E-03 | 4.99E-03 | 4.99E-03 | 2.78E-03 | 7.11E-05 | 1.03E-03 | 7.80E-04 | 7.80E-04 | 4.29E-04 | 3.86E-05 | 5.59E-04 | 3.47E-04 | 3.47E-04 | 1.77E-04 |
| 2023 | 258317 | 4085147.24 | 0.00039997 | 5.79E-03 | 4.26E-03 | 4.26E-03 | 2.38E-03 | 6.07E-05 | 8.81E-04 | 6.66E-04 | 6.66E-04 | 3.66E-04 | 3.30E-05 | 4.77E-04 | 2.96E-04 | 2.96E-04 | 1.47E-04 |
| 2024 | 258341.28 | 4085146.16 | 0.00033149 | 4.51E-03 | 3.32E-03 | 3.31E-03 | 1.85E-03 | 4.73E-05 | 6.86E-04 | 3.18E-04 | 5.18E-04 | 2.85E-04 | 2.57E-05 | 3.71E-04 | 2.31E-04 | 2.31E-04 | 1.14E-04 |
| 2025 | 258365.57 | 4085145.09 | 0.00032417 | 3.24E-03 | 2.39E-03 | 2.39E-03 | 1.33E-03 | 3.40E-05 | 4.94E-04 | 3.73E-04 | 3.73E-04 | 2.05E-04 | 1.85E-05 | 2.67E-04 | 1.66E-04 | 1.66E-04 | 8.22E-03 |
| 2026 | 257547.32 | 4085198.96 | 0.00031652 | 4.58E-03 | 3.37E-03 | 3.37E-03 | 1.88E-03 | 4.80E-05 | 6.97E-04 | 5.27E-04 | 5.27E-04 | 2.90E-04 | 2.61E-05 | 3.77E-04 | 2.34E-04 | 2.34E-04 | 1.16E-04 |
| 2027 | 257589.63 | 4085204.48 | 0.0003681 | 5.32E-03 | 3.92E-03 | 3.92E-03 | 2.19E-03 | 5.59E-05 | 8.11E-04 | 6.13E-04 | 6.13E-04 | 3.37E-04 | 3.03E-06 | 4.39E-04 | 2.77E-04 | 2.77E-04 | 1.35E-04 |
| 2028 | 257613.94 | 4085203.4 | 0.0003955 | 5.72E-03 | 4.22E-05 | 4.22E-03 | 2.35E-03 | 6.00E-05 | 6.71E-04 | 6.58E-04 | 6.58E-04 | 3.62E-04 | 3.26E-06 | 4.72E-04 | 2.93E-04 | 2.93E-04 | 1.45E-04 |
| 2029 | 257638.22 | 4085202.32 | 0.00041478 | 6.00E-03 | 4.42E-03 | 4.42E-03 | 2.47E-03 | 6.30E-05 | 9.14E-04 | 6.90E-04 | 6.90E-04 | 3.80E-04 | 3.42E-05 | 4.95E-04 | 3.07E-04 | 3.07E-04 | 1.52E-04 |
| 2030 | 257662.5 | 4085201.25 | 0.00042864 | 6.20E-03 | 4.57E-03 | 4.57E-03 | 2.55E-03 | 6.51E-05 | 9.44E-04 | 7.13E-04 | 7.13E-04 | 3.92E-04 | 3.53E-05 | 3.11E-04 | 3.17E-04 | 3.17E-04 | 1.57E-04 |
| 2031 | 257686.78 | 4085200.17 | 0.00043901 | 6.35E-03 | 4.68E-03 | 4.68E-03 | 2.61E-03 | 6.66E-05 | 9.67E-04 | 7.31E-04 | 7.31E-04 | 4.02E-04 | 3.62E-05 | 3.23E-04 | 3.25E-04 | 3.25E-04 | 1.61E-04 |
| 2032 | 257711.06 | 4085199.1 | 0.00044683 | 6.48E-03 | 4.78E-03 | 4.76E-03 | 2.66E-03 | 6.78E-05 | 9.85E-04 | 7.44E-04 | 7.44E-04 | 4.09E-04 | 3.68E-05 | 5.33E-04 | 3.31E-04 | 3.31E-04 | 1.84E-04 |
| 2033 | 257735.55 | 4085198.02 | 0.00045289 | 6.55E-03 | 4.63E-03 | 4.83E-03 | 2.69E-03 | 6.87E-05 | 9.98E-04 | 7.54E-04 | 7.54E-04 | 4.14E-04 | 3.73E-05 | 5.40E-04 | 3.35E-04 | 3.35E-04 | 1.66E-04 |
| 2034 | 257759.63 | 4085196.95 | 0.00045751 | 6.62E-03 | 4.88E-03 | 4.88E-03 | 2.72E-03 | 6.94E-05 | 1.01E-03 | 7.62E-04 | 7.62E-04 | 4.19E-04 | 3.77E-05 | 5.45E-04 | 3.39E-04 | 3.39E-04 | 1.68E-04 |
| 2035 | 257763.91 | 4085195.87 | 0.0004611 | 6.67E-03 | 4.92E-03 | 4.92E-03 | 2.74E-03 | 7.00E-05 | 1.02E-03 | 7.68E-04 | 7.68E-04 | 4.22E-04 | 3.80E-05 | 5.50E-04 | 3.41E-04 | 3.41E-04 | 1.69E-04 |
| 2036 | 257808.19 | 4085194.8 | 0.00046373 | 6.71E-03 | 4.94E-03 | 4.94E-03 | 2.76E-03 | 7.04E-05 | 1.02E-03 | 7.77E-04 | 7.77E-04 | 4.24E-04 | 3.62E-06 | 5.53E-04 | 3.43E-04 | 3.43E-04 | 1.70E-04 |
| 2037 | 257832.47 | 4085193.77 | 0.00046567 | 6.74E-03 | 4.96E-03 | 4.96E-03 | 2.77E-03 | 7.07E-05 | 1.03E-03 | 7.75E-04 | 7.75E-04 | 4.26E-04 | 3.84E-06 | 5.55E-04 | 3.45E-04 | 3.45E-04 | 1.71E-04 |
| 2038 | 257856.75 | 4085192.65 | 0.00046686 | 6.75E-03 | 4.98E-03 | 4.98E-03 | 2.77E-03 | 7.09E-06 | 1.03E-03 | 7.77E-04 | 7.77E-04 | 4.27E-04 | 3.85E-05 | 5.57E-04 | 3.46E-04 | 3.46E-04 | 1.71E-04 |
| 2039 | 257881.04 | 4085191.57 | 0.00046748 | 6.76E-03 | 4.98E-03 | 4.98E-03 | 2.78E-03 | 7.09E-05 | 1.03E-03 | 7.78E-04 | 7.78E-04 | 4.28E-04 | 3.85E-05 | 5.57E-04 | 3.46E-04 | 3.46E-04 | 1.71E-04 |
| 2040 | 257905.32 | 4085190.49 | 0.00046749 | 6.76E-03 | 4.98E-03 | 4.98E-03 | 2.78E-03 | 7.10E-05 | 1.03E-03 | 7.78E-04 | 7.78E-04 | 4.28E-04 | 3.85E-05 | 5.57E-04 | 3.46E-04 | 3.46E-04 | 1.71E-04 |
| 2041 | 257979.6 | 4085189.42 | 0.00046682 | 6.75E-03 | 4.98E-03 | 4.98E-03 | 2.77E-03 | 7.08E-05 | 1.03E-03 | 7.77E-04 | 7.77E-04 | 4.27E-04 | 3.85E-05 | 5.57E-04 | 3.46E-04 | 3.46E-04 | 1.71E-04 |
| 2042 | 257953.88 | 4085188.34 | 0.00046562 | 6.73E-03 | 4.96E-03 | 4.96E-03 | 2.77E-03 | 7.07E-05 | 1.03E-03 | 7.75E-04 | 7.75E-04 | 4.26E-04 | 3.84E-05 | 5.55E-04 | 3.45E-04 | 3.45E-04 | 1.71E-04 |
| 2043 | 257978.16 | 4085187.27 | 0.00045802 | 6.62E-03 | 4.86E-03 | 4.88E-03 | 2.77E-03 | 6.95E-06 | 1.01E-03 | 7.62E-04 | 7.62E-04 | 4.19E-04 | 3.78E-05 | 5.46E-04 | 3.39E-04 | 3.39E-04 | 1.68E-04 |
| 2044 | 258002.45 | 4085186.19 | 0.00045541 | 6.59E-03 | 4.85E-03 | 4.85E-03 | 2.71E-03 | 6.91E-05 | 1.00E-03 | 7.58E-04 | 7.58E-04 | 4.17E-04 | 3.73E-05 | 5.43E-04 | 3.37E-04 | 3.37E-04 | 1.67E-04 |
| 2045 | 258026.77 | 4085185.12 | 0.00045211 | 6.54E-03 | 4.82E-03 | 4.82E-03 | 2.69E-03 | 6.86E-05 | 9.96E-04 | 7.53E-04 | 7.53E-04 | 4.14E-04 | 3.73E-05 | 5.39E-04 | 3.35E-04 | 3.35E-04 | 1.66E-04 |
| 2046 | 258051.01 | 4085184.04 | 0.00044796 | 6.48E-03 | 4.78E-03 | 4.78E-03 | 2.66E-03 | 6.80E-05 | 9.87E-04 | 7.46E-04 | 7.46E-04 | 4.10E-04 | 3.69E-05 | 5.34E-04 | 3.32E-04 | 3.32E-04 | 1.64E-04 |
| 2047 | 258075.79 | 4085182.97 | 0.0004427 | 6.40E-03 | 4.72E-03 | 4.72E-03 | 2.63E-03 | 6.72E-05 | 9.75E-04 | 7.37E-04 | 7.37E-04 | 4.05E-04 | 3.65E-05 | 5.28E-04 | 3.28E-04 | 3.28E-04 | 1.62E-04 |
| 2048 | 258099.57 | 4085181.89 | 0.00043624 | 6.31E-03 | 4.65E-03 | 4.65E-03 | 2.59E-03 | 6.62E-05 | 9.61E-04 | 7.26E-04 | 7.26E-04 | 3.99E-04 | 3.60E-05 | 5.20E-04 | 3.23E-04 | 3.23E-04 | 1.60E-04 |
| 2049 | 258123.85 | 4085180.82 | 0.0004282 | 6.19E-03 | 4.56E-03 | 4.56E-03 | 2.54E-03 | 6.50E-05 | 9.44E-04 | 7.13E-04 | 7.13E-04 | 3.92E-04 | 3.53E-06 | 5.11E-04 | 3.17E-04 | 3.17E-04 | 1.57E-04 |
| 2050 | 258148.14 | 4085179.74 | 0.00041836 | 6.05E-03 | 4.46E-03 | 4.46E-03 | 2.49E-03 | 6.35E-06 | 9.22E-04 | 6.96E-04 | 6.96E-04 | 3.83E-04 | 3.45E-06 | 4.99E-04 | 3.10E-04 | 3.10E-04 | 1.53E-04 |
| 2051 | 258172.42 | 4085178.66 | 0.0004062 | 5.88E-03 | 4.33E-03 | 4.33E-03 | 2.41E-03 | 6.16E-05 | 8.95E-04 | 6.76E-04 | 6.76E-04 | 3.72E-04 | 3.33E-05 | 4.84E-04 | 3.01E-04 | 5.01E-04 | 1.49E-04 |
| 2052 | 258196.7 | 4085177.39 | 0.00039103 | 5.66E-03 | 4.17E-03 | 4.17E-03 | 2.52E-03 | 5.93E-05 | 8.62E-04 | 6.51E-04 | 6.51E-04 | 3.58E-04 | 3.22E-05 | 4.66E-04 | 2.90E-04 | 2.90E-04 | 1.43E-04 |
| 2053 | 258220.98 | 4085176.31 | 0.00037716 | 5.38E-03 | 3.97E-03 | 3.97E-03 | 2.21E-03 | 5.65E-05 | 6.20E-04 | 6.19E-04 | 8.19E-04 | 3.41E-04 | 3.07E-05 | 4.44E-04 | 2.76E-04 | 2.76E-04 | 1.36E-04 |
| 2054 | 258245.26 | 4085175.44 | 0.00034845 | 5.04E-03 | 3.71E-03 | 3.71E-03 | 2.07E-03 | 5.79E-05 | 7.68E-04 | 5.80E-04 | 5.80E-04 | 3.19E-04 | 2.87E-05 | 4.15E-04 | 2.58E-04 | 2.58E-04 | 1.28E-04 |
| 2055 | 258269.53 | 4085174.36 | 0.00031901 | 4.61E-03 | 3.40E-03 | 3.40E-03 | 1.90E-03 | 4.84E-05 | 7.03E-04 | 5.31E-04 | 5.31E-04 | 2.92E-04 | 2.63E-05 | 3.80E-04 | 2.36E-04 | 2.36E-04 | 1.17E-04 |
| 2056 | 258293.83 | 4085173.29 | 0.00028294 | 4.09E-03 | 3.02E-03 | 3.02E-03 | 1.68E-03 | 4.79E-05 | 6.23E-04 | 4.71E-04 | 4.77E-04 | 2.59E-04 | 2.33E-05 | 3.37E-04 | 2.10E-04 | 2.10E-04 | 1.04E-04 |
| 2057 | 258318.11 | 4085172.21 | 0.00024053 | 3.48E-03 | 2.56E-03 | 2.56E-03 | 1.43E-03 | 3.65E-05 | 5.30E-04 | 4.00E-04 | 4.00E-04 | 2.20E-04 | 1.98E-05 | 2.87E-04 | 1.78E-04 | 1.78E-04 | 8.82E-05 |
| 2058 | 258342.39 | 4085171.14 | 0.00019516 | 2.82E-03 | 2.08E-03 | 2.08E-03 | 1.16E-03 | 2.96E-05 | 4.30E-04 | 3.25E-04 | 3.25E-04 | 1.79E-04 | 1.61E-05 | 2.33E-04 | 1.45E-04 | 1.45E-04 | 7.15E-05 |
| 2059 | 257548.43 | 4085223.93 | 0.00025224 | 3.65E-03 | 2.69E-03 | 2.69E-03 | 1.50E-03 | 3.83E-06 | 5.56E-04 | 4.20E-04 | 4.20E-04 | 2.31E-04 | 2.08E-05 | 3.01E-04 | 1.87E-04 | 1.87E-04 | 9.25E-05 |
| 2060 | 257504.29 | 4085193.29 | 0.0002261 | 3.27E-03 | 2.41E-03 | 2.41E-03 | 1.34E-03 | 3.43E-05 | 4.98E-04 | 3.76E-04 | 3.76E-04 | 2.07E-04 | 1.66E-05 | 2.70E-04 | 1.67E-04 | 1.67E-04 | 8.29E-05 |
| 2061 | 257590.26 | 4085229.45 | 0.00027997 | 4.05E-03 | 2.98E-03 | 2.98E-03 | 1.66E-03 | 4.25E-05 | 6.17E-04 | 4.66E-04 | 4.66E-04 | 2.56E-04 | 2.31E-05 | 3.34E-04 | 2.07E-04 | 2.07E-04 | 1.03E-04 |
| 2062 | 257615.04 | 4085228.38 | 0.00029741 | 4.30E-03 | 3.17E-03 | 3.17E-03 | 1.77E-03 | 4.51E-05 | 6.55E-04 | 4.95E-04 | 4.95E-04 | 2.72E-04 | 2.45E-05 | 3.55E-04 | 2.20E-04 | 2.20E-04 | 1.09E-04 |
| 2063 | 257639.32 | 4085227.3 | 0.00031076 | 4.49E-03 | 3.31E-03 | 3.32E-03 | 1.85E-03 | 4.72E-05 | 6.85E-04 | 5.17E-04 | 5.17E-04 | 2.84E-04 | 2.56E-06 | 3.70E-04 | 2.30E-04 | 2.30E-04 | 1.14E-04 |
| 2064 | 257663.61 | 4085226.22 | 0.00022091 | 4.64E-03 | 3.42E-03 | 3.42E-03 | 1.91E-03 | 4.87E-05 | 7.07E-04 | 5.34E-04 | 5.34E-04 | 2.94E-04 | 2.65E-05 | 3.62E-04 | 2.38E-04 | 2.38E-04 | 1.16E-04 |
| 2065 | 257687.89 | 4085225.15 | 0.00032867 | 4.75E-03 | 3.50E-03 | 3.50E-03 | 1.95E-03 | 4.99E-05 | 7.24E-04 | 5.47E-04 | 5.47E-04 | 3.01E-04 | 2.71E-05 | 3.92E-04 | 2.43E-04 | 2.43E-04 | 1.20E-04 |
| 2066 | 257713.17 | 4085224.07 | 0.00033469 | 4.84E-03 | 3.57E-03 | 3.57E-03 | 1.99E-03 | 5.08E-05 | 7.37E-04 | 5.57E-04 | 5.57E-04 | 3.06E-04 | 2.76E-05 | 3.99E-04 | 2.48E-04 | 2.48E-04 | 1.23E-04 |
| 2067 | 257736.45 | 4085223 | 0.00033933 | 4.91E-03 | 3.62E-03 | 3.62E-03 | 2.07E-03 | 5.15E-05 | 7.48E-04 | 5.65E-04 | 5.65E-04 | 3.11E-04 | 2.80E-05 | 4.05E-04 | 2.51E-04 | 2.51E-04 | 1.24E-04 |
| 2068 | 257760.73 | 4085221.92 | 0.00034296 | 4.96E-03 | 3.66E-03 | 3.66E-03 | 2.04E-03 | 5.21E-05 | 7.56E-04 | 5.77E-04 | 5.71E-04 | 3.14E-04 | 2.62E-05 | 4.09E-04 | 2.54E-04 | 2.54E-04 | 1.26E-04 |
| 2069 | 257785.01 | 4085220.85 | 0.0003457 | 5.00E-03 | 3.69E-03 | 3.69E-03 | 2.05E-03 | 5.25E-06 | 7.62E-04 | 5.75E-04 | 5.75E-04 | 3.16E-04 | 2.85E-06 | 4.12E-04 | 2.56E-04 | 2.56E-04 | 1.27E-04 |
| 2070 | 257809.3 | 4085219.77 | 0.00034775 | 5.03E-03 | 3.71E-03 | 3.71E-03 | 2.07E-03 | 5.28E-06 | 7.66E-04 | 5.79E-04 | 5.79E-04 | 3.18E-04 | 2.87E-05 | 4.15E-04 | 2.58E-04 | 2.58E-04 | 1.27E-04 |
| 2071 | 257833.58 | 4085218.7 | 0.00034913 | 5.05E-03 | 3.72E-03 | 3.72E-03 | 2.07E-03 | 5.30E-05 | 7.69E-04 | 5.81E-04 | 5.81E-04 | 3.19E-04 | 2.88E-05 | 4.16E-04 | 2.39E-04 | 2.39E-04 | 1.28E-04 |
| 2077 | 257857.86 | 4085217.62 | 0.00034998 | 5.06E-03 | 3.73E-03 | 3.73E-03 | 2.08E-03 | 5.31E-05 | 7.71E-04 | 5.83E-04 | 5.83E-04 | 3.20E-04 | 2.88E-05 | 4.17E-04 | 2.39E-04 | 2.59E-04 | 1.28E-04 |
| 2073 | 257882.14 | 4085216.55 | 0.00035024 | 5.07E-03 | 3.73E-03 | 3.73E-03 | 2.08E-03 | 5.32E-05 | 7.72E-04 | 5.83E-04 | 5.83E-04 | 3.21E-04 | 2.89E-05 | 4.38E-04 | 2.59E-04 | 2.59E-04 | 1.28E-04 |
| 2074 | 257906.42 | 4085215.47 | 0.00034867 | 5.04E-03 | 3.72E-03 | 3.72E-03 | 2.07E-03 | 5.29E-05 | 7.68E-04 | 5.80E-04 | 5.80E-04 | 3.19E-04 | 2.87E-05 | 4.16E-04 | 2.58E-04 | 2.58E-04 | 1.28E-04 |
| 2075 | 257930.71 | 4085214.39 | 0.00034548 | 5.00E-03 | 3.68E-03 | 3.68E-03 | 2.05E-03 | 5.24E-05 | 7.61E-04 | 5.75E-04 | 5.75E-04 | 3.16E-04 | 2.85E-06 | 4.13E-04 | 2.56E-04 | 2.56E-04 | 1.27E-04 |
| 2076 | 257954.99 | 4085213.32 | 0.00034407 | 4.98E-03 | 3.67E-03 | 3.67E-03 | 2.04E-03 | 5.22E-05 | 7.58E-04 | 5.77E-04 | 5.77E-04 | 3.15E-04 | 2.84E-05 | 4.10E-04 | 2.55E-04 | 2.55E-04 | 1.26E-04 |
| 2077 | 257979.27 | 4085212.24 | 0.00034208 | 4.95E-03 | 3.65E-03 | 3.65E-03 | 2.03E-03 | 5.19E-06 | 7.54E-04 | 5.69E-04 | 5.69E-04 | 3.13E-04 | 2.62E-06 | 4.08E-04 | 2.53E-04 | 2.53E-04 | 1.25E-04 |
| 2078 | 258003.55 | 4085211.17 | 0.00033939 | 4.91E-03 | 3.62E-03 | 3.62E-03 | 2.02E-03 | 5.15E-05 | 7.48E-04 | 5.65E-04 | 5.65E-04 | 3.11E-04 | 2.80E-05 | 4.05E-04 | 2.51E-04 | 2.51E-04 | 1.24E-04 |
| 2079 | 258027.83 | 4085210.09 | 0.00033596 | 4.86E-03 | 3.58E-03 | 3.58E-03 | 2.00E-03 | 5.10E-05 | 7.40E-04 | 5.59E-04 | 5.59E-04 | 3.07E-04 | 2.77E-05 | 4.01E-04 | 2.49E-04 | 2.49E-04 | 1.23E-04 |
| 2080 | 258052.11 | 4085209.02 | 0.00033165 | 4.80E-03 | 3.54E-03 | 3.54E-03 | 1.97E-03 | 5.03E-05 | 7.31E-04 | 5.52E-04 | 5.52E-04 | 3.03E-04 | 2.73E-05 | 3.95E-04 | 2.46E-04 | 2.46E-04 | 1.22E-04 |
| 2081 | 258076.4 | 4085207.94 | 0.00032638 | 4.72E-03 | 3.48E-03 | 3.48E-03 | 1.94E-03 | 4.93E-05 | 7.19E-04 | 5.43E-04 | 5.43E-04 | 2.99E-04 | 2.69E-05 | 3.89E-04 | 2.42E-04 | 2.42E-04 | 1.20E-04 |
| 2082 | 258100.68 | 4085206.87 | 0.00031993 | 4.63E-03 | 3.41E-03 | 3.41E-03 | 1.90E-03 | 4.86E-05 | 7.05E-04 | 5.33E-04 | 5.33E-04 | 2.93E-04 | 2.64E-05 | 3.81E-04 | 2.37E-04 | 2.37E-04 | 1.17E-04 |
| 2083 | 258124.96 | 4085205.79 | 0.00031217 | 4.52E-03 | 3.33E-03 | 3.33E-03 | 1.86E-03 | 4.74E-05 | 6.88E-04 | 5.20E-04 | 5.20E-04 | 2.86E-04 | 2.57E-05 | 3.72E-04 | 2.31E-04 | 2.31E-04 | 1.14E-04 |
| 2084 | 258149.24 | 4085204.77 | 0.00030279 | 4.38E-03 | 3.23E-03 | 3.23E-03 | 1.80E-03 | 4.60E-05 | 6.67E-04 | 5.04E-04 | 5.04E-04 | 2.77E-04 | 2.50E-05 | 3.61E-04 | 2.24E-04 | 2.24E-04 | 1.11E-04 |
| 2085 | 258173.52 | 4085203.64 | 0.00029155 | 4.22E-03 | 3.11E-03 | 3.11E-03 | 1.73E-03 | 4.42E-05 | 6.42E-04 | 4.85E-04 | 4.85E-04 | 2.67E-04 | 2.40E-05 | 3.48E-04 | 2.16E-04 | 2.16E-04 | 1.07E-04 |
| 2086 | 258197.81 | 4085202.56 | 0.00027796 | 4.02E-03 | 2.96E-03 | 2.96E-03 | 1.65E-03 | 4.22E-06 | 6.12E-04 | 4.62E-04 | 4.63E-04 | 2.54E-04 | 2.29E-05 | 3.31E-04 | 2.06E-04 | 2.06E-04 | 1.02E-04 |
| 2087 | 258222.09 | 4085201.49 | 0.00026167 | 3.78E-03 | 2.79E-03 | 2.79E-03 | 1.56E-03 | 3.97E-05 | 5.77E-04 | 4.36E-04 | 4.36E-04 | 2.39E-04 | 2.16E-05 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1869 | 256968.83 | 4084106.26 | 1.7868E-06 | 2.58E-05 | 1.90E-05 | 1.90E-05 | 1.06E-06 | 2.71E-07 | 3.94E-06 | 2.97E-06 | 2.97E-06 | 1.64E-06 | 1.47E-07 | 2.13E-06 | 1.32E-06 | 1.32E-06 | 8.55E-07 |
| 1870 | 257008.96 | 4084087.72 | 0.000001793 | 2.59E-05 | 1.91E-05 | 1.91E-05 | 1.07E-06 | 2.72E-07 | 3.95E-06 | 2.98E-06 | 2.98E-06 | 1.64E-06 | 1.48E-07 | 2.14E-06 | 1.33E-06 | 1.33E-06 | 6.57E-07 |
| 1871 | 257049.08 | 4084069.19 | 1.7868E-06 | 2.58E-05 | 1.90E-05 | 1.90E-05 | 1.06E-05 | 2.71E-07 | 3.94E-06 | 2.97E-06 | 2.97E-06 | 1.64E-06 | 1.47E-07 | 2.13E-06 | 1.32E-06 | 1.32E-06 | 6.55E-07 |
| 1872 | 257089.21 | 4084050.65 | 1.7704E-06 | 2.56E-05 | 1.89E-05 | 1.89E-05 | 1.05E-06 | 2.69E-07 | 3.90E-06 | 2.95E-06 | 2.95E-06 | 1.62E-06 | 1.46E-07 | 2.11E-06 | 1.31E-06 | 1.31E-06 | 6.49E-07 |
| 1873 | 257129.34 | 4084032.11 | 1.7458E-06 | 2.53E-06 | 1.86E-05 | 1.86E-06 | 1.04E-05 | 2.65E-07 | 3.85E-06 | 2.91E-06 | 2.91E-06 | 1.60E-06 | 1.44E-07 | 2.08E-06 | 1.29E-06 | 1.29E-06 | 6.40E-07 |
| 1874 | 257169.47 | 4084013.57 | 1.7192E-06 | 2.49E-06 | 1.83E-05 | 1.83E-06 | 1.02E-05 | 2.61E-07 | 3.79E-06 | 2.86E-06 | 2.86E-06 | 1.57E-06 | 1.42E-07 | 2.05E-06 | 1.27E-06 | 1.27E-06 | 6.30E-07 |
| 1875 | 257209.59 | 4083995.03 | 1.6926E-06 | 2.45E-05 | 1.80E-05 | 1.80E-05 | 1.01E-05 | 2.57E-07 | 3.73E-06 | 2.82E-06 | 2.82E-06 | 1.55E-06 | 1.40E-07 | 2.02E-06 | 1.25E-06 | 1.25E-06 | 6.20E-07 |
| 1876 | 257249.72 | 4083976.5 | 0.00000167 | 2.42E-05 | 1.78E-05 | 1.78E-05 | 9.93E-06 | 2.53E-07 | 3.68E-06 | 2.78E-06 | 2.78E-06 | 1.53E-06 | 1.38E-07 | 1.99E-06 | 1.24E-06 | 1.24E-06 | 6.12E-07 |
| 1877 | 257289.85 | 4083957.96 | 1.6557E-06 | 2.39E-05 | 1.77E-05 | 1.77E-05 | 9.84E-06 | 2.51E-07 | 3.63E-06 | 2.76E-06 | 2.76E-06 | 1.52E-06 | 1.36E-07 | 1.97E-06 | 1.25E-06 | 1.23E-06 | 6.07E-07 |
| 1878 | 257329.97 | 4083939.42 | 1.6475E-06 | 2.38E-05 | 1.76E-06 | 1.76E-06 | 9.79E-06 | 2.50E-07 | 3.63E-06 | 2.74E-06 | 2.74E-06 | 1.51E-05 | 1.36E-07 | 1.96E-06 | 1.22E-06 | 1.22E-05 | 6.04E-07 |
| 1879 | 257370.1 | 4083920.88 | 1.6475E-06 | 2.38E-05 | 1.76E-05 | 1.76E-05 | 9.79E-06 | 2.50E-07 | 3.63E-06 | 2.74E-06 | 2.74E-06 | 1.51E-06 | 1.36E-07 | 1.96E-06 | 1.22E-06 | 1.12E-06 | 6.04E-07 |
| 1880 | 257410.23 | 4083902.34 | 1.6516E-06 | 2.39E-05 | 1.76E-05 | 1.76E-05 | 9.82E-06 | 2.51E-07 | 3.64E-06 | 2.75E-06 | 2.75E-06 | 1.51E-06 | 1.36E-07 | 1.97E-06 | 1.22E-06 | 1.22E-06 | 6.05E-07 |
| 1881 | 257450.36 | 4083883.81 | 1.6598E-06 | 2.40E-05 | 1.77E-05 | 1.77E-05 | 9.86E-06 | 2.52E-07 | 3.66E-06 | 2.76E-06 | 2.76E-06 | 1.52E-05 | 1.37E-07 | 1.98E-06 | 1.25E-06 | 1.23E-06 | 6.08E-07 |
| 1882 | 256457.31 | 4085018.08 | 4.7244E-06 | 6.91E-05 | 5.09E-05 | 5.09E-05 | 2.84E-06 | 7.25E-07 | 1.05E-05 | 7.95E-05 | 7.95E-06 | 4.37E-05 | 3.94E-07 | 5.69E-06 | 3.54E-06 | 3.54E-06 | 1.75E-06 |
| 1883 | 256458.96 | 4085062.64 | 5.0592E-06 | 7.32E-05 | 5.39E-05 | 5.39E-05 | 3.01E-05 | 7.68E-07 | 1.11E-05 | 8.42E-06 | 8.42E-06 | 4.63E-05 | 4.17E-07 | 6.03E-06 | 3.75E-06 | 3.75E-06 | 1.85E-06 |
| 1884 | 256460.61 | 4085107.2 | 5.2457E-06 | 7.59E-05 | 5.59E-05 | 5.59E-05 | 3.12E-05 | 7.95E-07 | 1.16E-05 | 8.73E-06 | 8.73E-06 | 4.80E-06 | 4.32E-07 | 6.25E-06 | 3.88E-06 | 3.88E-06 | 1.92E-06 |
| 1885 | 256462.26 | 4085251.72 | 5.3625E-06 | 7.78E-05 | 5.72E-05 | 5.72E-05 | 3.19E-05 | 8.14E-07 | 1.18E-05 | 8.93E-06 | 8.93E-06 | 4.91E-06 | 4.42E-07 | 6.39E-06 | 3.97E-06 | 3.97E-06 | 1.97E-06 |
| 1886 | 256463.91 | 4085196.33 | 5.4588E-06 | 7.90E-05 | 5.82E-05 | 5.82E-05 | 3.24E-05 | 8.28E-07 | 1.20E-05 | 9.09E-06 | 9.09E-06 | 5.00E-06 | 4.50E-07 | 6.51E-06 | 4.04E-06 | 4.04E-06 | 2.00E-06 |
| 1887 | 256364.28 | 4084982.52 | 3.6113E-06 | 5.51E-05 | 4.05E-05 | 4.06E-05 | 2.27E-06 | 5.78E-07 | 8.40E-06 | 6.34E-05 | 6.34E-05 | 3.49E-06 | 3.14E-07 | 4.54E-06 | 2.82E-06 | 2.82E-06 | 1.40E-06 |
| 1888 | 256279.6 | 4084941.25 | 3.5675E-06 | 5.16E-05 | 3.80E-05 | 3.80E-05 | 2.12E-06 | 5.41E-07 | 7.85E-06 | 5.94E-06 | 5.94E-06 | 3.26E-06 | 2.94E-07 | 4.25E-06 | 2.84E-06 | 2.64E-06 | 1.31E-06 |
| 1889 | 256294.92 | 4084899.78 | 3.3195E-06 | 4.80E-05 | 3.54E-05 | 3.54E-05 | 1.97E-05 | 5.04E-07 | 7.31E-06 | 5.53E-06 | 5.53E-06 | 3.04E-06 | 2.74E-07 | 3.96E-06 | 2.46E-06 | 2.46E-06 | 1.22E-06 |
| 1890 | 256310.24 | 4084858.42 | 3.0921E-06 | 4.47E-05 | 3.30E-05 | 3.30E-05 | 1.84E-05 | 4.69E-07 | 6.81E-06 | 5.15E-06 | 5.15E-06 | 2.83E-05 | 2.55E-07 | 3.69E-06 | 2.29E-06 | 2.29E-06 | 1.13E-06 |
| 1891 | 256325.56 | 4084817.05 | 2.8995E-06 | 4.19E-05 | 3.09E-05 | 3.09E-05 | 1.72E-05 | 4.40E-07 | 6.39E-06 | 4.83E-06 | 4.83E-06 | 2.65E-06 | 2.39E-07 | 3.46E-06 | 2.15E-06 | 2.15E-06 | 1.06E-06 |
| 1892 | 256340.87 | 4084775.68 | 2.7458E-06 | 3.97E-05 | 2.93E-05 | 2.93E-05 | 1.63E-05 | 4.17E-07 | 6.05E-06 | 4.57E-06 | 4.57E-06 | 2.51E-06 | 2.26E-07 | 3.27E-06 | 2.03E-06 | 2.03E-06 | 1.01E-06 |
| 1893 | 256356.19 | 4084734.31 | 2.6249E-06 | 3.80E-05 | 2.80E-05 | 2.80E-05 | 1.56E-05 | 3.98E-07 | 5.78E-06 | 4.37E-06 | 4.37E-05 | 2.40E-06 | 2.16E-07 | 3.13E-06 | 1.94E-06 | 1.94E-06 | 9.62E-07 |
| 1894 | 256271.51 | 4084692.95 | 2.5245E-06 | 3.66E-05 | 2.69E-05 | 2.69E-05 | 1.50E-05 | 3.83E-07 | 5.56E-06 | 4.20E-06 | 4.20E-05 | 2.31E-06 | 2.08E-07 | 3.01E-06 | 1.87E-06 | 1.87E-06 | 9.25E-07 |
| 1895 | 256386.83 | 4084651.56 | 2.4302E-06 | 3.51E-05 | 2.59E-05 | 2.59E-05 | 1.44E-05 | 3.69E-07 | 5.35E-06 | 4.05E-06 | 4.05E-06 | 2.22E-06 | 2.00E-07 | 2.90E-06 | 1.80E-06 | 1.80E-06 | 8.91E-07 |
| 1696 | 256402.15 | 4084610.21 | 2.3278E-06 | 3.37E-05 | 2.48E-05 | 2.48E-05 | 1.38E-05 | 3.53E-07 | 5.13E-06 | 3.87E-06 | 3.87E-06 | 2.13E-06 | 1.92E-07 | 2.78E-06 | 1.72E-06 | 1.72E-06 | 6.53E-07 |
| 1697 | 256417.47 | 4084568.84 | 0.000002211 | 3.20E-05 | 2.36E-05 | 2.36E-05 | 1.31E-05 | 3.36E-07 | 4.87E-06 | 3.68E-06 | 3.68E-06 | 2.02E-06 | 1.82E-07 | 2.64E-06 | 1.64E-06 | 1.64E-06 | 8.10E-07 |
| 1898 | 256432.79 | 4084527.48 | 2.0757E-06 | 3.00E-05 | 2.21E-05 | 2.21E-05 | 1.23E-05 | 3.15E-07 | 4.57E-06 | 3.46E-06 | 3.46E-06 | 1.90E-06 | 1.71E-07 | 2.47E-06 | 1.54E-06 | 1.54E-06 | 7.61E-07 |
| 1899 | 256448.11 | 4084486.11 | 1.9282E-06 | 2.79E-05 | 2.06E-05 | 2.06E-06 | 1.25E-05 | 2.93E-07 | 4.25E-06 | 3.21E-06 | 3.21E-06 | 1.76E-06 | 1.59E-07 | 2.30E-06 | 1.42E-06 | 1.43E-06 | 7.07E-07 |
| 1900 | 256463.43 | 4084444.74 | 1.7889E-06 | 2.59E-05 | 1.91E-05 | 1.91E-05 | 1.06E-05 | 2.71E-07 | 3.94E-06 | 2.98E-06 | 2.98E-06 | 1.64E-06 | 1.47E-07 | 2.13E-06 | 1.32E-06 | 1.32E-06 | 6.56E-07 |
| 1901 | 256478.74 | 4084403.37 | 0.00000167 | 2.42E-05 | 1.78E-05 | 1.78E-05 | 9.93E-06 | 2.53E-07 | 3.68E-06 | 2.78E-05 | 2.78E-06 | 1.53E-06 | 1.38E-07 | 1.99E-06 | 1.24E-06 | 1.24E-06 | 6.12E-07 |
| 1902 | 256494.06 | 4084362 | 1.5778E-06 | 2.28E-05 | 1.68E-05 | 1.68E-05 | 9.38E-06 | 2.39E-07 | 3.48E-06 | 2.61E-06 | 2.63E-06 | 1.44E-06 | 1.30E-07 | 1.88E-06 | 1.17E-06 | 1.17E-06 | 5.78E-07 |
| 1903 | 256509.38 | 4084320.64 | 1.5163E-06 | 2.19E-05 | 1.62E-05 | 1.62E-05 | 9.01E-06 | 2.30E-07 | 3.34E-06 | 2.52E-06 | 2.52E-06 | 1.39E-06 | 1.25E-07 | 1.81E-06 | 1.12E-06 | 1.12E-06 | 5.56E-07 |
| 1904 | 256524.7 | 4084279.27 | 1.4794E-06 | 2.14E-05 | 1.58E-05 | 1.56E-05 | 8.79E-06 | 2.25E-07 | 3.26E-06 | 2.46E-06 | 2.46E-06 | 1.35E-06 | 1.22E-07 | 1.76E-06 | 1.10E-06 | 1.10E-06 | 5.42E-07 |
| 1905 | 256540.02 | 4084237.9 | 0.000001459 | 2.11E-05 | 1.56E-05 | 1.56E-05 | 8.67E-06 | 2.21E-07 | 3.21E-06 | 2.43E-06 | 2.43E-06 | 1.34E-06 | 1.20E-07 | 1.74E-06 | 1.03E-06 | 1.08E-06 | 5.25E-07 |
| 1906 | 256555.34 | 4084196.53 | 1.4467E-06 | 2.09E-05 | 1.54E-05 | 1.54E-05 | 8.60E-06 | 2.20E-07 | 3.19E-06 | 2.41E-06 | 2.41E-05 | 1.32E-06 | 1.19E-07 | 1.72E-06 | 1.07E-06 | 1.07E-05 | 5.30E-07 |
| 1907 | 256570.66 | 4084155.17 | 1.4364E-06 | 2.08E-05 | 1.53E-05 | 1.53E-05 | 8.54E-06 | 2.18E-07 | 3.17E-06 | 2.39E-06 | 2.39E-06 | 1.31E-06 | 1.18E-07 | 1.71E-06 | 1.06E-06 | 1.06E-06 | 5.27E-07 |
| 1908 | 256585.98 | 4084113.6 | 1.4262E-06 | 2.06E-05 | 1.52E-05 | 1.52E-05 | 8.48E-06 | 2.16E-07 | 3.14E-06 | 2.37E-06 | 2.37E-06 | 1.31E-06 | 1.18E-07 | 1.70E-06 | 1.06E-06 | 1.06E-06 | 5.23E-07 |
| 1909 | 256621.32 | 4084063.18 | 1.4159E-06 | 2.05E-05 | 1.51E-05 | 1.51E-05 | 8.42E-06 | 2.15E-07 | 3.12E-06 | 2.36E-06 | 2.36E-06 | 1.30E-06 | 1.17E-07 | 1.69E-06 | 1.05E-06 | 1.05E-06 | 5.19E-07 |
| 1910 | 256661.36 | 4084044.58 | 1.4282E-06 | 2.07E-05 | 1.52E-05 | 1.52E-05 | 8.49E-06 | 2.17E-07 | 3.15E-06 | 2.38E-06 | 2.38E-06 | 1.31E-06 | 1.18E-07 | 1.70E-06 | 1.06E-06 | 1.06E-06 | 5.24E-07 |
| 1911 | 256701.41 | 4084026.18 | 1.4364E-06 | 2.08E-05 | 1.53E-05 | 1.53E-05 | 8.54E-06 | 2.18E-07 | 3.17E-06 | 2.39E-06 | 2.39E-06 | 1.31E-06 | 1.18E-07 | 1.71E-06 | 1.06E-06 | 1.06E-06 | 5.27E-07 |
| 1912 | 256741.46 | 4084007.68 | 1.4446E-06 | 2.09E-05 | 1.54E-05 | 1.54E-05 | 8.59E-06 | 2.19E-07 | 3.18E-06 | 2.40E-06 | 2.40E-06 | 1.32E-06 | 1.19E-07 | 1.72E-06 | 1.07E-06 | 1.07E-06 | 5.30E-07 |
| 1913 | 256781.5 | 4083989.18 | 1.4528E-06 | 2.10E-05 | 1.55E-05 | 1.55E-05 | 8.63E-06 | 2.20E-07 | 3.20E-06 | 2.42E-06 | 2.42E-06 | 1.33E-06 | 1.20E-07 | 1.73E-06 | 1.08E-06 | 1.08E-06 | 5.33E-07 |
| 1914 | 256821.55 | 4083970.68 | 0.000001459 | 2.11E-05 | 1.56E-05 | 1.56E-05 | 8.67E-06 | 2.21E-07 | 3.21E-06 | 2.43E-05 | 2.43E-06 | 1.34E-06 | 1.20E-07 | 1.74E-06 | 1.08E-06 | 1.08E-06 | 5.35E-07 |
| 1925 | 256861.59 | 4083952.18 | 0.000001461 | 2.11E-05 | 1.56E-05 | 1.56E-05 | 8.68E-06 | 2.22E-07 | 3.22E-06 | 2.43E-06 | 2.42E-06 | 1.34E-06 | 1.20E-07 | 1.74E-06 | 1.08E-06 | 1.08E-06 | 5.36E-07 |
| 1916 | 256901.64 | 4083933.68 | 0.000001459 | 2.11E-05 | 1.56E-05 | 1.56E-05 | 8.67E-06 | 2.21E-07 | 3.21E-06 | 2.45E-06 | 2.43E-06 | 1.34E-06 | 1.20E-07 | 1.74E-06 | 1.08E-06 | 1.08E-06 | 5.35E-07 |
| 1917 | 256941.69 | 4083915.18 | 1.4508E-06 | 2.10E-05 | 1.55E-05 | 1.65E-06 | 8.62E-06 | 2.20E-07 | 3.20E-06 | 2.41E-06 | 2.41E-06 | 1.33E-06 | 1.20E-07 | 1.73E-06 | 1.07E-06 | 1.07E-05 | 5.32E-07 |
| 1918 | 256981.73 | 4083896.67 | 1.4385E-06 | 2.08E-05 | 1.53E-05 | 1.53E-05 | 8.65E-06 | 2.18E-07 | 3.17E-06 | 2.39E-06 | 2.39E-06 | 1.32E-06 | 1.19E-07 | 1.71E-06 | 1.07E-06 | 1.07E-06 | 5.27E-07 |
| 1919 | 257021.78 | 4083878.17 | 1.4241E-06 | 2.06E-06 | 1.52E-05 | 1.52E-06 | 8.46E-06 | 2.16E-07 | 3.14E-06 | 2.37E-06 | 2.37E-06 | 1.30E-06 | 1.17E-07 | 1.70E-06 | 1.05E-06 | 1.05E-06 | 5.22E-07 |
| 1920 | 257061.62 | 4083859.67 | 1.4098E-06 | 2.04E-05 | 1.50E-05 | 1.50E-05 | 8.38E-06 | 2.14E-07 | 3.11E-06 | 2.35E-06 | 2.35E-06 | 1.29E-06 | 1.16E-07 | 1.68E-06 | 1.04E-06 | 1.04E-06 | 5.17E-07 |
| 1921 | 257101.67 | 4083841.17 | 1.3975E-06 | 2.02E-05 | 1.49E-05 | 1.49E-05 | 8.31E-06 | 2.12E-07 | 3.08E-06 | 2.33E-06 | 2.33E-06 | 1.28E-06 | 1.15E-07 | 1.67E-06 | 1.03E-06 | 1.03E-06 | 5.12E-07 |
| 1922 | 257141.92 | 4083822.67 | 1.3852E-06 | 2.00E-05 | 1.48E-05 | 1.48E-05 | 6.23E-06 | 2.10E-07 | 3.05E-06 | 2.31E-06 | 2.31E-06 | 1.27E-06 | 2.14E-07 | 1.65E-06 | 1.03E-06 | 1.03E-06 | 5.08E-07 |
| 1923 | 257181.96 | 4083804.17 | 1.3729E-06 | 1.99E-05 | 1.46E-05 | 1.46E-05 | 6.16E-06 | 2.08E-07 | 3.03E-06 | 2.29E-06 | 2.29E-06 | 1.26E-06 | 2.12E-07 | 1.64E-06 | 1.02E-06 | 1.02E-06 | 5.03E-07 |
| 1924 | 257222.01 | 4083785.67 | 1.3606E-06 | 1.97E-06 | 1.45E-05 | 1.45E-06 | 8.09E-06 | 2.06E-07 | 3.00E-06 | 2.26E-06 | 2.26E-06 | 1.25E-06 | 1.12E-07 | 1.62E-06 | 1.01E-06 | 1.01E-06 | 4.99E-07 |
| 1925 | 257262.05 | 4083767.17 | 1.3504E-06 | 1.95E-06 | 1.44E-06 | 1.44E-06 | 8.03E-06 | 2.05E-07 | 2.98E-06 | 2.25E-06 | 2.25E-06 | 1.24E-06 | 1.11E-07 | 1.61E-06 | 1.00E-06 | 1.00E-06 | 4.95E-07 |
| 1926 | 257302.1 | 4083748.67 | 1.3401E-06 | 1.94E-05 | 1.43E-05 | 1.43E-05 | 7.96E-06 | 2.03E-07 | 2.95E-06 | 2.23E-06 | 2.23E-06 | 1.23E-06 | 1.10E-07 | 1.60E-06 | 9.92E-07 | 9.92E-07 | 4.91E-07 |
| 1927 | 257342.25 | 4083730.17 | 1.3299E-06 | 1.92E-05 | 1.42E-05 | 1.42E-05 | 7.90E-06 | 2.02E-07 | 2.93E-06 | 2.21E-06 | 2.21E-06 | 1.22E-06 | 1.10E-07 | 1.59E-06 | 9.85E-07 | 9.85E-07 | 4.87E-07 |
| 1928 | 257382.19 | 4083711.67 | 1.3217E-06 | 1.91E-05 | 1.41E-05 | 1.41E-05 | 7.85E-06 | 2.01E-07 | 2.91E-06 | 2.20E-06 | 2.20E-06 | 1.21E-06 | 1.09E-07 | 1.58E-06 | 9.79E-07 | 9.79E-07 | 4.84E-07 |
| 1929 | 257422.24 | 4083693.17 | 1.3255E-06 | 1.90E-05 | 1.40E-05 | 1.40E-05 | 7.82E-06 | 2.00E-07 | 2.90E-06 | 2.19E-06 | 2.19E-06 | 1.20E-06 | 1.08E-07 | 1.57E-06 | 9.74E-07 | 9.74E-07 | 4.62E-07 |
| 1930 | 257462.28 | 4083674.67 | 1.3114E-06 | 1.90E-05 | 1.40E-05 | 1.40E-05 | 7.79E-06 | 1.99E-07 | 2.89E-06 | 2.18E-06 | 2.18E-06 | 1.20E-06 | 1.08E-07 | 1.56E-06 | 9.71E-07 | 9.71E-07 | 4.81E-07 |
| 1931 | 256257.45 | 4085025.49 | 4.0408E-06 | 5.84E-05 | 4.31E-06 | 4.31E-05 | 2.40E-06 | 6.13E-07 | 8.90E-06 | 6.73E-06 | 8.73E-06 | 3.70E-06 | 3.33E-07 | 4.82E-06 | 2.99E-06 | 2.99E-06 | 1.48E-06 |
| 1932 | 256259.1 | 4085070.05 | 4.2355E-06 | 6.13E-05 | 4.52E-06 | 4.52E-05 | 2.52E-05 | 8.45E-07 | 9.33E-06 | 7.05E-06 | 7.06E-06 | 3.88E-05 | 3.49E-07 | 5.05E-06 | 3.14E-06 | 3.14E-06 | 1.55E-06 |
| 1933 | 256260.75 | 4085114.61 | 4.3543E-06 | 8.30E-05 | 4.64E-06 | 4.64E-05 | 2.59E-05 | 8.61E-07 | 9.59E-06 | 7.25E-06 | 7.25E-06 | 3.98E-06 | 3.59E-07 | 5.19E-06 | 3.22E-06 | 3.22E-06 | 1.60E-06 |
| 1934 | 256261.57 | 4085136.89 | 4.3933E-06 | 6.35E-05 | 4.68E-05 | 4.68E-05 | 2.61E-05 | 6.67E-07 | 9.68E-06 | 7.31E-06 | 7.31E-06 | 4.02E-06 | 3.62E-07 | 5.24E-06 | 3.25E-06 | 3.25E-06 | 1.61E-06 |
| 1935 | 256263.23 | 4085181.45 | 4.4506E-06 | 6.44E-05 | 4.74E-05 | 4.74E-05 | 2.65E-05 | 6.75E-07 | 9.81E-06 | 7.41E-06 | 7.41E-06 | 4.07E-06 | 3.67E-07 | 5.31E-06 | 3.30E-06 | 3.30E-06 | 1.63E-06 |
| 1936 | 256064.41 | 4084589.96 | 3.3259E-06 | 4.82E-05 | 3.56E-05 | 3.56E-05 | 1.98E-05 | 5.06E-07 | 7.35E-06 | 5.55E-06 | 5.55E-06 | 3.05E-06 | 2.75E-07 | 3.98E-06 | 2.47E-06 | 2.47E-06 | 1.22E-06 |
| 1937 | 256079.7 | 4084948.65 | 3.1556E-06 | 4.56E-05 | 3.36E-05 | 3.36E-05 | 1.88E-05 | 4.79E-07 | 6.95E-06 | 5.25E-06 | 5.25E-06 | 2.89E-06 | 2.60E-07 | 3.76E-06 | 2.34E-06 | 2.34E-06 | 1.16E-06 |
| 1938 | 256095 | 4084907.34 | 2.9589E-06 | 4.28E-05 | 3.15E-05 | 3.15E-05 | 1.76E-05 | 4.49E-07 | 6.52E-06 | 4.93E-06 | 4.93E-06 | 2.71E-06 | 2.44E-07 | 3.53E-06 | 2.19E-06 | 2.19E-06 | 1.08E-06 |
| 1939 | 256110.3 | 4084866.04 | 2.7704E-06 | 4.01E-05 | 2.95E-05 | 2.95E-06 | 1.65E-05 | 4.20E-07 | 6.10E-06 | 4.61E-06 | 4.61E-06 | 2.54E-06 | 2.26E-07 | 3.30E-06 | 2.05E-06 | 2.05E-06 | 1.02E-06 |
| 1940 | 256125.59 | 4084824.73 | 2.6024E-06 | 3.76E-05 | 2.72E-05 | 2.77E-05 | 1.55E-05 | 3.95E-07 | 5.73E-06 | 4.33E-06 | 4.33E-06 | 2.38E-06 | 2.15E-07 | 3.10E-06 | 1.93E-06 | 1.93E-06 | 9.54E-07 |
| 1941 | 256140.89 | 4084783.42 | 0.000002463 | 3.56E-05 | 2.63E-05 | 2.63E-05 | 1.46E-05 | 3.74E-07 | 5.43E-06 | 4.10E-06 | 4.10E-06 | 2.25E-06 | 2.03E-07 | 2.94E-06 | 1.82E-06 | 1.82E-06 | 9.03E-07 |
| 1942 | 256156.18 | 4084742.12 | 2.3524E-06 | 3.40E-05 | 2.51E-05 | 2.51E-05 | 1.40E-05 | 3.57E-07 | 5.18E-06 | 3.92E-06 | 3.92E-06 | 2.15E-06 | 1.94E-07 | 2.80E-06 | 1.74E-06 | 1.74E-06 | 8.62E-07 |
| 1943 | 256171.48 | 4084700.81 | 2.2643E-06 | 3.27E-05 | 2.41E-05 | 2.41E-05 | 1.35E-05 | 3.44E-07 | 4.99E-06 | 3.77E-06 | 3.77E-06 | 2.07E-06 | 1.87E-07 | 2.70E-06 | 1.68E-06 | 1.68E-06 | 8.30E-07 |
| 1944 | 256186.78 | 4084659.5 | 2.1905E-06 | 3.17E-05 | 2.34E-05 | 2.34E-05 | 1.30E-05 | 3.32E-07 | 4.83E-06 | 3.65E-06 | 3.65E-06 | 2.00E-06 | 1.81E-07 | 2.61E-06 | 1.62E-06 | 1.62E-05 | 8.03E-07 |
| 1945 | 256202.07 | 4084618.2 | 2.1229E-06 | 3.07E-06 | 2.26E-05 | 2.26E-05 | 1.26E-05 | 3.12E-07 | 4.68E-06 | 3.53E-06 | 3.53E-06 | 1.94E-06 | 1.75E-07 | 2.53E-06 | 1.57E-06 | 1.57E-06 | 7.78E-07 |
| 1946 | 256317.37 | 4084576.89 | 2.0511E-06 | 2.97E-05 | 2.19E-06 | 2.19E-05 | 1.22E-06 | 3.11E-07 | 4.52E-06 | 3.41E-06 | 3.41E-06 | 1.88E-06 | 1.69E-07 | 2.45E-06 | 1.52E-06 | 1.52E-06 | 7.52E-07 |
| 1947 | 256232.68 | 4084525.58 | 1.9692E-06 | 2.85E-05 | 2.10E-06 | 2.10E-05 | 1.17E-05 | 2.99E-07 | 4.34E-06 | 3.28E-06 | 3.28E-06 | 1.80E-06 | 1.62E-07 | 2.35E-06 | 1.46E-06 | 1.46E-06 | 7.22E-07 |
| 1948 | 256247.96 | 4084494.28 | 1.8688E-06 | 2.70E-05 | 1.99E-05 | 1.99E-05 | 1.11E-05 | 2.84E-07 | 4.12E-06 | 3.11E-06 | 3.11E-06 | 1.71E-06 | 1.54E-07 | 2.23E-06 | 1.38E-06 | 1.38E-06 | 6.85E-07 |
| 1949 | 256263.26 | 4084452.97 | 1.7499E-06 | 2.53E-05 | 1.87E-05 | 1.67E-05 | 1.04E-05 | 2.66E-07 | 3.86E-06 | 2.91E-06 | 2.91E-06 | 1.60E-06 | 1.44E-07 | 2.09E-06 | 1.30E-06 | 1.30E-06 | 6.41E-07 |
| 1950 | 256378.55 | 4084411.66 | 1.6311E-06 | 2.36E-05 | 1.74E-06 | 1.74E-06 | 9.69E-06 | 2.48E-07 | 3.59E-06 | 2.71E-06 | 2.71E-06 | 1.49E-06 | 1.34E-07 | 1.94E-06 | 1.21E-06 | 1.21E-06 | 5.98E-07 |
| 1951 | 256293.85 | 4084370.56 | 1.5122E-06 | 2.19E-05 | 1.61E-05 | 1.61E-05 | 6.99E-06 | 2.30E-07 | 3.33E-06 | 2.52E-06 | 2.52E-06 | 1.38E-06 | 1.25E-07 | 1.80E-06 | 1.12E-06 | 1.12E-06 | 5.34E-07 |
| 1952 | 256309.15 | 4084329.05 | 1.4098E-06 | 2.04E-05 | 1.50E-05 | 1.50E-05 | 8.38E-06 | 2.14E-07 | 3.11E-06 | 2.35E-06 | 2.35E-06 | 1.29E-06 | 1.16E-07 | 1.68E-06 | 1.04E-06 | 1.04E-06 | 5.17E-07 |
| 1953 | 256324.44 | 4084287.74 | 1.3299E-06 | 1.92E-05 | 1.42E-05 | 1.42E-05 | 7.90E-06 | 2.02E-07 | 2.93E-06 | 2.21E-06 | 2.21E-06 | 1.22E-06 | 1.10E-07 | 1.59E-06 | 9.86E-07 | 9.85E-07 | 4.87E-07 |
| 1954 | 256339.74 | 4084246.44 | 1.2745E-06 | 1.84E-05 | 1.36E-05 | 1.56E-05 | 7.58E-06 | 1.93E-07 | 2.61E-06 | 2.12E-06 | 2.12E-06 | 1.17E-06 | 1.05E-07 | 1.52E-06 | 9.44E-07 | 9.44E-07 | 4.67E-07 |
| 1955 | 256355.03 | 4084205.13 | 1.2418E-06 | 1.80E-05 | 1.32E-05 | 1.32E-05 | 7.38E-06 | 1.68E-07 | 2.74E-06 | 2.07E-06 | 2.07E-06 | 1.14E-06 | 1.02E-07 | 1.48E-06 | 9.20E-07 | 9.20E-07 | 4.55E-07 |
| 1956 | 256370.33 | 4084163.83 | 1.2295E-06 | 1.78E-05 | 1.31E-05 | 1.31E-05 | 7.31E-06 | 1.87E-07 | 2.71E-06 | 2.05E-06 | 2.05E-06 | 1.13E-06 | 1.01E-07 | 1.47E-06 | 9.10E-07 | 9.10E-07 | 4.51E-07 |
| 1957 | 256385.63 | 4084122.52 | 1.2295E-06 | 1.78E-05 | 1.31E-05 | 1.31E-05 | 7.31E-06 | 1.87E-07 | 2.71E-06 | 2.05E-06 | 2.05E-06 | 1.13E-06 | 1.01E-07 | 1.47E-06 | 9.10E-07 | 9.10E-07 | 4.51E-07 |
| 1956 | 256400.92 | 4084081.21 | 1.2356E-06 | 1.79E-05 | 1.32E-05 | 1.32E-05 | 7.34E-06 | 1.88E-07 | 2.72E-06 | 2.06E-06 | 2.06E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.15E-07 | 9.15E-07 | 4.53E-07 |
| 1959 | 256416.22 | 4084039.91 | 1.2397E-06 | 1.79E-05 | 1.32E-05 | 1.32E-05 | 7.37E-06 | 1.88E-07 | 2.73E-06 | 2.06E-06 | 2.06E-06 | 1.13E-06 | 1.02E-07 | 1.48E-06 | 9.18E-07 | 9.18E-07 | 4.54E-07 |
| 1960 | 256431.51 | 4083998.6 | 1.2418E-06 | 1.80E-05 | 1.32E-05 | 1.32E-06 | 7.38E-06 | 1.88E-07 | 2.74E-06 | 2.07E-06 | 2.07E-06 | 1.14E-06 | 1.02E-07 | 1.48E-06 | 9.20E-07 | 9.20E-07 | 4.55E-07 |
| 1961 | 256446.81 | 4083957.29 | 1.2536E-06 | 1.78E-05 | 1.32E-06 | 1.32E-05 | 7.33E-06 | 1.87E-07 | 2.72E-06 | 2.05E-06 | 2.05E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.14E-07 | 9.14E-07 | 4.52E-07 |
| 1962 | 256474.45 | 4083927.4 | 1.2315E-06 | 1.78E-05 | 1.31E-06 | 1.31E-05 | 7.32E-06 | 1.87E-07 | 2.71E-06 | 2.05E-06 | 2.05E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.12E-07 | 9.12E-07 | 4.51E-07 |
| 1963 | 256514.44 | 4083908.93 | 1.2356E-06 | 1.79E-05 | 1.32E-06 | 1.32E-05 | 7.34E-06 | 1.88E-07 | 2.72E-06 | 2.06E-06 | 2.06E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.15E-07 | 9.15E-07 | 4.53E-07 |
| 1964 | 256554.43 | 4083890.46 | 1.2356E-06 | 1.79E-05 | 1.32E-05 | 1.32E-05 | 7.34E-06 | 1.68E-07 | 2.72E-06 | 2.06E-06 | 2.06E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.15E-07 | 9.15E-07 | 4.53E-07 |
| 1965 | 256594.41 | 4083871.98 | 1.2315E-06 | 1.78E-05 | 1.31E-05 | 1.31E-05 | 7.32E-06 | 1.67E-07 | 2.71E-06 | 2.05E-06 | 2.05E-06 | 1.13E-06 | 1.02E-07 | 1.47E-06 | 9.12E-07 | 9.12E-07 | 4.51E-07 |
| 1966 | 256634.4 | 4083853.51 | 1.2274E-06 | 1.78E-05 | 1.31E-05 | 1.31E-05 | 7.30E-06 | 1.66E-07 | 2.70E-06 | 2.04E-06 | 2.04E-06 | 1.12E-06 | 1.01E-07 | 1.46E-06 | 9.09E-07 | 9.09E-07 | 4.50E-07 |
| 1967 | 256674.39 | 4083835.04 | 1.2254E-06 | 1.77E-05 | 1.31E-05 | 1.31E-05 | 7.28E-06 | 1.88E-07 | 2.70E-06 | 2.04E-06 | 2.04E-06 | 1.12E-06 | 1.01E-07 | 1.46E-06 | 9.07E-07 | 9.07E-07 | 4.49E-07 |
| 1968 | 256714.37 | 4083816.56 | 1.2233E-06 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.27E-06 | 1.86E-07 | 2.70E-06 | 2.04E-06 | 2.04E-06 | 1.12E-06 | 1.01E-07 | 1.45E-06 | 9.06E-07 | 9.06E-07 | 4.46E-07 |
| 1969 | 256754.36 | 4083798.09 | 1.2213E-06 | 1.77E-05 | 1.30E-05 | 1.30E-05 | 7.26E-06 | 1.85E-07 | 2.69E-06 | 2.03E-06 | 2.03E-06 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1752 | 257056.9 | 4084995.86 | 0.000010684 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 6.35E-05 | 1.62E-06 | 2.35E-05 | 1.78E-05 | 1.78E-05 | 9.78E-06 | 8.81E-07 | 1.27E-05 | 7.91E-06 | 7.91E-06 | 3.92E-06 |
| 1753 | 257057.72 | 4085018.15 | 0.000011418 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.79E-05 | 1.73E-06 | 2.52E-05 | 1.90E-05 | 1.90E-05 | 1.04E-05 | 9.41E-07 | 1.36E-05 | 8.46E-06 | 8.46E-06 | 4.19E-06 |
| 1754 | 257059.38 | 4085062.71 | 0.00001276 | 1.85E-04 | 1.36E-04 | 1.36E-04 | 7.58E-05 | 1.94E-06 | 2.81E-06 | 2.12E-05 | 2.12E-05 | 1.17E-05 | 1.05E-06 | 1.52E-05 | 9.45E-06 | 9.45E-06 | 4.68E-06 |
| 1755 | 257061.03 | 4085107.27 | 0.000013901 | 2.01E-04 | 1.48E-04 | 1.48E-04 | 8.26E-05 | 2.11E-06 | 3.06E-05 | 2.31E-06 | 2.31E-05 | 1.27E-05 | 1.25E-06 | 1.66E-06 | 1.03E-05 | 1.03E-05 | 5.10E-06 |
| 1756 | 257062.68 | 4085151.83 | 0.000014932 | 2.16E-04 | 1.59E-04 | 1.59E-04 | 8.87E-05 | 2.27E-06 | 3.29E-06 | 2.49E-05 | 2.49E-06 | 1.37E-05 | 1.23E-06 | 1.78E-06 | 1.11E-05 | 1.11E-06 | 5.47E-06 |
| 1757 | 256963.72 | 4084956.83 | 7.9054E-06 | 1.14E-04 | 6.43E-05 | 8.43E-06 | 4.70E-05 | 1.20E-06 | 1.74E-05 | 1.32E-05 | 1.32E-05 | 7.23E-06 | 6.52E-07 | 9.43E-06 | 5.85E-06 | 5.85E-06 | 2.90E-06 |
| 1758 | 256978.87 | 4084925.92 | 7.1186E-06 | 1.03E-04 | 7.59E-05 | 7.59E-05 | 4.23E-05 | 1.08E-06 | 1.57E-06 | 1.18E-06 | 1.18E-05 | 6.51E-06 | 5.87E-07 | 8.49E-06 | 5.27E-06 | 5.27E-06 | 2.61E-06 |
| 1759 | 256994.03 | 4084875 | 6.4219E-06 | 9.29E-06 | 6.85E-05 | 6.85E-05 | 3.82E-05 | 9.75E-07 | 1.42E-05 | 1.07E-06 | 1.07E-05 | 5.88E-06 | 5.29E-07 | 7.66E-06 | 4.76E-06 | 4.76E-06 | 2.35E-06 |
| 1760 | 257009.17 | 4084834.09 | 5.8501E-06 | 8.46E-06 | 6.24E-05 | 6.24E-05 | 3.48E-05 | 8.88E-07 | 1.29E-05 | 9.74E-06 | 9.74E-06 | 5.35E-06 | 4.82E-07 | 6.97E-06 | 4.33E-06 | 4.33E-06 | 2.14E-06 |
| 1761 | 257024.32 | 4084793.18 | 5.3645E-06 | 7.76E-05 | 5.72E-05 | 5.72E-05 | 3.19E-05 | 8.14E-07 | 1.18E-05 | 8.93E-06 | 8.93E-06 | 4.91E-06 | 4.42E-07 | 6.40E-06 | 3.97E-06 | 3.97E-06 | 1.97E-06 |
| 1762 | 257039.47 | 4084752.26 | 4.9383E-06 | 7.14E-05 | 5.26E-05 | 5.26E-05 | 2.94E-05 | 7.49E-07 | 1.09E-05 | 8.22E-06 | 8.22E-06 | 4.52E-06 | 4.07E-07 | 5.89E-06 | 3.66E-06 | 3.66E-06 | 1.81E-06 |
| 1763 | 257054.62 | 4084711.35 | 4.5736E-06 | 6.62E-05 | 4.88E-05 | 4.88E-05 | 2.72E-05 | 6.94E-07 | 1.01E-05 | 7.61E-06 | 7.61E-06 | 4.19E-06 | 3.77E-07 | 5.45E-06 | 3.39E-06 | 3.39E-06 | 1.68E-06 |
| 1764 | 257069.72 | 4084670.44 | 4.2621E-06 | 6.16E-05 | 4.54E-05 | 4.54E-05 | 2.53E-05 | 6.47E-07 | 9.39E-06 | 7.09E-06 | 7.09E-06 | 3.90E-06 | 3.51E-07 | 5.08E-06 | 3.16E-06 | 3.16E-06 | 1.56E-06 |
| 1765 | 257084.92 | 4084629.52 | 3.9875E-06 | 5.77E-06 | 4.25E-05 | 4.25E-05 | 2.37E-05 | 6.05E-07 | 8.79E-06 | 6.64E-06 | 6.64E-06 | 3.65E-06 | 3.29E-07 | 4.75E-06 | 2.95E-06 | 2.95E-06 | 1.46E-06 |
| 1766 | 257100.07 | 4084588.61 | 3.7294E-06 | 5.39E-05 | 3.98E-05 | 3.98E-05 | 2.22E-05 | 5.66E-07 | 8.22E-06 | 6.21E-06 | 6.21E-06 | 3.41E-06 | 3.07E-07 | 4.45E-06 | 2.76E-06 | 2.76E-06 | 1.37E-06 |
| 1767 | 257135.02 | 4084538.55 | 3.4999E-06 | 5.06E-05 | 3.73E-05 | 3.73E-05 | 2.08E-05 | 5.31E-07 | 7.71E-06 | 5.83E-06 | 5.83E-06 | 3.20E-06 | 2.88E-07 | 4.17E-06 | 2.59E-06 | 2.59E-06 | 1.28E-06 |
| 1768 | 257174.63 | 4084520.25 | 3.5347E-06 | 5.11E-06 | 3.77E-05 | 3.77E-05 | 2.10E-05 | 5.36E-07 | 7.79E-06 | 5.88E-06 | 5.88E-06 | 3.23E-06 | 2.91E-07 | 4.21E-06 | 2.62E-06 | 2.62E-06 | 1.30E-06 |
| 1769 | 257214.24 | 4084501.95 | 3.5859E-06 | 5.19E-05 | 3.82E-05 | 3.82E-06 | 2.13E-05 | 5.44E-07 | 7.90E-06 | 5.97E-06 | 5.97E-06 | 3.28E-06 | 2.96E-07 | 4.28E-06 | 2.66E-06 | 2.68E-06 | 1.31E-06 |
| 1770 | 257253.84 | 4084483.66 | 3.6453E-06 | 5.27E-06 | 3.89E-05 | 3.89E-05 | 2.17E-05 | 5.53E-07 | 8.03E-06 | 6.07E-06 | 6.07E-06 | 3.34E-06 | 3.00E-07 | 4.35E-06 | 2.70E-06 | 2.70E-06 | 1.34E-06 |
| 1771 | 257293.45 | 4084465.36 | 3.7007E-06 | 5.35E-06 | 3.95E-05 | 3.95E-05 | 2.20E-05 | 5.62E-07 | 8.15E-06 | 6.16E-06 | 6.16E-06 | 3.39E-06 | 3.05E-07 | 4.41E-06 | 2.74E-06 | 2.74E-06 | 1.36E-06 |
| 1772 | 257333.05 | 4084447.06 | 3.7416E-06 | 5.41E-05 | 3.99E-06 | 3.99E-05 | 2.22E-05 | 5.68E-07 | 6.24E-06 | 6.23E-06 | 6.23E-06 | 3.42E-06 | 3.08E-07 | 4.46E-06 | 2.77E-06 | 2.77E-06 | 1.37E-06 |
| 1773 | 257372.66 | 4084479.72 | 3.7642E-06 | 5.44E-05 | 4.01E-05 | 4.01E-05 | 2.24E-05 | 5.71E-07 | 8.29E-06 | 6.27E-06 | 6.27E-06 | 3.44E-06 | 3.10E-07 | 4.49E-06 | 2.79E-06 | 2.79E-06 | 1.38E-06 |
| 1774 | 257412.27 | 4084410.47 | 3.7744E-06 | 5.46E-05 | 4.02E-05 | 4.02E-05 | 2.24E-05 | 5.73E-07 | 8.32E-06 | 6.28E-06 | 6.28E-06 | 3.45E-06 | 3.11E-07 | 4.50E-06 | 2.80E-06 | 2.80E-06 | 1.38E-06 |
| 1775 | 257451.87 | 4084392.17 | 3.7847E-06 | 5.47E-05 | 4.03E-05 | 4.03E-06 | 2.25E-05 | 5.74E-07 | 8.34E-06 | 6.30E-06 | 6.30E-06 | 3.46E-06 | 3.12E-07 | 4.51E-06 | 2.80E-06 | 2.80E-06 | 1.39E-06 |
| 1776 | 257491.48 | 4084373.87 | 0.000003799 | 5.49E-06 | 4.05E-05 | 4.05E-05 | 2.26E-05 | 5.77E-07 | 8.37E-06 | 6.32E-06 | 6.32E-06 | 3.48E-06 | 3.13E-07 | 4.53E-06 | 2.81E-06 | 2.81E-06 | 1.39E-06 |
| 1777 | 256956.97 | 4084999.57 | 8.8459E-06 | 1.28E-04 | 9.43E-05 | 9.43E-05 | 5.26E-05 | 1.34E-06 | 1.95E-06 | 1.47E-05 | 1.47E-05 | 8.09E-06 | 7.79E-07 | 1.05E-05 | 6.55E-06 | 6.55E-06 | 3.24E-06 |
| 1778 | 256958.62 | 4085044.13 | 0.00000985 | 1.42E-04 | 1.05E-04 | 1.05E-04 | 5.85E-05 | 1.49E-06 | 2.17E-05 | 1.64E-05 | 1.64E-06 | 9.01E-06 | 8.12E-07 | 1.17E-05 | 7.29E-06 | 7.79E-06 | 3.61E-06 |
| 1779 | 256960.27 | 4085088.69 | 0.00001067 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.34E-05 | 1.62E-06 | 2.35E-05 | 1.78E-05 | 1.76E-05 | 9.76E-06 | 8.80E-07 | 1.27E-05 | 7.90E-06 | 7.90E-05 | 3.91E-06 |
| 1780 | 256961.92 | 4085133.25 | 0.000011313 | 1.64E-04 | 1.21E-04 | 1.21E-04 | 6.72E-06 | 1.72E-06 | 2.49E-06 | 1.88E-05 | 1.88E-05 | 1.04E-05 | 9.33E-07 | 1.35E-06 | 8.38E-06 | 8.38E-06 | 4.15E-06 |
| 1781 | 256963.57 | 4085177.82 | 0.000011911 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.08E-06 | 1.81E-06 | 2.62E-06 | 1.98E-06 | 1.98E-05 | 1.09E-06 | 9.82E-07 | 1.42E-06 | 6.82E-06 | 6.82E-06 | 4.37E-06 |
| 1782 | 256863.94 | 4084960.11 | 6.8112E-06 | 9.85E-06 | 7.26E-05 | 7.26E-05 | 4.05E-05 | 1.03E-06 | 1.50E-06 | 1.13E-05 | 1.13E-05 | 6.23E-06 | 5.61E-07 | 8.12E-06 | 5.04E-06 | 5.04E-06 | 2.50E-06 |
| 1783 | 256879.41 | 4084918.34 | 6.1657E-06 | 8.92E-05 | 6.57E-05 | 6.57E-05 | 3.66E-05 | 9.38E-07 | 1.36E-05 | 1.03E-05 | 1.03E-05 | 5.64E-06 | 5.08E-07 | 7.35E-06 | 4.57E-06 | 4.57E-06 | 2.26E-06 |
| 1784 | 256894.88 | 4084876.57 | 5.5961E-06 | 8.09E-05 | 5.97E-05 | 5.97E-05 | 3.33E-06 | 8.49E-07 | 1.23E-05 | 9.31E-06 | 9.31E-06 | 5.12E-06 | 4.61E-07 | 6.67E-06 | 4.14E-06 | 4.14E-06 | 2.05E-06 |
| 1785 | 256910.34 | 4084834.81 | 5.1289E-06 | 7.42E-06 | 5.47E-05 | 5.47E-05 | 3.05E-06 | 7.78E-07 | 1.13E-05 | 6.54E-06 | 8.54E-06 | 4.69E-06 | 4.23E-07 | 6.11E-06 | 3.80E-06 | 3.80E-06 | 1.68E-06 |
| 1786 | 256925.81 | 4084793.04 | 4.7155E-06 | 6.85E-05 | 5.05E-05 | 5.05E-05 | 2.81E-05 | 7.19E-07 | 1.04E-05 | 7.88E-06 | 7.88E-06 | 4.33E-06 | 3.90E-07 | 5.65E-06 | 3.51E-06 | 3.51E-06 | 1.74E-06 |
| 1787 | 256941.27 | 4084751.28 | 4.3769E-06 | 6.33E-06 | 4.67E-05 | 4.67E-05 | 2.60E-05 | 6.84E-07 | 9.64E-06 | 7.29E-06 | 7.29E-06 | 4.01E-06 | 3.61E-07 | 5.22E-06 | 3.24E-06 | 3.24E-06 | 1.60E-06 |
| 1788 | 256956.74 | 4084709.51 | 0.000004047 | 5.85E-05 | 4.31E-05 | 4.31E-05 | 2.41E-05 | 6.14E-07 | 8.92E-06 | 6.74E-06 | 6.74E-06 | 3.70E-06 | 3.34E-07 | 4.82E-06 | 3.00E-06 | 3.00E-06 | 1.48E-06 |
| 1789 | 256972.21 | 4084667.75 | 0.000003756 | 5.43E-06 | 4.00E-05 | 4.00E-05 | 2.23E-05 | 5.70E-07 | 8.28E-06 | 6.25E-06 | 6.25E-06 | 3.44E-06 | 3.10E-07 | 4.48E-06 | 2.78E-06 | 2.78E-06 | 1.38E-06 |
| 1790 | 256987.67 | 4084625.98 | 3.5142E-06 | 5.08E-06 | 3.75E-05 | 3.75E-05 | 2.09E-05 | 5.33E-07 | 7.74E-06 | 5.85E-06 | 5.85E-06 | 3.22E-06 | 2.90E-07 | 4.19E-06 | 2.60E-06 | 2.60E-06 | 1.29E-06 |
| 1791 | 257003.14 | 4084584.22 | 3.3072E-06 | 4.78E-06 | 3.53E-05 | 3.53E-05 | 1.97E-05 | 5.02E-07 | 7.29E-06 | 5.50E-06 | 5.50E-06 | 3.03E-06 | 2.73E-07 | 3.94E-06 | 2.45E-06 | 2.45E-06 | 1.21E-06 |
| 1792 | 257018.6 | 4084542.45 | 3.1187E-06 | 4.51E-06 | 3.32E-05 | 3.32E-05 | 1.85E-05 | 4.73E-07 | 6.87E-06 | 5.19E-06 | 5.19E-06 | 2.85E-06 | 2.57E-07 | 3.72E-06 | 2.31E-06 | 2.31E-06 | 1.14E-06 |
| 1793 | 257034.07 | 4084500.69 | 2.9425E-06 | 4.26E-06 | 3.14E-05 | 3.14E-05 | 1.75E-05 | 4.47E-07 | 6.48E-06 | 4.90E-06 | 4.90E-06 | 2.69E-06 | 2.43E-07 | 3.51E-06 | 2.18E-06 | 2.18E-06 | 1.08E-06 |
| 1794 | 257062.02 | 4084470.46 | 2.8687E-06 | 4.25E-05 | 3.06E-05 | 3.06E-05 | 1.71E-05 | 4.35E-07 | 6.32E-06 | 4.78E-06 | 4.78E-06 | 2.63E-06 | 2.36E-07 | 3.42E-06 | 2.12E-06 | 2.12E-06 | 1.05E-06 |
| 1795 | 257102.45 | 4084451.78 | 2.8995E-06 | 4.19E-05 | 3.09E-05 | 3.09E-05 | 1.72E-05 | 4.40E-07 | 6.39E-06 | 4.83E-06 | 4.83E-06 | 2.65E-06 | 2.39E-07 | 3.46E-06 | 2.15E-06 | 2.15E-06 | 1.06E-06 |
| 1796 | 257142.88 | 4084433.11 | 2.9466E-06 | 4.26E-05 | 3.14E-05 | 3.14E-05 | 1.75E-05 | 4.47E-07 | 6.49E-06 | 4.90E-06 | 4.90E-06 | 2.70E-06 | 2.43E-07 | 3.51E-06 | 2.18E-06 | 2.18E-06 | 1.08E-06 |
| 1797 | 257183.31 | 4084414.43 | 0.000003006 | 4.35E-06 | 3.20E-05 | 3.20E-05 | 1.79E-05 | 4.66E-07 | 6.62E-06 | 5.00E-06 | 5.00E-06 | 2.75E-06 | 2.48E-07 | 3.58E-06 | 2.23E-06 | 2.23E-06 | 1.10E-06 |
| 1798 | 257223.74 | 4084395.75 | 3.0572E-06 | 4.42E-05 | 3.26E-06 | 3.26E-06 | 1.82E-06 | 4.64E-07 | 6.74E-06 | 5.09E-06 | 5.09E-06 | 2.80E-06 | 2.52E-07 | 3.64E-06 | 2.26E-06 | 2.26E-06 | 1.12E-06 |
| 1799 | 257264.17 | 4084377.07 | 3.0921E-06 | 4.47E-05 | 3.10E-05 | 3.30E-05 | 1.84E-05 | 4.69E-07 | 6.81E-06 | 5.25E-06 | 5.25E-06 | 2.83E-06 | 2.55E-07 | 3.69E-06 | 2.29E-06 | 2.29E-06 | 1.13E-06 |
| 1800 | 257304.61 | 4084358.39 | 3.1044E-06 | 4.49E-05 | 3.31E-05 | 3.31E-05 | 1.85E-05 | 4.71E-07 | 6.84E-06 | 5.17E-06 | 5.17E-06 | 2.84E-06 | 2.56E-07 | 3.70E-06 | 2.30E-06 | 2.30E-06 | 1.14E-06 |
| 1801 | 257345.04 | 4084339.71 | 3.0941E-06 | 4.48E-05 | 3.30E-05 | 3.30E-06 | 1.84E-06 | 4.70E-07 | 6.82E-06 | 5.15E-06 | 5.15E-06 | 2.63E-06 | 2.55E-07 | 3.69E-06 | 2.29E-06 | 2.29E-05 | 1.13E-06 |
| 1802 | 257385.47 | 4084321.04 | 3.0716E-06 | 4.44E-05 | 3.27E-05 | 3.27E-05 | 1.83E-05 | 4.66E-07 | 6.77E-06 | 5.11E-06 | 5.11E-06 | 2.81E-06 | 2.53E-07 | 3.66E-06 | 2.27E-06 | 2.27E-06 | 1.13E-06 |
| 1803 | 257425.9 | 4084302.36 | 3.0491E-06 | 4.41E-05 | 3.25E-05 | 3.25E-05 | 1.81E-05 | 4.63E-07 | 6.72E-06 | 5.08E-06 | 5.08E-06 | 2.79E-06 | 2.51E-07 | 3.64E-06 | 2.26E-06 | 2.26E-06 | 1.12E-06 |
| 1804 | 257466.33 | 4084283.68 | 3.0479E-06 | 4.40E-06 | 3.24E-05 | 3.24E-05 | 1.81E-05 | 4.62E-07 | 6.70E-06 | 5.07E-06 | 5.07E-06 | 2.78E-06 | 2.51E-07 | 3.63E-06 | 2.25E-06 | 2.25E-06 | 1.12E-06 |
| 1805 | 256857.04 | 4085003.27 | 7.5468E-06 | 1.09E-04 | 8.05E-05 | 8.05E-05 | 4.49E-05 | 1.25E-06 | 1.66E-06 | 1.26E-05 | 1.26E-05 | 6.91E-06 | 6.22E-07 | 9.00E-06 | 5.59E-06 | 5.59E-06 | 2.72E-06 |
| 1806 | 256858.69 | 4085047.83 | 6.2855E-06 | 1.20E-04 | 8.83E-06 | 8.63E-05 | 4.93E-05 | 1.26E-06 | 1.83E-06 | 1.38E-06 | 1.38E-05 | 7.58E-06 | 6.83E-07 | 9.88E-06 | 6.14E-05 | 6.14E-06 | 3.04E-06 |
| 1807 | 256860.34 | 4085092.39 | 8.6503E-06 | 1.28E-04 | 9.45E-05 | 9.45E-05 | 5.27E-05 | 1.34E-06 | 1.95E-06 | 1.47E-05 | 1.47E-05 | 8.11E-06 | 7.30E-07 | 1.06E-05 | 6.56E-06 | 6.56E-06 | 3.25E-06 |
| 1808 | 256861.99 | 4085136.96 | 9.2824E-06 | 1.34E-04 | 9.90E-05 | 9.90E-05 | 5.52E-05 | 1.41E-06 | 2.05E-05 | 1.55E-05 | 1.55E-05 | 8.49E-06 | 7.65E-07 | 1.11E-05 | 6.87E-06 | 6.87E-06 | 3.40E-06 |
| 1809 | 256863.64 | 4085181.52 | 9.6533E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.74E-05 | 1.47E-06 | 2.13E-05 | 1.61E-05 | 1.61E-05 | 8.83E-06 | 7.96E-07 | 1.15E-05 | 7.15E-06 | 7.25E-06 | 3.54E-06 |
| 1810 | 256664.04 | 4084967.61 | 5.3727E-06 | 7.72E-06 | 5.73E-05 | 5.73E-05 | 3.19E-05 | 8.15E-07 | 1.18E-05 | 8.94E-06 | 8.94E-06 | 4.92E-06 | 4.43E-07 | 6.41E-06 | 3.98E-06 | 3.98E-06 | 1.97E-06 |
| 1811 | 256679.44 | 4084926.03 | 0.000004924 | 7.12E-05 | 5.25E-05 | 5.25E-05 | 2.93E-05 | 7.47E-07 | 1.08E-05 | 8.20E-06 | 8.20E-06 | 4.51E-06 | 4.06E-07 | 5.87E-06 | 3.65E-06 | 3.65E-06 | 1.80E-06 |
| 1812 | 256694.83 | 4084884.46 | 4.5101E-06 | 6.52E-05 | 4.81E-05 | 4.81E-05 | 2.68E-05 | 6.84E-07 | 9.94E-06 | 7.51E-06 | 7.51E-06 | 4.13E-06 | 3.72E-07 | 5.38E-06 | 3.34E-06 | 3.34E-06 | 1.65E-06 |
| 1813 | 256710.23 | 4084842.89 | 4.1679E-06 | 6.03E-05 | 4.44E-05 | 4.44E-05 | 2.48E-05 | 6.33E-07 | 9.18E-06 | 6.94E-06 | 6.94E-06 | 3.81E-06 | 3.44E-07 | 4.97E-06 | 3.09E-06 | 3.09E-06 | 1.53E-06 |
| 1814 | 256725.62 | 4084801.32 | 3.8933E-06 | 5.63E-06 | 4.15E-06 | 4.25E-05 | 2.31E-05 | 5.91E-07 | 8.56E-06 | 6.48E-06 | 6.48E-06 | 3.56E-06 | 3.21E-07 | 4.64E-06 | 2.88E-06 | 2.88E-06 | 1.43E-06 |
| 1815 | 256741.02 | 4084759.74 | 3.6617E-06 | 5.30E-06 | 3.90E-06 | 3.90E-05 | 2.18E-05 | 5.56E-07 | 8.07E-06 | 6.09E-06 | 6.09E-06 | 3.35E-06 | 3.02E-07 | 4.37E-06 | 2.71E-06 | 2.71E-06 | 1.34E-06 |
| 1816 | 256756.41 | 4084718.17 | 3.4404E-06 | 4.98E-06 | 3.67E-05 | 3.67E-05 | 2.04E-05 | 5.22E-07 | 7.58E-06 | 5.73E-06 | 5.73E-06 | 3.15E-06 | 2.84E-07 | 4.10E-06 | 2.55E-06 | 2.55E-06 | 1.26E-06 |
| 1817 | 256771.81 | 4084676.6 | 0.000003213 | 4.65E-06 | 3.43E-05 | 3.43E-05 | 1.91E-05 | 4.88E-07 | 7.08E-06 | 5.35E-06 | 5.35E-06 | 2.94E-06 | 2.65E-07 | 3.83E-06 | 2.38E-06 | 2.38E-06 | 1.18E-06 |
| 1818 | 256787.2 | 4084635.02 | 2.9855E-06 | 4.32E-05 | 3.18E-05 | 3.18E-05 | 1.77E-05 | 4.53E-07 | 6.58E-06 | 4.97E-06 | 4.97E-06 | 2.73E-06 | 2.46E-07 | 3.56E-06 | 2.21E-06 | 2.21E-06 | 1.09E-06 |
| 1819 | 256802.6 | 4084593.45 | 2.7745E-06 | 4.01E-06 | 2.96E-05 | 2.96E-05 | 1.65E-05 | 4.21E-07 | 6.11E-06 | 4.62E-06 | 4.62E-06 | 2.54E-06 | 2.29E-07 | 3.31E-06 | 2.05E-06 | 2.05E-06 | 1.02E-06 |
| 1820 | 256817.99 | 4084551.88 | 2.6003E-06 | 3.76E-06 | 2.77E-05 | 2.77E-05 | 1.55E-05 | 3.95E-07 | 5.73E-06 | 4.33E-06 | 4.33E-06 | 2.38E-06 | 2.14E-07 | 3.10E-06 | 1.93E-06 | 1.93E-06 | 9.53E-07 |
| 1821 | 256833.39 | 4084510.3 | 0.000002463 | 3.56E-05 | 2.63E-05 | 2.63E-05 | 1.46E-05 | 3.74E-07 | 5.43E-06 | 4.10E-06 | 4.10E-06 | 2.25E-06 | 2.03E-07 | 2.94E-06 | 1.82E-06 | 1.82E-06 | 9.03E-07 |
| 1822 | 256848.78 | 4084468.71 | 2.3544E-06 | 3.41E-05 | 2.51E-05 | 2.51E-05 | 1.40E-05 | 3.57E-07 | 5.19E-06 | 3.92E-06 | 3.92E-06 | 2.15E-06 | 1.94E-07 | 2.81E-06 | 1.74E-06 | 1.74E-06 | 8.63E-07 |
| 1823 | 256864.18 | 4084427.16 | 2.2602E-06 | 3.27E-06 | 2.41E-06 | 2.41E-05 | 1.34E-05 | 3.43E-07 | 4.98E-06 | 3.76E-06 | 3.76E-06 | 2.07E-06 | 1.86E-07 | 2.69E-06 | 1.67E-06 | 1.67E-06 | 8.28E-07 |
| 1824 | 256879.57 | 4084385.58 | 2.1741E-06 | 3.14E-05 | 2.32E-06 | 2.32E-05 | 1.29E-05 | 3.30E-07 | 4.79E-06 | 3.62E-06 | 3.62E-06 | 1.99E-06 | 1.79E-07 | 2.59E-06 | 1.61E-06 | 1.61E-06 | 7.97E-07 |
| 1825 | 256915.09 | 4084334.72 | 2.1065E-06 | 3.05E-06 | 2.25E-05 | 2.25E-05 | 1.25E-05 | 3.20E-07 | 4.64E-06 | 3.51E-06 | 3.51E-06 | 1.93E-06 | 1.74E-07 | 2.51E-06 | 1.58E-06 | 1.56E-06 | 7.72E-07 |
| 1826 | 256955.33 | 4084316.12 | 2.1331E-06 | 3.09E-06 | 2.27E-05 | 2.27E-05 | 1.27E-06 | 3.24E-07 | 4.70E-06 | 3.55E-06 | 3.55E-06 | 1.95E-06 | 1.76E-07 | 2.54E-06 | 1.58E-06 | 1.58E-06 | 7.82E-07 |
| 1827 | 256995.58 | 4084797.53 | 2.1679E-06 | 3.14E-06 | 2.31E-06 | 2.31E-06 | 1.79E-05 | 3.29E-07 | 4.78E-06 | 3.61E-06 | 3.61E-06 | 1.98E-06 | 1.79E-07 | 2.58E-06 | 1.61E-06 | 1.61E-06 | 7.95E-07 |
| 1828 | 257035.62 | 4084278.94 | 2.2089E-06 | 3.19E-06 | 2.35E-05 | 2.35E-05 | 1.31E-05 | 3.35E-07 | 4.87E-06 | 3.68E-06 | 3.68E-06 | 2.02E-06 | 1.62E-07 | 2.63E-06 | 1.64E-06 | 1.64E-06 | 8.10E-07 |
| 1829 | 257076.07 | 4084260.35 | 2.2499E-06 | 3.25E-06 | 2.40E-05 | 2.40E-05 | 1.34E-05 | 3.41E-07 | 4.96E-06 | 3.75E-06 | 3.75E-06 | 2.06E-06 | 1.85E-07 | 2.68E-06 | 1.67E-06 | 1.67E-06 | 8.25E-07 |
| 1830 | 257116.31 | 4084241.75 | 2.2765E-06 | 3.29E-05 | 2.43E-06 | 2.43E-05 | 1.35E-05 | 3.46E-07 | 5.02E-06 | 3.79E-06 | 3.79E-06 | 2.08E-06 | 1.68E-07 | 2.71E-06 | 1.69E-06 | 1.69E-06 | 8.35E-07 |
| 1831 | 257156.56 | 4084223.16 | 2.2847E-06 | 3.30E-06 | 2.44E-05 | 2.44E-06 | 1.36E-05 | 3.47E-07 | 5.03E-06 | 3.80E-06 | 3.80E-06 | 2.09E-06 | 1.88E-07 | 2.72E-06 | 1.69E-06 | 1.69E-06 | 8.38E-07 |
| 1832 | 257196.8 | 4084204.57 | 2.2745E-06 | 3.29E-05 | 2.42E-05 | 2.42E-05 | 1.35E-05 | 3.45E-07 | 5.01E-06 | 3.79E-06 | 3.79E-06 | 2.08E-06 | 1.87E-07 | 2.71E-06 | 1.68E-06 | 1.66E-06 | 8.34E-07 |
| 1833 | 257237.05 | 4084185.98 | 2.2458E-06 | 3.25E-06 | 2.39E-05 | 2.39E-05 | 1.33E-05 | 3.41E-07 | 4.95E-06 | 3.74E-06 | 3.74E-06 | 2.06E-06 | 1.85E-07 | 2.68E-06 | 1.66E-06 | 1.66E-06 | 8.23E-07 |
| 1834 | 257277.29 | 4084167.38 | 2.2089E-06 | 3.19E-06 | 2.35E-05 | 2.35E-05 | 1.31E-05 | 3.35E-07 | 4.87E-06 | 3.68E-06 | 3.68E-06 | 2.02E-06 | 1.82E-07 | 2.63E-06 | 1.64E-06 | 1.64E-06 | 8.10E-07 |
| 1835 | 257317.54 | 4084148.79 | 0.000002172 | 3.14E-05 | 2.31E-06 | 2.32E-05 | 1.29E-05 | 3.30E-07 | 4.79E-06 | 3.62E-06 | 3.62E-06 | 1.99E-06 | 1.79E-07 | 2.59E-06 | 1.61E-06 | 1.61E-06 | 7.96E-07 |
| 1836 | 257357.78 | 4084130.2 | 2.1454E-06 | 3.10E-06 | 2.29E-05 | 2.29E-06 | 1.28E-06 | 3.26E-07 | 4.73E-06 | 3.57E-06 | 3.57E-06 | 1.96E-06 | 1.77E-07 | 2.56E-06 | 1.59E-06 | 1.59E-06 | 7.86E-07 |
| 1837 | 257398.03 | 4084111.61 | 2.1352E-06 | 3.09E-06 | 2.28E-05 | 2.28E-05 | 1.27E-05 | 3.24E-07 | 4.70E-06 | 3.55E-06 | 3.55E-06 | 1.95E-06 | 1.76E-07 | 2.55E-06 | 1.58E-06 | 1.58E-06 | 7.83E-07 |
| 1838 | 257436.27 | 4084093.01 | 2.1413E-06 | 3.10E-06 | 2.28E-05 | 2.28E-05 | 1.27E-05 | 3.25E-07 | 4.72E-06 | 3.56E-06 | 3.56E-06 | 1.96E-06 | 1.77E-07 | 2.55E-06 | 1.59E-06 | 1.59E-06 | 7.85E-07 |
| 1639 | 257478.52 | 4084074.42 | 2.1638E-06 | 3.13E-06 | 2.31E-05 | 2.31E-05 | 1.79E-05 | 3.28E-07 | 4.72E-06 | 3.60E-06 | 3.60E-06 | 1.98E-06 | 1.78E-07 | 2.66E-06 | 1.60E-06 | 1.60E-06 | 7.93E-07 |
| 1840 | 256657.17 | 4085010.67 | 0.000005842 | 8.45E-06 | 6.23E-06 | 6.23E-06 | 3.47E-05 | 8.87E-07 | 1.29E-05 | 9.72E-06 | 9.71E-06 | 5.35E-06 | 4.82E-07 | 6.96E-06 | 4.33E-06 | 4.33E-06 | 2.14E-06 |
| 1841 | 256658.62 | 4085055.24 | 6.2825E-06 | 9.09E-06 | 6.70E-05 | 6.70E-05 | 3.73E-05 | 9.53E-07 | 1.38E-05 | 1.05E-05 | 1.05E-05 | 5.75E-06 | 5.18E-07 | 7.49E-06 | 4.65E-06 | 4.65E-06 | 2.30E-06 |
| 1842 | 256660.47 | 4085099.8 | 0.000006594 | 9.54E-06 | 7.03E-05 | 7.03E-05 | 3.92E-05 | 1.00E-06 | 1.45E-06 | 1.10E-05 | 1.10E-05 | 6.03E-06 | 5.44E-07 | 7.68E-06 | 4.88E-06 | 4.88E-06 | 2.42E-06 |
| 1843 | 256662.13 | 4085144.36 | 0.000006805 | 9.84E-06 | 7.25E-05 | 7.25E-06 | 4.04E-05 | 1.03E-06 | 1.50E-05 | 1.13E-06 | 1.13E-05 | 6.23E-06 | 5.61E-07 | 8.11E-06 | 5.04E-06 | 5.04E-06 | 2.49E-06 |
| 1844 | 256662.95 | 4085166.64 | 6.8932E-06 | 9.97E-06 | 7.35E-06 | 7.35E-06 | 4.10E-05 | 1.05E-06 | 1.52E-06 | 1.15E-05 | 1.15E-06 | 6.31E-06 | 5.68E-07 | 8.22E-06 | 5.10E-06 | 5.10E-06 | 2.53E-06 |
| 1845 | 256464.16 | 4084975.07 | 4.4547E-06 | 6.44E-06 | 4.75E-05 | 4.75E-05 | 2.65E-05 | 8.76E-07 | 9.82E-06 | 7.41E-06 | 7.41E-06 | 4.08E-06 | 3.67E-07 | 5.31E-06 | 3.30E-06 | 3.30E-06 | 1.63E-06 |
| 1846 | 256479.51 | 4084933.62 | 4.1269E-06 | 5.97E-05 | 4.40E-06 | 4.40E-05 | 2.45E-05 | 6.26E-07 | 9.09E-06 | 6.87E-06 | 6.87E-06 | 3.78E-06 | 3.40E-07 | 4.92E-06 | 3.06E-06 | 3.06E-06 | 1.51E-06 |
| 1847 | 256494.86 | 4084892.17 | 3.8113E-06 | 5.51E-05 | 4.06E-05 | 4.06E-06 | 2.27E-05 | 5.78E-07 | 8.40E-06 | 6.34E-06 | 6.34E-06 | 3.49E-06 | 3.14E-07 | 4.54E-06 | 2.82E-06 | 2.82E-06 | 1.40E-06 |
| 1848 | 256510.21 | 4084850.72 | 3.5326E-06 | 5.11E-05 | 3.77E-05 | 3.77E-05 | 2.10E-05 | 5.36E-07 | 7.78E-06 | 5.88E-06 | 5.88E-06 | 3.23E-06 | 2.91E-07 | 4.21E-06 | 2.62E-06 | 2.62E-06 | 1.29E-06 |
| 1849 | 256525.56 | 4084809.27 | 3.3093E-06 | 4.79E-05 | 3.53E-05 | 3.53E-05 | 1.97E-05 | 5.02E-07 | 7.29E-06 | 5.51E-06 | 5.51E-06 | 3.03E-06 | 2.73E-07 | 3.95E-06 | 2.45E-06 | 2.45E-06 | 1.21E-06 |
| 1850 | 256540.91 | 4084767.82 | 3.1331E-06 | 4.53E-06 | 3.34E-05 | 3.34E-05 | 1.86E-05 | 4.76E-07 | 6.90E-06 | 5.22E-06 | 5.22E-06 | 2.87E-06 | 2.58E-07 | 3.74E-06 | 2.32E-06 | 2.32E-06 | 1.15E-06 |
| 1851 | 256556.26 | 4084726.36 | 2.9855E-06 | 4.32E-05 | 3.18E-05 | 3.18E-05 | 1.77E-05 | 4.53E-07 | 6.58E-06 | 4.97E-06 | 4.97E-06 | 2.73E-06 | 2.48E-07 | 3.56E-06 | 2.21E-06 | 2.21E-05 | 1.09E-06 |
| 1852 | 256571.61 | 4084684.91 | 2.8462E-06 | 4.12E-06 | 3.03E-05 | 3.03E-05 | 1.69E-05 | 4.32E-07 | 6.27E-06 | 4.74E-06 | 4.74E-06 | 2.60E-06 | 2.35E-07 | 3.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1635 | 257615.77 | 4083451.33 | 1.1311E-06 | 1.64E-05 | 1.21E-05 | 1.21E-05 | 6.77E-06 | 1.72E-07 | 2.50E-06 | 1.89E-06 | 1.89E-06 | 1.04E-06 | 9.34E-08 | 1.35E-06 | 8.39E-07 | 6.39E-07 | 4.15E-07 |
| 1636 | 257591.44 | 4083452.33 | 1.1168E-06 | 1.62E-06 | 1.19E-05 | 1.19E-05 | 6.63E-06 | 1.70E-07 | 2.47E-06 | 1.86E-06 | 1.86E-06 | 1.02E-06 | 9.22E-08 | 1.33E-06 | 8.29E-07 | 6.29E-07 | 4.10E-07 |
| 1637 | 257567.11 | 4083453.34 | 1.1045E-06 | 1.60E-05 | 1.18E-06 | 1.18E-05 | 6.56E-06 | 1.68E-07 | 2.43E-06 | 1.84E-06 | 1.84E-06 | 1.01E-06 | 9.10E-08 | 1.32E-06 | 8.18E-07 | 8.18E-07 | 4.05E-07 |
| 1638 | 257542.78 | 4083454.34 | 1.0901E-06 | 1.58E-05 | 1.16E-06 | 1.16E-05 | 6.48E-06 | 1.63E-07 | 2.40E-06 | 1.81E-06 | 1.81E-06 | 9.98E-07 | 8.99E-08 | 1.30E-06 | 8.07E-07 | 6.07E-07 | 4.00E-07 |
| 1639 | 257518.45 | 4083455.34 | 1.0758E-06 | 1.56E-05 | 1.15E-05 | 1.15E-05 | 6.39E-06 | 1.63E-07 | 2.37E-06 | 1.79E-06 | 1.79E-06 | 9.84E-07 | 6.87E-08 | 1.28E-06 | 7.97E-07 | 7.97E-07 | 3.94E-07 |
| 1640 | 257494.25 | 4083456.34 | 1.0635E-06 | 1.54E-06 | 1.13E-05 | 1.13E-06 | 6.32E-06 | 1.61E-07 | 2.34E-06 | 1.77E-06 | 1.77E-06 | 9.73E-07 | 6.77E-08 | 1.27E-06 | 7.88E-07 | 7.88E-07 | 3.90E-07 |
| 1641 | 257530.75 | 4084956 | 0.000081318 | 1.18E-03 | 8.67E-04 | 6.67E-04 | 4.83E-04 | 1.23E-06 | 1.79E-04 | 1.35E-04 | 1.35E-04 | 7.44E-06 | 6.70E-06 | 9.69E-05 | 6.02E-05 | 6.02E-05 | 2.98E-05 |
| 1642 | 257532.4 | 4085000.56 | 0.000215 39 | 3.12E-03 | 2.30E-03 | 2.30E-03 | 1.28E-03 | 3.27E-05 | 4.75E-04 | 3.59E-04 | 3.59E-04 | 1.97E-04 | 1.78E-05 | 2.57E-04 | 1.60E-04 | 1.60E-04 | 7.90E-05 |
| 1643 | 257534.05 | 4085045.25 | 0.00034234 | 4.95E-03 | 3.65E-03 | 3.65E-03 | 2.03E-03 | 5.20E-05 | 7.54E-04 | 5.70E-04 | 5.70E-04 | 3.13E-04 | 2.82E-05 | 4.08E-04 | 2.54E-04 | 2.54E-04 | 1.26E-04 |
| 1644 | 257534.87 | 4085067.4 | 0.00038277 | 5.54E-03 | 4.08E-03 | 4.08E-03 | 2.27E-03 | 5.81E-06 | 8.43E-04 | 6.37E-04 | 6.37E-04 | 3.50E-04 | 3.15E-05 | 4.56E-04 | 2.83E-04 | 2.83E-04 | 1.40E-04 |
| 1645 | 257536.53 | 4085111.96 | 0.00043037 | 6.22E-03 | 4.59E-03 | 4.59E-03 | 2.56E-03 | 6.53E-06 | 9.48E-04 | 7.16E-04 | 7.16E-04 | 3.94E-04 | 3.55E-05 | 5.13E-04 | 3.19E-04 | 3.19E-04 | 1.58E-04 |
| 1646 | 257538.18 | 4085156.53 | 0.00041627 | 6.02E-03 | 4.44E-03 | 4.44E-03 | 2.47E-03 | 6.32E-05 | 9.17E-04 | 6.93E-04 | 6.93E-04 | 3.81E-04 | 3.43E-05 | 4.96E-04 | 3.08E-04 | 3.08E-04 | 1.53E-04 |
| 1647 | 257512.39 | 4084939.02 | 0.000050875 | 7.36E-04 | 5.42E-04 | 5.42E-04 | 3.02E-04 | 7.77E-06 | 1.25E-04 | 8.47E-06 | 8.47E-06 | 4.66E-05 | 4.19E-06 | 6.07E-05 | 3.77E-06 | 3.77E-06 | 1.86E-05 |
| 1648 | 257506.59 | 4084979.2 | 0.00008531 | 1.23E-03 | 9.09E-04 | 9.09E-04 | 5.07E-04 | 1.29E-05 | 1.88E-04 | 1.42E-04 | 1.42E-04 | 7.81E-06 | 7.03E-06 | 1.02E-04 | 6.32E-05 | 6.32E-05 | 3.13E-05 |
| 1649 | 257508.24 | 4085023.76 | 0.0001528 | 2.35E-03 | 1.74E-03 | 1.74E-03 | 9.68E-04 | 2.47E-05 | 3.59E-04 | 2.71E-04 | 2.71E-04 | 1.49E-04 | 1.34E-05 | 1.94E-04 | 1.21E-04 | 1.21E-04 | 5.97E-05 |
| 1650 | 257509.89 | 4085068.33 | 0.00023216 | 3.38E-03 | 2.47E-03 | 2.47E-03 | 1.38E-03 | 3.52E-05 | 5.12E-04 | 3.86E-04 | 3.86E-04 | 2.25E-04 | 1.91E-05 | 2.77E-04 | 1.73E-04 | 1.77E-04 | 8.51E-05 |
| 1651 | 257511.54 | 4085125.89 | 0.00027443 | 3.97E-03 | 2.93E-03 | 2.93E-03 | 1.63E-03 | 4.16E-05 | 6.05E-04 | 4.57E-04 | 4.57E-04 | 2.51E-04 | 2.26E-05 | 3.27E-04 | 2.03E-04 | 2.03E-04 | 1.01E-04 |
| 1652 | 257513.19 | 4085157.45 | 0.0002817 | 4.07E-03 | 3.00E-03 | 3.00E-03 | 1.67E-03 | 4.28E-06 | 6.21E-04 | 4.69E-04 | 4.69E-04 | 2.58E-04 | 2.32E-06 | 3.36E-04 | 2.09E-04 | 2.09E-04 | 1.02E-04 |
| 1653 | 257487.41 | 4084939.95 | 0.00041965 | 6.07E-04 | 4.47E-04 | 4.47E-04 | 2.49E-04 | 6.37E-06 | 9.25E-05 | 6.99E-05 | 6.99E-05 | 3.84E-06 | 3.46E-06 | 5.00E-06 | 3.11E-05 | 3.11E-06 | 1.54E-06 |
| 1654 | 257517.99 | 4084896.14 | 0.000033624 | 4.86E-04 | 3.58E-04 | 3.58E-04 | 2.00E-04 | 5.10E-06 | 7.41E-05 | 5.60E-05 | 5.60E-05 | 3.08E-06 | 2.77E-06 | 4.01E-05 | 2.49E-05 | 2.49E-05 | 1.13E-05 |
| 1655 | 257481.61 | 4084980.13 | 0.000062967 | 9.11E-04 | 6.71E-04 | 6.71E-04 | 3.74E-04 | 9.56E-06 | 1.39E-04 | 1.05E-04 | 1.05E-04 | 5.76E-06 | 5.19E-06 | 7.51E-05 | 4.56E-06 | 4.68E-05 | 2.31E-05 |
| 1656 | 257483.26 | 4085024.69 | 0.00010695 | 1.55E-03 | 1.14E-03 | 1.14E-03 | 6.36E-04 | 1.62E-05 | 2.36E-04 | 1.78E-04 | 1.78E-04 | 9.79E-05 | 8.82E-06 | 1.28E-04 | 7.92E-05 | 7.92E-05 | 3.92E-05 |
| 1657 | 257484.91 | 4085069.25 | 0.00015593 | 2.26E-03 | 1.66E-03 | 1.66E-03 | 9.27E-04 | 2.37E-05 | 3.44E-04 | 2.60E-04 | 2.60E-04 | 1.43E-04 | 1.29E-05 | 1.86E-04 | 1.15E-04 | 1.25E-04 | 5.72E-05 |
| 1658 | 257486.56 | 4085113.81 | 0.00019134 | 2.77E-03 | 2.04E-03 | 2.04E-03 | 1.14E-03 | 2.90E-06 | 4.22E-04 | 3.18E-04 | 3.18E-04 | 1.75E-04 | 1.58E-06 | 2.28E-04 | 1.42E-04 | 1.42E-04 | 7.01E-05 |
| 1659 | 157488.21 | 4085158.38 | 0.00020535 | 2.97E-03 | 2.19E-03 | 2.19E-03 | 1.22E-03 | 3.12E-05 | 4.52E-04 | 3.42E-04 | 3.42E-04 | 1.88E-04 | 1.69E-05 | 2.45E-04 | 1.52E-04 | 1.52E-04 | 7.53E-05 |
| 1660 | 257462.43 | 4084940.87 | 0.000035591 | 5.15E-04 | 3.79E-04 | 3.79E-04 | 2.12E-04 | 5.40E-06 | 7.84E-05 | 5.92E-05 | 5.92E-05 | 3.26E-05 | 2.93E-06 | 4.24E-05 | 2.64E-05 | 2.64E-05 | 1.30E-05 |
| 1661 | 257475.68 | 4084905.07 | 0.000028441 | 4.11E-04 | 3.03E-04 | 3.03E-04 | 1.69E-04 | 4.32E-06 | 6.27E-05 | 4.73E-06 | 4.77E-06 | 2.60E-05 | 2.34E-06 | 3.39E-05 | 2.11E-05 | 2.11E-05 | 1.04E-05 |
| 1662 | 257499.64 | 4084879.17 | 0.000026358 | 3.81E-04 | 2.81E-04 | 2.81E-04 | 1.57E-04 | 4.00E-06 | 5.81E-05 | 4.39E-05 | 4.39E-05 | 2.41E-05 | 2.17E-06 | 3.14E-05 | 1.95E-05 | 1.95E-05 | 9.66E-06 |
| 1663 | 257456.62 | 4084981.05 | 0.000049963 | 7.23E-04 | 5.33E-04 | 5.33E-04 | 2.97E-04 | 7.58E-06 | 1.10E-04 | 8.32E-05 | 8.32E-06 | 4.57E-05 | 4.12E-06 | 5.96E-05 | 3.70E-06 | 3.70E-05 | 1.83E-05 |
| 1684 | 257458.28 | 4085025.62 | 0.000077503 | 1.12E-03 | 8.26E-04 | 6.26E-04 | 4.61E-04 | 1.18E-05 | 1.71E-04 | 1.29E-04 | 1.29E-04 | 7.09E-05 | 6.39E-06 | 9.24E-05 | 5.74E-06 | 5.74E-05 | 2.84E-05 |
| 1665 | 257459.1 | 4085047.9 | 0.000094648 | 1.37E-03 | 1.01E-03 | 1.01E-03 | 5.63E-04 | 1.44E-05 | 2.09E-04 | 1.58E-04 | 1.58E-04 | 8.66E-05 | 7.80E-06 | 1.13E-04 | 7.01E-05 | 7.01E-05 | 3.47E-05 |
| 1666 | 257460.75 | 4085092.46 | 0.00012762 | 1.85E-03 | 1.36E-03 | 1.36E-03 | 7.58E-04 | 1.94E-05 | 2.81E-04 | 2.12E-04 | 2.12E-04 | 1.17E-04 | 1.05E-05 | 1.52E-04 | 9.45E-05 | 9.45E-05 | 4.68E-05 |
| 1667 | 257462.4 | 4085137.02 | 0.00015041 | 2.18E-03 | 1.60E-03 | 1.60E-03 | 8.94E-04 | 2.28E-05 | 3.31E-04 | 2.50E-04 | 2.50E-04 | 1.38E-04 | 1.24E-05 | 1.79E-04 | 1.11E-04 | 1.11E-04 | 5.51E-05 |
| 1668 | 257412.46 | 4084942.77 | 0.000027077 | 3.92E-04 | 2.89E-04 | 2.89E-04 | 1.61E-04 | 4.11E-06 | 5.97E-05 | 4.51E-05 | 4.51E-05 | 2.48E-05 | 2.23E-06 | 3.23E-05 | 2.01E-05 | 2.01E-05 | 9.93E-06 |
| 1669 | 257425.77 | 4084906.93 | 0.000022536 | 3.26E-04 | 2.40E-04 | 2.40E-04 | 1.34E-04 | 3.42E-06 | 4.97E-05 | 3.75E-06 | 3.75E-05 | 2.06E-05 | 1.86E-06 | 2.69E-05 | 1.67E-06 | 1.67E-05 | 8.26E-06 |
| 1670 | 257438.97 | 4084871.13 | 0.000019087 | 2.76E-04 | 2.03E-04 | 2.01E-04 | 1.13E-04 | 2.90E-06 | 4.21E-05 | 3.18E-05 | 3.18E-06 | 1.75E-05 | 1.57E-06 | 2.28E-05 | 1.41E-05 | 1.41E-05 | 7.00E-06 |
| 1871 | 257462.93 | 4084845.22 | 0.000017989 | 2.60E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.73E-06 | 3.96E-05 | 2.99E-05 | 2.99E-05 | 1.65E-05 | 1.48E-06 | 2.14E-05 | 1.33E-05 | 1.31E-05 | 6.59E-06 |
| 1673 | 257497.59 | 4084829.21 | 0.000018661 | 2.70E-04 | 1.99E-04 | 1.99E-04 | 1.11E-04 | 2.83E-06 | 4.11E-05 | 3.11E-05 | 3.11E-05 | 1.71E-05 | 1.54E-06 | 2.22E-06 | 1.38E-05 | 1.38E-05 | 6.84E-06 |
| 1673 | 257406.66 | 4084982.91 | 0.000035167 | 5.09E-04 | 3.75E-04 | 3.75E-04 | 2.09E-04 | 5.34E-06 | 7.75E-05 | 5.85E-05 | 5.85E-05 | 3.22E-05 | 2.90E-06 | 4.19E-06 | 2.60E-05 | 2.60E-05 | 1.29E-05 |
| 1674 | 257408.31 | 4085027.47 | 0.000048602 | 7.03E-04 | 5.18E-04 | 5.18E-04 | 2.89E-04 | 7.38E-06 | 1.07E-04 | 8.09E-05 | 8.09E-05 | 4.45E-05 | 4.01E-06 | 5.79E-05 | 3.60E-05 | 3.60E-05 | 1.78E-05 |
| 1675 | 257409.98 | 4085072.03 | 0.000066141 | 9.57E-04 | 7.05E-04 | 7.05E-04 | 3.93E-04 | 1.00E-06 | 1.46E-04 | 1.10E-04 | 1.10E-04 | 6.05E-06 | 5.45E-06 | 7.89E-06 | 4.90E-06 | 4.90E-06 | 2.42E-05 |
| 1676 | 257411.61 | 4085116.59 | 0.000084369 | 1.22E-03 | 8.99E-04 | 8.99E-04 | 5.01E-04 | 1.28E-06 | 1.86E-04 | 1.40E-04 | 1.40E-04 | 7.73E-05 | 6.95E-06 | 1.01E-04 | 6.25E-06 | 6.25E-05 | 3.09E-06 |
| 1677 | 257413.28 | 4085161.15 | 0.00009782 | 1.41E-03 | 1.04E-03 | 1.04E-03 | 5.81E-04 | 1.48E-05 | 2.16E-04 | 1.63E-04 | 1.63E-04 | 8.96E-05 | 6.06E-06 | 1.17E-04 | 7.24E-05 | 7.24E-05 | 3.59E-05 |
| 1678 | 257363.44 | 4084942.02 | 0.000021399 | 3.10E-04 | 2.28E-04 | 2.28E-04 | 1.27E-04 | 3.25E-06 | 4.77E-05 | 3.56E-06 | 3.56E-05 | 1.96E-05 | 1.76E-06 | 2.55E-06 | 1.58E-06 | 1.56E-05 | 7.84E-06 |
| 1679 | 257378.59 | 4084901.11 | 0.000017895 | 2.59E-04 | 1.91E-04 | 1.91E-04 | 1.06E-04 | 2.73E-06 | 3.94E-05 | 2.98E-05 | 2.98E-05 | 1.64E-05 | 1.48E-06 | 2.13E-06 | 1.33E-05 | 1.33E-05 | 6.56E-06 |
| 1680 | 257393.74 | 4084860.19 | 0.000015237 | 2.20E-04 | 1.62E-04 | 1.62E-04 | 9.06E-05 | 2.31E-06 | 3.36E-05 | 2.54E-05 | 2.54E-05 | 1.39E-05 | 1.26E-06 | 1.62E-05 | 1.13E-05 | 1.13E-05 | 5.59E-06 |
| 1681 | 257428.7 | 4084810.25 | 0.000013364 | 1.93E-04 | 1.42E-04 | 1.42E-04 | 7.94E-05 | 2.03E-06 | 2.94E-05 | 2.22E-06 | 2.22E-05 | 1.22E-05 | 1.10E-06 | 1.59E-06 | 9.90E-06 | 9.90E-06 | 4.90E-06 |
| 1682 | 257468.3 | 4084791.83 | 0.000013776 | 1.99E-04 | 1.47E-04 | 1.47E-04 | 8.19E-06 | 2.09E-06 | 3.04E-05 | 2.29E-05 | 2.29E-05 | 1.26E-05 | 1.14E-06 | 1.64E-05 | 1.02E-05 | 1.02E-05 | 5.05E-06 |
| 1683 | 257507.91 | 4084773.54 | 0.000014239 | 2.05E-04 | 1.51E-04 | 1.52E-04 | 8.46E-06 | 2.16E-06 | 3.14E-06 | 2.37E-05 | 2.37E-05 | 1.30E-05 | 1.17E-06 | 1.70E-05 | 1.05E-05 | 1.05E-05 | 5.22E-06 |
| 1684 | 257356.69 | 4084984.76 | 0.000026903 | 3.89E-04 | 2.87E-04 | 2.87E-04 | 1.60E-04 | 4.05E-06 | 5.93E-06 | 4.48E-05 | 4.48E-05 | 2.46E-05 | 2.22E-06 | 3.21E-06 | 1.99E-05 | 1.99E-06 | 9.86E-06 |
| 1685 | 257358.34 | 4085029.32 | 0.000034857 | 5.04E-04 | 3.77E-04 | 3.73E-04 | 2.07E-04 | 5.29E-06 | 7.68E-05 | 5.80E-05 | 5.80E-05 | 3.19E-05 | 2.87E-06 | 4.18E-05 | 2.58E-05 | 2.58E-05 | 1.28E-05 |
| 1686 | 257359.99 | 4085073.88 | 0.000044584 | 6.45E-04 | 4.75E-04 | 4.75E-04 | 2.65E-04 | 6.77E-06 | 9.82E-05 | 7.42E-05 | 7.42E-05 | 4.08E-05 | 3.68E-06 | 5.32E-05 | 3.30E-05 | 3.30E-05 | 1.63E-05 |
| 1687 | 257361.65 | 4085116.44 | 0.000055748 | 6.06E-04 | 5.94E-04 | 5.94E-04 | 3.31E-04 | 6.48E-06 | 1.23E-04 | 9.28E-06 | 9.28E-06 | 5.10E-06 | 4.60E-06 | 6.63E-06 | 4.13E-05 | 4.13E-06 | 2.04E-06 |
| 1688 | 257363.3 | 4085163.01 | 0.000065925 | 9.53E-04 | 7.03E-04 | 7.03E-04 | 3.92E-04 | 1.00E-06 | 1.45E-04 | 1.10E-04 | 1.10E-04 | 6.03E-06 | 5.43E-06 | 7.86E-05 | 4.88E-05 | 4.88E-05 | 2.42E-05 |
| 1689 | 257313.27 | 4084944.44 | 0.000017778 | 2.57E-04 | 1.90E-04 | 1.90E-04 | 1.06E-04 | 2.70E-06 | 3.91E-06 | 2.96E-06 | 2.96E-06 | 1.63E-05 | 1.47E-06 | 2.12E-06 | 1.32E-05 | 1.32E-05 | 6.52E-06 |
| 1690 | 257328 | 4084904.66 | 0.000015208 | 2.20E-04 | 1.62E-04 | 1.62E-04 | 9.04E-05 | 2.31E-06 | 3.36E-05 | 2.53E-06 | 2.53E-05 | 1.39E-05 | 1.13E-06 | 1.81E-06 | 1.13E-06 | 1.13E-05 | 5.56E-06 |
| 1691 | 257342.73 | 4084864.88 | 0.000013202 | 1.91E-04 | 1.41E-04 | 1.41E-04 | 7.85E-05 | 2.00E-06 | 2.91E-05 | 2.20E-05 | 2.20E-05 | 1.21E-05 | 1.09E-06 | 1.57E-05 | 9.76E-06 | 9.78E-06 | 4.84E-06 |
| 1892 | 257357.46 | 4084825.11 | 0.000011618 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.91E-06 | 1.76E-06 | 2.56E-06 | 1.93E-06 | 1.93E-06 | 1.06E-06 | 9.58E-07 | 1.39E-06 | 6.60E-06 | 8.60E-06 | 4.28E-06 |
| 1693 | 257391.44 | 4084776.44 | 0.000010418 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 6.19E-05 | 1.58E-06 | 2.30E-05 | 1.77E-05 | 1.77E-06 | 9.53E-06 | 6.59E-07 | 1.24E-05 | 7.73E-06 | 7.72E-06 | 3.82E-06 |
| 1694 | 257429.94 | 4084758.65 | 0.000010661 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.34E-06 | 1.62E-06 | 2.35E-05 | 1.77E-05 | 1.77E-05 | 9.76E-06 | 8.79E-07 | 1.27E-05 | 7.90E-06 | 7.90E-06 | 3.91E-06 |
| 1695 | 257468.45 | 4084740.86 | 0.000010395 | 1.58E-04 | 1.16E-04 | 1.16E-04 | 6.48E-06 | 1.63E-06 | 2.40E-06 | 1.81E-06 | 1.81E-06 | 9.97E-06 | 6.98E-07 | 1.30E-05 | 6.07E-06 | 6.07E-06 | 3.99E-06 |
| 1696 | 257506.96 | 4084723.07 | 0.000011184 | 1.62E-04 | 1.19E-04 | 1.19E-04 | 6.63E-06 | 1.70E-06 | 2.46E-05 | 1.86E-06 | 1.86E-05 | 1.02E-05 | 9.21E-07 | 1.33E-06 | 6.28E-06 | 8.28E-06 | 4.10E-06 |
| 1697 | 257306.73 | 4084986.61 | 0.000021639 | 3.13E-04 | 2.31E-04 | 2.31E-04 | 1.29E-04 | 3.29E-06 | 4.77E-05 | 3.61E-06 | 3.61E-05 | 1.98E-06 | 1.79E-06 | 2.58E-05 | 1.60E-05 | 1.60E-05 | 7.94E-06 |
| 1698 | 257307.55 | 4085008.89 | 0.000024233 | 3.50E-04 | 2.58E-04 | 2.58E-04 | 1.44E-04 | 3.68E-06 | 5.34E-06 | 4.03E-05 | 4.03E-06 | 2.22E-06 | 2.00E-06 | 2.89E-06 | 1.79E-06 | 1.79E-05 | 8.88E-06 |
| 1699 | 257309.2 | 4085053.45 | 0.000029792 | 4.31E-04 | 3.18E-04 | 3.18E-04 | 1.77E-04 | 4.52E-06 | 6.56E-06 | 4.96E-05 | 4.96E-06 | 2.73E-06 | 2.46E-06 | 3.55E-05 | 2.21E-06 | 2.21E-06 | 1.09E-06 |
| 1700 | 257310.85 | 4085098.01 | 0.000036203 | 5.24E-04 | 3.86E-04 | 3.86E-04 | 2.25E-04 | 5.49E-06 | 7.98E-06 | 6.03E-06 | 6.03E-06 | 3.31E-05 | 2.98E-06 | 4.32E-06 | 2.68E-05 | 2.68E-06 | 1.33E-05 |
| 1701 | 257312.51 | 4085142.58 | 0.000043328 | 6.27E-04 | 4.62E-04 | 4.62E-04 | 2.58E-04 | 6.58E-06 | 9.55E-06 | 7.21E-06 | 7.21E-06 | 3.96E-06 | 3.57E-06 | 5.17E-06 | 3.21E-06 | 3.21E-06 | 1.59E-06 |
| 1702 | 257763.17 | 4084946.65 | 0.000025161 | 2.19E-04 | 1.62E-04 | 1.62E-04 | 9.01E-05 | 2.30E-06 | 3.34E-06 | 2.52E-05 | 2.52E-06 | 1.39E-05 | 1.25E-06 | 1.81E-05 | 1.12E-05 | 1.12E-05 | 5.56E-06 |
| 1703 | 257777.63 | 4084907.6 | 0.0000 25155 | 1.90E-04 | 1.40E-04 | 1.40E-04 | 7.82E-06 | 2.00E-06 | 2.90E-05 | 2.19E-05 | 2.19E-06 | 1.20E-05 | 1.08E-06 | 1.57E-05 | 9.74E-06 | 9.74E-06 | 4.82E-06 |
| 1704 | 257292.09 | 4084868.54 | 0.000011563 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.87E-05 | 1.75E-06 | 2.55E-05 | 1.92E-05 | 1.92E-06 | 1.06E-05 | 9.53E-07 | 1.38E-05 | 6.56E-06 | 8.56E-06 | 4.24E-06 |
| 1705 | 257306.55 | 4084829.49 | 0.000010299 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.12E-05 | 1.56E-06 | 2.27E-06 | 1.71E-06 | 1.71E-05 | 9.42E-06 | 6.49E-07 | 1.23E-05 | 7.63E-06 | 7.65E-06 | 3.78E-06 |
| 1706 | 257321.01 | 4084790.44 | 9.2537E-06 | 1.34E-04 | 9.86E-05 | 9.86E-06 | 5.50E-05 | 1.40E-06 | 2.04E-05 | 1.54E-06 | 1.54E-06 | 8.47E-06 | 7.63E-07 | 1.10E-05 | 6.85E-06 | 6.65E-06 | 3.39E-06 |
| 1707 | 257354.38 | 4084742.65 | 6.4197E-06 | 1.22E-04 | 6.98E-06 | 6.98E-05 | 5.00E-05 | 1.28E-06 | 1.86E-05 | 1.40E-06 | 1.40E-06 | 7.70E-06 | 6.94E-07 | 1.00E-06 | 6.24E-06 | 6.24E-06 | 3.09E-06 |
| 1708 | 257392.18 | 4084725.19 | 8.5734E-06 | 1.24E-04 | 9.14E-05 | 9.14E-05 | 5.10E-06 | 1.30E-06 | 1.89E-05 | 1.43E-05 | 1.43E-05 | 7.85E-06 | 7.07E-07 | 1.02E-05 | 6.35E-06 | 6.35E-06 | 3.14E-06 |
| 1709 | 257429.99 | 4084707.77 | 6.7748E-06 | 1.26E-04 | 9.29E-06 | 9.29E-06 | 5.18E-06 | 1.32E-06 | 1.92E-05 | 1.45E-05 | 1.45E-06 | 7.97E-06 | 7.18E-07 | 1.04E-05 | 6.45E-06 | 6.45E-06 | 3.19E-06 |
| 1710 | 257467.8 | 4084690.25 | 8.8644E-06 | 1.28E-04 | 9.45E-05 | 9.45E-05 | 5.27E-05 | 1.35E-06 | 1.95E-05 | 1.48E-05 | 1.48E-05 | 8.11E-06 | 7.31E-07 | 1.06E-05 | 6.56E-06 | 6.56E-06 | 3.13E-06 |
| 1711 | 257505.6 | 4084672.79 | 9.0672E-06 | 1.31E-04 | 9.67E-05 | 9.67E-06 | 5.39E-05 | 1.38E-06 | 2.00E-05 | 1.51E-05 | 1.51E-05 | 8.30E-06 | 7.47E-07 | 1.08E-05 | 6.71E-06 | 6.71E-06 | 3.32E-06 |
| 1712 | 257256.76 | 4084988.46 | 0.000018061 | 2.61E-04 | 1.93E-04 | 1.93E-04 | 1.07E-04 | 2.74E-06 | 3.98E-05 | 3.01E-05 | 3.01E-05 | 1.65E-05 | 1.49E-06 | 2.25E-06 | 1.34E-06 | 1.34E-06 | 6.62E-06 |
| 1725 | 257258.41 | 4085033.02 | 0.000021811 | 3.15E-04 | 2.33E-04 | 2.33E-04 | 1.30E-04 | 3.31E-06 | 4.81E-05 | 3.63E-06 | 3.63E-06 | 2.00E-06 | 1.80E-06 | 2.60E-05 | 1.62E-05 | 1.62E-06 | 8.00E-06 |
| 1714 | 257260.06 | 4085077.58 | 0.000025751 | 3.72E-04 | 2.75E-04 | 2.75E-04 | 1.52E-04 | 3.91E-06 | 5.67E-06 | 4.29E-05 | 4.29E-05 | 2.36E-06 | 2.12E-06 | 3.07E-05 | 1.91E-05 | 1.91E-06 | 9.44E-06 |
| 1725 | 257261.71 | 4085122.25 | 0.000030091 | 4.15E-04 | 3.21E-04 | 3.21E-04 | 1.79E-04 | 4.57E-06 | 8.63E-06 | 5.01E-06 | 5.01E-06 | 2.75E-06 | 2.48E-06 | 3.59E-05 | 2.23E-06 | 2.23E-05 | 1.10E-06 |
| 1716 | 257363.37 | 4085166.71 | 0.000034947 | 5.05E-04 | 3.77E-04 | 3.73E-04 | 2.08E-04 | 5.30E-06 | 7.70E-06 | 5.82E-05 | 5.82E-05 | 3.20E-05 | 2.88E-06 | 4.17E-05 | 2.59E-05 | 2.59E-06 | 1.28E-05 |
| 1717 | 257163.58 | 4084949.42 | 0.000011618 | 1.68E-04 | 1.24E-04 | 1.24E-04 | 6.90E-05 | 1.76E-05 | 2.56E-06 | 1.93E-06 | 1.93E-06 | 1.06E-06 | 9.57E-07 | 1.38E-05 | 6.60E-06 | 8.60E-06 | 4.26E-06 |
| 1718 | 257178.73 | 4084908.51 | 0.000010198 | 1.48E-04 | 1.09E-04 | 1.09E-04 | 6.05E-05 | 1.55E-06 | 2.25E-06 | 1.70E-06 | 1.70E-05 | 9.33E-06 | 8.41E-07 | 1.22E-06 | 7.55E-06 | 7.55E-06 | 3.74E-06 |
| 1719 | 257193.86 | 4084867.6 | 9.0283E-06 | 1.31E-04 | 9.62E-05 | 9.62E-05 | 5.37E-05 | 1.37E-06 | 1.99E-05 | 1.50E-05 | 1.50E-06 | 8.26E-06 | 7.44E-07 | 1.08E-06 | 6.69E-06 | 6.89E-06 | 3.31E-06 |
| 1720 | 257209.03 | 4084826.68 | 8.1103E-06 | 1.17E-04 | 8.65E-06 | 6.65E-05 | 4.82E-05 | 1.23E-06 | 1.79E-06 | 1.35E-05 | 1.35E-05 | 7.42E-06 | 6.89E-07 | 9.67E-06 | 6.01E-06 | 6.01E-05 | 2.97E-06 |
| 1721 | 257224.18 | 4084785.77 | 7.3603E-06 | 1.06E-04 | 7.85E-06 | 7.85E-05 | 4.37E-05 | 1.12E-06 | 1.62E-06 | 1.23E-06 | 1.23E-06 | 6.74E-06 | 6.07E-07 | 8.78E-06 | 5.45E-06 | 5.45E-06 | 2.70E-06 |
| 1722 | 257239.33 | 4084744.86 | 6.7751E-06 | 9.77E-05 | 7.17E-06 | 7.17E-05 | 4.00E-05 | 1.02E-06 | 1.48E-05 | 1.12E-05 | 1.12E-05 | 6.15E-06 | 5.54E-07 | 8.02E-06 | 4.98E-06 | 4.98E-06 | 2.47E-06 |
| 1723 | 257254.48 | 4084703.95 | 6.1473E-06 | 8.89E-05 | 6.55E-05 | 6.55E-05 | 3.65E-05 | 9.33E-07 | 1.35E-05 | 1.02E-05 | 1.02E-05 | 5.63E-06 | 5.07E-07 | 7.33E-06 | 4.55E-06 | 4.55E-06 | 2.25E-06 |
| 1734 | 257781.86 | 4084874.34 | 5.9116E-06 | 8.55E-05 | 6.30E-05 | 6.30E-06 | 3.51E-05 | 8.97E-07 | 1.30E-05 | 9.84E-06 | 9.84E-06 | 5.41E-06 | 4.87E-07 | 7.05E-06 | 4.38E-06 | 4.38E-06 | 2.17E-06 |
| 1725 | 257321.47 | 4084658.04 | 5.9916E-06 | 8.67E-05 | 6.39E-05 | 6.39E-05 | 3.56E-05 | 9.09E-07 | 1.32E-05 | 9.97E-06 | 9.97E-06 | 5.48E-06 | 4.94E-07 | 7.14E-06 | 4.44E-06 | 4.44E-06 | 2.20E-06 |
| 1776 | 257361.07 | 4084637.75 | 6.0715E-06 | 8.78E-06 | 6.47E-05 | 6.47E-06 | 3.61E-05 | 9.21E-07 | 1.34E-05 | 1.01E-05 | 1.01E-05 | 5.56E-06 | 5.00E-07 | 7.24E-06 | 4.50E-06 | 4.50E-06 | 2.23E-06 |
| 1727 | 257400.68 | 4084619.45 | 6.1473E-06 | 6.89E-06 | 6.55E-06 | 6.55E-06 | 3.65E-06 | 9.33E-07 | 1.35E-06 | 1.02E-06 | 1.02E-06 | 5.63E-06 | 5.07E-07 | 7.31E-06 | 4.55E-06 | 4.55E-06 | 2.25E-06 |
| 1728 | 257440.28 | 4084601.25 | 6.2292E-06 | 9.01E-05 | 6.64E-05 | 6.64E-06 | 3.70E-05 | 9.45E-07 | 1.37E-05 | 1.04E-05 | 1.04E-06 | 5.70E-06 | 5.13E-07 | 7.43E-06 | 4.61E-06 | 4.61E-06 | 2.28E-06 |
| 1729 | 257479.89 | 4084582.85 | 0.000006344 | 9.18E-05 | 6.76E-05 | 6.76E-05 | 3.77E-05 | 9.63E-07 | 1.40E-05 | 1.06E-05 | 1.06E-06 | 5.81E-06 | 5.23E-07 | 7.56E-06 | 4.70E-06 | 4.70E-06 | 2.33E-06 |
| 1730 | 257156.63 | 4084992.16 | 0.000013463 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.00E-05 | 2.04E-06 | 2.97E-05 | 2.24E-05 | 2.24E-06 | 1.23E-05 | 1.11E-06 | 1.60E-06 | 9.97E-06 | 9.97E-06 | 4.94E-06 |
| 1731 | 257158.48 | 4085036.72 | 0.000015645 | 2.26E-04 | 1.67E-04 | 1.67E-04 | 9.30E-05 | 2.37E-06 | 3.45E-05 | 2.60E-06 | 2.60E-05 | 1.43E-05 | 1.29E-06 | 1.87E-05 | 1.16E-05 | 1.16E-05 | 5.73E-06 |
| 1732 | 257160.25 | 4085081.29 | 0.0000177 | 2.56E-04 | 1.89E-04 | 1.89E-04 | 1.05E-04 | 2.69E-06 | 3.90E-06 | 2.95E-06 | 2.95E-06 | 1.62E-06 | 1.46E-06 | 2.11E-06 | 1.31E-05 | 1.31E-06 | 6.49E-06 |
| 1733 | 257161.78 | 4085125.85 | 0.000019677 | 2.63E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 2.99E-06 | 4.33E-05 | 3.27E-05 | 3.27E-05 | 1.80E-06 | 1.62E-06 | 2.35E-06 | 1.46E-06 | 1.46E-05 | 7.21E-06 |
| 1734 | 257162.61 | 4085148.25 | 0.00002072 | 3.00E-04 | 2.21E-04 | 2.21E-04 | 1.23E-04 | 3.14E-06 | 4.57E-05 | 3.45E-05 | 3.45E-05 | 1.90E-05 | 1.71E-06 | 2.47E-05 | 1.53E-05 | 1.53E-06 | 7.60E-06 |
| 1775 | 257063.44 | 4084953.69 | 9.4258E-06 | 1.36E-04 | 1.00E-04 | 1.00E-04 | 5.60E-06 | 1.43E-06 | 2.08E-06 | 1.57E-05 | 1.57E-06 | 8.63E-06 | 7.77E-07 | 1.12E-05 | 6.98E-06 | 6.98E-06 | 3.46E-06 |
| 1736 | 257078.17 | 4084925.92 | 8.4259E-06 | 1.22E-04 | 8.98E-05 | 8.98E-06 | 5.01E-05 | 1.28E-06 | 1.86E-05 

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1518 | 258422.61 | 4083473.51 | 2.2847E-06 | 3.30E-05 | 2.44E-05 | 2.44E-05 | 1.36E-05 | 3.47E-07 | 5.03E-06 | 3.80E-06 | 3.80E-06 | 2.09E-06 | 1.88E-07 | 2.72E-06 | 1.69E-06 | 1.69E-06 | 8.38E-07 |
| 1519 | 258455.2 | 4083481.87 | 2.3667E-06 | 3.42E-05 | 2.52E-05 | 2.52E-05 | 1.41E-05 | 3.59E-07 | 5.21E-06 | 2.94E-06 | 2.94E-06 | 2.17E-06 | 1.95E-07 | 2.82E-06 | 1.75E-06 | 1.75E-06 | 8.68E-07 |
| 1520 | 258477.29 | 4083490.24 | 2.4548E-06 | 3.55E-05 | 2.62E-05 | 2.62E-05 | 1.46E-05 | 3.72E-07 | 5.41E-06 | 4.09E-06 | 4.09E-06 | 2.25E-06 | 2.02E-07 | 2.93E-06 | 1.82E-06 | 1.82E-06 | 9.00E-07 |
| 1521 | 258500.38 | 4083498.6 | 0.000002547 | 3.68E-05 | 2.72E-05 | 2.72E-05 | 1.51E-05 | 3.87E-07 | 5.61E-06 | 4.24E-06 | 4.24E-06 | 2.33E-06 | 2.10E-07 | 2.04E-06 | 1.89E-06 | 1.89E-06 | 9.34E-07 |
| 1522 | 258522.97 | 4083506.97 | 2.6474E-06 | 3.83E-05 | 2.82E-05 | 2.82E-05 | 1.57E-05 | 4.02E-07 | 5.83E-06 | 4.41E-06 | 4.41E-06 | 2.42E-06 | 2.18E-07 | 3.15E-06 | 1.96E-06 | 1.96E-06 | 9.70E-07 |
| 1523 | 258545.57 | 4083515.33 | 0.000002754 | 3.98E-05 | 2.94E-05 | 2.94E-05 | 1.64E-05 | 4.18E-07 | 6.07E-06 | 4.56E-06 | 4.58E-06 | 2.52E-06 | 2.27E-07 | 3.28E-06 | 2.04E-06 | 2.04E-06 | 1.01E-06 |
| 1524 | 258568.16 | 4083523.69 | 2.8667E-06 | 4.15E-05 | 3.06E-05 | 3.06E-05 | 1.70E-05 | 4.35E-07 | 6.32E-06 | 4.77E-06 | 4.77E-06 | 2.62E-06 | 2.36E-07 | 3.42E-06 | 2.12E-06 | 2.12E-06 | 1.05E-06 |
| 1525 | 258590.75 | 4083532.06 | 2.9876E-06 | 4.32E-05 | 3.18E-05 | 3.18E-05 | 1.78E-05 | 4.53E-07 | 6.58E-06 | 4.97E-06 | 4.97E-06 | 2.73E-06 | 2.46E-07 | 3.56E-06 | 2.21E-06 | 2.21E-06 | 1.10E-06 |
| 1526 | 258613.34 | 4083540.42 | 3.1167E-06 | 4.51E-05 | 3.32E-05 | 3.32E-05 | 1.85E-05 | 4.73E-07 | 6.87E-06 | 5.19E-06 | 5.19E-06 | 2.85E-06 | 2.57E-07 | 3.72E-06 | 2.31E-06 | 2.31E-06 | 1.14E-06 |
| 1527 | 258635.93 | 4083548.29 | 0.000003254 | 4.71E-05 | 3.47E-05 | 3.47E-05 | 1.93E-05 | 4.94E-07 | 7.17E-06 | 5.42E-06 | 5.42E-06 | 2.98E-06 | 2.88E-07 | 3.68E-06 | 2.41E-06 | 2.41E-06 | 1.19E-06 |
| 1528 | 258658.52 | 4083557.25 | 3.4015E-06 | 4.92E-05 | 3.63E-05 | 3.63E-05 | 2.02E-05 | 5.16E-07 | 7.49E-06 | 5.66E-06 | 5.66E-06 | 3.11E-06 | 2.80E-07 | 4.06E-06 | 2.52E-06 | 2.52E-06 | 1.25E-06 |
| 1529 | 258681.11 | 4083565.51 | 3.5572E-06 | 5.15E-05 | 3.79E-05 | 3.79E-05 | 2.11E-05 | 5.40E-07 | 7.84E-06 | 5.92E-06 | 5.92E-06 | 3.26E-06 | 2.93E-07 | 4.24E-06 | 2.63E-06 | 2.63E-06 | 1.30E-06 |
| 1530 | 258703.7 | 4083573.88 | 3.7191E-06 | 5.38E-05 | 3.96E-05 | 3.96E-05 | 2.21E-05 | 5.64E-07 | 8.19E-06 | 6.19E-06 | 6.19E-06 | 3.40E-06 | 3.07E-07 | 4.43E-06 | 2.75E-06 | 2.75E-06 | 1.36E-06 |
| 1531 | 258726.29 | 4083582.24 | 3.8912E-06 | 5.62E-05 | 4.15E-05 | 4.15E-05 | 2.31E-05 | 5.91E-07 | 8.57E-06 | 6.48E-06 | 6.48E-06 | 3.56E-06 | 3.21E-07 | 4.64E-06 | 2.88E-06 | 2.88E-06 | 1.43E-06 |
| 1532 | 258748.88 | 4083590.61 | 4.0695E-06 | 5.89E-05 | 4.34E-05 | 4.34E-05 | 2.42E-05 | 6.18E-07 | 8.97E-06 | 6.77E-06 | 6.72E-06 | 2.72E-06 | 3.25E-07 | 4.85E-06 | 3.01E-06 | 3.01E-06 | 1.49E-06 |
| 1533 | 258771.48 | 4083598.97 | 4.2529E-06 | 6.15E-05 | 4.53E-05 | 4.52E-05 | 2.53E-05 | 6.46E-07 | 9.37E-06 | 7.08E-06 | 7.03E-06 | 3.89E-06 | 3.51E-07 | 5.07E-06 | 3.15E-06 | 3.15E-06 | 1.58E-06 |
| 1534 | 258794.07 | 4083607.33 | 4.4465E-06 | 6.43E-05 | 4.74E-05 | 4.74E-05 | 2.64E-05 | 6.75E-07 | 9.80E-06 | 7.40E-06 | 7.40E-06 | 4.07E-06 | 3.67E-07 | 5.30E-06 | 3.29E-06 | 3.29E-06 | 1.63E-06 |
| 1535 | 258816.66 | 4083615.7 | 4.6453E-06 | 6.72E-05 | 4.95E-05 | 4.95E-05 | 2.76E-05 | 7.05E-07 | 1.02E-05 | 7.73E-06 | 7.72E-06 | 4.25E-06 | 3.83E-07 | 5.54E-06 | 3.44E-06 | 3.44E-06 | 1.70E-06 |
| 1536 | 258839.25 | 4083624.06 | 4.8502E-06 | 7.02E-05 | 5.17E-05 | 5.17E-05 | 2.88E-05 | 7.36E-07 | 1.07E-05 | 8.07E-06 | 8.07E-06 | 4.44E-06 | 4.00E-07 | 5.78E-06 | 3.59E-06 | 3.59E-06 | 1.78E-06 |
| 1537 | 258861.84 | 4083632.43 | 5.0592E-06 | 7.32E-05 | 5.39E-06 | 5.39E-06 | 3.01E-05 | 7.68E-07 | 1.11E-05 | 8.42E-06 | 8.42E-06 | 4.62E-06 | 4.17E-07 | 6.03E-06 | 3.75E-06 | 3.75E-06 | 1.85E-06 |
| 1538 | 258884.43 | 4083640.29 | 5.2744E-06 | 7.63E-05 | 5.62E-05 | 5.62E-05 | 3.13E-05 | 8.00E-07 | 1.16E-05 | 8.78E-06 | 8.78E-06 | 4.83E-06 | 4.25E-07 | 6.29E-06 | 3.91E-06 | 3.91E-06 | 1.93E-06 |
| 1539 | 258907.02 | 4083649.15 | 5.4936E-06 | 7.95E-05 | 5.86E-05 | 5.86E-05 | 3.27E-05 | 6.34E-07 | 1.21E-05 | 9.14E-06 | 9.14E-06 | 5.03E-06 | 4.53E-07 | 6.55E-06 | 4.07E-06 | 4.07E-06 | 2.01E-06 |
| 1540 | 258929.61 | 4083657.52 | 0.000005719 | 8.27E-05 | 6.10E-05 | 6.10E-05 | 3.40E-05 | 8.68E-07 | 1.26E-05 | 9.52E-06 | 9.52E-06 | 5.23E-06 | 4.71E-07 | 6.82E-06 | 4.24E-06 | 4.24E-06 | 2.10E-06 |
| 1541 | 258952.2 | 4083665.88 | 5.9465E-06 | 8.60E-05 | 6.34E-05 | 6.34E-05 | 3.53E-05 | 9.02E-07 | 1.31E-05 | 9.90E-06 | 9.90E-06 | 5.44E-06 | 4.90E-07 | 7.09E-06 | 4.40E-06 | 4.40E-06 | 2.18E-06 |
| 1542 | 258974.29 | 4083674.15 | 0.000006178 | 6.94E-05 | 6.59E-06 | 6.59E-06 | 3.67E-05 | 9.38E-07 | 1.36E-05 | 1.03E-05 | 1.03E-05 | 5.65E-06 | 5.09E-07 | 7.27E-06 | 4.58E-06 | 4.58E-06 | 2.26E-06 |
| 1543 | 258997.38 | 4083682.61 | 6.4116E-06 | 9.27E-05 | 6.84E-05 | 6.84E-05 | 3.81E-05 | 9.73E-07 | 1.41E-05 | 1.07E-05 | 1.07E-05 | 5.87E-06 | 5.29E-07 | 7.64E-06 | 4.75E-06 | 4.75E-06 | 2.35E-06 |
| 1544 | 259019.98 | 4083690.97 | 6.6473E-06 | 9.61E-05 | 7.09E-06 | 7.09E-05 | 3.95E-06 | 1.01E-06 | 1.46E-05 | 1.11E-05 | 1.11E-05 | 6.08E-06 | 5.46E-07 | 7.92E-06 | 4.92E-06 | 4.92E-06 | 2.44E-06 |
| 1545 | 259042.57 | 4083699.34 | 6.8829E-06 | 9.96E-05 | 7.34E-06 | 7.34E-05 | 4.09E-05 | 1.04E-05 | 1.52E-05 | 1.15E-05 | 1.15E-05 | 6.30E-06 | 5.67E-07 | 8.21E-06 | 5.10E-06 | 5.10E-06 | 2.52E-06 |
| 1546 | 259065.16 | 4083707.7 | 7.1165E-06 | 1.03E-04 | 7.59E-05 | 7.59E-05 | 4.22E-05 | 1.08E-06 | 1.57E-05 | 1.18E-05 | 1.18E-05 | 6.51E-06 | 5.87E-07 | 8.48E-06 | 5.27E-06 | 5.27E-06 | 2.61E-06 |
| 1547 | 259087.75 | 4083716.07 | 7.3481E-06 | 1.06E-04 | 7.83E-05 | 7.83E-05 | 4.27E-05 | 1.12E-06 | 1.62E-05 | 1.22E-05 | 1.22E-05 | 6.72E-06 | 6.06E-07 | 8.78E-06 | 5.44E-06 | 5.44E-06 | 2.69E-06 |
| 1548 | 259110.34 | 4083724.43 | 7.5776E-06 | 1.10E-04 | 8.08E-05 | 8.08E-05 | 4.50E-05 | 1.15E-06 | 1.67E-05 | 1.26E-05 | 1.26E-05 | 6.93E-06 | 6.25E-07 | 9.03E-06 | 5.61E-06 | 5.61E-06 | 2.78E-06 |
| 1549 | 259132.93 | 4083732.29 | 7.8009E-06 | 1.13E-04 | 8.32E-06 | 8.32E-05 | 4.64E-05 | 1.18E-06 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.14E-06 | 6.42E-07 | 9.30E-06 | 5.78E-06 | 5.78E-06 | 2.86E-06 |
| 1550 | 259155.52 | 4083741.16 | 6.0161E-06 | 1.16E-04 | 8.55E-05 | 6.55E-05 | 4.76E-06 | 1.22E-06 | 1.77E-05 | 1.33E-05 | 1.33E-05 | 7.34E-06 | 6.61E-07 | 9.56E-06 | 5.94E-06 | 5.94E-06 | 2.94E-06 |
| 1551 | 259178.11 | 4083749.52 | 0.000008223 | 1.19E-04 | 8.77E-06 | 8.77E-05 | 4.69E-05 | 1.25E-06 | 1.81E-05 | 1.37E-05 | 1.37E-05 | 7.52E-06 | 6.78E-07 | 9.80E-06 | 6.09E-06 | 6.09E-06 | 3.01E-06 |
| 1552 | 259200.7 | 4083757.89 | 8.4197E-06 | 1.22E-04 | 8.98E-05 | 8.98E-05 | 5.00E-06 | 1.28E-06 | 1.85E-05 | 1.40E-05 | 1.40E-05 | 7.70E-06 | 6.94E-07 | 1.00E-06 | 6.24E-06 | 6.24E-06 | 3.09E-06 |
| 1553 | 259223.29 | 4083766.25 | 8.6021E-06 | 1.24E-04 | 9.17E-05 | 9.17E-05 | 5.11E-05 | 1.31E-06 | 1.90E-05 | 1.43E-05 | 1.43E-05 | 7.87E-06 | 7.09E-07 | 1.03E-05 | 6.37E-06 | 6.37E-06 | 3.15E-06 |
| 1554 | 259245.88 | 4083774.61 | 8.7722E-06 | 1.27E-04 | 9.35E-05 | 9.35E-05 | 5.21E-05 | 1.33E-06 | 1.93E-05 | 1.48E-05 | 1.46E-05 | 8.03E-06 | 7.23E-07 | 1.05E-05 | 6.50E-06 | 6.50E-06 | 3.22E-06 |
| 1555 | 259268.48 | 4083782.98 | 8.9238E-05 | 1.29E-04 | 9.51E-05 | 9.51E-05 | 5.30E-05 | 1.35E-06 | 1.97E-05 | 1.49E-05 | 1.49E-05 | 8.17E-06 | 7.36E-07 | 1.06E-05 | 6.61E-06 | 6.61E-06 | 3.27E-06 |
| 1556 | 259291.07 | 4083291.34 | 9.0631E-06 | 1.31E-04 | 9.66E-06 | 9.66E-05 | 5.39E-05 | 1.38E-06 | 2.00E-05 | 1.51E-05 | 1.51E-05 | 8.29E-06 | 7.47E-07 | 1.08E-05 | 6.71E-06 | 6.71E-06 | 3.32E-06 |
| 1557 | 259313.66 | 4083799.71 | 0.000009184 | 1.33E-04 | 9.79E-06 | 9.79E-05 | 5.46E-05 | 1.39E-06 | 2.02E-05 | 1.53E-05 | 1.53E-05 | 8.40E-06 | 7.57E-07 | 1.09E-05 | 6.80E-06 | 6.80E-06 | 3.37E-06 |
| 1558 | 259336.25 | 4083808.07 | 9.2885E-06 | 1.34E-04 | 9.90E-06 | 9.90E-05 | 5.52E-05 | 1.41E-06 | 2.05E-05 | 1.55E-05 | 1.55E-05 | 8.50E-06 | 7.66E-07 | 1.11E-05 | 6.88E-06 | 6.88E-06 | 3.40E-06 |
| 1559 | 259358.84 | 4083816.43 | 9.3787E-06 | 1.36E-04 | 1.00E-04 | 1.00E-04 | 5.57E-05 | 1.42E-06 | 2.07E-05 | 1.56E-05 | 1.56E-05 | 8.58E-06 | 7.73E-07 | 1.12E-05 | 6.95E-06 | 6.95E-06 | 3.44E-06 |
| 1560 | 259391.36 | 4083846.75 | 9.6881E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.76E-05 | 1.47E-06 | 2.13E-05 | 1.61E-05 | 1.61E-05 | 8.87E-06 | 7.99E-07 | 1.16E-05 | 7.17E-06 | 7.17E-06 | 3.55E-06 |
| 1561 | 259401.29 | 4083868.69 | 9.9176E-06 | 1.43E-04 | 1.06E-04 | 1.06E-04 | 5.89E-05 | 1.51E-06 | 2.19E-05 | 1.65E-05 | 1.65E-05 | 9.03E-06 | 8.18E-07 | 1.18E-05 | 7.34E-06 | 7.34E-06 | 3.64E-06 |
| 1562 | 259411.22 | 4083890.64 | 0.000010135 | 1.47E-04 | 1.08E-04 | 1.08E-04 | 6.02E-05 | 1.54E-06 | 2.23E-05 | 1.69E-05 | 1.69E-05 | 9.27E-06 | 8.35E-07 | 1.21E-05 | 7.51E-06 | 7.51E-06 | 3.72E-06 |
| 1563 | 259421.15 | 4083912.59 | 0.000010336 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.14E-05 | 1.57E-06 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.46E-06 | 8.52E-07 | 1.23E-05 | 7.65E-06 | 7.65E-06 | 3.29E-06 |
| 1564 | 259421.08 | 4083934.54 | 0.00001052 | 1.52E-04 | 1.12E-04 | 1.12E-04 | 6.25E-05 | 1.60E-06 | 2.32E-05 | 1.75E-05 | 1.75E-05 | 9.62E-06 | 8.67E-07 | 1.25E-05 | 7.79E-06 | 7.79E-06 | 2.86E-06 |
| 1565 | 259441.01 | 4083956.49 | 0.000010688 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 6.25E-05 | 1.62E-06 | 2.36E-05 | 1.78E-05 | 1.78E-05 | 9.78E-06 | 8.81E-07 | 1.27E-05 | 7.92E-06 | 7.92E-06 | 3.92E-06 |
| 1566 | 259450.94 | 4083978.43 | 0.000010834 | 1.57E-04 | 1.15E-04 | 1.15E-04 | 6.44E-05 | 1.64E-06 | 2.39E-05 | 1.80E-05 | 1.80E-05 | 9.91E-06 | 8.93E-07 | 1.29E-05 | 8.02E-06 | 8.02E-06 | 3.97E-06 |
| 1567 | 259460.87 | 4084000.38 | 0.000010959 | 1.59E-04 | 1.17E-04 | 1.17E-04 | 6.51E-05 | 1.66E-06 | 2.41E-05 | 1.82E-05 | 1.82E-05 | 1.00E-05 | 9.03E-07 | 1.31E-05 | 6.12E-06 | 8.12E-06 | 4.02E-06 |
| 1568 | 259470.29 | 4084022.33 | 0.000011061 | 1.60E-04 | 1.18E-04 | 1.18E-04 | 6.57E-06 | 1.68E-06 | 2.44E-05 | 1.84E-05 | 1.84E-05 | 1.01E-05 | 9.12E-07 | 1.32E-05 | 8.19E-06 | 8.19E-06 | 4.05E-06 |
| 1569 | 259480.72 | 4084044.28 | 0.000011139 | 1.61E-04 | 1.19E-04 | 1.19E-04 | 6.62E-06 | 1.69E-06 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.02E-05 | 9.18E-07 | 1.32E-05 | 6.25E-06 | 8.25E-06 | 4.08E-06 |
| 1570 | 259490.65 | 4084066.23 | 0.00001119 | 1.62E-04 | 1.19E-04 | 1.19E-04 | 6.65E-05 | 1.70E-06 | 2.47E-05 | 1.86E-05 | 1.86E-05 | 1.02E-05 | 9.22E-07 | 1.33E-05 | 8.29E-06 | 8.29E-06 | 4.10E-06 |
| 1571 | 259500.58 | 4084088.17 | 0.000011215 | 1.62E-04 | 1.20E-04 | 1.20E-04 | 6.67E-05 | 1.70E-06 | 2.47E-05 | 1.87E-05 | 1.87E-05 | 1.03E-05 | 9.24E-07 | 1.34E-05 | 8.21E-06 | 8.31E-06 | 4.11E-06 |
| 1572 | 259510.51 | 4084110.12 | 0.000011213 | 1.82E-04 | 1.20E-04 | 1.20E-04 | 6.66E-05 | 1.70E-06 | 2.47E-05 | 1.87E-05 | 1.87E-05 | 1.03E-05 | 9.24E-07 | 1.34E-05 | 6.30E-06 | 8.30E-06 | 4.11E-06 |
| 1573 | 259520.44 | 4084132.07 | 0.000011184 | 1.82E-04 | 1.19E-04 | 1.19E-04 | 8.65E-05 | 1.70E-06 | 2.46E-05 | 1.86E-05 | 1.86E-05 | 1.02E-05 | 9.22E-07 | 1.33E-05 | 8.28E-06 | 8.28E-06 | 4.10E-06 |
| 1574 | 259530.37 | 4084154.02 | 0.000011127 | 1.61E-04 | 1.19E-04 | 1.19E-04 | 6.61E-05 | 1.69E-06 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.02E-05 | 9.17E-07 | 1.33E-05 | 8.24E-06 | 8.24E-06 | 4.08E-06 |
| 1575 | 259540.3 | 4084175.97 | 0.000011045 | 1.60E-04 | 1.18E-04 | 1.18E-04 | 6.56E-05 | 1.68E-06 | 2.43E-05 | 1.84E-05 | 1.84E-05 | 1.01E-05 | 9.10E-07 | 1.32E-05 | 6.18E-06 | 8.18E-06 | 4.05E-06 |
| 1576 | 259550.23 | 4084197.91 | 0.000010936 | 1.58E-04 | 1.17E-04 | 1.17E-04 | 6.50E-05 | 1.66E-06 | 2.41E-05 | 1.82E-05 | 1.82E-05 | 1.00E-06 | 9.01E-07 | 1.30E-05 | 8.10E-06 | 8.10E-06 | 4.01E-06 |
| 1577 | 259560.16 | 4084219.86 | 0.000010807 | 1.56E-04 | 1.25E-04 | 1.15E-04 | 6.42E-05 | 1.64E-06 | 2.38E-05 | 1.80E-05 | 1.80E-05 | 9.89E-06 | 6.91E-07 | 1.29E-05 | 8.00E-06 | 8.00E-06 | 3.96E-06 |
| 2578 | 259570.09 | 4084241.81 | 0.000010657 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.33E-05 | 1.62E-06 | 2.35E-05 | 1.77E-05 | 1.77E-05 | 9.75E-06 | 8.78E-07 | 1.27E-05 | 7.89E-06 | 7.89E-06 | 3.91E-06 |
| 1579 | 259580.02 | 4084263.76 | 0.000010489 | 1.52E-04 | 1.12E-04 | 1.12E-04 | 6.23E-06 | 1.59E-06 | 2.31E-05 | 1.75E-05 | 1.75E-05 | 9.60E-06 | 8.65E-07 | 1.25E-05 | 7.77E-06 | 7.77E-06 | 3.85E-06 |
| 1580 | 259589.95 | 4084285.71 | 0.000010313 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.13E-06 | 1.57E-06 | 2.27E-05 | 1.72E-05 | 1.72E-05 | 9.44E-06 | 8.50E-07 | 1.23E-05 | 7.64E-06 | 7.64E-06 | 3.78E-06 |
| 1581 | 259599.88 | 4084307.65 | 0.000010127 | 1.46E-04 | 1.08E-04 | 1.08E-04 | 6.02E-06 | 1.54E-06 | 2.23E-05 | 1.69E-05 | 1.69E-05 | 9.27E-06 | 6.35E-07 | 1.21E-05 | 7.50E-06 | 7.50E-06 | 3.71E-06 |
| 1582 | 259609.61 | 4084329.6 | 9.9381E-06 | 1.44E-04 | 1.06E-04 | 1.06E-04 | 5.91E-05 | 1.51E-06 | 2.19E-05 | 1.65E-05 | 1.65E-05 | 9.09E-06 | 8.19E-07 | 1.18E-05 | 7.36E-06 | 7.36E-06 | 3.64E-06 |
| 1583 | 259619.74 | 4084351.55 | 9.7516E-06 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.80E-05 | 1.48E-06 | 2.15E-05 | 1.62E-05 | 1.62E-05 | 8.92E-06 | 6.04E-07 | 1.16E-05 | 7.22E-06 | 7.22E-06 | 3.57E-06 |
| 1584 | 259629.67 | 4084373.5 | 9.5672E-06 | 1.38E-04 | 1.02E-04 | 1.02E-04 | 5.69E-06 | 1.45E-06 | 2.11E-05 | 1.59E-05 | 1.59E-05 | 8.75E-06 | 7.89E-07 | 1.14E-05 | 7.09E-06 | 7.09E-06 | 3.51E-06 |
| 1585 | 259639.59 | 4084395.45 | 0.000009389 | 1.36E-04 | 1.00E-04 | 1.00E-04 | 5.58E-06 | 1.42E-06 | 2.07E-05 | 1.56E-05 | 1.56E-05 | 8.59E-06 | 7.74E-07 | 1.12E-05 | 6.95E-06 | 6.95E-06 | 3.44E-06 |
| 1586 | 259649.52 | 4084417.39 | 9.2455E-06 | 1.34E-04 | 9.86E-05 | 9.86E-05 | 5.49E-06 | 1.40E-06 | 2.04E-05 | 1.54E-05 | 1.54E-05 | 8.46E-06 | 7.62E-07 | 1.10E-05 | 6.85E-06 | 6.85E-06 | 3.39E-06 |
| 1587 | 259659.45 | 4084439.34 | 9.0693E-06 | 1.31E-04 | 9.67E-06 | 9.67E-05 | 5.39E-05 | 1.38E-06 | 2.00E-05 | 1.51E-05 | 1.51E-05 | 8.30E-06 | 7.48E-07 | 1.08E-05 | 6.72E-06 | 6.72E-06 | 3.32E-06 |
| 1588 | 259669.38 | 4084461.29 | 0.000008891 | 1.29E-04 | 9.48E-05 | 9.48E-05 | 5.28E-05 | 1.35E-06 | 1.96E-05 | 1.48E-05 | 1.48E-05 | 8.14E-06 | 7.33E-07 | 1.06E-05 | 6.58E-06 | 6.58E-06 | 3.26E-06 |
| 1589 | 259629.31 | 4084483.24 | 6.6984E-06 | 1.26E-04 | 9.27E-05 | 9.27E-05 | 5.17E-06 | 1.32E-06 | 1.92E-05 | 1.45E-05 | 1.45E-05 | 7.96E-06 | 7.17E-07 | 1.04E-05 | 6.44E-06 | 6.44E-06 | 3.19E-06 |
| 1590 | 259689.24 | 4084505.19 | 6.4955E-06 | 1.23E-04 | 9.06E-05 | 9.06E-05 | 5.05E-05 | 1.29E-06 | 1.87E-05 | 1.41E-05 | 1.41E-06 | 7.77E-06 | 7.00E-07 | 1.01E-05 | 6.29E-06 | 6.29E-06 | 3.11E-06 |
| 1591 | 259699.17 | 4084527.13 | 8.2763E-06 | 1.20E-04 | 8.82E-05 | 8.82E-05 | 4.92E-05 | 1.26E-06 | 1.82E-05 | 1.38E-05 | 1.38E-05 | 7.57E-06 | 6.82E-07 | 9.87E-06 | 6.13E-06 | 6.13E-06 | 3.03E-06 |
| 1592 | 259709.1 | 4084549.08 | 8.0386E-06 | 1.16E-04 | 8.57E-06 | 8.57E-06 | 4.78E-05 | 1.22E-06 | 1.77E-05 | 1.34E-05 | 1.34E-05 | 7.36E-06 | 6.63E-07 | 9.58E-06 | 5.95E-06 | 5.95E-06 | 2.95E-06 |
| 1593 | 259719.02 | 4084571.02 | 7.7866E-06 | 1.13E-04 | 8.30E-05 | 8.30E-05 | 4.63E-05 | 1.18E-06 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.13E-06 | 6.42E-07 | 9.28E-06 | 5.77E-06 | 5.72E-06 | 2.85E-06 |
| 1594 | 259728.96 | 4084592.98 | 7.5243E-06 | 1.09E-04 | 8.02E-05 | 8.02E-05 | 4.47E-05 | 1.14E-06 | 1.86E-05 | 1.25E-05 | 1.25E-05 | 6.89E-06 | 6.20E-07 | 8.97E-06 | 5.57E-06 | 5.57E-06 | 2.76E-06 |
| 1595 | 259738.89 | 4084614.93 | 0.000007262 | 1.05E-04 | 7.74E-06 | 7.74E-05 | 4.32E-06 | 1.10E-06 | 1.60E-05 | 1.21E-05 | 1.21E-05 | 6.65E-06 | 5.99E-07 | 8.66E-06 | 5.38E-06 | 5.38E-06 | 2.66E-06 |
| 1596 | 259748.82 | 4084636.87 | 7.0038E-06 | 1.01E-04 | 7.47E-05 | 7.47E-05 | 4.16E-05 | 1.06E-06 | 1.54E-05 | 1.17E-05 | 1.17E-05 | 6.41E-06 | 5.72E-07 | 8.35E-06 | 5.19E-06 | 5.19E-06 | 2.57E-06 |
| 1597 | 259758.75 | 4084658.82 | 0.000006762 | 9.76E-05 | 7.21E-06 | 7.21E-05 | 4.02E-06 | 1.03E-06 | 1.49E-05 | 1.13E-05 | 1.13E-06 | 6.19E-06 | 5.57E-07 | 8.06E-06 | 5.01E-06 | 5.01E-06 | 2.48E-06 |
| 1598 | 259768.68 | 4084680.72 | 6.5387E-06 | 9.46E-05 | 6.97E-05 | 6.97E-06 | 2.89E-05 | 9.92E-07 | 1.44E-05 | 1.09E-05 | 1.09E-05 | 5.98E-06 | 5.39E-07 | 7.80E-06 | 4.84E-06 | 4.84E-06 | 2.40E-06 |
| 1599 | 259778.61 | 4084702.72 | 6.3579E-06 | 9.17E-05 | 6.76E-05 | 6.76E-05 | 3.77E-05 | 9.62E-07 | 1.40E-05 | 1.05E-05 | 1.05E-05 | 5.80E-06 | 5.22E-07 | 7.56E-06 | 4.69E-06 | 4.69E-06 | 2.32E-06 |
| 1600 | 259788.54 | 4084724.67 | 6.1575E-06 | 6.91E-05 | 6.56E-05 | 6.56E-05 | 3.66E-05 | 9.35E-07 | 1.36E-05 | 1.02E-05 | 1.02E-05 | 5.63E-06 | 5.08E-07 | 7.34E-06 | 4.56E-06 | 4.56E-06 | 2.26E-05 |
| 1601 | 259798.47 | 4084746.61 | 5.9916E-06 | 6.67E-05 | 6.39E-06 | 6.39E-05 | 3.56E-05 | 9.09E-07 | 1.32E-05 | 9.97E-06 | 9.97E-06 | 5.48E-06 | 4.94E-07 | 7.14E-06 | 4.44E-06 | 4.44E-06 | 2.20E-06 |
| 1602 | 259808.39 | 4084768.56 | 5.8358E-06 | 8.44E-05 | 6.22E-06 | 6.22E-05 | 3.47E-05 | 8.86E-07 | 1.29E-05 | 9.71E-06 | 9.71E-06 | 5.34E-06 | 4.81E-07 | 6.96E-06 | 4.32E-06 | 4.32E-06 | 2.14E-06 |
| 1603 | 259818.22 | 4084790.51 | 5.6842E-06 | 8.22E-05 | 6.06E-05 | 6.06E-05 | 3.38E-06 | 8.63E-07 | 1.25E-05 | 9.46E-06 | 9.46E-06 | 5.20E-06 | 4.69E-07 | 6.78E-06 | 4.21E-06 | 4.21E-06 | 2.08E-06 |
| 1604 | 259828.25 | 4084812.46 | 5.5305E-06 | 6.00E-05 | 5.90E-06 | 5.90E-05 | 3.29E-05 | 6.39E-07 | 1.22E-05 | 9.21E-06 | 9.21E-06 | 5.06E-06 | 4.56E-07 | 6.59E-06 | 4.10E-06 | 4.10E-06 | 2.03E-06 |
| 1605 | 259838.18 | 4084834.41 | 5.3727E-06 | 7.77E-05 | 5.73E-05 | 5.73E-05 | 3.19E-05 | 8.15E-07 | 1.18E-05 | 8.94E-06 | 8.94E-06 | 4.92E-06 | 4.43E-07 | 6.41E-06 | 3.98E-06 | 3.98E-06 | 1.97E-06 |
| 1606 | 259848.11 | 4084856.35 | 5.2088E-06 | 7.53E-05 | 5.55E-05 | 5.55E-05 | 3.10E-05 | 7.91E-07 | 1.15E-05 | 8.67E-06 | 8.67E-06 | 4.77E-06 | 4.29E-07 | 6.21E-06 | 3.86E-06 | 3.86E-06 | 1.91E-05 |
| 1607 | 258297.07 | 4083423.33 | 1.8749E-06 | 2.71E-05 | 2.00E-05 | 2.00E-05 | 1.11E-05 | 2.65E-07 | 4.13E-06 | 2.12E-06 | 2.12E-06 | 1.72E-06 | 1.55E-07 | 2.24E-06 | 1.39E-06 | 1.39E-06 | 6.87E-07 |
| 1608 | 258272.73 | 4083424.32 | 0.000001838 | 2.66E-05 | 1.96E-05 | 1.96E-05 | 1.09E-05 | 2.79E-07 | 4.05E-06 | 2.06E-06 | 3.06E-06 | 1.68E-06 | 1.52E-07 | 2.19E-06 | 1.36E-06 | 1.36E-06 | 6.74E-07 |
| 1609 | 258248.4 | 4083425.33 | 1.8032E-06 | 2.61E-05 | 1.92E-05 | 1.92E-05 | 1.07E-06 | 2.74E-07 | 2.97E-06 | 3.00E-06 | 2.00E-06 | 1.65E-06 | 1.49E-07 | 2.15E-06 | 1.34E-06 | 1.34E-06 | 6.61E-07 |
| 1610 | 258224.07 | 4083426.22 | 1.7704E-06 | 2.56E-06 | 1.89E-05 | 1.89E-05 | 1.05E-05 | 2.69E-07 | 2.90E-06 | 2.95E-06 | 2.95E-06 | 1.62E-06 | 1.46E-07 | 2.11E-06 | 1.31E-06 | 1.21E-06 | 6.49E-07 |
| 1611 | 258199.74 | 4083427.22 | 1.7276E-06 | 2.51E-05 | 1.85E-06 | 1.85E-06 | 1.03E-05 | 2.64E-07 | 2.83E-06 | 2.89E-06 | 2.89E-06 | 1.59E-06 | 1.43E-07 | 2.07E-06 | 1.29E-06 | 1.29E-06 | 6.27E-07 |
| 1612 | 258175.41 | 4083428.23 | 1.7069E-06 | 2.47E-06 | 1.82E-05 | 1.82E-05 | 1.01E-05 | 2.59E-07 | 3.76E-06 | 2.84E-06 | 2.84E-06 | 1.56E-06 | 1.41E-07 | 2.04E-06 | 1.26E-06 | 1.26E-06 | 6.26E-07 |
| 1613 | 258151.07 | 4083439.22 | 1.6762E-06 | 2.42E-05 | 1.79E-05 | 1.79E-05 | 9.96E-06 | 2.54E-07 | 2.69E-06 | 2.79E-06 | 2.79E-06 | 1.53E-06 | 1.38E-07 | 2.00E-06 | 1.24E-06 | 1.24E-06 | 6.14E-07 |
| 1614 | 258126.74 | 4083430.23 | 1.6454E-06 | 2.38E-05 | 1.75E-06 | 1.75E-05 | 9.78E-06 | 2.50E-07 | 3.63E-06 | 2.74E-06 | 2.74E-06 | 1.51E-06 | 1.36E-07 | 1.96E-06 | 1.22E-06 | 1.22E-06 | 6.03E-07 |
| 1615 | 258102.41 | 4083421.23 | 1.6147E-06 | 2.34E-05 | 1.72E-05 | 1.72E-05 | 9.60E-06 | 2.45E-07 | 3.56E-06 | 2.69E-06 | 2.69E-06 | 1.48E-06 | 1.33E-07 | 1.93E-06 | 1.20E-06 | 1.20E-06 | 5.92E-07 |
| 1616 | 258078.08 | 4083432.33 | 0.000001584 | 2.29E-05 | 1.69E-05 | 1.69E-05 | 9.41E-06 | 2.40E-07 | 3.49E-06 | 2.64E-06 | 2.64E-06 | 1.45E-06 | 1.31E-07 | 1.89E-06 | 1.17E-06 | 1.17E-06 | 5.81E-07 |
| 1617 | 258053.75 | 4083433.33 | 1.5553E-06 | 2.25E-05 | 1.66E-06 | 1.66E-05 | 9.24E-06 | 2.36E-07 | 3.43E-06 | 2.59E-06 | 2.59E-06 | 1.42E-06 | 1.28E-07 | 1.85E-06 | 1.15E-06 | 1.15E-06 | 5.70E-07 |
| 1618 | 258029.42 | 4083434.33 | 1.5245E-06 | 2.21E-05 | 1.62E-06 | 1.62E-05 | 9.06E-06 | 2.31E-07 | 3.36E-06 | 2.54E-06 | 2.54E-06 | 1.40E-06 | 1.26E-07 | 1.82E-06 | 1.13E-06 | 1.13E-06 | 5.

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1401 | 258417.16 | 4083664.58 | 3.0736E-06 | 4.45E-05 | 3.28E-05 | 3.28E-05 | 1.83E-06 | 4.66E-07 | 8.77E-06 | 5.12E-05 | 5.12E-06 | 2.81E-06 | 2.53E-07 | 3.66E-06 | 2.28E-06 | 2.28E-06 | 1.13E-06 |
| 1402 | 258439.54 | 4083672.86 | 3.2089E-06 | 4.64E-05 | 3.42E-05 | 3.42E-05 | 1.91E-05 | 4.87E-07 | 7.07E-06 | 5.34E-06 | 5.34E-06 | 2.94E-06 | 2.65E-07 | 3.83E-06 | 2.38E-06 | 2.38E-06 | 1.18E-06 |
| 1403 | 258461.91 | 4083681.15 | 3.3544E-06 | 4.85E-05 | 3.58E-05 | 3.58E-05 | 1.99E-05 | 5.09E-07 | 7.39E-06 | 5.58E-06 | 5.66E-06 | 3.07E-06 | 2.77E-07 | 4.00E-06 | 2.48E-06 | 2.48E-06 | 1.13E-06 |
| 1404 | 258484.29 | 4083689.43 | 3.5101E-06 | 5.08E-05 | 3.74E-05 | 3.74E-05 | 2.09E-05 | 5.33E-07 | 7.73E-06 | 5.84E-06 | 5.84E-06 | 3.21E-06 | 2.89E-07 | 4.18E-06 | 2.60E-06 | 2.60E-06 | 1.29E-06 |
| 1405 | 258506.66 | 4083697.72 | 3.6802E-06 | 5.32E-05 | 3.92E-05 | 3.92E-05 | 2.19E-05 | 5.59E-07 | 8.11E-06 | 6.13E-06 | 8.13E-06 | 3.37E-06 | 3.03E-07 | 4.39E-06 | 2.73E-06 | 2.73E-06 | 1.35E-06 |
| 1406 | 258529.04 | 4083706 | 3.8605E-06 | 5.58E-05 | 4.12E-05 | 4.12E-05 | 2.29E-05 | 5.86E-07 | 8.51E-06 | 8.43E-06 | 6.43E-06 | 3.53E-06 | 3.18E-07 | 4.60E-06 | 2.86E-06 | 2.86E-06 | 1.42E-06 |
| 1407 | 258551.41 | 4083714.29 | 4.0531E-06 | 5.86E-05 | 4.32E-05 | 4.32E-05 | 2.41E-05 | 6.15E-07 | 8.93E-06 | 6.75E-06 | 6.75E-06 | 3.71E-06 | 3.34E-07 | 4.83E-05 | 3.00E-06 | 3.00E-06 | 1.49E-06 |
| 1408 | 258573.79 | 4083722.57 | 0.000004258 | 8.16E-06 | 4.54E-05 | 4.34E-05 | 2.53E-05 | 6.46E-07 | 9.38E-06 | 7.09E-05 | 7.09E-06 | 3.90E-06 | 3.51E-07 | 5.08E-06 | 3.15E-06 | 3.15E-06 | 1.58E-06 |
| 1409 | 258596.17 | 4083730.85 | 4.4752E-06 | 6.47E-05 | 4.77E-05 | 4.77E-05 | 2.66E-05 | 6.79E-07 | 9.86E-06 | 7.45E-06 | 7.45E-05 | 4.10E-06 | 3.69E-07 | 5.34E-06 | 3.31E-06 | 3.31E-06 | 1.64E-06 |
| 1410 | 258618.54 | 4083739.14 | 4.7027E-06 | 6.80E-05 | 5.01E-05 | 5.01E-05 | 2.79E-05 | 7.14E-07 | 1.04E-06 | 7.83E-06 | 7.83E-06 | 4.30E-06 | 3.88E-07 | 5.61E-06 | 3.48E-06 | 3.48E-06 | 1.72E-06 |
| 1411 | 258640.92 | 4083747.42 | 4.9424E-06 | 7.15E-05 | 5.27E-05 | 5.27E-05 | 2.94E-05 | 7.50E-07 | 1.09E-06 | 8.23E-06 | 8.13E-06 | 4.52E-06 | 4.07E-07 | 5.89E-06 | 3.66E-06 | 3.66E-06 | 1.81E-06 |
| 1412 | 258663.29 | 4083755.71 | 5.1904E-05 | 7.51E-05 | 5.53E-05 | 5.53E-06 | 3.08E-06 | 7.68E-07 | 1.14E-06 | 8.64E-06 | 8.64E-06 | 4.75E-06 | 4.28E-07 | 6.19E-06 | 3.84E-06 | 3.84E-06 | 1.90E-06 |
| 1413 | 258685.67 | 4083763.99 | 5.4506E-06 | 7.88E-05 | 5.81E-05 | 5.81E-06 | 3.24E-05 | 8.27E-07 | 1.20E-05 | 9.07E-06 | 9.07E-06 | 4.99E-06 | 4.49E-07 | 6.50E-06 | 4.04E-06 | 4.04E-06 | 2.00E-06 |
| 1414 | 258708.04 | 4083772.28 | 0.000005719 | 8.27E-05 | 6.10E-06 | 6.10E-05 | 3.40E-05 | 8.68E-07 | 1.26E-05 | 9.52E-06 | 9.52E-06 | 5.23E-06 | 4.71E-07 | 6.82E-06 | 4.24E-06 | 4.24E-06 | 2.10E-05 |
| 1415 | 258730.42 | 4083780.56 | 5.9957E-06 | 8.67E-06 | 6.39E-05 | 8.39E-05 | 3.56E-05 | 9.10E-07 | 1.32E-05 | 9.98E-06 | 9.98E-06 | 5.49E-06 | 4.94E-07 | 7.15E-05 | 4.44E-06 | 4.44E-06 | 2.20E-05 |
| 1416 | 258752.8 | 4083788.84 | 6.2825E-06 | 9.09E-05 | 6.70E-05 | 6.70E-06 | 3.73E-05 | 9.53E-07 | 1.38E-06 | 1.05E-05 | 1.05E-05 | 5.75E-06 | 5.18E-07 | 7.49E-06 | 4.65E-06 | 4.65E-06 | 2.30E-06 |
| 1417 | 258775.17 | 4083797.13 | 6.5735E-06 | 9.51E-06 | 7.01E-06 | 7.01E-05 | 3.91E-05 | 9.98E-07 | 1.45E-05 | 1.09E-06 | 1.09E-06 | 6.02E-06 | 5.42E-07 | 7.84E-06 | 4.87E-06 | 4.87E-06 | 2.41E-06 |
| 1418 | 258797.55 | 4083805.41 | 6.8727E-06 | 9.94E-05 | 7.33E-05 | 7.33E-05 | 4.08E-05 | 1.04E-06 | 1.51E-06 | 1.14E-06 | 1.14E-06 | 6.29E-06 | 5.67E-07 | 8.19E-06 | 5.09E-06 | 5.09E-06 | 2.52E-06 |
| 1419 | 258819.92 | 4083813.7 | 0.000007178 | 1.04E-04 | 7.65E-05 | 7.65E-06 | 4.27E-05 | 1.09E-06 | 1.58E-06 | 1.19E-05 | 1.19E-06 | 6.57E-06 | 5.92E-07 | 8.56E-06 | 5.32E-06 | 5.32E-06 | 2.63E-06 |
| 1420 | 258842.3 | 4083821.98 | 7.4853E-06 | 1.08E-04 | 7.98E-05 | 7.98E-05 | 4.45E-05 | 1.14E-06 | 1.65E-06 | 1.25E-05 | 1.25E-05 | 6.85E-06 | 6.17E-07 | 8.92E-05 | 5.54E-05 | 5.54E-06 | 2.74E-06 |
| 1421 | 258864.68 | 4083830.27 | 7.7948E-06 | 1.13E-04 | 8.31E-05 | 8.31E-05 | 4.63E-05 | 1.18E-06 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.13E-06 | 6.43E-07 | 9.29E-06 | 5.77E-06 | 5.77E-06 | 2.86E-06 |
| 1422 | 258887.05 | 4083838.55 | 8.1062E-06 | 1.17E-04 | 8.64E-05 | 8.64E-05 | 4.82E-05 | 1.23E-06 | 1.79E-05 | 1.35E-05 | 1.35E-06 | 7.42E-06 | 6.68E-07 | 9.66E-06 | 6.00E-06 | 6.00E-06 | 2.97E-06 |
| 1423 | 258909.43 | 4083846.83 | 8.4156E-06 | 1.22E-04 | 8.97E-05 | 8.97E-05 | 5.00E-05 | 1.28E-06 | 1.85E-05 | 1.40E-05 | 1.40E-06 | 7.70E-06 | 8.94E-07 | 1.00E-05 | 8.23E-06 | 8.23E-06 | 3.08E-06 |
| 1424 | 258931.8 | 4083855.12 | 0.000008725 | 1.26E-04 | 9.30E-05 | 9.30E-06 | 5.19E-05 | 1.32E-06 | 1.92E-05 | 1.45E-05 | 1.45E-06 | 7.98E-06 | 7.19E-07 | 1.04E-06 | 6.46E-06 | 6.46E-06 | 3.20E-06 |
| 1425 | 258954.18 | 4083863.4 | 9.0304E-06 | 1.31E-04 | 9.63E-06 | 9.63E-05 | 5.37E-05 | 1.37E-06 | 1.99E-05 | 1.50E-05 | 1.50E-05 | 8.26E-06 | 7.44E-07 | 1.08E-05 | 6.69E-06 | 6.69E-06 | 3.31E-06 |
| 1426 | 258976.55 | 4083871.69 | 9.3316E-06 | 1.35E-04 | 9.95E-05 | 9.95E-05 | 5.56E-05 | 1.42E-05 | 2.08E-05 | 1.55E-05 | 1.55E-05 | 8.54E-06 | 7.69E-07 | 1.11E-05 | 6.91E-06 | 6.91E-06 | 3.42E-06 |
| 1427 | 258998.93 | 4083879.97 | 9.6246E-05 | 1.39E-04 | 1.03E-04 | 1.03E-04 | 5.72E-05 | 1.46E-06 | 2.12E-05 | 1.60E-05 | 1.60E-05 | 8.81E-06 | 7.93E-07 | 1.15E-05 | 7.13E-06 | 7.13E-06 | 3.53E-06 |
| 1428 | 259021.31 | 4083888.26 | 9.9074E-06 | 1.43E-04 | 1.06E-04 | 1.06E-04 | 5.89E-05 | 1.50E-05 | 2.18E-05 | 1.65E-05 | 1.65E-05 | 9.07E-06 | 8.17E-07 | 1.18E-05 | 7.34E-06 | 7.34E-06 | 3.63E-06 |
| 1429 | 259043.68 | 4083896.54 | 0.00001018 | 1.47E-04 | 1.09E-04 | 1.09E-04 | 6.05E-05 | 1.55E-06 | 2.24E-05 | 1.69E-05 | 1.69E-05 | 9.32E-06 | 8.39E-07 | 1.21E-05 | 7.54E-06 | 7.34E-06 | 3.73E-06 |
| 1430 | 259066.06 | 4083904.83 | 0.000010432 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 6.20E-05 | 1.58E-06 | 2.30E-05 | 1.74E-05 | 1.74E-05 | 9.55E-06 | 8.60E-07 | 1.24E-05 | 7.73E-06 | 7.73E-06 | 3.62E-06 |
| 1431 | 259088.43 | 4083913.11 | 0.00001067 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.34E-05 | 1.62E-06 | 2.35E-05 | 1.78E-05 | 1.78E-05 | 9.76E-06 | 8.80E-07 | 1.27E-05 | 7.90E-06 | 7.90E-06 | 3.91E-06 |
| 1432 | 259110.81 | 4083921.39 | 0.000010889 | 1.57E-04 | 1.16E-04 | 1.16E-04 | 6.47E-05 | 1.65E-06 | 2.40E-05 | 1.81E-05 | 1.81E-05 | 9.96E-06 | 8.98E-07 | 1.30E-05 | 8.06E-06 | 8.06E-06 | 3.99E-05 |
| 1433 | 259133.18 | 4083929.68 | 0.00001109 | 1.60E-04 | 1.18E-04 | 1.18E-04 | 6.59E-05 | 1.68E-06 | 2.44E-05 | 1.85E-05 | 1.85E-05 | 1.01E-05 | 9.14E-07 | 1.32E-05 | 8.21E-06 | 8.21E-06 | 4.07E-06 |
| 1434 | 259155.56 | 4083937.96 | 0.000011266 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.70E-05 | 1.71E-06 | 2.48E-05 | 1.88E-05 | 1.88E-05 | 1.03E-05 | 9.29E-07 | 1.34E-05 | 8.34E-06 | 8.34E-06 | 4.13E-06 |
| 1435 | 259177.94 | 4083946.25 | 0.000011413 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.78E-05 | 1.73E-06 | 2.51E-05 | 1.90E-06 | 1.90E-05 | 1.04E-05 | 9.41E-07 | 1.36E-05 | 8.45E-06 | 8.45E-06 | 4.18E-06 |
| 1436 | 259200.31 | 4083954.53 | 0.000011545 | 1.67E-04 | 1.13E-04 | 1.23E-04 | 6.86E-06 | 1.75E-06 | 2.54E-06 | 1.92E-06 | 1.92E-06 | 1.06E-05 | 9.52E-07 | 1.38E-05 | 8.55E-06 | 8.55E-06 | 4.13E-06 |
| 1437 | 259222.69 | 4083962.82 | 0.000011653 | 1.69E-04 | 1.24E-04 | 1.24E-04 | 6.93E-06 | 1.77E-06 | 2.57E-06 | 1.94E-06 | 1.94E-06 | 1.07E-05 | 9.61E-07 | 1.39E-06 | 8.63E-06 | 8.63E-06 | 4.27E-06 |
| 1438 | 259254.9 | 4083992.84 | 0.000012051 | 1.74E-04 | 1.28E-04 | 1.28E-04 | 7.16E-05 | 1.83E-06 | 2.66E-05 | 2.01E-05 | 2.01E-05 | 1.10E-05 | 9.93E-07 | 1.44E-05 | 8.92E-06 | 8.92E-06 | 4.42E-06 |
| 1439 | 259254.73 | 4084014.58 | 0.000012342 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.87E-06 | 2.72E-06 | 2.05E-05 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.14E-06 | 9.14E-05 | 4.52E-06 |
| 1440 | 259274.57 | 4084036.32 | 0.000012616 | 1.83E-04 | 1.35E-04 | 1.35E-04 | 7.50E-06 | 1.92E-06 | 2.78E-05 | 2.10E-06 | 2.10E-05 | 1.15E-05 | 1.04E-05 | 1.50E-05 | 9.34E-06 | 9.34E-06 | 4.63E-06 |
| 1441 | 259284.4 | 4084058.06 | 0.00001287 | 1.86E-04 | 1.37E-04 | 1.37E-04 | 7.65E-05 | 1.95E-06 | 2.84E-05 | 2.14E-05 | 2.14E-05 | 1.18E-05 | 1.06E-06 | 1.53E-05 | 9.53E-06 | 9.53E-06 | 4.72E-06 |
| 1442 | 259294.24 | 4084079.8 | 0.000013094 | 1.89E-04 | 1.40E-04 | 1.40E-04 | 7.78E-06 | 1.99E-06 | 2.89E-05 | 2.18E-05 | 2.18E-06 | 1.20E-05 | 1.08E-06 | 1.56E-06 | 9.70E-06 | 9.70E-06 | 4.80E-05 |
| 1443 | 259304.07 | 4084101.53 | 0.000013286 | 1.92E-04 | 1.42E-04 | 1.42E-04 | 7.90E-05 | 2.02E-06 | 2.93E-05 | 2.21E-05 | 2.21E-05 | 1.22E-05 | 1.10E-06 | 1.58E-06 | 9.84E-06 | 9.84E-06 | 4.87E-06 |
| 1444 | 259313.91 | 4084123.27 | 0.000013446 | 1.94E-04 | 1.43E-04 | 1.43E-04 | 7.99E-06 | 2.04E-06 | 2.96E-05 | 2.24E-05 | 2.24E-05 | 1.13E-05 | 1.11E-06 | 1.60E-05 | 9.96E-06 | 9.96E-06 | 4.93E-06 |
| 1445 | 259323.74 | 4084145.01 | 0.000013569 | 1.96E-04 | 1.45E-04 | 1.45E-04 | 8.06E-06 | 2.06E-06 | 2.99E-05 | 2.26E-05 | 2.26E-05 | 1.24E-05 | 1.12E-05 | 1.62E-05 | 1.00E-05 | 1.00E-05 | 4.97E-06 |
| 1446 | 259333.58 | 4084166.75 | 0.000013653 | 1.97E-04 | 1.46E-04 | 1.46E-04 | 8.11E-05 | 2.07E-06 | 3.01E-05 | 2.27E-05 | 2.27E-06 | 1.25E-05 | 1.13E-06 | 1.63E-05 | 1.01E-05 | 1.01E-05 | 5.00E-06 |
| 1447 | 259343.41 | 4084188.49 | 0.0000137 | 1.98E-04 | 1.46E-04 | 1.46E-04 | 8.14E-06 | 2.08E-06 | 3.02E-06 | 2.28E-05 | 2.28E-05 | 1.25E-05 | 1.13E-06 | 1.63E-06 | 1.01E-05 | 1.01E-05 | 5.02E-06 |
| 1448 | 259353.25 | 4084210.13 | 0.000013706 | 1.98E-04 | 1.46E-04 | 1.46E-04 | 8.15E-06 | 2.08E-06 | 3.02E-05 | 2.28E-05 | 2.28E-06 | 1.25E-06 | 1.13E-06 | 1.63E-05 | 1.02E-06 | 1.02E-06 | 5.02E-06 |
| 1449 | 259363.08 | 4084231.97 | 0.000013674 | 1.98E-04 | 1.46E-04 | 1.46E-04 | 8.13E-05 | 2.08E-06 | 3.01E-05 | 2.28E-05 | 2.28E-06 | 1.25E-06 | 1.13E-06 | 1.63E-06 | 1.01E-06 | 1.01E-06 | 5.01E-06 |
| 1450 | 259372.92 | 4084253.71 | 0.000013602 | 1.97E-04 | 1.45E-04 | 1.45E-04 | 8.08E-06 | 2.06E-06 | 3.00E-06 | 2.26E-06 | 2.26E-05 | 1.24E-05 | 1.12E-06 | 1.62E-06 | 1.01E-06 | 1.01E-06 | 4.99E-06 |
| 1451 | 259382.75 | 4084275.45 | 0.000013495 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.02E-05 | 2.05E-05 | 2.97E-05 | 2.25E-05 | 2.25E-05 | 1.23E-05 | 1.11E-06 | 1.61E-05 | 9.99E-06 | 9.99E-06 | 4.95E-05 |
| 1452 | 259392.59 | 4084297.18 | 0.000013352 | 1.91E-04 | 1.42E-04 | 1.42E-04 | 7.94E-06 | 2.03E-05 | 2.94E-06 | 2.22E-05 | 2.22E-06 | 1.22E-06 | 1.10E-06 | 1.59E-06 | 9.89E-06 | 9.89E-06 | 4.89E-06 |
| 1453 | 259402.42 | 4084318.92 | 0.00001318 | 1.91E-04 | 1.41E-04 | 1.41E-04 | 7.63E-05 | 2.00E-06 | 2.90E-06 | 2.19E-05 | 2.19E-05 | 1.21E-05 | 1.09E-06 | 1.57E-05 | 9.76E-06 | 9.76E-06 | 4.83E-06 |
| 1454 | 259412.26 | 4084340.66 | 0.000012979 | 1.88E-04 | 1.38E-04 | 1.38E-04 | 7.71E-05 | 1.97E-06 | 2.86E-06 | 2.16E-06 | 2.16E-05 | 1.19E-06 | 1.07E-06 | 1.55E-05 | 9.61E-06 | 9.61E-06 | 4.76E-06 |
| 1455 | 259422.09 | 4084362.4 | 0.000012756 | 1.84E-04 | 1.36E-04 | 1.36E-04 | 7.58E-06 | 1.94E-06 | 2.81E-06 | 2.12E-06 | 2.12E-06 | 1.17E-05 | 1.06E-06 | 1.52E-05 | 9.45E-06 | 9.45E-06 | 4.66E-06 |
| 1456 | 259431.93 | 4084384.14 | 0.000012516 | 1.81E-04 | 1.33E-04 | 1.33E-04 | 7.44E-05 | 1.90E-06 | 2.76E-06 | 2.08E-05 | 2.08E-06 | 1.15E-05 | 1.03E-06 | 1.49E-05 | 9.27E-06 | 9.27E-06 | 4.59E-06 |
| 1457 | 259441.76 | 4084405.88 | 0.000012311 | 1.78E-04 | 1.31E-04 | 1.31E-04 | 7.32E-05 | 1.87E-05 | 2.71E-05 | 2.05E-06 | 2.05E-05 | 1.13E-05 | 1.01E-06 | 1.47E-05 | 9.12E-06 | 9.12E-06 | 4.51E-06 |
| 1458 | 259451.6 | 4084427.62 | 0.000012053 | 1.74E-04 | 1.28E-04 | 1.28E-04 | 7.16E-06 | 1.83E-06 | 2.66E-05 | 2.01E-06 | 2.01E-05 | 1.10E-05 | 9.94E-07 | 1.44E-05 | 8.93E-06 | 8.93E-06 | 4.42E-06 |
| 1459 | 259461.43 | 4084449.36 | 0.00001179 | 1.71E-04 | 1.26E-04 | 1.26E-04 | 7.01E-06 | 1.79E-06 | 2.60E-05 | 1.96E-05 | 1.96E-05 | 1.08E-05 | 9.72E-07 | 1.41E-05 | 8.73E-06 | 8.73E-06 | 4.32E-06 |
| 1460 | 259471.26 | 4084471.1 | 0.000011526 | 1.67E-04 | 1.25E-04 | 1.13E-04 | 6.85E-06 | 1.75E-06 | 2.54E-06 | 1.92E-05 | 1.92E-05 | 1.05E-05 | 9.50E-07 | 1.37E-05 | 8.54E-06 | 8.54E-06 | 4.23E-06 |
| 1461 | 259481.1 | 4084492.84 | 0.000011258 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.69E-06 | 1.71E-06 | 2.48E-05 | 1.87E-05 | 1.87E-05 | 1.03E-05 | 9.28E-07 | 1.34E-05 | 8.34E-06 | 8.34E-06 | 4.13E-06 |
| 1462 | 259490.93 | 4084514.57 | 0.00001087 | 1.59E-04 | 1.17E-04 | 1.17E-04 | 6.53E-06 | 1.67E-06 | 2.42E-05 | 1.83E-05 | 1.83E-06 | 1.01E-06 | 9.06E-07 | 1.31E-05 | 8.14E-06 | 8.14E-06 | 4.03E-06 |
| 1463 | 259500.77 | 4084536.31 | 0.000010707 | 1.55E-04 | 1.14E-04 | 1.14E-04 | 6.36E-05 | 1.62E-06 | 2.36E-06 | 1.78E-05 | 1.78E-06 | 9.80E-06 | 8.83E-07 | 1.28E-05 | 7.93E-06 | 7.93E-06 | 3.92E-06 |
| 1464 | 259510.6 | 4084558.05 | 0.000010413 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 6.19E-05 | 1.58E-06 | 2.29E-06 | 1.73E-05 | 1.73E-05 | 9.53E-06 | 8.66E-07 | 1.24E-05 | 7.7 1E-06 | 7.71E-06 | 3.82E-06 |
| 1465 | 259520.44 | 4084579.79 | 0.000010102 | 1.46E-04 | 1.08E-04 | 1.08E-04 | 8.00E-05 | 1.53E-06 | 2.23E-06 | 1.68E-05 | 1.68E-06 | 9.24E-06 | 8.33E-07 | 1.20E-05 | 7.48E-06 | 7.48E-06 | 3.70E-06 |
| 1466 | 259530.27 | 4084601.53 | 9.7742E-06 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.81E-06 | 1.48E-06 | 2.15E-06 | 1.63E-06 | 1.63E-06 | 8.94E-06 | 8.06E-07 | 1.17E-06 | 7.24E-05 | 7.24E-06 | 3.58E-06 |
| 1467 | 259540.11 | 4084623.27 | 0.000009432 | 1.36E-04 | 1.01E-04 | 1.01E-04 | 5.61E-06 | 1.43E-06 | 2.08E-06 | 1.57E-06 | 1.57E-06 | 8.63E-06 | 7.77E-07 | 1.32E-05 | 6.99E-06 | 6.99E-06 | 3.48E-06 |
| 1468 | 259549.94 | 4084645.01 | 9.0816E-06 | 1.31E-04 | 9.68E-06 | 9.68E-05 | 5.40E-05 | 1.38E-06 | 2.00E-06 | 1.51E-06 | 1.51E-06 | 8.31E-06 | 7.49E-07 | 1.08E-05 | 6.73E-06 | 6.73E-06 | 3.33E-06 |
| 1469 | 259559.78 | 4084666.75 | 8.7332E-06 | 1.26E-04 | 9.31E-05 | 9.31E-05 | 5.19E-05 | 1.33E-06 | 1.92E-05 | 1.45E-05 | 1.45E-06 | 7.99E-06 | 7.20E-07 | 1.04E-05 | 6.47E-06 | 6.47E-06 | 3.20E-06 |
| 1470 | 259569.61 | 4084688.49 | 8.3972E-06 | 1.21E-04 | 8.95E-05 | 8.95E-05 | 4.99E-05 | 1.27E-06 | 1.85E-05 | 1.40E-05 | 1.40E-05 | 7.68E-06 | 6.92E-07 | 1.00E-05 | 6.22E-06 | 6.22E-06 | 3.08E-06 |
| 1471 | 259579.45 | 4084710.22 | 8.0816E-06 | 1.17E-04 | 8.62E-06 | 8.62E-05 | 4.80E-05 | 1.23E-06 | 1.78E-06 | 1.35E-05 | 1.35E-05 | 7.40E-06 | 6.66E-07 | 9.64E-05 | 5.98E-06 | 5.98E-06 | 2.96E-06 |
| 1472 | 259589.28 | 4084731.96 | 7.7907E-06 | 1.13E-04 | 8.31E-05 | 8.31E-05 | 4.63E-05 | 1.18E-06 | 1.72E-06 | 1.30E-06 | 1.30E-05 | 7.15E-05 | 6.42E-07 | 9.29E-06 | 5.77E-06 | 5.77E-06 | 2.86E-06 |
| 1473 | 259599.12 | 4084753.7 | 7.5243E-06 | 1.09E-04 | 8.02E-06 | 8.02E-05 | 4.47E-05 | 1.14E-06 | 1.66E-05 | 1.25E-05 | 1.25E-06 | 6.89E-06 | 6.20E-07 | 8.97E-06 | 5.57E-06 | 5.57E-06 | 2.76E-06 |
| 1474 | 259608.95 | 4084775.44 | 7.2784E-06 | 1.05E-04 | 7.76E-05 | 7.76E-05 | 4.33E-05 | 1.10E-06 | 1.60E-05 | 1.21E-05 | 1.21E-06 | 6.66E-06 | 6.00E-07 | 8.68E-05 | 5.39E-06 | 5.39E-06 | 2.67E-06 |
| 1475 | 259618.79 | 4084797.18 | 7.0489E-06 | 1.02E-04 | 7.51E-05 | 7.51E-05 | 4.19E-05 | 1.07E-06 | 1.55E-05 | 1.17E-05 | 1.17E-05 | 6.45E-06 | 5.81E-07 | 8.40E-05 | 5.22E-05 | 5.22E-05 | 2.58E-05 |
| 1476 | 259628.82 | 4084818.92 | 6.8255E-06 | 9.87E-06 | 7.28E-05 | 7.28E-05 | 4.06E-05 | 1.04E-06 | 1.50E-05 | 1.14E-05 | 1.14E-05 | 6.25E-06 | 5.63E-07 | 8.14E-06 | 5.05E-06 | 5.05E-06 | 2.50E-06 |
| 1477 | 259638.46 | 4084840.66 | 6.6042E-06 | 9.55E-06 | 7.04E-05 | 7.04E-05 | 3.93E-05 | 1.00E-06 | 1.46E-05 | 1.10E-06 | 1.10E-05 | 6.04E-06 | 5.44E-07 | 7.87E-06 | 4.89E-06 | 4.89E-06 | 2.42E-06 |
| 1478 | 259648.29 | 4084862.4 | 6.3829E-06 | 9.23E-06 | 6.80E-05 | 6.80E-05 | 3.79E-05 | 9.69E-07 | 1.41E-05 | 1.06E-06 | 1.06E-05 | 5.84E-06 | 5.26E-07 | 7.61E-06 | 4.73E-06 | 4.73E-06 | 2.34E-06 |
| 1479 | 258305.28 | 4083623.16 | 2.5224E-06 | 3.65E-06 | 2.69E-06 | 2.69E-06 | 1.50E-05 | 3.83E-07 | 5.56E-06 | 4.20E-06 | 4.20E-06 | 2.31E-06 | 2.08E-07 | 3.01E-06 | 1.87E-06 | 1.87E-06 | 9.25E-07 |
| 1480 | 258280.95 | 4083624.16 | 0.000002463 | 3.56E-05 | 2.63E-05 | 2.63E-05 | 1.46E-05 | 3.74E-07 | 5.43E-06 | 4.10E-06 | 4.10E-06 | 2.23E-06 | 2.03E-07 | 2.94E-06 | 1.82E-06 | 1.82E-05 | 9.03E-07 |
| 1481 | 258256.62 | 4083625.16 | 2.4056E-06 | 3.48E-05 | 2.56E-05 | 2.58E-05 | 1.43E-05 | 3.65E-07 | 5.30E-06 | 4.00E-06 | 4.00E-06 | 2.20E-06 | 1.98E-07 | 2.87E-05 | 1.78E-05 | 1.78E-06 | 8.82E-07 |
| 1482 | 258232.29 | 4083626.16 | 2.3503E-06 | 3.40E-05 | 2.51E-05 | 2.51E-05 | 1.40E-05 | 3.57E-07 | 5.18E-06 | 3.91E-05 | 3.91E-05 | 2.15E-06 | 1.94E-07 | 2.80E-06 | 1.74E-06 | 1.74E-06 | 8.62E-07 |
| 1483 | 258207.95 | 4083627.16 | 0.000002295 | 3.32E-06 | 2.45E-05 | 2.45E-05 | 1.38E-05 | 3.48E-07 | 5.06E-06 | 3.82E-06 | 3.82E-06 | 2.10E-06 | 1.89E-07 | 2.74E-06 | 1.70E-06 | 1.70E-06 | 8.41E-07 |
| 1484 | 258183.62 | 4083628.16 | 2.2417E-06 | 3.24E-06 | 2.39E-06 | 2.39E-06 | 1.31E-06 | 3.40E-07 | 4.94E-06 | 3.73E-06 | 3.73E-06 | 2.06E-06 | 1.85E-07 | 2.67E-06 | 1.66E-05 | 1.66E-06 | 8.22E-07 |
| 1485 | 258159.29 | 4083629.16 | 2.1884E-06 | 3.17E-06 | 2.33E-05 | 2.33E-06 | 1.30E-06 | 3.32E-07 | 4.62E-06 | 3.64E-06 | 3.64E-06 | 2.00E-05 | 1.80E-07 | 2.61E-06 | 1.62E-06 | 1.62E-06 | 8.02E-07 |
| 1486 | 258134.96 | 4083630.16 | 2.1352E-06 | 3.09E-05 | 2.28E-06 | 2.28E-06 | 1.27E-06 | 3.24E-07 | 4.70E-06 | 3.55E-06 | 3.55E-06 | 1.95E-06 | 1.76E-07 | 2.55E-05 | 1.58E-06 | 1.58E-06 | 7.83E-07 |
| 1487 | 258110.63 | 4083631.16 | 2.0819E-06 | 3.01E-05 | 2.22E-06 | 2.22E-05 | 1.24E-05 | 3.16E-07 | 4.59E-06 | 3.47E-06 | 3.47E-06 | 1.91E-06 | 1.72E-07 | 2.48E-06 | 1.54E-06 | 1.54E-06 | 7.63E-07 |
| 1488 | 258086.29 | 4083632.16 | 2.0307E-06 | 2.94E-05 | 2.16E-05 | 2.16E-05 | 1.21E-05 | 3.08E-07 | 4.47E-05 | 3.38E-06 | 3.38E-06 | 1.86E-06 | 1.67E-07 | 2.42E-06 | 1.50E-06 | 1.50E-06 | 7.44E-07 |
| 1489 | 258061.96 | 4083633.16 | 1.9815E-06 | 2.87E-05 | 2.11E-05 | 2.11E-05 | 1.18E-05 | 3.01E-07 | 4.37E-06 | 3.30E-06 | 3.30E-06 | 1.81E-06 | 1.63E-07 | 2.36E-06 | 1.47E-06 | 1.47E-06 | 7.26E-07 |
| 1490 | 258037.63 | 4083634.16 | 1.9323E-06 | 2.79E-05 | 2.06E-05 | 2.06E-05 | 1.15E-05 | 2.93E-07 | 4.26E-06 | 3.22E-06 | 3.22E-06 | 1.77E-06 | 1.59E-07 | 2.30E-06 | 1.43E-06 | 1.43E-06 | 7.08E-07 |
| 1491 | 258013.3 | 4083635.16 | 1.8831E-06 | 2.72E-05 | 2.01E-05 | 2.01E-05 | 1.12E-05 | 2.86E-07 | 4.15E-06 | 3.13E-06 | 3.13E-06 | 1.72E-06 | 1.55E-07 | 2.25E-06 | 1.39E-06 | 1.39E-06 | 6.90E-07 |
| 1492 | 257988.97 | 4083636.16 | 0.000001838 | 2.66E-05 | 1.96E-06 | 1.96E-05 | 1.09E-06 | 2.79E-07 | 4.05E-06 | 3.06E-06 | 3.06E-06 | 1.66E-06 | 1.52E-07 | 2.19E-06 | 1.36E-06 | 1.36E-06 | 6.74E-07 |
| 1493 | 257964.64 | 4083637.16 | 0.000001793 | 2.59E-05 | 1.91E-05 | 1.91E-05 | 1.07E-06 | 2.72E-07 | 3.95E-06 | 2.98E-06 | 2.98E-06 | 1.64E-06 | 1.48E-07 | 2.14E-06 | 1.33E-06 | 1.33E-06 | 6.57E-07 |
| 1494 | 257940.3 | 4083638.16 | 0.000001752 | 2.53E-05 | 1.87E-05 | 1.87E-06 | 1.04E-06 | 2.66E-07 | 3.86E-06 | 2.92E-06 | 2.92E-06 | 1.60E-06 | 1.44E-07 | 2.09E-06 | 1.30E-06 | 1.30E-06 | 6.42E-07 |
| 1495 | 257915.97 | 4083639.16 | 0.000001711 | 2.47E-05 | 1.62E-05 | 1.82E-06 | 1.02E-06 | 2.60E-07 | 3.77E-06 | 2.85E-06 | 2.85E-06 | 1.57E-06 | 1.41E-07 | 2.04E-06 | 1.27E-06 | 1.27E-06 | 6.27E-07 |
| 1496 | 257891.64 | 4083640.16 | 1.6721E-06 | 2.42E-05 | 1.78E-05 | 1.78E-05 | 9.94E-06 | 2.54E-07 | 3.68E-06 | 2.78E-06 | 2.78E-06 | 1.53E-06 | 1.38E-07 | 1.99E-06 | 1.24E-06 | 1.24E-06 | 6.13E-07 |
| 1497 | 257867.31 | 4083641.16 | 1.6372E-06 | 2.37E-06 | 1.75E-06 | 1.76E-06 | 9.73E-06 | 2.48E-07 | 3.61E-06 | 2.73E-06 | 2.73E-06 | 1.50E-06 | 1.35E-07 | 1.95E-06 | 1.21E-06 | 1.21E-06 | 6.00E-07 |
| 1498 | 257842.98 | 4083642.16 | 1.6024E-06 | 2.32E-06 | 1.71E-05 | 1.71E-06 | 9.52E-06 | 2.43E-07 | 3.53E-06 | 2.67E-06 | 2.67E-06 | 1.47E-06 | 1.32E-07 | 1.91E-06 | 1.19E-06 | 1.19E-06 | 5.87E-07 |
| 1499 | 257818.64 | 4083643.16 | 1.5717E-06 | 2.27E-06 | 1.68E-06 | 1.68E-05 | 9.34E-06 | 2.39E-07 | 3.46E-06 | 2.62E-06 | 2.62E-06 | 1.44E-05 | 1.30E-07 | 1.87E-06 | 1.16E-06 | 1.16E-06 | 5.76E-07 |
| 1500 | 257794.31 | 4083644.16 | 0.000001543 | 2.23E-05 | 1.64E-05 | 1.64E-05 | 9.17E-06 | 2.34E-07 | 3.40E-06 | 2.57E-06 | 2.57E-06 | 1.41E-06 | 1.27E-07 | 1.84E-05 | 1.14E-05 | 1.14E-05 | 5.66E-07 |
| 1501 | 257769.98 | 4083645.16 | 1.5163E-06 | 2.19E-05 | 1.62E-05 | 1.62E-05 | 9.01E-06 | 2.30E-07 | 3.34E-06 | 2.52E-06 | 2.52E-05 | 1.39E-06 | 1.25E-07 | 1.81E-06 | 1.12E-05 | 1.12E-06 | 5.56E-07 |
| 1502 | 257745.65 | 4083646.16 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1284 | 257762.08 | 4084045.83 | 2.6905E-06 | 3.89E-05 | 2.87E-05 | 2.87E-05 | 1.60E-05 | 4.08E-07 | 5.93E-06 | 4.48E-06 | 4.48E-06 | 2.46E-06 | 2.22E-07 | 3.21E-06 | 1.99E-06 | 1.99E-06 | 9.86E-07 |
| 1285 | 257737.75 | 4084046.83 | 2.6331E-06 | 3.81E-05 | 2.81E-05 | 2.81E-05 | 1.56E-05 | 4.00E-07 | 5.80E-06 | 4.38E-06 | 4.38E-06 | 2.41E-06 | 2.17E-07 | 3.14E-06 | 1.95E-06 | 1.95E-06 | 9.65E-07 |
| 1286 | 257213.42 | 4084047.83 | 2.5778E-06 | 3.75E-05 | 2.75E-05 | 2.75E-05 | 1.53E-05 | 3.91E-07 | 5.68E-06 | 4.29E-06 | 4.29E-06 | 2.36E-06 | 2.12E-07 | 3.07E-06 | 1.91E-06 | 1.91E-06 | 9.45E-07 |
| 1287 | 257689.08 | 4084048.83 | 2.5286E-06 | 3.66E-05 | 2.70E-05 | 2.70E-05 | 1.50E-05 | 3.84E-07 | 5.57E-06 | 4.21E-06 | 4.21E-06 | 2.31E-06 | 2.08E-07 | 3.01E-06 | 1.87E-06 | 1.87E-06 | 9.27E-07 |
| 1288 | 257664.75 | 4084049.83 | 2.4794E-06 | 3.59E-05 | 2.64E-05 | 2.64E-05 | 1.47E-06 | 3.76E-07 | 5.46E-06 | 4.15E-06 | 4.13E-06 | 2.27E-06 | 2.04E-07 | 2.96E-06 | 1.84E-06 | 1.84E-06 | 9.09E-07 |
| 1289 | 257640.42 | 4084050.83 | 2.4323E-06 | 3.52E-05 | 2.59E-05 | 2.59E-05 | 1.45E-05 | 3.69E-07 | 5.36E-06 | 4.05E-06 | 4.05E-06 | 2.23E-06 | 2.00E-07 | 2.90E-06 | 1.80E-06 | 1.80E-06 | 6.92E-07 |
| 1290 | 257616.09 | 4084051.83 | 2.3851E-06 | 3.45E-05 | 2.54E-05 | 2.54E-05 | 1.42E-05 | 3.62E-07 | 5.26E-06 | 3.97E-06 | 3.97E-06 | 2.18E-06 | 1.97E-07 | 2.84E-06 | 1.77E-06 | 1.77E-06 | 8.74E-07 |
| 1291 | 257591.76 | 4084052.83 | 0.000002338 | 3.38E-05 | 2.49E-05 | 2.49E-05 | 1.39E-05 | 3.55E-07 | 5.15E-06 | 3.89E-06 | 3.89E-06 | 2.14E-06 | 1.93E-07 | 2.79E-06 | 1.73E-06 | 1.73E-06 | 8.57E-07 |
| 1292 | 257567.43 | 4084053.83 | 2.2888E-06 | 3.31E-05 | 2.44E-05 | 2.44E-05 | 1.36E-05 | 3.47E-07 | 5.04E-06 | 3.81E-06 | 3.81E-06 | 2.09E-06 | 1.89E-07 | 2.73E-06 | 1.70E-06 | 1.70E-06 | 8.39E-07 |
| 1293 | 257543.09 | 4084054.83 | 2.2397E-06 | 3.24E-05 | 2.39E-05 | 2.39E-05 | 1.33E-05 | 3.40E-07 | 4.93E-06 | 3.73E-06 | 3.73E-06 | 2.05E-06 | 1.85E-07 | 2.67E-06 | 1.66E-06 | 1.66E-06 | 8.21E-07 |
| 1294 | 257518.76 | 4084055.83 | 2.1905E-06 | 3.17E-05 | 2.34E-05 | 2.34E-05 | 1.30E-05 | 3.32E-07 | 4.83E-06 | 3.65E-06 | 3.65E-06 | 2.00E-06 | 1.81E-07 | 2.61E-06 | 1.82E-06 | 1.62E-05 | 8.03E-07 |
| 1295 | 258336.22 | 4083831.4 | 3.8666E-05 | 5.59E-05 | 4.12E-05 | 4.12E-05 | 2.30E-05 | 5.87E-07 | 8.52E-06 | 6.44E-06 | 6.44E-06 | 3.54E-06 | 3.19E-07 | 4.61E-06 | 2.66E-06 | 2.86E-05 | 1.42E-06 |
| 1296 | 258358.94 | 4083839.81 | 4.0675E-06 | 5.88E-05 | 4.34E-05 | 4.34E-05 | 2.42E-05 | 6.17E-07 | 8.96E-06 | 6.77E-06 | 6.77E-06 | 3.72E-06 | 3.35E-07 | 4.85E-06 | 3.01E-06 | 3.01E-06 | 1.49E-06 |
| 1297 | 258381.66 | 4083848.22 | 4.2847E-06 | 6.20E-05 | 4.57E-05 | 4.57E-05 | 2.55E-05 | 6.50E-07 | 9.44E-06 | 7.13E-06 | 7.13E-06 | 3.92E-06 | 3.53E-07 | 5.11E-06 | 3.17E-06 | 3.17E-06 | 1.57E-05 |
| 1298 | 258404.38 | 4083856.64 | 4.5203E-06 | 6.54E-05 | 4.82E-05 | 4.82E-05 | 2.69E-05 | 6.86E-07 | 9.96E-06 | 7.52E-06 | 7.52E-06 | 4.14E-06 | 3.75E-07 | 5.39E-06 | 3.35E-06 | 3.35E-06 | 1.66E-06 |
| 1299 | 258427.1 | 4083865.05 | 4.7744E-06 | 6.91E-05 | 5.09E-05 | 5.09E-05 | 2.84E-05 | 7.25E-07 | 1.05E-05 | 7.95E-06 | 7.95E-06 | 4.37E-06 | 3.94E-07 | 5.69E-06 | 3.54E-06 | 3.54E-05 | 1.75E-06 |
| 1300 | 258449.82 | 4083873.46 | 0.000005049 | 7.30E-05 | 5.38E-05 | 5.38E-05 | 3.00E-05 | 7.66E-07 | 1.11E-05 | 8.40E-06 | 8.40E-06 | 4.62E-06 | 4.16E-07 | 6.02E-06 | 3.74E-06 | 3.74E-06 | 1.85E-06 |
| 1301 | 258472.54 | 4083881.87 | 0.000005344 | 7.73E-05 | 5.70E-05 | 5.70E-05 | 3.18E-05 | 8.11E-07 | 1.18E-05 | 8.90E-06 | 8.90E-06 | 4.69E-06 | 4.41E-07 | 6.37E-06 | 3.96E-06 | 3.96E-06 | 1.96E-06 |
| 1302 | 258495.26 | 4083890.28 | 5.6555E-06 | 8.18E-05 | 6.03E-05 | 6.03E-05 | 3.36E-05 | 8.58E-07 | 1.25E-05 | 9.41E-06 | 9.41E-06 | 5.18E-06 | 4.66E-07 | 6.74E-06 | 4.19E-06 | 4.19E-05 | 2.07E-06 |
| 1303 | 258517.98 | 4083898.69 | 5.9854E-06 | 8.66E-05 | 6.38E-05 | 6.38E-05 | 3.56E-05 | 9.06E-07 | 1.32E-05 | 9.96E-06 | 9.96E-06 | 5.48E-06 | 4.93E-07 | 7.14E-06 | 4.43E-06 | 4.43E-06 | 2.19E-06 |
| 1304 | 258540.7 | 4083907.11 | 6.3317E-06 | 9.16E-05 | 6.75E-05 | 6.75E-05 | 3.76E-05 | 9.61E-07 | 1.40E-05 | 1.05E-05 | 1.05E-05 | 5.79E-06 | 5.22E-07 | 7.55E-06 | 4.69E-06 | 4.69E-05 | 2.32E-06 |
| 1305 | 258563.42 | 4083915.52 | 6.6964E-06 | 9.69E-05 | 7.14E-05 | 7.14E-05 | 3.98E-05 | 1.02E-06 | 1.48E-05 | 1.11E-05 | 1.11E-05 | 6.13E-06 | 5.52E-07 | 7.98E-06 | 4.96E-05 | 4.96E-06 | 2.45E-06 |
| 1306 | 258586.14 | 4083923.93 | 7.0755E-06 | 1.02E-04 | 7.54E-05 | 7.54E-05 | 4.21E-05 | 1.07E-06 | 1.58E-05 | 1.18E-05 | 1.18E-05 | 6.47E-06 | 5.83E-07 | 8.44E-06 | 5.24E-06 | 5.24E-06 | 2.59E-06 |
| 1307 | 258608.86 | 4083932.34 | 0.000007469 | 1.08E-04 | 7.96E-05 | 7.96E-05 | 4.44E-05 | 1.13E-06 | 1.65E-05 | 1.24E-05 | 1.24E-05 | 6.83E-06 | 6.16E-07 | 8.90E-06 | 5.53E-06 | 5.53E-06 | 2.74E-06 |
| 1308 | 258631.58 | 4083940.75 | 7.8767E-06 | 1.14E-04 | 8.40E-05 | 8.40E-05 | 4.66E-05 | 1.20E-06 | 1.74E-05 | 1.31E-05 | 1.31E-05 | 7.21E-06 | 6.49E-07 | 9.39E-06 | 5.83E-06 | 5.83E-06 | 2.89E-06 |
| 1309 | 258654.3 | 4083949.17 | 8.2947E-06 | 1.20E-04 | 8.84E-05 | 8.84E-05 | 4.93E-05 | 1.26E-06 | 1.83E-06 | 1.36E-05 | 1.38E-05 | 7.59E-06 | 6.84E-07 | 9.89E-06 | 6.14E-06 | 6.14E-05 | 3.04E-06 |
| 1310 | 258677.02 | 4083957.58 | 0.000008723 | 1.26E-04 | 9.30E-05 | 9.30E-05 | 5.18E-05 | 1.32E-06 | 1.92E-05 | 1.45E-05 | 1.45E-05 | 7.98E-06 | 7.19E-07 | 1.04E-05 | 6.46E-06 | 6.46E-05 | 3.20E-06 |
| 1311 | 258699.74 | 4083965.99 | 9.1595E-06 | 1.32E-04 | 9.76E-05 | 9.76E-05 | 5.44E-06 | 1.39E-06 | 2.02E-05 | 1.52E-05 | 1.52E-05 | 6.36E-06 | 7.55E-07 | 1.09E-05 | 6.78E-06 | 6.78E-06 | 3.36E-06 |
| 1312 | 258722.46 | 4083974.4 | 0.0000096 | 1.39E-04 | 1.02E-04 | 1.02E-04 | 5.71E-05 | 1.46E-05 | 2.12E-06 | 1.60E-05 | 1.60E-05 | 8.78E-06 | 7.91E-07 | 1.14E-05 | 7.11E-06 | 7.11E-06 | 3.52E-06 |
| 1313 | 258745.18 | 4083982.81 | 0.000010045 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.97E-05 | 1.52E-06 | 2.21E-05 | 1.67E-05 | 1.67E-05 | 9.19E-05 | 8.28E-07 | 1.20E-05 | 7.44E-06 | 7.44E-06 | 3.68E-05 |
| 1314 | 258767.9 | 4083991.22 | 0.000010487 | 1.52E-04 | 1.12E-04 | 1.12E-04 | 6.23E-05 | 1.59E-06 | 2.31E-05 | 1.75E-05 | 1.75E-05 | 9.60E-05 | 8.64E-07 | 1.25E-05 | 7.77E-06 | 7.77E-06 | 3.84E-06 |
| 1315 | 258790.62 | 4083999.64 | 0.000010928 | 1.58E-04 | 1.16E-04 | 1.16E-04 | 6.49E-05 | 1.66E-06 | 2.41E-05 | 1.82E-05 | 1.82E-05 | 1.00E-05 | 9.01E-07 | 1.30E-05 | 8.09E-06 | 8.09E-05 | 4.01E-06 |
| 1316 | 258813.34 | 4084008.05 | 0.000011362 | 1.64E-04 | 1.21E-04 | 1.21E-04 | 6.75E-05 | 1.72E-06 | 2.50E-05 | 1.89E-05 | 1.89E-05 | 1.04E-05 | 9.37E-07 | 1.35E-05 | 8.41E-06 | 8.41E-05 | 4.17E-06 |
| 1317 | 258836.06 | 4084016.46 | 0.000011768 | 1.71E-04 | 1.26E-04 | 1.26E-04 | 7.01E-05 | 1.79E-06 | 2.60E-05 | 1.96E-05 | 1.96E-05 | 1.08E-05 | 9.72E-07 | 1.41E-05 | 8.73E-06 | 8.73E-06 | 4.32E-05 |
| 1318 | 258858.78 | 4084024.87 | 0.000012206 | 1.77E-04 | 1.30E-04 | 1.30E-04 | 7.26E-05 | 1.85E-06 | 2.69E-05 | 2.03E-05 | 2.03E-05 | 1.12E-05 | 1.01E-05 | 1.46E-05 | 9.04E-06 | 9.04E-06 | 4.47E-05 |
| 1319 | 258881.5 | 4084033.28 | 0.00001261 | 1.82E-04 | 1.34E-04 | 1.34E-04 | 7.49E-05 | 1.91E-06 | 2.78E-05 | 2.10E-05 | 2.10E-05 | 1.15E-05 | 1.04E-06 | 1.50E-05 | 9.34E-06 | 9.34E-06 | 4.62E-05 |
| 1320 | 258904.22 | 4084041.7 | 0.000012995 | 1.88E-04 | 1.39E-04 | 1.39E-04 | 7.72E-05 | 1.97E-06 | 2.86E-05 | 2.16E-05 | 2.16E-05 | 1.19E-05 | 1.07E-05 | 1.55E-05 | 9.62E-06 | 9.62E-06 | 4.76E-06 |
| 1321 | 258926.94 | 4084050.11 | 0.000013358 | 1.93E-04 | 1.42E-04 | 1.42E-04 | 7.94E-05 | 2.03E-06 | 2.94E-05 | 2.22E-05 | 2.22E-05 | 1.22E-05 | 1.10E-05 | 1.59E-05 | 9.89E-06 | 9.89E-06 | 4.90E-06 |
| 1322 | 258949.66 | 4084058.52 | 0.000013665 | 1.98E-04 | 1.46E-04 | 1.46E-04 | 6.12E-05 | 2.07E-06 | 3.01E-05 | 2.27E-05 | 2.27E-05 | 1.25E-05 | 1.13E-05 | 1.63E-05 | 1.01E-05 | 1.01E-05 | 5.01E-06 |
| 1323 | 258972.38 | 4084066.93 | 0.000013971 | 2.02E-04 | 1.49E-04 | 1.49E-04 | 8.30E-05 | 2.12E-06 | 3.08E-05 | 2.33E-05 | 2.33E-05 | 1.28E-05 | 1.15E-06 | 1.67E-06 | 1.03E-05 | 1.03E-05 | 5.12E-06 |
| 1324 | 258995.1 | 4084075.34 | 0.000014249 | 2.06E-04 | 1.52E-04 | 1.52E-04 | 8.47E-05 | 2.16E-05 | 3.14E-05 | 2.37E-05 | 2.37E-05 | 1.30E-06 | 1.17E-06 | 1.70E-05 | 1.06E-05 | 1.06E-06 | 5.22E-06 |
| 1325 | 259017.82 | 4084083.75 | 0.000014497 | 2.10E-04 | 1.55E-04 | 1.55E-04 | 8.62E-05 | 2.20E-06 | 3.19E-05 | 2.41E-05 | 2.41E-06 | 1.33E-05 | 1.19E-06 | 1.73E-05 | 1.07E-05 | 1.07E-05 | 5.31E-06 |
| 1326 | 259040.54 | 4084092.17 | 0.000014708 | 2.13E-04 | 1.57E-04 | 1.57E-04 | 8.74E-05 | 2.23E-06 | 3.24E-05 | 2.45E-05 | 2.45E-05 | 1.35E-05 | 1.21E-05 | 1.75E-05 | 1.09E-05 | 1.09E-05 | 5.39E-06 |
| 1327 | 259063.26 | 4084100.58 | 0.000014878 | 2.15E-04 | 1.59E-04 | 1.59E-04 | 8.84E-05 | 2.26E-06 | 3.28E-05 | 2.48E-05 | 2.48E-05 | 1.56E-05 | 1.23E-06 | 1.72E-05 | 1.10E-05 | 1.10E-05 | 5.45E-06 |
| 1328 | 259085.98 | 4084108.99 | 0.00001501 | 2.17E-04 | 1.60E-04 | 1.60E-04 | 6.92E-05 | 2.28E-06 | 3.31E-05 | 2.50E-05 | 2.50E-05 | 1.37E-05 | 1.24E-06 | 1.79E-05 | 1.11E-06 | 1.11E-05 | 5.50E-06 |
| 1329 | 259118.68 | 4084139.48 | 0.00001554 | 2.25E-04 | 1.66E-04 | 1.66E-04 | 9.24E-05 | 2.36E-06 | 3.42E-05 | 2.59E-05 | 2.59E-05 | 1.42E-06 | 1.28E-05 | 1.85E-05 | 1.15E-06 | 1.15E-05 | 5.70E-05 |
| 1330 | 259128.67 | 4084161.55 | 0.000015948 | 2.31E-04 | 1.70E-04 | 1.70E-04 | 9.48E-05 | 2.42E-06 | 3.51E-05 | 2.65E-05 | 2.65E-05 | 1.46E-05 | 1.31E-06 | 1.90E-05 | 1.18E-05 | 1.18E-05 | 5.85E-06 |
| 1331 | 259138.66 | 4084183.62 | 0.000016313 | 2.36E-04 | 1.74E-04 | 1.74E-04 | 9.70E-05 | 2.48E-06 | 3.59E-05 | 2.72E-05 | 2.72E-05 | 1.49E-05 | 1.34E-06 | 1.94E-05 | 1.21E-05 | 1.21E-05 | 5.98E-06 |
| 1332 | 259148.64 | 4084205.7 | 0.000016633 | 2.41E-04 | 1.77E-04 | 1.72E-04 | 9.89E-05 | 2.52E-06 | 3.66E-05 | 2.77E-05 | 2.72E-05 | 1.52E-05 | 1.37E-06 | 1.98E-05 | 1.23E-05 | 1.23E-05 | 6.10E-06 |
| 1333 | 259158.63 | 4084227.72 | 0.000016899 | 2.44E-04 | 1.80E-04 | 1.80E-04 | 1.00E-04 | 2.56E-05 | 3.72E-05 | 2.81E-05 | 2.81E-05 | 1.55E-05 | 1.39E-06 | 1.01E-05 | 1.25E-05 | 1.25E-05 | 6.19E-06 |
| 1334 | 259168.61 | 4084249.84 | 0.000017108 | 2.47E-04 | 1.82E-04 | 1.82E-04 | 1.02E-04 | 2.60E-06 | 3.77E-05 | 2.85E-05 | 2.85E-05 | 1.57E-05 | 1.41E-06 | 1.04E-05 | 1.27E-05 | 1.27E-05 | 6.27E-06 |
| 1335 | 259178.6 | 4084271.92 | 0.000017255 | 2.50E-04 | 1.84E-04 | 1.84E-04 | 1.03E-04 | 2.62E-06 | 3.80E-05 | 2.87E-05 | 2.87E-05 | 1.58E-06 | 1.42E-05 | 2.06E-05 | 1.28E-06 | 1.28E-05 | 6.33E-05 |
| 1336 | 259188.59 | 4084293.99 | 0.000017341 | 2.51E-04 | 1.85E-04 | 1.85E-04 | 1.03E-04 | 2.63E-06 | 3.82E-05 | 2.89E-05 | 2.89E-05 | 1.59E-05 | 1.43E-06 | 2.07E-05 | 1.28E-05 | 1.28E-05 | 6.36E-06 |
| 1337 | 259198.57 | 4084316.06 | 0.000017362 | 2.51E-04 | 1.85E-04 | 1.85E-04 | 1.03E-04 | 2.64E-06 | 3.83E-05 | 2.89E-05 | 2.89E-05 | 1.59E-05 | 1.43E-06 | 2.07E-05 | 1.29E-05 | 1.29E-05 | 6.36E-06 |
| 1338 | 259208.56 | 4084338.14 | 0.000017319 | 2.50E-04 | 1.65E-04 | 1.85E-04 | 1.03E-04 | 2.63E-06 | 3.82E-05 | 2.88E-05 | 2.88E-05 | 1.58E-05 | 1.43E-06 | 2.06E-05 | 1.28E-06 | 1.28E-05 | 6.35E-06 |
| 1339 | 259218.54 | 4084360.21 | 0.000017219 | 2.49E-04 | 1.84E-04 | 1.84E-04 | 1.02E-04 | 2.61E-06 | 3.79E-05 | 2.67E-05 | 2.87E-05 | 1.58E-05 | 1.42E-06 | 2.05E-05 | 1.26E-05 | 1.28E-05 | 6.31E-05 |
| 1340 | 259228.53 | 4084382.28 | 0.000017059 | 2.47E-04 | 1.82E-04 | 1.82E-04 | 1.01E-04 | 2.59E-06 | 3.76E-05 | 2.84E-05 | 2.84E-05 | 1.56E-05 | 1.41E-06 | 2.03E-05 | 1.26E-05 | 1.26E-05 | 6.25E-06 |
| 1341 | 259238.52 | 4084404.36 | 0.000016844 | 2.44E-04 | 1.80E-04 | 1.80E-04 | 1.00E-04 | 2.56E-06 | 3.71E-05 | 2.80E-05 | 2.80E-05 | 1.54E-05 | 1.39E-06 | 2.01E-05 | 1.25E-05 | 1.25E-05 | 6.17E-06 |
| 1342 | 259248.5 | 4084426.43 | 0.000016647 | 2.41E-04 | 1.77E-04 | 1.77E-04 | 9.89E-05 | 2.53E-06 | 3.67E-05 | 2.77E-05 | 2.77E-05 | 1.52E-05 | 1.37E-06 | 1.98E-05 | 1.25E-05 | 1.23E-05 | 6.10E-06 |
| 1343 | 259258.49 | 4084448.5 | 0.000016344 | 2.36E-04 | 1.74E-04 | 1.74E-04 | 9.71E-05 | 2.48E-05 | 3.60E-05 | 2.72E-05 | 2.72E-05 | 1.50E-05 | 1.35E-06 | 1.95E-05 | 1.21E-05 | 1.21E-05 | 5.99E-06 |
| 1344 | 259268.48 | 4084470.58 | 0.000016003 | 2.31E-04 | 1.71E-04 | 1.71E-04 | 9.51E-05 | 2.43E-06 | 3.53E-05 | 2.66E-05 | 2.66E-05 | 1.46E-05 | 1.32E-06 | 1.91E-05 | 1.19E-05 | 1.19E-05 | 5.87E-06 |
| 1345 | 259278.46 | 4084492.65 | 0.000015635 | 2.26E-04 | 1.67E-04 | 1.67E-04 | 9.29E-05 | 2.37E-06 | 3.44E-05 | 2.60E-05 | 2.60E-05 | 1.43E-05 | 1.29E-06 | 1.66E-05 | 1.16E-05 | 1.16E-05 | 5.73E-06 |
| 1346 | 259288.45 | 4084514.72 | 0.000015243 | 2.20E-04 | 1.63E-04 | 1.83E-04 | 9.06E-05 | 2.31E-06 | 3.36E-05 | 2.54E-05 | 2.54E-05 | 1.39E-05 | 1.26E-06 | 1.82E-05 | 1.13E-05 | 1.13E-05 | 5.59E-05 |
| 1347 | 259298.43 | 4084536.8 | 0.000014835 | 2.15E-04 | 1.58E-04 | 1.58E-04 | 8.82E-05 | 2.25E-06 | 3.27E-05 | 2.47E-05 | 2.47E-05 | 1.36E-06 | 1.22E-06 | 1.77E-05 | 1.10E-05 | 1.10E-06 | 5.44E-06 |
| 1348 | 259308.42 | 4084558.87 | 0.000014411 | 2.08E-04 | 1.54E-04 | 1.54E-04 | 8.57E-05 | 2.19E-06 | 3.18E-05 | 2.40E-05 | 2.40E-05 | 1.32E-05 | 1.19E-06 | 1.72E-05 | 1.07E-06 | 1.07E-05 | 5.28E-06 |
| 1349 | 259318.41 | 4084580.94 | 0.000013973 | 2.02E-04 | 1.49E-04 | 1.49E-04 | 8.30E-05 | 2.12E-05 | 3.08E-05 | 2.33E-05 | 2.33E-05 | 1.28E-05 | 1.15E-06 | 1.67E-05 | 1.03E-05 | 1.03E-05 | 5.12E-06 |
| 1350 | 259328.39 | 4084603.02 | 0.000013518 | 1.96E-04 | 1.44E-04 | 1.44E-04 | 8.03E-05 | 2.05E-06 | 2.98E-05 | 2.25E-05 | 2.25E-05 | 1.24E-05 | 1.11E-06 | 1.61E-06 | 1.00E-05 | 1.00E-05 | 4.96E-05 |
| 1351 | 259338.38 | 4084625.09 | 0.000013045 | 1.89E-04 | 1.39E-04 | 1.39E-04 | 7.75E-06 | 1.98E-06 | 2.87E-05 | 2.17E-05 | 2.17E-05 | 1.19E-05 | 1.03E-06 | 1.56E-05 | 9.66E-06 | 9.66E-05 | 4.78E-06 |
| 1352 | 259348.36 | 4084647.16 | 0.000012557 | 1.82E-04 | 1.34E-04 | 1.34E-04 | 7.46E-05 | 1.91E-06 | 2.77E-05 | 2.09E-05 | 2.09E-05 | 1.15E-05 | 1.04E-06 | 1.50E-05 | 9.30E-06 | 9.30E-06 | 4.60E-06 |
| 1353 | 259358.35 | 4084669.24 | 0.000012055 | 1.74E-04 | 1.29E-04 | 1.29E-04 | 7.16E-05 | 1.83E-05 | 2.66E-05 | 2.01E-05 | 2.01E-05 | 1.10E-05 | 9.94E-07 | 1.44E-05 | 6.93E-06 | 8.93E-06 | 4.42E-06 |
| 1354 | 259368.34 | 4084691.31 | 0.000011549 | 1.67E-04 | 1.23E-04 | 1.25E-04 | 6.86E-05 | 1.75E-05 | 2.54E-05 | 1.92E-05 | 1.92E-05 | 1.06E-05 | 9.52E-07 | 1.38E-06 | 8.55E-06 | 8.55E-06 | 4.23E-06 |
| 1355 | 259378.32 | 4084713.38 | 0.000011051 | 1.60E-04 | 1.18E-04 | 1.18E-04 | 6.57E-05 | 1.68E-06 | 2.43E-05 | 1.84E-05 | 1.84E-05 | 1.01E-05 | 9.11E-07 | 1.32E-05 | 8.18E-06 | 8.18E-06 | 4.05E-06 |
| 1356 | 259388.31 | 4084735.46 | 0.000010569 | 1.53E-04 | 1.13E-04 | 1.13E-04 | 6.28E-05 | 1.60E-06 | 2.33E-05 | 1.76E-05 | 1.76E-05 | 9.67E-06 | 8.71E-07 | 1.26E-06 | 7.83E-05 | 7.83E-05 | 3.87E-06 |
| 1357 | 259398.29 | 4084757.53 | 0.000010112 | 1.46E-04 | 1.08E-04 | 1.08E-04 | 6.01E-05 | 1.53E-06 | 2.23E-05 | 1.68E-05 | 1.68E-05 | 9.25E-06 | 8.34E-07 | 1.21E-05 | 7.49E-06 | 7.49E-05 | 3.71E-06 |
| 1358 | 259408.28 | 4084779.6 | 9.6851E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.76E-05 | 1.47E-06 | 2.13E-05 | 1.61E-05 | 1.61E-05 | 8.86E-06 | 7.98E-07 | 1.13E-05 | 7.17E-06 | 7.17E-06 | 3.55E-06 |
| 1359 | 259418.27 | 4084801.68 | 9.2906E-06 | 1.34E-04 | 9.90E-05 | 9.90E-05 | 5.52E-05 | 1.41E-06 | 2.05E-05 | 1.55E-05 | 1.55E-05 | 8.50E-06 | 7.66E-07 | 1.11E-05 | 6.88E-06 | 6.88E-06 | 3.41E-06 |
| 1360 | 259428.25 | 4084823.75 | 8.9177E-06 | 1.29E-04 | 9.51E-05 | 9.51E-05 | 5.30E-05 | 1.35E-06 | 1.96E-05 | 1.48E-05 | 1.48E-05 | 6.16E-06 | 7.35E-07 | 1.06E-05 | 6.60E-06 | 6.60E-06 | 3.27E-05 |
| 1361 | 259438.24 | 4084845.82 | 8.5632E-06 | 1.24E-04 | 9.13E-05 | 9.13E-06 | 5.09E-05 | 1.30E-06 | 1.89E-05 | 1.43E-05 | 1.43E-06 | 7.84E-06 | 7.06E-07 | 1.02E-05 | 6.34E-06 | 6.34E-06 | 3.14E-06 |
| 1362 | 259448.23 | 4084867.9 | 8.2189E-05 | 1.19E-04 | 8.76E-05 | 6.76E-05 | 4.88E-06 | 1.25E-05 | 1.81E-05 | 1.37E-05 | 1.37E-05 | 7.52E-06 | 6.72E-07 | 9.80E-06 | 6.09E-06 | 6.09E-06 | 3.01E-06 |
| 1363 | 258313.5 | 4083822.99 | 3.6843E-06 | 5.33E-05 | 3.93E-05 | 3.93E-05 | 2.19E-06 | 5.59E-07 | 8.12E-06 | 6.13E-06 | 6.13E-06 | 3.37E-06 | 3.04E-07 | 4.39E-06 | 2.73E-06 | 2.75E-05 | 1.35E-05 |
| 1364 | 258289.16 | 4083823.99 | 3.5757E-05 | 5.17E-05 | 3.81E-05 | 3.81E-05 | 2.13E-06 | 5.43E-07 | 7.88E-06 | 5.95E-06 | 5.95E-06 | 3.27E-05 | 2.95E-07 | 4.26E-05 | 2.65E-06 | 2.65E-06 | 1.31E-06 |
| 1365 | 258264.83 | 4083824.99 | 3.4712E-06 | 5.02E-05 | 3.70E-05 | 3.70E-06 | 2.06E-05 | 5.27E-07 | 7.66E-06 | 5.78E-06 | 5.78E-06 | 3.18E-06 | 2.86E-07 | 4.14E-06 | 2.57E-06 | 2.57E-06 | 1.27E-06 |
| 1366 | 258240.5 | 4083825.99 | 3.3708E-06 | 4.88E-05 | 3.59E-05 | 3.59E-05 | 2.00E-05 | 5.12E-07 | 7.43E-06 | 5.61E-06 | 5.61E-06 | 3.08E-06 | 2.78E-07 | 4.02E-06 | 2.50E-06 | 2.50E-06 | 1.24E-05 |
| 1367 | 258216.17 | 4083826.99 | 3.2724E-06 | 4.73E-05 | 3.49E-05 | 3.49E-05 | 1.94E-05 | 4.97E-07 | 7.21E-06 | 5.45E-06 | 5.45E-06 | 2.99E-06 | 2.70E-07 | 3.90E-06 | 2.42E-05 | 2.42E-06 | 1.20E-06 |
| 1368 | 258191.84 | 4083827.99 | 0.000003174 | 4.59E-05 | 3.36E-05 | 3.38E-05 | 1.89E-05 | 4.82E-07 | 6.99E-06 | 5.28E-05 | 5.28E-05 | 2.90E-05 | 2.62E-07 | 3.78E-06 | 2.35E-06 | 2.35E-06 | 1.16E-06 |
| 1369 | 258167.51 | 4083828.99 | 3.0798E-06 | 4.45E-05 | 3.28E-05 | 3.28E-05 | 1.83E-05 | 4.67E-07 | 6.79E-05 | 5.13E-05 | 5.13E-05 | 2.82E-06 | 2.54E-07 | 3.67E-06 | 2.28E-06 | 2.28E-05 | 1.13E-06 |
| 1370 | 258143.17 | 4083829.99 | 2.9855E-06 | 4.32E-05 | 3.18E-05 | 3.18E-05 | 1.77E-06 | 4.53E-07 | 6.36E-06 | 4.97E-06 | 4.97E-06 | 2.73E-06 | 2.46E-07 | 3.56E-06 | 2.21E-06 | 2.21E-05 | 1.09E-06 |
| 1371 | 258118.84 | 4083830.99 | 2.8931E-06 | 4.18E-05 | 3.08E-05 | 3.08E-05 | 1.72E-05 | 4.39E-07 | 6.38E-05 | 4.82E-06 | 4.82E-06 | 2.65E-06 | 2.38E-07 | 3.45E-06 | 2.14E-06 | 2.14E-05 | 1.06E-06 |
| 1372 | 258094.51 | 4083831.99 | 2.8011E-06 | 4.05E-05 | 2.99E-05 | 2.99E-05 | 1.66E-05 | 4.25E-07 | 6.17E-05 | 4.66E-05 | 4.66E-06 | 2.56E-05 | 2.31E-07 | 3.34E-06 | 2.07E-05 | 2.07E-06 | 1.03E-05 |
| 1373 | 258070.18 | 4083832.99 | 0.000002713 | 3.92E-05 | 2.69E-05 | 2.89E-05 | 1.61E-05 | 4.12E-07 | 5.98E-06 | 4.52E-05 | 4.52E-05 | 2.48E-05 | 2.24E-07 | 3.23E-06 | 2.01E-06 | 2.01E-06 | 9.95E-07 |
| 1374 | 258045.85 | 4083833.99 | 0.000002629 | 3.80E-05 | 2.80E-05 | 2.80E-06 | 1.56E-05 | 3.99E-07 | 5.79E-06 | 4.38E-05 | 4.38E-06 | 2.41E-06 | 2.17E-07 | 3.13E-06 | 1.95E-06 | 1.95E-06 | 9.64E-07 |
| 1375 | 258021.51 | 4083834.99 | 0.000002547 | 3.68E-05 | 2.72E-05 | 2.72E-05 | 1.51E-05 | 3.87E-07 | 5.61E-06 | 4.24E-06 | 4.24E-06 | 2.33E-06 | 2.10E-07 | 3.04E-06 | 1.89E-06 | 1.89E-05 | 9.34E-07 |
| 1376 | 257997.18 | 4083835.99 | 2.4692E-06 | 3.57E-05 | 2.63E-05 | 2.63E-05 | 1.47E-05 | 3.75E-07 | 5.44E-06 | 4.11E-06 | 4.11E-06 | 2.26E-06 | 2.04E-07 | 2.94E-05 | 1.83E-06 | 1.83E-06 | 9.05E-07 |
| 1372 | 257972.85 | 4083836.99 | 2.3933E-06 | 3.46E-05 | 2.55E-05 | 2.55E-05 | 1.42E-05 | 3.63E-07 | 5.27E-06 | 3.98E-06 | 3.98E-06 | 2.19E-06 | 1.97E-07 | 2.85E-06 | 1.77E-06 | 1.77E-06 | 8.77E-07 |
| 1378 | 257948.52 | 4083837.99 | 2.3257E-06 | 3.36E-05 | 2.48E-05 | 2.48E-05 | 1.38E-05 | 3.53E-07 | 5.12E-06 | 3.87E-06 | 3.87E-06 | 2.13E-06 | 1.92E-07 | 2.77E-06 | 1.72E-06 | 1.72E-06 | 8.53E-07 |
| 1379 | 257924.19 | 4083838.99 | 2.2602E-06 | 3.27E-05 | 2.41E-05 | 2.41E-05 | 1.34E-05 | 3.43E-07 | 4.98E-06 | 3.76E-06 | 3.76E-06 | 2.07E-06 | 1.86E-07 | 2.69E-06 | 1.67E-06 | 1.67E-06 | 6.28E-07 |
| 1380 | 257899.86 | 4083839.99 | 2.2007E-06 | 3.18E-05 | 2.35E-05 | 2.35E-05 | 1.31E-05 | 3.34E-07 | 4.85E-06 | 3.66E-06 | 3.66E-06 | 2.01E-06 | 1.81E-07 | 2.62E-06 | 1.63E-06 | 1.63E-06 | 6.07E-07 |
| 1381 | 257875.52 | 4083840.99 | 2.1434E-06 | 3.10E-05 | 2.28E-05 | 2.28E-05 | 1.27E-05 | 3.25E-07 | 4.72E-06 | 3.57E-06 | 3.57E-06 | 1.96E-06 | 1.77E-07 | 2.56E-06 | 1.59E-06 | 1.59E-05 | 7.86E-07 |
| 1382 | 257851.19 | 4083841.99 | 2.0921E-06 | 3.03E-05 | 2.23E-05 | 2.23E-05 | 1.24E-05 | 3.18E-07 | 4.61E-06 | 3.48E-06 | 3.48E-06 | 1.91E-06 | 1.72E-07 | 2.49E-06 | 1.55E-06 | 1.55E-05 | 7.67E-07 |
| 1383 | 257826.86 | 4083842.99 | 0.000002045 | 2.96E-05 | 2.18E-05 | 2.18E-05 | 1.22E-05 | 3.10E-07 | 4.51E-06 | 3.40E-05 | 3.40E-06 | 1.67E-06 | 1.69E-07 | 2.44E-05 | 1.51E-05 | 1.51E-06 | 7.50E-07 |
| 1384 | 257802.53 | 4083843.99 | 0.000002002 | 2.90E-05 | 2.13E-05 | 2.13E-05 | 1.19E-05 | 3.04E-07 | 4.41E-05 | 3.33E-05 | 3.33E-06 | 1.83E-06 | 1.65E-07 | 2.39E-06 | 1.48E-05 | 1.48E-06 | 7.34E-07 |
| 1385 | 257778.2 | 4083845 | 0.000001963 | 2.84E-05 | 2

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1167 | 259019.7 | 4084816.14 | 0.000020835 | 3.01E-04 | 2.22E-04 | 2.22E-04 | 1.24E-04 | 3.16E-06 | 4.59E-05 | 3.47E-05 | 3.47E-05 | 1.91E-05 | 1.72E-06 | 2.48E-05 | 1.54E-06 | 1.54E-05 | 7.64E-06 |
| 1168 | 259029.37 | 4084837.51 | 0.000019593 | 2.83E-04 | 2.09E-04 | 2.09E-04 | 1.16E-04 | 2.97E-06 | 4.32E-05 | 3.26E-05 | 3.26E-05 | 1.79E-05 | 1.62E-05 | 2.34E-05 | 1.45E-05 | 1.45E-05 | 7.18E-06 |
| 1169 | 259039.04 | 4084858.89 | 0.000018407 | 2.66E-04 | 1.96E-04 | 1.96E-04 | 1.09E-04 | 2.79E-06 | 4.06E-05 | 3.06E-05 | 3.06E-05 | 1.68E-05 | 1.52E-05 | 2.19E-05 | 1.36E-06 | 1.36E-05 | 6.75E-06 |
| 1170 | 259048.71 | 4084880.26 | 0.000017282 | 2.50E-04 | 1.84E-04 | 1.84E-04 | 1.03E-04 | 2.81E-06 | 3.81E-05 | 2.88E-05 | 2.88E-05 | 1.58E-05 | 1.42E-05 | 2.06E-05 | 1.28E-05 | 1.28E-05 | 6.33E-06 |
| 1171 | 258329.93 | 4084222.65 | 0.000011687 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.06E-05 | 1.80E-06 | 2.62E-05 | 1.98E-05 | 1.98E-05 | 1.09E-05 | 9.80E-07 | 1.42E-06 | 8.80E-06 | 8.80E-06 | 4.36E-06 |
| 1172 | 258305.59 | 4084223.65 | 0.000011409 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.78E-05 | 1.73E-06 | 2.51E-05 | 1.90E-05 | 1.90E-05 | 1.04E-06 | 9.40E-07 | 1.36E-05 | 8.45E-06 | 8.45E-05 | 4.18E-06 |
| 1173 | 258281.26 | 4084224.65 | 0.000010934 | 1.58E-04 | 1.17E-04 | 1.17E-04 | 6.50E-05 | 1.66E-06 | 2.41E-05 | 1.82E-05 | 1.82E-05 | 1.00E-05 | 9.01E-07 | 1.30E-06 | 8.10E-06 | 8.10E-06 | 4.01E-06 |
| 1174 | 258256.93 | 4084225.65 | 0.000010463 | 1.51E-04 | 1.12E-04 | 1.12E-04 | 6.22E-05 | 1.59E-06 | 2.31E-05 | 1.74E-05 | 1.74E-05 | 9.57E-06 | 8.62E-07 | 1.25E-05 | 7.75E-06 | 7.75E-06 | 3.84E-05 |
| 1175 | 258232.6 | 4084226.65 | 9.9955E-05 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.94E-05 | 1.52E-06 | 2.20E-05 | 1.66E-06 | 1.66E-05 | 9.15E-06 | 8.24E-07 | 1.19E-05 | 7.40E-06 | 7.40E-06 | 3.66E-06 |
| 1176 | 258208.27 | 4084227.65 | 9.5344E-06 | 1.38E-04 | 1.02E-04 | 1.02E-04 | 5.67E-05 | 1.45E-06 | 2.10E-05 | 1.59E-05 | 1.59E-05 | 6.72E-06 | 7.86E-07 | 1.14E-05 | 7.06E-06 | 7.06E-06 | 3.49E-06 |
| 1177 | 258183.94 | 4084228.65 | 9.0816E-06 | 1.31E-04 | 9.68E-05 | 9.68E-06 | 5.40E-06 | 1.38E-06 | 2.00E-06 | 1.51E-05 | 1.51E-05 | 8.31E-06 | 7.49E-07 | 1.08E-06 | 6.73E-06 | 6.73E-06 | 3.33E-06 |
| 1178 | 258159.6 | 4084229.65 | 0.000008641 | 1.25E-04 | 9.21E-05 | 9.21E-05 | 6.14E-05 | 1.31E-06 | 1.90E-05 | 1.44E-05 | 1.44E-05 | 7.91E-06 | 7.12E-07 | 1.03E-05 | 6.40E-06 | 6.40E-05 | 3.17E-05 |
| 1179 | 258135.27 | 4084230.65 | 8.2148E-06 | 1.19E-04 | 8.76E-05 | 8.76E-05 | 4.88E-06 | 1.25E-06 | 1.81E-06 | 1.37E-05 | 1.37E-05 | 7.52E-05 | 6.72E-07 | 9.79E-06 | 6.08E-06 | 6.08E-06 | 3.01E-06 |
| 1180 | 258110.94 | 4084231.65 | 7.8071E-06 | 1.13E-04 | 8.32E-05 | 8.32E-05 | 4.64E-05 | 1.18E-06 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.14E-06 | 6.44E-07 | 9.31E-06 | 5.78E-06 | 5.78E-06 | 2.86E-06 |
| 1181 | 258086.61 | 4084232.65 | 7.4218E-06 | 1.07E-04 | 7.91E-05 | 7.91E-05 | 4.41E-05 | 1.13E-06 | 1.64E-05 | 1.24E-05 | 1.24E-05 | 6.79E-06 | 6.12E-07 | 8.85E-06 | 5.50E-06 | 5.50E-06 | 2.72E-06 |
| 1182 | 258062.28 | 4084233.65 | 0.000007055 | 1.02E-04 | 7.52E-05 | 7.52E-05 | 4.19E-05 | 1.07E-06 | 1.55E-05 | 1.17E-05 | 1.17E-05 | 6.46E-06 | 5.82E-07 | 8.41E-06 | 5.22E-06 | 5.22E-06 | 2.59E-06 |
| 1183 | 258037.94 | 4084234.65 | 6.7108E-06 | 9.71E-05 | 7.15E-05 | 7.15E-05 | 3.99E-05 | 1.02E-06 | 1.48E-06 | 1.12E-05 | 1.12E-05 | 6.14E-06 | 5.53E-07 | 8.00E-06 | 4.97E-06 | 4.97E-06 | 2.46E-06 |
| 1184 | 258013.61 | 4084235.65 | 0.000006387 | 9.24E-05 | 6.82E-05 | 6.81E-05 | 3.80E-05 | 9.69E-07 | 1.41E-05 | 1.06E-05 | 1.06E-05 | 5.84E-06 | 5.26E-07 | 7.61E-06 | 4.73E-06 | 4.73E-06 | 2.34E-06 |
| 1185 | 257989.28 | 4084236.66 | 6.0858E-06 | 8.80E-05 | 6.49E-05 | 6.49E-06 | 3.82E-06 | 9.24E-07 | 1.34E-06 | 1.01E-05 | 1.01E-05 | 5.57E-06 | 5.02E-07 | 7.26E-06 | 4.51E-06 | 4.51E-05 | 2.23E-06 |
| 1186 | 257964.95 | 4084237.66 | 5.8051E-06 | 8.40E-05 | 6.19E-05 | 6.19E-05 | 3.45E-05 | 8.81E-07 | 1.28E-05 | 9.66E-06 | 9.66E-06 | 5.31E-06 | 4.79E-07 | 6.92E-06 | 4.30E-06 | 4.30E-05 | 2.13E-05 |
| 1187 | 257940.61 | 4084238.66 | 5.5428E-06 | 8.02E-05 | 5.91E-06 | 5.91E-05 | 3.29E-05 | 8.41E-07 | 1.22E-05 | 9.23E-06 | 9.23E-06 | 5.07E-06 | 4.57E-07 | 6.61E-06 | 4.10E-06 | 4.10E-06 | 2.03E-06 |
| 1188 | 257916.29 | 4084239.66 | 0.000005299 | 7.66E-05 | 5.65E-06 | 5.65E-05 | 3.15E-06 | 8.04E-07 | 1.17E-06 | 8.82E-06 | 8.82E-06 | 4.85E-06 | 4.37E-07 | 6.32E-06 | 3.92E-06 | 3.92E-06 | 1.94E-05 |
| 1189 | 257891.95 | 4084240.66 | 5.0736E-06 | 7.34E-05 | 5.41E-05 | 5.41E-05 | 3.02E-05 | 7.70E-07 | 1.12E-05 | 8.44E-06 | 8.44E-06 | 4.64E-06 | 4.18E-07 | 6.05E-06 | 3.76E-06 | 3.76E-06 | 1.86E-06 |
| 1190 | 257867.82 | 4084241.66 | 4.8646E-06 | 7.04E-05 | 5.19E-05 | 5.19E-06 | 2.89E-06 | 7.38E-07 | 1.07E-05 | 8.10E-06 | 8.10E-06 | 4.45E-06 | 4.01E-07 | 5.80E-06 | 3.60E-06 | 3.60E-06 | 1.78E-05 |
| 1191 | 257843.29 | 4084242.66 | 4.6719E-06 | 6.76E-06 | 4.98E-05 | 4.98E-05 | 2.78E-05 | 7.09E-07 | 1.03E-05 | 7.78E-06 | 7.78E-06 | 4.28E-06 | 3.85E-07 | 5.57E-06 | 3.46E-06 | 3.46E-05 | 1.71E-05 |
| 1192 | 257818.96 | 4084243.66 | 4.4957E-06 | 6.50E-05 | 4.79E-05 | 4.79E-05 | 2.67E-05 | 6.82E-07 | 9.91E-06 | 7.48E-06 | 7.48E-06 | 4.11E-06 | 3.71E-07 | 5.36E-06 | 3.33E-06 | 3.33E-06 | 1.65E-06 |
| 1193 | 257794.63 | 4084244.66 | 4.3297E-06 | 6.26E-05 | 4.62E-05 | 4.62E-06 | 2.57E-05 | 6.57E-07 | 9.54E-06 | 7.21E-06 | 7.21E-06 | 3.96E-06 | 3.57E-07 | 5.16E-06 | 3.21E-06 | 3.21E-06 | 1.59E-05 |
| 1194 | 257770.29 | 4084245.66 | 4.1761E-06 | 6.04E-05 | 4.45E-06 | 4.45E-05 | 2.48E-05 | 6.34E-07 | 9.20E-06 | 6.95E-06 | 6.95E-06 | 3.82E-06 | 3.44E-07 | 4.98E-06 | 3.09E-06 | 3.09E-06 | 1.53E-06 |
| 1195 | 257745.96 | 4084246.66 | 4.0326E-06 | 5.83E-05 | 4.30E-05 | 4.30E-05 | 2.40E-05 | 6.12E-07 | 8.89E-06 | 6.71E-06 | 6.71E-06 | 3.69E-06 | 3.32E-07 | 4.81E-06 | 2.99E-06 | 2.99E-06 | 1.48E-06 |
| 1196 | 257721.63 | 4084247.66 | 3.8974E-06 | 5.64E-05 | 4.15E-05 | 4.15E-05 | 2.32E-05 | 5.92E-07 | 8.59E-06 | 6.49E-06 | 6.49E-06 | 3.57E-06 | 3.21E-07 | 4.66E-06 | 2.89E-06 | 2.89E-06 | 1.43E-05 |
| 1197 | 257697.3 | 4084248.66 | 3.7703E-06 | 5.45E-05 | 4.02E-06 | 4.02E-05 | 2.24E-05 | 5.72E-07 | 6.31E-06 | 6.28E-06 | 6.28E-06 | 3.45E-06 | 3.11E-07 | 4.50E-06 | 2.79E-06 | 2.79E-05 | 1.38E-06 |
| 1198 | 257672.97 | 4084249.66 | 3.6535E-06 | 5.28E-05 | 3.89E-05 | 3.89E-05 | 2.17E-06 | 5.54E-07 | 8.05E-06 | 6.08E-05 | 6.08E-06 | 3.34E-06 | 3.01E-07 | 4.36E-06 | 2.71E-06 | 2.71E-05 | 1.34E-06 |
| 1199 | 257648.64 | 4084250.66 | 3.5408E-06 | 5.12E-05 | 3.72E-05 | 3.72E-05 | 2.10E-05 | 5.37E-07 | 7.80E-06 | 5.89E-06 | 5.89E-06 | 3.24E-06 | 2.92E-07 | 4.22E-06 | 2.62E-06 | 2.62E-05 | 1.30E-06 |
| 1200 | 257624.3 | 4084251.66 | 3.4363E-06 | 4.97E-05 | 3.66E-05 | 3.66E-05 | 2.84E-05 | 5.22E-07 | 7.57E-05 | 5.72E-06 | 5.72E-06 | 3.14E-06 | 2.83E-07 | 4.10E-06 | 2.54E-06 | 2.54E-06 | 1.26E-06 |
| 1201 | 257599.97 | 4084252.66 | 3.3359E-06 | 4.82E-05 | 3.56E-05 | 3.56E-05 | 1.98E-05 | 5.05E-07 | 7.35E-06 | 5.55E-06 | 5.55E-06 | 3.05E-06 | 2.75E-07 | 3.98E-06 | 2.47E-06 | 2.47E-06 | 1.22E-06 |
| 1202 | 257575.64 | 4084253.66 | 3.2417E-06 | 4.69E-05 | 3.46E-05 | 3.46E-05 | 1.93E-06 | 4.92E-07 | 7.14E-05 | 5.40E-06 | 5.40E-06 | 2.97E-06 | 2.67E-07 | 3.86E-06 | 2.40E-06 | 2.40E-06 | 1.19E-06 |
| 1203 | 257551.31 | 4084254.66 | 3.1536E-05 | 4.56E-05 | 3.36E-05 | 3.36E-05 | 1.87E-05 | 4.79E-07 | 6.95E-06 | 5.25E-06 | 5.25E-06 | 2.89E-06 | 2.60E-07 | 3.76E-06 | 2.34E-06 | 2.34E-06 | 1.16E-06 |
| 1204 | 257526.98 | 4084255.68 | 3.0695E-06 | 4.44E-05 | 3.27E-05 | 3.27E-05 | 1.82E-05 | 4.66E-07 | 6.76E-06 | 5.11E-06 | 5.11E-06 | 2.81E-06 | 2.53E-07 | 3.66E-06 | 2.27E-06 | 2.27E-06 | 1.13E-06 |
| 1205 | 258344.15 | 4084031.13 | 6.5059E-06 | 9.41E-05 | 6.94E-05 | 6.94E-06 | 3.87E-05 | 9.87E-07 | 1.43E-06 | 1.08E-05 | 1.08E-05 | 5.95E-06 | 5.36E-07 | 7.76E-06 | 4.82E-06 | 4.82E-05 | 2.38E-06 |
| 1206 | 258366.58 | 4084039.43 | 0.000006928 | 1.00E-04 | 7.39E-05 | 7.39E-05 | 4.12E-05 | 1.05E-06 | 1.53E-06 | 1.15E-05 | 1.15E-05 | 6.34E-06 | 5.71E-07 | 8.26E-06 | 5.13E-06 | 5.13E-05 | 2.54E-06 |
| 1207 | 258389.02 | 4084047.74 | 7.3808E-06 | 1.07E-04 | 7.87E-06 | 7.87E-05 | 4.39E-05 | 1.12E-06 | 1.63E-06 | 1.23E-05 | 1.23E-06 | 6.75E-05 | 6.08E-07 | 8.80E-05 | 5.47E-06 | 5.47E-05 | 2.71E-05 |
| 1208 | 258411.45 | 4084056.04 | 7.8524E-06 | 1.14E-04 | 8.38E-06 | 8.38E-05 | 4.67E-05 | 1.19E-06 | 1.73E-05 | 1.31E-05 | 1.31E-05 | 7.19E-06 | 6.48E-07 | 9.37E-06 | 5.82E-06 | 5.82E-06 | 2.88E-06 |
| 1209 | 258433.89 | 4084064.35 | 8.3726E-06 | 1.21E-04 | 8.93E-05 | 8.93E-05 | 4.98E-06 | 1.27E-06 | 1.84E-05 | 1.39E-06 | 1.39E-05 | 7.66E-05 | 6.90E-07 | 9.98E-05 | 6.20E-06 | 6.20E-06 | 3.07E-06 |
| 1210 | 258456.32 | 4084072.66 | 8.9095E-06 | 1.29E-04 | 9.50E-05 | 9.50E-05 | 5.30E-05 | 1.35E-06 | 1.96E-05 | 1.48E-05 | 1.48E-05 | 8.15E-06 | 7.34E-07 | 1.06E-06 | 6.60E-06 | 6.60E-05 | 3.27E-06 |
| 1211 | 258478.76 | 4084080.96 | 9.4709E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.63E-05 | 1.44E-06 | 2.09E-05 | 1.58E-06 | 1.58E-05 | 8.67E-06 | 7.81E-07 | 1.13E-05 | 7.01E-06 | 7.01E-05 | 3.47E-06 |
| 1212 | 258501.19 | 4084089.27 | 0.000010055 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.98E-05 | 1.53E-06 | 2.22E-05 | 1.67E-06 | 1.67E-05 | 9.20E-05 | 8.29E-07 | 1.20E-05 | 7.45E-06 | 7.45E-05 | 3.69E-06 |
| 1213 | 258523.63 | 4084097.58 | 0.000010659 | 1.54E-04 | 1.14E-04 | 1.14E-04 | 6.34E-05 | 1.62E-06 | 2.35E-05 | 1.77E-06 | 1.77E-06 | 9.75E-06 | 8.79E-07 | 1.27E-06 | 7.89E-06 | 7.89E-06 | 3.91E-06 |
| 1214 | 258546.06 | 4084105.88 | 0.00001128 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.70E-05 | 1.71E-06 | 2.49E-06 | 1.88E-05 | 1.88E-06 | 1.03E-05 | 9.30E-07 | 1.34E-05 | 8.35E-06 | 8.35E-06 | 4.13E-06 |
| 1215 | 258568.5 | 4084114.19 | 0.000011913 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.06E-05 | 1.81E-06 | 2.63E-05 | 1.98E-05 | 1.98E-05 | 1.09E-05 | 9.82E-07 | 1.42E-05 | 8.82E-06 | 8.82E-06 | 4.37E-06 |
| 1216 | 258590.93 | 4084122.5 | 0.000012557 | 1.82E-04 | 1.34E-04 | 1.34E-04 | 7.46E-05 | 1.91E-06 | 2.72E-05 | 2.09E-06 | 2.09E-05 | 1.15E-05 | 1.04E-06 | 1.50E-05 | 9.30E-06 | 9.30E-06 | 4.60E-06 |
| 1217 | 258613.37 | 4084130.8 | 0.000013204 | 1.91E-04 | 1.41E-04 | 1.41E-04 | 7.85E-05 | 2.00E-06 | 2.91E-06 | 2.20E-05 | 2.20E-06 | 1.21E-06 | 1.09E-06 | 1.57E-05 | 9.78E-06 | 9.78E-05 | 4.84E-06 |
| 1218 | 258635.8 | 4084139.11 | 0.000013854 | 2.00E-04 | 1.48E-04 | 1.48E-04 | 8.23E-05 | 2.10E-06 | 3.05E-05 | 2.31E-05 | 2.31E-06 | 1.27E-05 | 1.14E-06 | 1.65E-05 | 1.03E-05 | 1.03E-05 | 5.08E-06 |
| 1219 | 258658.24 | 4084147.41 | 0.000014499 | 2.10E-04 | 1.55E-04 | 1.55E-04 | 8.62E-05 | 2.20E-06 | 3.19E-05 | 2.41E-05 | 2.41E-06 | 1.33E-05 | 1.20E-05 | 1.73E-05 | 1.07E-05 | 1.07E-05 | 5.32E-06 |
| 1220 | 258680.67 | 4084155.72 | 0.000015137 | 2.19E-04 | 1.61E-04 | 1.61E-04 | 9.00E-05 | 2.30E-06 | 3.34E-06 | 2.52E-05 | 2.52E-06 | 1.39E-05 | 1.25E-05 | 1.80E-05 | 1.12E-05 | 1.12E-05 | 5.55E-06 |
| 1221 | 258703.11 | 4084164.03 | 0.000015762 | 2.28E-04 | 1.68E-04 | 1.68E-04 | 9.37E-05 | 2.39E-06 | 3.47E-05 | 2.62E-05 | 2.62E-05 | 1.44E-05 | 1.30E-06 | 1.88E-05 | 1.17E-05 | 1.17E-06 | 5.78E-06 |
| 1222 | 258725.54 | 4084172.33 | 0.00001637 | 2.37E-04 | 1.75E-04 | 1.75E-04 | 9.73E-05 | 2.48E-06 | 3.61E-05 | 2.72E-05 | 2.72E-05 | 1.50E-05 | 1.35E-06 | 1.95E-05 | 1.21E-06 | 1.21E-05 | 6.00E-06 |
| 1223 | 258747.98 | 4084180.64 | 0.000016958 | 2.45E-04 | 1.81E-04 | 1.81E-04 | 1.01E-04 | 2.57E-05 | 3.74E-05 | 2.82E-05 | 2.82E-06 | 1.55E-05 | 1.40E-06 | 2.02E-05 | 1.26E-05 | 1.28E-05 | 6.22E-06 |
| 1224 | 258770.41 | 4084188.95 | 0.000017518 | 2.53E-04 | 1.87E-04 | 1.87E-04 | 1.04E-04 | 2.66E-06 | 3.86E-05 | 2.92E-06 | 2.92E-05 | 1.60E-06 | 1.44E-06 | 2.09E-05 | 1.30E-06 | 1.30E-05 | 6.42E-06 |
| 1225 | 258792.85 | 4084197.25 | 0.000018048 | 2.61E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.74E-06 | 3.98E-05 | 3.00E-05 | 3.00E-05 | 1.65E-06 | 1.49E-06 | 2.15E-05 | 1.34E-05 | 1.34E-05 | 6.62E-05 |
| 1226 | 258815.28 | 4084205.58 | 0.000018542 | 2.68E-04 | 1.98E-04 | 1.98E-04 | 1.10E-04 | 2.81E-06 | 4.09E-05 | 3.09E-05 | 3.09E-06 | 1.70E-05 | 1.53E-05 | 2.21E-05 | 1.37E-05 | 1.37E-05 | 6.80E-05 |
| 1227 | 258837.72 | 4084213.87 | 0.000018993 | 2.75E-04 | 2.02E-04 | 2.02E-04 | 1.13E-04 | 2.88E-06 | 4.19E-05 | 3.16E-05 | 3.16E-05 | 1.74E-05 | 1.57E-05 | 2.26E-05 | 1.41E-05 | 1.41E-05 | 6.96E-06 |
| 1228 | 258860.15 | 4084222.17 | 0.000019391 | 2.80E-04 | 2.07E-04 | 2.07E-04 | 1.15E-04 | 2.94E-06 | 4.27E-06 | 3.23E-05 | 3.23E-05 | 1.77E-05 | 1.60E-05 | 2.31E-05 | 1.44E-05 | 1.44E-05 | 7.11E-06 |
| 1229 | 258882.59 | 4084230.48 | 0.000019723 | 2.85E-04 | 2.10E-04 | 2.10E-04 | 1.17E-04 | 2.99E-05 | 4.35E-05 | 3.28E-05 | 3.28E-05 | 1.80E-05 | 1.63E-06 | 2.35E-05 | 1.46E-06 | 1.46E-05 | 7.23E-05 |
| 1230 | 258905.02 | 4084238.78 | 0.000020016 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.04E-06 | 4.41E-05 | 3.33E-05 | 3.33E-05 | 1.83E-05 | 1.65E-06 | 2.39E-05 | 1.48E-05 | 1.48E-05 | 7.34E-06 |
| 1231 | 258927.46 | 4084247.09 | 0.000020231 | 2.93E-04 | 2.16E-04 | 2.16E-04 | 1.20E-04 | 3.07E-06 | 4.46E-05 | 3.37E-05 | 3.37E-05 | 1.85E-05 | 1.67E-06 | 2.41E-05 | 1.50E-05 | 1.50E-05 | 7.42E-05 |
| 1232 | 258949.89 | 4084255.4 | 0.000020376 | 2.95E-04 | 2.17E-04 | 2.17E-04 | 1.21E-04 | 3.09E-06 | 4.49E-05 | 3.39E-05 | 3.39E-05 | 1.86E-05 | 1.68E-06 | 2.43E-05 | 1.51E-05 | 1.51E-05 | 7.47E-06 |
| 1233 | 258982.19 | 4084285.5 | 0.000021071 | 3.05E-04 | 2.25E-04 | 2.25E-04 | 1.25E-04 | 3.20E-06 | 4.64E-05 | 3.51E-05 | 3.51E-05 | 1.93E-05 | 1.74E-05 | 2.51E-05 | 1.56E-05 | 1.56E-05 | 7.72E-06 |
| 1234 | 258992.05 | 4084307.3 | 0.000021624 | 3.13E-04 | 2.31E-04 | 2.31E-04 | 1.29E-04 | 3.28E-05 | 4.76E-05 | 3.60E-06 | 3.60E-05 | 1.98E-06 | 1.78E-06 | 2.58E-05 | 1.60E-05 | 1.60E-05 | 7.93E-05 |
| 1235 | 259001.91 | 4084329.09 | 0.000022085 | 3.19E-04 | 2.35E-04 | 2.35E-04 | 1.31E-04 | 3.35E-06 | 4.87E-05 | 3.68E-05 | 3.68E-06 | 2.02E-05 | 1.82E-06 | 2.63E-06 | 1.64E-05 | 1.84E-05 | 8.10E-06 |
| 1236 | 259011.77 | 4084350.89 | 0.000022474 | 3.25E-04 | 2.40E-04 | 2.40E-04 | 1.34E-04 | 3.41E-06 | 4.95E-05 | 3.74E-05 | 3.74E-05 | 2.06E-05 | 1.85E-06 | 2.68E-06 | 1.66E-05 | 1.66E-05 | 8.24E-06 |
| 1237 | 259021.63 | 4084372.69 | 0.000022728 | 3.29E-04 | 2.43E-04 | 2.43E-04 | 1.35E-04 | 3.46E-06 | 5.02E-05 | 3.79E-05 | 3.79E-05 | 2.08E-05 | 1.88E-06 | 2.72E-05 | 1.69E-05 | 1.69E-05 | 8.35E-06 |
| 1238 | 259031.5 | 4084394.48 | 0.000022981 | 3.32E-04 | 2.46E-04 | 2.45E-04 | 1.37E-04 | 3.49E-06 | 5.06E-05 | 3.83E-05 | 3.83E-05 | 2.10E-05 | 1.89E-06 | 2.74E-05 | 1.70E-05 | 1.70E-05 | 8.42E-06 |
| 1239 | 259041.35 | 4084416.28 | 0.000023085 | 3.34E-04 | 2.46E-04 | 2.46E-04 | 1.37E-04 | 3.50E-06 | 5.09E-05 | 3.84E-05 | 3.84E-06 | 2.11E-05 | 1.90E-06 | 2.75E-05 | 1.71E-05 | 1.71E-05 | 8.46E-05 |
| 1240 | 259051.22 | 4084438.08 | 0.000023083 | 3.34E-04 | 2.46E-04 | 2.46E-04 | 1.37E-04 | 3.50E-06 | 5.09E-05 | 3.84E-05 | 3.84E-06 | 2.11E-05 | 1.90E-06 | 2.75E-05 | 1.71E-06 | 1.71E-05 | 8.46E-05 |
| 1241 | 259061.08 | 4084459.87 | 0.000022972 | 3.32E-04 | 2.45E-04 | 2.45E-04 | 1.37E-04 | 3.49E-06 | 5.06E-05 | 3.82E-05 | 3.82E-06 | 2.10E-05 | 1.89E-05 | 2.74E-06 | 1.70E-05 | 1.70E-05 | 8.42E-05 |
| 1242 | 259070.94 | 4084481.67 | 0.000022724 | 3.29E-04 | 2.43E-04 | 2.43E-04 | 1.35E-04 | 3.46E-06 | 5.02E-05 | 3.79E-05 | 3.79E-06 | 2.08E-05 | 1.88E-06 | 2.72E-05 | 1.69E-05 | 1.69E-05 | 8.35E-06 |
| 1243 | 259080.8 | 4084503.47 | 0.000022477 | 3.25E-04 | 2.40E-04 | 2.40E-04 | 1.34E-04 | 3.41E-05 | 4.95E-05 | 3.74E-05 | 3.74E-05 | 2.06E-05 | 1.85E-06 | 2.68E-05 | 1.66E-05 | 1.66E-05 | 8.24E-06 |
| 1244 | 259090.66 | 4084525.26 | 0.000022089 | 3.19E-04 | 2.35E-04 | 2.35E-04 | 1.31E-04 | 3.35E-06 | 4.87E-05 | 3.68E-05 | 3.68E-05 | 2.02E-05 | 1.82E-06 | 2.63E-05 | 1.64E-06 | 1.64E-05 | 8.10E-05 |
| 1245 | 259100.52 | 4084547.06 | 0.000021622 | 3.13E-04 | 2.31E-04 | 2.31E-04 | 1.29E-04 | 3.28E-06 | 4.76E-05 | 3.60E-05 | 3.60E-05 | 1.98E-06 | 1.78E-06 | 2.58E-06 | 1.60E-05 | 1.60E-05 | 7.93E-06 |
| 1246 | 259110.38 | 4084568.86 | 0.000021081 | 3.05E-04 | 2.25E-04 | 2.15E-04 | 1.26E-04 | 3.20E-06 | 4.66E-06 | 3.51E-05 | 3.51E-06 | 1.93E-06 | 1.74E-06 | 2.51E-06 | 1.56E-06 | 1.56E-05 | 7.73E-05 |
| 1247 | 259120.24 | 4084590.65 | 0.000020481 | 2.96E-04 | 2.18E-04 | 2.18E-04 | 1.22E-04 | 3.11E-06 | 4.51E-05 | 3.41E-05 | 3.41E-06 | 1.87E-05 | 1.69E-06 | 2.44E-05 | 1.52E-05 | 1.52E-05 | 7.51E-05 |
| 1248 | 259130.1 | 4084612.45 | 0.000019829 | 2.87E-04 | 2.11E-04 | 2.11E-04 | 1.18E-04 | 3.01E-06 | 4.37E-06 | 3.30E-05 | 3.30E-05 | 1.81E-05 | 1.63E-06 | 2.36E-05 | 1.47E-05 | 1.47E-05 | 7.27E-05 |
| 1249 | 259139.97 | 4084634.25 | 0.000019136 | 2.77E-04 | 2.04E-04 | 2.04E-04 | 1.14E-04 | 2.90E-06 | 4.22E-05 | 3.19E-05 | 3.19E-05 | 1.75E-05 | 1.58E-06 | 2.28E-05 | 1.42E-05 | 1.42E-05 | 7.01E-06 |
| 1250 | 259149.83 | 4084656.04 | 0.000018413 | 2.66E-04 | 1.96E-04 | 1.96E-04 | 1.09E-04 | 2.79E-06 | 4.06E-06 | 3.06E-06 | 3.06E-05 | 1.68E-05 | 1.52E-05 | 2.20E-06 | 1.36E-05 | 1.36E-05 | 6.75E-06 |
| 1251 | 259159.69 | 4084677.84 | 0.000017696 | 2.56E-04 | 1.89E-04 | 1.89E-04 | 1.05E-04 | 2.69E-06 | 3.90E-06 | 2.95E-06 | 2.95E-05 | 1.62E-06 | 1.48E-06 | 2.11E-05 | 1.31E-06 | 1.31E-05 | 6.49E-06 |
| 1252 | 259169.55 | 4084699.64 | 0.000016936 | 2.45E-04 | 1.81E-04 | 1.81E-04 | 1.01E-04 | 2.57E-06 | 3.73E-05 | 2.82E-05 | 2.82E-05 | 1.55E-05 | 1.40E-06 | 2.02E-05 | 1.25E-05 | 1.25E-05 | 6.21E-06 |
| 1253 | 259179.41 | 4084721.43 | 0.00001613 | 2.33E-04 | 1.72E-04 | 1.72E-04 | 9.59E-05 | 2.45E-05 | 3.55E-05 | 2.68E-05 | 2.68E-05 | 1.48E-05 | 1.33E-06 | 1.92E-06 | 1.19E-05 | 1.19E-05 | 5.91E-06 |
| 1254 | 259189.27 | 4084743.23 | 0.000015358 | 2.22E-04 | 1.64E-04 | 1.64E-04 | 9.13E-05 | 2.33E-06 | 3.38E-06 | 2.56E-05 | 2.56E-05 | 1.41E-05 | 1.27E-06 | 1.83E-05 | 1.14E-05 | 1.14E-05 | 5.63E-06 |
| 1255 | 259199.13 | 4084765.03 | 0.000014614 | 2.11E-04 | 1.66E-04 | 1.56E-04 | 8.69E-05 | 2.22E-06 | 3.22E-06 | 2.43E-05 | 2.43E-05 | 1.34E-05 | 1.20E-06 | 1.74E-05 | 1.08E-05 | 1.08E-05 | 5.36E-06 |
| 1256 | 259208.99 | 4084786.82 | 0.000013846 | 2.00E-04 | 1.48E-04 | 1.48E-04 | 8.23E-05 | 2.10E-06 | 3.05E-06 | 2.30E-05 | 2.30E-05 | 1.27E-06 | 1.14E-06 | 1.65E-05 | 1.03E-06 | 1.03E-05 | 5.08E-06 |
| 1257 | 259218.85 | 4084808.62 | 0.000013145 | 1.90E-04 | 1.40E-04 | 1.40E-04 | 7.81E-05 | 2.00E-06 | 2.90E-06 | 2.19E-05 | 2.19E-06 | 1.20E-06 | 1.08E-06 | 1.57E-05 | 9.73E-06 | 9.73E-06 | 4.82E-06 |
| 1258 | 259228.71 | 4084830.42 | 0.000012489 | 1.81E-04 | 1.33E-04 | 1.33E-04 | 7.42E-05 | 1.90E-06 | 2.75E-05 | 2.08E-06 | 2.08E-05 | 1.14E-06 | 1.03E-06 | 1.49E-05 | 9.25E-06 | 9.25E-06 | 4.38E-06 |
| 1259 | 259238.58 | 4084852.21 | 0.000011872 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.06E-05 | 1.80E-06 | 2.62E-06 | 1.98E-05 | 1.98E-05 | 1.09E-05 | 9.79E-07 | 1.42E-05 | 8.79E-06 | 8.79E-06 | 4.35E-06 |
| 1260 | 259248.44 | 4084874.01 | 0.000011291 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 6.71E-06 | 1.71E-05 | 2.49E-06 | 1.88E-05 | 1.88E-05 | 1.03E-05 | 9.31E-07 | 1.35E-06 | 8.36E-06 | 6.36E-06 | 4.14E-06 |
| 1261 | 258221.71 | 4084022.82 | 6.1125E-06 | 8.84E-05 | 6.52E-05 | 6.52E-05 | 3.63E-05 | 9.28E-07 | 1.35E-05 | 1.02E-05 | 1.02E-05 | 5.59E-06 | 5.04E-07 | 7.29E-06 | 4.53E-06 | 4.53E-06 | 2.24E-06 |
| 1262 | 258297.36 | 4084023.82 | 5.8789E-06 | 8.50E-05 | 6.27E-06 | 6.27E-06 | 3.49E-05 | 8.92E-07 | 1.30E-05 | 9.79E-06 | 9.79E-06 | 5.38E-06 | 4.85E-07 | 7.01E-06 | 4.35E-06 | 4.35E-06 | 2.16E-06 |
| 1263 | 258273.05 | 4084024.82 | 5.6576E-06 | 8.18E-05 | 6.03E-05 | 6.03E-05 | 3.36E-05 | 6.59E-07 | 1.25E-05 | 9.42E-06 | 9.42E-06 | 5.18E-06 | 4.66E-07 | 6.75E-05 | 4.19E-06 | 4.19E-06 | 2.07E-06 |
| 1264 | 258248.72 | 4084025.82 | 5.4424E-06 | 7.87E-05 | 5.80E-05 | 5.80E-05 | 3.23E-06 | 8.26E-07 | 1.20E-05 | 9.06E-06 | 9.06E-06 | 4.98E-06 | 4.49E-07 | 6.49E-06 | 4.03E-06 | 4.03E-06 | 2.00E-06 |
| 1265 | 258224.38 | 4084026.82 | 5.2354E-06 | 7.57E-05 | 6.58E-06 | 5.58E-05 | 3.11E-05 | 7.95E-07 | 1.15E-05 | 8.71E-06 | 8.71E-06 | 4.79E-06 | 4.32E-07 | 6.24E-06 | 3.88E-06 | 3.88E-06 | 1.92E-06 |
| 1266 | 258200.06 | 4084027.82 | 5.0345E-06 | 7.28E-05 | 5.37E-06 | 5.37E-05 | 2.99E-05 | 7.84E-07 | 1.11E-05 | 6.38E-06 | 8.38E-06 | 4.61E-06 | 4.15E-07 | 6.00E-06 | 3.73E-06 | 3.73E-06 | 1.85E-06 |
| 1267 | 258175.72 | 4084028.82 | 0.000004842 | 7.00E-05 | 5.16E-06 | 5.16E-05 | 2.85E-06 | 7.35E-07 | 1.07E-05 | 8.06E-06 | 8.06E-06 | 4.43E-06 | 3.99E-07 | 5.77E-06 | 3.59E-06 | 3.59E-06 | 1.77E-05 |
| 1268 | 258151.39 | 4084029.82 | 4.6535E-05 | 6.73E-05 | 4.96E-05 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1050 | 257681.18 | 4084449.49 | 6.2784E-06 | 9.08E-05 | 6.69E-05 | 6.69E-05 | 3.73E-06 | 9.53E-07 | 1.38E-05 | 1.05E-06 | 1.05E-05 | 5.75E-05 | 5.18E-07 | 7.49E-06 | 4.65E-05 | 4.65E-06 | 2.30E-05 |
| 1051 | 257656.85 | 4084450.49 | 6.0038E-06 | 8.68E-05 | 6.40E-05 | 6.40E-05 | 3.57E-05 | 9.11E-07 | 1.32E-05 | 9.99E-06 | 9.99E-05 | 5.49E-05 | 4.95E-07 | 7.16E-05 | 4.45E-05 | 4.45E-06 | 2.20E-06 |
| 1052 | 257632.52 | 4084451.49 | 5.7539E-05 | 8.32E-05 | 6.13E-05 | 6.13E-05 | 3.42E-05 | 8.73E-07 | 1.27E-05 | 9.58E-06 | 9.58E-05 | 5.27E-05 | 4.74E-07 | 6.86E-05 | 4.26E-05 | 4.26E-06 | 2.11E-06 |
| 1053 | 257608.19 | 4084452.49 | 5.5264E-05 | 7.99E-05 | 5.89E-05 | 5.89E-05 | 3.28E-05 | 8.39E-07 | 1.22E-05 | 9.20E-06 | 9.20E-05 | 5.06E-05 | 4.56E-07 | 6.59E-06 | 4.09E-06 | 4.09E-05 | 2.03E-05 |
| 1054 | 257583.86 | 4084453.49 | 5.3154E-06 | 7.69E-05 | 5.67E-05 | 5.67E-05 | 3.16E-06 | 8.07E-07 | 1.17E-05 | 8.85E-06 | 8.85E-06 | 4.86E-06 | 4.38E-07 | 6.34E-06 | 3.94E-06 | 3.94E-06 | 1.95E-06 |
| 1055 | 257559.52 | 4084454.49 | 5.1186E-05 | 7.40E-05 | 5.46E-05 | 5.46E-05 | 3.04E-06 | 7.77E-07 | 1.13E-05 | 8.52E-06 | 8.52E-06 | 4.68E-06 | 4.22E-07 | 6.10E-06 | 3.79E-06 | 3.79E-06 | 1.88E-06 |
| 1056 | 257535.19 | 4084455.49 | 4.9342E-06 | 7.14E-05 | 5.26E-05 | 5.26E-05 | 2.93E-05 | 7.49E-07 | 1.09E-05 | 8.21E-06 | 8.21E-05 | 4.52E-05 | 4.07E-07 | 5.88E-05 | 3.65E-05 | 3.65E-06 | 1.81E-05 |
| 1057 | 258356.86 | 4084331.02 | 0.000018788 | 2.72E-04 | 2.00E-04 | 2.00E-04 | 1.12E-04 | 2.85E-06 | 4.14E-05 | 3.13E-05 | 3.13E-05 | 1.72E-05 | 1.55E-06 | 2.24E-05 | 1.39E-05 | 1.39E-05 | 6.89E-05 |
| 1058 | 258379.69 | 4084339.47 | 0.000020089 | 2.91E-04 | 2.14E-04 | 2.14E-04 | 1.19E-04 | 3.05E-06 | 4.43E-06 | 3.34E-05 | 3.34E-06 | 1.84E-05 | 1.66E-06 | 2.40E-06 | 1.49E-05 | 1.49E-06 | 7.36E-05 |
| 1059 | 258402.52 | 4084347.92 | 0.000021419 | 3.10E-04 | 2.28E-04 | 2.28E-04 | 1.27E-04 | 3.25E-06 | 4.72E-05 | 3.57E-06 | 3.57E-05 | 1.96E-05 | 1.77E-06 | 2.55E-05 | 1.59E-05 | 1.59E-05 | 7.85E-05 |
| 1060 | 258425.35 | 4084356.37 | 0.000022765 | 3.29E-04 | 2.43E-04 | 2.43E-04 | 1.35E-04 | 3.46E-05 | 5.02E-05 | 3.79E-05 | 3.79E-05 | 2.08E-05 | 1.88E-05 | 2.71E-05 | 1.69E-05 | 1.69E-05 | 6.35E-06 |
| 1061 | 258448.18 | 4084364.83 | 0.00002412 | 3.49E-04 | 2.57E-04 | 2.57E-04 | 1.43E-04 | 3.66E-05 | 5.31E-05 | 4.01E-05 | 4.01E-05 | 2.21E-05 | 1.99E-05 | 2.88E-05 | 1.79E-05 | 1.79E-05 | 8.84E-06 |
| 1062 | 258471.01 | 4084373.28 | 0.000025474 | 3.68E-04 | 2.72E-04 | 2.72E-04 | 1.51E-04 | 3.87E-05 | 5.61E-05 | 4.24E-05 | 4.24E-05 | 2.33E-05 | 2.10E-05 | 3.04E-05 | 1.89E-05 | 1.89E-05 | 9.34E-05 |
| 1063 | 258493.84 | 4084381.73 | 0.000026814 | 3.88E-04 | 2.86E-04 | 2.86E-04 | 1.59E-04 | 4.07E-06 | 5.91E-05 | 4.46E-06 | 4.46E-05 | 2.45E-05 | 2.21E-06 | 3.20E-05 | 1.99E-05 | 1.99E-05 | 9.83E-05 |
| 1064 | 258516.66 | 4084390.18 | 0.000028132 | 4.07E-04 | 3.00E-04 | 3.00E-04 | 1.67E-04 | 4.27E-05 | 6.20E-05 | 4.68E-05 | 4.68E-05 | 2.57E-05 | 2.32E-06 | 3.35E-05 | 2.08E-05 | 2.08E-05 | 1.03E-05 |
| 1065 | 258539.49 | 4084398.63 | 0.000029413 | 4.25E-04 | 3.14E-04 | 3.14E-04 | 1.75E-04 | 4.46E-06 | 6.48E-05 | 4.90E-05 | 4.90E-05 | 2.69E-05 | 2.42E-05 | 3.51E-06 | 2.18E-05 | 2.18E-05 | 1.08E-05 |
| 1066 | 258562.32 | 4084407.09 | 0.000030642 | 4.43E-04 | 3.27E-04 | 3.27E-04 | 1.82E-04 | 4.65E-06 | 6.75E-05 | 5.10E-05 | 5.10E-05 | 2.80E-05 | 2.53E-05 | 3.65E-05 | 2.27E-05 | 2.27E-05 | 1.12E-05 |
| 1067 | 258585.15 | 4084415.54 | 0.000021804 | 4.60E-04 | 3.39E-04 | 3.39E-04 | 1.89E-04 | 4.83E-05 | 7.01E-05 | 5.79E-05 | 5.29E-05 | 2.91E-05 | 2.62E-05 | 3.79E-05 | 2.36E-05 | 2.36E-05 | 1.17E-05 |
| 1068 | 258607.98 | 4084413.99 | 0.000032878 | 4.76E-04 | 3.50E-04 | 3.50E-04 | 1.95E-04 | 4.99E-05 | 7.24E-05 | 5.47E-05 | 5.47E-05 | 3.01E-05 | 2.71E-06 | 3.92E-05 | 2.43E-05 | 2.43E-05 | 1.21E-06 |
| 1069 | 258630.81 | 4084432.44 | 0.000033849 | 4.90E-04 | 3.61E-04 | 3.61E-04 | 2.01E-04 | 5.14E-06 | 7.46E-05 | 5.63E-05 | 5.63E-05 | 3.10E-05 | 2.79E-05 | 4.04E-05 | 2.51E-05 | 2.51E-06 | 1.24E-05 |
| 1070 | 258653.64 | 4084440.9 | 0.000034703 | 5.02E-04 | 3.70E-04 | 3.70E-04 | 2.06E-04 | 5.27E-06 | 7.65E-05 | 5.78E-05 | 5.78E-05 | 3.18E-05 | 2.86E-05 | 4.14E-05 | 2.57E-05 | 2.57E-05 | 1.27E-05 |
| 1071 | 258676.47 | 4084449.35 | 0.000035415 | 5.12E-04 | 3.78E-04 | 3.78E-04 | 2.10E-04 | 5.37E-06 | 7.80E-05 | 5.89E-06 | 5.89E-06 | 3.24E-05 | 2.92E-05 | 4.22E-05 | 2.62E-05 | 2.62E-05 | 1.30E-05 |
| 1072 | 258699.29 | 4084457.8 | 0.000025955 | 5.20E-04 | 3.83E-04 | 3.83E-04 | 2.14E-04 | 5.46E-06 | 7.92E-05 | 5.98E-05 | 5.98E-05 | 3.29E-05 | 2.96E-06 | 4.29E-06 | 2.66E-05 | 2.66E-05 | 1.32E-05 |
| 1073 | 258722.12 | 4084466.25 | 0.000036253 | 5.24E-04 | 3.86E-04 | 3.86E-04 | 2.15E-04 | 5.50E-05 | 7.99E-05 | 6.03E-05 | 6.03E-05 | 3.32E-05 | 2.99E-06 | 4.32E-05 | 2.68E-05 | 2.68E-05 | 1.33E-05 |
| 1074 | 258744.95 | 4084474.7 | 0.000036361 | 5.26E-04 | 3.88E-04 | 3.88E-04 | 2.16E-04 | 5.52E-05 | 8.01E-05 | 6.05E-05 | 6.05E-05 | 3.33E-05 | 3.00E-05 | 4.34E-05 | 2.69E-05 | 2.69E-05 | 1.33E-05 |
| 1075 | 258777.81 | 4084505.33 | 0.000037597 | 5.44E-04 | 4.01E-04 | 4.01E-04 | 2.23E-04 | 5.71E-05 | 8.28E-05 | 6.26E-05 | 6.26E-05 | 3.44E-05 | 3.10E-06 | 4.48E-05 | 2.78E-05 | 2.78E-05 | 1.38E-05 |
| 1076 | 258787.85 | 4084527.51 | 0.000038691 | 5.60E-04 | 4.32E-04 | 4.12E-04 | 2.30E-04 | 5.87E-05 | 8.53E-05 | 6.44E-05 | 6.44E-05 | 3.54E-05 | 3.19E-05 | 4.81E-05 | 2.87E-05 | 2.87E-06 | 1.42E-05 |
| 1077 | 258797.88 | 4084549.69 | 0.000039548 | 5.72E-04 | 4.22E-04 | 4.22E-04 | 2.35E-04 | 6.00E-06 | 8.71E-05 | 6.58E-05 | 6.56E-05 | 3.62E-05 | 3.26E-06 | 4.71E-05 | 2.93E-05 | 2.93E-05 | 1.45E-05 |
| 1078 | 258807.92 | 4084571.87 | 0.000040136 | 5.81E-04 | 4.28E-04 | 4.28E-04 | 2.39E-04 | 6.09E-05 | 8.84E-05 | 6.68E-05 | 6.68E-05 | 3.67E-05 | 3.31E-05 | 4.79E-05 | 2.97E-05 | 2.97E-05 | 1.47E-05 |
| 1079 | 258817.95 | 4084594.05 | 0.000040427 | 5.85E-04 | 4.31E-04 | 4.31E-04 | 2.40E-04 | 6.14E-05 | 8.91E-05 | 6.73E-05 | 6.73E-05 | 3.70E-05 | 3.33E-05 | 4.82E-05 | 2.99E-05 | 2.99E-05 | 1.48E-05 |
| 1080 | 258827.98 | 4084616.23 | 0.000040398 | 5.84E-04 | 4.31E-04 | 4.31E-04 | 2.40E-04 | 6.13E-05 | 8.90E-05 | 6.72E-05 | 6.72E-05 | 3.70E-05 | 3.33E-06 | 4.82E-05 | 2.99E-05 | 2.99E-05 | 1.48E-05 |
| 1081 | 258838.02 | 4084638.41 | 0.000040039 | 5.79E-04 | 4.27E-04 | 4.27E-04 | 2.36E-04 | 6.08E-06 | 8.82E-05 | 8.66E-05 | 6.66E-05 | 3.66E-05 | 3.30E-06 | 4.77E-05 | 2.97E-05 | 2.97E-05 | 1.47E-05 |
| 1082 | 258848.05 | 4084660.59 | 0.000039351 | 5.69E-04 | 4.19E-04 | 4.19E-04 | 2.34E-04 | 5.97E-05 | 6.67E-05 | 6.55E-05 | 6.55E-05 | 3.60E-05 | 3.24E-06 | 4.69E-06 | 2.91E-05 | 2.91E-06 | 1.44E-05 |
| 1083 | 258858.09 | 4084682.77 | 0.000038349 | 5.55E-04 | 4.09E-04 | 4.09E-04 | 2.28E-04 | 5.62E-06 | 8.45E-05 | 6.38E-05 | 6.38E-05 | 3.51E-05 | 3.16E-06 | 4.57E-05 | 2.84E-05 | 2.84E-05 | 1.41E-06 |
| 1084 | 258868.12 | 4084704.95 | 0.000037064 | 5.36E-04 | 3.95E-04 | 3.95E-04 | 2.20E-04 | 5.63E-05 | 8.17E-05 | 6.17E-05 | 6.17E-05 | 3.39E-05 | 3.06E-06 | 4.42E-05 | 2.74E-05 | 2.74E-05 | 1.36E-06 |
| 1085 | 258878.15 | 4084727.12 | 0.000035542 | 5.14E-04 | 3.79E-04 | 3.79E-04 | 2.11E-04 | 5.39E-05 | 7.83E-05 | 5.92E-05 | 5.92E-05 | 3.25E-05 | 2.93E-05 | 4.24E-05 | 2.63E-05 | 2.63E-05 | 1.30E-05 |
| 1086 | 258888.19 | 4084749.3 | 0.000033833 | 4.69E-04 | 3.61E-04 | 3.61E-04 | 2.01E-04 | 5.13E-05 | 7.45E-05 | 5.63E-05 | 5.63E-05 | 3.10E-05 | 2.79E-05 | 4.03E-05 | 2.51E-05 | 2.51E-05 | 1.24E-05 |
| 1087 | 258898.22 | 4084771.46 | 0.00003199 | 4.63E-04 | 3.41E-04 | 3.41E-04 | 1.90E-04 | 4.86E-05 | 7.05E-05 | 5.32E-05 | 5.32E-05 | 2.93E-05 | 2.64E-06 | 3.81E-05 | 2.37E-05 | 2.37E-05 | 1.17E-05 |
| 1088 | 258908.26 | 4084793.66 | 0.000030075 | 4.35E-04 | 3.21E-04 | 3.21E-04 | 1.79E-04 | 4.56E-06 | 6.63E-05 | 5.01E-05 | 5.01E-05 | 2.75E-05 | 2.48E-05 | 3.59E-05 | 2.23E-05 | 2.23E-05 | 1.10E-05 |
| 1089 | 258918.29 | 4084815.84 | 0.000028153 | 4.07E-04 | 3.00E-04 | 3.00E-04 | 1.67E-04 | 4.27E-05 | 6.20E-05 | 4.69E-06 | 4.69E-05 | 2.58E-05 | 2.32E-06 | 3.36E-06 | 2.08E-05 | 2.08E-05 | 1.03E-05 |
| 1090 | 258928.32 | 4084838.02 | 0.000026267 | 3.80E-04 | 2.80E-04 | 2.80E-04 | 1.56E-04 | 3.99E-05 | 5.79E-05 | 4.37E-05 | 4.37E-05 | 2.40E-05 | 2.17E-06 | 3.13E-05 | 1.95E-05 | 1.95E-05 | 9.63E-05 |
| 1091 | 258938.36 | 4084860.2 | 0.000024452 | 3.54E-04 | 2.61E-04 | 2.61E-04 | 1.45E-04 | 3.71E-06 | 5.39E-05 | 4.07E-05 | 4.07E-05 | 2.24E-05 | 2.02E-06 | 2.92E-05 | 1.81E-05 | 1.81E-06 | 6.96E-05 |
| 1092 | 258948.39 | 4084882.38 | 0.00002272 | 3.29E-04 | 2.42E-04 | 2.42E-04 | 1.35E-04 | 3.45E-06 | 5.01E-05 | 3.78E-05 | 3.78E-05 | 2.03E-05 | 1.87E-06 | 2.71E-05 | 1.68E-05 | 1.68E-05 | 6.33E-06 |
| 1093 | 258334.03 | 4084322.57 | 0.000017S2 | 2.53E-04 | 1.87E-04 | 1.87E-04 | 1.04E-04 | 2.66E-05 | 3.86E-05 | 2.92E-05 | 2.92E-05 | 1.60E-05 | 1.44E-05 | 2.09E-05 | 1.30E-05 | 1.30E-05 | 6.42E-05 |
| 1094 | 258309.7 | 4084323.57 | 0.000016878 | 2.44E-04 | 1.80E-04 | 1.80E-04 | 1.00E-04 | 2.56E-05 | 3.72E-05 | 2.81E-05 | 2.81E-05 | 1.54E-05 | 1.39E-05 | 2.01E-05 | 1.25E-05 | 1.25E-05 | 6.19E-05 |
| 1095 | 258285.37 | 4084324.57 | 0.000016223 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.64E-05 | 2.46E-05 | 3.57E-05 | 2.70E-05 | 2.70E-05 | 1.48E-05 | 1.34E-06 | 1.93E-05 | 1.20E-05 | 1.20E-05 | 5.95E-05 |
| 1096 | 258261.04 | 4084325.57 | 0.000015557 | 2.25E-04 | 1.68E-04 | 1.66E-04 | 9.25E-05 | 2.36E-05 | 3.43E-05 | 2.59E-06 | 2.59E-05 | 1.42E-05 | 1.28E-06 | 1.85E-05 | 1.15E-05 | 1.16E-05 | 5.70E-06 |
| 1097 | 258236.71 | 4084326.57 | 0.000014881 | 2.15E-04 | 1.59E-04 | 1.59E-04 | 8.84E-06 | 2.26E-06 | 3.28E-05 | 2.48E-05 | 2.48E-05 | 1.36E-05 | 1.23E-06 | 1.77E-05 | 1.10E-05 | 1.10E-05 | 5.45E-06 |
| 1098 | 258212.38 | 4084327.57 | 0.000014198 | 2.05E-04 | 1.51E-04 | 1.51E-04 | 8.44E-05 | 2.15E-05 | 3.13E-05 | 2.36E-05 | 2.36E-05 | 1.30E-05 | 1.17E-05 | 1.69E-05 | 1.05E-05 | 1.05E-05 | 5.20E-05 |
| 1099 | 258188.04 | 4084328.57 | 0.000013516 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.03E-05 | 2.05E-05 | 2.98E-05 | 2.25E-05 | 2.25E-05 | 1.24E-05 | 1.11E-06 | 1.61E-05 | 1.00E-05 | 1.00E-05 | 4.95E-05 |
| 1100 | 258163.71 | 4084329.57 | 0.000012842 | 1.86E-04 | 1.37E-04 | 1.37E-04 | 7.63E-05 | 1.95E-05 | 2.83E-05 | 2.14E-05 | 2.14E-05 | 1.18E-05 | 1.06E-06 | 1.53E-05 | 9.51E-06 | 9.51E-06 | 4.71E-05 |
| 1101 | 258139.38 | 4084330.57 | 0.000012178 | 1.76E-04 | 1.50E-04 | 1.30E-04 | 7.24E-06 | 1.85E-06 | 2.68E-05 | 2.03E-05 | 2.03E-05 | 1.11E-05 | 1.00E-06 | 1.45E-05 | 9.02E-06 | 9.02E-06 | 4.46E-06 |
| 1102 | 258115.05 | 4084331.57 | 0.000011532 | 1.67E-04 | 1.13E-04 | 1.13E-04 | 6.85E-05 | 1.75E-06 | 2.54E-05 | 1.92E-05 | 1.92E-05 | 1.06E-05 | 9.51E-07 | 1.37E-05 | 8.54E-06 | 8.54E-05 | 4.13E-06 |
| 1103 | 258090.72 | 4084332.57 | 0.000010909 | 1.58E-04 | 1.16E-04 | 1.16E-04 | 6.48E-05 | 1.66E-05 | 2.40E-05 | 1.82E-05 | 1.82E-05 | 9.98E-06 | 8.99E-07 | 1.30E-05 | 6.08E-05 | 6.08E-06 | 4.00E-06 |
| 1104 | 258066.38 | 4084333.57 | 0.000010313 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.13E-05 | 1.57E-05 | 2.27E-05 | 1.72E-05 | 1.72E-05 | 9.44E-05 | 8.50E-07 | 1.23E-05 | 7.64E-05 | 7.84E-05 | 3.78E-06 |
| 1105 | 258042.05 | 4084334.57 | 9.7475E-05 | 1.41E-04 | 1.04E-04 | 1.04E-04 | 5.79E-05 | 1.48E-05 | 2.15E-05 | 1.62E-05 | 1.62E-05 | 8.92E-06 | 8.03E-07 | 1.16E-05 | 7.22E-05 | 7.22E-05 | 3.57E-06 |
| 1106 | 258017.72 | 4084335.57 | 9.2148E-06 | 1.33E-04 | 9.82E-05 | 9.82E-05 | 5.48E-05 | 1.40E-06 | 2.03E-05 | 1.53E-05 | 1.53E-05 | 8.43E-06 | 7.60E-07 | 1.10E-05 | 6.82E-05 | 6.82E-06 | 3.38E-06 |
| 1107 | 257993.39 | 4084336.57 | 8.7148E-05 | 1.26E-04 | 9.29E-05 | 9.29E-05 | 5.18E-05 | 1.32E-06 | 1.92E-05 | 1.45E-05 | 1.45E-05 | 7.97E-05 | 7.18E-07 | 1.04E-05 | 6.45E-06 | 6.45E-05 | 3.19E-05 |
| 1108 | 257969.06 | 4084337.57 | 8.2476E-05 | 1.19E-04 | 8.79E-05 | 8.79E-05 | 4.90E-05 | 1.25E-05 | 1.82E-05 | 1.37E-05 | 1.37E-05 | 7.55E-06 | 6.80E-07 | 9.83E-06 | 6.11E-06 | 6.11E-06 | 3.02E-05 |
| 1109 | 257944.73 | 4084338.57 | 7.8111E-06 | 1.13E-04 | 8.33E-05 | 8.33E-05 | 4.64E-05 | 1.19E-06 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.15E-06 | 6.44E-07 | 9.31E-06 | 5.78E-06 | 5.78E-06 | 2.66E-05 |
| 1110 | 257920.39 | 4084339.57 | 7.4054E-05 | 1.07E-04 | 7.89E-05 | 7.89E-05 | 4.40E-05 | 1.12E-06 | 1.63E-05 | 1.23E-05 | 1.23E-05 | 6.78E-06 | 6.10E-07 | 8.82E-06 | 5.48E-06 | 5.48E-06 | 2.71E-06 |
| 1111 | 257896.06 | 4084340.57 | 7.0284E-06 | 1.02E-04 | 7.49E-06 | 7.49E-05 | 4.18E-06 | 1.07E-06 | 1.55E-05 | 1.17E-05 | 1.17E-05 | 6.43E-05 | 5.79E-07 | 8.38E-06 | 5.20E-06 | 5.20E-06 | 2.58E-06 |
| 1112 | 257871.73 | 4084341.57 | 0.000006678 | 9.66E-06 | 7.12E-05 | 7.12E-05 | 3.97E-05 | 1.01E-06 | 1.47E-05 | 1.11E-05 | 1.11E-05 | 6.11E-05 | 5.50E-07 | 7.96E-06 | 4.95E-05 | 4.95E-05 | 2.45E-06 |
| 1113 | 257847.4 | 4084342.57 | 6.3501E-06 | 9.18E-05 | 6.77E-05 | 6.77E-05 | 3.77E-05 | 9.64E-07 | 1.40E-05 | 1.06E-05 | 1.06E-05 | 5.81E-05 | 5.23E-07 | 7.57E-05 | 4.70E-05 | 4.70E-05 | 2.33E-05 |
| 1114 | 257813.07 | 4084343.57 | 6.0469E-06 | 8.75E-05 | 6.45E-05 | 6.45E-05 | 3.59E-05 | 9.18E-07 | 1.33E-05 | 1.01E-05 | 1.01E-05 | 5.53E-06 | 4.98E-07 | 7.21E-05 | 4.48E-05 | 4.48E-06 | 2.22E-05 |
| 1115 | 257798.73 | 4084344.57 | 5.7662E-05 | 8.34E-05 | 6.15E-05 | 6.15E-05 | 3.43E-05 | 8.75E-07 | 1.27E-06 | 9.60E-06 | 9.60E-06 | 5.28E-06 | 4.75E-07 | 6.87E-06 | 4.27E-06 | 4.27E-06 | 2.11E-05 |
| 1116 | 257774.4 | 4084345.57 | 5.5039E-06 | 7.96E-05 | 5.87E-05 | 5.87E-05 | 3.27E-06 | 8.35E-07 | 1.21E-05 | 9.16E-06 | 9.16E-06 | 5.04E-06 | 4.64E-07 | 6.56E-06 | 4.08E-06 | 4.08E-06 | 2.02E-06 |
| 1117 | 257750.07 | 4084346.57 | 5.2641E-06 | 7.61E-05 | 5.61E-05 | 5.61E-05 | 3.13E-06 | 7.99E-07 | 1.16E-05 | 8.76E-06 | 8.76E-06 | 4.82E-06 | 4.34E-07 | 6.28E-05 | 3.90E-05 | 3.90E-05 | 1.93E-05 |
| 1118 | 257725.74 | 4084347.57 | 5.0428E-06 | 7.79E-05 | 5.38E-05 | 5.38E-05 | 3.00E-05 | 7.65E-07 | 1.11E-05 | 8.39E-05 | 8.39E-05 | 4.61E-06 | 4.16E-07 | 6.01E-05 | 3.73E-05 | 3.73E-05 | 1.85E-06 |
| 1119 | 257701.41 | 4084348.57 | 0.000004842 | 7.00E-05 | 5.16E-05 | 5.16E-05 | 2.88E-05 | 7.35E-07 | 1.07E-05 | 8.06E-06 | 8.06E-06 | 4.43E-05 | 3.99E-07 | 5.77E-05 | 3.59E-05 | 3.59E-05 | 1.77E-05 |
| 1120 | 257677.08 | 4084349.57 | 4.6576E-06 | 6.74E-05 | 4.97E-05 | 4.97E-05 | 2.77E-05 | 7.07E-07 | 1.03E-05 | 7.75E-06 | 7.75E-06 | 4.26E-06 | 3.84E-07 | 5.55E-06 | 3.45E-05 | 3.45E-05 | 1.71E-05 |
| 1121 | 257652.74 | 4084350.57 | 4.4875E-05 | 6.49E-05 | 4.78E-05 | 4.78E-05 | 2.67E-05 | 6.81E-07 | 9.89E-06 | 7.47E-06 | 7.47E-05 | 4.11E-06 | 3.70E-07 | 5.35E-06 | 3.32E-06 | 3.32E-06 | 1.64E-05 |
| 1122 | 257628.41 | 4084351.58 | 4.3338E-05 | 6.27E-05 | 4.62E-06 | 4.62E-05 | 2.58E-05 | 6.58E-07 | 9.55E-06 | 7.21E-06 | 7.21E-06 | 3.97E-06 | 3.57E-07 | 5.17E-06 | 3.21E-05 | 3.21E-05 | 1.59E-05 |
| 1123 | 257604.08 | 4084352.58 | 4.1924E-06 | 6.06E-05 | 4.47E-05 | 4.47E-05 | 2.49E-06 | 6.36E-07 | 9.24E-05 | 6.98E-05 | 6.98E-05 | 3.84E-05 | 3.46E-07 | 5.00E-06 | 3.10E-05 | 3.10E-05 | 1.54E-06 |
| 1124 | 257579.75 | 4084353.58 | 4.0613E-05 | 5.87E-05 | 4.33E-05 | 4.33E-05 | 2.41E-05 | 6.16E-07 | 8.95E-05 | 6.76E-05 | 6.76E-06 | 3.72E-05 | 3.35E-07 | 4.84E-05 | 3.01E-05 | 3.01E-05 | 1.49E-06 |
| 1125 | 257555.42 | 4084354.58 | 3.9384E-06 | 5.70E-05 | 4.20E-05 | 4.20E-05 | 2.34E-05 | 5.98E-07 | 8.68E-06 | 6.56E-06 | 6.56E-06 | 3.60E-05 | 3.25E-07 | 4.70E-05 | 2.92E-05 | 2.92E-05 | 1.44E-05 |
| 1126 | 257531.08 | 4084355.58 | 3.8257E-05 | 5.53E-05 | 4.08E-05 | 4.08E-05 | 2.27E-05 | 5.81E-07 | 8.43E-06 | 6.37E-06 | 6.37E-06 | 3.50E-05 | 3.15E-07 | 4.56E-05 | 2.83E-06 | 2.83E-05 | 1.40E-05 |
| 1127 | 258351.93 | 4084230.8 | 0.000012731 | 1.84E-04 | 1.36E-04 | 1.36E-04 | 7.57E-05 | 1.93E-05 | 2.81E-05 | 2.12E-05 | 2.12E-05 | 1.17E-05 | 1.05E-06 | 1.52E-05 | 9.43E-06 | 9.43E-06 | 4.67E-06 |
| 1128 | 258373.93 | 4084238.94 | 0.000013614 | 1.97E-04 | 1.45E-04 | 1.45E-04 | 8.09E-05 | 2.07E-06 | 3.00E-05 | 2.27E-05 | 2.27E-05 | 1.25E-05 | 1.12E-05 | 1.62E-05 | 1.01E-06 | 1.01E-05 | 4.99E-06 |
| 1129 | 258395.93 | 4084247.09 | 0.000014532 | 2.10E-04 | 1.55E-04 | 1.55E-04 | 8.64E-05 | 2.21E-06 | 3.20E-05 | 2.42E-05 | 2.42E-05 | 1.33E-05 | 1.20E-06 | 1.73E-05 | 1.08E-05 | 1.08E-06 | 5.33E-06 |
| 1130 | 258417.93 | 4084255.23 | 0.000015481 | 2.24E-04 | 1.65E-04 | 1.65E-04 | 9.20E-05 | 2.35E-06 | 3.41E-05 | 2.56E-05 | 2.58E-05 | 1.42E-05 | 1.28E-06 | 1.85E-05 | 1.15E-05 | 1.15E-05 | 5.67E-05 |
| 1131 | 258439.93 | 4084263.38 | 0.000016454 | 2.38E-04 | 1.75E-04 | 1.75E-04 | 9.78E-05 | 2.50E-06 | 3.63E-05 | 2.74E-05 | 2.74E-05 | 1.51E-05 | 1.36E-06 | 1.96E-05 | 1.22E-05 | 1.22E-05 | 6.03E-06 |
| 1132 | 258461.94 | 4084271.53 | 0.000017446 | 2.52E-04 | 1.86E-04 | 1.86E-04 | 1.04E-04 | 2.65E-05 | 3.84E-05 | 2.90E-05 | 2.90E-05 | 1.60E-05 | 1.44E-06 | 2.08E-05 | 1.29E-05 | 1.29E-05 | 6.40E-05 |
| 1133 | 258483.94 | 4084279.67 | 0.000018446 | 2.67E-04 | 1.97E-04 | 1.97E-04 | 1.10E-04 | 2.80E-05 | 4.06E-05 | 3.07E-05 | 3.07E-05 | 1.69E-05 | 1.52E-05 | 2.20E-05 | 1.37E-05 | 1.37E-05 | 6.76E-05 |
| 1134 | 258505.94 | 4084287.82 | 0.000019454 | 2.81E-04 | 2.07E-04 | 2.07E-04 | 1.16E-04 | 2.95E-06 | 4.29E-06 | 3.24E-05 | 3.24E-06 | 1.78E-05 | 1.60E-06 | 2.32E-05 | 1.44E-05 | 1.44E-06 | 7.13E-06 |
| 1135 | 258527.94 | 4084295.96 | 0.000020458 | 2.96E-04 | 2.18E-04 | 2.18E-04 | 1.22E-04 | 3.10E-06 | 4.51E-05 | 3.41E-05 | 3.41E-05 | 1.87E-05 | 1.69E-06 | 2.44E-05 | 1.52E-05 | 1.52E-05 | 7.30E-06 |
| 1136 | 258549.94 | 4084304.11 | 0.000021456 | 3.10E-04 | 2.29E-04 | 2.29E-04 | 1.28E-04 | 3.26E-06 | 4.73E-05 | 3.57E-06 | 3.57E-05 | 1.96E-05 | 1.77E-05 | 2.56E-05 | 1.59E-05 | 1.59E-05 | 7.87E-06 |
| 1137 | 258571.94 | 4084312.25 | 0.000022433 | 3.24E-04 | 2.39E-04 | 2.39E-04 | 1.33E-04 | 3.40E-05 | 4.94E-05 | 3.73E-05 | 3.71E-05 | 2.05E-05 | 1.85E-05 | 2.67E-05 | 1.66E-05 | 1.66E-05 | 8.22E-06 |
| 1138 | 258593.95 | 4084320.4 | 0.00002339 | 3.38E-04 | 2.49E-04 | 2.49E-04 | 1.39E-04 | 3.55E-05 | 5.15E-05 | 3.89E-05 | 3.89E-05 | 2.14E-05 | 1.93E-05 | 2.79E-05 | 1.73E-05 | 1.73E-05 | 8.57E-05 |
| 1139 | 258615.95 | 4084328.55 | 0.00002431 | 3.52E-04 | 2.59E-04 | 2.59E-04 | 1.44E-04 | 3.69E-05 | 5.36E-05 | 4.05E-06 | 4.05E-05 | 2.22E-05 | 2.00E-06 | 2.90E-05 | 1.80E-05 | 1.80E-05 | 6.91E-05 |
| 1140 | 258637.95 | 4084336.69 | 0.000025187 | 3.64E-04 | 2.69E-04 | 2.69E-04 | 1.50E-04 | 3.82E-06 | 5.55E-05 | 4.19E-05 | 4.19E-05 | 2.30E-05 | 2.08E-05 | 3.00E-05 | 1.87E-06 | 1.87E-05 | 9.23E-06 |
| 1141 | 258639.95 | 4084344.84 | 0.000026015 | 3.76E-04 | 2.77E-04 | 2.77E-04 | 1.55E-04 | 3.95E-06 | 5.73E-05 | 4.33E-05 | 4.33E-05 | 2.38E-05 | 2.14E-05 | 3.10E-05 | 1.93E-05 | 1.93E-05 | 9.54E-06 |
| 1142 | 258681.95 | 4084352.98 | 0.000026782 | 3.87E-04 | 2.85E-04 | 2.86E-04 | 1.59E-04 | 4.06E-05 | 5.90E-05 | 4.46E-05 | 4.46E-05 | 2.45E-05 | 2.21E-05 | 3.19E-05 | 1.98E-05 | 1.98E-05 | 9.82E-05 |
| 1143 | 258703.95 | 4084361.13 | 0.000027474 | 3.97E-04 | 2.93E-04 | 2.93E-04 | 1.62E-04 | 4.17E-06 | 6.05E-05 | 4.57E-05 | 4.57E-05 | 2.51E-05 | 2.26E-06 | 3.28E-05 | 2.03E-05 | 2.03E-05 | 1.01E-05 |
| 1144 | 258725.96 | 4084369.28 | 0.000028083 | 4.06E-04 | 2.99E-04 | 2.99E-04 | 1.67E-04 | 4.26E-06 | 6.19E-05 | 4.67E-05 | 4.67E-05 | 2.57E-05 | 2.31E-05 | 3.35E-05 | 2.08E-05 | 2.08E-05 | 1.03E-05 |
| 1145 | 258747.96 | 4084377.42 | 0.000028589 | 4.14E-04 | 3.05E-04 | 3.05E-04 | 1.70E-04 | 4.34E-05 | 6.30E-05 | 4.76E-05 | 4.76E-05 | 2.62E-05 | 2.36E-05 | 3.41E-05 | 2.12E-05 | 2.12E-05 | 1.05E-05 |
| 1146 | 258769.96 | 4084385.57 | 0.000028982 | 4.19E-04 | 3.09E-04 | 3.09E-04 | 1.72E-04 | 4.40E-05 | 6.39E-05 | 4.82E-05 | 4.82E-05 | 2.65E-05 | 2.39E-05 | 3.46E-05 | 2.15E-05 | 2.15E-05 | 1.06E-05 |
| 1147 | 258791.96 | 4084393.71 | 0.000029253 | 4.23E-04 | 3.12E-04 | 3.12E-04 | 1.74E-04 | 4.44E-05 | 6.45E-06 | 4.87E-05 | 4.87E-05 | 2.68E-05 | 2.41E-05 | 3.49E-05 | 2.17E-05 | 2.17E-05 | 1.07E-05 |
| 1148 | 258813.96 | 4084401.86 | 0.000029331 | 4.24E-04 | 3.13E-04 | 3.13E-04 | 1.74E-04 | 4.45E-05 | 6.46E-05 | 4.88E-05 | 4.88E-05 | 2.68E-05 | 2.42E-06 | 3.50E-05 | 2.17E-05 | 2.17E-05 | 1.08E-05 |
| 1149 | 258845.82 | 4084431.38 | 0.000030284 | 4.38E-04 | 3.23E-04 | 3.23E-04 | 1.80E-04 | 4.60E-05 | 6.67E-05 | 5.04E-05 | 5.04E-05 | 2.77E-05 | 2.50E-06 | 3.61E-05 | 2.24E-05 | 2.24E-05 | 1.11E-05 |
| 1150 | 258855.3 | 4084452.76 | 0.000031111 | 4.50E-04 | 3.32E-04 | 3.32E-04 | 1.85E-04 | 4.72E-05 | 6.86E-05 | 5.18E-05 | 5.18E-05 | 2.85E-05 | 2.56E-05 | 3.71E-05 | 2.30E-05 | 2.30E-05 | 1.14E-05 |
| 1151 | 258864.97 | 4084474.13 | 0.00002179 | 4.60E-04 | 3.39E-04 | 3.39E-04 | 1.89E-04 | 4.82E-

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 933 | 257567.74 | 4084654.32 | 9.9566E-05 | 1.44E-04 | 1.05E-04 | 1.06E-04 | 5.92E-05 | 1.51E-06 | 2.19E-05 | 1.66E-05 | 1.66E-05 | 9.11E-06 | 6.21E-07 | 1.19E-05 | 7.37E-05 | 7.37E-05 | 3.65E-05 |
| 934 | 257543.41 | 4084655.32 | 0.000009348 | 1.35E-04 | 9.97E-05 | 9.97E-06 | 5.56E-05 | 1.42E-06 | 2.06E-05 | 1.56E-05 | 1.56E-05 | 8.55E-06 | 7.71E-07 | 1.11E-05 | 6.92E-05 | 6.92E-05 | 3.43E-05 |
| 935 | 258364.49 | 4084530.63 | 0.000043621 | 6.31E-04 | 4.65E-04 | 4.65E-04 | 2.59E-04 | 6.62E-06 | 9.61E-05 | 7.26E-05 | 7.26E-05 | 3.99E-05 | 3.60E-05 | 5.20E-05 | 3.23E-05 | 3.23E-05 | 1.60E-05 |
| 936 | 258386.74 | 4084538.87 | 0.000046014 | 6.66E-04 | 4.91E-04 | 4.91E-04 | 2.73E-04 | 6.98E-06 | 1.01E-04 | 7.66E-05 | 7.66E-05 | 4.21E-05 | 3.79E-05 | 5.49E-05 | 3.41E-05 | 3.41E-05 | 1.69E-05 |
| 937 | 258408.98 | 4084547.1 | 0.000048371 | 7.00E-04 | 5.16E-04 | 5.16E-04 | 2.87E-04 | 7.34E-05 | 1.07E-04 | 8.05E-05 | 6.05E-05 | 4.43E-05 | 3.99E-05 | 5.77E-05 | 3.58E-05 | 3.58E-05 | 1.77E-05 |
| 938 | 258431.22 | 4084555.34 | 0.000050668 | 7.33E-04 | 5.40E-04 | 5.40E-04 | 3.01E-04 | 7.69E-06 | 1.23E-04 | 8.43E-06 | 6.43E-06 | 4.64E-05 | 4.18E-06 | 6.04E-05 | 3.75E-05 | 3.75E-05 | 1.86E-05 |
| 939 | 258453.47 | 4084563.57 | 0.000052869 | 7.65E-04 | 5.84E-04 | 5.64E-04 | 3.14E-04 | 8.02E-06 | 1.16E-04 | 8.80E-05 | 6.80E-05 | 4.84E-05 | 4.36E-06 | 6.30E-05 | 3.92E-05 | 3.92E-05 | 1.94E-05 |
| 940 | 258475.71 | 4084571.81 | 0.000054944 | 7.95E-04 | 5.86E-04 | 5.86E-04 | 3.27E-04 | 8.34E-06 | 1.21E-04 | 9.15E-05 | 9.15E-05 | 5.03E-05 | 4.53E-05 | 6.55E-06 | 4.07E-05 | 4.07E-05 | 2.01E-05 |
| 941 | 258497.95 | 4084580.04 | 0.000056844 | 6.22E-04 | 6.06E-04 | 6.06E-04 | 3.38E-04 | 8.63E-06 | 1.25E-04 | 9.46E-05 | 9.46E-05 | 5.20E-05 | 4.69E-06 | 6.78E-05 | 4.21E-05 | 4.21E-05 | 2.08E-05 |
| 942 | 258520.2 | 4084588.28 | 0.000058526 | 8.46E-04 | 6.24E-04 | 6.24E-04 | 3.48E-04 | 8.88E-05 | 1.29E-04 | 9.74E-05 | 9.74E-06 | 5.36E-06 | 4.82E-06 | 6.98E-05 | 4.33E-05 | 4.33E-05 | 2.15E-05 |
| 943 | 258542.44 | 4084596.52 | 0.000059924 | 8.67E-04 | 6.39E-04 | 6.39E-04 | 3.58E-04 | 9.09E-06 | 1.32E-04 | 9.97E-05 | 9.97E-05 | 5.48E-05 | 4.94E-05 | 7.14E-05 | 4.44E-06 | 4.44E-06 | 2.20E-05 |
| 944 | 258564.68 | 4084604.75 | 0.000060975 | 6.82E-04 | 6.50E-04 | 6.50E-04 | 3.62E-04 | 9.25E-06 | 1.34E-04 | 1.01E-04 | 1.01E-04 | 5.58E-05 | 5.03E-06 | 7.27E-06 | 4.52E-05 | 4.52E-05 | 2.24E-05 |
| 945 | 258586.93 | 4084612.99 | 0.000061614 | 8.91E-04 | 6.57E-04 | 6.57E-04 | 3.66E-04 | 9.35E-06 | 1.36E-04 | 1.03E-04 | 1.03E-04 | 5.64E-05 | 5.08E-06 | 7.35E-05 | 4.56E-05 | 4.58E-05 | 2.26E-05 |
| 946 | 258609.17 | 4084621.22 | 0.000061782 | 8.94E-04 | 6.59E-04 | 6.59E-04 | 3.67E-04 | 9.38E-06 | 1.36E-04 | 1.03E-04 | 1.03E-04 | 5.65E-05 | 5.09E-06 | 7.37E-05 | 4.58E-05 | 4.58E-05 | 2.26E-05 |
| 947 | 258641.19 | 4084651.07 | 0.000064069 | 9.27E-04 | 6.83E-04 | 6.83E-04 | 3.81E-04 | 9.72E-06 | 1.41E-04 | 1.07E-04 | 1.07E-04 | 5.86E-05 | 5.28E-06 | 7.64E-05 | 4.74E-05 | 4.74E-05 | 2.35E-05 |
| 948 | 258650.97 | 4084672.68 | 0.00006619 | 9.57E-04 | 7.06E-04 | 7.06E-04 | 3.93E-04 | 1.00E-05 | 1.48E-04 | 1.10E-04 | 1.10E-04 | 6.06E-05 | 5.46E-06 | 7.89E-05 | 4.90E-05 | 4.90E-06 | 2.43E-06 |
| 949 | 258660.74 | 4084694.29 | 0.000067559 | 9.77E-04 | 7.20E-04 | 7.20E-04 | 4.02E-04 | 1.03E-05 | 1.49E-04 | 1.12E-04 | 1.12E-04 | 6.16E-05 | 5.57E-06 | 8.05E-05 | 5.00E-05 | 5.00E-05 | 2.48E-05 |
| 950 | 258670.52 | 4084725.9 | 0.000068123 | 9.85E-04 | 7.26E-04 | 7.26E-04 | 4.05E-04 | 1.03E-05 | 1.50E-04 | 1.12E-04 | 1.23E-04 | 6.23E-05 | 5.61E-06 | 6.12E-05 | 5.04E-05 | 5.04E-06 | 2.50E-05 |
| 951 | 258680.3 | 4084737.51 | 0.000067912 | 9.82E-04 | 7.24E-04 | 7.24E-04 | 4.04E-04 | 1.03E-05 | 1.50E-04 | 1.23E-04 | 1.13E-04 | 6.21E-05 | 5.60E-06 | 6.10E-05 | 5.03E-05 | 5.03E-06 | 2.49E-05 |
| 992 | 258690.07 | 4084759.12 | 0.000066796 | 9.66E-04 | 7.12E-04 | 7.12E-04 | 3.97E-04 | 1.01E-05 | 1.47E-04 | 1.11E-04 | 1.11E-04 | 6.11E-05 | 5.51E-06 | 7.96E-06 | 4.95E-06 | 4.95E-05 | 2.45E-06 |
| 953 | 258699.65 | 4084780.73 | 0.000064792 | 9.37E-04 | 8.91E-04 | 6.91E-04 | 3.85E-04 | 9.83E-06 | 1.43E-04 | 1.08E-04 | 1.08E-04 | 5.93E-05 | 5.34E-06 | 7.72E-05 | 4.80E-05 | 4.80E-05 | 2.36E-05 |
| 954 | 258709.63 | 4084802.34 | 0.000062008 | 6.97E-04 | 6.61E-04 | 6.61E-04 | 3.69E-04 | 9.41E-06 | 1.37E-04 | 1.03E-04 | 1.03E-04 | 5.67E-05 | 5.11E-05 | 7.39E-05 | 4.59E-05 | 4.59E-05 | 2.27E-05 |
| 955 | 258719.4 | 4084823.95 | 0.00005859 | 8.47E-04 | 6.25E-04 | 6.23E-04 | 3.48E-04 | 8.89E-06 | 1.29E-04 | 9.75E-05 | 9.75E-05 | 5.36E-05 | 4.83E-06 | 6.99E-05 | 4.34E-05 | 4.34E-05 | 2.15E-05 |
| 956 | 258729.18 | 4084845.56 | 0.000054725 | 7.92E-04 | 5.83E-04 | 5.83E-04 | 3.25E-04 | 8.31E-05 | 1.21E-04 | 9.11E-06 | 9.11E-05 | 5.01E-05 | 4.51E-06 | 6.52E-05 | 4.05E-06 | 4.05E-05 | 2.01E-05 |
| 957 | 258738.96 | 4084867.17 | 0.000050617 | 7.32E-04 | 5.40E-04 | 5.40E-04 | 3.01E-04 | 7.68E-05 | 1.12E-04 | 8.43E-05 | 8.43E-06 | 4.63E-05 | 4.17E-05 | 6.03E-05 | 3.75E-06 | 3.75E-06 | 1.86E-05 |
| 958 | 258748.73 | 4084888.78 | 0.000046451 | 8.72E-04 | 4.95E-04 | 4.95E-04 | 2.76E-04 | 7.05E-06 | 1.02E-04 | 7.73E-05 | 7.73E-05 | 4.25E-05 | 3.83E-05 | 5.54E-05 | 3.44E-05 | 3.44E-05 | 1.70E-05 |
| 959 | 258342.25 | 4084522.4 | 0.000041242 | 5.97E-04 | 4.40E-04 | 4.40E-04 | 2.45E-04 | 6.26E-06 | 9.09E-05 | 6.86E-05 | 6.86E-05 | 3.77E-05 | 3.40E-05 | 4.92E-05 | 3.05E-05 | 3.05E-05 | 1.51E-05 |
| 960 | 258317.92 | 4084523.4 | 0.000040406 | 5.84E-04 | 4.31E-04 | 4.31E-04 | 2.40E-04 | 6.12E-06 | 8.90E-05 | 6.73E-05 | 6.73E-05 | 3.70E-05 | 3.33E-06 | 4.82E-05 | 2.99E-06 | 2.99E-05 | 1.48E-06 |
| 961 | 258293.59 | 4084524.4 | 0.000039476 | 5.71E-04 | 4.21E-04 | 4.21E-04 | 2.35E-04 | 5.99E-06 | 8.70E-05 | 6.57E-06 | 6.57E-05 | 3.61E-05 | 3.23E-06 | 4.71E-05 | 2.92E-05 | 2.92E-05 | 1.45E-05 |
| 962 | 258269.25 | 4084525.4 | 0.000038453 | 5.56E-04 | 4.10E-04 | 4.10E-04 | 2.29E-04 | 5.84E-06 | 8.47E-05 | 6.40E-05 | 6.40E-05 | 3.52E-05 | 3.17E-06 | 4.58E-05 | 2.85E-05 | 2.85E-05 | 1.41E-05 |
| 963 | 258244.92 | 4084526.4 | 0.000037343 | 5.40E-04 | 3.98E-04 | 3.98E-04 | 2.22E-04 | 5.67E-06 | 6.23E-06 | 6.22E-05 | 6.22E-05 | 3.42E-05 | 3.08E-06 | 4.45E-05 | 2.72E-05 | 2.77E-05 | 1.37E-05 |
| 964 | 258220.59 | 4084527.4 | 0.000036148 | 5.23E-04 | 3.85E-04 | 3.85E-04 | 2.15E-04 | 5.49E-06 | 7.97E-05 | 6.02E-06 | 6.02E-06 | 3.31E-05 | 2.98E-05 | 4.31E-05 | 2.68E-05 | 2.68E-05 | 1.33E-05 |
| 965 | 258196.26 | 4084528.4 | 0.00003488 | 5.04E-04 | 3.72E-04 | 3.72E-04 | 2.07E-04 | 5.29E-06 | 7.69E-05 | 5.81E-05 | 5.81E-05 | 3.19E-05 | 2.88E-05 | 4.16E-05 | 2.58E-05 | 2.58E-05 | 1.28E-06 |
| 966 | 258171.93 | 4084529.4 | 0.000033546 | 4.85E-04 | 3.58E-04 | 3.58E-04 | 1.99E-04 | 5.09E-05 | 7.39E-05 | 5.58E-05 | 5.58E-05 | 3.07E-05 | 2.77E-06 | 4.00E-05 | 2.48E-05 | 2.48E-06 | 1.23E-05 |
| 967 | 258147.59 | 4084530.4 | 0.000032152 | 4.65E-04 | 3.43E-04 | 3.43E-04 | 1.91E-04 | 4.88E-06 | 7.08E-05 | 5.35E-05 | 5.35E-05 | 2.94E-05 | 2.65E-06 | 3.83E-05 | 2.38E-06 | 2.38E-06 | 1.18E-05 |
| 968 | 258123.26 | 4084531.4 | 0.000030714 | 4.44E-04 | 3.27E-04 | 3.77E-04 | 1.83E-04 | 4.66E-06 | 6.77E-05 | 5.11E-05 | 5.11E-05 | 2.81E-05 | 2.53E-05 | 3.66E-05 | 2.27E-05 | 2.27E-05 | 1.23E-05 |
| 969 | 258098.93 | 4084532.4 | 0.000029234 | 4.23E-04 | 3.12E-04 | 3.12E-04 | 1.74E-04 | 4.44E-06 | 6.44E-05 | 4.87E-06 | 4.87E-05 | 2.68E-05 | 2.41E-06 | 3.49E-05 | 2.17E-06 | 2.17E-05 | 1.07E-05 |
| 970 | 258074.6 | 4084533.4 | 0.000027724 | 4.01E-04 | 2.96E-04 | 2.96E-04 | 1.65E-04 | 4.21E-06 | 6.11E-06 | 4.61E-05 | 4.61E-05 | 2.54E-05 | 2.29E-06 | 3.31E-05 | 2.05E-05 | 2.05E-05 | 1.02E-05 |
| 971 | 258050.27 | 4084534.4 | 0.000026196 | 3.79E-04 | 2.79E-04 | 2.79E-04 | 1.56E-04 | 3.98E-05 | 5.77E-06 | 4.36E-05 | 4.36E-05 | 2.40E-05 | 2.16E-05 | 3.12E-05 | 1.94E-05 | 1.94E-05 | 9.60E-06 |
| 972 | 258025.94 | 4084535.4 | 0.000024659 | 3.57E-04 | 2.63E-04 | 2.63E-04 | 1.47E-04 | 3.74E-06 | 5.43E-05 | 4.10E-06 | 4.10E-06 | 2.26E-05 | 2.03E-05 | 2.94E-05 | 1.83E-05 | 1.83E-05 | 9.04E-06 |
| 973 | 258001.6 | 4084536.4 | 0.000023128 | 3.35E-04 | 2.47E-04 | 2.47E-04 | 1.37E-04 | 3.51E-06 | 5.10E-05 | 3.85E-05 | 3.85E-05 | 2.12E-05 | 1.91E-05 | 2.76E-05 | 1.71E-05 | 1.71E-05 | 8.48E-06 |
| 974 | 257972.27 | 4084537.4 | 0.000021616 | 3.13E-04 | 2.30E-04 | 2.30E-04 | 1.28E-04 | 3.28E-05 | 4.76E-05 | 3.60E-05 | 3.60E-05 | 1.98E-05 | 1.78E-06 | 2.58E-05 | 1.60E-05 | 1.60E-05 | 7.92E-05 |
| 975 | 257952.94 | 4084538.4 | 0.000020143 | 2.91E-04 | 2.25E-04 | 2.15E-04 | 1.20E-04 | 3.06E-05 | 4.44E-05 | 3.35E-05 | 3.35E-05 | 1.84E-05 | 1.66E-06 | 2.40E-05 | 1.49E-05 | 1.49E-05 | 7.38E-06 |
| 976 | 257928.61 | 4084539.4 | 0.000018721 | 2.71E-04 | 2.00E-04 | 2.00E-04 | 1.11E-04 | 2.84E-06 | 4.23E-05 | 3.12E-05 | 3.23E-05 | 1.71E-05 | 1.54E-06 | 2.23E-05 | 1.39E-05 | 1.39E-05 | 6.86E-06 |
| 977 | 257904.28 | 4084540.4 | 0.000017364 | 2.51E-04 | 1.85E-04 | 1.85E-04 | 1.03E-04 | 2.64E-06 | 3.83E-05 | 2.89E-05 | 2.89E-05 | 1.59E-05 | 1.43E-05 | 2.07E-05 | 1.29E-05 | 1.29E-05 | 6.37E-05 |
| 978 | 257879.94 | 4084541.4 | 0.000016087 | 2.33E-04 | 1.72E-04 | 1.72E-04 | 9.56E-06 | 2.44E-05 | 3.54E-05 | 2.68E-05 | 2.66E-05 | 1.47E-05 | 1.33E-06 | 1.92E-05 | 1.19E-05 | 1.19E-05 | 5.90E-06 |
| 979 | 257855.61 | 4084542.4 | 0.000014899 | 2.15E-04 | 1.59E-04 | 1.59E-04 | 8.86E-05 | 2.26E-05 | 3.28E-05 | 2.48E-05 | 2.48E-06 | 1.36E-05 | 1.23E-05 | 1.78E-05 | 1.10E-05 | 1.10E-05 | 5.46E-05 |
| 980 | 257831.28 | 4084543.4 | 0.000013805 | 2.00E-04 | 1.47E-04 | 1.47E-04 | 8.20E-05 | 2.10E-05 | 3.04E-05 | 2.30E-05 | 2.30E-05 | 1.26E-05 | 1.14E-06 | 1.65E-05 | 1.02E-05 | 1.02E-05 | 5.06E-06 |
| 981 | 257806.95 | 4084544.4 | 0.000012803 | 1.85E-04 | 1.36E-04 | 1.36E-04 | 7.61E-05 | 1.94E-06 | 2.82E-05 | 2.13E-05 | 2.23E-05 | 1.17E-05 | 1.06E-06 | 1.53E-05 | 9.48E-06 | 9.48E-05 | 4.69E-06 |
| 982 | 257782.62 | 4084545.4 | 0.000011895 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.07E-06 | 1.81E-06 | 2.62E-05 | 1.98E-06 | 1.98E-06 | 1.09E-05 | 9.80E-07 | 1.42E-06 | 8.81E-05 | 8.81E-05 | 4.36E-05 |
| 983 | 257758.29 | 4084546.4 | 0.000011075 | 1.60E-04 | 1.18E-04 | 1.18E-04 | 6.58E-05 | 1.68E-06 | 2.44E-05 | 1.84E-06 | 1.84E-05 | 1.01E-05 | 9.13E-07 | 1.32E-06 | 8.20E-05 | 8.20E-06 | 4.06E-05 |
| 984 | 257733.95 | 4084547.41 | 0.000010338 | 1.50E-04 | 1.10E-04 | 1.10E-04 | 6.14E-05 | 1.57E-06 | 2.78E-05 | 1.72E-05 | 1.72E-05 | 9.46E-06 | 8.52E-07 | 1.23E-05 | 7.66E-06 | 7.66E-06 | 3.79E-06 |
| 985 | 257709.62 | 4084548.41 | 9.6779E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.75E-05 | 1.47E-06 | 2.23E-05 | 1.61E-05 | 1.61E-05 | 8.86E-06 | 7.98E-07 | 1.15E-05 | 7.17E-05 | 7.17E-05 | 3.55E-05 |
| 986 | 257685.29 | 4084549.41 | 9.0877E-06 | 1.31E-04 | 9.69E-05 | 9.69E-05 | 5.40E-05 | 1.38E-05 | 2.00E-05 | 1.51E-05 | 1.51E-05 | 8.32E-06 | 7.49E-07 | 1.08E-05 | 6.73E-06 | 6.73E-06 | 3.33E-05 |
| 987 | 257660.96 | 4084550.41 | 8.5591E-06 | 1.24E-04 | 9.12E-05 | 9.12E-05 | 5.09E-05 | 1.30E-06 | 1.89E-05 | 1.42E-05 | 1.42E-05 | 7.83E-06 | 7.06E-07 | 1.02E-06 | 6.34E-06 | 6.34E-05 | 3.14E-06 |
| 988 | 257636.63 | 4084551.41 | 8.0837E-05 | 1.17E-04 | 8.62E-05 | 8.62E-05 | 4.80E-05 | 1.23E-05 | 1.78E-05 | 1.35E-05 | 1.35E-06 | 7.40E-06 | 6.66E-07 | 9.64E-06 | 5.99E-05 | 5.99E-05 | 2.96E-06 |
| 989 | 257612.29 | 4084552.41 | 7.6554E-06 | 1.13E-04 | 8.16E-05 | 8.16E-05 | 4.55E-05 | 1.16E-05 | 1.69E-05 | 1.27E-05 | 1.27E-06 | 7.01E-06 | 6.31E-07 | 9.13E-06 | 5.67E-06 | 5.67E-06 | 2.81E-05 |
| 990 | 257587.96 | 4084553.41 | 7.2663E-06 | 1.05E-04 | 7.75E-05 | 7.75E-05 | 4.32E-05 | 1.10E-06 | 1.60E-05 | 1.21E-05 | 1.21E-05 | 6.65E-06 | 5.99E-07 | 8.66E-06 | 5.38E-06 | 5.38E-06 | 2.68E-05 |
| 991 | 257563.63 | 4084554.41 | 6.9116E-06 | 1.00E-04 | 7.37E-05 | 7.37E-05 | 4.11E-05 | 1.05E-06 | 1.52E-05 | 1.15E-05 | 1.15E-06 | 6.32E-06 | 5.70E-07 | 6.24E-06 | 5.12E-06 | 5.12E-06 | 2.53E-05 |
| 992 | 257539.3 | 4084555.41 | 6.5837E-06 | 9.52E-05 | 7.02E-05 | 7.02E-05 | 3.91E-05 | 9.99E-07 | 1.46E-05 | 1.10E-05 | 1.10E-05 | 6.02E-06 | 5.43E-07 | 7.85E-06 | 4.88E-06 | 4.88E-06 | 2.41E-05 |
| 993 | 258360.73 | 4084430.85 | 0.000028321 | 4.10E-04 | 3.02E-04 | 3.02E-04 | 1.68E-04 | 4.30E-06 | 6.24E-05 | 4.71E-05 | 4.71E-05 | 2.59E-05 | 2.33E-06 | 3.38E-05 | 2.10E-05 | 2.10E-05 | 1.04E-05 |
| 994 | 258383.32 | 4084439.21 | 0.000030118 | 4.36E-04 | 3.23E-04 | 3.21E-04 | 1.79E-04 | 4.57E-06 | 6.64E-05 | 5.01E-05 | 5.01E-05 | 2.76E-05 | 2.48E-05 | 3.59E-05 | 2.23E-05 | 2.23E-05 | 1.10E-05 |
| 995 | 258405.91 | 4084447.57 | 0.000031904 | 4.61E-04 | 3.40E-04 | 3.40E-04 | 1.90E-04 | 4.84E-06 | 7.03E-05 | 5.31E-05 | 5.33E-05 | 2.92E-05 | 2.63E-06 | 3.80E-06 | 2.36E-05 | 2.36E-06 | 1.17E-05 |
| 996 | 258428.51 | 4084455.94 | 0.000033685 | 4.87E-04 | 3.58E-04 | 3.59E-04 | 2.00E-04 | 5.11E-06 | 7.42E-05 | 5.61E-05 | 5.63E-06 | 3.08E-06 | 2.78E-06 | 4.02E-05 | 2.49E-06 | 2.49E-05 | 1.23E-05 |
| 997 | 258451.1 | 4084464.3 | 0.000035412 | 5.23E-04 | 3.78E-04 | 3.78E-04 | 2.10E-04 | 5.37E-06 | 7.80E-05 | 5.89E-05 | 5.89E-05 | 3.24E-05 | 2.92E-06 | 4.22E-05 | 2.62E-05 | 2.62E-05 | 1.30E-05 |
| 998 | 258473.69 | 4084472.67 | 0.000037117 | 5.37E-04 | 3.96E-04 | 3.96E-04 | 2.21E-04 | 5.63E-06 | 6.18E-05 | 6.18E-05 | 6.18E-05 | 3.40E-05 | 3.06E-06 | 4.43E-05 | 2.75E-05 | 2.75E-05 | 1.36E-05 |
| 999 | 258496.28 | 4084481.03 | 0.000038721 | 5.61E-04 | 4.13E-04 | 4.12E-04 | 2.30E-04 | 5.88E-06 | 8.54E-05 | 6.45E-05 | 6.45E-05 | 3.55E-06 | 3.20E-06 | 4.62E-05 | 2.87E-05 | 2.87E-05 | 1.42E-05 |
| 1000 | 258518.87 | 4084489.39 | 0.000040341 | 5.83E-04 | 4.30E-04 | 4.30E-04 | 2.40E-04 | 6.12E-05 | 8.89E-05 | 6.71E-06 | 6.71E-06 | 3.69E-05 | 3.33E-06 | 4.81E-06 | 2.99E-06 | 2.99E-06 | 1.48E-05 |
| 1001 | 258541.46 | 4084497.76 | 0.000041804 | 6.05E-04 | 4.46E-04 | 4.46E-04 | 2.48E-04 | 6.34E-06 | 9.21E-05 | 6.96E-05 | 6.96E-05 | 3.83E-06 | 3.45E-05 | 4.98E-05 | 3.10E-05 | 3.10E-05 | 1.53E-05 |
| 1002 | 258564.05 | 4084506.23 | 0.000043121 | 6.24E-04 | 4.60E-04 | 4.60E-04 | 2.56E-04 | 6.55E-06 | 9.50E-05 | 7.16E-05 | 7.18E-05 | 3.99E-05 | 3.56E-06 | 5.14E-06 | 3.19E-05 | 3.19E-05 | 1.58E-05 |
| 1003 | 258586.64 | 4084514.49 | 0.000044291 | 6.41E-04 | 4.72E-04 | 4.72E-04 | 2.63E-04 | 6.72E-06 | 9.76E-05 | 7.37E-05 | 7.37E-05 | 4.05E-05 | 3.65E-06 | 5.28E-05 | 3.28E-05 | 3.28E-05 | 1.62E-05 |
| 1004 | 258609.23 | 4084522.85 | 0.000045248 | 6.54E-04 | 4.82E-04 | 4.82E-04 | 2.69E-04 | 6.87E-06 | 9.97E-06 | 7.53E-05 | 7.53E-06 | 4.14E-06 | 3.73E-06 | 5.39E-05 | 3.35E-05 | 3.35E-05 | 1.66E-05 |
| 1005 | 258631.82 | 4084531.21 | 0.000045965 | 6.65E-04 | 4.90E-04 | 4.90E-04 | 2.73E-04 | 8.98E-06 | 1.01E-04 | 7.65E-05 | 7.66E-05 | 4.23E-05 | 3.79E-06 | 5.48E-05 | 3.40E-05 | 3.40E-05 | 1.68E-05 |
| 1006 | 258654.41 | 4084539.58 | 0.000046414 | 6.71E-04 | 4.95E-04 | 4.95E-04 | 2.76E-04 | 7.04E-06 | 1.02E-04 | 7.73E-05 | 7.73E-05 | 4.25E-05 | 3.83E-06 | 5.53E-05 | 3.44E-05 | 3.44E-05 | 1.70E-05 |
| 1007 | 258677.01 | 4084547.94 | 0.000046557 | 6.73E-04 | 4.96E-04 | 4.96E-04 | 2.77E-04 | 7.07E-06 | 1.03E-04 | 7.75E-05 | 7.75E-05 | 4.26E-05 | 3.84E-06 | 5.55E-05 | 3.46E-05 | 3.45E-05 | 1.71E-05 |
| 1008 | 258709.53 | 4084578.25 | 0.000048029 | 6.95E-04 | 5.12E-04 | 5.12E-04 | 2.85E-04 | 7.29E-06 | 1.06E-04 | 7.99E-06 | 7.99E-06 | 4.40E-05 | 3.96E-06 | 5.73E-05 | 3.56E-05 | 3.56E-05 | 1.76E-05 |
| 1009 | 258719.46 | 4084600.2 | 0.000049504 | 7.16E-04 | 5.26E-04 | 5.28E-04 | 2.94E-04 | 7.51E-06 | 1.09E-04 | 8.24E-05 | 8.24E-06 | 4.53E-05 | 4.08E-06 | 5.90E-05 | 3.67E-06 | 3.67E-06 | 1.81E-06 |
| 1010 | 258729.38 | 4084622.15 | 0.000050606 | 7.32E-04 | 5.39E-04 | 5.39E-04 | 3.01E-04 | 7.68E-06 | 1.12E-04 | 8.42E-05 | 6.42E-06 | 4.63E-06 | 4.17E-06 | 6.03E-06 | 3.75E-06 | 3.75E-05 | 1.86E-05 |
| 1011 | 258739.31 | 4084644.1 | 0.000052372 | 7.42E-04 | 5.47E-04 | 5.47E-04 | 3.05E-04 | 7.78E-06 | 1.23E-04 | 8.53E-05 | 8.53E-05 | 4.69E-05 | 4.23E-06 | 6.11E-05 | 3.80E-05 | 3.80E-06 | 1.88E-05 |
| 1023 | 258749.24 | 4084666.05 | 0.000051447 | 7.44E-04 | 5.48E-04 | 5.48E-04 | 3.06E-04 | 7.81E-06 | 1.23E-04 | 8.56E-06 | 6.56E-05 | 4.73E-05 | 4.24E-06 | 6.12E-05 | 3.81E-06 | 3.81E-06 | 1.89E-05 |
| 1023 | 258759.17 | 4084687.99 | 0.000051094 | 7.39E-04 | 5.45E-04 | 5.45E-04 | 3.04E-04 | 7.75E-06 | 1.23E-04 | 8.50E-05 | 8.50E-06 | 4.68E-06 | 4.23E-06 | 6.09E-05 | 3.78E-05 | 3.78E-05 | 1.87E-05 |
| 1014 | 258769.1 | 4084709.94 | 0.000050205 | 7.26E-04 | 5.35E-04 | 5.35E-04 | 2.98E-04 | 7.62E-05 | 1.11E-04 | 8.36E-05 | 8.36E-06 | 4.58E-05 | 4.14E-06 | 5.99E-05 | 3.72E-06 | 3.72E-05 | 1.84E-05 |
| 1015 | 258779.03 | 4084731.89 | 0.000048805 | 7.06E-04 | 5.20E-04 | 5.20E-04 | 2.90E-04 | 7.41E-06 | 1.08E-04 | 8.12E-05 | 8.23E-05 | 4.47E-05 | 4.02E-06 | 5.82E-05 | 3.61E-05 | 3.61E-05 | 1.79E-05 |
| 1016 | 258768.96 | 4084753.84 | 0.000046951 | 6.79E-04 | 5.03E-04 | 5.03E-04 | 2.79E-04 | 7.23E-05 | 1.03E-04 | 7.81E-05 | 7.81E-05 | 4.30E-05 | 3.87E-06 | 5.60E-05 | 3.48E-06 | 3.48E-06 | 1.72E-05 |
| 1017 | 258798.89 | 4084775.79 | 0.000044724 | 8.47E-04 | 4.77E-04 | 4.77E-04 | 2.66E-04 | 6.79E-05 | 9.85E-05 | 7.44E-05 | 7.44E-06 | 4.09E-05 | 3.69E-06 | 5.33E-05 | 3.31E-05 | 3.31E-05 | 1.64E-06 |
| 1018 | 258808.82 | 4084797.73 | 0.000042223 | 6.11E-04 | 4.50E-04 | 4.50E-04 | 2.51E-04 | 6.41E-06 | 9.30E-05 | 7.03E-05 | 7.03E-05 | 3.86E-05 | 3.48E-05 | 5.03E-05 | 3.12E-06 | 3.12E-05 | 1.55E-05 |
| 1019 | 258816.75 | 4084819.68 | 0.000039525 | 5.72E-04 | 4.21E-04 | 4.21E-04 | 2.35E-04 | 6.00E-05 | 8.71E-05 | 6.58E-05 | 6.58E-05 | 3.62E-05 | 3.28E-05 | 4.71E-05 | 2.93E-06 | 2.93E-05 | 1.45E-05 |
| 1020 | 258828.68 | 4084841.63 | 0.000036769 | 5.32E-04 | 3.92E-04 | 3.92E-04 | 2.19E-04 | 5.58E-05 | 8.10E-05 | 6.12E-05 | 6.12E-06 | 3.36E-06 | 3.03E-06 | 4.38E-05 | 2.72E-06 | 2.72E-06 | 1.35E-05 |
| 1021 | 258838.61 | 4084863.58 | 0.000034038 | 4.92E-04 | 3.63E-04 | 3.63E-04 | 2.02E-04 | 5.17E-06 | 7.50E-05 | 5.67E-06 | 5.67E-06 | 3.11E-05 | 2.81E-06 | 4.06E-05 | 2.52E-05 | 2.52E-05 | 1.25E-06 |
| 1022 | 258848.54 | 4084885.53 | 0.000031394 | 4.54E-04 | 3.35E-04 | 3.35E-04 | 1.87E-04 | 4.76E-06 | 6.92E-05 | 5.23E-06 | 5.23E-06 | 2.87E-05 | 2.59E-05 | 3.74E-05 | 2.32E-06 | 2.32E-05 | 1.15E-05 |
| 1023 | 258338.14 | 4084422.48 | 0.000026554 | 3.84E-04 | 2.83E-04 | 2.63E-04 | 1.58E-04 | 4.03E-06 | 5.85E-05 | 4.42E-05 | 4.42E-05 | 2.43E-05 | 2.19E-06 | 3.17E-05 | 1.97E-05 | 1.97E-05 | 9.73E-06 |
| 1024 | 258312.81 | 4084423.48 | 0.000025767 | 3.73E-04 | 2.75E-04 | 2.75E-04 | 1.53E-04 | 3.91E-05 | 5.66E-06 | 4.29E-05 | 4.29E-05 | 2.36E-05 | 2.12E-06 | 3.07E-05 | 1.91E-05 | 1.91E-05 | 9.45E-05 |
| 1025 | 258289.48 | 4084424.48 | 0.000024935 | 3.61E-04 | 2.66E-04 | 2.66E-04 | 1.48E-04 | 3.78E-06 | 5.49E-06 | 4.15E-05 | 4.15E-06 | 2.28E-06 | 2.06E-06 | 2.97E-05 | 1.85E-05 | 1.85E-05 | 9.14E-05 |
| 1026 | 258265.15 | 4084425.48 | 0.00002406 | 3.48E-04 | 2.56E-04 | 2.56E-04 | 1.43E-04 | 3.65E-06 | 5.30E-05 | 4.00E-06 | 4.00E-06 | 2.20E-05 | 1.98E-06 | 2.87E-05 | 1.78E-05 | 1.78E-05 | 8.82E-06 |
| 1027 | 258240.81 | 4084426.48 | 0.000023145 | 3.35E-04 | 2.47E-04 | 2.47E-04 | 1.38E-04 | 3.51E-06 | 5.10E-05 | 3.85E-06 | 3.85E-05 | 2.12E-05 | 1.91E-05 | 2.76E-05 | 1.71E-05 | 1.71E-05 | 8.48E-05 |
| 1028 | 258216.48 | 4084427.48 | 0.000022196 | 3.21E-04 | 2.37E-04 | 2.37E-04 | 1.32E-04 | 3.37E-06 | 4.89E-06 | 3.69E-05 | 3.69E-05 | 2.03E-06 | 1.83E-06 | 2.65E-05 | 1.64E-05 | 1.64E-05 | 8.14E-06 |
| 1029 | 258192.15 | 4084428.48 | 0.000021222 | 3.07E-04 | 2.26E-04 | 2.26E-04 | 1.26E-04 | 3.22E-06 | 4.68E-06 | 3.53E-06 | 3.53E-05 | 1.94E-05 | 1.75E-06 | 2.53E-05 | 1.57E-05 | 1.57E-05 | 7.78E-06 |
| 1030 | 258167.82 | 4084429.48 | 0.000020229 | 2.93E-04 | 2.16E-04 | 2.16E-04 | 1.20E-04 | 3.07E-06 | 4.46E-06 | 3.37E-05 | 3.37E-06 | 1.85E-05 | 1.67E-06 | 2.41E-06 | 1.50E-05 | 1.50E-05 | 7.42E-06 |
| 1031 | 258143.49 | 4084430.48 | 0.000019229 | 2.78E-04 | 2.05E-04 | 2.05E-04 | 1.14E-04 | 2.92E-06 | 4.24E-05 | 3.20E-05 | 3.20E-06 | 1.76E-05 | 1.59E-06 | 2.29E-06 | 1.42E-05 | 1.42E-05 | 7.05E-06 |
| 1032 | 258119.16 | 4084431.48 | 0.000018231 | 2.64E-04 | 1.94E-04 | 1.94E-04 | 1.08E-04 | 2.72E-06 | 4.02E-05 | 3.03E-05 | 3.03E-06 | 1.67E-05 | 1.50E-06 | 2.17E-05 | 1.35E-06 | 1.35E-05 | 6.68E-06 |
| 1033 | 258094.82 | 4084432.49 | 0.000017241 | 2.49E-04 | 1.84E-04 | 1.84E-04 | 1.02E-04 | 2.62E-06 | 3.80E-05 | 2.87E-05 | 2.87E-05 | 1.58E-05 | 1.42E-06 | 2.06E-05 | 1.28E-05 | 1.28E-05 | 6.32E-05 |
| 1034 | 258070.49 | 4084433.49 | 0.000016274 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.67E-05 | 2.47E-06 | 3.59E-05 | 2.71E-05 | 2.73E-05 | 1.49E-05 | 1.34E-06 | 1.94E-06 | 1.21E-05 | 1.21E-05 | 5.97E-06 |
| 1035 | 258046.16 | 4084434.49 | 

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 616 | 257985.49 | 4084737.25 | 0.000085339 | 1.25E-03 | 9.10E-04 | 9.10E-04 | 5.07E-04 | 1.30E-05 | 1.88E-04 | 1.42E-04 | 1.42E-04 | 7.61E-05 | 7.03E-06 | 1.02E-04 | 6.32E-06 | 6.32E-05 | 3.13E-06 |
| 617 | 257961.16 | 4084738.23 | 0.000061415 | 1.16E-03 | 8.68E-04 | 8.68E-04 | 4.84E-04 | 1.24E-05 | 1.79E-04 | 1.36E-04 | 1.36E-04 | 7.45E-06 | 6.71E-06 | 9.71E-05 | 6.03E-06 | 6.03E-05 | 2.98E-06 |
| 618 | 257936.82 | 4084739.23 | 0.000077169 | 1.12E-03 | 8.23E-04 | 8.23E-04 | 4.59E-04 | 1.17E-05 | 1.70E-04 | 1.28E-04 | 1.28E-04 | 7.06E-05 | 6.36E-06 | 9.20E-05 | 5.71E-05 | 5.71E-05 | 2.83E-05 |
| 619 | 257912.49 | 4084740.23 | 0.000072622 | 1.05E-03 | 7.74E-04 | 7.74E-04 | 4.32E-04 | 1.10E-05 | 1.60E-04 | 1.21E-04 | 1.21E-04 | 6.65E-06 | 5.99E-06 | 8.66E-05 | 5.38E-05 | 5.38E-05 | 2.66E-05 |
| 620 | 257888.16 | 4084741.23 | 0.000067796 | 9.81E-04 | 7.25E-04 | 7.25E-04 | 4.03E-04 | 1.03E-05 | 1.49E-04 | 1.13E-04 | 1.13E-04 | 6.20E-06 | 5.59E-06 | 8.08E-05 | 5.02E-05 | 5.02E-05 | 2.49E-05 |
| 621 | 257863.83 | 4084742.23 | 0.000062741 | 9.07E-04 | 6.69E-04 | 6.69E-04 | 3.73E-04 | 9.52E-06 | 1.38E-04 | 1.04E-04 | 1.04E-04 | 5.74E-06 | 5.17E-06 | 7.48E-05 | 4.65E-05 | 4.65E-05 | 2.30E-05 |
| 622 | 257839.5 | 4084743.24 | 0.000057522 | 8.32E-04 | 6.13E-04 | 6.13E-04 | 3.42E-04 | 8.73E-06 | 1.27E-04 | 9.57E-05 | 9.57E-06 | 5.26E-05 | 4.74E-06 | 6.86E-05 | 4.26E-05 | 4.26E-05 | 2.11E-05 |
| 623 | 257815.16 | 4084744.24 | 0.000052217 | 7.55E-04 | 5.57E-04 | 5.57E-04 | 3.10E-04 | 7.92E-06 | 1.15E-04 | 8.69E-05 | 8.69E-05 | 4.78E-05 | 4.30E-06 | 6.23E-05 | 3.87E-05 | 3.87E-05 | 1.91E-06 |
| 624 | 257790.83 | 4084745.24 | 0.000046939 | 6.79E-04 | 5.00E-04 | 5.00E-04 | 2.79E-04 | 7.12E-06 | 1.03E-04 | 7.81E-05 | 7.81E-05 | 4.30E-06 | 3.67E-06 | 5.60E-05 | 3.48E-05 | 3.48E-05 | 1.72E-05 |
| 625 | 257766.5 | 4084746.24 | 0.00004181 | 6.05E-04 | 4.46E-04 | 4.46E-04 | 2.48E-04 | 6.35E-06 | 9.21E-06 | 6.96E-05 | 6.96E-05 | 3.83E-06 | 3.45E-06 | 4.98E-05 | 3.10E-05 | 3.10E-05 | 1.53E-05 |
| 626 | 257742.17 | 4084747.24 | 0.00003696 | 5.35E-04 | 3.94E-04 | 3.94E-04 | 2.20E-04 | 5.61E-06 | 8.14E-05 | 6.15E-05 | 6.15E-05 | 3.38E-05 | 3.05E-06 | 4.41E-05 | 2.74E-05 | 2.74E-05 | 1.35E-05 |
| 627 | 257717.84 | 4084748.24 | 0.00003257 | 4.70E-04 | 3.47E-04 | 3.47E-04 | 1.93E-04 | 4.93E-06 | 7.16E-05 | 5.41E-05 | 5.41E-05 | 2.97E-05 | 2.68E-06 | 3.88E-05 | 2.41E-05 | 2.41E-05 | 1.19E-06 |
| 628 | 257693.51 | 4084749.24 | 0.00002854 2 | 4.13E-04 | 3.04E-04 | 3.04E-04 | 1.70E-04 | 4.33E-06 | 6.29E-05 | 4.75E-06 | 4.75E-05 | 2.61E-05 | 2.35E-06 | 3.40E-05 | 2.11E-05 | 2.11E-05 | 1.05E-05 |
| 629 | 257669.17 | 4084750.24 | 0.00002511 6 | 3.63E-04 | 2.68E-04 | 2.68E-04 | 1.49E-04 | 3.81E-06 | 5.53E-05 | 4.18E-06 | 4.18E-05 | 2.30E-06 | 2.07E-06 | 2.99E-05 | 1.86E-05 | 1.86E-05 | 9.21E-06 |
| 630 | 257644.84 | 4084751.24 | 0.00002222 9 | 3.22E-04 | 2.37E-04 | 2.37E-04 | 1.32E-04 | 3.37E-06 | 4.90E-05 | 3.70E-05 | 3.70E-05 | 2.03E-05 | 1.83E-06 | 2.65E-05 | 1.65E-05 | 1.65E-05 | 8.15E-06 |
| 631 | 257620.51 | 4084752.24 | 0.00001983 3 | 2.87E-04 | 2.11E-04 | 2.11E-04 | 1.18E-04 | 3.01E-06 | 4.37E-05 | 3.30E-05 | 3.30E-05 | 1.81E-05 | 1.63E-06 | 2.36E-05 | 1.47E-05 | 1.47E-05 | 7.27E-06 |
| 632 | 257596.18 | 4084753.24 | 0.00001786 2 | 2.58E-04 | 1.90E-04 | 1.90E-04 | 1.06E-04 | 2.71E-05 | 3.94E-05 | 2.97E-05 | 2.97E-05 | 1.63E-05 | 1.47E-06 | 2.13E-05 | 1.32E-05 | 1.32E-06 | 6.55E-06 |
| 633 | 257571.85 | 4084754.24 | 0.00001623 3 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.65E-05 | 2.46E-06 | 3.58E-05 | 2.70E-05 | 2.70E-05 | 1.49E-05 | 1.34E-06 | 1.94E-05 | 1.20E-05 | 1.20E-05 | 5.95E-06 |
| 634 | 257547.51 | 4084755.24 | 0.00001487 | 2.15E-04 | 1.59E-04 | 1.59E-04 | 8.84E-05 | 2.26E-06 | 3.28E-05 | 2.48E-05 | 2.48E-05 | 1.36E-05 | 1.23E-06 | 1.77E-05 | 1.10E-05 | 1.10E-05 | 5.45E-06 |
| 635 | 258371 | 4084680.64 | 0.00008868 1 | 1.28E-03 | 9.45E-04 | 9.45E-04 | 5.27E-04 | 1.35E-05 | 1.95E-04 | 1.48E-04 | 1.48E-04 | 8.12E-05 | 7.31E-06 | 1.06E-04 | 6.57E-06 | 6.57E-05 | 3.25E-06 |
| 636 | 258393.59 | 4084689 | 0.00009276 3 | 1.34E-03 | 9.89E-04 | 9.89E-04 | 5.51E-04 | 1.41E-05 | 2.04E-04 | 1.54E-04 | 1.54E-04 | 6.49E-06 | 7.65E-06 | 1.11E-04 | 6.87E-06 | 6.87E-05 | 3.40E-05 |
| 637 | 258416.18 | 4084697.36 | 0.00009659 2 | 1.40E-03 | 1.03E-03 | 1.03E-05 | 5.74E-04 | 1.47E-05 | 2.13E-04 | 1.61E-04 | 1.61E-04 | 8.84E-06 | 7.96E-06 | 1.15E-04 | 7.15E-05 | 7.15E-05 | 3.54E-05 |
| 638 | 258438.77 | 4084705.73 | 0.00010001 | 1.45E-03 | 1.07E-03 | 1.07E-03 | 5.94E-04 | 1.52E-05 | 2.20E-04 | 1.66E-04 | 1.66E-04 | 9.15E-05 | 8.24E-06 | 1.19E-04 | 7.41E-05 | 7.41E-05 | 3.67E-05 |
| 639 | 258461.37 | 4084714.09 | 0.00010279 | 1.49E-03 | 1.10E-03 | 1.10E-03 | 6.11E-04 | 1.56E-05 | 2.26E-04 | 1.71E-04 | 1.71E-04 | 9.41E-05 | 8.47E-06 | 1.25E-04 | 7.61E-05 | 7.61E-05 | 3.77E-05 |
| 640 | 258483.96 | 4084732.46 | 0.00010466 | 1.51E-03 | 1.12E-03 | 1.12E-03 | 6.27E-04 | 1.59E-05 | 2.31E-04 | 1.74E-04 | 1.74E-04 | 9.58E-06 | 8.65E-06 | 1.25E-04 | 7.75E-05 | 7.75E-05 | 3.84E-05 |
| 641 | 258506.55 | 4084730.82 | 0.00010531 | 1.52E-03 | 1.12E-03 | 1.12E-03 | 6.26E-04 | 1.60E-05 | 2.32E-04 | 1.75E-04 | 1.75E-04 | 9.64E-05 | 8.68E-06 | 1.26E-04 | 7.80E-05 | 7.80E-05 | 3.86E-05 |
| 642 | 258539.07 | 4084761.13 | 0.00011051 | 1.60E-03 | 1.18E-03 | 1.18E-03 | 6.57E-04 | 1.68E-05 | 2.44E-04 | 1.84E-04 | 1.84E-04 | 1.01E-04 | 9.11E-06 | 1.32E-04 | 8.18E-05 | 8.18E-05 | 4.05E-05 |
| 643 | 258549 | 4084783.08 | 0.00011468 | 1.66E-03 | 1.22E-03 | 1.22E-03 | 6.82E-04 | 1.74E-05 | 2.53E-04 | 1.91E-04 | 1.91E-04 | 1.05E-04 | 9.45E-06 | 1.37E-04 | 8.49E-05 | 8.49E-05 | 4.20E-05 |
| 644 | 258558.93 | 4084805.03 | 0.00011666 | 1.69E-03 | 1.24E-03 | 1.24E-03 | 6.93E-04 | 1.77E-05 | 2.57E-04 | 1.94E-04 | 1.94E-04 | 1.07E-04 | 9.62E-06 | 1.39E-04 | 8.64E-05 | 8.64E-05 | 4.28E-05 |
| 645 | 258568.86 | 4084826.98 | 0.0001162 | 1.68E-03 | 1.24E-03 | 1.24E-03 | 6.91E-04 | 1.76E-05 | 2.56E-04 | 1.93E-04 | 1.93E-04 | 1.06E-04 | 9.58E-06 | 1.39E-04 | 6.61E-05 | 8.61E-05 | 4.26E-06 |
| 646 | 258578.79 | 4084848.92 | 0.00011295 | 1.63E-03 | 1.20E-03 | 1.20E-03 | 6.71E-04 | 1.71E-05 | 2.49E-04 | 1.88E-04 | 1.88E-04 | 1.03E-04 | 9.31E-06 | 1.35E-04 | 8.36E-05 | 8.36E-05 | 4.14E-05 |
| 647 | 258588.71 | 4084870.87 | 0.00010718 | 1.55E-03 | 1.14E-03 | 1.14E-03 | 6.37E-04 | 1.63E-05 | 2.36E-04 | 1.78E-04 | 1.78E-04 | 9.81E-06 | 8.83E-06 | 1.28E-04 | 7.94E-05 | 7.94E-05 | 3.93E-05 |
| 648 | 258598.64 | 4084892.82 | 0.00009945 5 | 1.44E-03 | 1.06E-03 | 1.06E-03 | 5.91E-04 | 1.51E-05 | 2.19E-04 | 1.66E-04 | 1.66E-04 | 9.10E-06 | 8.20E-06 | 1.19E-04 | 7.37E-05 | 7.37E-05 | 3.65E-05 |
| 649 | 258348.41 | 4084672.27 | 0.00008444 5 | 1.22E-03 | 9.00E-04 | 9.00E-04 | 5.02E-04 | 1.28E-05 | 1.86E-04 | 1.41E-04 | 1.41E-04 | 7.73E-05 | 6.96E-06 | 1.01E-04 | 6.25E-06 | 6.25E-05 | 3.10E-05 |
| 650 | 258324.08 | 4084673.27 | 0.00008408 3 | 1.22E-03 | 8.96E-04 | 8.96E-04 | 5.00E-04 | 1.28E-05 | 1.85E-04 | 1.40E-04 | 1.40E-04 | 7.69E-06 | 6.93E-06 | 1.00E-04 | 6.25E-06 | 6.23E-05 | 3.08E-05 |
| 651 | 258299.75 | 4084674.27 | 0.00008350 1 | 1.21E-03 | 8.90E-04 | 8.90E-04 | 4.96E-04 | 1.27E-05 | 1.84E-04 | 1.39E-04 | 1.39E-04 | 7.64E-05 | 6.88E-06 | 9.96E-05 | 6.18E-05 | 6.18E-05 | 3.06E-05 |
| 652 | 258275.42 | 4084675.27 | 0.00008270 8 | 1.20E-03 | 8.82E-04 | 8.82E-04 | 4.92E-04 | 1.26E-05 | 1.82E-04 | 1.38E-04 | 1.38E-04 | 7.57E-05 | 6.82E-06 | 9.86E-05 | 6.13E-05 | 6.13E-05 | 3.03E-05 |
| 653 | 258251.08 | 4084676.27 | 0.00008171 4 | 1.18E-03 | 8.71E-04 | 8.71E-04 | 4.86E-04 | 1.24E-05 | 1.80E-04 | 1.36E-04 | 1.36E-04 | 7.48E-05 | 6.74E-06 | 9.74E-05 | 6.05E-05 | 6.05E-05 | 3.00E-05 |
| 654 | 258226.75 | 4084677.27 | 0.00008052 9 | 1.16E-03 | 8.58E-04 | 8.56E-04 | 4.79E-04 | 1.22E-05 | 1.77E-04 | 1.34E-04 | 1.34E-04 | 7.37E-05 | 6.64E-06 | 9.60E-05 | 5.96E-05 | 5.96E-05 | 2.95E-05 |
| 655 | 258202.42 | 4084678.27 | 0.00007916 7 | 1.15E-03 | 8.44E-04 | 8.44E-04 | 4.71E-04 | 1.20E-05 | 1.74E-04 | 1.32E-04 | 1.32E-04 | 7.24E-06 | 6.53E-06 | 9.44E-05 | 5.86E-06 | 5.86E-06 | 2.90E-05 |
| 656 | 258178.09 | 4084679.27 | 0.00007762 4 | 1.12E-03 | 8.28E-04 | 8.26E-04 | 4.61E-04 | 1.18E-05 | 1.71E-04 | 1.29E-04 | 1.29E-04 | 7.10E-05 | 6.40E-06 | 9.25E-05 | 5.75E-06 | 5.75E-06 | 2.85E-05 |
| 657 | 258153.76 | 4084680.27 | 0.00007589 8 | 1.10E-03 | 8.09E-04 | 8.09E-04 | 4.51E-04 | 1.15E-05 | 1.67E-04 | 1.26E-04 | 1.26E-04 | 6.95E-06 | 6.26E-06 | 9.05E-05 | 5.62E-05 | 5.62E-05 | 2.78E-05 |
| 658 | 258129.42 | 4084681.27 | 0.00007398 3 | 1.07E-03 | 7.89E-04 | 7.89E-04 | 4.40E-04 | 1.12E-05 | 1.63E-04 | 1.23E-04 | 1.23E-04 | 6.77E-06 | 6.10E-06 | 6.82E-05 | 5.48E-05 | 5.48E-05 | 2.71E-05 |
| 659 | 258105.09 | 4084682.27 | 0.00007187 | 1.04E-03 | 7.66E-04 | 7.66E-04 | 4.27E-04 | 1.09E-05 | 1.58E-04 | 1.20E-04 | 1.20E-04 | 6.58E-05 | 5.92E-06 | 8.57E-05 | 5.32E-05 | 5.32E-05 | 2.63E-05 |
| 660 | 258080.76 | 4084683.27 | 0.00006955 9 | 1.01E-03 | 7.42E-04 | 7.42E-04 | 4.13E-04 | 1.06E-05 | 1.53E-04 | 1.16E-04 | 1.16E-04 | 6.37E-05 | 5.73E-06 | 8.29E-05 | 5.15E-05 | 5.15E-05 | 2.55E-05 |
| 661 | 258056.43 | 4084684.27 | 0.00006704 6 | 9.70E-04 | 7.15E-04 | 7.15E-04 | 3.98E-04 | 1.02E-05 | 1.48E-04 | 1.12E-04 | 1.12E-04 | 6.14E-05 | 5.53E-06 | 7.99E-05 | 4.97E-05 | 4.97E-05 | 2.46E-05 |
| 662 | 258032.1 | 4084685.27 | 0.00006433 3 | 9.30E-04 | 6.86E-04 | 6.86E-04 | 3.82E-04 | 9.76E-06 | 1.42E-04 | 1.07E-04 | 1.07E-04 | 5.89E-05 | 5.30E-06 | 7.67E-05 | 4.76E-05 | 4.76E-05 | 2.36E-05 |
| 663 | 258007.77 | 4084686.28 | 0.00006143 | 8.88E-04 | 6.55E-04 | 6.55E-04 | 3.65E-04 | 9.32E-06 | 1.35E-04 | 1.02E-04 | 1.02E-04 | 5.62E-05 | 5.06E-06 | 7.32E-05 | 4.55E-06 | 4.55E-06 | 2.25E-05 |
| 664 | 257983.43 | 4084687.28 | 0.00005834 | 8.44E-04 | 6.12E-04 | 6.22E-04 | 3.47E-04 | 8.85E-06 | 1.29E-04 | 9.71E-05 | 9.71E-05 | 5.34E-05 | 4.81E-06 | 6.95E-05 | 4.32E-05 | 4.32E-05 | 2.14E-06 |
| 665 | 257959.1 | 4084688.28 | 0.00005509 4 | 7.97E-04 | 5.87E-04 | 5.87E-04 | 3.27E-04 | 8.36E-06 | 1.21E-04 | 9.17E-05 | 9.17E-05 | 5.04E-05 | 4.54E-06 | 6.57E-05 | 4.08E-05 | 4.08E-05 | 2.02E-05 |
| 666 | 257934.77 | 4084689.28 | 0.00005168 6 | 7.48E-04 | 5.51E-04 | 5.51E-04 | 3.07E-04 | 7.84E-06 | 1.14E-04 | 8.60E-05 | 8.60E-05 | 4.73E-05 | 4.25E-06 | 6.16E-05 | 3.83E-05 | 3.83E-05 | 1.89E-05 |
| 667 | 257910.44 | 4084690.28 | 0.00004814 3 | 6.96E-04 | 5.13E-04 | 5.13E-04 | 2.86E-04 | 7.31E-06 | 1.06E-04 | 6.01E-05 | 6.01E-05 | 4.41E-05 | 3.97E-06 | 5.74E-06 | 3.57E-05 | 3.57E-05 | 1.76E-05 |
| 668 | 257886.11 | 4084691.28 | 0.00004452 1 | 6.44E-04 | 4.75E-04 | 4.75E-04 | 2.65E-04 | 6.76E-06 | 9.81E-05 | 7.41E-05 | 7.41E-06 | 4.07E-05 | 3.67E-06 | 5.31E-05 | 3.30E-06 | 3.30E-05 | 1.63E-05 |
| 669 | 257861.77 | 4084692.28 | 0.00004087 1 | 5.91E-04 | 4.36E-04 | 4.36E-04 | 2.43E-04 | 6.20E-06 | 9.01E-05 | 6.80E-05 | 6.80E-05 | 3.74E-05 | 3.37E-06 | 4.87E-05 | 3.03E-05 | 3.03E-05 | 1.50E-05 |
| 670 | 257837.44 | 4084893.28 | 0.00003725 7 | 5.39E-04 | 3.97E-04 | 3.97E-04 | 2.21E-04 | 5.65E-06 | 8.21E-05 | 6.20E-06 | 6.20E-05 | 3.41E-05 | 3.07E-06 | 4.44E-05 | 2.76E-05 | 2.76E-05 | 1.37E-05 |
| 671 | 257813.11 | 4084694.28 | 0.00003374 | 4.88E-04 | 3.60E-04 | 3.60E-04 | 2.01E-04 | 5.12E-06 | 7.43E-05 | 5.62E-05 | 5.62E-05 | 3.09E-05 | 2.78E-06 | 4.02E-05 | 2.50E-05 | 2.50E-05 | 1.24E-05 |
| 672 | 257788.78 | 4084695.28 | 0.00003039 | 4.40E-04 | 3.24E-04 | 3.24E-04 | 1.81E-04 | 4.61E-06 | 6.70E-05 | 5.06E-05 | 5.06E-05 | 2.78E-05 | 2.51E-06 | 3.62E-05 | 2.25E-05 | 2.25E-06 | 1.11E-05 |
| 673 | 257764.45 | 4084696.28 | 0.00002726 7 | 3.94E-04 | 2.91E-04 | 2.91E-04 | 1.62E-04 | 4.14E-06 | 8.01E-05 | 4.54E-05 | 4.54E-05 | 2.50E-05 | 2.25E-05 | 3.25E-05 | 2.02E-06 | 2.02E-05 | 1.00E-05 |
| 674 | 257740.12 | 4084697.28 | 0.00002441 7 | 3.53E-04 | 2.60E-04 | 2.60E-04 | 1.45E-04 | 3.71E-06 | 5.38E-05 | 4.06E-05 | 4.06E-06 | 2.23E-05 | 2.01E-06 | 2.91E-06 | 1.81E-05 | 1.81E-06 | 6.95E-06 |
| 675 | 257715.78 | 4084698.28 | 0.00002187 | 3.16E-04 | 2.33E-04 | 2.33E-04 | 1.30E-04 | 3.32E-06 | 4.82E-05 | 3.64E-05 | 3.64E-06 | 2.00E-05 | 1.80E-05 | 2.61E-05 | 1.62E-05 | 1.62E-05 | 8.02E-06 |
| 676 | 257691.45 | 4084699.28 | 0.00001963 6 | 2.84E-04 | 2.09E-04 | 2.09E-04 | 1.17E-04 | 2.98E-06 | 4.33E-05 | 3.27E-05 | 3.27E-05 | 1.80E-05 | 1.62E-06 | 2.34E-05 | 1.45E-05 | 1.45E-05 | 7.20E-06 |
| 677 | 257667.12 | 4084700.28 | 0.00001771 | 2.56E-04 | 1.89E-04 | 1.89E-04 | 1.05E-04 | 2.69E-06 | 3.90E-05 | 2.95E-05 | 2.95E-05 | 1.62E-05 | 1.46E-06 | 2.11E-05 | 1.31E-05 | 1.31E-05 | 6.49E-06 |
| 678 | 257642.79 | 4084701.28 | 0.00001606 5 | 2.32E-04 | 1.71E-04 | 1.71E-04 | 9.55E-05 | 2.44E-06 | 3.54E-05 | 2.67E-05 | 2.67E-05 | 1.47E-05 | 1.32E-06 | 1.92E-05 | 1.19E-05 | 1.19E-05 | 5.89E-06 |
| 679 | 257618.46 | 4084702.28 | 0.00001466 7 | 2.12E-04 | 1.56E-04 | 1.56E-04 | 8.72E-05 | 2.23E-06 | 3.23E-05 | 2.44E-05 | 2.44E-06 | 1.34E-05 | 1.21E-06 | 1.75E-05 | 1.05E-05 | 1.09E-05 | 5.38E-06 |
| 680 | 257594.12 | 4084703.28 | 0.00001347 7 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.01E-05 | 2.05E-06 | 2.97E-05 | 2.24E-05 | 2.24E-05 | 1.25E-05 | 1.11E-06 | 1.61E-05 | 9.98E-06 | 9.98E-06 | 4.94E-06 |
| 681 | 257569.79 | 4084704.28 | 0.00001245 8 | 1.80E-04 | 1.33E-04 | 1.33E-04 | 7.40E-05 | 1.89E-05 | 2.75E-05 | 2.07E-05 | 2.07E-05 | 1.14E-06 | 1.03E-05 | 1.49E-05 | 9.23E-06 | 9.23E-06 | 4.57E-06 |
| 682 | 257545.46 | 4084705.28 | 0.00001158 1 | 1.66E-04 | 1.25E-04 | 1.25E-04 | 6.88E-05 | 1.76E-06 | 2.55E-05 | 1.93E-05 | 1.93E-06 | 1.06E-05 | 9.55E-07 | 1.38E-05 | 8.58E-06 | 8.58E-06 | 4.25E-06 |
| 683 | 258368.04 | 4084630.34 | 0.00006907 5 | 9.99E-04 | 7.36E-04 | 7.36E-04 | 4.11E-04 | 1.05E-05 | 1.52E-04 | 1.15E-04 | 1.15E-04 | 6.32E-05 | 5.69E-06 | 8.24E-05 | 5.12E-05 | 5.12E-05 | 2.53E-05 |
| 684 | 258389.73 | 4084638.37 | 0.00007231 7 | 1.05E-03 | 7.71E-04 | 7.71E-04 | 4.30E-04 | 1.10E-05 | 1.59E-04 | 1.20E-04 | 1.20E-04 | 6.62E-05 | 5.96E-06 | 8.62E-05 | 5.36E-05 | 5.36E-05 | 2.65E-05 |
| 685 | 258411.42 | 4084646.4 | 0.00007543 3 | 1.09E-03 | 8.04E-04 | 8.04E-04 | 4.48E-04 | 1.14E-05 | 1.66E-04 | 1.26E-04 | 1.26E-04 | 6.90E-05 | 6.22E-06 | 8.99E-05 | 5.59E-05 | 5.59E-05 | 2.77E-05 |
| 686 | 258433.11 | 4084654.43 | 0.00007836 8 | 1.13E-03 | 6.35E-04 | 8.35E-04 | 4.66E-04 | 1.19E-05 | 1.73E-04 | 1.30E-04 | 1.30E-04 | 7.17E-05 | 6.46E-06 | 9.34E-05 | 5.80E-05 | 5.80E-05 | 2.87E-05 |
| 687 | 258454.79 | 4084662.46 | 0.00008103 4 | 1.17E-03 | 8.64E-04 | 8.64E-04 | 4.82E-04 | 1.25E-05 | 1.79E-04 | 1.35E-04 | 1.35E-04 | 7.42E-05 | 6.68E-06 | 9.66E-05 | 6.00E-05 | 6.00E-05 | 2.97E-05 |
| 688 | 258476.48 | 4084670.49 | 0.00008332 | 1.21E-03 | 8.88E-04 | 8.88E-04 | 4.95E-04 | 1.26E-05 | 1.84E-04 | 1.39E-04 | 1.39E-04 | 7.62E-05 | 6.87E-06 | 9.91E-05 | 8.17E-05 | 6.17E-05 | 3.05E-05 |
| 689 | 258498.17 | 4084678.52 | 0.00008509 3 | 1.23E-03 | 9.07E-04 | 9.07E-04 | 5.06E-04 | 1.29E-05 | 1.87E-04 | 1.42E-04 | 1.42E-04 | 7.79E-05 | 7.01E-06 | 1.01E-04 | 6.30E-05 | 6.30E-05 | 3.12E-05 |
| 690 | 258519.86 | 4084686.55 | 0.00008620 3 | 1.25E-03 | 9.19E-04 | 9.19E-04 | 5.12E-04 | 1.31E-05 | 1.90E-04 | 1.43E-04 | 1.43E-04 | 7.89E-05 | 7.11E-06 | 1.03E-04 | 6.38E-05 | 6.38E-05 | 3.16E-05 |
| 691 | 258541.54 | 4084694.58 | 0.00008651 3 | 1.25E-03 | 9.22E-04 | 9.12E-04 | 5.14E-04 | 1.31E-06 | 1.91E-04 | 1.44E-04 | 1.44E-04 | 7.92E-05 | 7.13E-06 | 1.03E-04 | 6.41E-05 | 6.41E-05 | 3.17E-05 |
| 692 | 258572.76 | 4084723.68 | 0.00009015 | 1.30E-03 | 9.61E-04 | 9.61E-04 | 5.36E-04 | 1.37E-05 | 1.99E-04 | 1.50E-04 | 1.50E-04 | 8.25E-06 | 7.43E-06 | 1.07E-04 | 8.68E-05 | 6.68E-05 | 3.30E-05 |
| 693 | 258582.29 | 4084744.75 | 0.00009345 3 | 1.35E-03 | 9.96E-04 | 9.96E-04 | 5.55E-04 | 1.42E-05 | 2.06E-04 | 1.56E-04 | 1.56E-04 | 6.55E-05 | 7.70E-06 | 1.11E-04 | 8.92E-05 | 6.92E-05 | 3.43E-05 |
| 694 | 258591.65 | 4084765.82 | 0.00009511 1 | 1.38E-03 | 1.01E-03 | 1.01E-05 | 5.65E-04 | 1.44E-05 | 2.10E-04 | 1.58E-04 | 1.58E-04 | 8.70E-06 | 7.84E-06 | 1.13E-04 | 7.04E-05 | 7.04E-05 | 3.49E-06 |
| 695 | 258601.36 | 4084786.89 | 0.00009557 | 1.38E-03 | 1.02E-03 | 1.02E-05 | 5.68E-04 | 1.45E-05 | 2.11E-04 | 1.59E-04 | 1.59E-04 | 8.75E-05 | 7.88E-06 | 1.14E-04 | 7.08E-05 | 7.08E-05 | 3.50E-05 |
| 696 | 258610.89 | 4084807.96 | 0.00009432 2 | 1.36E-03 | 1.01E-05 | 1.01E-03 | 5.61E-04 | 1.43E-05 | 2.08E-04 | 1.57E-04 | 1.57E-04 | 8.65E-05 | 7.77E-06 | 1.12E-04 | 6.99E-05 | 6.99E-05 | 3.46E-05 |
| 697 | 258620.42 | 4084829.03 | 0.00009138 8 | 1.32E-03 | 9.74E-04 | 9.74E-04 | 5.43E-04 | 1.39E-05 | 2.01E-04 | 1.52E-04 | 1.52E-04 | 8.36E-05 | 7.53E-06 | 1.09E-04 | 6.77E-05 | 6.77E-05 | 3.35E-05 |
| 698 | 258629.96 | 4084850.1 | 0.00008695 5 | 1.26E-03 | 9.27E-04 | 9.27E-04 | 5.17E-04 | 1.32E-05 | 1.92E-04 | 1.45E-04 | 1.45E-04 | 7.96E-05 | 7.17E-06 | 1.04E-04 | 6.44E-05 | 6.44E-05 | 3.19E-05 |
| 699 | 258639.49 | 4084871.17 | 0.00008135 5 | 1.18E-03 | 8.67E-04 | 6.67E-04 | 4.84E-04 | 1.23E-05 | 1.79E-04 | 1.35E-04 | 1.35E-04 | 7.44E-05 | 6.71E-06 | 9.70E-05 | 6.02E-05 | 6.02E-05 | 2.98E-05 |
| 700 | 258649.02 | 4084892.24 | 0.00007498 5 | 1.08E-03 | 7.99E-04 | 7.99E-04 | 4.46E-04 | 1.14E-05 | 1.65E-04 | 1.25E-04 | 1.25E-04 | 6.86E-05 | 6.16E-06 | 8.94E-05 | 5.55E-05 | 5.55E-05 | 2.75E-05 |
| 701 | 258346.36 | 4084622.31 | 0.00006575 8 | 9.51E-04 | 7.01E-04 | 7.01E-04 | 3.91E-04 | 9.98E-06 | 1.45E-04 | 1.09E-04 | 1.09E-04 | 6.02E-05 | 5.42E-06 | 7.84E-06 | 4.87E-05 | 4.87E-05 | 2.41E-05 |
| 702 | 258322.03 | 4084623.31 | 0.00006511 | 9.42E-04 | 6.94E-04 | 6.94E-04 | 3.87E-04 | 9.88E-06 | 1.43E-04 | 1.08E-04 | 1.08E-04 | 5.96E-05 | 5.37E-06 | 7.76E-05 | 4.82E-05 | 4.82E-05 | 2.39E-06 |
| 703 | 258297.69 | 4084624.31 | 0.00006432 3 | 9.30E-04 | 6.85E-04 | 6.66E-04 | 3.82E-04 | 9.76E-06 | 1.42E-04 | 1.07E-04 | 1.07E-04 | 5.89E-05 | 5.30E-06 | 7.67E-05 | 4.76E-05 | 4.76E-05 | 2.36E-05 |
| 704 | 258273.36 | 4084625.31 | 0.00006338 3 | 9.17E-04 | 6.76E-04 | 6.76E-04 | 3.77E-04 | 9.62E-06 | 1.40E-04 | 1.06E-04 | 1.06E-04 | 5.82E-05 | 5.22E-06 | 7.56E-05 | 4.69E-05 | 4.69E-05 | 2.32E-05 |
| 705 | 258249.03 | 4084626.31 | 0.00006225 4 | 9.00E-04 | 6.64E-04 | 6.64E-04 | 3.70E-04 | 9.45E-06 | 1.37E-04 | 1.04E-04 | 1.04E-04 | 5.70E-05 | 5.13E-06 | 7.42E-05 | 4.81E-05 | 4.61E-05 | 2.28E-05 |
| 706 | 258224.7 | 4084627.31 | 0.00006101 8 | 8.83E-04 | 6.50E-04 | 6.50E-04 | 3.65E-04 | 9.26E-06 | 1.34E-04 | 1.02E-04 | 1.02E-04 | 5.58E-05 | 5.03E-06 | 7.27E-05 | 4.52E-05 | 4.52E-05 | 2.24E-05 |
| 707 | 258200.37 | 4084628.32 | 0.00005961 2 | 8.62E-04 | 6.35E-04 | 6.35E-04 | 3.54E-04 | 9.05E-06 | 1.31E-04 | 9.92E-05 | 9.92E-05 | 5.46E-05 | 4.91E-06 | 7.11E-05 | 4.41E-05 | 4.41E-05 | 2.19E-05 |
| 708 | 258176.03 | 4084629.32 | 0.00005805 5 | 8.40E-04 | 6.19E-04 | 6.19E-04 | 3.45E-04 | 8.81E-06 | 1.28E-04 | 9.66E-05 | 9.66E-05 | 5.31E-05 | 4.79E-06 | 6.92E-05 | 4.30E-05 | 4.30E-05 | 2.13E-05 |
| 709 | 25815 1.7 | 4084630.32 | 0.00005636 | 8.15E-04 | 6.01E-04 | 6.01E-04 | 3.35E-04 | 8.55E-06 | 1.24E-04 | 9.38E-05 | 9.36E-05 | 5.16E-05 | 4.65E-06 | 6.72E-06 | 4.17E-05 | 4.17E-05 | 2.07E-05 |
| 710 | 258127.37 | 4084631.32 | 0.00005453 1 | 7.89E-04 | 5.81E-04 | 5.81E-04 | 3.24E-04 | 8.28E-06 | 1.20E-04 | 9.08E-06 | 9.08E-05 | 4.99E-05 | 4.49E-06 | 6.50E-05 | 4.04E-05 | 4.04E-05 | 2.00E-05 |
| 711 | 258103.04 | 4084632.32 | 0.00005251 2 | 7.60E-04 | 5.50E-04 | 5.60E-04 | 3.12E-04 | 7.97E-06 | 1.16E-04 | 6.74E-05 | 6.74E-05 | 4.61E-06 | 4.33E-06 | 6.26E-05 | 3.89E-05 | 3.89E-05 | 1.92E-05 |
| 712 | 258078.71 | 4084633.32 | 0.00005040 6 | 7.29E-04 | 5.37E-04 | 5.37E-04 | 3.00E-04 | 7.65E-06 | 1.11E-04 | 8.39E-05 | 8.39E-05 | 4.81E-06 | 4.15E-06 | 6.01E-05 | 3.73E-05 | 3.73E-05 | 1.85E-05 |
| 713 | 258054.38 | 4084634.32 | 0.00004817 8 | 6.97E-04 | 5.14E-04 | 5.14E-04 | 2.86E-04 | 7.31E-06 | 1.06E-04 | 6.02E-06 | 6.02E-06 | 4.41E-05 | 3.97E-06 | 5.74E-05 | 3.57E-06 | 3.57E-05 | 1.77E-05 |
| 714 | 258030.04 | 4084635.32 | 0.00004585 3 | 6.63E-04 | 4.89E-04 | 4.89E-04 | 2.73E-04 | 6.96E-06 | 1.01E-04 | 7.63E-05 | 7.63E-06 | 4.20E-05 | 3.78E-06 | 5.47E-05 | 3.40E-05 | 3.40E-05 | 1.68E-05 |
| 715 | 258005.71 | 4084636.32 | 0.00004344 9 | 6.26E-04 | 4.63E-04 | 4.63E-04 | 2.58E-04 | 6.59E-06 | 9.57E-05 | 7.23E-05 | 7.25E-05 | 3.98E-05 | 3.58E-06 | 5.18E-05 | 3.22E-05 | 3.22E-05 | 1.59E-05 |
| 716 | 257981.38 | 4084637.32 | 0.00004091 6 | 5.92E-04 | 4.36E-04 | 4.36E-04 | 2.43E-04 | 6.21E-06 | 9.02E-06 | 6.81E-05 | 6.81E-05 | 3.74E-05 | 3.37E-06 | 4.88E-05 | 3.03E-05 | 3.03E-05 | 1.50E-05 |
| 717 | 257957.05 | 4084638.32 | 0.00003832 | 5.54E-04 | 4.09E-04 | 4.09E-04 | 2.28E-04 | 5.82E-06 | 8.44E-05 | 6.38E-05 | 6.38E-05 

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 699 | 257990.62 | 4084862.13 | 2.64E-04 | 3.82E-03 | 2.82E-03 | 2.82E-03 | 1.57E-03 | 4.01E-05 | 5.82E-04 | 4.40E-04 | 4.40E-04 | 2.42E-04 | 2.16E-05 | 3.15E-04 | 1.96E-04 | 1.96E-04 | 9.69E-05 |
| 700 | 257966.29 | 4084862.13 | 2.60E-04 | 3.76E-03 | 2.77E-03 | 2.77E-03 | 1.54E-03 | 3.94E-05 | 5.73E-04 | 4.33E-04 | 4.33E-04 | 2.38E-04 | 2.14E-05 | 3.10E-04 | 1.92E-04 | 1.92E-04 | 9.53E-05 |
| 701 | 257941.96 | 4084864.13 | 2.55E-04 | 3.68E-03 | 2.72E-03 | 2.72E-03 | 1.51E-03 | 3.87E-05 | 5.61E-04 | 4.24E-04 | 4.24E-04 | 2.33E-04 | 2.10E-05 | 3.04E-04 | 1.89E-04 | 1.89E-04 | 9.34E-05 |
| 702 | 257917.63 | 4084865.13 | 2.49E-04 | 3.60E-05 | 2.65E-05 | 2.65E-03 | 1.48E-03 | 3.77E-05 | 5.48E-04 | 4.14E-04 | 4.14E-04 | 2.28E-04 | 2.05E-05 | 2.96E-04 | 1.84E-04 | 1.84E-04 | 9.11E-05 |
| 703 | 257893.29 | 4084866.13 | 2.42E-04 | 3.49E-03 | 2.58E-03 | 2.58E-03 | 1.44E-03 | 3.67E-05 | 5.32E-04 | 4.02E-04 | 4.02E-04 | 2.21E-04 | 1.99E-05 | 2.88E-04 | 1.79E-04 | 1.79E-04 | 8.85E-05 |
| 704 | 257868.96 | 4084867.13 | 2.33E-04 | 3.38E-03 | 2.49E-03 | 2.49E-03 | 1.39E-03 | 3.54E-05 | 5.14E-04 | 3.88E-04 | 3.88E-04 | 2.14E-04 | 1.92E-05 | 2.78E-04 | 1.73E-04 | 1.73E-04 | 8.55E-05 |
| 705 | 257844.63 | 4084868.13 | 2.24E-04 | 3.24E-03 | 2.39E-03 | 2.39E-03 | 1.33E-03 | 3.40E-05 | 4.93E-04 | 3.73E-04 | 3.73E-04 | 2.05E-04 | 1.85E-05 | 2.67E-04 | 1.66E-04 | 1.66E-04 | 8.21E-05 |
| 706 | 257820.3 | 4084869.13 | 2.13E-04 | 3.08E-03 | 2.27E-03 | 2.27E-03 | 1.27E-05 | 3.23E-05 | 4.69E-04 | 3.54E-04 | 3.54E-04 | 1.95E-04 | 1.76E-05 | 2.54E-04 | 1.58E-04 | 1.58E-04 | 7.81E-05 |
| 707 | 257795.97 | 4084870.13 | 2.00E-04 | 2.90E-03 | 2.14E-03 | 2.14E-03 | 1.19E-03 | 3.04E-05 | 4.42E-04 | 3.34E-04 | 3.34E-04 | 1.83E-04 | 1.65E-05 | 2.39E-04 | 1.48E-04 | 1.48E-04 | 7.35E-05 |
| 708 | 257771.64 | 4084871.25 | 1.86E-04 | 2.69E-03 | 1.98E-03 | 1.98E-03 | 1.13E-03 | 2.83E-05 | 4.10E-04 | 3.10E-04 | 3.10E-04 | 1.70E-04 | 1.53E-05 | 2.22E-04 | 1.38E-04 | 1.38E-04 | 6.82E-05 |
| 709 | 257747.3 | 4084872.13 | 1.70E-04 | 2.46E-03 | 1.81E-03 | 1.81E-03 | 1.01E-03 | 2.58E-05 | 3.75E-04 | 2.83E-04 | 2.83E-04 | 1.56E-04 | 1.40E-05 | 2.03E-04 | 1.26E-04 | 1.26E-04 | 6.23E-05 |
| 710 | 257722.97 | 4084873.13 | 1.52E-04 | 2.20E-03 | 1.62E-03 | 1.62E-03 | 9.04E-04 | 2.31E-05 | 3.35E-04 | 2.53E-04 | 2.53E-04 | 1.39E-04 | 1.25E-05 | 1.81E-04 | 1.13E-04 | 1.13E-04 | 5.57E-05 |
| 711 | 257698.64 | 4084874.13 | 1.32E-04 | 1.92E-03 | 1.41E-03 | 1.41E-03 | 7.87E-04 | 2.01E-05 | 2.92E-04 | 2.20E-04 | 2.20E-04 | 1.21E-04 | 1.09E-05 | 1.58E-04 | 9.81E-05 | 9.81E-05 | 4.85E-05 |
| 712 | 257674.31 | 4084875.13 | 1.12E-04 | 1.61E-03 | 1.19E-03 | 1.19E-03 | 6.63E-04 | 1.69E-05 | 2.46E-04 | 1.86E-04 | 1.86E-04 | 1.02E-04 | 9.19E-06 | 1.33E-04 | 8.26E-05 | 8.26E-05 | 4.09E-05 |
| 713 | 257649.98 | 4084878.15 | 9.05E-05 | 1.31E-03 | 9.65E-04 | 9.65E-04 | 5.38E-04 | 1.37E-05 | 1.99E-04 | 1.51E-04 | 1.51E-04 | 8.28E-05 | 7.48E-06 | 1.08E-04 | 6.70E-06 | 8.70E-05 | 3.32E-06 |
| 714 | 257625.64 | 4084877.25 | 7.10E-05 | 1.03E-03 | 7.57E-04 | 7.57E-04 | 4.22E-04 | 1.08E-05 | 1.57E-04 | 1.16E-04 | 1.18E-04 | 8.50E-05 | 5.66E-06 | 8.47E-05 | 5.26E-05 | 5.26E-05 | 2.60E-05 |
| 715 | 257601.31 | 4084878.15 | 5.52E-05 | 7.98E-04 | 5.88E-04 | 5.88E-04 | 3.28E-04 | 8.37E-05 | 1.22E-04 | 9.18E-05 | 9.18E-05 | 5.05E-05 | 4.55E-06 | 6.58E-05 | 4.08E-05 | 4.08E-05 | 2.02E-05 |
| 716 | 257576.98 | 4084879.13 | 4.39E-05 | 6.35E-04 | 4.68E-04 | 4.68E-04 | 2.61E-04 | 6.66E-05 | 9.67E-05 | 7.31E-05 | 7.31E-05 | 4.02E-05 | 3.62E-05 | 5.23E-05 | 3.25E-05 | 3.25E-05 | 1.61E-05 |
| 717 | 257552.65 | 4084880.13 | 3.64E-05 | 5.27E-04 | 3.88E-04 | 3.88E-04 | 2.17E-04 | 5.53E-05 | 8.03E-05 | 6.06E-05 | 6.06E-05 | 3.33E-05 | 3.00E-06 | 4.34E-05 | 2.70E-05 | 2.70E-05 | 1.34E-05 |
| 718 | 258372.65 | 4084828.84 | 2.25E-04 | 3.23E-03 | 2.38E-03 | 2.38E-03 | 1.33E-05 | 3.39E-05 | 4.92E-04 | 3.72E-04 | 3.72E-04 | 2.04E-04 | 1.84E-05 | 2.66E-04 | 1.65E-04 | 1.65E-04 | 8.19E-05 |
| 719 | 258408.79 | 4084842.22 | 2.36E-04 | 3.41E-03 | 2.51E-03 | 2.51E-03 | 1.40E-05 | 3.58E-05 | 5.19E-04 | 3.92E-04 | 3.92E-04 | 2.16E-04 | 1.94E-05 | 2.81E-04 | 1.75E-04 | 1.75E-04 | 8.64E-05 |
| 720 | 258434.81 | 4084866.47 | 2.54E-04 | 3.68E-03 | 2.71E-03 | 2.71E-03 | 1.53E-05 | 3.86E-05 | 5.61E-04 | 4.23E-04 | 4.23E-04 | 2.33E-04 | 2.10E-05 | 3.03E-04 | 1.88E-04 | 1.88E-04 | 9.33E-05 |
| 721 | 258330.24 | 4084823.14 | 2.17E-04 | 3.14E-05 | 2.31E-03 | 2.31E-03 | 1.29E-03 | 3.29E-05 | 4.78E-04 | 3.61E-04 | 3.61E-04 | 1.99E-04 | 1.79E-06 | 2.59E-04 | 1.61E-04 | 1.61E-04 | 7.95E-05 |
| 722 | 258305.91 | 4084824.15 | 2.19E-04 | 3.17E-03 | 2.34E-03 | 2.34E-03 | 1.30E-03 | 3.32E-05 | 4.83E-04 | 3.65E-04 | 3.65E-04 | 2.00E-04 | 1.81E-05 | 2.81E-04 | 1.62E-04 | 1.62E-04 | 8.03E-05 |
| 723 | 258281.58 | 4084825.15 | 2.20E-04 | 3.19E-03 | 2.35E-03 | 2.35E-03 | 1.31E-03 | 3.34E-05 | 4.85E-04 | 3.67E-04 | 3.67E-04 | 2.02E-04 | 1.82E-05 | 2.63E-04 | 1.63E-04 | 1.63E-04 | 8.08E-05 |
| 724 | 258257.25 | 4084826.15 | 2.25E-04 | 3.20E-03 | 2.36E-03 | 2.36E-03 | 1.31E-03 | 3.36E-05 | 4.87E-04 | 3.58E-04 | 3.58E-04 | 2.02E-04 | 1.82E-05 | 2.64E-04 | 1.64E-04 | 1.64E-04 | 6.10E-05 |
| 725 | 258232.91 | 4084827.15 | 2.21E-04 | 3.20E-03 | 2.36E-03 | 2.36E-03 | 1.32E-03 | 3.36E-05 | 4.88E-04 | 3.69E-04 | 3.69E-04 | 2.03E-04 | 1.83E-05 | 2.64E-04 | 1.64E-04 | 1.64E-04 | 6.12E-05 |
| 726 | 258208.58 | 4084828.15 | 2.21E-04 | 3.20E-03 | 2.36E-03 | 2.36E-03 | 1.32E-03 | 3.36E-05 | 4.88E-04 | 3.69E-04 | 3.69E-04 | 2.03E-04 | 1.82E-05 | 2.64E-04 | 1.64E-04 | 1.64E-04 | 8.12E-05 |
| 727 | 258184.25 | 4084829.15 | 2.21E-04 | 3.20E-03 | 2.36E-03 | 2.36E-03 | 1.33E-05 | 3.35E-05 | 4.87E-04 | 3.68E-04 | 3.68E-04 | 2.02E-04 | 1.82E-05 | 2.63E-04 | 1.64E-04 | 1.64E-04 | 8.10E-05 |
| 728 | 258159.92 | 4084830.15 | 2.20E-04 | 3.19E-03 | 2.35E-05 | 2.35E-03 | 1.31E-03 | 3.34E-05 | 4.85E-04 | 3.67E-04 | 3.67E-04 | 2.02E-04 | 1.82E-05 | 2.63E-04 | 1.63E-04 | 1.63E-04 | 8.07E-05 |
| 729 | 258155.59 | 4084831.15 | 2.19E-04 | 3.17E-03 | 2.34E-03 | 2.34E-03 | 1.30E-03 | 3.33E-05 | 4.83E-04 | 3.65E-04 | 3.65E-04 | 2.01E-04 | 1.81E-05 | 2.61E-04 | 1.62E-04 | 1.62E-04 | 8.03E-05 |
| 730 | 258111.25 | 4084832.15 | 2.18E-04 | 3.15E-03 | 2.32E-03 | 2.32E-03 | 1.29E-03 | 3.30E-05 | 4.79E-04 | 3.62E-04 | 3.62E-04 | 1.99E-04 | 1.79E-05 | 2.59E-04 | 1.61E-04 | 1.61E-04 | 7.98E-05 |
| 731 | 258086.92 | 4084833.15 | 2.16E-04 | 3.12E-03 | 2.30E-03 | 2.30E-05 | 1.28E-03 | 3.27E-05 | 4.75E-04 | 3.59E-04 | 3.59E-04 | 1.97E-04 | 1.78E-05 | 2.57E-04 | 1.60E-04 | 1.60E-04 | 7.91E-05 |
| 732 | 258062.59 | 4084834.15 | 2.13E-04 | 3.09E-05 | 2.27E-03 | 2.27E-03 | 1.27E-03 | 3.24E-05 | 4.70E-04 | 3.55E-04 | 3.55E-04 | 1.95E-04 | 1.76E-05 | 2.54E-04 | 1.58E-04 | 1.58E-04 | 7.82E-05 |
| 733 | 258038.26 | 4084835.15 | 2.10E-04 | 3.04E-03 | 2.24E-03 | 2.24E-03 | 1.25E-03 | 3.19E-05 | 4.64E-04 | 3.50E-04 | 3.50E-04 | 1.93E-04 | 1.73E-05 | 2.51E-04 | 1.56E-04 | 1.56E-04 | 7.72E-05 |
| 734 | 258025.93 | 4084836.15 | 2.07E-04 | 3.00E-03 | 2.21E-03 | 2.21E-03 | 1.23E-03 | 3.14E-05 | 4.56E-04 | 3.45E-04 | 3.45E-04 | 1.90E-04 | 1.71E-05 | 2.47E-04 | 1.53E-04 | 1.53E-04 | 7.59E-05 |
| 735 | 257989.6 | 4084837.15 | 2.03E-04 | 2.94E-03 | 2.17E-03 | 2.17E-03 | 1.21E-03 | 3.08E-05 | 4.48E-04 | 3.38E-04 | 3.36E-04 | 1.86E-04 | 1.68E-05 | 2.42E-04 | 1.50E-04 | 1.50E-04 | 7.45E-05 |
| 736 | 257965.26 | 4084838.15 | 1.99E-04 | 2.87E-03 | 2.12E-03 | 2.12E-03 | 1.18E-05 | 3.02E-05 | 4.38E-04 | 3.31E-04 | 3.31E-04 | 1.82E-04 | 1.64E-06 | 2.37E-04 | 1.47E-04 | 1.47E-04 | 7.28E-05 |
| 737 | 257940.93 | 4084839.15 | 1.93E-04 | 2.80E-03 | 2.06E-03 | 2.06E-03 | 1.15E-03 | 2.94E-05 | 4.26E-04 | 3.22E-04 | 3.22E-04 | 1.77E-04 | 1.59E-05 | 2.31E-04 | 1.43E-04 | 1.43E-04 | 7.09E-05 |
| 738 | 257916.6 | 4084840.15 | 1.87E-04 | 2.71E-03 | 2.00E-03 | 2.00E-03 | 1.11E-03 | 2.84E-05 | 4.13E-04 | 3.12E-04 | 3.12E-04 | 1.72E-04 | 1.54E-05 | 2.23E-04 | 1.39E-04 | 1.39E-04 | 6.87E-05 |
| 739 | 257892.27 | 4084841.15 | 1.81E-04 | 2.61E-03 | 1.92E-03 | 1.92E-03 | 1.07E-03 | 2.74E-05 | 3.98E-04 | 3.01E-04 | 3.01E-04 | 1.65E-04 | 1.49E-05 | 2.15E-04 | 1.34E-04 | 1.34E-04 | 6.62E-05 |
| 740 | 257867.94 | 4084842.15 | 1.75E-04 | 2.50E-03 | 1.84E-03 | 1.84E-03 | 1.03E-03 | 2.62E-05 | 3.81E-04 | 2.87E-04 | 2.87E-04 | 1.58E-04 | 1.42E-05 | 2.06E-04 | 1.28E-04 | 1.28E-04 | 8.33E-05 |
| 741 | 257843.6 | 4084843.15 | 1.64E-04 | 2.37E-03 | 1.75E-03 | 1.75E-03 | 9.74E-04 | 2.49E-05 | 3.61E-04 | 2.73E-04 | 2.73E-04 | 1.50E-04 | 1.35E-05 | 1.95E-04 | 1.21E-04 | 1.21E-04 | 6.01E-05 |
| 742 | 257819.27 | 4084844.15 | 1.64E-04 | 2.23E-03 | 1.64E-03 | 1.84E-03 | 9.15E-04 | 2.34E-05 | 3.39E-04 | 2.56E-04 | 2.58E-04 | 1.41E-04 | 1.27E-05 | 1.83E-04 | 1.14E-04 | 1.14E-04 | 5.64E-05 |
| 743 | 257794.94 | 4084845.15 | 1.43E-04 | 2.07E-03 | 1.52E-03 | 1.52E-03 | 8.49E-04 | 2.17E-05 | 3.15E-04 | 2.38E-04 | 2.38E-04 | 1.31E-04 | 1.18E-05 | 1.70E-04 | 1.06E-04 | 1.06E-04 | 5.23E-05 |
| 744 | 257770.61 | 4084846.15 | 1.31E-04 | 1.89E-03 | 1.39E-03 | 1.39E-03 | 7.76E-04 | 1.98E-05 | 2.68E-04 | 2.17E-04 | 2.17E-04 | 1.19E-04 | 1.08E-05 | 1.56E-04 | 9.87E-05 | 9.67E-05 | 4.79E-05 |
| 745 | 257746.28 | 4084847.15 | 1.17E-04 | 1.70E-03 | 1.25E-03 | 1.25E-03 | 8.97E-04 | 1.78E-05 | 2.58E-04 | 1.95E-04 | 1.95E-04 | 1.07E-04 | 9.68E-06 | 1.40E-04 | 8.68E-05 | 6.68E-05 | 4.30E-05 |
| 748 | 257721.95 | 4084848.15 | 1.03E-04 | 1.49E-03 | 1.10E-03 | 1.10E-03 | 6.15E-04 | 1.56E-05 | 2.27E-04 | 1.72E-04 | 1.72E-04 | 9.43E-05 | 8.50E-06 | 1.23E-04 | 7.63E-05 | 7.63E-05 | 3.78E-05 |
| 747 | 257697.81 | 4084849.15 | 8.85E-05 | 1.28E-03 | 9.43E-04 | 9.43E-04 | 5.26E-04 | 1.34E-05 | 1.95E-04 | 1.47E-04 | 1.47E-04 | 8.10E-05 | 7.29E-06 | 2.06E-04 | 6.55E-05 | 6.55E-05 | 3.24E-05 |
| 748 | 257673.28 | 4084850.15 | 7.41E-05 | 1.07E-03 | 7.89E-04 | 7.89E-04 | 4.40E-04 | 1.12E-05 | 1.63E-04 | 1.23E-04 | 1.23E-04 | 6.78E-05 | 6.10E-06 | 8.83E-05 | 5.48E-05 | 5.48E-05 | 2.71E-05 |
| 749 | 257648.95 | 4084851.15 | 6.06E-05 | 8.77E-04 | 6.47E-04 | 6.47E-04 | 3.60E-04 | 9.20E-06 | 1.34E-04 | 1.01E-04 | 1.01E-04 | 5.55E-05 | 5.00E-06 | 7.23E-05 | 4.49E-05 | 4.49E-05 | 2.22E-05 |
| 750 | 257624.62 | 4084852.15 | 4.92E-05 | 7.11E-04 | 5.24E-04 | 5.24E-04 | 2.92E-04 | 7.46E-06 | 1.08E-04 | 8.18E-05 | 8.15E-05 | 4.50E-05 | 4.05E-06 | 5.86E-05 | 3.64E-05 | 3.64E-05 | 1.80E-05 |
| 751 | 257600.29 | 4084853.15 | 4.02E-05 | 5.83E-04 | 4.29E-04 | 4.29E-04 | 2.39E-04 | 6.10E-06 | 8.86E-05 | 6.69E-05 | 8.69E-05 | 3.66E-05 | 3.31E-06 | 4.79E-05 | 2.98E-05 | 2.98E-05 | 1.47E-05 |
| 752 | 257575.95 | 4084854.15 | 3.37E-05 | 4.87E-04 | 3.59E-04 | 3.59E-04 | 2.00E-04 | 5.11E-06 | 7.42E-05 | 5.60E-05 | 5.60E-05 | 3.06E-05 | 2.77E-06 | 4.01E-05 | 2.49E-05 | 2.49E-05 | 1.23E-05 |
| 753 | 257551.62 | 4084855.15 | 2.90E-05 | 4.19E-04 | 3.09E-04 | 3.09E-04 | 1.72E-04 | 4.40E-06 | 8.38E-05 | 4.82E-05 | 4.82E-05 | 2.65E-05 | 2.39E-05 | 3.45E-05 | 2.15E-05 | 2.15E-05 | 1.06E-05 |
| 754 | 258374.21 | 4084780.25 | 1.57E-04 | 2.27E-03 | 1.67E-03 | 1.67E-03 | 9.31E-04 | 2.38E-05 | 3.45E-04 | 2.61E-04 | 2.61E-04 | 1.43E-04 | 1.29E-05 | 1.87E-04 | 1.16E-04 | 1.16E-04 | 5.74E-05 |
| 755 | 258395.89 | 4084788.25 | 1.63E-04 | 2.36E-03 | 1.74E-03 | 1.74E-03 | 9.70E-04 | 2.48E-05 | 3.60E-04 | 2.72E-04 | 2.72E-04 | 1.49E-04 | 1.35E-05 | 1.95E-04 | 1.21E-04 | 1.21E-04 | 5.98E-05 |
| 756 | 258417.58 | 4084796.27 | 1.68E-04 | 2.43E-03 | 1.79E-03 | 1.79E-03 | 1.00E-03 | 2.55E-05 | 3.71E-04 | 2.80E-04 | 2.80E-04 | 1.54E-04 | 1.39E-05 | 2.01E-04 | 1.25E-04 | 1.25E-04 | 6.17E-05 |
| 757 | 258439.27 | 4084804.3 | 1.73E-04 | 2.47E-03 | 1.82E-03 | 1.82E-03 | 1.02E-03 | 2.59E-05 | 3.76E-04 | 2.84E-04 | 2.84E-04 | 1.56E-04 | 1.41E-05 | 2.04E-04 | 1.27E-04 | 1.27E-04 | 6.26E-05 |
| 758 | 258470.49 | 4084833.4 | 1.83E-04 | 2.64E-03 | 1.95E-03 | 1.95E-03 | 1.09E-03 | 2.77E-05 | 4.03E-04 | 3.04E-04 | 3.04E-04 | 1.67E-04 | 1.51E-05 | 2.18E-04 | 1.35E-04 | 1.35E-04 | 6.70E-05 |
| 759 | 258480.02 | 4084854.47 | 1.91E-04 | 2.76E-03 | 2.04E-03 | 2.04E-03 | 1.14E-03 | 2.90E-05 | 4.21E-04 | 3.18E-04 | 3.18E-04 | 1.75E-04 | 1.58E-05 | 2.28E-04 | 1.42E-04 | 1.42E-04 | 7.01E-05 |
| 760 | 258489.55 | 4084875.54 | 1.93E-04 | 2.79E-03 | 2.06E-03 | 2.06E-03 | 1.15E-03 | 2.93E-05 | 4.25E-04 | 3.21E-04 | 3.21E-04 | 1.76E-04 | 1.59E-05 | 2.30E-04 | 1.43E-04 | 1.43E-04 | 7.07E-05 |
| 761 | 258499.08 | 4084896.61 | 1.88E-04 | 2.72E-03 | 2.00E-03 | 2.00E-03 | 1.12E-03 | 2.85E-05 | 4.14E-04 | 3.13E-04 | 3.13E-04 | 1.72E-04 | 1.55E-05 | 2.24E-04 | 1.39E-04 | 1.39E-04 | 6.89E-05 |
| 762 | 258352.52 | 4084772.19 | 1.49E-04 | 2.18E-03 | 1.59E-03 | 1.59E-03 | 8.88E-04 | 2.27E-05 | 3.29E-04 | 2.49E-04 | 2.49E-04 | 1.37E-04 | 1.23E-05 | 1.78E-04 | 1.11E-04 | 1.11E-04 | 5.48E-05 |
| 763 | 258328.19 | 4084773.19 | 1.51E-04 | 2.18E-03 | 1.60E-03 | 1.60E-03 | 8.95E-04 | 2.28E-05 | 3.32E-04 | 2.51E-04 | 2.51E-04 | 1.38E-04 | 1.24E-05 | 1.79E-04 | 1.11E-04 | 1.11E-04 | 5.52E-05 |
| 764 | 258303.85 | 4084774.19 | 1.51E-04 | 2.19E-03 | 1.61E-03 | 1.61E-03 | 8.98E-04 | 2.29E-05 | 3.33E-04 | 2.52E-04 | 2.52E-04 | 1.38E-04 | 1.25E-05 | 1.80E-04 | 1.12E-04 | 1.12E-04 | 5.54E-05 |
| 765 | 258279.52 | 4084775.19 | 1.51E-04 | 2.19E-05 | 1.61E-03 | 1.61E-03 | 8.99E-04 | 2.30E-05 | 3.33E-04 | 2.52E-04 | 2.52E-04 | 1.38E-04 | 1.25E-05 | 1.80E-04 | 1.12E-04 | 1.12E-04 | 5.55E-05 |
| 766 | 258255.19 | 4084776.19 | 1.51E-04 | 2.19E-03 | 1.61E-03 | 1.61E-03 | 8.98E-04 | 2.29E-05 | 3.33E-04 | 2.51E-04 | 2.51E-04 | 1.38E-04 | 1.25E-05 | 1.80E-04 | 1.12E-04 | 1.12E-04 | 5.54E-05 |
| 767 | 258230.86 | 4084777.19 | 1.51E-04 | 2.18E-03 | 1.61E-03 | 1.61E-03 | 8.95E-04 | 2.29E-05 | 3.32E-04 | 2.51E-04 | 2.51E-04 | 1.38E-04 | 1.24E-05 | 1.60E-04 | 1.12E-04 | 1.12E-04 | 5.52E-05 |
| 768 | 258206.53 | 4084778.19 | 1.50E-04 | 2.17E-03 | 1.60E-03 | 1.60E-03 | 8.90E-04 | 2.27E-05 | 3.30E-04 | 2.49E-04 | 2.49E-04 | 1.37E-04 | 1.23E-05 | 1.79E-04 | 1.11E-04 | 1.13E-04 | 5.49E-05 |
| 769 | 258182.2 | 4084779.19 | 1.49E-04 | 2.15E-05 | 1.59E-03 | 1.59E-03 | 8.84E-04 | 2.26E-05 | 3.28E-04 | 2.48E-04 | 2.48E-04 | 1.36E-04 | 1.23E-05 | 1.77E-04 | 1.10E-04 | 1.10E-04 | 5.45E-05 |
| 770 | 258157.86 | 4084780.19 | 1.47E-04 | 2.13E-03 | 1.57E-03 | 1.57E-03 | 8.76E-04 | 2.24E-05 | 3.25E-04 | 2.45E-04 | 2.45E-04 | 1.35E-04 | 1.25E-05 | 1.76E-04 | 1.09E-04 | 1.09E-04 | 5.40E-05 |
| 771 | 258133.53 | 4084781.19 | 1.46E-04 | 2.11E-03 | 1.55E-03 | 1.55E-03 | 8.67E-04 | 2.21E-05 | 3.21E-04 | 2.43E-04 | 2.43E-04 | 1.31E-04 | 1.20E-05 | 1.74E-04 | 1.08E-04 | 1.08E-04 | 5.34E-05 |
| 772 | 258109.2 | 4084782.19 | 1.44E-04 | 2.08E-03 | 1.53E-03 | 1.53E-03 | 8.55E-04 | 2.18E-05 | 3.17E-04 | 2.39E-04 | 2.39E-04 | 1.32E-04 | 1.19E-05 | 1.72E-04 | 1.07E-04 | 1.07E-04 | 5.27E-05 |
| 773 | 258084.87 | 4084783.19 | 1.42E-04 | 2.05E-03 | 1.51E-03 | 1.51E-03 | 8.42E-04 | 2.15E-05 | 3.12E-04 | 2.36E-04 | 2.36E-04 | 1.30E-04 | 1.17E-05 | 1.69E-04 | 1.05E-04 | 1.05E-04 | 5.19E-05 |
| 774 | 258060.54 | 4084784.19 | 1.39E-04 | 2.01E-03 | 1.48E-03 | 1.48E-03 | 8.26E-04 | 2.11E-05 | 3.06E-04 | 2.31E-04 | 2.31E-04 | 1.27E-04 | 1.15E-05 | 1.66E-04 | 1.03E-04 | 1.01E-04 | 5.09E-05 |
| 775 | 258036.2 | 4084785.19 | 1.36E-04 | 1.97E-03 | 1.45E-03 | 1.45E-03 | 8.08E-04 | 2.06E-05 | 2.99E-04 | 2.26E-04 | 2.26E-04 | 1.24E-04 | 1.12E-05 | 1.62E-04 | 1.01E-04 | 1.01E-04 | 4.98E-05 |
| 776 | 258011.87 | 4084786.19 | 1.32E-04 | 1.92E-03 | 1.41E-03 | 1.43E-03 | 7.87E-04 | 2.01E-05 | 2.92E-04 | 2.20E-04 | 2.20E-04 | 1.23E-04 | 1.09E-05 | 1.58E-04 | 9.81E-05 | 9.81E-05 | 4.86E-06 |
| 777 | 257987.54 | 4084787.19 | 1.29E-04 | 1.86E-03 | 1.37E-03 | 1.37E-03 | 7.64E-04 | 1.95E-05 | 2.83E-04 | 2.14E-04 | 2.14E-04 | 1.18E-04 | 1.06E-05 | 1.53E-04 | 9.52E-05 | 9.52E-05 | 4.71E-05 |
| 778 | 257963.21 | 4084788.19 | 1.24E-04 | 1.80E-03 | 1.32E-03 | 1.32E-03 | 7.38E-04 | 1.88E-05 | 2.74E-04 | 2.07E-04 | 2.07E-04 | 1.14E-04 | 1.02E-06 | 1.48E-04 | 9.19E-05 | 9.19E-05 | 4.55E-05 |
| 779 | 257938.88 | 4084789.19 | 1.19E-04 | 1.72E-03 | 1.27E-03 | 1.27E-03 | 7.08E-04 | 1.81E-05 | 2.63E-04 | 1.98E-04 | 1.98E-04 | 1.09E-04 | 9.83E-06 | 1.42E-04 | 8.83E-05 | 8.83E-05 | 4.37E-05 |
| 780 | 257914.55 | 4084790.19 | 1.14E-04 | 1.65E-03 | 1.21E-03 | 1.21E-03 | 8.76E-04 | 1.73E-05 | 2.51E-04 | 1.89E-04 | 1.89E-04 | 1.04E-04 | 9.38E-06 | 1.36E-04 | 8.42E-05 | 8.42E-05 | 4.17E-05 |
| 781 | 257890.21 | 4084791.19 | 1.08E-04 | 1.56E-03 | 1.15E-03 | 1.15E-03 | 8.40E-04 | 1.63E-05 | 2.37E-04 | 1.79E-04 | 1.79E-04 | 9.86E-05 | 8.88E-05 | 1.28E-04 | 7.98E-05 | 7.98E-05 | 3.95E-05 |
| 782 | 257865.88 | 4084792.19 | 1.01E-04 | 1.46E-03 | 1.08E-03 | 1.08E-03 | 6.01E-04 | 1.53E-05 | 2.23E-04 | 1.68E-04 | 1.68E-04 | 9.26E-05 | 8.34E-05 | 1.23E-04 | 7.49E-05 | 7.49E-05 | 3.71E-05 |
| 783 | 257841.55 | 4084793.19 | 9.40E-05 | 1.36E-03 | 1.00E-03 | 1.00E-03 | 5.59E-04 | 1.43E-05 | 2.07E-04 | 1.57E-04 | 1.57E-04 | 8.60E-05 | 7.75E-05 | 1.12E-04 | 6.96E-05 | 6.96E-05 | 3.45E-05 |
| 784 | 257817.22 | 4084794.19 | 8.64E-05 | 1.25E-03 | 9.21E-04 | 9.21E-04 | 5.14E-04 | 1.31E-05 | 1.90E-04 | 1.44E-04 | 1.44E-04 | 7.91E-05 | 7.12E-05 | 1.03E-04 | 8.40E-05 | 6.40E-05 | 3.17E-05 |
| 785 | 257792.89 | 4084795.19 | 7.64E-05 | 1.25E-03 | 8.36E-04 | 8.36E-04 | 4.66E-04 | 1.19E-05 | 1.73E-04 | 1.31E-04 | 1.31E-04 | 7.18E-05 | 8.47E-05 | 9.35E-05 | 5.81E-05 | 5.81E-05 | 2.68E-05 |
| 786 | 257768.55 | 4084796.19 | 7.02E-05 | 1.02E-03 | 7.49E-04 | 7.49E-04 | 4.17E-04 | 1.07E-05 | 1.55E-04 | 1.17E-04 | 1.17E-04 | 6.43E-05 | 5.79E-05 | 8.37E-05 | 5.70E-05 | 5.20E-05 | 2.57E-05 |
| 787 | 257744.25 | 4084797.19 | 8.19E-05 | 8.96E-04 | 8.60E-04 | 8.60E-04 | 3.68E-04 | 9.40E-06 | 1.56E-04 | 1.03E-04 | 1.03E-04 | 5.67E-05 | 5.11E-05 | 7.38E-05 | 4.59E-05 | 4.59E-05 | 2.27E-05 |
| 786 | 257719.89 | 4084798.19 | 5.39E-05 | 7.79E-04 | 5.74E-04 | 5.74E-04 | 3.20E-04 | 8.18E-05 | 1.19E-04 | 8.97E-05 | 8.97E-05 | 4.93E-05 | 4.44E-05 | 8.42E-05 | 3.99E-05 | 3.99E-05 | 1.98E-05 |
| 789 | 257695.58 | 4084799.19 | 4.63E-05 | 8.70E-04 | 4.94E-04 | 4.94E-04 | 2.75E-04 | 7.03E-05 | 1.02E-04 | 7.71E-05 | 7.71E-05 | 4.24E-05 | 3.82E-05 | 5.52E-05 | 3.43E-05 | 3.43E-05 | 1.70E-05 |
| 790 | 257671.23 | 4084800.2 | 3.95E-05 | 5.72E-04 | 4.25E-04 | 4.22E-04 | 2.35E-04 | 8.00E-05 | 8.71E-05 | 6.38E-05 | 6.58E-05 | 3.62E-05 | 3.26E-05 | 4.71E-05 | 2.93E-05 | 2.93E-05 | 1.45E-05 |
| 791 | 257646.9 | 4084801.2 | 3.38E-05 | 4.88E-04 | 3.60E-04 | 3.60E-04 | 2.01E-04 | 5.12E-05 | 7.44E-05 | 5.62E-05 | 5.62E-05 | 3.09E-05 | 2.78E-05 | 4.02E-05 | 2.50E-05 | 2.50E-05 | 1.24E-05 |
| 792 | 257622.56 | 4084802.2 | 2.90E-05 | 4.20E-04 | 3.09E-04 | 3.09E-04 | 1.73E-04 | 4.41E-05 | 6.40E-05 | 4.83E-05 | 4.83E-05 | 2.66E-05 | 2.39E-05 | 3.46E-05 | 2.15E-05 | 2.15E-05 | 1.06E-05 |
| 793 | 257598.23 | 4084803.2 | 2.53E-05 | 3.66E-04 | 2.70E-04 | 2.70E-04 | 1.50E-04 | 3.84E-06 | 5.57E-05 | 4.21E-05 | 4.21E-06 | 2.31E-05 | 2.08E-06 | 3.01E-05 | 1.87E-06 | 1.87E-05 | 9.27E-06 |
| 794 | 257573.9 | 4084804.2 | 2.23E-05 | 3.23E-04 | 2.38E-04 | 2.38E-04 | 1.33E-04 | 3.39E-05 | 4.92E-05 | 3.72E-05 | 3.72E-05 | 2.04E-05 | 1.84E-06 | 2.66E-05 | 1.65E-05 | 1.65E-05 | 8.19E-06 |
| 795 | 257549.57 | 4084805.2 | 2.00E-05 | 2.89E-04 | 2.25E-04 | 2.15E-04 | 1.19E-04 | 3.04E-06 | 4.41E-05 | 3.33E-05 | 3.33E-05 | 1.83E-05 | 1.65E-06 | 2.39E-05 | 1.48E-05 | 1.48E-05 | 7.34E-06 |
| 796 | 258371.12 | 4084729.88 | 1.16E-04 | 1.67E-03 | 1.23E-03 | 1.23E-03 | 8.87E-04 | 1.75E-06 | 2.55E-04 | 1.92E-04 | 1.92E-04 | 1.06E-04 | 9.52E-06 | 1.38E-04 | 8.36E-05 | 8.56E-05 | 4.24E-05 |
| 797 | 258412.43 | 4084745.17 | 1.25E-04 | 1.80E-03 | 1.33E-03 | 1.33E-03 | 7.41E-04 | 1.89E-05 | 2.75E-04 | 2.07E-04 | 2.07E-04 | 1.14E-04 | 1.03E-05 | 1.49E-04 | 9.23E-05 | 9.23E-05 | 4.57E-05 |
| 798 | 258453.74 | 4084760.46 | 1.31E-04 | 1.89E-03 | 1.39E-03 | 1.39E-03 | 7.77E-04 | 1.98E-05 | 2.88E-04 | 2.18E-04 | 2.18E-04 | 1.20E-04 | 1.08E-05 | 1.56E-04 | 9.68E-05 | 9.68E-05 | 4.79E-05 |
| 799 | 258504.25 | 4084795.83 | 1.39E-04 | 2.01E-03 | 1.48E-03 | 1.48E-03 | 8.24E-04 | 2.10E-05 | 3.05E-04 | 2.31E-04 | 2.31E-04 | 1.27E-04 | 1.14E-05 | 1.65E-04 | 1.03E-04 | 1.03E-04 | 5.08E-05 |
| 800 | 258522.28 | 4084838.96 | 1.47E-04 | 2.12E-03 | 1.57E-03 | 1.57E-03 | 8.73E-04 | 2.23E-05 | 3.24E-04 | 2.44E-04 | 2.44E-04 | 1.34E-04 | 1.21E-05 | 1.75E-04 | 

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 582 | 258969.53 | 4086369.5 | 3.54E-06 | 5.12E-05 | 3.77E-05 | 3.77E-05 | 3.10E-05 | 5.37E-07 | 7.80E-06 | 5.89E-06 | 5.89E-06 | 3.24E-06 | 2.93E-07 | 4.22E-06 | 2.62E-06 | 2.62E-06 | 1.30E-06 |
| 583 | 258947.09 | 4086379.88 | 3.60E-05 | 5.21E-05 | 3.84E-05 | 3.84E-05 | 3.14E-05 | 5.47E-07 | 7.94E-06 | 6.00E-06 | 6.00E-06 | 3.30E-06 | 2.97E-07 | 4.29E-06 | 2.67E-06 | 2.67E-06 | 1.32E-06 |
| 584 | 258924.64 | 4086390.26 | 3.66E-05 | 5.29E-05 | 3.90E-06 | 3.90E-05 | 2.17E-06 | 5.55E-07 | 6.05E-06 | 6.08E-06 | 6.08E-06 | 3.35E-06 | 3.01E-07 | 4.36E-06 | 2.71E-06 | 2.71E-06 | 1.34E-06 |
| 585 | 258903.19 | 4086400.64 | 3.70E-05 | 5.35E-05 | 3.95E-05 | 3.95E-05 | 2.20E-05 | 5.63E-07 | 8.15E-06 | 6.16E-06 | 6.16E-06 | 3.39E-06 | 3.05E-07 | 4.41E-06 | 2.74E-06 | 2.74E-06 | 1.35E-06 |
| 586 | 258879.75 | 4086411.02 | 3.74E-06 | 5.41E-05 | 3.98E-05 | 3.96E-05 | 2.22E-05 | 5.67E-07 | 8.34E-06 | 6.33E-06 | 6.33E-06 | 3.42E-06 | 3.08E-07 | 4.46E-06 | 3.77E-06 | 2.77E-06 | 1.37E-06 |
| 587 | 258857.3 | 4086421.4 | 3.77E-06 | 5.45E-05 | 4.02E-05 | 4.02E-05 | 2.34E-05 | 5.72E-07 | 8.30E-06 | 6.37E-06 | 6.37E-06 | 3.45E-06 | 3.10E-07 | 4.49E-06 | 2.79E-06 | 3.79E-06 | 1.38E-06 |
| 588 | 258834.86 | 4086431.78 | 3.79E-06 | 5.48E-05 | 4.04E-05 | 4.04E-05 | 2.35E-06 | 5.75E-07 | 8.39E-06 | 6.31E-06 | 6.31E-06 | 3.47E-06 | 3.13E-07 | 4.52E-06 | 3.81E-06 | 3.81E-06 | 1.39E-06 |
| 589 | 258812.41 | 4086442.16 | 3.81E-06 | 5.51E-05 | 4.06E-05 | 4.06E-05 | 2.26E-05 | 5.78E-07 | 8.39E-06 | 6.34E-06 | 6.34E-06 | 3.49E-06 | 3.14E-07 | 4.54E-06 | 2.82E-06 | 3.82E-06 | 1.40E-06 |
| 590 | 358789.97 | 4086453.55 | 3.83E-06 | 5.53E-05 | 4.08E-05 | 4.08E-05 | 2.27E-05 | 5.81E-07 | 8.43E-06 | 6.37E-06 | 6.37E-05 | 3.50E-06 | 3.15E-07 | 4.66E-06 | 2.83E-06 | 2.83E-06 | 1.40E-06 |
| 591 | 258767.53 | 4086463.93 | 3.84E-06 | 5.56E-05 | 4.10E-06 | 4.10E-05 | 2.28E-06 | 5.83E-07 | 8.47E-06 | 6.40E-06 | 8.40E-06 | 3.52E-06 | 3.17E-07 | 4.58E-06 | 2.85E-06 | 2.85E-06 | 1.41E-06 |
| 592 | 258745.07 | 4086473.31 | 3.86E-06 | 5.59E-05 | 4.12E-05 | 4.12E-05 | 2.30E-05 | 5.66E-07 | 8.51E-06 | 6.43E-06 | 6.43E-06 | 3.53E-06 | 3.18E-07 | 4.61E-06 | 2.86E-06 | 3.86E-06 | 1.42E-06 |
| 593 | 358722.63 | 4086483.69 | 3.88E-06 | 5.62E-05 | 4.14E-05 | 4.14E-05 | 3.31E-05 | 5.89E-07 | 8.66E-06 | 6.46E-06 | 6.46E-06 | 3.59E-06 | 3.20E-07 | 4.63E-06 | 3.88E-06 | 2.88E-06 | 1.42E-06 |
| 594 | 258700.16 | 4086494.07 | 3.91E-06 | 5.65E-05 | 4.16E-06 | 4.16E-05 | 2.32E-05 | 5.93E-07 | 8.61E-06 | 6.50E-06 | 6.50E-06 | 3.57E-06 | 3.22E-07 | 4.66E-06 | 2.89E-06 | 2.89E-06 | 1.43E-06 |
| 595 | 258677.74 | 4086504.45 | 3.93E-06 | 5.69E-05 | 4.19E-05 | 4.19E-05 | 2.34E-05 | 5.97E-07 | 8.66E-06 | 6.56E-06 | 6.55E-06 | 3.60E-06 | 3.24E-07 | 4.69E-06 | 3.91E-06 | 2.91E-06 | 1.44E-06 |
| 596 | 358655.29 | 4086514.83 | 3.96E-06 | 5.73E-05 | 4.22E-05 | 4.23E-05 | 2.36E-06 | 6.01E-07 | 8.73E-06 | 6.60E-06 | 6.60E-06 | 3.63E-06 | 3.27E-07 | 4.72E-05 | 2.93E-06 | 3.93E-05 | 1.45E-06 |
| 597 | 258632.84 | 4086525.21 | 4.00E-06 | 5.78E-05 | 4.26E-05 | 4.26E-05 | 2.37E-06 | 6.06E-07 | 8.80E-06 | 6.65E-06 | 6.65E-06 | 3.66E-06 | 3.29E-07 | 4.76E-06 | 2.96E-06 | 2.96E-06 | 1.46E-06 |
| 598 | 258610.4 | 4086535.59 | 4.03E-06 | 5.83E-06 | 4.30E-05 | 4.30E-05 | 2.40E-05 | 6.13E-07 | 8.88E-06 | 6.71E-06 | 6.71E-06 | 3.69E-06 | 3.32E-07 | 4.81E-06 | 2.98E-06 | 2.98E-06 | 1.48E-06 |
| 599 | 258587.95 | 4086545.97 | 4.07E-06 | 5.89E-05 | 4.34E-05 | 4.34E-05 | 2.42E-05 | 6.18E-07 | 8.97E-06 | 6.77E-06 | 6.77E-06 | 3.72E-06 | 3.35E-07 | 4.85E-06 | 3.01E-06 | 3.01E-06 | 1.49E-06 |
| 600 | 358565.51 | 4086556.36 | 4.11E-06 | 5.95E-05 | 4.38E-05 | 4.38E-05 | 2.44E-05 | 6.24E-07 | 9.06E-06 | 6.84E-06 | 6.84E-06 | 3.76E-06 | 3.39E-07 | 4.90E-06 | 3.04E-06 | 3.04E-06 | 1.51E-06 |
| 601 | 358543.06 | 4086566.74 | 4.15E-06 | 6.01E-06 | 4.43E-05 | 4.43E-05 | 2.47E-05 | 6.30E-07 | 9.15E-06 | 6.91E-06 | 6.91E-06 | 3.80E-06 | 3.42E-07 | 4.95E-06 | 3.08E-06 | 3.08E-06 | 1.52E-06 |
| 602 | 258520.61 | 4086577.12 | 4.20E-06 | 6.07E-05 | 4.47E-05 | 4.47E-05 | 2.49E-05 | 6.37E-07 | 9.25E-06 | 6.99E-06 | 6.99E-06 | 3.84E-06 | 3.46E-07 | 5.00E-06 | 3.11E-06 | 3.11E-06 | 1.54E-06 |
| 603 | 258498.17 | 4086587.5 | 4.24E-06 | 6.13E-05 | 4.52E-05 | 4.52E-05 | 2.53E-05 | 6.43E-07 | 9.34E-06 | 7.06E-06 | 7.06E-06 | 3.88E-06 | 3.49E-07 | 5.05E-06 | 3.14E-06 | 3.14E-06 | 1.55E-06 |
| 604 | 358475.73 | 4086597.88 | 4.28E-06 | 6.19E-05 | 4.56E-05 | 4.56E-05 | 3.54E-05 | 6.50E-07 | 9.43E-06 | 7.13E-06 | 7.12E-06 | 3.93E-06 | 3.53E-07 | 5.10E-06 | 3.17E-06 | 3.17E-06 | 1.57E-06 |
| 605 | 258453.38 | 4086608.26 | 4.33E-06 | 6.35E-05 | 4.50E-05 | 4.60E-05 | 3.57E-05 | 6.56E-07 | 9.53E-06 | 7.19E-06 | 7.19E-06 | 3.95E-06 | 3.56E-07 | 5.15E-06 | 3.20E-06 | 3.20E-06 | 1.58E-06 |
| 606 | 259863.82 | 4085076.35 | 4.20E-06 | 6.07E-05 | 4.47E-05 | 4.47E-05 | 2.49E-05 | 6.37E-07 | 9.25E-06 | 6.99E-06 | 6.99E-06 | 3.84E-06 | 3.46E-07 | 5.00E-06 | 3.11E-06 | 3.11E-06 | 1.54E-06 |
| 607 | 259863.1 | 4085051.6 | 4.25E-06 | 6.14E-05 | 4.53E-05 | 4.53E-05 | 2.52E-05 | 6.45E-07 | 9.36E-06 | 7.07E-06 | 7.07E-06 | 3.89E-06 | 3.50E-07 | 5.06E-06 | 3.15E-06 | 3.15E-06 | 1.58E-06 |
| 608 | 259862.38 | 4085026.84 | 4.31E-06 | 6.34E-05 | 4.60E-05 | 4.60E-06 | 2.56E-05 | 6.55E-07 | 9.50E-06 | 7.18E-06 | 7.18E-06 | 3.95E-06 | 3.58E-07 | 5.14E-06 | 3.19E-06 | 3.19E-06 | 1.58E-06 |
| 609 | 259861.65 | 4085002.08 | 4.40E-06 | 6.36E-05 | 4.69E-05 | 4.69E-05 | 2.61E-05 | 6.68E-07 | 9.69E-06 | 7.32E-06 | 7.32E-06 | 4.03E-06 | 3.63E-07 | 5.25E-06 | 3.26E-06 | 3.26E-06 | 1.61E-06 |
| 610 | 259860.93 | 4084977.33 | 4.50E-06 | 6.51E-05 | 4.80E-05 | 4.80E-05 | 2.68E-05 | 6.84E-07 | 9.93E-06 | 7.60E-06 | 7.50E-06 | 4.12E-06 | 3.71E-07 | 5.37E-06 | 3.34E-06 | 3.34E-06 | 1.65E-06 |
| 611 | 259860.21 | 4084953.57 | 4.62E-06 | 6.69E-05 | 4.93E-03 | 4.93E-05 | 3.75E-05 | 7.03E-07 | 1.03E-05 | 7.69E-06 | 7.69E-06 | 4.23E-06 | 3.81E-07 | 5.51E-06 | 3.42E-06 | 3.42E-06 | 1.69E-06 |
| 612 | 259859.49 | 4084927.61 | 4.76E-06 | 6.88E-05 | 5.07E-05 | 5.07E-05 | 3.83E-05 | 7.23E-07 | 1.05E-05 | 7.93E-06 | 7.92E-06 | 4.35E-06 | 3.92E-07 | 5.67E-06 | 3.52E-06 | 3.52E-06 | 1.74E-06 |
| 613 | 259858.76 | 4084903.06 | 4.90E-06 | 7.02E-05 | 5.22E-05 | 5.22E-05 | 2.91E-05 | 7.43E-07 | 1.08E-05 | 8.19E-06 | 6.35E-06 | 4.48E-06 | 4.04E-07 | 5.84E-06 | 3.63E-06 | 3.63E-06 | 1.60E-06 |
| 614 | 259858.04 | 4084878.3 | 5.04E-06 | 7.29E-05 | 5.37E-06 | 5.37E-05 | 2.99E-05 | 7.65E-07 | 1.11E-05 | 6.39E-06 | 8.39E-06 | 4.61E-06 | 4.15E-07 | 6.01E-06 | 3.73E-06 | 3.73E-06 | 1.85E-06 |
| 615 | 258357.65 | 4084897.08 | 4.89E-04 | 7.07E-03 | 5.21E-03 | 5.21E-03 | 3.90E-03 | 7.43E-05 | 1.06E-03 | 8.14E-04 | 8.14E-04 | 4.47E-04 | 4.03E-05 | 5.83E-04 | 3.62E-04 | 3.62E-04 | 1.79E-04 |
| 616 | 258333.33 | 4084898.08 | 5.12E-04 | 7.40E-03 | 5.45E-03 | 5.45E-03 | 3.04E-03 | 7.77E-05 | 1.13E-03 | 8.52E-04 | 6.52E-04 | 4.68E-04 | 4.33E-06 | 6.10E-04 | 3.79E-04 | 3.79E-04 | 1.88E-04 |
| 617 | 258308.99 | 4084899.08 | 5.34E-04 | 7.57E-03 | 5.58E-03 | 5.58E-03 | 3.11E-03 | 7.95E-05 | 1.15E-03 | 8.71E-04 | 8.71E-04 | 4.79E-04 | 4.33E-05 | 6.34E-04 | 3.88E-04 | 3.88E-04 | 1.92E-04 |
| 618 | 358384.66 | 4084900.08 | 5.31E-04 | 7.68E-03 | 5.66E-03 | 5.66E-03 | 3.16E-03 | 8.06E-05 | 1.17E-03 | 8.84E-04 | 8.84E-04 | 4.86E-04 | 4.38E-05 | 6.33E-04 | 3.93E-04 | 3.93E-04 | 1.95E-04 |
| 619 | 258260.33 | 4084901.08 | 5.37E-04 | 7.76E-03 | 5.72E-03 | 5.72E-03 | 3.19E-03 | 8.15E-06 | 1.18E-03 | 6.94E-04 | 8.94E-04 | 4.91E-04 | 4.42E-05 | 6.40E-04 | 3.98E-04 | 3.98E-04 | 1.97E-04 |
| 620 | 358235.99 | 4084902.08 | 5.41E-04 | 7.82E-03 | 5.76E-03 | 5.76E-03 | 3.21E-03 | 8.20E-06 | 1.19E-03 | 9.00E-04 | 9.00E-04 | 4.95E-04 | 4.46E-05 | 6.45E-04 | 4.00E-04 | 4.00E-04 | 1.98E-04 |
| 631 | 258211.66 | 4084903.08 | 5.43E-04 | 7.85E-03 | 5.79E-03 | 5.79E-03 | 3.23E-03 | 8.24E-05 | 1.30E-03 | 9.04E-04 | 9.04E-04 | 4.97E-04 | 4.47E-05 | 6.47E-04 | 4.02E-04 | 4.02E-04 | 1.99E-04 |
| 632 | 258187.33 | 4084904.08 | 5.44E-04 | 7.87E-03 | 5.80E-03 | 5.80E-03 | 3.23E-03 | 8.36E-05 | 1.30E-03 | 9.06E-04 | 9.06E-04 | 4.98E-04 | 4.48E-05 | 6.49E-04 | 4.03E-04 | 4.03E-04 | 1.99E-04 |
| 623 | 258163 | 4084905.08 | 5.44E-04 | 7.87E-03 | 5.80E-03 | 5.80E-03 | 3.23E-03 | 8.26E-05 | 1.30E-03 | 9.06E-04 | 9.06E-04 | 4.98E-04 | 4.49E-06 | 6.49E-04 | 4.03E-04 | 4.03E-04 | 1.99E-04 |
| 624 | 258138.67 | 4084906.08 | 5.44E-04 | 7.86E-03 | 5.80E-03 | 5.80E-03 | 3.23E-03 | 6.25E-05 | 1.20E-03 | 9.05E-04 | 9.05E-04 | 4.98E-04 | 4.48E-05 | 6.48E-04 | 4.03E-04 | 4.03E-04 | 1.99E-04 |
| 625 | 358114.33 | 4084907.08 | 5.43E-04 | 7.85E-03 | 5.79E-03 | 5.79E-03 | 3.23E-03 | 8.24E-05 | 1.20E-03 | 9.04E-04 | 9.04E-04 | 4.97E-04 | 4.48E-05 | 6.47E-04 | 4.03E-04 | 4.02E-04 | 1.99E-04 |
| 626 | 358090 | 4084908.08 | 5.42E-04 | 7.83E-03 | 5.77E-03 | 5.77E-03 | 3.33E-03 | 8.22E-05 | 1.19E-03 | 9.02E-04 | 9.02E-04 | 4.96E-04 | 4.46E-05 | 6.46E-04 | 4.01E-04 | 4.01E-04 | 1.99E-04 |
| 627 | 358065.67 | 4084909.08 | 5.40E-04 | 7.61E-03 | 5.75E-03 | 5.75E-03 | 3.21E-03 | 8.19E-06 | 1.19E-03 | 6.98E-04 | 8.98E-04 | 4.94E-04 | 4.45E-05 | 6.44E-04 | 4.00E-04 | 4.00E-04 | 1.98E-04 |
| 628 | 258041.34 | 4084910.09 | 5.38E-04 | 7.77E-03 | 5.73E-03 | 5.73E-03 | 3.19E-03 | 8.16E-06 | 1.18E-03 | 8.95E-04 | 8.95E-04 | 4.93E-04 | 4.43E-05 | 6.41E-04 | 3.98E-04 | 3.98E-04 | 1.97E-04 |
| 629 | 258017.01 | 4084911.09 | 5.35E-04 | 7.73E-03 | 5.70E-03 | 5.70E-03 | 3.18E-03 | 8.13E-05 | 1.18E-03 | 8.90E-04 | 6.90E-04 | 4.89E-04 | 4.41E-05 | 6.38E-04 | 3.96E-04 | 3.96E-04 | 1.96E-04 |
| 630 | 257992.68 | 4084912.09 | 5.31E-04 | 7.69E-03 | 5.67E-03 | 5.67E-03 | 3.16E-03 | 8.06E-05 | 1.17E-03 | 6.85E-04 | 8.85E-04 | 4.86E-04 | 4.36E-05 | 6.34E-04 | 3.94E-04 | 3.94E-04 | 1.95E-04 |
| 631 | 257968.34 | 4084913.09 | 5.27E-04 | 7.83E-03 | 5.62E-03 | 5.62E-03 | 3.13E-03 | 8.00E-06 | 1.16E-03 | 6.76E-04 | 8.78E-04 | 4.83E-04 | 4.35E-05 | 6.29E-04 | 3.91E-04 | 3.91E-04 | 1.93E-04 |
| 632 | 257944.01 | 4084914.09 | 5.23E-04 | 7.56E-03 | 5.57E-03 | 5.57E-03 | 3.11E-03 | 7.93E-05 | 1.15E-03 | 8.70E-04 | 8.70E-04 | 4.78E-04 | 4.31E-05 | 6.23E-04 | 3.87E-04 | 3.87E-04 | 1.93E-04 |
| 633 | 257919.68 | 4084915.09 | 5.17E-04 | 7.48E-03 | 5.51E-03 | 5.51E-03 | 3.07E-03 | 7.84E-05 | 1.14E-03 | 8.60E-04 | 8.60E-04 | 4.73E-04 | 4.26E-05 | 6.16E-04 | 3.83E-04 | 3.83E-04 | 1.89E-04 |
| 634 | 257895.35 | 4084916.09 | 5.10E-04 | 7.36E-03 | 5.44E-03 | 5.44E-03 | 3.03E-03 | 7.74E-05 | 1.13E-03 | 8.49E-04 | 8.49E-04 | 4.67E-04 | 4.20E-05 | 6.08E-04 | 3.78E-04 | 3.78E-04 | 1.87E-04 |
| 635 | 257871.02 | 4084917.09 | 5.02E-04 | 7.26E-03 | 5.35E-03 | 5.35E-03 | 2.98E-03 | 7.63E-05 | 1.11E-03 | 6.35E-04 | 8.35E-04 | 4.59E-04 | 4.14E-05 | 5.98E-04 | 3.72E-04 | 3.72E-04 | 1.84E-04 |
| 636 | 257846.68 | 4084916.09 | 4.92E-04 | 7.11E-03 | 5.34E-03 | 5.34E-03 | 3.93E-03 | 7.46E-05 | 1.08E-03 | 8.19E-04 | 8.19E-04 | 4.50E-04 | 4.05E-05 | 5.85E-04 | 3.64E-04 | 3.64E-04 | 1.80E-04 |
| 637 | 357622.35 | 4084919.09 | 4.80E-04 | 6.94E-03 | 5.12E-03 | 5.12E-03 | 2.85E-03 | 7.29E-05 | 1.06E-03 | 7.99E-04 | 7.99E-04 | 4.39E-04 | 3.96E-05 | 5.72E-04 | 3.55E-04 | 3.55E-04 | 1.76E-04 |
| 638 | 257798.03 | 4084920.09 | 4.66E-04 | 6.73E-03 | 4.96E-03 | 4.96E-03 | 2.77E-03 | 7.07E-05 | 1.03E-03 | 7.75E-04 | 7.75E-04 | 4.26E-04 | 3.84E-05 | 5.55E-04 | 3.45E-04 | 3.45E-04 | 1.71E-04 |
| 639 | 257773.69 | 4084921.09 | 4.48E-04 | 6.48E-03 | 4.78E-03 | 4.78E-03 | 2.66E-03 | 6.80E-05 | 9.88E-04 | 7.46E-04 | 7.46E-04 | 4.10E-04 | 3.70E-05 | 5.34E-04 | 3.33E-04 | 3.32E-04 | 1.64E-04 |
| 640 | 257749.36 | 4084922.09 | 4.28E-04 | 6.18E-03 | 4.56E-03 | 4.66E-03 | 2.54E-03 | 6.49E-06 | 9.43E-04 | 7.13E-04 | 7.12E-04 | 3.91E-04 | 3.53E-05 | 5.10E-04 | 3.17E-04 | 3.17E-04 | 1.57E-04 |
| 641 | 257725.03 | 4084923.09 | 4.02E-04 | 5.83E-03 | 4.29E-03 | 4.29E-03 | 3.39E-03 | 6.11E-05 | 8.87E-04 | 6.70E-04 | 6.70E-04 | 3.68E-04 | 3.32E-05 | 4.80E-04 | 2.98E-04 | 2.98E-04 | 1.47E-04 |
| 642 | 257700.69 | 4084924.09 | 3.72E-04 | 5.38E-03 | 3.96E-03 | 3.96E-03 | 3.21E-03 | 5.64E-05 | 8.19E-04 | 6.19E-04 | 6.19E-04 | 3.40E-04 | 3.06E-05 | 4.43E-04 | 2.75E-04 | 3.75E-04 | 1.36E-04 |
| 643 | 257676.36 | 4084925.09 | 3.34E-04 | 4.83E-03 | 3.56E-03 | 3.56E-03 | 1.99E-03 | 5.07E-05 | 7.36E-04 | 5.56E-04 | 5.56E-04 | 3.06E-04 | 2.75E-05 | 3.98E-04 | 2.47E-04 | 3.47E-04 | 1.33E-04 |
| 644 | 257652.03 | 4084926.09 | 2.88E-04 | 4.17E-03 | 3.07E-03 | 3.07E-03 | 1.71E-03 | 4.37E-05 | 6.35E-04 | 4.80E-04 | 4.80E-04 | 2.64E-04 | 2.38E-05 | 3.44E-04 | 2.13E-04 | 2.13E-04 | 1.06E-04 |
| 645 | 257627.7 | 4084937.09 | 3.32E-04 | 3.35E-03 | 2.47E-03 | 3.47E-03 | 1.38E-03 | 3.51E-05 | 5.10E-04 | 3.85E-04 | 3.85E-04 | 2.12E-04 | 1.91E-05 | 2.76E-04 | 1.72E-04 | 1.72E-04 | 8.49E-05 |
| 646 | 257603.37 | 4084978.09 | 1.66E-04 | 2.40E-03 | 1.77E-03 | 1.77E-03 | 9.84E-04 | 2.51E-05 | 3.85E-04 | 2.76E-04 | 2.76E-04 | 1.52E-04 | 1.37E-05 | 1.97E-04 | 1.23E-04 | 1.33E-04 | 6.07E-05 |
| 647 | 257579.03 | 4084929.09 | 1.04E-04 | 1.50E-03 | 1.10E-03 | 1.10E-03 | 6.15E-04 | 1.57E-05 | 2.28E-04 | 1.72E-04 | 1.72E-04 | 9.47E-05 | 8.53E-06 | 1.23E-04 | 7.67E-05 | 7.67E-05 | 3.79E-05 |
| 648 | 257554.7 | 4084930.09 | 7.00E-05 | 1.01E-03 | 7.46E-04 | 7.46E-04 | 4.16E-04 | 1.06E-05 | 1.54E-04 | 1.16E-04 | 1.16E-04 | 6.40E-05 | 5.77E-06 | 8.34E-05 | 5.18E-05 | 5.18E-05 | 2.57E-06 |
| 649 | 258374.7 | 4084878.79 | 3.63E-04 | 5.25E-03 | 3.87E-03 | 3.87E-03 | 2.16E-03 | 5.51E-05 | 8.00E-04 | 6.04E-04 | 6.04E-04 | 3.32E-04 | 3.99E-05 | 4.33E-04 | 2.69E-04 | 3.69E-04 | 1.33E-04 |
| 650 | 258332.29 | 4084873.1 | 3.56E-04 | 5.14E-03 | 3.79E-03 | 3.79E-03 | 2.11E-03 | 5.40E-05 | 7.84E-04 | 5.93E-04 | 5.92E-04 | 3.25E-04 | 2.93E-05 | 4.24E-04 | 3.63E-04 | 2.63E-04 | 1.30E-04 |
| 651 | 258307.96 | 4084874.1 | 3.62E-04 | 5.23E-03 | 3.85E-03 | 3.85E-03 | 2.15E-03 | 5.49E-05 | 7.97E-04 | 6.03E-04 | 6.02E-04 | 3.31E-04 | 2.98E-05 | 4.31E-04 | 2.68E-04 | 3.68E-04 | 1.33E-04 |
| 653 | 358383.63 | 4084875.1 | 3.66E-04 | 5.29E-03 | 3.90E-03 | 3.90E-03 | 3.17E-03 | 5.55E-05 | 8.06E-04 | 6.09E-04 | 6.09E-04 | 3.35E-04 | 3.01E-05 | 4.36E-04 | 3.71E-04 | 3.71E-04 | 1.34E-04 |
| 653 | 358259.3 | 4084876.1 | 3.69E-04 | 5.33E-03 | 3.93E-03 | 3.93E-03 | 2.19E-03 | 5.59E-05 | 8.12E-04 | 6.13E-04 | 6.13E-04 | 3.37E-04 | 3.04E-06 | 4.39E-04 | 2.73E-04 | 2.73E-04 | 1.35E-04 |
| 654 | 258234.97 | 4084877.1 | 3.70E-04 | 5.36E-03 | 3.95E-03 | 3.95E-03 | 2.20E-03 | 5.62E-05 | 8.16E-04 | 6.17E-04 | 6.17E-04 | 3.39E-04 | 3.05E-05 | 4.42E-04 | 3.74E-04 | 3.74E-04 | 1.36E-04 |
| 655 | 258210.64 | 4084878.1 | 3.72E-04 | 5.38E-03 | 3.96E-03 | 3.96E-03 | 3.21E-03 | 5.64E-05 | 8.19E-04 | 6.19E-04 | 6.19E-04 | 3.40E-04 | 3.06E-05 | 4.43E-04 | 3.75E-04 | 3.75E-04 | 1.36E-04 |
| 656 | 358186.3 | 4084879.1 | 3.72E-04 | 5.39E-03 | 3.97E-03 | 3.97E-03 | 3.21E-03 | 5.65E-05 | 8.30E-04 | 6.30E-04 | 6.20E-04 | 3.41E-04 | 3.07E-05 | 4.44E-04 | 3.76E-04 | 2.76E-04 | 1.36E-04 |
| 657 | 258161.97 | 4084880.1 | 3.72E-04 | 5.39E-03 | 3.97E-03 | 3.97E-03 | 3.21E-03 | 5.65E-05 | 6.31E-04 | 6.20E-04 | 6.20E-04 | 3.41E-04 | 3.07E-05 | 4.44E-04 | 2.76E-04 | 3.76E-04 | 1.37E-04 |
| 658 | 258137.64 | 4084881.1 | 3.72E-04 | 5.38E-03 | 3.97E-03 | 3.97E-03 | 3.21E-03 | 5.65E-06 | 8.20E-04 | 6.19E-04 | 6.19E-04 | 3.40E-04 | 3.07E-06 | 4.44E-04 | 2.76E-04 | 2.76E-04 | 1.36E-04 |
| 659 | 258113.31 | 4084882.11 | 3.71E-04 | 5.37E-03 | 3.96E-03 | 3.96E-03 | 2.21E-03 | 5.63E-05 | 8.18E-04 | 6.18E-04 | 6.18E-04 | 3.40E-04 | 3.06E-05 | 4.43E-04 | 2.75E-04 | 2.75E-04 | 1.36E-04 |
| 660 | 258088.98 | 4084883.11 | 3.70E-04 | 5.35E-03 | 3.94E-03 | 3.94E-03 | 2.20E-03 | 5.61E-05 | 8.15E-04 | 8.16E-04 | 6.16E-04 | 3.39E-04 | 3.05E-05 | 4.41E-04 | 2.74E-04 | 3.74E-04 | 1.36E-04 |
| 661 | 258064.64 | 4084884.11 | 3.68E-04 | 5.32E-03 | 3.92E-03 | 3.92E-03 | 2.19E-03 | 5.59E-05 | 8.11E-04 | 6.13E-04 | 6.13E-04 | 3.37E-04 | 3.03E-05 | 4.39E-04 | 3.75E-04 | 3.75E-04 | 1.35E-04 |
| 662 | 258040.31 | 4084885.11 | 3.66E-04 | 5.29E-03 | 3.90E-03 | 3.90E-03 | 2.17E-03 | 5.55E-05 | 8.06E-04 | 6.09E-04 | 6.09E-04 | 3.35E-04 | 3.01E-05 | 4.36E-04 | 3.71E-04 | 3.71E-04 | 1.34E-04 |
| 663 | 258015.98 | 4084886.11 | 3.63E-04 | 5.35E-03 | 3.87E-03 | 3.87E-03 | 2.16E-03 | 5.51E-05 | 7.99E-04 | 6.04E-04 | 6.04E-04 | 3.32E-04 | 2.99E-05 | 4.33E-04 | 3.69E-04 | 3.69E-04 | 1.33E-04 |
| 664 | 357991.65 | 4084887.11 | 3.59E-04 | 5.19E-03 | 3.83E-03 | 3.83E-03 | 2.13E-03 | 5.45E-05 | 7.91E-04 | 5.98E-04 | 5.98E-04 | 3.29E-04 | 2.96E-05 | 4.28E-04 | 2.66E-04 | 2.66E-04 | 1.33E-04 |
| 665 | 257967.32 | 4084888.11 | 3.55E-04 | 5.13E-03 | 3.78E-03 | 3.78E-03 | 2.11E-03 | 5.39E-06 | 7.82E-04 | 5.91E-04 | 5.91E-04 | 3.25E-04 | 2.92E-06 | 4.23E-04 | 2.63E-04 | 2.63E-04 | 1.30E-04 |
| 666 | 257942.99 | 4084889.11 | 3.50E-04 | 5.06E-03 | 3.73E-03 | 3.73E-03 | 2.08E-03 | 5.31E-05 | 7.71E-04 | 5.82E-04 | 5.82E-04 | 3.20E-04 | 2.88E-05 | 4.17E-04 | 3.59E-04 | 2.59E-04 | 1.28E-04 |
| 667 | 257918.65 | 4084890.11 | 3.44E-04 | 4.97E-03 | 3.66E-03 | 3.66E-03 | 2.04E-03 | 5.22E-05 | 7.57E-04 | 5.73E-04 | 5.73E-04 | 3.15E-04 | 2.83E-06 | 4.10E-04 | 2.55E-04 | 3.55E-04 | 1.26E-04 |
| 668 | 257894.32 | 4084891.11 | 3.37E-04 | 4.87E-03 | 3.59E-03 | 3.59E-03 | 2.00E-03 | 5.11E-06 | 7.42E-04 | 5.60E-04 | 5.60E-04 | 3.08E-04 | 2.78E-05 | 4.01E-04 | 2.49E-04 | 3.49E-04 | 1.23E-04 |
| 669 | 257869.99 | 4084892.11 | 3.28E-04 | 4.75E-03 | 3.50E-03 | 3.50E-03 | 1.95E-03 | 4.98E-05 | 7.34E-04 | 5.47E-04 | 5.47E-04 | 3.01E-04 | 2.71E-05 | 3.93E-04 | 3.43E-04 | 3.43E-04 | 1.20E-04 |
| 670 | 357845.66 | 4084893.11 | 3.19E-04 | 4.61E-03 | 3.40E-03 | 3.40E-03 | 1.89E-03 | 4.84E-05 | 7.03E-04 | 5.30E-04 | 5.30E-04 | 2.92E-04 | 2.63E-05 | 3.80E-04 | 3.36E-04 | 3.36E-04 | 1.17E-04 |
| 671 | 357831.33 | 4084894.11 | 3.07E-04 | 4.44E-03 | 3.37E-03 | 3.37E-03 | 1.83E-03 | 4.66E-05 | 6.77E-04 | 5.11E-04 | 5.11E-04 | 2.81E-04 | 2.53E-05 | 3.66E-04 | 2.27E-04 | 2.27E-04 | 1.13E-04 |
| 672 | 357796.99 | 4084895.11 | 2.94E-04 | 4.25E-03 | 3.13E-03 | 3.13E-03 | 1.74E-03 | 4.45E-05 | 6.47E-04 | 4.89E-04 | 4.89E-04 | 2.69E-04 | 2.43E-05 | 3.50E-04 | 2.17E-04 | 3.17E-04 | 1.08E-04 |
| 673 | 257772.66 | 4084896.11 | 2.78E-04 | 4.01E-03 | 2.96E-03 | 2.96E-03 | 1.65E-03 | 4.21E-06 | 6.13E-04 | 4.62E-04 | 4.62E-04 | 2.54E-04 | 2.29E-05 | 3.31E-04 | 2.06E-04 | 3.06E-04 | 1.02E-04 |
| 674 | 357748.33 | 4084897.11 | 2.59E-04 | 3.74E-03 | 2.76E-03 | 2.76E-03 | 1.54E-03 | 3.93E-06 | 5.70E-04 | 4.31E-04 | 4.31E-04 | 2.37E-04 | 2.13E-05 | 3.09E-04 | 1.92E-04 | 1.93E-04 | 9.49E-05 |
| 675 | 257724 | 4084898.11 | 2.37E-04 | 3.43E-03 | 2.53E-03 | 2.53E-03 | 1.41E-03 | 3.50E-05 | 5.33E-04 | 3.94E-04 | 3.94E-04 | 2.17E-04 | 1.95E-05 | 2.62E-04 | 1.75E-04 | 1.75E-04 | 6.69E-05 |
| 676 | 257699.67 | 4084899.11 | 2.12E-04 | 3.06E-03 | 3.35E-03 | 2.26E-03 | 1.25E-03 | 3.31E-06 | 4.66E-04 | 3.52E-04 | 3.52E-04 | 1.94E-04 | 1.74E-05 | 2.52E-04 | 1.57E-04 | 1.57E-04 | 7.76E-05 |
| 677 | 257675.34 | 4084900.11 | 1.63E-04 | 3.64E-03 | 1.95E-03 | 1.95E-03 | 1.09E-03 | 3.77E-05 | 4.03E-04 | 3.04E-04 | 3.04E-04 | 1.67E-04 | 1.51E-05 | 3.18E-04 | 1.35E-04 | 1.35E-04 | 6.70E-05 |
| 678 | 357651 | 4084901.11 | 1.50E-04 | 3.18E-03 | 1.60E-03 | 1.60E-03 | 8.94E-04 | 2.28E-05 | 3.31E-04 | 2.50E-04 | 2.50E-04 | 1.38E-04 | 1.24E-05 | 1.79E-04 | 1.11E-04 | 1.11E-04 | 5.51E-05 |
| 679 | 357626.67 | 4084903.11 | 1.17E-04 | 1.69E-03 | 1.24E-03 | 1.24E-03 | 6.92E-04 | 1.77E-05 | 2.57E-04 | 1.94E-04 | 1.94E-04 | 1.07E-04 | 9.60E-06 | 1.39E-04 | 8.63E-06 | 8.63E-05 | 4.27E-05 |
| 680 | 257602.34 | 4084903.11 | 6.51E-05 | 1.23E-03 | 9.07E-04 | 9.07E-04 | 5.06E-04 | 1.29E-05 | 1.87E-04 | 1.43E-04 | 1.42E-04 | 7.79E-06 | 7.01E-06 | 1.01E-04 | 6.30E-06 | 6.30E-05 | 3.12E-06 |
| 681 | 257578.01 | 4084904.11 | 6.19E-05 | 8.95E-04 | 6.60E-04 | 6.60E-04 | 3.68E-04 | 9.40E-05 | 1.36E-04 | 1.03E-04 | 1.03E-04 | 5.67E-05 | 5.10E-06 | 7.38E-05 | 4.58E-05 | 4.58E-05 | 2.27E-05 |
| 682 | 257553.68 | 4084905.11 | 4.82E-05 | 6.98E-04 | 5.14E-04 | 5.14E-04 | 2.87E-04 | 7.33E-06 | 1.06E-04 | 8.03E-05 | 8.03E-05 | 4.41E-05 | 3.98E-06 | 5.75E-05 | 3.57E-06 | 3.57E-05 | 1.77E-05 |
| 683 | 258373.67 | 4084853.81 | 2.79E-04 | 4.03E-03 | 2.97E-03 | 2.97E-03 | 1.66E-03 | 4.23E-05 | 6.14E-04 | 4.64E-04 | 4.64E-04 | 2.55E-04 | 2.30E-06 | 3.32E-04 | 2.06E-04 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 465 | 259342.86 | 4085935.77 | 3.17E-06 | 4.58E-06 | 3.38E-05 | 3.38E-05 | 1.68E-05 | 4.81E-07 | 6.98E-06 | 5.26E-06 | 5.28E-06 | 2.90E-06 | 2.61E-07 | 3.78E-06 | 2.35E-06 | 2.35E-06 | 1.16E-06 |
| 466 | 259334.18 | 4085958.84 | 3.14E-06 | 4.53E-06 | 3.34E-05 | 3.34E-05 | 1.66E-05 | 4.76E-07 | 6.91E-06 | 5.22E-06 | 5.22E-06 | 2.87E-06 | 2.58E-07 | 3.74E-06 | 2.32E-06 | 2.32E-06 | 1.15E-06 |
| 467 | 259325.5 | 4085981.91 | 3.10E-06 | 4.46E-06 | 3.31E-05 | 3.31E-05 | 1.85E-05 | 4.71E-07 | 6.84E-06 | 5.17E-06 | 5.17E-06 | 2.84E-06 | 2.56E-07 | 3.70E-06 | 2.30E-06 | 2.30E-06 | 1.14E-06 |
| 468 | 259294.45 | 4086015.33 | 3.11E-06 | 4.50E-06 | 3.31E-05 | 3.31E-05 | 1.85E-05 | 4.72E-07 | 6.85E-06 | 5.17E-06 | 5.17E-06 | 2.84E-06 | 2.56E-07 | 3.71E-06 | 2.30E-06 | 2.50E-06 | 1.14E-06 |
| 469 | 259272.08 | 4086025.68 | 3.14E-06 | 4.54E-06 | 3.35E-06 | 3.35E-05 | 1.87E-06 | 4.77E-07 | 6.92E-06 | 5.25E-06 | 5.23E-06 | 2.87E-06 | 2.59E-07 | 3.75E-06 | 2.33E-06 | 2.33E-06 | 1.15E-06 |
| 470 | 259246.71 | 4086036.02 | 3.17E-06 | 4.59E-06 | 3.38E-05 | 3.38E-05 | 1.69E-06 | 4.82E-07 | 6.99E-06 | 5.28E-06 | 5.28E-06 | 2.90E-06 | 2.62E-07 | 3.78E-06 | 2.35E-06 | 2.35E-06 | 1.16E-06 |
| 471 | 259227.34 | 4086046.37 | 3.21E-06 | 4.64E-06 | 3.42E-05 | 3.42E-06 | 1.61E-05 | 4.87E-07 | 7.07E-06 | 5.34E-06 | 5.34E-06 | 2.94E-06 | 2.65E-07 | 3.83E-06 | 2.38E-06 | 2.38E-06 | 1.18E-06 |
| 472 | 259204.97 | 4086056.71 | 3.24E-06 | 4.69E-06 | 3.46E-05 | 3.46E-05 | 1.93E-05 | 4.92E-07 | 7.14E-06 | 5.40E-06 | 5.40E-06 | 2.97E-06 | 2.67E-07 | 3.86E-06 | 2.40E-06 | 2.40E-06 | 1.19E-06 |
| 473 | 259182.6 | 4086067.06 | 3.27E-06 | 4.74E-05 | 3.49E-05 | 3.49E-05 | 1.95E-05 | 4.97E-07 | 7.22E-06 | 5.41E-06 | 5.45E-06 | 3.00E-06 | 2.70E-07 | 3.90E-06 | 2.42E-06 | 2.42E-06 | 1.20E-06 |
| 474 | 259160.23 | 4086077.41 | 3.31E-06 | 4.78E-06 | 3.53E-05 | 3.53E-06 | 1.97E-05 | 5.02E-07 | 7.29E-06 | 5.50E-06 | 5.50E-06 | 3.02E-06 | 2.73E-07 | 3.94E-06 | 2.45E-06 | 2.45E-06 | 1.21E-06 |
| 475 | 259137.86 | 4086087.75 | 3.35E-06 | 4.84E-06 | 3.57E-05 | 3.57E-06 | 1.99E-06 | 5.08E-07 | 7.37E-06 | 5.57E-06 | 5.57E-06 | 3.06E-06 | 2.76E-07 | 3.99E-06 | 2.46E-06 | 2.46E-06 | 1.23E-06 |
| 476 | 259115.49 | 4086098.1 | 3.39E-06 | 4.90E-06 | 3.61E-05 | 3.61E-05 | 2.01E-05 | 5.14E-07 | 7.46E-06 | 5.64E-06 | 5.64E-06 | 3.10E-06 | 2.79E-07 | 4.04E-06 | 2.51E-06 | 2.51E-06 | 1.24E-06 |
| 477 | 259093.11 | 4086108.45 | 3.43E-06 | 4.96E-05 | 3.66E-06 | 3.66E-05 | 2.04E-05 | 5.21E-07 | 7.56E-06 | 5.71E-06 | 5.71E-06 | 3.14E-06 | 2.83E-07 | 4.09E-06 | 2.54E-06 | 2.54E-06 | 1.26E-06 |
| 478 | 259070.74 | 4086118.79 | 3.48E-06 | 5.03E-05 | 3.71E-05 | 3.71E-05 | 2.07E-05 | 5.26E-07 | 7.66E-06 | 5.79E-06 | 5.79E-06 | 3.18E-06 | 2.87E-07 | 4.15E-06 | 2.58E-06 | 2.58E-06 | 1.27E-06 |
| 479 | 259048.37 | 4086129.14 | 3.53E-06 | 5.11E-05 | 3.76E-05 | 3.76E-05 | 2.10E-05 | 5.36E-07 | 7.78E-06 | 5.88E-06 | 5.88E-06 | 3.23E-06 | 2.91E-07 | 4.21E-06 | 2.61E-06 | 2.61E-06 | 1.29E-06 |
| 480 | 259026 | 4086139.49 | 3.59E-06 | 5.19E-06 | 3.83E-05 | 3.83E-05 | 2.13E-05 | 5.45E-07 | 7.91E-06 | 5.98E-06 | 5.66E-06 | 3.29E-06 | 2.96E-07 | 4.28E-06 | 2.66E-06 | 2.66E-06 | 1.32E-06 |
| 481 | 259003.63 | 4086149.63 | 3.66E-06 | 5.29E-06 | 3.90E-06 | 3.90E-06 | 2.17E-06 | 5.55E-07 | 8.06E-06 | 6.09E-06 | 6.09E-06 | 3.35E-06 | 3.01E-07 | 4.36E-06 | 2.71E-06 | 2.71E-06 | 1.34E-06 |
| 482 | 258981.26 | 4086160.18 | 3.73E-06 | 5.40E-05 | 3.98E-06 | 3.98E-05 | 2.22E-05 | 5.67E-07 | 8.23E-06 | 6.21E-06 | 6.21E-06 | 3.42E-06 | 3.08E-07 | 4.45E-06 | 2.76E-06 | 2.76E-06 | 1.37E-06 |
| 483 | 258958.89 | 4086170.52 | 3.82E-06 | 5.52E-05 | 4.07E-05 | 4.07E-06 | 2.27E-05 | 5.79E-07 | 8.41E-06 | 6.35E-06 | 6.35E-06 | 3.49E-06 | 3.15E-07 | 4.55E-06 | 2.83E-06 | 2.83E-06 | 1.40E-06 |
| 484 | 258936.52 | 4086180.87 | 3.91E-06 | 5.65E-05 | 4.16E-06 | 4.16E-05 | 2.32E-06 | 5.93E-07 | 6.61E-06 | 6.50E-06 | 6.50E-06 | 3.57E-06 | 3.22E-07 | 4.66E-06 | 2.89E-06 | 2.89E-06 | 1.43E-06 |
| 485 | 258914.15 | 4086191.22 | 4.00E-06 | 5.78E-05 | 4.26E-05 | 4.26E-06 | 2.37E-05 | 6.06E-07 | 8.80E-06 | 6.65E-06 | 6.65E-06 | 3.66E-06 | 3.29E-07 | 4.76E-06 | 2.96E-06 | 2.96E-06 | 1.46E-06 |
| 486 | 258891.77 | 4086201.56 | 4.08E-06 | 5.91E-05 | 4.35E-05 | 4.35E-06 | 2.43E-05 | 6.20E-07 | 9.00E-06 | 6.80E-06 | 6.80E-06 | 3.74E-06 | 3.37E-07 | 4.87E-06 | 3.02E-06 | 3.02E-06 | 1.50E-06 |
| 487 | 258869.4 | 4086211.91 | 4.17E-06 | 6.03E-05 | 4.44E-05 | 4.44E-05 | 2.48E-05 | 6.33E-07 | 9.18E-06 | 6.94E-06 | 6.94E-06 | 3.81E-06 | 3.44E-07 | 4.97E-06 | 3.09E-06 | 3.09E-06 | 1.53E-06 |
| 488 | 258847.03 | 4086222.26 | 4.24E-06 | 6.13E-05 | 4.52E-05 | 4.52E-06 | 2.52E-05 | 6.43E-07 | 9.34E-06 | 7.06E-06 | 7.06E-06 | 3.88E-06 | 3.49E-07 | 5.05E-06 | 3.14E-06 | 3.14E-06 | 1.55E-06 |
| 489 | 258824.66 | 4086232.6 | 4.50E-06 | 6.22E-05 | 4.56E-05 | 4.59E-05 | 2.56E-05 | 6.53E-07 | 9.48E-06 | 7.16E-06 | 7.16E-06 | 3.94E-06 | 3.55E-07 | 5.13E-06 | 3.19E-06 | 3.19E-06 | 1.58E-06 |
| 490 | 258802.29 | 4086242.95 | 4.35E-06 | 6.30E-05 | 4.64E-05 | 4.64E-05 | 2.59E-05 | 6.61E-07 | 9.59E-06 | 7.25E-06 | 7.25E-06 | 3.98E-06 | 3.59E-07 | 5.19E-06 | 3.22E-06 | 3.22E-06 | 1.60E-06 |
| 491 | 258779.62 | 4086253.3 | 4.40E-06 | 6.36E-06 | 4.69E-06 | 4.69E-06 | 2.61E-06 | 6.67E-07 | 6.69E-06 | 7.32E-06 | 7.32E-06 | 4.02E-06 | 3.62E-07 | 5.24E-06 | 3.26E-06 | 3.76E-06 | 1.61E-06 |
| 492 | 258757.55 | 4086263.64 | 4.43E-06 | 6.41E-05 | 4.72E-05 | 4.72E-05 | 2.63E-06 | 6.72E-07 | 9.76E-06 | 7.37E-06 | 7.37E-06 | 4.05E-06 | 3.65E-07 | 5.28E-06 | 3.28E-06 | 3.28E-06 | 1.62E-06 |
| 493 | 258735.18 | 4086273.99 | 4.46E-06 | 6.45E-05 | 4.76E-05 | 4.76E-05 | 2.65E-05 | 6.77E-07 | 9.85E-06 | 7.45E-06 | 7.43E-06 | 4.08E-06 | 3.68E-07 | 5.32E-06 | 3.30E-06 | 3.30E-06 | 1.64E-06 |
| 494 | 258712.81 | 4086284.33 | 4.49E-06 | 6.49E-05 | 4.78E-05 | 4.78E-05 | 2.67E-05 | 6.81E-07 | 9.89E-06 | 7.47E-06 | 7.47E-06 | 4.11E-06 | 3.70E-07 | 5.35E-06 | 3.32E-06 | 3.32E-06 | 1.64E-06 |
| 495 | 258690.43 | 4086294.68 | 4.51E-06 | 6.53E-05 | 4.81E-05 | 4.81E-05 | 2.68E-05 | 6.85E-07 | 9.95E-06 | 7.51E-06 | 7.51E-06 | 4.13E-06 | 3.72E-07 | 5.38E-06 | 3.34E-06 | 3.34E-06 | 1.65E-06 |
| 496 | 258668.06 | 4086305.03 | 4.54E-06 | 6.57E-05 | 4.85E-06 | 4.85E-05 | 2.70E-05 | 6.90E-07 | 1.00E-06 | 7.56E-06 | 7.56E-06 | 4.16E-06 | 3.75E-07 | 5.42E-06 | 3.37E-06 | 3.37E-06 | 1.67E-06 |
| 497 | 258645.69 | 4086315.37 | 4.58E-06 | 6.62E-05 | 4.88E-05 | 4.88E-06 | 2.72E-06 | 6.95E-07 | 1.01E-05 | 7.62E-06 | 7.62E-06 | 4.19E-06 | 3.77E-07 | 5.46E-06 | 3.39E-06 | 3.39E-06 | 1.68E-06 |
| 498 | 258623.32 | 4086325.72 | 4.62E-06 | 6.68E-06 | 4.92E-06 | 4.92E-05 | 2.74E-05 | 7.01E-07 | 1.02E-06 | 7.68E-06 | 7.68E-06 | 4.22E-06 | 3.61E-07 | 5.50E-06 | 3.42E-06 | 3.42E-06 | 1.69E-06 |
| 499 | 258600.95 | 4086336.07 | 4.66E-06 | 6.74E-05 | 4.97E-05 | 4.97E-06 | 2.77E-06 | 7.07E-07 | 1.03E-06 | 7.76E-06 | 7.76E-06 | 4.26E-06 | 3.84E-07 | 5.56E-06 | 3.45E-06 | 3.45E-06 | 1.71E-06 |
| 500 | 258578.58 | 4086346.41 | 4.71E-06 | 6.81E-05 | 5.02E-05 | 5.02E-06 | 2.80E-06 | 7.15E-07 | 1.04E-06 | 7.84E-06 | 7.84E-06 | 4.31E-06 | 3.88E-07 | 5.61E-06 | 3.49E-06 | 3.49E-06 | 1.73E-06 |
| 501 | 258556.21 | 4086356.76 | 4.76E-06 | 6.88E-05 | 5.07E-05 | 5.07E-05 | 2.83E-05 | 7.22E-07 | 1.05E-05 | 7.92E-06 | 7.92E-06 | 4.36E-06 | 3.92E-07 | 5.68E-06 | 3.53E-06 | 3.53E-06 | 1.74E-06 |
| 502 | 258533.84 | 4086367.11 | 4.82E-06 | 6.96E-05 | 5.13E-05 | 5.15E-05 | 2.85E-06 | 7.31E-07 | 1.06E-05 | 8.02E-06 | 8.02E-06 | 4.41E-06 | 3.97E-07 | 5.74E-06 | 3.57E-06 | 3.57E-06 | 1.77E-06 |
| 503 | 258511.47 | 4086377.45 | 4.87E-06 | 7.05E-06 | 5.19E-05 | 5.19E-06 | 2.90E-06 | 7.40E-07 | 1.07E-06 | 8.11E-06 | 6.11E-06 | 4.46E-06 | 4.02E-07 | 5.81E-06 | 3.61E-06 | 3.61E-06 | 1.79E-06 |
| 504 | 258489.09 | 4086387.8 | 4.93E-06 | 7.13E-06 | 5.26E-06 | 5.26E-05 | 2.93E-06 | 7.49E-07 | 1.09E-06 | 8.21E-06 | 6.21E-06 | 4.51E-06 | 4.07E-07 | 5.88E-06 | 3.65E-06 | 3.65E-06 | 1.61E-06 |
| 505 | 258466.72 | 4086398.14 | 4.99E-06 | 7.22E-05 | 5.32E-05 | 5.32E-06 | 2.97E-05 | 7.58E-07 | 1.10E-06 | 8.31E-06 | 8.31E-06 | 4.57E-06 | 4.12E-07 | 5.95E-06 | 3.70E-06 | 3.70E-06 | 1.83E-06 |
| 506 | 258444.15 | 4086408.49 | 5.05E-06 | 7.31E-06 | 5.39E-05 | 5.39E-06 | 3.00E-06 | 7.67E-07 | 1.11E-06 | 6.41E-06 | 6.41E-06 | 4.62E-06 | 4.17E-07 | 6.02E-06 | 3.74E-06 | 3.74E-06 | 1.85E-06 |
| 507 | 259663.91 | 4085082.19 | 5.03E-06 | 7.27E-05 | 5.36E-05 | 5.36E-05 | 2.99E-06 | 7.63E-07 | 1.11E-06 | 6.37E-06 | 6.37E-06 | 4.60E-06 | 4.14E-07 | 5.99E-06 | 3.72E-06 | 3.72E-06 | 1.84E-06 |
| 508 | 259663.18 | 4085057.43 | 5.10E-06 | 7.38E-05 | 5.44E-05 | 5.44E-05 | 3.03E-05 | 7.74E-07 | 1.12E-06 | 6.49E-06 | 8.46E-06 | 4.67E-06 | 4.21E-07 | 6.08E-06 | 3.76E-06 | 3.78E-06 | 1.87E-06 |
| 509 | 259662.46 | 4085032.67 | 5.20E-06 | 7.52E-05 | 5.54E-05 | 5.54E-05 | 3.09E-05 | 7.89E-07 | 1.11E-06 | 6.65E-06 | 8.65E-06 | 4.76E-06 | 4.28E-07 | 6.20E-06 | 3.85E-06 | 3.85E-06 | 1.90E-06 |
| 510 | 259661.74 | 4085007.92 | 5.31E-06 | 7.68E-05 | 5.66E-05 | 5.66E-05 | 3.16E-06 | 8.06E-07 | 1.17E-05 | 8.84E-06 | 8.84E-06 | 4.86E-06 | 4.38E-07 | 6.33E-06 | 3.93E-06 | 3.93E-06 | 1.95E-06 |
| 511 | 259661.02 | 4084983.16 | 5.45E-06 | 7.88E-05 | 5.81E-05 | 5.61E-06 | 3.24E-05 | 8.27E-07 | 1.20E-05 | 9.07E-06 | 9.07E-06 | 4.99E-06 | 4.49E-07 | 6.50E-06 | 4.04E-06 | 4.04E-06 | 2.00E-06 |
| 512 | 259660.29 | 4084958.4 | 5.61E-06 | 6.11E-06 | 5.98E-06 | 5.98E-06 | 3.33E-05 | 6.51E-07 | 1.24E-06 | 9.34E-06 | 9.34E-06 | 5.15E-06 | 4.62E-07 | 6.69E-06 | 4.15E-06 | 4.15E-06 | 2.06E-06 |
| 513 | 259659.57 | 4084933.65 | 5.79E-06 | 6.37E-06 | 6.17E-06 | 6.17E-05 | 3.44E-05 | 6.79E-07 | 1.28E-06 | 9.64E-06 | 9.64E-06 | 5.30E-06 | 4.77E-07 | 6.90E-06 | 4.29E-06 | 4.29E-06 | 2.12E-06 |
| 514 | 259658.85 | 4084908.89 | 5.97E-06 | 8.64E-05 | 6.37E-06 | 6.37E-05 | 3.55E-05 | 9.07E-07 | 1.32E-05 | 9.94E-06 | 9.94E-06 | 5.47E-06 | 4.92E-07 | 7.12E-06 | 4.42E-06 | 4.42E-06 | 2.19E-06 |
| 515 | 259658.13 | 4084884.14 | 6.16E-06 | 8.91E-05 | 6.56E-05 | 6.56E-05 | 3.66E-05 | 9.35E-07 | 1.36E-05 | 1.02E-05 | 1.02E-06 | 5.63E-06 | 5.08E-07 | 7.34E-06 | 4.56E-06 | 4.56E-06 | 2.26E-06 |
| 516 | 259835.12 | 4085099.5 | 4.16E-06 | 6.06E-05 | 4.47E-05 | 4.47E-05 | 2.49E-05 | 6.36E-07 | 6.23E-06 | 6.97E-06 | 6.97E-06 | 3.83E-06 | 3.45E-07 | 5.00E-06 | 3.10E-06 | 3.10E-06 | 1.34E-06 |
| 517 | 259846.41 | 4085122.65 | 4.19E-06 | 6.06E-05 | 4.46E-05 | 4.46E-05 | 2.49E-05 | 6.36E-07 | 9.23E-06 | 6.97E-06 | 6.97E-06 | 3.83E-06 | 3.45E-07 | 4.99E-06 | 3.10E-06 | 3.10E-06 | 1.54E-06 |
| 518 | 259837.7 | 4085145.79 | 4.19E-06 | 6.06E-05 | 4.46E-05 | 4.46E-05 | 2.49E-05 | 6.38E-07 | 9.23E-06 | 6.97E-06 | 6.97E-06 | 3.63E-06 | 3.45E-07 | 4.99E-06 | 3.10E-06 | 3.10E-06 | 1.54E-06 |
| 519 | 259829 | 4085168.94 | 4.18E-06 | 6.05E-06 | 4.45E-06 | 4.46E-06 | 2.46E-06 | 6.35E-07 | 9.22E-06 | 6.96E-06 | 6.96E-06 | 3.83E-06 | 3.45E-07 | 4.99E-06 | 3.10E-06 | 3.10E-06 | 1.53E-06 |
| 520 | 259820.29 | 4085192.09 | 4.17E-06 | 6.04E-05 | 4.45E-05 | 4.45E-05 | 2.48E-06 | 6.33E-07 | 9.20E-06 | 6.95E-06 | 6.95E-06 | 3.82E-06 | 3.44E-07 | 4.98E-06 | 3.09E-06 | 3.09E-06 | 1.53E-06 |
| 521 | 259811.59 | 4085215.23 | 4.16E-06 | 6.01E-05 | 4.43E-05 | 4.43E-06 | 2.47E-06 | 6.31E-07 | 9.16E-06 | 6.92E-06 | 6.92E-06 | 3.80E-06 | 3.43E-07 | 4.95E-06 | 3.08E-06 | 3.08E-06 | 1.52E-06 |
| 522 | 259802.88 | 4085238.38 | 4.12E-06 | 5.97E-05 | 4.40E-05 | 4.40E-05 | 2.45E-05 | 6.26E-07 | 9.09E-06 | 6.87E-06 | 6.87E-06 | 3.77E-06 | 3.40E-07 | 4.92E-06 | 3.05E-06 | 3.05E-06 | 1.51E-06 |
| 523 | 259794.17 | 4085261.53 | 4.08E-06 | 5.90E-05 | 4.35E-05 | 4.35E-05 | 2.43E-05 | 6.19E-07 | 6.99E-06 | 6.79E-06 | 6.79E-06 | 3.74E-06 | 3.36E-07 | 4.87E-06 | 3.02E-06 | 3.02E-06 | 1.50E-06 |
| 524 | 259785.47 | 4085284.68 | 4.03E-06 | 5.82E-05 | 4.29E-05 | 4.29E-05 | 2.39E-06 | 6.11E-07 | 8.87E-06 | 6.70E-06 | 6.70E-06 | 3.68E-06 | 3.32E-07 | 4.80E-06 | 2.98E-06 | 2.98E-06 | 1.48E-06 |
| 525 | 259776.76 | 4085307.82 | 3.96E-06 | 5.73E-05 | 4.22E-05 | 4.22E-06 | 2.36E-06 | 6.01E-07 | 6.73E-06 | 6.60E-06 | 6.60E-06 | 3.63E-06 | 3.27E-07 | 4.72E-06 | 2.93E-06 | 2.93E-06 | 1.45E-06 |
| 526 | 259768.05 | 4085330.97 | 3.90E-06 | 5.63E-05 | 4.15E-06 | 4.15E-06 | 2.32E-05 | 5.91E-07 | 8.56E-06 | 6.48E-06 | 6.48E-06 | 3.56E-06 | 3.21E-07 | 4.64E-06 | 2.88E-06 | 2.88E-06 | 1.43E-06 |
| 527 | 259759.35 | 4085354.12 | 3.82E-06 | 5.53E-05 | 4.08E-05 | 4.08E-05 | 2.27E-05 | 5.80E-07 | 6.43E-06 | 6.36E-06 | 6.36E-06 | 3.50E-06 | 3.15E-07 | 4.56E-06 | 2.83E-06 | 2.83E-06 | 1.40E-06 |
| 528 | 259750.64 | 4085377.26 | 3.75E-06 | 5.43E-05 | 4.00E-06 | 4.00E-06 | 2.23E-05 | 5.70E-07 | 6.27E-06 | 6.25E-06 | 6.25E-06 | 3.44E-06 | 3.09E-07 | 4.48E-06 | 2.78E-06 | 2.78E-06 | 1.38E-06 |
| 529 | 259741.94 | 4085400.41 | 3.68E-06 | 5.33E-05 | 3.93E-05 | 3.93E-05 | 2.19E-05 | 5.59E-07 | 6.12E-06 | 6.13E-06 | 6.13E-06 | 3.37E-06 | 3.04E-07 | 4.39E-06 | 2.73E-06 | 2.73E-06 | 1.35E-06 |
| 530 | 259733.23 | 4085423.56 | 3.62E-06 | 5.23E-05 | 3.86E-06 | 3.86E-05 | 2.15E-05 | 5.49E-07 | 7.97E-06 | 6.02E-06 | 6.02E-06 | 3.31E-06 | 2.98E-07 | 4.31E-06 | 2.68E-06 | 2.68E-06 | 1.33E-06 |
| 531 | 259724.52 | 4085446.71 | 3.55E-06 | 5.14E-05 | 3.79E-05 | 3.79E-06 | 2.11E-05 | 5.39E-07 | 7.83E-06 | 5.91E-06 | 5.91E-06 | 3.25E-06 | 2.93E-07 | 4.24E-06 | 2.63E-06 | 2.63E-06 | 1.30E-06 |
| 532 | 159715.82 | 4085469.63 | 3.49E-06 | 5.05E-05 | 3.72E-05 | 3.72E-06 | 2.08E-05 | 5.30E-07 | 7.70E-06 | 5.82E-06 | 5.82E-06 | 3.20E-06 | 2.88E-07 | 4.17E-06 | 2.59E-06 | 2.56E-06 | 1.28E-06 |
| 533 | 259707.11 | 4085493 | 3.44E-06 | 4.97E-05 | 3.67E-06 | 3.67E-06 | 2.04E-05 | 5.22E-07 | 7.58E-06 | 5.72E-06 | 5.72E-06 | 3.15E-06 | 2.83E-07 | 4.10E-06 | 2.55E-06 | 2.55E-06 | 1.26E-06 |
| 534 | 259698.41 | 4085516.15 | 3.39E-06 | 4.90E-06 | 3.61E-06 | 3.61E-06 | 2.01E-05 | 5.14E-07 | 7.47E-06 | 5.64E-06 | 5.64E-06 | 3.10E-06 | 2.79E-07 | 4.04E-06 | 2.51E-06 | 2.51E-06 | 1.24E-06 |
| 535 | 259689.7 | 4085539.29 | 3.34E-06 | 4.83E-06 | 3.56E-05 | 3.56E-05 | 1.99E-05 | 5.07E-07 | 7.36E-06 | 5.56E-06 | 5.56E-06 | 3.06E-06 | 2.75E-07 | 3.98E-06 | 2.48E-06 | 2.48E-06 | 1.23E-06 |
| 536 | 259680.99 | 4085562.44 | 3.31E-06 | 4.78E-05 | 3.53E-05 | 3.53E-06 | 1.97E-05 | 5.02E-07 | 7.29E-06 | 5.50E-06 | 5.50E-06 | 3.03E-06 | 2.73E-07 | 3.94E-06 | 2.45E-06 | 2.45E-06 | 1.21E-06 |
| 537 | 259672.29 | 4085585.59 | 3.27E-06 | 4.73E-06 | 3.49E-06 | 3.49E-06 | 1.94E-06 | 4.96E-07 | 7.21E-06 | 5.44E-06 | 5.44E-06 | 2.99E-06 | 2.70E-07 | 3.90E-06 | 2.42E-06 | 2.42E-06 | 1.20E-06 |
| 538 | 159663.58 | 4085608.73 | 3.24E-06 | 4.69E-06 | 3.45E-05 | 3.45E-05 | 1.95E-05 | 4.92E-07 | 7.14E-06 | 5.39E-06 | 5.39E-06 | 2.96E-06 | 2.67E-07 | 3.86E-06 | 2.40E-06 | 2.40E-06 | 1.19E-06 |
| 539 | 159654.88 | 4085631.88 | 3.21E-06 | 4.65E-06 | 3.43E-05 | 3.41E-06 | 1.91E-05 | 4.88E-07 | 7.08E-06 | 5.35E-06 | 5.35E-06 | 2.94E-06 | 2.65E-07 | 3.83E-06 | 2.38E-06 | 2.38E-06 | 1.18E-06 |
| 540 | 259646.17 | 4085655.03 | 3.19E-06 | 4.61E-06 | 3.40E-05 | 3.40E-05 | 1.90E-05 | 4.64E-07 | 7.03E-06 | 5.31E-06 | 5.31E-06 | 2.92E-06 | 2.63E-07 | 3.80E-06 | 2.36E-06 | 2.36E-06 | 1.17E-06 |
| 541 | 259637.46 | 4085678.18 | 3.17E-06 | 4.58E-06 | 3.38E-05 | 3.38E-05 | 1.88E-06 | 4.81E-07 | 6.98E-06 | 5.27E-06 | 5.27E-06 | 2.90E-06 | 2.61E-07 | 3.78E-06 | 2.35E-06 | 2.35E-06 | 1.16E-06 |
| 542 | 259628.76 | 4085701.32 | 3.15E-06 | 4.55E-06 | 3.35E-05 | 3.35E-05 | 1.87E-05 | 4.77E-07 | 6.93E-06 | 5.24E-06 | 5.24E-06 | 2.68E-06 | 2.59E-07 | 3.75E-06 | 2.33E-06 | 2.33E-06 | 1.15E-06 |
| 543 | 259620.05 | 4085724.47 | 3.12E-06 | 4.52E-06 | 3.33E-05 | 3.33E-05 | 1.86E-06 | 4.74E-07 | 6.88E-06 | 5.20E-06 | 5.20E-06 | 2.86E-06 | 2.57E-07 | 3.72E-06 | 2.31E-06 | 2.31E-06 | 1.14E-06 |
| 544 | 259611.35 | 4085747.62 | 3.09E-06 | 4.48E-05 | 3.30E-05 | 3.30E-05 | 1.64E-05 | 4.70E-07 | 6.82E-06 | 5.15E-06 | 5.15E-06 | 2.83E-06 | 2.55E-07 | 3.69E-06 | 2.29E-06 | 2.29E-06 | 1.13E-06 |
| 545 | 159602.84 | 4085770.76 | 3.07E-06 | 4.45E-05 | 3.28E-05 | 3.28E-05 | 1.83E-05 | 4.86E-07 | 6.77E-06 | 5.12E-06 | 5.12E-06 | 2.81E-06 | 2.53E-07 | 3.66E-06 | 2.28E-06 | 2.28E-06 | 1.13E-06 |
| 546 | 159563.93 | 4085793.91 | 3.05E-06 | 4.41E-05 | 3.25E-06 | 3.25E-06 | 1.81E-05 | 4.63E-07 | 6.72E-06 | 5.08E-06 | 5.08E-06 | 2.79E-06 | 2.51E-07 | 3.64E-06 | 2.26E-06 | 2.26E-06 | 1.12E-06 |
| 547 | 259585.23 | 4085817.06 | 3.03E-06 | 4.38E-05 | 3.23E-05 | 3.23E-05 | 1.80E-05 | 4.59E-07 | 6.67E-06 | 5.04E-06 | 5.04E-06 | 2.77E-06 | 2.49E-07 | 3.61E-06 | 2.24E-06 | 2.24E-06 | 1.11E-06 |
| 548 | 259576.52 | 4085840.21 | 3.00E-06 | 4.34E-05 | 3.20E-06 | 3.20E-05 | 1.78E-05 | 4.56E-07 | 6.61E-06 | 5.00E-06 | 5.00E-06 | 2.75E-06 | 2.47E-07 | 3.58E-06 | 2.22E-06 | 2.22E-06 | 1.10E-06 |
| 549 | 259567.82 | 4085863.35 | 2.97E-06 | 4.30E-06 | 3.17E-06 | 3.17E-05 | 1.77E-06 | 4.51E-07 | 6.55E-06 | 4.95E-06 | 4.95E-06 | 2.72E-06 | 2.45E-07 | 3.54E-06 | 2.20E-06 | 2.20E-06 | 1.09E-06 |
| 550 | 259559.11 | 4085886.5 | 2.94E-06 | 4.25E-05 | 3.13E-05 | 3.13E-05 | 1.75E-06 | 4.45E-07 | 6.46E-06 | 4.89E-06 | 4.89E-06 | 2.69E-06 | 2.42E-07 | 3.51E-06 | 2.18E-06 | 2.18E-06 | 1.08E-06 |
| 551 | 259550.4 | 4085909.65 | 2.91E-06 | 4.20E-05 | 3.10E-06 | 3.10E-06 | 1.73E-06 | 4.41E-07 | 6.40E-06 | 4.84E-06 | 4.84E-06 | 2.68E-06 | 2.40E-07 | 3.46E-06 | 2.15E-06 | 2.15E-06 | 1.07E-06 |
| 552 | 259541.7 | 4085632.79 | 2.87E-06 | 4.15E-05 | 3.06E-05 | 3.06E-05 | 1.71E-05 | 4.35E-07 | 6.32E-06 | 4.78E-06 | 4.79E-06 | 2.63E-06 | 2.36E-07 | 3.42E-06 | 2.12E-06 | 2.12E-06 | 1.05E-06 |
| 553 | 259532.99 | 4085955.94 | 2.83E-06 | 4.09E-05 | 3.02E-05 | 3.02E-05 | 1.68E-06 | 4.29E-07 | 6.24E-06 | 4.71E-06 | 4.71E-06 | 2.56E-06 | 2.33E-07 | 3.37E-06 | 2.10E-06 | 2.10E-06 | 1.04E-06 |
| 554 | 259524.29 | 4085979.09 | 2.79E-06 | 4.04E-05 | 2.98E-05 | 2.98E-05 | 1.66E-05 | 4.24E-07 | 6.15E-06 | 4.65E-06 | 4.65E-06 | 2.55E-06 | 2.30E-07 | 3.33E-06 | 2.07E-06 | 2.07E-06 | 1.02E-06 |
| 555 | 259515.58 | 4086002.24 | 2.75E-06 | 3.98E-05 | 2.94E-05 | 2.94E-05 | 1.64E-06 | 4.18E-07 | 6.07E-06 | 4.58E-06 | 4.58E-06 | 2.52E-06 | 2.27E-07 | 3.28E-06 | 2.04E-06 | 2.04E-06 | 1.01E-06 |
| 556 | 259506.87 | 4086025.38 | 2.72E-06 | 3.93E-05 | 2.90E-06 | 2.90E-05 | 1.62E-06 | 4.13E-07 | 5.99E-06 | 4.53E-06 | 4.53E-06 | 2.49E-06 | 2.24E-07 | 3.24E-06 | 2.01E-06 | 2.01E-06 | 9.97E-07 |
| 557 | 259498.17 | 4086048.53 | 2.69E-06 | 3.89E-06 | 2.86E-06 | 2.86E-05 | 1.60E-05 | 4.08E-07 | 5.92E-06 | 4.47E-06 | 4.47E-06 | 2.46E-06 | 2.21E-07 | 3.20E-06 | 1.99E-06 | 1.99E-06 | 9.85E-07 |
| 558 | 259489.46 | 4086071.68 | 2.66E-06 | 3.85E-06 | 2.84E-05 | 2.84E-05 | 1.58E-05 | 4.04E-07 | 5.86E-06 | 4.43E-06 | 4.43E-06 | 2.43E-06 | 2.19E-07 | 3.17E-06 | 1.97E-06 | 1.97E-06 | 9.75E-07 |
| 559 | 259480.75 | 4086094.82 | 2.64E-06 | 3.81E-05 | 2.81E-06 | 2.81E-06 | 1.57E-05 | 4.00E-07 | 5.81E-06 | 4.39E-06 | 4.39E-06 | 2.41E-06 | 2.17E-07 | 3.14E-06 | 1.95E-06 | 1.95E-06 | 9.66E-07 |
| 560 | 259472.05 | 4086117.97 | 2.61E-06 | 3.78E-05 | 2.79E-06 | 2.79E-05 | 1.55E-05 | 3.97E-07 | 5.76E-06 | 4.35E-06 | 4.35E-06 | 2.39E-06 | 2.15E-07 | 3.11E-06 | 1.93E-06 | 1.93E-06 | 9.58E-07 |
| 561 | 259440.9 | 4086151.5 | 2.61E-06 | 3.78E-05 | 2.79E-05 | 2.79E-05 | 1.55E-05 | 3.97E-07 | 5.76E-06 | 4.35E-06 | 4.35E-06 | 2.36E-06 | 2.16E-07 | 3.12E-06 | 1.94E-06 | 1.94E-06 | 6.58E-07 |
| 562 | 259418.45 | 4086161.88 | 2.64E-06 | 3.82E-05 | 2.61E-05 | 2.81E-06 | 1.57E-05 | 4.01E-07 | 5.82E-06 | 4.36E-06 | 4.39E-06 | 2.42E-06 | 2.18E-07 | 3.15E-06 | 1.95E-06 | 1.65E-06 | 6.67E-07 |
| 563 | 259396.01 | 4086172.26 | 2.67E-06 | 3.86E-06 | 2.84E-06 | 2.84E-05 | 1.58E-06 | 4.05E-07 | 5.87E-06 | 4.44E-06 | 4.44E-06 | 2.44E-06 | 2.22E-07 | 3.18E-06 | 1.97E-06 | 1.97E-06 | 9.77E-07 |
| 564 | 259373.56 | 4086182.64 | 2.69E-06 | 3.89E-06 | 2.87E-05 | 2.67E-06 | 1.60E-05 | 4.09E-07 | 5.93E-06 | 4.48E-06 | 4.48E-06 | 2.46E-06 | 2.22E-07 | 3.21E-06 | 1.99E-06 | 1.99E-06 | 9.87E-07 |
| 565 | 259151.11 | 4086193.02 | 2.72E-06 | 3.94E-06 | 2.90E-06 | 2.90E-06 | 1.62E-05 | 4.13E-07 | 6.00E-06 | 4.53E-06 | 4.53E-06 | 2.49E-06 | 2.24E-07 | 3.24E-06 | 2.02E-06 | 2.02E-06 | 9.98E-07 |
| 566 | 259328.67 | 4086203.4 | 2.75E-06 | 3.97E-05 | 2.93E-06 | 2.91E-06 | 1.63E-06 | 4.17E-07 | 6.05E-06 | 4.57E-06 | 4.57E-06 | 2.51E-06 | 2.26E-07 | 3.28E-06 | 2.03

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 348 | 259261.91 | 4085019.59 | 8.09E-05 | 1.29E-04 | 9.47E-05 | 9.47E-05 | 5.26E-05 | 1.35E-05 | 1.96E-05 | 1.48E-05 | 1.48E-05 | 8.13E-05 | 7.33E-07 | 1.06E-05 | 6.58E-05 | 6.58E-06 | 3.26E-05 |
| 349 | 259261.19 | 4084994.83 | 9.20E-05 | 1.33E-04 | 9.81E-05 | 9.81E-05 | 5.47E-05 | 1.40E-06 | 2.03E-05 | 1.53E-05 | 1.53E-05 | 6.42E-06 | 7.59E-07 | 1.10E-05 | 6.82E-05 | 6.82E-05 | 3.37E-06 |
| 350 | 259260.46 | 4084970.07 | 9.56E-06 | 1.38E-04 | 1.02E-04 | 1.02E-04 | 5.68E-05 | 1.45E-06 | 2.11E-05 | 1.59E-05 | 1.59E-05 | 8.75E-06 | 7.88E-07 | 1.14E-05 | 7.08E-05 | 7.08E-05 | 3.50E-06 |
| 351 | 259259.74 | 4084945.32 | 9.94E-06 | 1.44E-04 | 1.06E-04 | 1.06E-04 | 5.91E-05 | 1.51E-06 | 2.19E-05 | 1.65E-05 | 1.65E-05 | 9.09E-06 | 8.19E-07 | 1.18E-05 | 7.36E-06 | 7.36E-06 | 3.64E-06 |
| 352 | 259259.02 | 4084920.56 | 1.03E-05 | 1.49E-04 | 1.10E-04 | 1.10E-04 | 6.14E-05 | 1.57E-06 | 2.28E-06 | 1.73E-05 | 1.73E-06 | 9.46E-06 | 6.52E-07 | 1.23E-05 | 7.65E-06 | 7.65E-06 | 3.79E-06 |
| 353 | 259258.3 | 4084895.81 | 1.07E-05 | 1.65E-04 | 1.14E-04 | 1.14E-04 | 6.38E-05 | 1.63E-06 | 2.37E-05 | 1.79E-05 | 1.79E-05 | 9.83E-06 | 8.85E-07 | 1.28E-05 | 7.95E-06 | 7.95E-06 | 3.94E-06 |
| 354 | 259455.35 | 4085110.99 | 6.21E-06 | 8.98E-05 | 6.62E-05 | 6.62E-05 | 3.69E-05 | 9.42E-07 | 1.37E-05 | 1.03E-06 | 1.03E-05 | 5.68E-06 | 5.12E-07 | 7.40E-06 | 4.60E-06 | 4.60E-06 | 2.28E-06 |
| 355 | 259446.77 | 4085133.95 | 6.18E-06 | 8.94E-05 | 6.59E-05 | 6.59E-05 | 3.67E-05 | 9.36E-07 | 1.36E-05 | 1.03E-05 | 1.03E-05 | 5.65E-05 | 5.09E-07 | 7.37E-06 | 4.58E-06 | 4.58E-06 | 2.26E-06 |
| 356 | 259438.08 | 4085156.92 | 8.14E-06 | 8.88E-05 | 6.54E-05 | 6.54E-05 | 3.65E-05 | 9.32E-07 | 1.35E-05 | 1.02E-06 | 1.02E-05 | 5.62E-06 | 5.06E-07 | 7.32E-06 | 4.55E-06 | 4.55E-05 | 2.25E-06 |
| 357 | 259429.44 | 4085179.88 | 6.09E-06 | 8.61E-05 | 6.49E-05 | 6.49E-05 | 3.62E-05 | 9.24E-07 | 1.34E-05 | 1.01E-05 | 1.01E-05 | 5.57E-06 | 5.02E-07 | 7.26E-06 | 4.51E-06 | 4.51E-06 | 2.23E-06 |
| 358 | 259420.8 | 4085202.85 | 6.02E-06 | 6.70E-05 | 6.42E-05 | 6.42E-05 | 3.58E-05 | 9.13E-07 | 1.33E-05 | 1.00E-05 | 1.00E-05 | 5.51E-06 | 4.96E-07 | 7.16E-06 | 4.46E-06 | 4.46E-06 | 2.21E-05 |
| 359 | 259412.17 | 4085225.81 | 5.93E-06 | 8.58E-05 | 6.32E-05 | 6.32E-05 | 3.52E-05 | 9.00E-07 | 1.31E-05 | 9.87E-05 | 9.87E-05 | 5.43E-06 | 4.89E-07 | 7.07E-06 | 4.39E-06 | 4.39E-06 | 2.17E-06 |
| 360 | 259403.53 | 4085248.78 | 5.83E-06 | 8.43E-05 | 6.21E-05 | 6.21E-05 | 3.46E-05 | 8.84E-07 | 1.28E-05 | 9.70E-05 | 9.70E-06 | 5.33E-05 | 4.80E-07 | 6.95E-06 | 4.32E-06 | 4.32E-05 | 2.14E-06 |
| 361 | 259394.89 | 4085271.74 | 5.71E-06 | 8.26E-05 | 8.09E-05 | 6.09E-05 | 3.40E-05 | 8.67E-07 | 1.26E-05 | 9.51E-06 | 9.51E-06 | 5.23E-05 | 4.71E-07 | 6.81E-05 | 4.23E-05 | 4.23E-06 | 2.09E-06 |
| 362 | 259386.25 | 4085294.71 | 5.59E-06 | 8.09E-05 | 5.96E-05 | 5.96E-05 | 3.32E-05 | 8.49E-07 | 1.23E-05 | 9.31E-06 | 9.31E-06 | 5.12E-06 | 4.61E-07 | 6.67E-06 | 4.14E-05 | 4.14E-06 | 2.05E-05 |
| 363 | 259377.61 | 4085317.68 | 5.47E-06 | 7.91E-05 | 5.83E-05 | 5.83E-05 | 3.25E-05 | 8.30E-07 | 1.20E-05 | 9.10E-05 | 9.10E-06 | 5.00E-06 | 4.51E-07 | 6.52E-05 | 4.05E-06 | 4.05E-06 | 2.00E-06 |
| 364 | 259368.98 | 4085340.64 | 5.34E-06 | 7.72E-05 | 5.69E-05 | 5.69E-05 | 3.17E-05 | 8.10E-07 | 1.18E-05 | 8.88E-06 | 6.88E-06 | 4.88E-06 | 4.40E-07 | 6.36E-06 | 3.95E-06 | 3.95E-06 | 1.96E-06 |
| 365 | 259360.34 | 4085363.61 | 5.23E-06 | 7.56E-06 | 5.57E-05 | 5.57E-06 | 3.11E-05 | 7.93E-07 | 1.15E-05 | 8.70E-06 | 8.70E-06 | 4.78E-06 | 4.31E-07 | 6.23E-06 | 3.87E-06 | 3.87E-06 | 1.92E-06 |
| 366 | 259251.7 | 4085386.57 | 5.12E-06 | 7.41E-05 | 5.45E-06 | 5.46E-05 | 3.05E-05 | 7.78E-07 | 1.13E-06 | 8.53E-06 | 8.53E-06 | 4.69E-05 | 4.22E-07 | 6.11E-06 | 3.80E-06 | 3.80E-06 | 1.88E-06 |
| 367 | 259343.06 | 4085409.54 | 5.03E-06 | 7.28E-05 | 5.36E-06 | 5.36E-05 | 2.99E-05 | 7.64E-07 | 1.11E-05 | 8.38E-06 | 8.36E-06 | 4.61E-05 | 4.25E-07 | 6.00E-06 | 3.73E-06 | 3.73E-06 | 1.84E-06 |
| 368 | 259334.43 | 4085432.5 | 4.95E-06 | 7.16E-05 | 5.28E-05 | 5.26E-05 | 2.94E-05 | 7.51E-07 | 1.09E-05 | 8.24E-06 | 8.24E-06 | 4.53E-06 | 4.08E-07 | 5.90E-06 | 3.67E-06 | 3.67E-06 | 1.81E-06 |
| 369 | 259325.79 | 4085455.47 | 4.88E-06 | 7.06E-05 | 5.20E-05 | 5.20E-05 | 2.90E-05 | 7.40E-07 | 1.08E-05 | 8.12E-06 | 8.12E-06 | 4.46E-05 | 4.02E-07 | 5.82E-06 | 3.61E-06 | 3.61E-06 | 1.79E-06 |
| 370 | 259317.15 | 4085476.43 | 4.81E-06 | 6.96E-06 | 5.13E-05 | 5.13E-05 | 2.66E-05 | 7.30E-07 | 1.06E-05 | 8.01E-06 | 8.01E-05 | 4.40E-05 | 3.97E-07 | 5.74E-05 | 3.56E-06 | 3.56E-05 | 1.76E-05 |
| 371 | 259308.51 | 4085501.4 | 4.75E-06 | 6.87E-05 | 5.06E-05 | 5.06E-05 | 2.82E-05 | 7.21E-07 | 1.05E-05 | 7.91E-06 | 7.91E-05 | 4.35E-05 | 3.92E-07 | 5.66E-06 | 3.52E-06 | 3.52E-06 | 1.74E-05 |
| 373 | 259299.87 | 4085524.37 | 4.69E-06 | 8.78E-05 | 5.00E-05 | 5.00E-05 | 2.79E-05 | 7.12E-07 | 1.03E-05 | 7.81E-06 | 7.81E-06 | 4.29E-06 | 3.87E-07 | 5.59E-06 | 3.47E-06 | 3.47E-06 | 1.77E-06 |
| 373 | 259291.24 | 4085547.33 | 4.63E-06 | 6.20E-05 | 4.94E-05 | 4.94E-05 | 2.75E-05 | 7.03E-07 | 1.02E-05 | 7.71E-05 | 7.71E-06 | 4.24E-05 | 3.82E-07 | 5.52E-05 | 3.43E-06 | 3.43E-06 | 1.70E-06 |
| 374 | 259282.6 | 4085570.3 | 4.58E-06 | 6.62E-05 | 4.88E-05 | 4.88E-05 | 2.72E-06 | 6.95E-07 | 1.01E-05 | 7.62E-06 | 7.62E-05 | 4.19E-05 | 3.77E-07 | 5.46E-05 | 3.39E-06 | 3.39E-05 | 1.68E-06 |
| 375 | 259273.96 | 4085593.26 | 4.52E-06 | 8.54E-05 | 4.82E-05 | 4.82E-05 | 2.69E-05 | 6.85E-07 | 9.96E-06 | 7.52E-06 | 7.52E-06 | 4.14E-05 | 3.75E-07 | 5.39E-06 | 3.36E-05 | 3.35E-05 | 1.66E-05 |
| 376 | 259265.32 | 4085616.23 | 4.46E-06 | 6.45E-06 | 4.76E-05 | 4.76E-05 | 2.65E-05 | 6.77E-07 | 9.83E-06 | 7.43E-06 | 7.43E-05 | 4.08E-06 | 3.68E-07 | 5.32E-05 | 3.31E-06 | 3.31E-06 | 1.64E-06 |
| 377 | 259256.69 | 4085639.19 | 4.40E-06 | 6.37E-05 | 4.69E-05 | 4.69E-05 | 2.62E-05 | 6.68E-07 | 9.70E-06 | 7.33E-05 | 7.31E-05 | 4.03E-05 | 3.63E-07 | 5.25E-06 | 3.26E-05 | 3.26E-05 | 1.61E-06 |
| 378 | 259248.05 | 4085662.16 | 4.34E-06 | 8.28E-05 | 4.63E-05 | 4.63E-05 | 2.58E-05 | 8.59E-07 | 9.56E-05 | 7.22E-05 | 7.22E-05 | 3.97E-05 | 3.58E-07 | 5.17E-06 | 3.21E-06 | 3.21E-06 | 1.59E-05 |
| 379 | 259239.41 | 4085685.12 | 4.27E-05 | 8.16E-05 | 4.56E-05 | 4.56E-05 | 2.54E-05 | 6.49E-07 | 9.42E-06 | 7.11E-06 | 7.11E-06 | 3.91E-06 | 3.52E-07 | 5.10E-06 | 3.17E-06 | 3.17E-06 | 1.57E-06 |
| 380 | 259230.77 | 4085708.09 | 4.20E-06 | 6.08E-05 | 4.48E-05 | 4.48E-05 | 2.50E-05 | 6.38E-07 | 9.26E-06 | 7.00E-06 | 7.00E-06 | 3.85E-06 | 3.47E-07 | 5.01E-06 | 3.11E-06 | 3.11E-06 | 1.54E-06 |
| 381 | 259222.13 | 4085731.06 | 4.14E-06 | 5.98E-06 | 4.41E-05 | 4.41E-05 | 2.46E-05 | 6.28E-07 | 9.11E-06 | 6.88E-06 | 6.88E-06 | 3.78E-06 | 3.41E-07 | 4.93E-06 | 3.05E-06 | 3.06E-06 | 1.52E-06 |
| 382 | 259213.5 | 4085754.02 | 4.07E-06 | 5.88E-05 | 4.34E-05 | 4.34E-05 | 2.42E-05 | 6.17E-07 | 8.96E-06 | 6.77E-06 | 6.77E-06 | 3.72E-06 | 3.35E-07 | 4.85E-06 | 3.01E-06 | 3.01E-06 | 1.49E-06 |
| 383 | 259204.86 | 4085776.99 | 4.00E-06 | 5.79E-05 | 4.26E-05 | 4.26E-05 | 2.36E-06 | 8.07E-07 | 8.81E-06 | 6.66E-06 | 6.66E-06 | 3.66E-06 | 3.30E-07 | 4.77E-06 | 2.96E-06 | 2.96E-06 | 1.47E-05 |
| 384 | 259196.22 | 4085799.95 | 3.94E-06 | 5.70E-06 | 4.20E-05 | 4.20E-06 | 2.34E-05 | 5.98E-07 | 6.68E-06 | 6.56E-06 | 6.56E-06 | 3.60E-06 | 3.25E-07 | 4.70E-06 | 2.92E-06 | 2.92E-06 | 1.44E-06 |
| 385 | 259187.58 | 4085822.92 | 3.88E-06 | 5.61E-05 | 4.14E-05 | 4.14E-06 | 2.31E-05 | 5.89E-07 | 8.55E-06 | 6.46E-06 | 6.46E-06 | 3.55E-06 | 3.20E-07 | 4.63E-06 | 2.87E-06 | 2.87E-06 | 1.42E-06 |
| 386 | 259176.95 | 4085845.88 | 3.83E-06 | 5.54E-05 | 4.08E-06 | 4.08E-05 | 2.28E-05 | 5.81E-07 | 6.44E-06 | 6.37E-06 | 6.37E-06 | 3.50E-06 | 3.16E-07 | 4.57E-06 | 2.84E-06 | 2.84E-05 | 1.40E-06 |
| 387 | 259148.04 | 4085879.15 | 3.83E-06 | 5.53E-05 | 4.08E-05 | 4.08E-05 | 2.27E-05 | 5.81E-07 | 8.43E-06 | 8.37E-06 | 6.37E-06 | 3.50E-06 | 3.25E-07 | 4.56E-05 | 2.83E-06 | 2.83E-06 | 1.40E-05 |
| 388 | 259125.77 | 4085889.45 | 3.87E-06 | 5.60E-05 | 4.13E-05 | 4.13E-05 | 2.30E-05 | 5.67E-07 | 8.53E-06 | 8.44E-06 | 6.44E-06 | 3.54E-06 | 3.19E-07 | 4.61E-06 | 2.87E-06 | 2.87E-06 | 1.42E-06 |
| 389 | 259103.5 | 4085899.75 | 3.92E-06 | 5.66E-05 | 4.17E-05 | 4.17E-05 | 2.33E-05 | 5.94E-07 | 8.63E-06 | 6.52E-06 | 6.52E-06 | 3.58E-06 | 3.23E-07 | 4.67E-06 | 2.90E-06 | 2.90E-06 | 1.44E-06 |
| 390 | 259081.25 | 4085910.05 | 3.96E-06 | 5.73E-05 | 4.22E-05 | 4.22E-05 | 2.36E-05 | 6.01E-07 | 8.73E-06 | 6.60E-06 | 6.60E-06 | 3.63E-06 | 3.27E-07 | 4.77E-06 | 2.93E-06 | 2.93E-06 | 1.45E-06 |
| 391 | 259058.96 | 4085920.35 | 4.01E-06 | 5.80E-05 | 4.28E-05 | 4.28E-05 | 2.38E-06 | 6.09E-07 | 8.84E-06 | 6.68E-06 | 6.68E-06 | 3.67E-06 | 3.31E-07 | 4.78E-06 | 2.97E-06 | 2.97E-06 | 1.47E-06 |
| 392 | 259036.69 | 4085930.65 | 4.05E-06 | 5.88E-06 | 4.33E-06 | 4.33E-06 | 2.42E-05 | 6.17E-07 | 8.95E-06 | 6.76E-06 | 8.76E-06 | 3.72E-06 | 3.35E-07 | 4.84E-06 | 3.01E-06 | 3.01E-06 | 1.49E-06 |
| 393 | 259014.42 | 4085940.95 | 4.12E-06 | 5.95E-05 | 4.39E-05 | 4.39E-05 | 2.45E-05 | 6.25E-07 | 9.07E-06 | 6.85E-06 | 6.85E-06 | 3.77E-06 | 3.39E-07 | 4.91E-06 | 3.05E-06 | 3.05E-06 | 1.51E-06 |
| 394 | 258992.15 | 4085951.25 | 4.17E-06 | 8.04E-05 | 4.45E-05 | 4.45E-06 | 2.48E-05 | 6.33E-07 | 9.20E-06 | 6.95E-06 | 6.95E-06 | 3.82E-06 | 3.44E-07 | 4.98E-06 | 3.09E-06 | 3.09E-06 | 1.53E-06 |
| 395 | 258969.88 | 4085961.54 | 4.23E-06 | 8.12E-05 | 4.51E-05 | 4.51E-05 | 2.52E-05 | 8.42E-07 | 9.33E-06 | 7.05E-06 | 7.05E-06 | 3.87E-06 | 3.49E-07 | 5.05E-05 | 3.14E-06 | 3.14E-06 | 1.55E-06 |
| 396 | 258947.61 | 4085971.64 | 4.29E-06 | 8.21E-05 | 4.57E-05 | 4.57E-06 | 2.55E-05 | 6.51E-07 | 9.45E-06 | 7.14E-06 | 7.14E-06 | 3.93E-06 | 3.54E-07 | 5.12E-06 | 3.18E-06 | 3.18E-06 | 1.57E-06 |
| 397 | 258925.34 | 4085982.14 | 4.36E-06 | 8.31E-05 | 4.65E-05 | 4.65E-05 | 2.59E-05 | 6.62E-07 | 9.62E-06 | 7.26E-06 | 7.26E-06 | 3.99E-06 | 3.60E-07 | 5.20E-06 | 3.25E-06 | 3.23E-06 | 1.60E-06 |
| 398 | 258903.07 | 4085992.44 | 4.45E-06 | 6.44E-05 | 4.75E-05 | 4.75E-05 | 2.65E-05 | 8.76E-07 | 9.81E-06 | 7.41E-06 | 7.41E-06 | 4.07E-06 | 3.67E-07 | 5.31E-06 | 3.30E-06 | 3.30E-06 | 1.63E-06 |
| 399 | 258880.8 | 4086002.74 | 4.55E-06 | 6.58E-06 | 4.85E-05 | 4.85E-05 | 2.70E-05 | 6.90E-07 | 1.00E-05 | 7.57E-06 | 7.57E-06 | 4.16E-06 | 3.75E-07 | 5.42E-06 | 3.37E-06 | 3.37E-06 | 1.67E-06 |
| 400 | 258858.53 | 4086013.04 | 4.66E-06 | 6.73E-06 | 4.96E-05 | 4.96E-05 | 2.77E-05 | 7.07E-07 | 1.03E-05 | 7.75E-06 | 7.75E-06 | 4.26E-06 | 3.84E-07 | 5.55E-06 | 3.45E-06 | 3.45E-06 | 1.71E-06 |
| 401 | 258836.26 | 4086023.34 | 4.77E-06 | 6.89E-05 | 5.08E-05 | 5.08E-05 | 2.83E-05 | 7.25E-07 | 1.05E-05 | 7.93E-06 | 7.93E-06 | 4.36E-06 | 3.93E-07 | 5.68E-06 | 3.53E-06 | 3.53E-06 | 1.75E-06 |
| 402 | 258813.99 | 4086033.64 | 4.88E-06 | 7.05E-05 | 5.20E-05 | 5.20E-05 | 2.90E-05 | 7.40E-07 | 1.07E-05 | 8.12E-06 | 8.12E-06 | 4.46E-06 | 4.02E-07 | 5.81E-06 | 3.61E-06 | 3.61E-06 | 1.79E-06 |
| 403 | 258791.72 | 4086043.94 | 4.98E-06 | 7.20E-05 | 5.31E-05 | 5.31E-05 | 2.96E-06 | 7.56E-07 | 1.10E-05 | 8.29E-06 | 8.29E-06 | 4.56E-06 | 4.11E-07 | 5.94E-06 | 3.69E-06 | 3.69E-06 | 1.83E-06 |
| 404 | 258769.45 | 4086054.24 | 5.08E-06 | 7.34E-06 | 5.41E-06 | 5.41E-05 | 3.02E-06 | 7.71E-07 | 1.12E-05 | 8.45E-06 | 8.45E-06 | 4.65E-06 | 4.19E-07 | 6.05E-06 | 3.76E-06 | 3.76E-06 | 1.66E-06 |
| 405 | 258747.18 | 4086064.54 | 5.16E-06 | 7.47E-05 | 5.50E-05 | 5.50E-05 | 3.07E-05 | 7.84E-07 | 1.14E-05 | 8.60E-06 | 8.60E-06 | 4.73E-06 | 4.26E-07 | 6.16E-06 | 3.82E-06 | 3.82E-06 | 1.89E-06 |
| 406 | 258724.91 | 4086074.84 | 5.24E-06 | 7.57E-05 | 5.58E-06 | 5.56E-05 | 3.11E-05 | 7.95E-07 | 1.15E-05 | 8.71E-06 | 8.71E-06 | 4.79E-06 | 4.32E-07 | 6.24E-06 | 3.88E-06 | 3.88E-06 | 1.92E-06 |
| 407 | 258702.64 | 4086085.14 | 5.30E-06 | 7.66E-05 | 5.65E-06 | 5.65E-05 | 3.15E-05 | 8.04E-07 | 1.17E-05 | 8.82E-06 | 8.82E-06 | 4.85E-06 | 4.37E-07 | 6.32E-06 | 3.92E-06 | 3.92E-06 | 1.94E-06 |
| 408 | 258680.37 | 4086095.44 | 5.36E-06 | 7.75E-05 | 5.71E-05 | 5.71E-05 | 3.18E-05 | 8.13E-07 | 1.18E-05 | 8.92E-06 | 8.92E-06 | 4.90E-06 | 4.42E-07 | 6.39E-06 | 3.97E-06 | 3.97E-06 | 1.96E-06 |
| 409 | 258658.1 | 4086105.74 | 5.41E-06 | 7.82E-05 | 5.76E-05 | 5.76E-05 | 3.21E-05 | 8.21E-07 | 1.19E-05 | 9.00E-05 | 9.00E-06 | 4.95E-06 | 4.46E-07 | 8.45E-06 | 4.00E-06 | 4.00E-05 | 1.38E-05 |
| 410 | 258635.83 | 4086116.04 | 5.46E-06 | 7.90E-05 | 5.82E-05 | 5.82E-05 | 3.24E-05 | 8.28E-07 | 1.20E-05 | 9.09E-05 | 9.09E-05 | 5.00E-06 | 4.50E-07 | 6.51E-06 | 4.04E-06 | 4.04E-06 | 2.00E-06 |
| 411 | 258613.56 | 4086126.34 | 5.51E-06 | 7.97E-05 | 5.88E-05 | 5.88E-05 | 3.28E-05 | 8.37E-07 | 1.21E-05 | 9.17E-06 | 9.17E-05 | 5.04E-06 | 4.54E-07 | 6.57E-06 | 4.08E-05 | 4.08E-06 | 2.02E-05 |
| 412 | 258591.29 | 4086138.64 | 5.57E-06 | 8.05E-05 | 5.94E-05 | 5.94E-05 | 3.31E-06 | 8.45E-07 | 1.23E-05 | 9.27E-06 | 9.27E-06 | 5.09E-06 | 4.59E-07 | 6.64E-05 | 4.12E-05 | 4.12E-06 | 2.04E-06 |
| 413 | 258569.02 | 4086146.94 | 5.63E-06 | 8.14E-05 | 8.00E-05 | 6.00E-05 | 3.35E-05 | 8.54E-07 | 1.24E-05 | 9.37E-06 | 9.37E-06 | 5.15E-06 | 4.64E-07 | 6.71E-05 | 4.17E-05 | 4.17E-06 | 2.06E-06 |
| 414 | 258546.75 | 4086257.24 | 5.69E-06 | 8.24E-05 | 6.07E-05 | 6.07E-05 | 3.36E-05 | 8.64E-07 | 1.25E-05 | 9.48E-06 | 9.48E-06 | 5.21E-06 | 4.69E-07 | 8.79E-05 | 4.22E-05 | 4.22E-06 | 2.09E-05 |
| 425 | 258524.48 | 4086167.54 | 5.77E-06 | 8.34E-05 | 6.15E-05 | 6.15E-06 | 3.43E-05 | 8.75E-07 | 1.27E-05 | 9.60E-06 | 9.60E-06 | 5.28E-06 | 4.75E-07 | 6.87E-06 | 4.27E-06 | 4.27E-06 | 2.11E-06 |
| 416 | 258502.21 | 4086177.83 | 5.84E-06 | 8.46E-05 | 6.23E-05 | 6.23E-05 | 3.47E-05 | 8.87E-07 | 1.29E-05 | 9.72E-06 | 9.77E-06 | 5.35E-06 | 4.82E-07 | 8.96E-05 | 4.33E-06 | 4.33E-06 | 2.14E-06 |
| 417 | 258479.94 | 4086188.13 | 5.93E-06 | 8.57E-05 | 6.32E-05 | 6.32E-05 | 3.52E-05 | 8.99E-07 | 1.31E-05 | 9.86E-05 | 9.86E-06 | 5.42E-06 | 4.88E-07 | 7.07E-06 | 4.39E-05 | 4.39E-06 | 2.17E-06 |
| 418 | 258457.67 | 4086198.43 | 6.01E-05 | 8.69E-05 | 6.40E-05 | 6.40E-05 | 3.57E-05 | 9.12E-07 | 1.32E-05 | 1.00E-05 | 1.00E-05 | 5.50E-06 | 4.95E-07 | 7.16E-06 | 4.45E-06 | 4.45E-06 | 2.20E-05 |
| 419 | 258435.4 | 4086208.73 | 6.10E-05 | 8.83E-05 | 6.51E-05 | 6.51E-05 | 3.63E-05 | 9.26E-07 | 1.35E-05 | 1.02E-05 | 1.02E-05 | 5.59E-06 | 5.03E-07 | 7.28E-05 | 4.52E-06 | 4.52E-06 | 2.24E-06 |
| 420 | 259461.99 | 4085088.02 | 6.24E-06 | 9.02E-05 | 6.65E-06 | 6.65E-05 | 3.71E-05 | 9.47E-07 | 1.37E-05 | 1.04E-05 | 1.04E-05 | 5.71E-06 | 5.14E-07 | 7.44E-06 | 4.62E-06 | 4.62E-06 | 2.29E-06 |
| 421 | 259463.27 | 4085063.26 | 8.36E-06 | 9.19E-05 | 8.76E-05 | 6.78E-05 | 3.78E-05 | 9.65E-07 | 1.40E-05 | 1.06E-05 | 1.06E-05 | 5.82E-06 | 5.24E-07 | 7.58E-06 | 4.71E-05 | 4.73E-06 | 2.33E-05 |
| 422 | 259462.55 | 4085038.51 | 6.51E-06 | 9.41E-05 | 6.94E-05 | 6.94E-05 | 3.87E-05 | 9.88E-07 | 1.43E-05 | 1.08E-05 | 1.08E-05 | 5.96E-06 | 5.36E-07 | 7.76E-06 | 4.82E-06 | 4.82E-06 | 2.39E-05 |
| 423 | 259461.82 | 4085013.75 | 6.68E-05 | 9.66E-05 | 7.12E-05 | 7.12E-05 | 3.97E-05 | 1.01E-06 | 1.47E-05 | 1.11E-05 | 1.11E-05 | 6.11E-06 | 5.51E-07 | 7.97E-06 | 4.95E-06 | 4.95E-06 | 2.45E-05 |
| 424 | 259461.1 | 4084989 | 6.89E-05 | 9.96E-06 | 7.34E-05 | 7.34E-05 | 4.09E-05 | 1.05E-06 | 1.52E-05 | 1.15E-05 | 1.15E-06 | 6.30E-05 | 5.68E-07 | 8.21E-05 | 5.10E-05 | 5.10E-06 | 2.52E-06 |
| 425 | 259460.38 | 4084964.24 | 7.12E-05 | 1.03E-04 | 7.59E-05 | 7.59E-05 | 4.23E-05 | 1.08E-06 | 1.57E-06 | 1.18E-05 | 1.18E-05 | 6.51E-06 | 5.87E-07 | 8.48E-06 | 5.27E-05 | 5.27E-06 | 2.61E-06 |
| 426 | 259459.66 | 4084939.48 | 7.37E-06 | 1.07E-04 | 7.85E-06 | 7.85E-05 | 4.38E-05 | 1.12E-06 | 1.62E-05 | 1.23E-05 | 1.23E-06 | 8.74E-06 | 8.07E-07 | 8.78E-06 | 5.46E-05 | 5.46E-06 | 2.70E-05 |
| 427 | 259458.93 | 4084914.73 | 7.62E-05 | 1.10E-04 | 8.13E-05 | 8.13E-05 | 4.53E-05 | 1.16E-06 | 1.68E-05 | 1.27E-05 | 1.27E-05 | 6.98E-05 | 8.28E-07 | 9.09E-06 | 5.66E-05 | 5.65E-06 | 2.79E-05 |
| 428 | 259458.21 | 4084889.97 | 7.88E-05 | 1.14E-04 | 8.40E-05 | 8.40E-05 | 4.69E-05 | 1.20E-06 | 1.74E-05 | 1.31E-05 | 1.31E-05 | 7.21E-06 | 6.50E-07 | 9.40E-06 | 5.84E-06 | 5.84E-06 | 2.89E-05 |
| 429 | 259655.25 | 4085105.26 | 5.01E-05 | 7.25E-05 | 5.34E-05 | 5.34E-05 | 2.98E-05 | 7.61E-07 | 1.10E-05 | 8.34E-06 | 8.34E-05 | 4.59E-06 | 4.13E-07 | 5.98E-06 | 3.71E-06 | 3.71E-06 | 1.64E-05 |
| 430 | 259646.55 | 4085128.33 | 5.00E-05 | 7.24E-05 | 5.33E-05 | 5.33E-05 | 2.97E-05 | 7.59E-07 | 1.10E-05 | 8.33E-06 | 8.33E-05 | 4.58E-06 | 4.12E-07 | 5.97E-06 | 3.71E-05 | 3.71E-06 | 1.83E-06 |
| 431 | 259637.88 | 4085251.4 | 4.99E-05 | 7.22E-05 | 5.32E-05 | 5.32E-05 | 2.97E-05 | 7.58E-07 | 1.10E-05 | 8.31E-06 | 8.31E-05 | 4.57E-06 | 4.12E-07 | 5.95E-06 | 3.70E-05 | 3.70E-06 | 1.83E-05 |
| 432 | 259629.2 | 4085174.47 | 4.97E-06 | 7.18E-05 | 5.30E-05 | 5.30E-05 | 2.95E-05 | 7.54E-07 | 1.09E-05 | 8.27E-06 | 8.27E-06 | 4.55E-06 | 4.09E-07 | 5.92E-06 | 3.68E-05 | 3.88E-05 | 1.82E-06 |
| 433 | 259620.52 | 4085197.54 | 4.93E-05 | 7.14E-06 | 5.26E-05 | 5.26E-05 | 2.93E-05 | 7.49E-07 | 1.09E-06 | 8.21E-06 | 8.21E-06 | 4.52E-06 | 4.07E-07 | 5.88E-06 | 3.65E-05 | 3.65E-05 | 1.81E-05 |
| 434 | 259611.84 | 4085220.61 | 4.89E-06 | 7.07E-05 | 5.21E-05 | 5.21E-06 | 2.91E-05 | 7.42E-07 | 1.08E-05 | 8.14E-06 | 8.14E-06 | 4.47E-06 | 4.03E-07 | 5.83E-06 | 3.62E-06 | 3.62E-05 | 1.79E-05 |
| 435 | 259603.17 | 4085243.68 | 4.83E-05 | 6.99E-05 | 5.25E-05 | 5.15E-05 | 2.87E-05 | 7.33E-07 | 1.05E-05 | 8.04E-06 | 8.04E-06 | 4.42E-06 | 3.98E-07 | 5.76E-06 | 3.56E-06 | 3.58E-06 | 1.77E-05 |
| 436 | 259594.49 | 4085266.75 | 4.76E-05 | 6.88E-05 | 5.07E-05 | 5.07E-05 | 2.83E-05 | 7.22E-07 | 1.05E-05 | 7.92E-05 | 7.92E-05 | 4.35E-05 | 3.92E-07 | 5.67E-06 | 3.52E-06 | 3.52E-06 | 1.74E-05 |
| 437 | 259585.81 | 4085289.62 | 4.67E-05 | 6.76E-05 | 4.98E-05 | 4.98E-05 | 2.78E-05 | 7.09E-07 | 1.03E-05 | 7.78E-05 | 7.78E-05 | 4.28E-05 | 3.85E-07 | 5.57E-05 | 3.46E-06 | 3.46E-06 | 1.71E-06 |
| 438 | 259577.14 | 4085312.89 | 4.59E-05 | 8.63E-05 | 4.89E-05 | 4.89E-05 | 2.73E-06 | 6.96E-07 | 1.01E-05 | 7.63E-06 | 7.63E-06 | 4.20E-06 | 3.78E-07 | 5.47E-05 | 3.40E-06 | 3.40E-06 | 1.66E-06 |
| 439 | 259568.46 | 4085335.96 | 4.49E-06 | 6.50E-06 | 4.79E-06 | 4.79E-06 | 2.67E-05 | 8.82E-07 | 9.90E-06 | 7.48E-06 | 7.48E-06 | 4.11E-06 | 3.70E-07 | 5.36E-05 | 3.33E-06 | 3.33E-06 | 1.65E-06 |
| 440 | 259559.78 | 4085359.03 | 4.40E-06 | 8.37E-05 | 4.69E-05 | 4.69E-05 | 2.62E-05 | 8.68E-07 | 9.70E-06 | 7.32E-06 | 7.33E-06 | 4.03E-06 | 3.63E-07 | 5.25E-06 | 3.26E-06 | 3.26E-06 | 1.61E-06 |
| 441 | 259551.11 | 4085382.1 | 4.12E-06 | 6.24E-06 | 4.60E-05 | 4.60E-05 | 2.56E-05 | 8.55E-07 | 9.51E-06 | 7.18E-06 | 7.18E-06 | 3.95E-06 | 3.56E-07 | 5.14E-06 | 3.20E-06 | 3.20E-06 | 1.58E-06 |
| 442 | 259542.43 | 4085405.17 | 4.23E-06 | 8.12E-05 | 4.51E-06 | 4.51E-05 | 2.51E-05 | 8.42E-07 | 9.12E-06 | 7.04E-06 | 7.04E-06 | 3.87E-06 | 3.49E-07 | 5.04E-06 | 3.13E-06 | 3.13E-06 | 1.55E-06 |
| 443 | 259533.75 | 4085428.24 | 4.25E-06 | 6.01E-05 | 4.43E-05 | 4.43E-05 | 2.47E-05 | 8.30E-07 | 9.15E-06 | 6.91E-05 | 6.91E-06 | 3.80E-06 | 3.42E-07 | 4.95E-06 | 3.08E-06 | 3.08E-06 | 1.52E-06 |
| 444 | 259525.07 | 4085451.31 | 4.08E-06 | 5.90E-05 | 4.35E-06 | 4.25E-05 | 2.43E-05 | 6.19E-07 | 8.99E-06 | 6.79E-06 | 6.79E-06 | 3.74E-06 | 3.36E-07 | 4.87E-06 | 3.02E-06 | 3.02E-06 | 1.50E-06 |
| 445 | 259516.4 | 4085474.37 | 4.02E-06 | 5.81E-05 | 4.28E-05 | 4.28E-05 | 2.39E-06 | 6.10E-07 | 8.85E-05 | 6.68E-06 | 6.68E-06 | 3.68E-06 | 3.31E-07 | 4.79E-06 | 2.97E-06 | 2.97E-06 | 1.47E-06 |
| 446 | 259507.72 | 4085497.44 | 3.96E-06 | 5.73E-06 | 4.22E-05 | 4.22E-05 | 2.35E-05 | 6.01E-07 | 8.73E-06 | 6.59E-06 | 6.59E-06 | 3.62E-06 | 3.26E-07 | 4.73E-06 | 2.93E-06 | 2.93E-06 | 1.45E-06 |
| 447 | 259499.04 | 4085520.51 | 3.91E-06 | 5.66E-05 | 4.17E-05 | 4.17E-06 | 2.32E-06 | 5.94E-07 | 8.62E-06 | 6.51E-06 | 6.51E-06 | 3.58E-06 | 3.22E-07 | 4.66E-06 | 2.90E-06 | 2.90E-06 | 1.43E-06 |
| 448 | 259490.37 | 4085543.58 | 3.87E-06 | 5.60E-05 | 4.12E-05 | 4.12E-06 | 2.30E-05 | 5.87E-07 | 6.52E-06 | 6.44E-06 | 6.44E-06 | 3.54E-06 | 3.19E-07 | 4.61E-06 | 2.87E-06 | 2.87E-06 | 1.42E-06 |
| 449 | 259481.69 | 4085566.65 | 3.83E-06 | 5.54E-05 | 4.08E-05 | 4.08E-05 | 2.28E-05 | 5.81E-07 | 8.44E-06 | 6.37E-06 | 6.37E-06 | 3.50E-06 | 3.16E-07 | 4.57E-06 | 2.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 231 | 258964.2 | 4085102.91 | 1.41E-05 | 2.04E-04 | 1.51E-04 | 1.51E-04 | 8.39E-05 | 2.14E-05 | 3.11E-05 | 2.35E-05 | 2.35E-05 | 1.29E-05 | 1.16E-06 | 1.68E-05 | 1.05E-05 | 1.05E-05 | 5.19E-06 |
| 232 | 258963.48 | 4085077.85 | 1.48E-05 | 2.14E-04 | 1.57E-04 | 1.57E-04 | 8.78E-05 | 2.24E-05 | 3.25E-05 | 2.46E-05 | 2.46E-05 | 1.35E-05 | 1.22E-06 | 1.76E-05 | 1.09E-05 | 1.09E-05 | 5.41E-06 |
| 233 | 258962.76 | 4085053.09 | 1.55E-05 | 2.24E-04 | 1.65E-04 | 1.65E-04 | 9.19E-05 | 2.35E-05 | 2.41E-05 | 2.57E-05 | 2.57E-05 | 1.42E-05 | 1.27E-06 | 1.84E-05 | 1.15E-05 | 1.15E-05 | 5.67E-06 |
| 234 | 258962.04 | 4085028.34 | 1.62E-05 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.65E-05 | 2.46E-05 | 3.58E-05 | 2.70E-05 | 2.70E-05 | 1.49E-05 | 1.34E-06 | 1.94E-06 | 1.20E-05 | 1.20E-05 | 5.95E-06 |
| 235 | 258961.21 | 4085003.58 | 1.71E-05 | 2.47E-04 | 1.82E-04 | 1.82E-04 | 1.01E-04 | 2.59E-05 | 3.76E-05 | 2.84E-05 | 2.84E-05 | 1.56E-05 | 1.41E-06 | 2.03E-05 | 1.26E-05 | 1.26E-05 | 8.26E-06 |
| 236 | 258960.59 | 4084978.83 | 1.80E-05 | 2.60E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.73E-05 | 3.96E-05 | 2.99E-05 | 2.99E-05 | 1.64E-05 | 1.48E-05 | 2.14E-05 | 1.32E-05 | 1.33E-05 | 6.59E-06 |
| 237 | 258959.87 | 4034954.07 | 1.89E-05 | 2.74E-04 | 2.02E-04 | 2.02E-04 | 1.13E-04 | 2.88E-05 | 4.17E-05 | 3.15E-05 | 3.15E-05 | 1.73E-05 | 1.56E-06 | 2.25E-05 | 1.40E-05 | 1.40E-05 | 6.95E-06 |
| 238 | 258959.15 | 4034929.21 | 2.00E-05 | 2.89E-04 | 2.13E-04 | 2.13E-04 | 1.19E-04 | 3.03E-05 | 4.41E-05 | 3.33E-05 | 3.33E-05 | 1.83E-05 | 1.65E-06 | 2.38E-05 | 1.48E-05 | 1.48E-05 | 7.33E-06 |
| 239 | 258958.42 | 4084904.59 | 2.11E-05 | 3.05E-04 | 2.25E-04 | 2.25E-04 | 1.25E-04 | 3.20E-05 | 4.65E-05 | 3.51E-05 | 3.51E-05 | 1.93E-05 | 1.74E-06 | 2.51E-05 | 1.56E-05 | 1.56E-05 | 7.73E-06 |
| 240 | 259055.97 | 4085122.28 | 1.13E-05 | 1.63E-04 | 1.20E-04 | 1.20E-04 | 8.71E-05 | 1.71E-05 | 2.49E-05 | 1.88E-05 | 1.68E-05 | 1.03E-05 | 9.21E-07 | 1.35E-05 | 8.26E-06 | 8.26E-06 | 4.14E-06 |
| 241 | 259047.17 | 4085144.86 | 1.11E-05 | 1.61E-04 | 1.16E-04 | 1.18E-04 | 8.60E-05 | 1.69E-05 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.03E-05 | 9.15E-07 | 1.32E-05 | 6.22E-06 | 8.22E-06 | 4.07E-06 |
| 242 | 259038.66 | 4085167.45 | 1.09E-05 | 1.58E-04 | 1.16E-04 | 1.16E-04 | 6.47E-05 | 1.65E-05 | 2.40E-05 | 1.81E-05 | 1.81E-05 | 9.97E-06 | 8.98E-07 | 1.30E-05 | 8.07E-06 | 8.07E-06 | 3.99E-06 |
| 243 | 259030.18 | 4085190.03 | 1.06E-05 | 1.54E-04 | 1.13E-04 | 1.13E-04 | 6.32E-05 | 1.61E-05 | 2.34E-05 | 1.77E-05 | 1.77E-05 | 9.73E-06 | 8.77E-07 | 1.27E-05 | 7.88E-06 | 7.88E-06 | 3.90E-06 |
| 244 | 259021.69 | 4085212.92 | 1.04E-05 | 1.50E-04 | 1.10E-04 | 1.10E-04 | 6.15E-05 | 1.57E-05 | 2.28E-05 | 1.72E-05 | 1.72E-05 | 9.48E-06 | 8.52E-07 | 1.23E-05 | 7.67E-06 | 7.97E-06 | 3.80E-06 |
| 245 | 259013.19 | 4085235.21 | 1.01E-05 | 1.46E-04 | 1.08E-04 | 1.08E-04 | 5.99E-05 | 1.53E-05 | 2.22E-05 | 1.68E-05 | 1.68E-05 | 9.23E-06 | 8.21E-07 | 1.20E-05 | 7.47E-06 | 7.47E-06 | 2.70E-06 |
| 246 | 259004.7 | 4085257.79 | 9.82E-06 | 1.42E-04 | 1.05E-04 | 1.05E-04 | 5.84E-05 | 1.49E-05 | 2.16E-05 | 1.63E-05 | 1.63E-05 | 8.99E-06 | 8.10E-07 | 1.17E-05 | 7.27E-06 | 7.27E-06 | 3.60E-06 |
| 247 | 258996.2 | 4085280.26 | 9.57E-06 | 1.38E-04 | 1.02E-04 | 1.02E-04 | 5.69E-05 | 1.45E-05 | 2.11E-05 | 1.59E-05 | 1.59E-05 | 8.76E-06 | 7.89E-07 | 1.14E-05 | 7.09E-06 | 7.09E-06 | 3.51E-06 |
| 248 | 258987.71 | 4085302.96 | 9.23E-06 | 1.25E-04 | 9.95E-05 | 9.95E-05 | 5.55E-05 | 1.42E-05 | 2.06E-05 | 1.55E-05 | 1.55E-05 | 8.64E-06 | 7.69E-07 | 1.11E-05 | 6.91E-06 | 6.91E-06 | 3.42E-06 |
| 249 | 258979.21 | 4085325.55 | 9.11E-06 | 1.32E-04 | 9.71E-05 | 9.71E-05 | 5.41E-05 | 1.38E-05 | 2.01E-05 | 1.52E-05 | 1.52E-05 | 8.33E-06 | 7.51E-07 | 1.09E-05 | 6.74E-06 | 6.74E-06 | 3.34E-06 |
| 250 | 258970.72 | 4085348.13 | 8.90E-06 | 1.29E-04 | 9.48E-05 | 9.48E-05 | 5.29E-05 | 1.35E-05 | 1.96E-05 | 1.48E-05 | 1.48E-05 | 8.14E-06 | 7.32E-07 | 1.06E-05 | 8.59E-06 | 8.59E-06 | 2.26E-06 |
| 251 | 258962.22 | 4085370.72 | 8.69E-06 | 1.26E-04 | 9.27E-05 | 9.27E-05 | 5.17E-05 | 1.32E-05 | 1.92E-05 | 1.45E-05 | 1.46E-05 | 7.95E-06 | 7.16E-07 | 1.04E-05 | 6.44E-06 | 6.44E-06 | 3.19E-05 |
| 252 | 258953.73 | 4085393.31 | 8.49E-06 | 1.23E-04 | 9.05E-05 | 9.05E-05 | 5.05E-05 | 1.29E-05 | 1.87E-05 | 1.41E-05 | 1.41E-05 | 7.77E-06 | 7.00E-07 | 1.01E-05 | 6.29E-06 | 8.29E-06 | 3.11E-06 |
| 253 | 258945.22 | 4085415.89 | 8.29E-06 | 1.20E-04 | 8.84E-05 | 8.84E-05 | 4.93E-05 | 1.26E-05 | 1.83E-05 | 1.38E-05 | 1.58E-05 | 7.59E-06 | 9.84E-07 | 9.89E-06 | 6.14E-06 | 6.14E-06 | 3.04E-06 |
| 254 | 258936.74 | 4085438.48 | 8.10E-06 | 1.17E-04 | 8.63E-05 | 8.63E-05 | 4.81E-05 | 1.22E-05 | 1.78E-05 | 1.35E-05 | 1.35E-05 | 7.41E-06 | 6.68E-07 | 9.65E-06 | 6.00E-06 | 6.00E-06 | 2.97E-06 |
| 255 | 258928.24 | 4085461.06 | 7.90E-06 | 1.14E-04 | 8.43E-05 | 8.43E-05 | 4.70E-05 | 1.20E-05 | 1.74E-05 | 1.22E-05 | 1.32E-05 | 7.23E-06 | 6.51E-07 | 9.42E-06 | 5.85E-06 | 5.85E-06 | 2.90E-06 |
| 256 | 258919.75 | 4085483.65 | 7.71E-06 | 1.12E-04 | 8.22E-05 | 8.22E-05 | 4.58E-05 | 1.17E-05 | 1.70E-05 | 1.28E-05 | 1.28E-05 | 7.06E-06 | 6.36E-07 | 9.20E-06 | 5.71E-06 | 5.71E-06 | 2.83E-06 |
| 257 | 258911.25 | 4085506.24 | 7.53E-06 | 1.09E-04 | 8.03E-06 | 8.03E-06 | 4.47E-05 | 1.14E-06 | 1.66E-05 | 1.25E-05 | 1.25E-05 | 6.89E-06 | 8.21E-07 | 8.98E-06 | 5.58E-06 | 5.38E-06 | 2.76E-06 |
| 258 | 258902.76 | 4085528.82 | 7.35E-06 | 1.06E-04 | 7.84E-05 | 7.84E-05 | 4.37E-05 | 1.12E-06 | 1.62E-05 | 1.22E-05 | 1.22E-05 | 6.73E-06 | 6.06E-07 | 8.77E-05 | 5.45E-06 | 5.45E-06 | 2.70E-06 |
| 259 | 258894.26 | 4085551.41 | 7.19E-06 | 1.04E-04 | 7.66E-05 | 7.66E-05 | 4.27E-05 | 1.09E-06 | 1.58E-05 | 1.20E-05 | 1.20E-05 | 8.58E-06 | 5.93E-07 | 6.57E-05 | 5.22E-06 | 5.32E-06 | 2.63E-06 |
| 260 | 258885.77 | 4085573.99 | 7.04E-06 | 1.02E-04 | 7.50E-05 | 7.50E-05 | 4.38E-05 | 1.07E-06 | 1.56E-05 | 1.17E-05 | 1.17E-05 | 6.44E-06 | 5.80E-07 | 8.39E-06 | 5.21E-06 | 5.21E-06 | 2.58E-06 |
| 261 | 258855.27 | 4085606.71 | 7.00E-06 | 1.01E-04 | 7.46E-05 | 7.46E-05 | 4.18E-05 | 1.06E-06 | 1.54E-05 | 1.17E-05 | 1.17E-05 | 6.41E-06 | 5.77E-07 | 8.35E-06 | 5.19E-06 | 5.19E-06 | 2.57E-06 |
| 262 | 258833.47 | 4085616.84 | 7.11E-06 | 1.03E-04 | 7.58E-05 | 7.58E-05 | 4.23E-05 | 1.08E-06 | 1.57E-05 | 1.16E-05 | 1.18E-05 | 6.51E-06 | 5.86E-07 | 8.48E-06 | 5.27E-06 | 5.27E-06 | 2.91E-05 |
| 263 | 258811.57 | 4085829.97 | 7.24E-06 | 1.05E-04 | 7.72E-05 | 7.72E-05 | 4.30E-05 | 1.10E-06 | 1.59E-05 | 1.20E-05 | 1.20E-05 | 6.62E-06 | 5.97E-07 | 8.63E-05 | 5.36E-06 | 5.36E-06 | 2.65E-06 |
| 264 | 258789.66 | 4085637.1 | 7.37E-06 | 1.07E-04 | 7.85E-05 | 7.85E-05 | 4.38E-05 | 1.12E-06 | 1.62E-05 | 1.23E-05 | 1.23E-05 | 6.74E-06 | 8.07E-07 | 8.78E-06 | 5.46E-05 | 5.46E-06 | 2.70E-06 |
| 265 | 258767.79 | 4085647.22 | 7.51E-06 | 1.09E-04 | 8.00E-05 | 8.00E-05 | 4.46E-05 | 1.14E-06 | 1.65E-05 | 1.25E-06 | 1.25E-05 | 6.87E-06 | 8.19E-07 | 8.95E-06 | 5.56E-06 | 5.56E-06 | 2.75E-06 |
| 266 | 258745.86 | 4085657.36 | 7.67E-06 | 1.11E-04 | 8.17E-05 | 8.17E-05 | 4.56E-05 | 1.16E-06 | 1.69E-05 | 1.28E-05 | 1.28E-05 | 7.02E-06 | 9.32E-07 | 9.14E-06 | 5.68E-06 | 5.68E-06 | 2.81E-06 |
| 267 | 258723.96 | 4085667.49 | 7.85E-06 | 1.14E-04 | 8.37E-05 | 8.37E-05 | 4.66E-05 | 1.19E-06 | 1.73E-05 | 1.31E-06 | 1.31E-05 | 7.18E-06 | 6.47E-07 | 9.36E-06 | 5.81E-06 | 5.81E-06 | 2.88E-06 |
| 268 | 258702.06 | 4085677.91 | 8.05E-06 | 1.16E-04 | 6.58E-05 | 8.58E-05 | 4.78E-05 | 1.22E-06 | 1.77E-05 | 1.34E-05 | 1.34E-05 | 7.36E-06 | 8.63E-07 | 9.59E-06 | 5.96E-06 | 5.96E-06 | 2.95E-06 |
| 269 | 258680.19 | 4085687.74 | 8.26E-06 | 1.19E-04 | 8.80E-05 | 8.80E-05 | 4.91E-05 | 1.25E-06 | 1.81E-05 | 1.37E-05 | 1.37E-05 | 7.55E-06 | 6.81E-07 | 9.84E-06 | 6.11E-06 | 6.11E-06 | 2.03E-06 |
| 270 | 258658.25 | 4085697.87 | 8.47E-06 | 1.22E-04 | 9.03E-05 | 9.03E-05 | 5.03E-05 | 1.29E-06 | 1.87E-05 | 1.41E-06 | 1.41E-05 | 7.75E-06 | 8.98E-07 | 1.01E-05 | 9.27E-06 | 8.27E-06 | 3.10E-06 |
| 271 | 258636.35 | 4085708 | 8.67E-06 | 1.25E-04 | 9.24E-05 | 9.24E-05 | 5.25E-05 | 1.22E-06 | 1.91E-05 | 1.44E-05 | 1.44E-05 | 7.93E-06 | 7.14E-07 | 1.03E-05 | 6.42E-06 | 6.42E-06 | 3.18E-06 |
| 272 | 258614.45 | 4085718.12 | 8.84E-06 | 1.28E-04 | 9.43E-05 | 9.43E-05 | 5.26E-05 | 1.54E-06 | 1.95E-05 | 1.47E-05 | 1.47E-05 | 8.09E-06 | 7.29E-07 | 1.05E-05 | 6.55E-06 | 6.55E-06 | 3.24E-06 |
| 273 | 258592.55 | 4085728.26 | 9.01E-06 | 1.30E-04 | 9.60E-05 | 9.60E-05 | 5.35E-05 | 1.37E-06 | 1.98E-05 | 1.50E-05 | 1.50E-05 | 8.24E-06 | 7.42E-07 | 1.07E-05 | 8.67E-06 | 6.67E-06 | 2.30E-06 |
| 274 | 258570.65 | 4085738.39 | 9.16E-06 | 1.32E-04 | 9.76E-05 | 9.76E-05 | 5.44E-05 | 1.39E-06 | 2.02E-05 | 1.52E-05 | 1.52E-05 | 8.38E-06 | 7.55E-07 | 1.09E-05 | 6.78E-06 | 6.78E-06 | 2.36E-06 |
| 275 | 258548.75 | 4085748.52 | 9.30E-06 | 1.35E-04 | 9.92E-05 | 9.92E-05 | 5.53E-05 | 1.41E-06 | 2.05E-05 | 1.55E-05 | 1.55E-05 | 8.51E-06 | 7.67E-07 | 1.11E-05 | 6.89E-06 | 6.89E-06 | 2.41E-06 |
| 276 | 258526.84 | 4085758.65 | 9.46E-06 | 1.37E-04 | 1.01E-04 | 1.01E-04 | 5.92E-05 | 1.44E-06 | 2.08E-05 | 1.57E-05 | 1.57E-05 | 8.66E-06 | 7.80E-07 | 1.13E-05 | 7.00E-06 | 7.00E-06 | 2.47E-06 |
| 277 | 258504.94 | 4085768.79 | 9.63E-06 | 1.39E-04 | 1.03E-04 | 1.03E-04 | 5.72E-05 | 1.46E-06 | 2.12E-05 | 1.60E-05 | 1.60E-05 | 8.61E-06 | 7.94E-07 | 1.15E-05 | 7.13E-06 | 7.12E-06 | 2.53E-06 |
| 278 | 258483.04 | 4085778.91 | 9.82E-06 | 1.42E-04 | 1.05E-04 | 1.05E-04 | 5.84E-05 | 1.49E-06 | 2.16E-05 | 1.63E-05 | 1.63E-05 | 8.98E-06 | 8.09E-07 | 1.17E-05 | 7.27E-06 | 7.27E-06 | 2.60E-06 |
| 279 | 258461.14 | 4085789.04 | 1.00E-05 | 1.45E-04 | 1.07E-04 | 1.07E-04 | 5.96E-05 | 1.52E-06 | 2.21E-05 | 1.67E-06 | 1.67E-05 | 9.17E-06 | 8.26E-07 | 1.19E-05 | 7.42E-06 | 7.42E-06 | 3.67E-06 |
| 280 | 258439.24 | 4085799.17 | 1.02E-05 | 1.48E-04 | 1.09E-04 | 1.09E-04 | 6.08E-05 | 1.55E-06 | 2.25E-05 | 1.70E-06 | 1.70E-05 | 9.36E-06 | 8.43E-07 | 1.22E-05 | 7.58E-06 | 7.58E-06 | 3.73E-06 |
| 281 | 258417.33 | 4085809.3 | 1.05E-06 | 1.51E-04 | 1.11E-04 | 1.11E-04 | 9.21E-05 | 1.59E-06 | 2.30E-05 | 1.74E-05 | 1.74E-06 | 9.56E-06 | 8.91E-07 | 1.25E-05 | 7.74E-06 | 7.74E-06 | 3.83E-06 |
| 282 | 259064.19 | 4085099.99 | 1.15E-05 | 1.66E-04 | 1.22E-04 | 1.22E-04 | 9.82E-06 | 1.74E-05 | 2.53E-05 | 1.91E-05 | 1.91E-05 | 1.05E-05 | 9.45E-07 | 1.37E-05 | 8.49E-06 | 8.49E-06 | 4.20E-06 |
| 283 | 259063.44 | 4085074.93 | 1.19E-05 | 1.72E-04 | 1.27E-04 | 1.27E-04 | 7.07E-05 | 1.81E-06 | 2.62E-05 | 1.98E-05 | 1.98E-05 | 1.09E-05 | 9.80E-07 | 1.42E-05 | 8.81E-06 | 8.81E-06 | 4.36E-06 |
| 284 | 259062.72 | 4085050.18 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.25E-05 | 1.88E-06 | 2.72E-05 | 2.06E-05 | 2.06E-06 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.16E-06 | 9.19E-06 | 4.53E-06 |
| 285 | 259061.99 | 4085025.42 | 1.29E-05 | 1.86E-04 | 1.37E-04 | 1.37E-04 | 7.66E-05 | 1.96E-06 | 2.84E-06 | 2.14E-06 | 2.14E-05 | 1.16E-05 | 1.06E-06 | 1.54E-05 | 9.54E-06 | 9.54E-06 | 4.72E-06 |
| 286 | 259061.27 | 4085000.66 | 1.35E-05 | 1.95E-04 | 1.43E-04 | 1.43E-04 | 8.00E-05 | 2.04E-06 | 2.97E-05 | 2.24E-05 | 2.24E-05 | 1.23E-05 | 1.11E-06 | 1.60E-05 | 9.97E-06 | 9.97E-06 | 4.93E-06 |
| 287 | 259060.55 | 4034975.91 | 1.41E-05 | 2.04E-04 | 1.50E-04 | 1.50E-04 | 8.37E-06 | 2.14E-06 | 3.10E-06 | 2.34E-05 | 2.34E-05 | 1.29E-05 | 1.16E-06 | 1.68E-05 | 1.04E-05 | 1.04E-05 | 5.16E-06 |
| 288 | 259059.83 | 4084951.15 | 1.48E-05 | 2.13E-04 | 1.57E-04 | 1.57E-04 | 8.77E-05 | 2.24E-06 | 3.25E-05 | 2.46E-05 | 2.46E-05 | 1.35E-05 | 1.22E-06 | 1.76E-05 | 1.09E-05 | 1.09E-05 | 5.41E-06 |
| 289 | 259059.1 | 4084926.4 | 1.55E-05 | 2.24E-04 | 1.65E-04 | 1.65E-04 | 9.20E-05 | 2.35E-05 | 3.41E-05 | 2.58E-05 | 2.58E-05 | 1.42E-05 | 1.28E-06 | 1.84E-05 | 1.15E-05 | 1.15E-05 | 5.67E-06 |
| 290 | 259058.38 | 4084901.64 | 1.62E-05 | 2.36E-04 | 1.73E-04 | 1.73E-04 | 9.64E-05 | 2.46E-05 | 3.58E-05 | 2.70E-05 | 2.70E-05 | 1.48E-05 | 1.34E-06 | 1.92E-05 | 1.20E-05 | 1.20E-05 | 5.95E-06 |
| 291 | 259255.5 | 4085118.67 | 8.09E-06 | 1.17E-04 | 8.62E-05 | 8.62E-05 | 4.81E-05 | 1.23E-05 | 1.76E-05 | 1.35E-05 | 2.35E-05 | 7.40E-06 | 6.66E-07 | 9.64E-06 | 5.99E-06 | 5.99E-06 | 2.96E-06 |
| 292 | 259248.91 | 4085129.49 | 8.01E-06 | 1.16E-04 | 8.54E-05 | 8.54E-05 | 4.76E-05 | 1.22E-06 | 1.76E-05 | 1.32E-05 | 1.23E-05 | 7.33E-06 | 6.60E-07 | 9.55E-06 | 5.93E-06 | 5.93E-06 | 2.94E-06 |
| 292 | 259238.22 | 4085162.3 | 7.91E-06 | 1.14E-04 | 8.44E-05 | 8.44E-05 | 4.70E-05 | 1.20E-06 | 1.74E-05 | 1.32E-06 | 1.22E-05 | 7.24E-06 | 9.52E-07 | 9.43E-06 | 5.86E-06 | 5.86E-06 | 2.90E-06 |
| 294 | 259229.75 | 4085185.12 | 7.79E-06 | 1.13E-04 | 8.31E-05 | 8.31E-05 | 4.63E-05 | 1.18E-05 | 1.72E-05 | 1.30E-05 | 1.30E-05 | 7.13E-06 | 6.42E-07 | 9.29E-06 | 5.77E-05 | 5.77E-06 | 2.86E-06 |
| 295 | 259221.17 | 4085207.94 | 7.63E-06 | 1.10E-04 | 8.13E-05 | 8.13E-05 | 4.53E-05 | 1.16E-06 | 1.68E-05 | 1.27E-05 | 1.27E-05 | 6.98E-06 | 6.29E-07 | 9.09E-06 | 5.65E-06 | 5.65E-06 | 2.80E-06 |
| 296 | 259212.59 | 4085230.75 | 7.47E-06 | 1.08E-04 | 7.96E-06 | 7.96E-05 | 4.44E-05 | 1.13E-06 | 1.65E-05 | 1.24E-05 | 1.24E-06 | 6.84E-06 | 6.16E-07 | 8.91E-06 | 5.53E-06 | 5.53E-06 | 2.74E-06 |
| 297 | 259204.01 | 4085253.57 | 7.31E-06 | 1.06E-04 | 7.79E-05 | 7.79E-05 | 4.34E-05 | 1.11E-06 | 1.91E-05 | 1.22E-05 | 1.22E-05 | 6.68E-06 | 6.02E-07 | 8.71E-06 | 5.41E-06 | 5.41E-05 | 2.68E-06 |
| 298 | 259195.42 | 4085276.39 | 7.14E-06 | 1.03E-04 | 7.61E-05 | 7.61E-05 | 4.24E-05 | 1.08E-06 | 1.57E-05 | 1.19E-05 | 1.19E-05 | 6.52E-06 | 5.88E-07 | 8.51E-06 | 5.29E-06 | 5.29E-06 | 2.62E-06 |
| 299 | 259186.84 | 4085299.2 | 6.97E-06 | 1.01E-04 | 7.43E-05 | 7.43E-05 | 4.14E-05 | 1.06E-06 | 1.54E-05 | 1.16E-05 | 1.16E-05 | 8.38E-06 | 5.75E-07 | 8.31E-06 | 5.16E-06 | 5.16E-06 | 2.56E-06 |
| 300 | 259178.29 | 4085322.02 | 8.82E-06 | 9.86E-05 | 7.27E-05 | 7.27E-05 | 4.05E-05 | 1.02E-06 | 1.50E-05 | 1.13E-05 | 1.13E-05 | 8.24E-06 | 5.62E-07 | 8.13E-06 | 5.05E-06 | 5.05E-06 | 2.50E-06 |
| 301 | 259169.66 | 4085344.84 | 6.67E-06 | 9.65E-05 | 7.11E-05 | 7.11E-05 | 3.96E-05 | 1.01E-06 | 1.47E-05 | 1.11E-05 | 1.11E-05 | 6.10E-05 | 5.50E-07 | 7.95E-06 | 4.94E-06 | 4.94E-06 | 2.44E-06 |
| 302 | 259161.1 | 4085367.65 | 6.54E-06 | 9.45E-05 | 6.97E-05 | 6.97E-05 | 3.88E-05 | 9.92E-07 | 1.44E-05 | 1.09E-05 | 1.09E-06 | 5.98E-06 | 5.39E-07 | 7.79E-06 | 4.84E-06 | 4.84E-06 | 2.40E-06 |
| 303 | 259152.52 | 4085390.47 | 9.41E-06 | 9.28E-05 | 6.84E-05 | 6.84E-05 | 3.81E-05 | 9.73E-07 | 1.41E-05 | 1.07E-05 | 1.07E-05 | 5.87E-05 | 5.29E-07 | 7.65E-06 | 4.75E-06 | 4.75E-06 | 2.35E-06 |
| 304 | 259143.93 | 4085413.28 | 9.30E-06 | 9.11E-05 | 6.72E-05 | 6.72E-05 | 3.74E-05 | 9.56E-07 | 1.39E-05 | 1.05E-05 | 1.05E-05 | 5.77E-06 | 5.19E-07 | 7.51E-06 | 4.67E-06 | 4.67E-06 | 2.21E-06 |
| 305 | 259135.35 | 4085436.1 | 8.20E-06 | 8.96E-05 | 6.61E-05 | 6.61E-05 | 3.68E-05 | 9.40E-07 | 1.27E-05 | 1.02E-05 | 1.03E-05 | 5.67E-06 | 5.11E-07 | 7.39E-06 | 4.59E-06 | 4.59E-06 | 2.27E-06 |
| 306 | 259126.77 | 4085458.92 | 6.09E-06 | 8.81E-05 | 6.50E-05 | 6.50E-05 | 3.62E-05 | 9.25E-07 | 1.34E-05 | 1.01E-05 | 1.01E-05 | 5.58E-06 | 5.02E-07 | 7.77E-06 | 4.51E-06 | 4.51E-06 | 2.23E-06 |
| 307 | 259118.19 | 4085481.73 | 5.99E-06 | 8.67E-05 | 6.39E-05 | 8.39E-05 | 3.56E-05 | 9.10E-07 | 1.32E-05 | 9.98E-06 | 9.98E-06 | 5.48E-06 | 4.94E-07 | 7.15E-06 | 4.44E-05 | 4.44E-05 | 2.20E-05 |
| 308 | 259109.61 | 4085504.55 | 5.89E-06 | 8.52E-05 | 9.28E-05 | 6.28E-05 | 3.50E-05 | 8.94E-07 | 1.30E-05 | 9.81E-06 | 9.81E-06 | 5.39E-05 | 4.86E-07 | 7.02E-06 | 4.36E-06 | 4.36E-05 | 2.16E-06 |
| 309 | 259101.02 | 4085627.37 | 5.79E-06 | 8.37E-05 | 6.17E-05 | 6.17E-05 | 3.44E-05 | 8.79E-07 | 1.28E-05 | 9.64E-06 | 9.64E-06 | 5.30E-06 | 4.77E-07 | 6.90E-06 | 4.29E-06 | 4.29E-06 | 2.12E-06 |
| 310 | 259092.44 | 4085550.18 | 5.69E-06 | 8.22E-05 | 6.06E-05 | 6.06E-05 | 3.38E-05 | 8.63E-07 | 1.25E-05 | 9.46E-06 | 9.46E-06 | 5.20E-06 | 4.69E-07 | 8.78E-06 | 4.21E-06 | 4.21E-05 | 2.08E-06 |
| 311 | 259083.66 | 4085573 | 5.58E-06 | 8.07E-05 | 5.95E-05 | 5.95E-05 | 2.32E-05 | 8.47E-07 | 1.23E-05 | 9.29E-06 | 9.29E-06 | 5.11E-06 | 4.60E-07 | 8.68E-06 | 4.15E-06 | 4.13E-06 | 2.05E-06 |
| 312 | 259075.28 | 4085595.82 | 5.47E-06 | 7.92E-05 | 5.83E-05 | 5.82E-06 | 3.25E-05 | 8.21E-07 | 1.21E-05 | 9.11E-06 | 9.11E-06 | 5.01E-06 | 4.51E-07 | 8.53E-06 | 4.05E-06 | 4.05E-06 | 2.01E-06 |
| 213 | 259066.7 | 4085618.63 | 5.37E-06 | 7.76E-05 | 5.72E-05 | 5.72E-05 | 3.19E-05 | 8.14E-07 | 1.18E-05 | 8.93E-06 | 8.93E-06 | 4.91E-06 | 4.42E-07 | 6.40E-06 | 3.97E-06 | 3.97E-06 | 1.97E-06 |
| 214 | 259058.12 | 4085641.45 | 5.26E-06 | 7.61E-05 | 5.61E-05 | 5.61E-05 | 3.13E-05 | 7.99E-07 | 1.16E-05 | 8.76E-06 | 8.76E-06 | 4.82E-06 | 4.34E-07 | 6.28E-06 | 3.90E-06 | 3.90E-06 | 1.93E-05 |
| 215 | 259049.53 | 4085664.27 | 5.17E-06 | 7.47E-05 | 5.51E-05 | 5.51E-05 | 3.07E-05 | 7.84E-07 | 1.14E-05 | 8.60E-06 | 8.60E-06 | 4.73E-06 | 4.26E-07 | 6.16E-06 | 3.83E-06 | 3.83E-06 | 1.89E-06 |
| 316 | 259040.95 | 4085687.08 | 5.08E-06 | 7.34E-05 | 5.41E-05 | 5.41E-05 | 3.02E-05 | 7.70E-07 | 1.12E-05 | 8.45E-06 | 8.45E-06 | 4.64E-06 | 4.18E-07 | 8.05E-06 | 3.76E-05 | 2.76E-06 | 1.88E-05 |
| 217 | 259032.37 | 4085709.9 | 4.99E-06 | 7.22E-06 | 5.32E-05 | 5.32E-05 | 2.97E-05 | 7.58E-07 | 1.10E-05 | 8.21E-06 | 6.31E-06 | 4.57E-06 | 4.11E-07 | 5.95E-06 | 2.70E-06 | 3.70E-06 | 1.83E-06 |
| 318 | 259001.66 | 4085742.95 | 4.98E-06 | 7.20E-05 | 5.30E-05 | 5.30E-05 | 2.96E-05 | 7.55E-07 | 1.10E-05 | 8.28E-06 | 8.28E-05 | 4.55E-05 | 4.10E-07 | 5.93E-06 | 3.68E-06 | 3.68E-06 | 1.82E-06 |
| 319 | 258979.54 | 4085753.18 | 5.04E-06 | 7.29E-05 | 5.27E-05 | 5.37E-05 | 2.99E-05 | 7.65E-07 | 1.11E-05 | 8.29E-06 | 8.29E-06 | 4.61E-06 | 4.15E-07 | 6.01E-06 | 3.73E-06 | 3.71E-06 | 1.85E-06 |
| 320 | 258957.41 | 4085793.41 | 5.11E-06 | 7.39E-05 | 5.44E-05 | 5.44E-05 | 3.03E-05 | 7.75E-07 | 1.13E-05 | 8.50E-06 | 8.50E-06 | 4.67E-06 | 4.21E-07 | 8.09E-06 | 2.78E-06 | 3.78E-06 | 1.87E-06 |
| 321 | 258935.29 | 4085773.65 | 5.18E-06 | 7.49E-05 | 5.52E-05 | 5.52E-05 | 3.08E-05 | 7.86E-07 | 1.14E-05 | 8.62E-06 | 8.62E-05 | 4.74E-06 | 4.27E-07 | 6.17E-06 | 2.83E-06 | 3.83E-06 | 1.90E-06 |
| 322 | 258913.19 | 4085783.88 | 5.25E-06 | 7.60E-05 | 5.60E-05 | 5.60E-05 | 3.12E-05 | 7.97E-07 | 1.16E-05 | 8.75E-06 | 8.75E-06 | 4.81E-06 | 4.33E-07 | 6.26E-06 | 3.89E-06 | 3.89E-06 | 1.93E-06 |
| 222 | 258891.04 | 4085794.11 | 5.34E-06 | 7.72E-05 | 5.69E-05 | 5.69E-05 | 3.17E-05 | 8.10E-07 | 1.18E-05 | 8.88E-06 | 8.88E-06 | 4.88E-05 | 4.40E-07 | 6.36E-06 | 3.95E-06 | 3.95E-06 | 1.96E-06 |
| 324 | 258868.91 | 4085804.34 | 5.42E-06 | 7.84E-05 | 5.78E-05 | 5.78E-05 | 3.22E-05 | 8.23E-07 | 1.20E-05 | 9.03E-06 | 9.03E-06 | 4.96E-06 | 4.47E-07 | 6.47E-06 | 4.02E-06 | 4.02E-06 | 1.99E-06 |
| 325 | 258846.79 | 4085814.58 | 5.52E-05 | 7.99E-05 | 5.89E-06 | 5.89E-06 | 3.28E-05 | 8.38E-07 | 1.22E-05 | 9.19E-06 | 9.19E-06 | 5.05E-06 | 4.55E-07 | 6.58E-06 | 4.09E-06 | 4.09E-06 | 2.02E-06 |
| 326 | 258824.66 | 4085824.91 | 5.64E-05 | 8.15E-05 | 6.01E-05 | 6.01E-05 | 3.35E-05 | 8.55E-07 | 1.24E-05 | 9.38E-06 | 9.38E-06 | 5.16E-06 | 4.64E-07 | 6.72E-06 | 4.17E-06 | 4.17E-06 | 2.07E-05 |
| 327 | 258802.54 | 4085835.04 | 5.79E-06 | 8.33E-05 | 6.14E-05 | 6.14E-05 | 2.41E-05 | 8.74E-07 | 1.27E-05 | 9.58E-06 | 9.58E-06 | 5.27E-06 | 4.75E-07 | 6.86E-06 | 4.26E-06 | 4.26E-06 | 2.11E-06 |
| 328 | 258780.41 | 4085845.27 | 5.89E-06 | 8.52E-05 | 8.28E-05 | 6.28E-05 | 3.50E-05 | 8.94E-07 | 1.30E-05 | 9.61E-06 | 9.81E-05 | 5.39E-06 | 4.85E-07 | 7.02E-06 | 4.36E-06 | 4.36E-06 | 2.16E-06 |
| 329 | 258758.29 | 4085855.51 | 6.04E-05 | 8.73E-05 | 8.44E-05 | 6.44E-05 | 3.59E-05 | 9.16E-07 | 1.33E-05 | 1.00E-05 | 1.00E-05 | 5.52E-06 | 4.98E-07 | 7.20E-06 | 4.47E-06 | 4.47E-06 | 2.21E-06 |
| 230 | 258736.19 | 4085865.74 | 6.18E-06 | 8.94E-05 | 6.59E-05 | 6.59E-05 | 2.67E-05 | 9.28E-07 | 1.35E-05 | 1.03E-05 | 1.03E-05 | 5.66E-05 | 5.09E-07 | 7.27E-06 | 4.58E-06 | 4.58E-06 | 2.27E-06 |
| 331 | 258714.04 | 4085875.97 | 6.21E-05 | 9.13E-05 | 8.73E-05 | 6.73E-05 | 3.75E-05 | 9.58E-07 | 1.29E-05 | 1.05E-05 | 1.05E-05 | 5.78E-06 | 5.20E-07 | 7.55E-06 | 4.68E-06 | 4.68E-06 | 2.31E-06 |
| 222 | 258691.91 | 4085886.2 | 6.44E-06 | 9.21E-05 | 6.87E-05 | 6.87E-05 | 3.83E-05 | 9.77E-07 | 1.42E-05 | 1.07E-05 | 1.07E-05 | 5.89E-06 | 5.31E-07 | 7.68E-06 | 4.77E

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 114 | 258664.33 | 4085111.36 | 3.44E-05 | 4.98E-04 | 3.67E-04 | 3.67E-04 | 2.05E-04 | 5.23E-06 | 7.59E-05 | 5.73E-05 | 5.73E-05 | 3.15E-05 | 2.84E-06 | 4.11E-05 | 2.55E-05 | 2.55E-05 | 1.26E-05 |
| 115 | 258663.61 | 4085086.6 | 3.77E-05 | 5.45E-04 | 4.02E-04 | 4.02E-04 | 2.24E-04 | 5.72E-06 | 8.30E-05 | 6.27E-05 | 6.27E-06 | 3.45E-06 | 3.11E-06 | 4.49E-05 | 2.79E-05 | 2.79E-05 | 1.38E-05 |
| 116 | 258662.89 | 4085061.85 | 4.13E-05 | 5.97E-04 | 4.40E-04 | 4.40E-04 | 2.45E-04 | 6.27E-06 | 9.10E-05 | 6.87E-05 | 6.87E-05 | 3.78E-05 | 3.40E-06 | 4.92E-05 | 3.06E-05 | 3.06E-05 | 1.51E-05 |
| 117 | 258662.16 | 4085037.09 | 4.53E-05 | 6.55E-04 | 4.83E-04 | 4.83E-04 | 2.69E-04 | 6.88E-06 | 9.98E-05 | 7.54E-05 | 7.54E-05 | 4.15E-05 | 3.74E-06 | 5.40E-05 | 3.36E-06 | 3.36E-05 | 1.66E-05 |
| 118 | 258661.44 | 4085012.33 | 4.97E-05 | 7.19E-04 | 5.30E-04 | 5.30E-04 | 2.95E-04 | 7.54E-06 | 1.09E-04 | 8.27E-05 | 8.27E-05 | 4.55E-05 | 4.10E-05 | 5.92E-05 | 3.68E-05 | 3.68E-05 | 1.82E-05 |
| 119 | 258660.72 | 4084987.58 | 5.43E-05 | 7.86E-04 | 5.79E-04 | 5.79E-04 | 3.23E-04 | 8.25E-06 | 1.20E-04 | 9.04E-05 | 9.04E-05 | 4.97E-05 | 4.48E-06 | 6.48E-05 | 4.02E-05 | 4.02E-05 | 1.99E-05 |
| 120 | 258660 | 4084962.82 | 5.91E-05 | 6.55E-04 | 6.30E-04 | 6.30E-04 | 3.51E-04 | 8.97E-06 | 1.30E-04 | 9.84E-05 | 9.84E-05 | 5.41E-05 | 4.87E-05 | 7.05E-05 | 4.38E-05 | 4.38E-05 | 2.17E-05 |
| 121 | 258659.27 | 4084938.06 | 6.38E-05 | 9.23E-04 | 6.81E-04 | 6.81E-04 | 3.79E-04 | 9.69E-06 | 1.41E-04 | 1.06E-04 | 1.06E-04 | 5.84E-05 | 5.26E-06 | 7.61E-05 | 4.73E-05 | 4.73E-05 | 2.34E-05 |
| 122 | 258658.55 | 4084913.31 | 6.82E-05 | 9.87E-04 | 7.27E-04 | 7.27E-04 | 4.06E-04 | 1.04E-05 | 1.50E-04 | 1.14E-04 | 1.14E-04 | 6.24E-05 | 5.62E-06 | 8.14E-06 | 5.05E-05 | 5.05E-05 | 2.50E-05 |
| 123 | 258756.07 | 4085130.28 | 2.34E-05 | 3.38E-04 | 2.49E-04 | 2.49E-04 | 1.39E-04 | 3.55E-06 | 5.15E-05 | 3.89E-05 | 3.89E-05 | 2.14E-05 | 1.93E-06 | 2.78E-05 | 1.73E-06 | 1.73E-05 | 8.56E-06 |
| 124 | 258747.86 | 4085152.12 | 2.26E-05 | 3.27E-04 | 2.41E-04 | 2.41E-04 | 1.34E-04 | 3.43E-06 | 4.98E-05 | 3.76E-05 | 3.76E-05 | 2.07E-05 | 1.86E-06 | 2.69E-05 | 1.67E-05 | 1.67E-05 | 8.28E-06 |
| 125 | 258739.64 | 4085173.97 | 2.18E-05 | 3.16E-04 | 2.33E-04 | 2.33E-04 | 1.30E-04 | 3.31E-06 | 4.81E-05 | 3.63E-05 | 3.63E-05 | 2.00E-05 | 1.80E-06 | 2.60E-05 | 1.62E-05 | 1.62E-05 | 8.00E-06 |
| 126 | 258731.43 | 4085195.81 | 2.10E-05 | 3.04E-04 | 2.24E-04 | 2.24E-04 | 1.25E-04 | 3.19E-06 | 4.63E-05 | 3.50E-05 | 3.50E-05 | 1.92E-05 | 1.73E-06 | 2.51E-05 | 1.56E-05 | 1.56E-05 | 7.71E-06 |
| 127 | 258723.22 | 4085217.65 | 2.02E-05 | 2.93E-04 | 2.16E-04 | 2.16E-04 | 1.20E-04 | 3.07E-06 | 4.46E-05 | 3.37E-06 | 3.37E-05 | 1.85E-05 | 1.67E-06 | 2.41E-05 | 2.50E-05 | 1.50E-05 | 7.42E-06 |
| 128 | 258715 | 4085239.49 | 1.95E-05 | 2.81E-04 | 2.07E-04 | 2.07E-04 | 1.16E-04 | 2.95E-05 | 4.29E-05 | 3.24E-05 | 3.24E-05 | 1.78E-05 | 1.60E-06 | 2.32E-06 | 1.44E-05 | 1.44E-05 | 7.13E-06 |
| 129 | 258706.79 | 4085261.33 | 1.87E-05 | 2.70E-04 | 1.99E-04 | 1.99E-04 | 1.11E-04 | 2.84E-05 | 4.12E-05 | 3.11E-05 | 3.11E-05 | 1.71E-05 | 1.54E-06 | 2.23E-05 | 1.38E-05 | 1.38E-05 | 6.85E-06 |
| 130 | 258698.57 | 4085283.17 | 1.80E-05 | 2.60E-04 | 1.91E-04 | 1.91E-04 | 1.07E-04 | 2.73E-06 | 3.96E-05 | 2.99E-05 | 2.99E-06 | 1.64E-05 | 1.48E-05 | 2.14E-05 | 1.33E-05 | 1.33E-05 | 6.58E-05 |
| 131 | 258690.36 | 4085305.01 | 1.72E-06 | 2.49E-04 | 1.84E-04 | 1.84E-04 | 1.02E-04 | 2.62E-05 | 3.80E-05 | 2.87E-05 | 2.87E-05 | 1.58E-05 | 1.42E-06 | 2.06E-05 | 1.28E-06 | 1.28E-06 | 6.32E-06 |
| 132 | 258682.14 | 4085326.85 | 1.65E-05 | 2.39E-04 | 1.76E-04 | 1.76E-04 | 9.83E-05 | 2.51E-05 | 3.64E-06 | 2.75E-05 | 2.75E-05 | 1.51E-05 | 1.36E-05 | 1.97E-05 | 1.22E-05 | 1.22E-05 | 6.06E-06 |
| 133 | 258673.93 | 4085348.7 | 1.60E-06 | 2.31E-04 | 1.70E-04 | 1.70E-04 | 9.48E-05 | 2.42E-05 | 3.51E-05 | 2.66E-05 | 2.66E-05 | 1.46E-05 | 1.31E-06 | 1.90E-05 | 1.18E-06 | 1.16E-05 | 5.85E-06 |
| 134 | 258665.71 | 4085370.54 | 1.54E-06 | 2.22E-04 | 1.64E-04 | 1.64E-04 | 9.13E-05 | 2.33E-05 | 3.38E-05 | 2.56E-05 | 2.56E-05 | 1.41E-05 | 1.27E-06 | 1.83E-06 | 1.14E-05 | 1.14E-05 | 5.63E-05 |
| 135 | 258656.32 | 4085402.17 | 1.53E-05 | 2.21E-04 | 1.63E-04 | 1.63E-04 | 9.09E-06 | 2.32E-06 | 3.37E-05 | 2.54E-06 | 2.54E-05 | 1.40E-05 | 1.26E-06 | 1.82E-05 | 1.13E-05 | 1.13E-05 | 5.60E-06 |
| 136 | 258615.14 | 4085411.97 | 1.57E-05 | 2.27E-04 | 1.68E-04 | 1.68E-04 | 9.35E-06 | 2.39E-06 | 3.47E-05 | 2.62E-05 | 2.62E-05 | 1.44E-05 | 1.30E-06 | 1.88E-05 | 1.16E-05 | 1.16E-06 | 5.77E-06 |
| 137 | 258593.96 | 4085421.76 | 1.62E-05 | 2.35E-04 | 1.73E-04 | 1.73E-04 | 9.64E-06 | 2.46E-06 | 3.57E-05 | 2.70E-05 | 2.70E-05 | 1.48E-05 | 1.34E-06 | 1.93E-05 | 1.20E-06 | 1.20E-05 | 5.95E-06 |
| 138 | 258572.78 | 4085431.56 | 1.68E-05 | 2.42E-04 | 1.79E-04 | 1.79E-04 | 9.96E-05 | 2.54E-05 | 3.69E-05 | 2.79E-05 | 2.79E-05 | 1.53E-06 | 1.38E-06 | 2.00E-05 | 1.24E-06 | 1.24E-05 | 6.14E-06 |
| 139 | 258551.6 | 4085441.36 | 1.73E-05 | 2.51E-04 | 1.85E-04 | 1.85E-04 | 1.03E-04 | 2.63E-06 | 3.82E-05 | 2.88E-06 | 2.88E-06 | 2.59E-05 | 1.43E-05 | 2.07E-05 | 1.28E-06 | 1.28E-06 | 6.35E-06 |
| 140 | 258530.42 | 4085451.15 | 1.79E-05 | 2.59E-04 | 1.91E-04 | 1.91E-04 | 1.06E-04 | 2.72E-06 | 3.94E-05 | 2.96E-05 | 2.98E-05 | 1.64E-05 | 1.48E-06 | 2.13E-05 | 1.33E-05 | 1.33E-05 | 8.56E-06 |
| 141 | 258509.24 | 4085460.95 | 1.84E-05 | 2.67E-04 | 1.96E-04 | 1.96E-04 | 1.10E-04 | 2.80E-06 | 4.06E-05 | 3.07E-05 | 3.07E-05 | 1.69E-05 | 1.52E-06 | 2.20E-05 | 1.36E-05 | 1.36E-05 | 6.75E-06 |
| 142 | 258488.06 | 4085470.74 | 1.89E-05 | 2.74E-04 | 2.02E-04 | 2.02E-04 | 1.12E-04 | 2.87E-06 | 4.17E-06 | 3.15E-05 | 3.15E-05 | 1.73E-06 | 1.56E-06 | 2.26E-05 | 1.40E-05 | 1.40E-05 | 6.94E-06 |
| 143 | 258466.88 | 4085480.54 | 1.94E-05 | 2.81E-04 | 2.07E-04 | 2.07E-04 | 1.15E-04 | 2.95E-06 | 4.28E-05 | 3.23E-05 | 3.23E-05 | 1.78E-05 | 1.60E-06 | 2.31E-05 | 1.44E-05 | 1.44E-05 | 7.11E-06 |
| 144 | 258445.7 | 4085490.33 | 1.99E-05 | 2.88E-04 | 2.12E-04 | 2.12E-04 | 1.18E-04 | 3.02E-06 | 4.39E-05 | 3.31E-05 | 3.31E-05 | 1.82E-05 | 1.64E-06 | 2.37E-05 | 1.47E-05 | 1.47E-05 | 7.30E-06 |
| 145 | 258424.52 | 4085500.13 | 2.04E-05 | 2.96E-04 | 2.18E-04 | 2.18E-04 | 1.21E-04 | 3.10E-06 | 4.50E-05 | 3.40E-05 | 3.40E-06 | 1.87E-05 | 1.68E-06 | 2.44E-05 | 1.51E-06 | 1.51E-06 | 7.49E-06 |
| 146 | 258403.34 | 4085509.92 | 2.10E-05 | 3.04E-04 | 2.24E-04 | 2.24E-04 | 1.25E-04 | 3.19E-06 | 4.63E-06 | 3.49E-05 | 3.49E-05 | 1.92E-05 | 1.73E-06 | 2.50E-06 | 1.55E-05 | 1.55E-05 | 7.69E-06 |
| 147 | 258764.29 | 4085108.44 | 2.41E-05 | 3.49E-04 | 2.57E-04 | 2.57E-04 | 1.43E-04 | 3.66E-06 | 5.31E-05 | 4.01E-05 | 4.01E-06 | 2.21E-06 | 1.99E-06 | 2.87E-05 | 1.79E-05 | 1.79E-05 | 8.84E-06 |
| 148 | 258763.57 | 4085083.68 | 2.58E-05 | 3.73E-04 | 2.75E-04 | 2.75E-04 | 1.53E-04 | 3.92E-06 | 5.69E-05 | 4.30E-06 | 4.30E-05 | 2.36E-05 | 2.13E-06 | 3.08E-05 | 1.91E-05 | 1.91E-05 | 9.46E-06 |
| 149 | 258762.84 | 4085058.93 | 2.77E-06 | 4.01E-04 | 2.95E-04 | 2.95E-04 | 1.65E-04 | 4.21E-06 | 6.11E-05 | 4.61E-05 | 4.61E-05 | 2.54E-05 | 2.28E-06 | 3.30E-05 | 2.06E-06 | 2.05E-05 | 1.02E-05 |
| 150 | 258762.12 | 4085034.17 | 2.98E-05 | 4.31E-04 | 3.17E-04 | 3.17E-04 | 1.77E-04 | 4.52E-05 | 6.56E-06 | 4.96E-05 | 4.96E-05 | 2.73E-05 | 2.45E-06 | 3.55E-05 | 2.21E-05 | 2.21E-05 | 1.09E-05 |
| 151 | 258761.4 | 4085009.42 | 3.20E-05 | 4.63E-04 | 3.41E-04 | 3.41E-04 | 1.90E-04 | 4.86E-06 | 7.06E-05 | 5.33E-05 | 5.33E-05 | 2.93E-05 | 2.64E-06 | 3.82E-06 | 2.37E-05 | 2.37E-06 | 1.17E-05 |
| 152 | 258760.68 | 4084984.66 | 3.44E-05 | 4.98E-04 | 3.67E-04 | 3.67E-04 | 2.05E-04 | 5.23E-06 | 7.59E-05 | 5.73E-05 | 5.73E-05 | 3.15E-06 | 2.84E-05 | 4.11E-05 | 2.55E-05 | 2.55E-05 | 1.26E-05 |
| 153 | 258759.95 | 4084959.9 | 3.70E-05 | 5.35E-04 | 3.95E-04 | 3.95E-04 | 2.20E-04 | 5.62E-06 | 6.15E-06 | 6.16E-06 | 6.16E-06 | 3.39E-05 | 3.05E-06 | 4.41E-05 | 2.74E-05 | 2.74E-05 | 2.36E-06 |
| 154 | 258759.23 | 4084935.15 | 3.97E-06 | 5.74E-04 | 4.23E-04 | 4.23E-04 | 2.36E-04 | 6.02E-06 | 8.74E-05 | 6.61E-05 | 6.61E-05 | 3.63E-05 | 3.27E-06 | 4.73E-05 | 2.94E-05 | 2.94E-05 | 1.45E-05 |
| 155 | 258758.51 | 4084910.39 | 4.24E-05 | 6.13E-04 | 4.52E-04 | 4.52E-04 | 2.52E-04 | 6.43E-06 | 9.34E-05 | 7.05E-05 | 7.05E-05 | 3.88E-05 | 3.49E-06 | 5.06E-05 | 3.14E-05 | 3.14E-05 | 1.55E-05 |
| 156 | 258855.9 | 4085127.71 | 1.76E-05 | 2.54E-04 | 1.87E-04 | 1.87E-04 | 1.04E-04 | 2.67E-06 | 3.87E-05 | 2.93E-05 | 2.93E-05 | 1.61E-05 | 1.45E-06 | 2.10E-05 | 1.30E-05 | 1.30E-05 | 6.44E-06 |
| 157 | 258847.56 | 4085149.89 | 1.71E-05 | 2.48E-04 | 1.83E-04 | 1.83E-04 | 1.02E-04 | 2.60E-06 | 3.77E-05 | 2.85E-05 | 2.85E-05 | 1.57E-06 | 1.41E-06 | 2.04E-05 | 1.27E-05 | 1.27E-05 | 6.28E-06 |
| 158 | 258839.22 | 4085172.07 | 1.66E-05 | 2.41E-04 | 1.77E-04 | 1.77E-04 | 9.89E-05 | 2.53E-06 | 3.67E-05 | 2.77E-05 | 2.77E-05 | 1.52E-05 | 1.37E-06 | 1.98E-05 | 1.23E-05 | 1.23E-05 | 6.10E-06 |
| 159 | 258830.87 | 4085194.25 | 1.61E-05 | 2.33E-04 | 1.72E-04 | 1.72E-04 | 9.59E-05 | 2.45E-06 | 3.56E-05 | 2.69E-05 | 2.69E-05 | 1.48E-05 | 1.33E-06 | 1.92E-05 | 1.20E-06 | 1.20E-05 | 5.92E-06 |
| 160 | 258822.53 | 4085216.44 | 1.56E-05 | 2.26E-04 | 1.67E-04 | 1.67E-04 | 9.29E-05 | 2.37E-06 | 3.45E-06 | 2.60E-05 | 2.60E-05 | 1.43E-05 | 1.29E-06 | 1.86E-05 | 1.16E-05 | 1.16E-05 | 5.73E-06 |
| 161 | 258814.19 | 4085238.62 | 1.51E-05 | 2.19E-04 | 1.61E-04 | 1.61E-04 | 9.00E-05 | 2.30E-06 | 3.34E-05 | 2.52E-05 | 2.52E-05 | 1.39E-05 | 1.25E-06 | 1.80E-05 | 1.12E-05 | 1.12E-06 | 5.55E-05 |
| 162 | 258805.84 | 4085260.8 | 1.47E-05 | 2.12E-04 | 1.56E-04 | 1.56E-04 | 8.71E-05 | 2.22E-05 | 3.23E-05 | 2.44E-05 | 2.44E-05 | 1.34E-05 | 1.21E-06 | 1.75E-05 | 1.09E-05 | 1.09E-05 | 5.37E-06 |
| 163 | 258797.5 | 4085282.98 | 1.42E-05 | 2.05E-04 | 1.51E-04 | 1.51E-04 | 8.43E-05 | 2.15E-06 | 3.12E-05 | 2.36E-05 | 2.36E-05 | 1.30E-05 | 1.17E-06 | 1.69E-05 | 1.05E-05 | 1.05E-05 | 5.20E-06 |
| 164 | 258789.16 | 4085305.17 | 1.37E-05 | 1.98E-04 | 1.48E-04 | 1.46E-04 | 6.14E-05 | 2.08E-06 | 3.02E-05 | 2.28E-05 | 2.28E-05 | 1.25E-05 | 1.13E-06 | 1.63E-05 | 1.01E-05 | 2.01E-05 | 5.02E-06 |
| 165 | 258780.81 | 4085327.35 | 1.32E-05 | 1.91E-04 | 1.40E-04 | 1.40E-04 | 7.83E-05 | 2.00E-06 | 2.90E-06 | 2.19E-05 | 2.19E-05 | 1.21E-05 | 1.09E-06 | 1.57E-05 | 9.76E-05 | 9.76E-06 | 4.83E-06 |
| 166 | 258772.47 | 4085349.53 | 1.27E-05 | 1.84E-04 | 1.36E-04 | 1.36E-04 | 7.57E-05 | 1.93E-06 | 2.81E-05 | 2.12E-05 | 2.12E-05 | 1.17E-05 | 1.05E-06 | 1.52E-05 | 9.43E-06 | 9.43E-06 | 4.67E-06 |
| 167 | 258764.13 | 4085371.72 | 1.23E-05 | 1.78E-04 | 1.31E-04 | 1.31E-04 | 7.33E-05 | 1.87E-06 | 2.72E-05 | 2.05E-06 | 2.05E-05 | 1.13E-05 | 1.02E-06 | 1.47E-06 | 9.13E-06 | 9.13E-06 | 4.52E-06 |
| 168 | 258755.78 | 4085393.9 | 1.19E-05 | 1.73E-04 | 1.27E-04 | 1.27E-04 | 7.09E-05 | 1.81E-06 | 2.62E-06 | 1.99E-05 | 1.99E-05 | 1.09E-05 | 9.84E-07 | 1.42E-05 | 8.84E-06 | 8.84E-06 | 4.38E-05 |
| 169 | 258747.44 | 4085416.08 | 1.16E-06 | 1.67E-04 | 1.23E-04 | 1.23E-04 | 6.88E-05 | 1.76E-06 | 2.55E-05 | 1.93E-06 | 1.93E-05 | 1.06E-05 | 9.54E-07 | 1.38E-05 | 8.57E-06 | 8.57E-06 | 4.24E-06 |
| 170 | 258739.1 | 4085438.26 | 1.12E-05 | 1.62E-04 | 1.20E-04 | 1.20E-04 | 6.67E-06 | 1.70E-06 | 2.47E-05 | 1.87E-05 | 2.87E-05 | 1.03E-05 | 9.26E-07 | 1.34E-05 | 8.32E-05 | 8.32E-06 | 4.12E-06 |
| 171 | 258709.24 | 4085470.39 | 1.12E-05 | 1.61E-04 | 1.19E-04 | 1.19E-04 | 6.63E-05 | 1.69E-06 | 2.46E-05 | 1.86E-05 | 1.86E-05 | 1.02E-05 | 9.19E-07 | 1.33E-05 | 8.26E-06 | 8.26E-06 | 4.09E-06 |
| 172 | 258687.73 | 4085480.34 | 1.14E-05 | 1.65E-04 | 1.22E-04 | 1.22E-04 | 6.78E-06 | 1.73E-06 | 2.51E-05 | 1.90E-06 | 1.90E-05 | 1.04E-05 | 9.40E-07 | 1.36E-05 | 8.45E-06 | 8.45E-06 | 4.18E-06 |
| 173 | 258666.22 | 4085490.29 | 1.17E-05 | 1.69E-04 | 1.25E-04 | 1.25E-04 | 6.95E-05 | 1.77E-06 | 2.58E-05 | 1.95E-05 | 1.95E-05 | 1.07E-05 | 9.64E-07 | 1.39E-05 | 8.66E-06 | 8.66E-06 | 4.29E-06 |
| 174 | 258644.71 | 4085500.24 | 1.20E-05 | 1.74E-04 | 1.28E-04 | 1.28E-04 | 7.14E-05 | 1.82E-06 | 2.65E-05 | 2.00E-05 | 2.00E-05 | 1.10E-05 | 9.90E-07 | 1.43E-05 | 8.89E-05 | 8.89E-05 | 4.40E-06 |
| 175 | 258623.2 | 4085510.19 | 1.24E-05 | 1.79E-04 | 1.32E-04 | 1.32E-04 | 7.34E-05 | 1.88E-06 | 2.72E-06 | 2.06E-05 | 2.06E-05 | 1.13E-05 | 1.02E-06 | 1.47E-05 | 9.15E-06 | 9.15E-06 | 4.53E-06 |
| 176 | 258601.69 | 4085520.14 | 1.27E-05 | 1.84E-04 | 1.36E-04 | 1.36E-04 | 7.57E-06 | 1.93E-06 | 2.81E-05 | 2.12E-05 | 2.12E-05 | 1.17E-05 | 1.05E-06 | 1.52E-05 | 9.44E-05 | 9.44E-06 | 4.67E-06 |
| 172 | 258580.18 | 4085530.08 | 1.31E-05 | 1.90E-04 | 1.40E-04 | 1.40E-04 | 7.81E-05 | 1.99E-05 | 2.89E-05 | 2.19E-05 | 2.19E-05 | 1.20E-05 | 1.08E-05 | 1.57E-05 | 9.73E-06 | 9.73E-06 | 4.82E-06 |
| 178 | 258558.67 | 4085540.03 | 1.35E-05 | 1.96E-04 | 1.44E-04 | 1.44E-04 | 8.05E-05 | 2.05E-06 | 2.98E-05 | 2.25E-05 | 2.25E-05 | 1.24E-05 | 1.12E-06 | 1.61E-05 | 1.00E-05 | 1.00E-05 | 4.96E-06 |
| 179 | 258537.16 | 4085549.98 | 1.39E-05 | 2.01E-04 | 1.48E-04 | 1.48E-04 | 8.26E-06 | 2.11E-06 | 3.06E-05 | 2.31E-05 | 2.31E-05 | 1.27E-05 | 1.15E-06 | 1.66E-05 | 1.03E-05 | 1.03E-05 | 5.10E-06 |
| 180 | 258515.65 | 4085559.93 | 1.42E-05 | 2.06E-04 | 1.51E-04 | 1.51E-04 | 6.45E-05 | 2.15E-06 | 3.13E-05 | 2.37E-05 | 2.37E-05 | 1.30E-05 | 1.17E-06 | 1.69E-05 | 1.05E-05 | 1.05E-05 | 5.21E-06 |
| 181 | 258494.14 | 4085569.88 | 1.45E-05 | 2.30E-04 | 1.55E-04 | 1.55E-04 | 8.62E-05 | 2.20E-06 | 3.20E-05 | 2.41E-05 | 2.41E-05 | 1.33E-05 | 1.20E-06 | 1.73E-05 | 1.07E-05 | 1.07E-05 | 5.32E-05 |
| 182 | 258472.62 | 4085579.83 | 1.48E-05 | 2.14E-04 | 1.58E-04 | 1.58E-04 | 8.81E-05 | 2.25E-06 | 3.266-05 | 2.47E-05 | 2.47E-05 | 1.36E-05 | 1.22E-06 | 1.77E-05 | 1.10E-05 | 1.10E-05 | 5.43E-06 |
| 183 | 258451.12 | 4085589.78 | 1.52E-05 | 2.19E-04 | 1.62E-04 | 1.62E-04 | 9.01E-05 | 2.30E-05 | 3.34E-06 | 2.53E-05 | 2.52E-05 | 1.39E-05 | 1.25E-06 | 1.81E-05 | 1.12E-05 | 1.12E-05 | 5.55E-06 |
| 184 | 258429.6 | 4085599.72 | 1.55E-05 | 2.24E-04 | 1.65E-04 | 1.65E-04 | 9.22E-05 | 2.35E-06 | 3.42E-05 | 2.58E-05 | 2.58E-05 | 1.42E-05 | 1.28E-06 | 1.85E-05 | 1.15E-05 | 1.15E-05 | 5.69E-05 |
| 185 | 258408.09 | 4085609.67 | 1.59E-05 | 2.30E-04 | 1.69E-04 | 1.69E-04 | 9.45E-05 | 2.41E-06 | 3.50E-06 | 2.65E-05 | 2.65E-05 | 1.45E-05 | 1.31E-06 | 1.89E-05 | 1.18E-05 | 1.18E-05 | 5.83E-06 |
| 186 | 258864.25 | 4085105.52 | 1.80E-05 | 2.61E-04 | 1.92E-04 | 1.92E-04 | 1.07E-04 | 2.73E-05 | 3.97E-05 | 3.00E-05 | 3.00E-05 | 1.65E-05 | 1.49E-06 | 2.15E-05 | 1.33E-05 | 1.33E-05 | 6.60E-06 |
| 187 | 258863.52 | 4085080.77 | 1.90E-05 | 2.75E-04 | 2.03E-04 | 2.03E-04 | 1.13E-04 | 2.89E-06 | 4.19E-05 | 3.17E-06 | 3.17E-05 | 1.74E-05 | 1.57E-06 | 2.27E-05 | 1.41E-05 | 1.41E-05 | 8.98E-06 |
| 188 | 258862.8 | 4085056.01 | 2.01E-05 | 2.91E-04 | 2.15E-04 | 2.15E-04 | 1.20E-04 | 3.06E-06 | 4.44E-05 | 3.35E-05 | 3.35E-05 | 1.84E-05 | 1.66E-06 | 2.40E-05 | 1.49E-05 | 1.49E-05 | 7.38E-05 |
| 189 | 258862.08 | 4085031.26 | 2.13E-05 | 3.09E-04 | 2.28E-04 | 2.28E-04 | 1.27E-04 | 3.24E-06 | 4.70E-05 | 3.55E-05 | 3.55E-05 | 1.95E-05 | 1.76E-06 | 2.55E-05 | 1.58E-05 | 1.58E-05 | 7.83E-06 |
| 190 | 258861.36 | 4085006.5 | 2.27E-05 | 3.28E-04 | 2.41E-04 | 2.41E-04 | 1.35E-04 | 3.44E-06 | 4.99E-05 | 3.77E-05 | 3.77E-05 | 2.07E-05 | 1.87E-06 | 2.70E-05 | 1.68E-05 | 1.68E-05 | 8.30E-06 |
| 191 | 258860.63 | 4084981.74 | 2.41E-05 | 3.48E-04 | 2.57E-04 | 2.57E-04 | 1.43E-04 | 3.65E-05 | 5.30E-05 | 4.01E-05 | 4.01E-05 | 2.20E-05 | 1.98E-06 | 2.87E-06 | 1.78E-05 | 1.78E-05 | 8.82E-05 |
| 192 | 258859.91 | 4084956.99 | 2.56E-05 | 3.70E-04 | 2.73E-04 | 2.73E-04 | 1.52E-04 | 3.88E-05 | 5.64E-06 | 4.26E-05 | 4.26E-05 | 2.34E-05 | 2.11E-06 | 3.05E-05 | 1.89E-05 | 1.89E-05 | 9.38E-06 |
| 193 | 258859.19 | 4084932.23 | 2.72E-05 | 3.93E-04 | 2.90E-04 | 2.90E-04 | 1.62E-04 | 4.13E-06 | 5.99E-05 | 4.53E-05 | 4.53E-05 | 2.49E-05 | 2.24E-06 | 3.24E-05 | 2.01E-05 | 2.01E-05 | 9.97E-06 |
| 194 | 258658.47 | 4084907.47 | 2.89E-05 | 4.18E-04 | 3.08E-04 | 3.08E-04 | 1.72E-04 | 4.38E-06 | 6.36E-05 | 4.81E-05 | 4.81E-05 | 2.64E-05 | 2.38E-06 | 3.44E-05 | 2.14E-05 | 2.14E-05 | 1.06E-05 |
| 195 | 258955.72 | 4085125.02 | 1.39E-05 | 2.00E-04 | 1.48E-04 | 1.48E-04 | 6.23E-05 | 2.10E-06 | 3.05E-05 | 2.31E-05 | 2.31E-05 | 1.27E-06 | 1.14E-06 | 1.65E-05 | 1.03E-05 | 1.03E-05 | 5.08E-06 |
| 196 | 258947.34 | 4085147.44 | 1.36E-05 | 1.96E-04 | 1.45E-04 | 1.45E-04 | 8.06E-05 | 2.06E-05 | 2.99E-05 | 2.26E-05 | 2.26E-05 | 1.24E-05 | 1.12E-05 | 1.62E-05 | 1.00E-05 | 1.00E-05 | 4.97E-06 |
| 197 | 258938.91 | 4085169.86 | 1.32E-05 | 1.92E-04 | 1.41E-04 | 1.41E-04 | 7.87E-05 | 2.01E-06 | 2.92E-05 | 2.20E-05 | 2.20E-05 | 1.21E-05 | 1.09E-06 | 1.58E-05 | 9.81E-06 | 9.81E-06 | 4.85E-05 |
| 198 | 258930.48 | 4085192.27 | 1.29E-05 | 1.87E-04 | 1.38E-04 | 1.38E-04 | 7.67E-05 | 1.96E-06 | 2.84E-06 | 2.15E-06 | 2.15E-05 | 1.18E-05 | 1.06E-06 | 1.54E-05 | 9.56E-06 | 9.56E-06 | 4.73E-05 |
| 199 | 258922.05 | 4085214.69 | 1.26E-06 | 1.82E-04 | 1.34E-04 | 1.34E-04 | 7.46E-06 | 1.91E-06 | 2.77E-05 | 2.09E-05 | 2.09E-05 | 1.15E-05 | 1.04E-06 | 1.50E-05 | 9.30E-06 | 9.30E-06 | 4.60E-06 |
| 200 | 258913.62 | 4085237.1 | 1.22E-05 | 1.77E-04 | 1.30E-04 | 1.30E-04 | 7.26E-05 | 1.85E-06 | 2.69E-05 | 2.03E-06 | 2.03E-05 | 1.12E-05 | 1.01E-06 | 1.46E-05 | 9.04E-06 | 9.04E-06 | 4.47E-06 |
| 201 | 258905.19 | 4085259.52 | 1.19E-05 | 1.72E-04 | 1.26E-04 | 1.26E-04 | 7.05E-05 | 1.80E-06 | 2.61E-05 | 1.97E-05 | 1.97E-05 | 1.09E-05 | 9.78E-07 | 1.41E-05 | 8.79E-06 | 8.79E-06 | 4.35E-06 |
| 202 | 258896.76 | 4085281.94 | 1.15E-05 | 1.66E-04 | 1.23E-04 | 1.23E-04 | 6.83E-05 | 1.75E-06 | 2.53E-05 | 1.91E-05 | 1.91E-05 | 1.05E-05 | 9.48E-07 | 1.37E-05 | 8.52E-06 | 8.52E-06 | 4.22E-06 |
| 203 | 258888.32 | 4085304.35 | 1.11E-05 | 1.61E-04 | 1.19E-04 | 1.19E-04 | 6.62E-06 | 1.69E-06 | 2.45E-05 | 1.85E-05 | 1.85E-05 | 1.02E-05 | 9.18E-07 | 1.33E-05 | 8.25E-06 | 8.25E-06 | 4.08E-06 |
| 204 | 258879.89 | 4085326.77 | 1.08E-05 | 1.57E-04 | 1.16E-04 | 1.16E-04 | 6.44E-05 | 1.65E-06 | 2.39E-05 | 1.80E-05 | 1.80E-05 | 9.92E-06 | 8.94E-07 | 1.29E-05 | 8.03E-06 | 8.03E-06 | 3.97E-06 |
| 205 | 258871.46 | 4085349.18 | 1.05E-05 | 1.53E-04 | 1.12E-04 | 1.12E-04 | 8.27E-05 | 1.60E-06 | 2.32E-05 | 1.76E-05 | 1.76E-05 | 9.65E-06 | 8.69E-07 | 1.26E-05 | 7.81E-06 | 7.81E-06 | 3.87E-06 |
| 206 | 258863.03 | 4085371.6 | 1.03E-05 | 1.48E-04 | 1.09E-04 | 1.09E-04 | 6.10E-05 | 1.56E-06 | 2.26E-06 | 1.71E-06 | 1.71E-06 | 9.38E-06 | 8.45E-07 | 1.22E-06 | 7.60E-06 | 7.60E-05 | 3.76E-05 |
| 207 | 258854.6 | 4085394.02 | 9.97E-06 | 1.44E-04 | 1.06E-04 | 1.06E-04 | 5.93E-05 | 1.51E-05 | 2.20E-05 | 1.66E-05 | 1.66E-05 | 9.12E-06 | 6.22E-07 | 1.19E-05 | 7.38E-05 | 7.38E-06 | 3.65E-06 |
| 208 | 258846.17 | 4085416.43 | 9.69E-06 | 1.40E-04 | 1.03E-04 | 1.03E-04 | 5.76E-05 | 1.47E-06 | 2.14E-06 | 1.61E-05 | 1.61E-05 | 8.87E-06 | 7.99E-07 | 1.16E-05 | 7.18E-06 | 7.18E-06 | 3.55E-06 |
| 209 | 258837.74 | 4085438.85 | 9.43E-06 | 1.36E-04 | 1.00E-04 | 1.00E-04 | 5.60E-05 | 1.43E-06 | 2.08E-05 | 1.57E-05 | 1.57E-05 | 8.62E-06 | 7.77E-07 | 1.12E-05 | 6.98E-06 | 6.98E-06 | 3.48E-06 |
| 210 | 258829.31 | 4085461.26 | 9.17E-06 | 1.33E-04 | 9.78E-05 | 9.78E-05 | 5.45E-05 | 1.39E-06 | 2.02E-05 | 1.53E-05 | 1.53E-05 | 6.39E-05 | 7.56E-07 | 1.09E-05 | 6.79E-06 | 6.79E-06 | 3.36E-06 |
| 211 | 258820.88 | 4085483.68 | 8.93E-06 | 1.29E-04 | 9.52E-05 | 9.52E-05 | 5.31E-05 | 1.36E-06 | 1.97E-05 | 1.49E-05 | 1.49E-05 | 8.18E-06 | 7.36E-07 | 1.07E-05 | 6.62E-06 | 6.62E-06 | 3.27E-06 |
| 212 | 258812.44 | 4085506.1 | 8.71E-06 | 1.26E-04 | 9.29E-06 | 9.29E-05 | 5.18E-05 | 1.32E-05 | 1.92E-05 | 1.45E-05 | 1.45E-05 | 7.97E-06 | 7.18E-07 | 1.04E-05 | 6.45E-06 | 6.45E-06 | 3.19E-06 |
| 213 | 258782.28 | 4085538.57 | 8.66E-05 | 1.25E-04 | 9.24E-05 | 9.24E-05 | 5.15E-05 | 1.31E-06 | 1.91E-06 | 1.44E-05 | 1.44E-05 | 7.93E-06 | 7.14E-07 | 1.03E-05 | 6.42E-06 | 6.42E-06 | 3.18E-06 |
| 214 | 258760.54 | 4085548.62 | 6.83E-06 | 1.28E-04 | 9.41E-05 | 9.41E-06 | 5.25E-05 | 1.34E-06 | 1.95E-05 | 1.47E-06 | 1.47E-05 | 8.08E-06 | 7.28E-07 | 1.05E-06 | 6.54E-06 | 6.54E-06 | 3.24E-06 |
| 215 | 258738.8 | 4085558.67 | 9.01E-06 | 1.30E-04 | 9.60E-06 | 9.60E-06 | 5.35E-05 | 1.37E-06 | 1.98E-05 | 1.50E-05 | 1.50E-05 | 8.24E-06 | 7.43E-07 | 1.07E-05 | 6.67E-

| | | | UnMitigated | | 2827 | | | T2 | | | | | T213 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 2829 | | 256582.52 | 4085895.92 | | | | | | | | | | | |
| | | | 1.35E-05 | 1.95E-04 | 1.44E-04 | 1.44E-04 | 8.01E-05 | 2.05E-06 | 2.97E-05 | 2.24E-05 | 2.24E-05 | 1.23E-05 | 1.11E-06 | 1.61E-05 | 9.98E-06 | 9.98E-06 | 4.94E-06 |
| | | | Yr 1 | Yr 2 | Yr 3 | Yr 4 | Yr 5 | Yr 1 | Yr 2 | Yr 3 | Yr 4 | Yr 5 | Yr 1 | Yr 2 | Yr 3 | Yr 4 | Yr 5 |
| 1 | 258389.45 | 4085119.38 | 2.39E-04 | 3.46E-03 | 2.55E-03 | 2.55E-03 | 1.42E-03 | 3.63E-05 | 5.26E-04 | 3.98E-04 | 3.98E-04 | 2.19E-04 | 1.97E-05 | 2.85E-04 | 1.77E-04 | 1.77E-04 | 6.76E-06 |
| 2 | 258388.73 | 4085094.62 | 3.81E-04 | 5.51E-03 | 4.06E-03 | 4.08E-03 | 2.26E-03 | 5.78E-05 | 6.39E-04 | 6.34E-04 | 6.34E-04 | 3.48E-04 | 3.14E-06 | 4.54E-04 | 2.82E-04 | 2.82E-04 | 1.40E-04 |
| 3 | 258388 | 4085069.87 | 5.28E-04 | 7.63E-03 | 5.63E-03 | 5.63E-03 | 3.14E-03 | 8.01E-05 | 1.16E-03 | 8.79E-04 | 6.79E-04 | 4.83E-04 | 4.35E-06 | 6.29E-04 | 3.91E-04 | 3.91E-04 | 1.93E-04 |
| 4 | 258387.28 | 4085045.11 | 6.21E-04 | 6.98E-03 | 6.82E-03 | 6.82E-03 | 3.69E-03 | 9.42E-06 | 1.37E-03 | 1.03E-03 | 1.03E-03 | 5.68E-04 | 5.12E-05 | 7.40E-04 | 4.60E-04 | 4.60E-04 | 2.28E-04 |
| 5 | 258386.56 | 4085020.38 | 6.74E-04 | 9.75E-03 | 7.19E-03 | 7.19E-03 | 4.01E-03 | 1.02E-04 | 1.49E-03 | 1.12E-03 | 1.12E-03 | 6.17E-04 | 5.56E-05 | 6.04E-04 | 4.99E-04 | 4.99E-04 | 2.47E-04 |
| 6 | 258385.84 | 4084995.6 | 7.00E-04 | 1.01E-02 | 7.46E-03 | 7.46E-03 | 4.16E-03 | 1.06E-04 | 1.54E-03 | 1.17E-03 | 1.17E-03 | 6.41E-04 | 5.77E-05 | 6.35E-04 | 5.18E-04 | 5.18E-04 | 2.57E-04 |
| 7 | 258385.11 | 4084970.84 | 7.00E-04 | 1.01E-02 | 7.46E-03 | 7.46E-03 | 4.16E-03 | 1.06E-04 | 1.54E-03 | 1.17E-03 | 1.17E-03 | 6.41E-04 | 5.77E-05 | 8.35E-04 | 5.19E-04 | 5.19E-04 | 2.57E-04 |
| 8 | 258384.39 | 4084946.09 | 6.71E-04 | 9.71E-03 | 7.16E-03 | 7.16E-03 | 3.99E-03 | 1.02E-04 | 1.48E-03 | 1.12E-03 | 1.12E-03 | 6.14E-04 | 5.53E-05 | 8.00E-04 | 4.97E-04 | 4.97E-04 | 2.46E-04 |
| 9 | 258383.67 | 4084921.33 | 5.79E-04 | 6.37E-03 | 6.17E-03 | 6.17E-03 | 3.44E-03 | 8.79E-05 | 1.28E-03 | 9.64E-04 | 9.64E-04 | 5.30E-04 | 4.77E-05 | 6.90E-04 | 4.29E-04 | 4.29E-04 | 2.12E-04 |
| 10 | 258407.76 | 4085136.4 | 1.47E-04 | 2.13E-03 | 1.57E-03 | 1.57E-03 | 8.74E-04 | 2.23E-06 | 3.24E-04 | 2.45E-04 | 2.45E-04 | 1.35E-04 | 1.21E-05 | 1.75E-04 | 1.09E-04 | 1.09E-04 | 5.39E-05 |
| 11 | 258383.88 | 4085162.1 | 1.42E-04 | 2.05E-03 | 1.51E-03 | 1.51E-03 | 6.43E-04 | 2.15E-05 | 3.13E-04 | 2.36E-04 | 2.36E-04 | 1.30E-04 | 1.17E-05 | 1.69E-04 | 1.05E-04 | 1.05E-04 | 5.20E-05 |
| 12 | 258413.72 | 4085093.9 | 2.34E-04 | 3.39E-03 | 2.50E-03 | 2.50E-03 | 1.39E-03 | 3.56E-05 | 5.16E-04 | 3.90E-04 | 3.90E-04 | 2.14E-04 | 1.93E-05 | 2.79E-04 | 1.74E-04 | 1.74E-04 | 6.59E-05 |
| 13 | 258412.99 | 4085069.14 | 3.15E-04 | 4.55E-03 | 3.35E-03 | 3.35E-03 | 1.87E-03 | 4.78E-05 | 6.93E-04 | 5.24E-04 | 5.24E-04 | 2.88E-04 | 2.59E-05 | 3.75E-04 | 2.33E-04 | 2.33E-04 | 1.15E-04 |
| 14 | 258412.27 | 4085044.38 | 3.83E-04 | 5.54E-03 | 4.09E-03 | 4.09E-03 | 2.28E-03 | 5.82E-05 | 8.45E-04 | 6.38E-04 | 6.38E-04 | 3.51E-04 | 3.16E-05 | 4.57E-04 | 2.84E-04 | 2.84E-04 | 1.40E-04 |
| 15 | 258411.55 | 4085019.63 | 4.32E-04 | 6.25E-03 | 4.60E-03 | 4.60E-03 | 2.57E-03 | 6.55E-06 | 9.51E-04 | 7.19E-04 | 7.19E-04 | 3.95E-04 | 3.56E-05 | 5.15E-04 | 3.20E-04 | 3.20E-04 | 1.58E-04 |
| 16 | 258410.63 | 4084994.87 | 4.61E-04 | 6.67E-03 | 4.92E-03 | 4.92E-03 | 2.74E-03 | 7.00E-05 | 1.02E-03 | 7.67E-04 | 7.67E-04 | 4.22E-04 | 3.80E-05 | 5.50E-04 | 3.41E-04 | 3.41E-04 | 1.69E-04 |
| 17 | 258410.1 | 4084970.11 | 4.77E-04 | 6.83E-03 | 5.03E-03 | 5.03E-03 | 2.81E-03 | 7.17E-05 | 1.04E-03 | 7.86E-04 | 7.86E-04 | 4.32E-04 | 3.89E-05 | 5.63E-04 | 3.50E-04 | 3.50E-04 | 1.73E-04 |
| 16 | 258409.38 | 4084945.36 | 4.63E-04 | 6.70E-03 | 4.93E-03 | 4.93E-03 | 2.75E-03 | 7.03E-05 | 1.02E-03 | 7.71E-04 | 7.71E-04 | 4.24E-04 | 3.82E-06 | 5.52E-04 | 3.43E-04 | 3.43E-04 | 1.70E-04 |
| 19 | 258408.66 | 4084920.6 | 4.30E-04 | 6.21E-03 | 4.58E-03 | 4.58E-03 | 2.55E-03 | 6.52E-05 | 9.46E-04 | 7.15E-04 | 7.15E-04 | 3.93E-04 | 3.54E-05 | 5.12E-04 | 3.18E-04 | 3.18E-04 | 1.57E-04 |
| 20 | 258432.75 | 4085135.67 | 1.16E-04 | 1.67E-03 | 1.23E-03 | 1.23E-03 | 6.88E-04 | 1.76E-05 | 2.55E-04 | 1.93E-04 | 1.93E-04 | 1.06E-04 | 9.54E-05 | 1.38E-04 | 8.57E-05 | 8.57E-05 | 4.24E-05 |
| 21 | 258402.2 | 4085179.12 | 1.02E-04 | 1.48E-03 | 1.09E-03 | 1.09E-03 | 6.06E-04 | 1.55E-05 | 2.25E-04 | 1.70E-04 | 1.70E-04 | 9.34E-05 | 8.41E-05 | 1.22E-04 | 7.56E-05 | 7.56E-05 | 3.74E-05 |
| 22 | 258438.71 | 4085093.17 | 1.66E-04 | 2.40E-03 | 1.77E-03 | 1.77E-03 | 9.88E-04 | 2.52E-05 | 3.66E-04 | 2.77E-04 | 2.77E-04 | 1.52E-04 | 1.37E-05 | 1.98E-04 | 1.23E-04 | 1.23E-04 | 6.09E-05 |
| 23 | 258437.98 | 4085068.41 | 2.14E-04 | 3.09E-03 | 2.28E-03 | 2.28E-03 | 1.27E-03 | 3.24E-06 | 4.70E-04 | 3.55E-04 | 3.55E-04 | 1.95E-04 | 1.76E-05 | 2.55E-04 | 1.58E-04 | 1.58E-04 | 7.63E-06 |
| 24 | 258437.26 | 4085043.65 | 2.61E-04 | 3.77E-03 | 2.78E-03 | 2.78E-03 | 1.55E-03 | 3.96E-05 | 5.74E-04 | 4.34E-04 | 4.34E-04 | 2.39E-04 | 2.15E-05 | 3.11E-04 | 1.95E-04 | 1.93E-04 | 9.56E-05 |
| 25 | 258436.54 | 4085018.9 | 3.00E-04 | 4.34E-03 | 3.20E-03 | 3.20E-03 | 1.78E-03 | 4.55E-05 | 6.61E-04 | 4.99E-04 | 4.99E-04 | 2.74E-04 | 2.47E-05 | 3.57E-04 | 2.22E-04 | 2.22E-04 | 1.10E-04 |
| 26 | 258435.62 | 4084994.14 | 3.28E-04 | 4.74E-03 | 3.49E-03 | 3.49E-03 | 1.95E-03 | 4.97E-05 | 7.22E-04 | 5.45E-04 | 5.45E-04 | 3.00E-04 | 2.70E-05 | 3.91E-04 | 2.43E-04 | 2.43E-04 | 1.20E-04 |
| 27 | 258435.09 | 4084969.38 | 3.43E-04 | 4.96E-03 | 3.66E-03 | 3.66E-03 | 2.04E-03 | 5.21E-05 | 7.56E-04 | 5.71E-04 | 5.71E-04 | 3.14E-04 | 2.83E-05 | 4.09E-04 | 2.54E-04 | 2.54E-04 | 1.26E-04 |
| 28 | 258434.37 | 4084944.63 | 3.45E-04 | 4.99E-03 | 3.68E-03 | 3.68E-03 | 2.05E-03 | 5.23E-05 | 7.60E-04 | 5.74E-04 | 5.74E-04 | 3.16E-04 | 2.84E-05 | 4.11E-04 | 2.55E-04 | 2.55E-04 | 1.26E-04 |
| 29 | 258433.65 | 4084919.87 | 3.33E-04 | 4.82E-03 | 3.55E-03 | 3.55E-03 | 1.98E-03 | 5.06E-05 | 7.34E-04 | 5.55E-04 | 5.55E-04 | 3.05E-04 | 2.75E-05 | 3.97E-04 | 2.47E-04 | 2.47E-04 | 1.22E-04 |
| 30 | 258457.74 | 4085134.94 | 9.45E-05 | 1.37E-03 | 1.01E-03 | 1.01E-03 | 5.62E-04 | 1.43E-05 | 2.08E-04 | 1.57E-04 | 1.57E-04 | 6.65E-05 | 7.79E-06 | 1.13E-04 | 7.00E-05 | 7.00E-05 | 3.46E-05 |
| 31 | 258444.39 | 4085170.43 | 7.99E-05 | 1.16E-03 | 8.52E-04 | 8.52E-04 | 4.75E-04 | 1.21E-05 | 1.76E-04 | 1.33E-04 | 1.33E-04 | 7.31E-05 | 6.59E-06 | 9.53E-05 | 5.92E-05 | 5.92E-05 | 2.93E-05 |
| 32 | 258420.51 | 4085196.14 | 7.84E-05 | 1.13E-03 | 8.36E-04 | 8.36E-04 | 4.66E-04 | 1.19E-05 | 1.73E-04 | 1.31E-04 | 1.31E-04 | 7.17E-05 | 6.46E-05 | 9.35E-05 | 5.81E-05 | 5.81E-05 | 2.87E-05 |
| 33 | 258388.09 | 4085212.05 | 6.81E-05 | 1.27E-03 | 9.39E-04 | 9.39E-04 | 5.23E-04 | 1.34E-05 | 1.94E-04 | 1.47E-04 | 1.47E-04 | 6.06E-06 | 7.26E-06 | 1.05E-04 | 6.52E-05 | 6.52E-05 | 3.23E-05 |
| 34 | 258463.69 | 4085092.44 | 1.27E-04 | 1.84E-03 | 1.36E-03 | 1.36E-03 | 7.57E-04 | 1.93E-05 | 2.81E-04 | 2.12E-04 | 2.12E-04 | 1.17E-04 | 1.05E-05 | 1.52E-04 | 9.43E-05 | 9.43E-05 | 4.67E-05 |
| 35 | 258462.97 | 4085067.68 | 1.58E-04 | 2.28E-03 | 1.68E-03 | 1.68E-03 | 9.37E-04 | 2.39E-05 | 3.47E-04 | 2.62E-04 | 2.62E-04 | 1.44E-04 | 1.30E-05 | 1.88E-04 | 1.17E-04 | 1.17E-04 | 5.78E-05 |
| 36 | 258462.25 | 4085042.92 | 1.90E-04 | 2.75E-03 | 2.03E-03 | 2.03E-03 | 1.13E-03 | 2.89E-05 | 4.19E-04 | 3.16E-04 | 3.16E-04 | 1.74E-04 | 1.57E-05 | 2.27E-04 | 1.41E-04 | 1.41E-04 | 6.97E-05 |
| 37 | 258461.53 | 4085018.17 | 2.20E-04 | 3.18E-03 | 2.35E-03 | 2.35E-03 | 1.31E-03 | 3.34E-05 | 4.65E-04 | 3.66E-04 | 3.66E-04 | 2.01E-04 | 1.81E-05 | 2.62E-04 | 1.63E-04 | 1.63E-04 | 8.07E-05 |
| 38 | 258460.8 | 4084993.41 | 2.44E-04 | 3.53E-03 | 2.60E-03 | 2.60E-03 | 1.45E-03 | 3.71E-05 | 5.38E-04 | 4.06E-04 | 4.06E-04 | 2.25E-04 | 2.01E-05 | 2.91E-04 | 1.81E-04 | 1.81E-04 | 6.95E-05 |
| 39 | 258460.08 | 4084968.66 | 2.60E-04 | 3.77E-03 | 2.78E-03 | 2.78E-03 | 1.55E-03 | 3.95E-06 | 5.74E-04 | 4.33E-04 | 4.33E-04 | 2.38E-04 | 2.15E-06 | 3.10E-04 | 1.93E-04 | 1.93E-04 | 9.54E-05 |
| 40 | 258459.36 | 4084943.9 | 2.67E-04 | 3.87E-03 | 2.85E-03 | 2.85E-03 | 1.59E-03 | 4.06E-06 | 5.89E-04 | 4.45E-04 | 4.45E-04 | 2.45E-04 | 2.20E-05 | 3.19E-04 | 1.98E-04 | 1.98E-04 | 9.80E-05 |
| 41 | 258458.64 | 4084919.14 | 2.64E-04 | 3.82E-03 | 2.81E-03 | 2.81E-03 | 1.57E-03 | 4.01E-06 | 5.82E-04 | 4.39E-04 | 4.39E-04 | 2.42E-04 | 2.18E-05 | 3.15E-04 | 1.96E-04 | 1.96E-04 | 9.68E-05 |
| 42 | 258506.39 | 4085137.03 | 6.69E-05 | 9.67E-04 | 7.13E-04 | 7.13E-04 | 3.97E-04 | 1.02E-05 | 1.47E-04 | 1.11E-04 | 1.11E-04 | 6.12E-05 | 5.51E-06 | 7.97E-05 | 4.95E-05 | 4.95E-05 | 2.45E-05 |
| 43 | 258498.38 | 4085158.32 | 6.18E-05 | 8.94E-04 | 6.59E-04 | 6.59E-04 | 3.67E-04 | 9.38E-06 | 1.36E-04 | 1.03E-04 | 1.03E-04 | 5.65E-05 | 5.09E-06 | 7.37E-05 | 4.58E-05 | 4.58E-05 | 2.26E-06 |
| 44 | 258490.37 | 4085179.62 | 5.71E-05 | 6.26E-04 | 6.09E-04 | 6.09E-04 | 3.40E-04 | 6.67E-06 | 1.26E-04 | 9.51E-05 | 9.51E-05 | 5.23E-05 | 4.71E-06 | 6.81E-05 | 4.23E-05 | 4.23E-05 | 2.09E-05 |
| 45 | 258482.36 | 4085200.92 | 5.30E-05 | 7.66E-04 | 5.65E-04 | 5.65E-04 | 3.15E-04 | 6.04E-05 | 1.17E-04 | 8.82E-05 | 8.82E-05 | 4.85E-05 | 4.37E-06 | 6.32E-05 | 3.92E-05 | 3.92E-05 | 1.84E-05 |
| 46 | 258453.7 | 4085231.76 | 5.72E-05 | 7.55E-04 | 5.56E-04 | 5.56E-04 | 3.10E-04 | 7.92E-06 | 1.15E-04 | 8.69E-05 | 6.69E-05 | 4.78E-05 | 4.30E-06 | 6.22E-05 | 3.87E-05 | 3.87E-05 | 1.91E-05 |
| 47 | 258433.05 | 4085241.31 | 5.52E-05 | 7.99E-04 | 5.89E-04 | 5.69E-04 | 3.28E-04 | 8.38E-06 | 1.22E-04 | 9.19E-05 | 9.19E-05 | 5.05E-05 | 4.55E-06 | 6.59E-05 | 4.09E-05 | 4.09E-05 | 2.02E-05 |
| 48 | 258412.4 | 4085250.86 | 5.83E-05 | 8.44E-04 | 6.22E-04 | 6.22E-04 | 3.47E-04 | 6.85E-06 | 1.29E-04 | 9.71E-05 | 9.71E-05 | 5.34E-06 | 4.81E-06 | 6.96E-05 | 4.32E-05 | 4.32E-05 | 2.14E-05 |
| 49 | 258391.75 | 4085260.41 | 6.15E-05 | 8.89E-04 | 6.55E-04 | 6.55E-04 | 3.85E-04 | 9.33E-05 | 1.35E-04 | 1.02E-04 | 1.02E-04 | 5.63E-05 | 5.07E-05 | 7.33E-05 | 4.55E-06 | 4.55E-05 | 2.23E-05 |
| 50 | 258514.4 | 4085115.73 | 7.23E-05 | 1.05E-03 | 7.71E-04 | 7.71E-04 | 4.30E-04 | 1.10E-05 | 1.59E-04 | 1.20E-04 | 1.20E-04 | 6.62E-05 | 5.96E-06 | 6.62E-05 | 5.35E-05 | 5.35E-05 | 2.65E-05 |
| 51 | 258513.67 | 4085090.98 | 8.46E-05 | 1.22E-03 | 9.02E-04 | 9.02E-04 | 5.03E-04 | 1.28E-05 | 1.86E-04 | 1.41E-04 | 1.41E-04 | 7.75E-05 | 6.98E-06 | 1.01E-04 | 6.27E-05 | 6.27E-05 | 3.10E-05 |
| 52 | 258512.95 | 4085066.22 | 9.95E-05 | 1.44E-03 | 1.06E-03 | 1.06E-03 | 5.91E-04 | 1.51E-05 | 2.19E-04 | 1.66E-04 | 1.66E-04 | 9.10E-05 | 8.20E-06 | 1.19E-04 | 7.37E-05 | 7.37E-05 | 3.65E-05 |
| 53 | 258512.23 | 4085041.47 | 1.16E-04 | 1.68E-03 | 1.24E-03 | 1.24E-03 | 6.90E-04 | 1.78E-05 | 2.56E-04 | 1.93E-04 | 1.93E-04 | 1.06E-04 | 9.57E-06 | 1.38E-04 | 8.60E-05 | 8.60E-05 | 4.26E-05 |
| 54 | 258511.51 | 4085016.71 | 1.33E-04 | 1.93E-03 | 1.42E-03 | 1.42E-03 | 7.92E-04 | 2.02E-05 | 2.94E-04 | 2.22E-04 | 2.22E-04 | 1.22E-04 | 1.10E-05 | 1.59E-04 | 9.87E-05 | 9.87E-05 | 4.89E-06 |
| 55 | 258510.78 | 4084991.95 | 1.49E-04 | 2.16E-03 | 1.59E-03 | 1.59E-03 | 8.87E-04 | 2.27E-05 | 3.29E-04 | 2.49E-04 | 2.49E-04 | 1.37E-04 | 1.23E-05 | 1.78E-04 | 1.11E-04 | 1.11E-04 | 5.47E-05 |
| 56 | 258510.06 | 4084967.2 | 1.63E-04 | 2.35E-03 | 1.73E-03 | 1.73E-03 | 9.66E-04 | 2.47E-05 | 3.58E-04 | 2.71E-04 | 2.71E-04 | 1.49E-04 | 1.34E-05 | 1.94E-04 | 1.20E-04 | 1.20E-04 | 5.96E-05 |
| 57 | 258509.34 | 4084942.44 | 1.77E-04 | 2.49E-03 | 1.83E-03 | 1.63E-03 | 1.02E-03 | 2.61E-05 | 3.79E-04 | 2.86E-04 | 2.86E-04 | 1.57E-04 | 1.42E-05 | 2.05E-04 | 1.27E-04 | 1.27E-04 | 6.31E-05 |
| 58 | 258508.62 | 4084917.68 | 1.77E-04 | 2.56E-03 | 1.89E-03 | 1.89E-03 | 1.05E-03 | 2.68E-05 | 3.90E-04 | 2.94E-04 | 2.94E-04 | 1.62E-04 | 1.46E-06 | 2.11E-04 | 1.31E-04 | 1.31E-04 | 6.48E-05 |
| 59 | 258556.75 | 4085134.56 | 5.12E-05 | 7.41E-04 | 5.46E-04 | 5.46E-04 | 3.05E-04 | 7.78E-06 | 1.13E-04 | 8.53E-05 | 6.53E-05 | 4.69E-05 | 4.22E-05 | 6.11E-05 | 3.80E-05 | 3.80E-05 | 1.88E-05 |
| 60 | 258541.49 | 4085175.12 | 4.54E-05 | 6.56E-04 | 4.84E-04 | 4.64E-04 | 2.70E-04 | 6.68E-05 | 9.99E-05 | 7.55E-05 | 7.55E-05 | 4.15E-05 | 3.74E-06 | 5.41E-05 | 3.36E-05 | 3.36E-05 | 1.66E-05 |
| 61 | 258526.23 | 4085215.68 | 4.01E-06 | 5.80E-04 | 4.28E-04 | 4.28E-04 | 2.38E-04 | 6.09E-05 | 8.84E-05 | 6.68E-06 | 6.68E-05 | 3.67E-05 | 3.31E-05 | 4.78E-05 | 2.97E-05 | 2.97E-05 | 1.47E-05 |
| 82 | 258491.31 | 4085265.34 | 3.74E-06 | 5.41E-04 | 3.99E-04 | 3.99E-04 | 2.22E-04 | 5.68E-05 | 6.24E-06 | 6.23E-05 | 6.23E-05 | 3.42E-05 | 3.08E-05 | 4.46E-05 | 2.77E-05 | 2.77E-05 | 1.37E-05 |
| 63 | 258451.98 | 4085283.53 | 4.10E-06 | 5.93E-04 | 4.37E-04 | 4.37E-04 | 2.44E-04 | 6.22E-06 | 9.03E-06 | 6.82E-05 | 6.82E-05 | 3.75E-05 | 3.38E-06 | 4.89E-05 | 3.04E-05 | 3.04E-05 | 1.50E-05 |
| 64 | 258412.64 | 4085301.72 | 4.46E-05 | 6.45E-04 | 4.76E-04 | 4.76E-04 | 2.65E-04 | 6.77E-06 | 9.83E-05 | 7.43E-05 | 7.43E-05 | 4.08E-05 | 3.68E-06 | 5.32E-05 | 3.30E-05 | 3.30E-05 | 1.64E-06 |
| 65 | 258363.65 | 4085089.52 | 6.16E-05 | 8.91E-04 | 6.57E-04 | 6.57E-04 | 3.66E-04 | 9.35E-06 | 1.36E-04 | 1.03E-04 | 1.03E-04 | 5.64E-05 | 5.08E-06 | 7.34E-05 | 4.56E-05 | 4.56E-05 | 2.26E-06 |
| 66 | 258562.93 | 4085064.76 | 7.01E-05 | 1.01E-03 | 7.47E-04 | 7.47E-04 | 4.17E-04 | 1.06E-05 | 1.54E-04 | 1.17E-04 | 1.17E-04 | 6.41E-05 | 5.78E-06 | 6.36E-05 | 5.19E-05 | 5.19E-05 | 2.57E-05 |
| 67 | 258562.21 | 4085040.01 | 7.97E-05 | 1.15E-03 | 8.49E-04 | 8.49E-04 | 4.73E-04 | 1.21E-05 | 1.76E-04 | 1.33E-04 | 1.33E-04 | 7.29E-05 | 6.57E-06 | 9.50E-05 | 5.90E-05 | 5.90E-05 | 2.92E-05 |
| 68 | 258561.48 | 4085015.25 | 6.99E-05 | 1.30E-03 | 9.59E-04 | 9.59E-04 | 5.34E-04 | 1.36E-05 | 1.98E-04 | 1.50E-04 | 1.50E-04 | 6.23E-05 | 7.41E-06 | 1.07E-04 | 6.66E-05 | 6.68E-05 | 3.30E-05 |
| 69 | 258560.76 | 4084990.49 | 1.00E-04 | 1.45E-03 | 1.07E-03 | 1.07E-03 | 5.96E-04 | 1.52E-05 | 2.21E-04 | 1.67E-04 | 1.67E-04 | 9.17E-05 | 8.26E-05 | 1.19E-04 | 7.42E-06 | 7.42E-05 | 3.67E-06 |
| 70 | 258560.04 | 4084965.74 | 1.10E-04 | 1.59E-03 | 1.17E-03 | 1.17E-03 | 6.53E-04 | 1.67E-05 | 2.42E-04 | 1.83E-04 | 1.83E-04 | 1.01E-04 | 9.05E-06 | 1.31E-04 | 8.13E-05 | 8.13E-05 | 4.03E-05 |
| 71 | 258559.32 | 4084940.98 | 1.18E-04 | 1.71E-03 | 1.26E-03 | 1.26E-03 | 7.01E-04 | 1.79E-05 | 2.60E-04 | 1.96E-04 | 1.96E-04 | 1.08E-04 | 9.73E-06 | 1.41E-04 | 8.74E-05 | 8.74E-05 | 4.33E-05 |
| 72 | 258558.59 | 4084916.23 | 1.24E-04 | 1.80E-03 | 1.32E-03 | 1.32E-03 | 7.38E-04 | 1.88E-05 | 2.73E-04 | 2.07E-04 | 2.07E-04 | 1.14E-04 | 1.02E-05 | 1.48E-04 | 9.19E-05 | 9.19E-05 | 4.55E-05 |
| 73 | 258606.01 | 4085135 | 4.05E-05 | 5.85E-04 | 4.31E-04 | 4.31E-04 | 2.40E-04 | 6.14E-06 | 6.91E-05 | 6.73E-05 | 6.73E-06 | 3.70E-05 | 3.35E-06 | 4.82E-05 | 3.00E-06 | 3.00E-06 | 1.48E-05 |
| 74 | 258597.67 | 4085137.18 | 3.83E-05 | 5.54E-04 | 4.08E-04 | 4.08E-04 | 2.28E-04 | 5.81E-06 | 6.44E-05 | 6.38E-05 | 6.38E-05 | 3.51E-05 | 3.16E-05 | 4.57E-05 | 2.84E-05 | 2.84E-05 | 1.40E-05 |
| 75 | 258589.32 | 4085179.36 | 3.62E-05 | 5.24E-04 | 3.86E-04 | 3.86E-04 | 2.15E-04 | 5.49E-06 | 7.98E-05 | 6.03E-05 | 6.03E-05 | 3.31E-05 | 2.98E-06 | 4.32E-05 | 2.68E-05 | 2.68E-05 | 1.33E-05 |
| 76 | 258580.98 | 4085201.55 | 3.42E-05 | 4.94E-04 | 3.64E-04 | 3.64E-04 | 2.03E-04 | 5.18E-06 | 7.53E-05 | 5.69E-05 | 5.69E-05 | 3.13E-05 | 2.82E-06 | 4.07E-05 | 2.53E-05 | 2.53E-05 | 1.23E-06 |
| 77 | 258572.64 | 4085223.73 | 3.22E-05 | 4.66E-04 | 3.44E-04 | 3.44E-04 | 1.92E-04 | 4.89E-06 | 7.10E-05 | 5.37E-05 | 5.37E-05 | 2.95E-05 | 2.66E-06 | 3.84E-05 | 2.39E-05 | 2.39E-05 | 1.18E-05 |
| 78 | 258564.29 | 4085245.91 | 3.05E-05 | 4.40E-04 | 3.25E-04 | 3.25E-04 | 1.61E-04 | 4.62E-06 | 6.71E-05 | 5.07E-05 | 5.07E-05 | 2.79E-05 | 2.51E-06 | 3.63E-05 | 2.26E-05 | 2.26E-05 | 1.12E-05 |
| 79 | 258555.95 | 4085268.1 | 2.88E-05 | 4.17E-04 | 3.07E-04 | 3.07E-04 | 1.71E-04 | 4.38E-06 | 6.35E-05 | 4.80E-05 | 4.80E-05 | 2.64E-05 | 2.38E-06 | 3.44E-05 | 2.13E-05 | 2.13E-05 | 1.06E-05 |
| 80 | 258526.1 | 4085300.23 | 2.85E-05 | 4.12E-04 | 3.04E-04 | 3.04E-04 | 1.69E-04 | 4.35E-06 | 6.28E-05 | 4.75E-05 | 4.75E-05 | 2.81E-05 | 2.35E-06 | 3.40E-05 | 2.11E-05 | 2.11E-05 | 1.05E-06 |
| 81 | 258504.59 | 4085310.17 | 2.98E-06 | 4.31E-04 | 3.18E-04 | 3.18E-04 | 1.77E-04 | 4.52E-06 | 6.56E-05 | 4.96E-05 | 4.96E-05 | 2.73E-05 | 2.46E-06 | 3.55E-03 | 2.21E-05 | 2.21E-05 | 1.09E-05 |
| 82 | 258483.08 | 4085320.12 | 3.11E-05 | 4.50E-04 | 3.32E-04 | 3.32E-04 | 1.85E-04 | 4.73E-06 | 6.68E-05 | 5.18E-05 | 5.18E-05 | 2.85E-05 | 2.57E-05 | 3.71E-05 | 2.31E-05 | 2.31E-05 | 1.14E-06 |
| 83 | 258461.56 | 4085330.07 | 3.23E-06 | 4.70E-04 | 3.46E-04 | 3.46E-04 | 1.93E-04 | 4.93E-06 | 7.16E-05 | 5.41E-05 | 5.41E-05 | 2.97E-05 | 2.68E-06 | 3.87E-05 | 2.41E-05 | 2.41E-05 | 1.19E-05 |
| 84 | 258440.05 | 4085340.02 | 3.38E-05 | 4.89E-04 | 3.60E-04 | 3.60E-04 | 2.01E-04 | 5.13E-06 | 7.45E-05 | 5.63E-05 | 5.63E-05 | 3.09E-05 | 2.79E-06 | 4.03E-05 | 2.50E-05 | 2.50E-05 | 1.24E-05 |
| 85 | 258418.54 | 4085349.97 | 3.51E-05 | 5.08E-04 | 3.74E-04 | 3.74E-04 | 2.09E-04 | 5.33E-06 | 7.74E-05 | 5.84E-05 | 5.84E-05 | 3.21E-05 | 2.89E-06 | 4.19E-05 | 2.60E-05 | 2.60E-05 | 1.29E-05 |
| 86 | 258397.03 | 4085359.92 | 3.65E-05 | 5.28E-04 | 3.89E-04 | 3.89E-04 | 2.17E-04 | 5.54E-06 | 8.04E-05 | 6.07E-05 | 6.07E-05 | 3.34E-05 | 3.01E-06 | 4.35E-05 | 2.70E-05 | 2.70E-05 | 1.34E-05 |
| 87 | 258614.35 | 4085112.82 | 4.26E-05 | 6.16E-04 | 4.54E-04 | 4.54E-04 | 2.53E-04 | 6.47E-06 | 9.39E-05 | 7.09E-05 | 7.09E-05 | 3.90E-05 | 3.51E-06 | 5.08E-05 | 3.15E-05 | 3.15E-05 | 1.56E-06 |
| 88 | 258613.63 | 4085068.06 | 4.73E-05 | 6.84E-04 | 5.04E-04 | 5.04E-04 | 2.81E-04 | 7.18E-06 | 1.04E-04 | 7.87E-05 | 7.87E-05 | 4.33E-05 | 3.90E-06 | 5.64E-05 | 3.50E-05 | 3.50E-05 | 1.73E-05 |
| 89 | 258612.91 | 4085063.3 | 5.27E-05 | 7.62E-04 | 5.61E-04 | 5.61E-04 | 3.13E-04 | 7.99E-06 | 1.16E-04 | 8.76E-05 | 6.76E-05 | 4.82E-05 | 4.34E-06 | 6.28E-05 | 3.90E-05 | 3.90E-05 | 1.93E-05 |
| 90 | 258612.19 | 4085038.55 | 5.87E-05 | 8.48E-04 | 6.25E-04 | 6.23E-04 | 3.49E-04 | 8.90E-06 | 1.29E-04 | 9.76E-05 | 9.76E-05 | 5.37E-05 | 4.83E-06 | 6.99E-05 | 4.34E-05 | 4.34E-05 | 2.15E-05 |
| 91 | 258611.46 | 4085013.79 | 6.52E-05 | 9.43E-04 | 6.95E-04 | 6.95E-04 | 3.87E-04 | 9.89E-06 | 1.44E-04 | 1.08E-04 | 1.08E-04 | 5.96E-05 | 5.37E-06 | 7.77E-05 | 4.63E-05 | 4.83E-05 | 2.39E-05 |
| 92 | 258610.74 | 4084989.04 | 7.20E-06 | 1.04E-03 | 7.67E-04 | 7.67E-04 | 4.28E-04 | 1.09E-05 | 1.59E-04 | 1.20E-04 | 1.20E-04 | 6.59E-05 | 5.93E-06 | 6.58E-05 | 5.33E-05 | 5.33E-05 | 2.64E-05 |
| 93 | 258610.02 | 4084964.28 | 7.87E-05 | 1.14E-03 | 8.39E-04 | 8.39E-04 | 4.68E-04 | 1.19E-05 | 1.73E-04 | 1.31E-04 | 1.31E-04 | 7.20E-05 | 6.49E-05 | 9.38E-05 | 5.83E-05 | 5.83E-05 | 2.89E-05 |
| 94 | 258609.3 | 4084939.52 | 6.50E-05 | 1.23E-03 | 9.07E-04 | 9.07E-04 | 5.05E-04 | 1.29E-05 | 1.87E-04 | 1.42E-04 | 1.42E-04 | 7.78E-05 | 7.01E-06 | 1.01E-04 | 6.30E-05 | 6.30E-05 | 3.12E-05 |
| 95 | 258608.57 | 4084914.77 | 9.05E-05 | 1.31E-03 | 9.64E-04 | 9.64E-04 | 5.38E-04 | 1.37E-05 | 1.99E-04 | 1.51E-04 | 1.51E-04 | 8.28E-05 | 7.46E-06 | 1.08E-04 | 6.70E-05 | 6.70E-05 | 3.32E-05 |
| 96 | 258656.32 | 4085132.65 | 3.31E-05 | 4.78E-04 | 3.52E-04 | 3.52E-04 | 1.96E-04 | 5.02E-06 | 7.28E-05 | 5.50E-05 | 5.50E-05 | 3.02E-05 | 2.72E-06 | 3.94E-05 | 2.45E-05 | 2.45E-05 | 1.21E-05 |
| 97 | 258648.31 | 4085153.95 | 3.17E-05 | 4.58E-04 | 3.37E-04 | 3.37E-04 | 1.88E-04 | 4.80E-06 | 6.97E-05 | 5.27E-05 | 5.27E-05 | 2.90E-05 | 2.61E-06 | 3.77E-05 | 2.34E-05 | 2.34E-05 | 1.16E-05 |
| 98 | 258640.3 | 4085175.24 | 3.02E-05 | 4.37E-04 | 3.22E-04 | 3.22E-04 | 1.80E-04 | 4.59E-06 | 6.66E-05 | 5.03E-05 | 5.03E-05 | 2.77E-05 | 2.49E-06 | 3.60E-05 | 2.24E-05 | 2.24E-05 | 1.11E-05 |
| 99 | 258632.29 | 4085196.54 | 2.88E-05 | 4.17E-04 | 3.07E-04 | 3.07E-04 | 1.71E-04 | 4.37E-06 | 6.35E-05 | 4.80E-05 | 4.80E-05 | 2.64E-05 | 2.38E-06 | 3.44E-06 | 2.13E-05 | 2.13E-05 | 1.06E-05 |
| 100 | 258624.28 | 4085217.63 | 2.75E-05 | 3.97E-04 | 2.93E-04 | 2.93E-04 | 1.63E-04 | 4.17E-06 | 6.05E-05 | 4.57E-05 | 4.57E-05 | 2.51E-05 | 2.26E-06 | 3.27E-05 | 2.03E-05 | 2.03E-05 | 1

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2949 | 256405.81 | 4085953.01 | 1.0147E-08 | 1.56E-07 | 2.37E-08 | 2.37E-08 | 1.32E-08 | 2.06E-07 | 1.54E-09 | 2.06E-08 | 3.70E-09 | 3.70E-09 | 2.03E-09 | 3.16E-08 | 6.36E-10 | 1.12E-09 | 1.64E-09 | 1.64E-09 | 6.14E-10 | 1.61E-08 |
| 2950 | 256395.76 | 4085931.19 | 9.9925E-09 | 1.33E-07 | 2.33E-08 | 2.33E-08 | 1.30E-08 | 2.01E-07 | 1.52E-09 | 2.03E-08 | 3.64E-09 | 3.64E-09 | 2.00E-09 | 3.11E-08 | 8.24E-10 | 1.10E-08 | 1.62E-09 | 1.62E-09 | 8.02E-10 | 1.59E-08 |
| 2951 | 256385.71 | 4085909.37 | 9.8503E-09 | 1.31E-07 | 2.29E-08 | 2.29E-08 | 1.28E-08 | 1.99E-07 | 1.49E-09 | 1.99E-08 | 3.57E-09 | 3.57E-09 | 1.96E-09 | 3.05E-08 | 8.08E-10 | 1.08E-08 | 1.59E-09 | 1.59E-09 | 7.86E-10 | 1.56E-08 |
| 2952 | 256375.67 | 4085887.55 | 9.5825E-09 | 1.28E-07 | 2.24E-08 | 2.24E-08 | 1.25E-08 | 1.93E-07 | 1.45E-09 | 1.95E-08 | 3.49E-09 | 3.49E-09 | 1.92E-09 | 2.99E-08 | 7.90E-10 | 1.06E-08 | 1.55E-09 | 1.55E-09 | 7.69E-10 | 1.52E-08 |
| 2953 | 256365.62 | 4085865.73 | 9.2311E-09 | 1.25E-07 | 2.18E-09 | 2.16E-08 | 1.21E-09 | 1.90E-07 | 1.42E-09 | 1.90E-08 | 3.40E-09 | 3.40E-09 | 1.87E-09 | 2.91E-08 | 7.69E-10 | 1.03E-09 | 1.51E-09 | 1.51E-09 | 7.49E-10 | 1.48E-08 |
| 2954 | 256355.57 | 4085843.91 | 9.0249E-09 | 1.21E-07 | 2.11E-08 | 2.11E-08 | 1.17E-09 | 1.83E-07 | 1.37E-09 | 1.84E-08 | 3.29E-09 | 3.29E-09 | 1.81E-09 | 2.81E-08 | 7.44E-10 | 9.94E-09 | 1.48E-09 | 1.46E-09 | 7.24E-10 | 1.43E-08 |
| 2955 | 256345.52 | 4085822.09 | 6.6951E-09 | 1.16E-07 | 2.01E-08 | 2.03E-08 | 1.13E-09 | 1.77E-07 | 1.32E-09 | 1.77E-08 | 3.17E-09 | 3.17E-09 | 1.74E-09 | 2.71E-08 | 7.17E-10 | 9.57E-09 | 1.41E-09 | 1.41E-09 | 6.98E-10 | 1.38E-08 |
| 2956 | 256325.48 | 4085800.27 | 8.3162E-09 | 1.11E-07 | 1.94E-08 | 1.94E-08 | 1.08E-08 | 1.69E-07 | 1.27E-09 | 1.70E-08 | 3.04E-09 | 3.04E-09 | 1.67E-09 | 2.60E-08 | 6.87E-10 | 9.18E-09 | 1.35E-09 | 1.35E-09 | 6.69E-10 | 1.32E-08 |
| 2957 | 256315.41 | 4085778.45 | 7.9605E-09 | 1.06E-07 | 1.68E-08 | 1.85E-08 | 1.04E-09 | 1.62E-07 | 1.21E-09 | 1.62E-08 | 2.90E-09 | 2.90E-09 | 1.59E-09 | 2.48E-08 | 6.56E-10 | 8.77E-09 | 1.29E-09 | 1.29E-09 | 6.39E-10 | 1.28E-08 |
| 2958 | 256125.38 | 4085756.63 | 7.5709E-09 | 1.01E-07 | 1.77E-08 | 1.77E-08 | 9.85E-09 | 1.54E-07 | 1.15E-09 | 1.54E-09 | 2.76E-09 | 2.76E-09 | 1.52E-09 | 2.36E-08 | 8.24E-10 | 8.34E-09 | 1.23E-09 | 1.23E-09 | 6.07E-10 | 1.20E-08 |
| 2959 | 256305.33 | 4085734.81 | 7.1773E-09 | 9.59E-08 | 1.67E-08 | 1.67E-08 | 9.34E-09 | 1.46E-07 | 1.09E-09 | 1.46E-08 | 2.61E-09 | 2.61E-09 | 1.44E-09 | 2.24E-08 | 5.92E-10 | 7.90E-09 | 1.16E-09 | 1.16E-09 | 5.76E-10 | 1.14E-08 |
| 2960 | 256295.29 | 4085712.99 | 6.791E-09 | 9.07E-09 | 1.58E-08 | 1.58E-08 | 6.81E-09 | 1.38E-07 | 1.03E-09 | 1.38E-08 | 2.47E-09 | 2.47E-09 | 1.36E-09 | 2.12E-08 | 5.60E-10 | 7.48E-09 | 1.10E-09 | 1.10E-09 | 5.45E-10 | 1.08E-08 |
| 2961 | 256285.24 | 4085691.17 | 6.4193E-09 | 6.57E-09 | 1.50E-08 | 1.50E-09 | 6.31E-09 | 1.30E-07 | 9.74E-10 | 1.31E-08 | 2.34E-09 | 2.34E-09 | 1.29E-09 | 2.00E-08 | 5.29E-10 | 7.07E-09 | 1.04E-09 | 1.04E-09 | 5.13E-10 | 1.02E-08 |
| 2962 | 256275.19 | 4085669.35 | 6.0585E-09 | 8.09E-09 | 1.41E-08 | 1.41E-08 | 7.88E-09 | 1.21E-07 | 9.19E-10 | 1.23E-08 | 2.21E-09 | 2.21E-09 | 1.21E-09 | 1.89E-08 | 4.99E-10 | 6.67E-09 | 9.62E-10 | 9.82E-10 | 4.86E-10 | 9.62E-09 |
| 2963 | 256265.14 | 4085647.52 | 5.7269E-09 | 7.63E-08 | 1.34E-08 | 1.34E-08 | 7.45E-09 | 1.16E-07 | 6.69E-10 | 1.17E-08 | 2.09E-09 | 2.09E-09 | 1.19E-09 | 1.78E-08 | 4.72E-10 | 6.31E-09 | 9.28E-10 | 9.28E-10 | 4.59E-10 | 9.09E-09 |
| 2964 | 256255.09 | 4085625.71 | 5.4263E-09 | 7.23E-08 | 1.27E-08 | 1.27E-08 | 7.06E-09 | 1.10E-07 | 8.24E-10 | 1.10E-08 | 1.98E-09 | 1.98E-09 | 1.09E-09 | 1.69E-08 | 4.47E-10 | 5.97E-09 | 6.79E-10 | 6.79E-10 | 4.33E-10 | 8.62E-09 |
| 2965 | 256245.05 | 4085603.89 | 5.1602E-09 | 8.89E-08 | 1.20E-08 | 1.20E-09 | 6.71E-09 | 1.05E-07 | 7.83E-10 | 1.05E-08 | 1.88E-09 | 1.88E-09 | 1.03E-09 | 1.61E-08 | 4.25E-10 | 5.68E-09 | 6.36E-10 | 8.36E-10 | 4.14E-10 | 8.19E-09 |
| 2966 | 256235 | 4085582.07 | 4.9288E-09 | 6.58E-09 | 1.15E-08 | 1.15E-08 | 6.41E-09 | 1.00E-07 | 7.48E-10 | 1.00E-08 | 1.80E-09 | 1.80E-09 | 9.87E-10 | 1.54E-08 | 4.06E-10 | 5.43E-09 | 7.99E-10 | 7.99E-10 | 3.95E-10 | 7.83E-09 |
| 2967 | 256224.95 | 4085560.26 | 4.7339E-09 | 6.32E-08 | 1.10E-08 | 1.10E-09 | 6.18E-09 | 9.62E-08 | 7.18E-10 | 9.63E-09 | 1.72E-09 | 1.72E-09 | 9.48E-10 | 1.47E-08 | 3.90E-10 | 5.21E-09 | 7.87E-10 | 7.87E-10 | 3.80E-10 | 7.52E-09 |
| 2968 | 256214.9 | 4085538.44 | 4.5699E-09 | 6.10E-08 | 1.07E-08 | 1.07E-08 | 5.94E-09 | 9.39E-08 | 6.94E-10 | 9.30E-09 | 1.66E-09 | 1.66E-09 | 9.15E-10 | 1.42E-08 | 3.77E-10 | 5.03E-09 | 7.41E-10 | 7.41E-10 | 3.67E-10 | 7.26E-09 |
| 2969 | 256204.86 | 4085516.62 | 4.4132E-09 | 5.92E-08 | 1.03E-08 | 1.03E-08 | 5.77E-09 | 9.01E-08 | 6.73E-10 | 9.02E-09 | 1.61E-09 | 1.61E-09 | 8.88E-10 | 1.38E-08 | 3.65E-10 | 4.88E-09 | 7.19E-10 | 7.19E-10 | 3.56E-10 | 7.04E-09 |
| 2970 | 256194.81 | 4085494.8 | 4.3184E-09 | 5.77E-08 | 1.01E-08 | 1.01E-09 | 5.61E-09 | 6.78E-08 | 6.55E-10 | 6.79E-09 | 1.57E-09 | 1.57E-09 | 8.65E-10 | 1.35E-09 | 3.56E-10 | 4.75E-09 | 7.00E-10 | 7.00E-10 | 3.48E-10 | 6.86E-09 |
| 2971 | 256194.76 | 4085472.98 | 4.2218E-09 | 5.64E-08 | 9.85E-09 | 9.85E-09 | 5.49E-09 | 8.58E-09 | 6.41E-10 | 8.59E-09 | 1.54E-09 | 1.54E-09 | 8.48E-10 | 1.22E-08 | 3.48E-10 | 4.65E-09 | 6.84E-10 | 6.84E-10 | 3.39E-10 | 6.70E-09 |
| 2972 | 256174.71 | 4085451.16 | 4.1344E-09 | 5.52E-09 | 9.65E-09 | 9.65E-09 | 5.38E-09 | 6.40E-08 | 6.27E-10 | 8.41E-09 | 1.51E-09 | 1.51E-09 | 8.28E-10 | 1.29E-08 | 3.41E-10 | 4.55E-09 | 6.70E-10 | 6.70E-10 | 3.32E-10 | 6.56E-09 |
| 2973 | 256164.67 | 4085429.34 | 4.056E-09 | 5.42E-08 | 9.46E-09 | 9.46E-09 | 5.28E-09 | 6.34E-08 | 6.16E-10 | 8.25E-09 | 1.48E-09 | 1.48E-09 | 8.12E-10 | 1.28E-08 | 3.34E-10 | 4.47E-09 | 6.57E-10 | 6.57E-10 | 3.23E-10 | 6.44E-09 |
| 2974 | 256134.62 | 4085407.52 | 3.9795E-09 | 5.32E-08 | 9.28E-09 | 9.28E-09 | 5.18E-09 | 8.09E-08 | 6.04E-10 | 8.10E-09 | 1.43E-09 | 1.45E-09 | 7.97E-10 | 1.24E-08 | 3.28E-10 | 4.38E-09 | 6.45E-10 | 6.45E-10 | 3.19E-10 | 6.32E-09 |
| 2975 | 256144.57 | 4085385.7 | 3.903E-09 | 5.21E-09 | 9.11E-09 | 9.11E-09 | 5.08E-09 | 7.91E-09 | 5.92E-10 | 7.94E-09 | 1.42E-09 | 1.42E-09 | 7.82E-10 | 1.22E-08 | 2.22E-10 | 4.30E-09 | 6.33E-10 | 6.33E-10 | 3.13E-10 | 6.20E-09 |
| 2976 | 256134.52 | 4085363.88 | 3.8265E-09 | 5.11E-09 | 8.91E-09 | 8.93E-09 | 4.98E-09 | 7.76E-08 | 5.61E-10 | 7.79E-09 | 1.39E-09 | 1.39E-09 | 7.66E-10 | 1.19E-09 | 3.15E-10 | 4.21E-09 | 6.20E-10 | 6.20E-10 | 3.07E-10 | 6.08E-09 |
| 2977 | 256124.47 | 4085342.06 | 2.7499E-09 | 5.01E-08 | 8.75E-09 | 6.75E-09 | 4.88E-09 | 7.62E-09 | 5.69E-10 | 7.62E-09 | 1.37E-09 | 1.37E-09 | 7.51E-10 | 1.17E-08 | 2.09E-10 | 4.18E-09 | 6.08E-10 | 6.08E-10 | 3.01E-10 | 5.95E-09 |
| 2978 | 256114.43 | 4085320.24 | 3.6734E-09 | 4.91E-08 | 8.57E-09 | 6.57E-09 | 4.78E-09 | 7.47E-08 | 5.58E-10 | 7.48E-09 | 1.34E-09 | 1.34E-09 | 7.36E-10 | 1.14E-08 | 3.03E-10 | 4.04E-09 | 5.95E-10 | 5.95E-10 | 2.95E-10 | 5.83E-09 |
| 2979 | 256104.38 | 4085298.42 | 2.6028E-09 | 4.81E-08 | 8.40E-09 | 8.40E-09 | 4.69E-09 | 7.32E-08 | 5.47E-10 | 7.21E-09 | 1.31E-09 | 1.31E-09 | 7.21E-10 | 1.12E-08 | 2.97E-10 | 3.97E-09 | 5.84E-10 | 5.84E-10 | 2.89E-10 | 5.72E-09 |
| 2980 | 256094.33 | 4085276.6 | 3.5367E-09 | 4.72E-09 | 8.25E-09 | 8.25E-09 | 4.60E-09 | 7.19E-08 | 5.37E-10 | 7.20E-09 | 1.29E-09 | 1.29E-09 | 7.08E-10 | 1.10E-08 | 2.92E-10 | 3.89E-09 | 5.73E-10 | 5.73E-10 | 2.84E-10 | 5.62E-09 |
| 2981 | 256084.28 | 4085254.76 | 2.478E-09 | 4.64E-08 | 8.10E-09 | 8.10E-09 | 4.52E-09 | 7.06E-08 | 5.27E-10 | 7.07E-09 | 1.27E-09 | 1.27E-09 | 6.96E-10 | 1.08E-08 | 2.86E-10 | 3.82E-09 | 5.63E-10 | 5.63E-10 | 2.79E-10 | 5.51E-09 |
| 2982 | 256074.24 | 4085232.96 | 3.4201E-09 | 4.57E-08 | 7.98E-09 | 7.88E-09 | 4.45E-09 | 6.95E-09 | 5.19E-10 | 6.96E-09 | 1.25E-09 | 1.25E-09 | 6.85E-10 | 1.07E-08 | 2.82E-10 | 3.77E-09 | 5.54E-10 | 5.54E-10 | 2.74E-10 | 5.43E-09 |
| 2983 | 257629.53 | 4086654.13 | 6.3464E-09 | 8.48E-09 | 1.48E-09 | 1.48E-09 | 8.25E-09 | 1.29E-07 | 9.83E-10 | 1.29E-08 | 2.31E-09 | 2.31E-09 | 1.27E-09 | 1.98E-08 | 5.23E-10 | 6.99E-09 | 1.03E-09 | 1.03E-09 | 5.09E-10 | 1.01E-08 |
| 2984 | 257653.81 | 4086653.06 | 6.2881E-09 | 8.40E-08 | 1.47E-08 | 1.47E-08 | 6.18E-09 | 1.28E-07 | 9.54E-10 | 1.28E-08 | 2.29E-09 | 2.29E-09 | 1.26E-09 | 1.96E-09 | 5.18E-10 | 6.92E-09 | 1.02E-09 | 1.02E-09 | 5.04E-10 | 9.98E-09 |
| 2985 | 257678.09 | 4086651.98 | 8.2335E-09 | 6.33E-08 | 1.41E-09 | 1.43E-08 | 6.11E-09 | 1.27E-07 | 9.46E-10 | 1.27E-08 | 2.27E-09 | 2.27E-09 | 1.25E-09 | 1.94E-08 | 5.14E-10 | 6.86E-09 | 1.01E-09 | 1.01E-09 | 5.00E-10 | 9.90E-09 |
| 2986 | 257702.38 | 4086650.9 | 6.1788E-09 | 8.25E-08 | 1.44E-08 | 1.44E-08 | 6.04E-09 | 1.26E-07 | 9.38E-10 | 1.28E-09 | 2.25E-09 | 2.25E-09 | 1.24E-09 | 1.93E-08 | 5.09E-10 | 6.80E-09 | 1.00E-09 | 1.00E-09 | 4.96E-10 | 9.81E-09 |
| 2987 | 257726.86 | 4086649.83 | 8.1276E-09 | 8.19E-09 | 1.43E-09 | 1.43E-09 | 7.97E-09 | 1.25E-07 | 9.30E-10 | 1.25E-08 | 2.23E-09 | 2.23E-09 | 1.23E-09 | 1.91E-08 | 5.05E-10 | 6.75E-09 | 9.93E-10 | 9.93E-10 | 4.92E-10 | 9.73E-09 |
| 2988 | 257750.94 | 4086648.75 | 8.0768E-09 | 8.12E-08 | 1.42E-08 | 1.42E-08 | 7.90E-09 | 1.24E-07 | 9.22E-10 | 1.24E-08 | 2.21E-09 | 2.21E-09 | 1.22E-09 | 1.89E-08 | 5.01E-10 | 6.69E-09 | 9.85E-10 | 9.85E-10 | 4.87E-10 | 9.65E-09 |
| 2989 | 257775.22 | 4086647.68 | 6.0239E-09 | 8.05E-08 | 1.41E-08 | 1.41E-09 | 7.84E-09 | 1.22E-07 | 9.14E-10 | 1.23E-09 | 2.19E-09 | 2.19E-09 | 1.21E-09 | 1.88E-08 | 4.97E-10 | 6.83E-09 | 9.76E-10 | 9.76E-10 | 4.83E-10 | 9.57E-09 |
| 2990 | 257799.5 | 4086646.6 | 5.9692E-09 | 7.97E-08 | 1.39E-08 | 1.39E-08 | 7.76E-09 | 1.21E-07 | 9.06E-10 | 1.21E-09 | 2.17E-09 | 2.17E-09 | 1.20E-09 | 1.66E-09 | 4.92E-10 | 6.57E-09 | 9.67E-10 | 9.67E-10 | 4.79E-10 | 9.48E-09 |
| 2991 | 257823.79 | 4086645.53 | 5.9109E-09 | 7.90E-09 | 1.38E-08 | 1.38E-08 | 7.69E-09 | 1.20E-07 | 6.97E-10 | 1.20E-09 | 2.15E-09 | 2.15E-09 | 1.15E-09 | 1.84E-08 | 4.87E-10 | 6.51E-09 | 9.58E-10 | 9.58E-10 | 4.74E-10 | 9.39E-09 |
| 2992 | 257848.07 | 4086644.45 | 5.8472E-09 | 7.81E-08 | 1.36E-08 | 1.36E-08 | 7.61E-09 | 1.19E-07 | 6.87E-10 | 1.19E-08 | 2.13E-09 | 2.11E-09 | 1.17E-09 | 1.82E-09 | 4.82E-10 | 6.44E-09 | 9.48E-10 | 9.48E-10 | 4.69E-10 | 9.28E-09 |
| 2993 | 257872.35 | 4086642.38 | 5.7779E-09 | 7.72E-08 | 1.33E-09 | 1.35E-08 | 7.52E-09 | 1.17E-07 | 8.77E-10 | 1.18E-08 | 2.10E-09 | 2.10E-09 | 1.16E-09 | 1.80E-08 | 4.76E-10 | 6.36E-09 | 9.36E-10 | 9.36E-10 | 4.84E-10 | 9.17E-09 |
| 2994 | 257896.63 | 4086642.3 | 5.7014E-09 | 7.62E-08 | 1.33E-09 | 1.33E-08 | 7.42E-09 | 1.16E-07 | 6.65E-10 | 1.16E-08 | 2.08E-09 | 2.08E-09 | 1.14E-09 | 1.76E-08 | 4.70E-10 | 6.28E-09 | 9.24E-10 | 9.24E-10 | 4.57E-10 | 9.06E-09 |
| 2995 | 257920.91 | 4086641.23 | 5.6194E-09 | 7.51E-09 | 1.31E-08 | 1.31E-09 | 7.31E-09 | 1.14E-07 | 8.53E-10 | 1.14E-08 | 2.05E-09 | 2.06E-09 | 1.11E-09 | 1.71E-08 | 4.63E-10 | 6.19E-09 | 9.11E-10 | 9.11E-10 | 4.51E-10 | 8.92E-09 |
| 2998 | 257945.19 | 4086640.15 | 5.5301E-09 | 7.39E-08 | 1.29E-08 | 1.29E-08 | 7.19E-09 | 1.12E-07 | 8.39E-10 | 1.13E-09 | 2.01E-09 | 2.01E-09 | 1.11E-09 | 1.72E-09 | 4.56E-10 | 6.09E-09 | 8.96E-10 | 8.96E-10 | 4.44E-10 | 6.78E-09 |
| 2997 | 257969.48 | 4086639.07 | 5.4354E-09 | 7.28E-09 | 1.27E-09 | 1.27E-09 | 7.07E-09 | 1.10E-07 | 8.25E-10 | 1.11E-08 | 1.98E-09 | 1.98E-09 | 1.09E-09 | 1.69E-08 | 4.48E-10 | 5.98E-09 | 8.81E-10 | 8.81E-10 | 4.36E-10 | 8.63E-09 |
| 2998 | 257993.76 | 4086638 | 5.3152E-09 | 7.13E-08 | 1.24E-09 | 1.24E-08 | 6.94E-09 | 1.08E-07 | 6.10E-10 | 1.09E-09 | 1.94E-09 | 1.94E-09 | 1.07E-09 | 1.66E-08 | 4.40E-10 | 5.87E-09 | 8.65E-10 | 8.65E-10 | 4.28E-10 | 8.47E-09 |
| 2999 | 258018.04 | 4086636.92 | 5.2293E-09 | 6.99E-08 | 1.22E-09 | 1.22E-09 | 6.82E-09 | 1.06E-07 | 7.94E-10 | 1.06E-09 | 1.91E-09 | 1.91E-09 | 1.05E-09 | 1.63E-09 | 4.31E-10 | 5.76E-09 | 8.48E-10 | 8.48E-10 | 4.20E-10 | 8.30E-09 |
| 3000 | 258042.32 | 4086635.85 | 5.122E-09 | 6.84E-08 | 1.20E-09 | 1.20E-08 | 6.66E-09 | 1.04E-07 | 7.77E-10 | 1.04E-08 | 1.87E-09 | 1.87E-09 | 1.03E-09 | 1.60E-08 | 4.22E-10 | 5.64E-09 | 8.30E-10 | 8.30E-10 | 4.11E-10 | 8.13E-09 |
| 3001 | 258066.6 | 4086634.77 | 5.0143E-09 | 6.70E-08 | 1.17E-08 | 1.17E-09 | 6.52E-09 | 1.02E-07 | 7.61E-10 | 1.02E-09 | 1.83E-09 | 1.83E-09 | 1.00E-09 | 1.56E-08 | 4.13E-10 | 5.52E-09 | 8.13E-10 | 8.13E-10 | 4.02E-10 | 7.96E-09 |
| 3002 | 258090.89 | 4086633.7 | 4.9088E-09 | 6.56E-08 | 1.15E-08 | 1.15E-08 | 6.38E-09 | 9.98E-08 | 7.45E-10 | 9.99E-09 | 1.79E-09 | 1.79E-09 | 9.83E-10 | 1.53E-08 | 4.06E-10 | 5.40E-09 | 7.96E-10 | 7.96E-10 | 3.94E-10 | 7.79E-09 |
| 3003 | 258115.17 | 4086632.62 | 4.8049E-09 | 6.42E-08 | 1.12E-08 | 1.12E-08 | 6.25E-09 | 9.77E-08 | 7.29E-10 | 9.78E-09 | 1.75E-09 | 1.73E-09 | 9.61E-10 | 1.50E-08 | 3.96E-10 | 5.29E-09 | 7.79E-10 | 7.79E-10 | 3.85E-10 | 7.63E-09 |
| 3004 | 258139.45 | 4086631.55 | 4.7065E-09 | 6.29E-08 | 1.10E-09 | 1.10E-08 | 6.12E-09 | 9.57E-08 | 7.14E-10 | 9.58E-09 | 1.71E-09 | 1.71E-09 | 9.43E-10 | 1.47E-08 | 3.88E-10 | 5.18E-09 | 7.63E-10 | 7.68E-10 | 3.78E-10 | 7.47E-09 |
| 3005 | 256163.73 | 4086630.47 | 4.6154E-09 | 6.17E-09 | 1.06E-08 | 1.08E-08 | 6.00E-09 | 9.38E-08 | 7.00E-10 | 9.39E-09 | 1.68E-09 | 1.68E-09 | 9.24E-10 | 1.44E-09 | 3.80E-10 | 5.08E-09 | 7.48E-10 | 7.48E-10 | 3.70E-10 | 7.31E-09 |
| 3006 | 258188.01 | 4086629.4 | 4.5216E-09 | 6.05E-08 | 1.06E-08 | 1.06E-08 | 5.89E-09 | 9.21E-08 | 6.88E-10 | 9.22E-09 | 1.65E-09 | 1.65E-09 | 9.08E-10 | 1.41E-08 | 3.74E-10 | 4.99E-09 | 7.34E-10 | 7.34E-10 | 3.64E-10 | 7.20E-09 |
| 3007 | 258212.29 | 4086628.32 | 4.4533E-09 | 5.95E-09 | 1.04E-08 | 1.04E-09 | 5.79E-09 | 9.05E-09 | 6.76E-10 | 9.06E-09 | 1.62E-09 | 1.62E-09 | 8.92E-10 | 1.39E-08 | 3.67E-10 | 4.90E-09 | 7.22E-10 | 7.22E-10 | 3.57E-10 | 7.07E-09 |
| 3008 | 258136.58 | 4086627.24 | 4.3804E-09 | 5.85E-08 | 1.02E-09 | 1.02E-09 | 5.70E-09 | 8.90E-09 | 6.65E-10 | 6.91E-09 | 1.60E-09 | 1.60E-09 | 6.77E-10 | 1.36E-09 | 3.61E-10 | 4.82E-09 | 7.10E-10 | 7.10E-10 | 3.51E-10 | 6.96E-09 |
| 3009 | 258260.86 | 4086626.17 | 4.3111E-09 | 5.76E-09 | 1.01E-09 | 1.01E-09 | 5.61E-09 | 8.76E-09 | 6.54E-10 | 6.77E-09 | 1.57E-09 | 1.57E-09 | 6.63E-10 | 1.34E-09 | 3.55E-10 | 4.75E-09 | 6.99E-10 | 6.99E-10 | 3.46E-10 | 6.85E-09 |
| 3010 | 258285.14 | 4086625.09 | 4.2455E-09 | 5.67E-09 | 9.91E-09 | 9.91E-09 | 5.52E-09 | 6.63E-09 | 6.44E-10 | 6.64E-09 | 1.55E-09 | 1.55E-09 | 6.50E-10 | 1.32E-09 | 3.50E-10 | 4.67E-09 | 6.88E-10 | 6.88E-10 | 3.41E-10 | 6.74E-09 |
| 3011 | 256309.42 | 4086624.02 | 4.1618E-09 | 5.59E-09 | 9.76E-09 | 9.76E-09 | 5.44E-09 | 8.50E-09 | 6.35E-10 | 6.51E-09 | 1.52E-09 | 1.52E-09 | 8.37E-10 | 1.30E-08 | 3.48E-10 | 4.60E-09 | 6.78E-10 | 6.78E-10 | 3.35E-10 | 6.64E-09 |
| 3012 | 25833.7 | 4086622.94 | 4.118E-09 | 5.50E-08 | 9.61E-09 | 9.61E-09 | 5.36E-09 | 6.37E-08 | 6.25E-10 | 6.38E-09 | 1.50E-09 | 1.50E-09 | 8.21E-10 | 1.28E-08 | 3.39E-10 | 4.51E-09 | 6.67E-10 | 6.67E-10 | 3.30E-10 | 6.54E-09 |
| 3013 | 258357.99 | 4086621.87 | 4.056E-09 | 5.42E-08 | 9.46E-09 | 9.46E-09 | 5.28E-09 | 6.24E-08 | 6.16E-10 | 6.25E-09 | 1.48E-09 | 1.48E-09 | 8.12E-10 | 1.28E-08 | 3.34E-10 | 4.47E-09 | 6.57E-10 | 6.57E-10 | 3.25E-10 | 6.44E-09 |
| 3014 | 258382.27 | 4086620.79 | 3.9959E-09 | 5.34E-08 | 9.32E-09 | 9.32E-09 | 5.20E-09 | 6.12E-08 | 6.06E-10 | 8.13E-09 | 1.46E-09 | 1.46E-09 | 8.00E-10 | 1.24E-08 | 3.29E-10 | 4.40E-09 | 6.48E-10 | 6.48E-10 | 3.21E-10 | 6.34E-09 |
| 3015 | 258406.55 | 4086619.72 | 3.9339E-09 | 5.25E-09 | 9.16E-09 | 9.18E-09 | 5.12E-09 | 6.00E-09 | 5.97E-10 | 8.01E-09 | 1.43E-09 | 1.43E-09 | 7.88E-10 | 1.23E-08 | 3.24E-10 | 4.33E-09 | 6.38E-10 | 6.38E-10 | 3.16E-10 | 8.23E-09 |
| 3016 | 258430.83 | 4086618.84 | 3.672E-09 | 5.17E-09 | 9.03E-09 | 9.03E-09 | 5.04E-09 | 7.67E-09 | 5.88E-10 | 7.88E-09 | 1.41E-09 | 1.41E-09 | 7.75E-10 | 1.21E-09 | 3.19E-10 | 4.26E-09 | 6.26E-10 | 6.28E-10 | 3.11E-10 | 6.15E-09 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2826 | 256552.66 | 4085810.48 | 1.1536E-08 | 1.54E-07 | 2.69E-08 | 2.69E-09 | 1.50E-08 | 3.34E-07 |
| 2827 | 256542.71 | 4085808.87 | 1.1288E-08 | 1.51E-07 | 2.63E-08 | 2.63E-08 | 1.47E-08 | 3.29E-07 |
| 2828 | 256532.76 | 4085767.26 | 1.0991E-08 | 1.47E-07 | 2.56E-08 | 2.56E-08 | 1.45E-08 | 3.33E-07 |
| 2829 | 256522.8 | 4085765.84 | 1.0648E-08 | 1.42E-07 | 2.48E-08 | 2.48E-08 | 1.39E-08 | 2.16E-07 |
| 2830 | 256512.85 | 4085744.03 | 1.0284E-08 | 1.37E-07 | 2.59E-08 | 2.39E-08 | 1.34E-09 | 2.09E-07 |
| 2831 | 256502.9 | 4085722.42 | 9.8431E-09 | 1.31E-07 | 2.20E-08 | 2.20E-08 | 1.28E-09 | 3.00E-07 |
| 2832 | 256492.95 | 4085700.81 | 9.4094E-09 | 1.26E-07 | 3.20E-08 | 2.20E-08 | 1.22E-08 | 1.91E-07 |
| 2833 | 256483 | 4085679.2 | 8.9357E-09 | 1.19E-07 | 3.08E-08 | 2.08E-08 | 1.16E-08 | 1.82E-07 |
| 2834 | 256473.04 | 4085657.58 | 8.451E-09 | 1.13E-07 | 1.97E-08 | 1.97E-08 | 1.10E-08 | 1.72E-07 |
| 2835 | 256463.09 | 4085635.97 | 7.9681E-09 | 1.06E-07 | 1.88E-08 | 1.86E-08 | 1.04E-08 | 1.62E-07 |
| 2836 | 256453.14 | 4085614.36 | 7.458E-09 | 1.00E-07 | 1.75E-08 | 1.75E-08 | 9.75E-09 | 1.52E-07 |
| 2837 | 256443.19 | 4085592.75 | 7.0534E-09 | 9.42E-08 | 1.85E-08 | 1.65E-08 | 9.17E-09 | 1.41E-07 |
| 2838 | 256433.24 | 4085571.14 | 6.6434E-09 | 8.87E-08 | 1.55E-08 | 1.55E-08 | 8.64E-08 | 1.35E-07 |
| 2839 | 256423.28 | 4085549.52 | 6.2735E-09 | 8.38E-08 | 1.46E-08 | 1.46E-08 | 8.16E-09 | 1.26E-07 |
| 2840 | 256413.53 | 4085527.91 | 5.951E-09 | 7.93E-08 | 1.39E-08 | 1.39E-08 | 7.74E-08 | 1.21E-07 |
| 2841 | 256403.38 | 4085506.3 | 5.8722E-09 | 7.58E-08 | 1.32E-08 | 1.32E-08 | 7.38E-09 | 1.13E-07 |
| 2842 | 256393.43 | 4085484.69 | 5.439E-09 | 7.27E-08 | 1.27E-08 | 1.27E-08 | 7.87E-09 | 1.11E-07 |
| 2843 | 256383.48 | 4085463.08 | 5.2422E-09 | 7.00E-08 | 1.22E-08 | 1.22E-08 | 6.82E-08 | 1.07E-07 |
| 2844 | 256373.52 | 4085441.47 | 5.0764E-09 | 6.78E-08 | 1.18E-08 | 1.18E-08 | 6.60E-09 | 1.03E-07 |
| 2845 | 256363.57 | 4085419.85 | 4.9361E-09 | 6.59E-08 | 1.15E-08 | 1.15E-08 | 6.42E-09 | 1.00E-07 |
| 2846 | 256353.62 | 4085398.24 | 4.8122E-09 | 6.43E-08 | 1.12E-08 | 1.12E-08 | 6.26E-09 | 9.78E-08 |
| 2847 | 256343.67 | 4085376.63 | 4.6992E-09 | 6.26E-08 | 1.10E-08 | 1.10E-08 | 6.11E-09 | 9.55E-08 |
| 2848 | 256333.72 | 4085355.02 | 4.5936E-09 | 6.14E-08 | 1.87E-08 | 1.87E-08 | 5.97E-09 | 9.34E-08 |
| 2849 | 256323.76 | 4085333.41 | 4.4915E-09 | 6.00E-08 | 1.05E-08 | 1.05E-08 | 5.84E-09 | 9.13E-08 |
| 2850 | 256313.61 | 4085311.79 | 4.3931E-09 | 5.87E-08 | 1.02E-08 | 1.02E-08 | 5.71E-09 | 8.91E-08 |
| 2851 | 356303.86 | 4085290.16 | 4.2984E-09 | 5.74E-08 | 1.00E-08 | 1.00E-08 | 5.59E-09 | 8.74E-08 |
| 2852 | 256293.91 | 4085268.57 | 4.2091E-09 | 5.62E-08 | 9.82E-09 | 9.82E-09 | 5.47E-09 | 8.55E-08 |
| 2853 | 258283.96 | 4085246.96 | 4.1271E-09 | 5.51E-08 | 9.63E-09 | 9.63E-09 | 5.37E-09 | 8.39E-08 |
| 2854 | 258274 | 4085225.35 | 4.0542E-09 | 5.42E-08 | 9.48E-09 | 9.46E-09 | 5.27E-09 | 8.24E-08 |
| 2865 | 257620.68 | 4086454.53 | 7.9371E-09 | 1.06E-07 | 1.85E-08 | 1.85E-08 | 1.03E-08 | 1.61E-07 |
| 2856 | 257644.96 | 4086453.25 | 7.8369E-09 | 1.05E-07 | 1.43E-08 | 1.83E-08 | 1.02E-09 | 1.59E-07 |
| 2857 | 257669.24 | 4086452.18 | 7.7367E-09 | 1.03E-07 | 1.81E-08 | 1.81E-08 | 1.01E-08 | 1.57E-07 |
| 2858 | 257693.53 | 4086451.1 | 7.6328E-09 | 1.02E-07 | 1.78E-08 | 1.76E-08 | 9.93E-09 | 1.55E-07 |
| 2859 | 257717.81 | 4086450.02 | 7.528E-09 | 1.01E-07 | 1.76E-08 | 1.76E-08 | 9.79E-09 | 1.53E-07 |
| 2860 | 257742.09 | 4086448.95 | 7.4251E-09 | 9.92E-08 | 1.73E-08 | 1.73E-08 | 9.66E-09 | 1.51E-07 |
| 2861 | 257766.37 | 4086447.87 | 7.3356E-09 | 9.80E-09 | 1.71E-08 | 1.71E-08 | 9.54E-09 | 1.49E-07 |
| 2862 | 257790.65 | 4086446.8 | 7.2484E-09 | 9.68E-08 | 1.69E-08 | 1.69E-08 | 9.43E-09 | 1.47E-07 |
| 2863 | 257814.94 | 4086445.72 | 7.1609E-09 | 9.57E-08 | 1.67E-08 | 1.67E-08 | 9.51E-09 | 1.46E-07 |
| 2864 | 257839.22 | 4086444.65 | 7.0716E-09 | 9.45E-08 | 1.65E-08 | 1.65E-08 | 9.20E-09 | 1.44E-07 |
| 2865 | 257863.5 | 4086443.57 | 6.9805E-09 | 9.33E-08 | 1.63E-08 | 1.63E-08 | 9.08E-09 | 1.43E-07 |
| 2866 | 257887.78 | 4086442.5 | 6.884E-09 | 9.20E-08 | 1.81E-08 | 1.61E-08 | 8.95E-09 | 1.40E-07 |
| 2867 | 257912.06 | 4086441.42 | 6.7837E-09 | 9.06E-08 | 1.58E-08 | 1.58E-08 | 8.82E-09 | 1.38E-07 |
| 2868 | 257936.34 | 4086440.35 | 8.6744E-09 | 6.93E-08 | 1.56E-08 | 1.56E-08 | 8.68E-09 | 1.36E-07 |
| 2869 | 257960.63 | 4086439.27 | 6.5614E-09 | 8.78E-08 | 1.53E-08 | 1.53E-08 | 8.53E-09 | 1.55E-07 |
| 2870 | 257984.91 | 4086438.19 | 6.4412E-09 | 6.60E-08 | 1.50E-08 | 1.50E-08 | 8.38E-09 | 1.35E-07 |
| 2671 | 258009.19 | 4086437.12 | 6.3155E-09 | 8.44E-08 | 1.47E-08 | 1.47E-08 | 8.21E-09 | 1.28E-07 |
| 2672 | 258033.47 | 4086436.04 | 6.1879E-09 | 8.27E-08 | 1.44E-08 | 1.44E-08 | 8.05E-09 | 1.26E-07 |
| 2875 | 258057.73 | 4086434.97 | 6.0604E-09 | 8.10E-08 | 1.41E-08 | 1.41E-08 | 7.88E-09 | 1.23E-07 |
| 2674 | 258082.04 | 4086433.89 | 5.9328E-09 | 7.92E-08 | 1.38E-08 | 1.38E-08 | 7.72E-09 | 1.21E-07 |
| 2875 | 256106.32 | 4086432.82 | 5.8089E-09 | 7.76E-08 | 1.56E-08 | 1.36E-08 | 7.56E-09 | 1.18E-07 |
| 2876 | 258130.6 | 4086431.74 | 5.6923E-09 | 7.60E-08 | 1.33E-08 | 1.51E-08 | 7.40E-09 | 1.16E-07 |
| 2877 | 258154.88 | 4086430.67 | 5.583E-09 | 7.46E-08 | 1.30E-08 | 1.30E-08 | 7.26E-09 | 1.15E-07 |
| 2878 | 358179.16 | 4086429.59 | 5.4809E-09 | 7.33E-08 | 1.28E-08 | 1.28E-08 | 7.13E-09 | 1.11E-07 |
| 2879 | 258203.44 | 4086428.52 | 5.3844E-09 | 7.19E-08 | 1.26E-08 | 1.26E-08 | 7.00E-09 | 1.09E-07 |
| 2880 | 258227.73 | 4086427.44 | 5.2932E-09 | 7.07E-08 | 1.25E-08 | 1.23E-08 | 6.88E-09 | 1.08E-07 |
| 2881 | 258253.01 | 4086436.36 | 5.2058E-09 | 6.95E-08 | 1.31E-08 | 1.21E-08 | 6.77E-08 | 1.06E-07 |
| 2882 | 258276.29 | 4086425.29 | 5.1165E-09 | 6.83E-08 | 1.19E-08 | 1.19E-08 | 6.66E-09 | 1.04E-07 |
| 2883 | 258300.57 | 4086424.21 | 5.0254E-09 | 6.71E-08 | 1.17E-08 | 1.17E-08 | 6.54E-09 | 1.02E-07 |
| 2884 | 258324.85 | 4086423.14 | 4.9325E-09 | 6.59E-08 | 1.15E-08 | 1.15E-08 | 8.43E-09 | 1.00E-07 |
| 2885 | 258349.14 | 4086422.06 | 4.8377E-09 | 6.46E-08 | 1.15E-08 | 1.15E-08 | 6.39E-09 | 9.83E-08 |
| 2886 | 258373.42 | 4086420.99 | 4.7411E-09 | 6.53E-08 | 1.11E-08 | 1.11E-08 | 8.17E-09 | 9.84E-08 |
| 2887 | 258397.7 | 4086419.91 | 4.6446E-09 | 6.20E-08 | 1.08E-08 | 1.08E-09 | 6.04E-09 | 9.44E-08 |
| 2888 | 258421.98 | 4086418.84 | 4.546E-09 | 6.08E-08 | 1.06E-08 | 1.06E-09 | 5.93E-09 | 9.24E-08 |
| 2889 | 257606.97 | 4086645.89 | 6.4612E-09 | 8.63E-08 | 1.51E-08 | 1.51E-09 | 8.40E-09 | 1.51E-07 |
| 2890 | 257584.4 | 4086637.65 | 6.5835E-09 | 8.79E-08 | 1.54E-08 | 1.54E-08 | 8.56E-09 | 1.34E-07 |
| 2891 | 257561.84 | 4086629.4 | 6.7127E-09 | 8.97E-08 | 1.57E-08 | 1.57E-08 | 8.73E-09 | 1.36E-07 |
| 2892 | 257539.28 | 4086621.16 | 6.8439E-09 | 9.14E-08 | 1.60E-08 | 1.60E-08 | 8.90E-09 | 1.59E-07 |
| 2893 | 257516.71 | 4086612.92 | 6.9805E-09 | 9.32E-08 | 1.63E-08 | 1.83E-08 | 9.08E-09 | 1.42E-07 |
| 2894 | 257494.15 | 4086604.68 | 7.119E-09 | 9.51E-08 | 1.66E-08 | 1.66E-08 | 9.26E-09 | 1.45E-07 |
| 2895 | 257471.59 | 4086596.43 | 7.2575E-09 | 9.89E-08 | 1.69E-08 | 1.69E-08 | 9.44E-09 | 1.48E-07 |
| 2896 | 257449.02 | 4086588.19 | 7.3941E-09 | 9.88E-08 | 1.71E-08 | 1.71E-08 | 9.62E-09 | 1.50E-07 |
| 2897 | 257426.46 | 4086579.95 | 7.5253E-09 | 1.01E-07 | 1.76E-08 | 1.76E-08 | 9.79E-09 | 1.53E-07 |
| 2898 | 257403.89 | 4086571.7 | 7.6511E-09 | 1.03E-07 | 1.79E-08 | 1.79E-08 | 9.95E-09 | 1.56E-07 |
| 2899 | 257381.33 | 4086563.46 | 7.7695E-09 | 1.04E-07 | 1.81E-08 | 1.81E-08 | 1.01E-08 | 1.58E-07 |
| 2900 | 257358.77 | 4086555.22 | 7.877E-09 | 1.05E-07 | 1.84E-08 | 1.84E-08 | 1.02E-08 | 1.60E-07 |
| 3901 | 257336.2 | 4086546.98 | 7.9772E-09 | 1.07E-07 | 1.86E-08 | 1.86E-09 | 1.04E-08 | 1.62E-07 |
| 2902 | 257313.64 | 4086538.73 | 8.0683E-09 | 1.08E-07 | 1.88E-09 | 1.82E-09 | 1.05E-08 | 1.84E-07 |
| 2903 | 257291.08 | 4086530.49 | 8.154E-09 | 1.09E-07 | 1.90E-08 | 1.90E-08 | 1.06E-08 | 1.66E-07 |
| 2904 | 257768.51 | 4086522.35 | 8.2356E-09 | 1.10E-07 | 1.92E-08 | 1.92E-09 | 1.07E-08 | 1.87E-07 |
| 2905 | 257245.95 | 4086514.01 | 6.3216E-08 | 1.11E-07 | 1.94E-08 | 1.94E-08 | 1.08E-08 | 1.69E-07 |
| 2906 | 257723.39 | 4086505.76 | 8.4145E-09 | 1.12E-07 | 1.96E-08 | 1.96E-08 | 1.09E-08 | 1.71E-07 |
| 2907 | 257300.82 | 4086497.53 | 6.4583E-09 | 1.14E-07 | 1.98E-08 | 1.58E-08 | 1.11E-08 | 1.73E-07 |
| 2908 | 257178.26 | 4086489.28 | 8.5785E-09 | 1.15E-07 | 2.00E-08 | 3.00E-08 | 1.12E-08 | 1.74E-07 |
| 2909 | 257155.7 | 4086481.04 | 8.6605E-09 | 1.16E-07 | 2.02E-08 | 3.02E-08 | 1.13E-08 | 1.76E-07 |
| 2910 | 257133.13 | 4086477.79 | 8.7407E-09 | 1.17E-07 | 3.04E-08 | 2.04E-08 | 1.14E-08 | 1.78E-07 |
| 2911 | 257110.57 | 4086464.55 | 8.8209E-09 | 1.18E-07 | 3.06E-08 | 2.06E-08 | 1.15E-08 | 1.79E-07 |
| 2912 | 257088 | 4086456.31 | 8.8992E-09 | 1.19E-07 | 2.08E-08 | 2.08E-08 | 1.16E-08 | 1.81E-07 |
| 2913 | 257065.44 | 4086448.07 | 8.9721E-09 | 1.20E-07 | 2.09E-08 | 2.09E-08 | 1.17E-08 | 1.82E-07 |
| 2914 | 257042.68 | 4086439.82 | 9.0395E-09 | 1.21E-07 | 3.11E-08 | 2.11E-08 | 1.18E-08 | 1.84E-07 |
| 2915 | 257020.31 | 4086431.58 | 9.0996E-09 | 1.22E-07 | 3.12E-08 | 2.12E-08 | 1.18E-08 | 1.85E-07 |
| 2916 | 256997.75 | 4086423.34 | 9.1488E-09 | 1.22E-07 | 3.13E-08 | 2.15E-09 | 1.19E-08 | 1.86E-07 |
| 2917 | 256975.19 | 4086415.1 | 9.1853E-09 | 1.23E-07 | 3.14E-08 | 2.14E-09 | 1.19E-08 | 1.87E-07 |
| 2916 | 256952.63 | 4086406.85 | 9.2108E-09 | 1.23E-07 | 3.15E-08 | 2.15E-09 | 1.30E-08 | 1.87E-07 |
| 2919 | 256930.06 | 4086398.61 | 9.2235E-09 | 1.23E-07 | 3.15E-09 | 2.15E-08 | 1.20E-08 | 1.87E-07 |
| 2920 | 256907.5 | 4086390.57 | 9.2235E-09 | 1.25E-07 | 3.15E-08 | 3.15E-09 | 1.20E-08 | 1.87E-07 |
| 2921 | 256884.93 | 4086382.13 | 9.2161E-09 | 1.23E-07 | 2.15E-08 | 2.15E-08 | 1.20E-08 | 1.87E-07 |
| 2922 | 256862.57 | 4086373.88 | 9.2053E-09 | 1.23E-07 | 2.15E-08 | 2.15E-09 | 1.20E-08 | 1.87E-07 |
| 2933 | 256839.8 | 4086365.64 | 9.1926E-09 | 1.35E-07 | 3.14E-08 | 2.14E-08 | 1.20E-08 | 1.87E-07 |
| 2924 | 256817.34 | 4086357.4 | 9.1798E-09 | 1.21E-07 | 2.14E-08 | 2.14E-08 | 1.19E-08 | 1.87E-07 |
| 2925 | 256794.68 | 4086349.15 | 9.1725E-09 | 1.23E-07 | 2.14E-08 | 2.14E-08 | 1.19E-08 | 1.66E-07 |
| 2926 | 256772.11 | 4086340.91 | 9.1707E-09 | 1.25E-07 | 2.14E-08 | 2.14E-08 | 1.19E-08 | 1.86E-07 |
| 2937 | 256749.55 | 4086332.87 | 9.1762E-09 | 1.23E-07 | 3.14E-08 | 2.14E-08 | 1.19E-08 | 1.86E-07 |
| 2926 | 256736.99 | 4086324.43 | 9.1853E-09 | 1.23E-07 | 3.14E-08 | 3.14E-08 | 1.19E-08 | 1.87E-07 |
| 2929 | 256704.42 | 4086316.18 | 9.1999E-09 | 1.23E-07 | 2.15E-09 | 2.15E-08 | 1.20E-08 | 1.87E-07 |
| 2930 | 256681.86 | 4086307.94 | 9.2181E-09 | 1.23E-07 | 3.15E-08 | 3.15E-08 | 1.20E-08 | 1.87E-07 |
| 2931 | 256659.3 | 4086299.7 | 9.2381E-09 | 1.23E-07 | 2.16E-08 | 2.16E-09 | 1.20E-08 | 1.88E-07 |
| 2912 | 256636.73 | 4086291.46 | 9.2582E-09 | 1.24E-07 | 2.16E-08 | 2.16E-08 | 1.20E-08 | 1.88E-07 |
| 2933 | 256614.17 | 4086283.21 | 9.291E-08 | 1.34E-07 | 2.17E-08 | 2.17E-08 | 1.21E-08 | 1.89E-07 |
| 2934 | 256591.61 | 4086274.97 | 9.3256E-08 | 1.25E-07 | 2.18E-08 | 2.18E-08 | 1.31E-08 | 1.90E-07 |
| 2935 | 256569.04 | 4086266.73 | 9.3415E-09 | 1.35E-07 | 2.18E-08 | 2.16E-08 | 1.22E-08 | 1.90E-07 |
| 2936 | 256536.43 | 4086236.67 | 9.506E-09 | 1.27E-07 | 2.22E-08 | 2.22E-08 | 1.24E-08 | 1.93E-07 |
| 2937 | 256526.38 | 4086214.85 | 9.6517E-09 | 1.29E-07 | 3.25E-08 | 2.25E-08 | 1.26E-08 | 1.96E-07 |
| 2938 | 356516.33 | 4086193.03 | 9.7939E-09 | 1.31E-07 | 3.29E-08 | 2.29E-08 | 1.27E-08 | 1.99E-07 |
| 2939 | 256506.29 | 4086171.21 | 9.9287E-09 | 1.35E-07 | 2.32E-08 | 2.32E-08 | 1.29E-09 | 2.02E-07 |
| 2940 | 256496.24 | 4086149.39 | 1.0054E-08 | 1.34E-07 | 2.53E-08 | 2.35E-08 | 1.31E-08 | 2.04E-07 |
| 2941 | 256486.19 | 4086127.57 | 1.0188E-08 | 1.38E-07 | 2.57E-08 | 2.37E-08 | 1.33E-08 | 2.07E-07 |
| 2942 | 256476.14 | 4086105.75 | 1.0266E-09 | 1.37E-07 | 2.39E-08 | 2.39E-08 | 1.33E-08 | 3.09E-07 |
| 2943 | 256466.1 | 4086083.93 | 1.0333E-08 | 1.38E-07 | 2.41E-08 | 2.41E-08 | 1.34E-08 | 3.10E-07 |
| 2944 | 256456.05 | 4086062.11 | 1.0383E-08 | 1.39E-07 | 3.42E-09 | 2.42E-08 | 1.35E-08 | 2.11E-07 |
| 2945 | 256446 | 4086040.29 | 1.0401E-08 | 1.39E-07 | 2.43E-08 | 2.43E-08 | 1.35E-08 | 3.11E-07 |
| 2946 | 256435.95 | 4086018.47 | 1.039E-08 | 1.39E-07 | 2.42E-08 | 2.42E-08 | 1.35E-08 | 2.11E-07 |
| 2947 | 256425.91 | 4085996.65 | 1.0344E-08 | 1.38E-07 | 2.41E-08 | 2.41E-08 | 1.35E-08 | 2.10E-07 |
| 2948 | 256415.86 | 4085974.82 | 1.0264E-08 | 1.37E-07 | 2.36E-08 | 2.59E-08 | 1.34E-08 | 2.09E-07 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1.75E-09 | 2.35E-08 | 4.20E-08 | 4.20E-09 | 2.31E-09 | 3.59E-08 | | | |
| 1.71E-09 | 2.30E-08 | 4.11E-09 | 4.11E-09 | 2.26E-09 | 3.52E-08 | | | |
| 1.67E-09 | 3.34E-08 | 4.00E-09 | 4.00E-09 | 3.20E-09 | 3.42E-09 | | | |
| 1.62E-09 | 2.17E-08 | 3.88E-09 | 3.88E-09 | 2.13E-09 | 3.32E-08 | | | |
| 1.56E-09 | 2.09E-08 | 3.74E-09 | 3.74E-09 | 3.06E-09 | 3.20E-09 | | | |
| 1.49E-09 | 2.00E-08 | 3.59E-09 | 3.59E-09 | 1.97E-09 | 3.07E-08 | | | |
| 1.43E-09 | 1.91E-09 | 3.43E-09 | 3.43E-09 | 1.88E-09 | 2.93E-09 | | | |
| 1.36E-09 | 1.82E-08 | 3.28E-09 | 3.28E-09 | 1.79E-09 | 2.78E-09 | | | |
| 1.26E-09 | 1.72E-08 | 3.08E-09 | 3.08E-09 | 1.69E-09 | 2.63E-08 | | | |
| 1.21E-09 | 1.62E-08 | 2.90E-09 | 2.90E-09 | 1.60E-09 | 2.48E-08 | | | |
| 1.14E-09 | 1.51E-08 | 2.73E-09 | 2.73E-09 | 1.50E-09 | 2.34E-08 | | | |
| 1.07E-09 | 1.44E-08 | 2.57E-09 | 2.57E-09 | 1.41E-09 | 2.20E-08 | | | |
| 1.01E-09 | 1.35E-08 | 3.43E-09 | 2.42E-08 | 1.55E-09 | 2.07E-08 | | | |
| 9.52E-10 | 1.26E-08 | 3.29E-09 | 2.29E-09 | 1.26E-09 | 1.95E-08 | | | |
| 9.03E-10 | 1.25E-08 | 2.17E-09 | 3.17E-09 | 1.19E-09 | 1.85E-08 | | | |
| 8.61E-10 | 1.15E-08 | 3.07E-09 | 3.07E-09 | 1.14E-09 | 1.77E-08 | | | |
| 8.25E-10 | 1.11E-08 | 1.96E-09 | 1.98E-09 | 1.09E-09 | 1.69E-08 | | | |
| 7.96E-10 | 1.07E-08 | 1.91E-09 | 1.91E-09 | 1.05E-09 | 1.63E-08 | | | |
| 7.70E-10 | 1.03E-08 | 1.85E-08 | 1.65E-09 | 1.02E-09 | 1.56E-09 | | | |
| 7.49E-10 | 1.00E-08 | 1.80E-09 | 1.80E-09 | 9.89E-10 | 1.54E-08 | | | |
| 7.30E-10 | 9.79E-09 | 1.71E-09 | 1.75E-09 | 9.84E-10 | 1.50E-08 | | | |
| 7.13E-10 | 9.56E-09 | 1.71E-09 | 1.71E-09 | 9.41E-10 | 1.46E-08 | | | |
| 6.97E-10 | 9.35E-09 | 1.67E-09 | 1.87E-09 | 9.20E-10 | 1.45E-09 | | | |
| 6.82E-10 | 9.14E-09 | 1.64E-09 | 1.64E-09 | 9.00E-10 | 1.40E-09 | | | |
| 6.87E-10 | 8.94E-09 | 1.60E-09 | 1.60E-09 | 8.80E-10 | 1.57E-08 | | | |
| 6.52E-10 | 8.75E-09 | 1.52E-09 | 1.57E-09 | 6.61E-10 | 1.34E-08 | | | |
| 6.39E-10 | 6.57E-09 | 1.53E-09 | 1.53E-09 | 6.43E-10 | 1.31E-08 | | | |
| 6.26E-10 | 8.40E-09 | 1.50E-09 | 1.50E-09 | 8.27E-10 | 1.29E-08 | | | |
| 6.15E-10 | 6.25E-09 | 1.46E-09 | 1.46E-08 | 8.12E-10 | 1.26E-08 | | | |
| 1.20E-09 | 1.62E-09 | 1.89E-09 | 2.69E-08 | 1.58E-09 | 2.47E-08 | | | |
| 1.19E-09 | 1.58E-08 | 2.85E-09 | 3.85E-09 | 1.57E-09 | 2.44E-08 | | | |
| 1.17E-09 | 1.57E-09 | 2.82E-09 | 2.82E-09 | 1.55E-09 | 2.41E-08 | | | |
| 1.16E-09 | 1.55E-09 | 2.78E-09 | 2.78E-09 | 1.53E-09 | 2.38E-08 | | | |
| 1.14E-09 | 1.53E-09 | 2.74E-09 | 2.74E-09 | 1.51E-09 | 2.35E-08 | | | |
| 1.15E-09 | 1.51E-08 | 2.70E-09 | 2.70E-09 | 1.49E-09 | 3.35E-08 | | | |
| 1.11E-09 | 1.49E-08 | 2.67E-09 | 2.67E-09 | 1.47E-09 | 3.29E-08 | | | |
| 1.10E-09 | 1.47E-08 | 3.64E-09 | 2.64E-09 | 1.45E-09 | 3.26E-08 | | | |
| 1.09E-09 | 1.46E-08 | 2.81E-09 | 3.61E-09 | 1.45E-09 | 2.23E-08 | | | |
| 1.07E-09 | 1.44E-08 | 2.58E-09 | 2.58E-09 | 1.43E-09 | 2.20E-09 | | | |
| 1.06E-09 | 1.42E-08 | 2.54E-09 | 3.54E-09 | 1.40E-09 | 2.17E-08 | | | |
| 1.04E-09 | 1.40E-08 | 2.51E-09 | 3.51E-09 | 1.38E-09 | 2.14E-09 | | | |
| 1.03E-09 | 1.38E-08 | 2.47E-09 | 2.47E-09 | 1.36E-09 | 2.11E-09 | | | |
| 1.01E-09 | 1.36E-08 | 2.43E-09 | 3.43E-09 | 1.34E-09 | 2.08E-08 | | | |
| 9.96E-10 | 1.34E-08 | 2.39E-09 | 2.39E-09 | 1.51E-09 | 2.04E-08 | | | |
| 9.78E-10 | 1.31E-08 | 2.35E-09 | 3.35E-09 | 1.29E-09 | 2.01E-08 | | | |
| 9.58E-10 | 1.29E-08 | 2.30E-09 | 2.30E-09 | 1.26E-09 | 1.97E-08 | | | |
| 9.39E-10 | 1.26E-08 | 2.25E-09 | 3.25E-09 | 1.24E-09 | 1.93E-08 | | | |
| 9.20E-10 | 1.23E-08 | 2.21E-09 | 3.25E-08 | 1.25E-09 | 1.89E-08 | | | |
| 9.00E-10 | 1.21E-08 | 2.16E-09 | 3.16E-09 | 1.19E-09 | 1.85E-08 | | | |
| 8.82E-10 | 1.18E-08 | 2.12E-09 | 3.13E-09 | 1.16E-09 | 1.81E-08 | | | |
| 8.64E-10 | 1.16E-08 | 2.07E-09 | 3.87E-09 | 1.14E-09 | 1.77E-08 | | | |
| 8.47E-10 | 1.14E-08 | 2.03E-09 | 2.03E-09 | 1.12E-09 | 1.74E-08 | | | |
| 8.33E-10 | 1.12E-08 | 2.00E-09 | 3.00E-09 | 1.10E-09 | 1.71E-08 | | | |
| 8.17E-10 | 1.10E-08 | 1.96E-09 | 1.96E-09 | 1.08E-09 | 1.68E-08 | | | |
| 8.03E-10 | 1.08E-08 | 1.93E-09 | 1.91E-09 | 1.06E-09 | 1.65E-08 | | | |
| 7.90E-10 | 1.06E-08 | 1.90E-09 | 1.90E-09 | 1.04E-09 | 1.62E-09 | | | |
| 7.77E-10 | 1.04E-08 | 1.86E-09 | 1.88E-09 | 1.02E-09 | 1.59E-09 | | | |
| 7.63E-10 | 1.03E-08 | 1.83E-09 | 1.83E-09 | 1.01E-09 | 1.57E-08 | | | |
| 7.49E-10 | 1.00E-08 | 1.80E-09 | 1.80E-09 | 9.88E-10 | 1.54E-09 | | | |
| 7.34E-10 | 9.84E-09 | 1.76E-09 | 1.76E-09 | 9.69E-10 | 1.51E-08 | | | |
| 7.20E-10 | 9.65E-09 | 1.73E-09 | 1.71E-09 | 9.49E-10 | 1.48E-08 | | | |
| 7.05E-10 | 9.45E-09 | 1.69E-09 | 1.69E-09 | 9.30E-10 | 1.45E-08 | | | |
| 6.90E-10 | 9.25E-09 | 1.66E-09 | 1.66E-09 | 9.11E-10 | 1.42E-08 | | | |
| 9.81E-10 | 1.51E-08 | 2.35E-09 | 3.35E-09 | 1.29E-09 | 2.05E-08 | | | |
| 9.99E-10 | 1.34E-08 | 2.40E-09 | 3.40E-09 | 1.32E-09 | 2.05E-08 | | | |
| 1.02E-09 | 1.37E-08 | 3.45E-09 | 2.45E-08 | 1.34E-09 | 2.09E-08 | | | |
| 1.04E-09 | 1.39E-08 | 2.49E-09 | 3.49E-09 | 1.37E-08 | 2.13E-08 | | | |
| 1.06E-09 | 1.42E-08 | 3.54E-09 | 2.54E-09 | 1.40E-09 | 2.17E-09 | | | |
| 1.08E-09 | 1.45E-08 | 3.59E-09 | 3.59E-09 | 1.43E-09 | 2.12E-08 | | | |
| 1.10E-09 | 1.48E-08 | 2.64E-09 | 3.64E-09 | 1.45E-09 | 2.26E-08 | | | |
| 1.13E-09 | 1.50E-08 | 2.69E-09 | 2.69E-09 | 1.48E-09 | 2.30E-08 | | | |
| 1.14E-09 | 1.53E-08 | 2.74E-09 | 3.74E-09 | 1.51E-09 | 2.34E-08 | | | |
| 1.16E-09 | 1.56E-08 | 2.79E-09 | 3.79E-09 | 1.53E-09 | 2.38E-08 | | | |
| 1.18E-09 | 1.58E-08 | 2.83E-09 | 3.83E-09 | 1.56E-09 | 2.42E-08 | | | |
| 1.20E-09 | 1.60E-08 | 2.87E-09 | 3.87E-09 | 1.58E-09 | 2.45E-09 | | | |
| 1.21E-09 | 1.62E-08 | 2.91E-08 | 2.91E-09 | 1.60E-09 | 2.49E-08 | | | |
| 1.22E-09 | 1.64E-08 | 2.94E-09 | 2.94E-09 | 1.63E-09 | 2.51E-08 | | | |
| 1.24E-09 | 1.66E-08 | 3.97E-08 | 2.97E-09 | 1.65E-09 | 2.54E-08 | | | |
| 1.26E-09 | 1.66E-08 | 3.00E-09 | 3.00E-09 | 1.65E-09 | 2.57E-08 | | | |
| 1.26E-09 | 1.69E-08 | 3.03E-09 | 3.03E-09 | 1.87E-09 | 2.59E-09 | | | |
| 1.28E-09 | 1.71E-08 | 3.07E-09 | 3.07E-09 | 1.69E-09 | 2.82E-08 | | | |
| 1.29E-09 | 1.73E-08 | 3.10E-09 | 3.10E-09 | 1.70E-09 | 2.65E-08 | | | |
| 1.30E-09 | 1.75E-08 | 3.13E-09 | 3.12E-09 | 1.72E-09 | 2.67E-08 | | | |
| 1.51E-09 | 1.76E-08 | 3.15E-09 | 3.15E-09 | 1.73E-09 | 2.70E-08 | | | |
| 1.33E-09 | 1.78E-08 | 3.18E-09 | 3.18E-09 | 1.75E-09 | 2.77E-08 | | | |
| 1.34E-09 | 1.79E-08 | 3.31E-09 | 3.21E-09 | 1.77E-09 | 2.75E-08 | | | |
| 1.55E-09 | 1.81E-08 | 3.24E-09 | 3.24E-09 | 1.78E-09 | 2.77E-08 | | | |
| 1.36E-09 | 1.83E-08 | 3.27E-09 | 3.27E-09 | 1.80E-09 | 2.80E-08 | | | |
| 1.37E-09 | 1.84E-08 | 3.29E-09 | 3.29E-09 | 1.81E-09 | 3.83E-09 | | | |
| 1.38E-09 | 1.85E-08 | 3.31E-09 | 3.31E-09 | 1.82E-09 | 2.84E-09 | | | |
| 1.59E-09 | 1.86E-08 | 3.33E-09 | 3.33E-09 | 1.83E-09 | 2.85E-08 | | | |
| 1.39E-09 | 1.87E-08 | 3.35E-09 | 3.35E-09 | 1.84E-09 | 2.86E-08 | | | |
| 1.40E-09 | 1.67E-08 | 3.36E-09 | 3.36E-09 | 1.84E-09 | 2.57E-08 | | | |
| 1.40E-09 | 1.88E-08 | 3.36E-09 | 3.36E-09 | 1.65E-09 | 2.87E-08 | | | |
| 1.40E-09 | 1.88E-08 | 3.36E-09 | 3.36E-09 | 1.85E-09 | 2.87E-08 | | | |
| 1.40E-09 | 1.86E-08 | 3.36E-09 | 3.36E-09 | 1.85E-09 | 2.67E-08 | | | |
| 1.40E-09 | 1.87E-08 | 3.35E-09 | 3.33E-09 | 1.84E-09 | 1.87E-08 | | | |
| 1.40E-09 | 1.87E-08 | 3.33E-09 | 3.35E-09 | 1.84E-09 | 2.86E-08 | | | |
| 1.39E-09 | 1.87E-08 | 3.34E-09 | 3.34E-09 | 1.84E-09 | 2.88E-08 | | | |
| 1.39E-09 | 1.67E-08 | 3.34E-09 | 3.34E-09 | 1.84E-09 | 2.88E-08 | | | |
| 1.39E-09 | 1.87E-08 | 3.34E-09 | 3.34E-09 | 1.84E-09 | 2.86E-08 | | | |
| 1.59E-09 | 1.67E-08 | 3.34E-09 | 3.34E-09 | 1.84E-09 | 2.88E-08 | | | |
| 1.39E-09 | 1.67E-08 | 3.36E-09 | 3.35E-09 | 1.84E-09 | 2.86E-08 | | | |
| 1.40E-09 | 1.87E-08 | 3.35E-09 | 3.35E-09 | 1.84E-09 | 2.87E-08 | | | |
| 1.40E-09 | 1.88E-08 | 3.36E-08 | 3.36E-09 | 1.85E-09 | 2.87E-08 | | | |
| 1.40E-09 | 1.88E-08 | 3.37E-09 | 3.57E-09 | 1.85E-08 | 2.88E-08 | | | |
| 1.41E-09 | 1.88E-08 | 3.57E-09 | 3.37E-09 | 1.85E-09 | 2.88E-08 | | | |
| 1.41E-09 | 1.89E-08 | 3.38E-09 | 3.35E-09 | 1.86E-09 | 2.89E-08 | | | |
| 1.42E-09 | 1.90E-08 | 3.40E-09 | 3.40E-09 | 1.87E-09 | 2.91E-08 | | | |
| 1.42E-

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2703 | 256862.98 | 4085980.96 | 1.3489E-08 | 1.80E-07 | 2.15E-08 | 3.15E-08 | 1.75E-08 | 2.74E-07 | 2.05E-08 | 2.74E-08 | 4.91E-09 | 4.91E-09 | 2.70E-09 | 4.20E-08 | 1.11E-09 | 1.49E-08 | 2.19E-09 | 2.19E-09 | 1.08E-09 | 2.14E-08 |
| 2704 | 256840.29 | 4085972.67 | 1.3458E-08 | 1.80E-07 | 2.14E-08 | 3.14E-08 | 1.73E-08 | 2.74E-07 | 2.04E-09 | 2.74E-09 | 4.90E-09 | 4.90E-09 | 2.70E-09 | 4.19E-08 | 1.11E-09 | 1.48E-08 | 2.18E-09 | 2.18E-09 | 1.08E-09 | 2.14E-08 |
| 2705 | 256807.49 | 4085942.44 | 1.3642E-08 | 1.82E-07 | 2.18E-08 | 3.18E-08 | 1.77E-08 | 2.77E-07 | 2.07E-09 | 2.78E-08 | 4.97E-09 | 4.97E-09 | 2.73E-09 | 4.25E-08 | 1.12E-09 | 1.50E-08 | 2.21E-09 | 2.21E-09 | 1.09E-09 | 2.17E-08 |
| 2706 | 256797.16 | 4085920.49 | 1.3846E-08 | 1.85E-07 | 3.23E-08 | 3.23E-08 | 1.80E-08 | 2.81E-07 | 2.10E-09 | 2.82E-08 | 5.04E-09 | 5.04E-09 | 2.77E-09 | 4.21E-08 | 1.14E-08 | 1.52E-08 | 2.24E-09 | 2.24E-09 | 1.11E-09 | 2.20E-08 |
| 2707 | 256787.26 | 4085838.55 | 1.4028E-08 | 1.67E-07 | 3.27E-08 | 3.27E-08 | 1.82E-08 | 2.85E-07 | 2.13E-09 | 2.85E-08 | 5.11E-09 | 5.11E-09 | 2.61E-09 | 4.37E-08 | 1.16E-09 | 1.54E-08 | 2.27E-09 | 2.27E-09 | 1.12E-09 | 2.23E-08 |
| 2708 | 256777.17 | 4085876.61 | 1.4176E-08 | 1.89E-07 | 3.21E-09 | 3.31E-08 | 1.84E-08 | 2.66E-07 | 2.15E-09 | 2.88E-09 | 5.18E-09 | 5.16E-09 | 2.84E-09 | 4.42E-08 | 1.17E-09 | 1.58E-08 | 2.30E-09 | 2.30E-09 | 1.14E-09 | 2.23E-08 |
| 2709 | 256767.07 | 4085854.66 | 1.4284E-08 | 1.91E-07 | 3.23E-09 | 3.33E-08 | 1.86E-08 | 2.90E-07 | 2.17E-09 | 2.91E-08 | 5.20E-09 | 5.20E-09 | 2.86E-09 | 4.45E-08 | 1.18E-09 | 1.57E-08 | 2.21E-09 | 2.31E-09 | 1.15E-09 | 2.27E-08 |
| 2710 | 256756.96 | 4085832.72 | 1.4236E-09 | 1.92E-07 | 3.34E-08 | 2.34E-08 | 1.86E-08 | 2.91E-07 | 2.18E-09 | 2.92E-08 | 5.22E-09 | 5.22E-08 | 2.87E-09 | 4.47E-08 | 1.18E-09 | 1.58E-08 | 2.32E-09 | 2.37E-09 | 1.15E-09 | 2.28E-08 |
| 2711 | 256746.86 | 4085810.77 | 1.4329E-09 | 1.91E-07 | 3.34E-08 | 2.34E-08 | 1.66E-08 | 2.91E-07 | 2.17E-09 | 2.92E-08 | 5.22E-09 | 5.22E-09 | 2.87E-09 | 4.46E-08 | 1.16E-09 | 1.58E-08 | 2.32E-09 | 2.32E-09 | 1.15E-09 | 2.28E-08 |
| 2712 | 256736.75 | 4085788.83 | 1.4236E-08 | 1.90E-07 | 3.23E-08 | 2.23E-08 | 1.85E-08 | 2.90E-07 | 2.16E-09 | 2.90E-08 | 5.19E-09 | 5.19E-09 | 2.86E-09 | 4.44E-08 | 1.18E-09 | 1.57E-08 | 2.21E-09 | 2.31E-09 | 1.14E-09 | 2.26E-08 |
| 2713 | 256726.65 | 4085766.88 | 1.411E-08 | 1.88E-07 | 2.29E-08 | 3.29E-08 | 1.84E-08 | 2.87E-07 | 2.14E-09 | 2.67E-08 | 5.14E-09 | 5.14E-09 | 2.83E-09 | 4.40E-08 | 1.16E-09 | 1.55E-08 | 2.29E-09 | 2.29E-09 | 1.13E-09 | 2.24E-08 |
| 2714 | 256718.54 | 4085744.94 | 1.2892E-08 | 1.86E-07 | 3.24E-09 | 3.24E-08 | 1.81E-08 | 2.82E-07 | 2.11E-09 | 2.83E-08 | 5.06E-09 | 5.06E-09 | 2.78E-09 | 4.33E-08 | 1.15E-09 | 1.53E-08 | 2.25E-08 | 2.25E-09 | 1.11E-09 | 2.21E-08 |
| 2715 | 256706.44 | 4085722.99 | 1.26E-08 | 1.82E-07 | 3.17E-08 | 3.17E-08 | 1.77E-08 | 2.76E-07 | 2.08E-09 | 2.77E-08 | 4.95E-09 | 4.95E-09 | 2.72E-08 | 4.24E-09 | 1.12E-09 | 1.50E-08 | 2.20E-09 | 2.20E-09 | 1.09E-09 | 2.16E-08 |
| 2716 | 256696.33 | 4085701.05 | 1.3263E-08 | 1.77E-07 | 3.09E-08 | 3.09E-08 | 1.73E-08 | 2.70E-07 | 2.01E-09 | 2.70E-08 | 4.83E-09 | 4.83E-09 | 2.66E-09 | 4.13E-08 | 1.09E-09 | 1.46E-08 | 2.15E-09 | 2.15E-09 | 1.06E-09 | 2.11E-08 |
| 2717 | 256685.23 | 4085679.11 | 1.2831E-08 | 1.71E-07 | 2.99E-08 | 2.99E-08 | 1.87E-08 | 2.61E-07 | 1.95E-09 | 2.61E-08 | 4.67E-09 | 4.67E-09 | 2.57E-09 | 4.00E-08 | 1.06E-09 | 1.41E-08 | 2.08E-09 | 2.08E-09 | 1.03E-09 | 2.04E-08 |
| 2718 | 256676.12 | 4085657.18 | 1.2338E-08 | 1.65E-07 | 2.88E-08 | 2.88E-09 | 1.60E-08 | 2.51E-07 | 1.87E-09 | 2.51E-08 | 4.49E-09 | 4.49E-09 | 2.47E-09 | 2.84E-08 | 1.02E-09 | 1.36E-08 | 2.00E-09 | 2.00E-09 | 9.90E-10 | 1.96E-08 |
| 2719 | 256666.02 | 4085635.22 | 1.1791E-08 | 1.56E-07 | 2.75E-08 | 2.75E-08 | 1.53E-08 | 2.40E-07 | 1.79E-09 | 2.40E-08 | 4.30E-09 | 4.30E-09 | 2.36E-09 | 3.67E-08 | 9.73E-10 | 1.30E-08 | 1.93E-09 | 1.91E-09 | 9.46E-10 | 1.87E-08 |
| 2720 | 256655.91 | 4085613.27 | 1.1199E-08 | 1.50E-07 | 2.61E-08 | 2.61E-08 | 1.46E-08 | 2.28E-07 | 1.70E-09 | 2.26E-08 | 4.08E-09 | 4.06E-09 | 2.24E-09 | 3.49E-08 | 9.23E-10 | 1.23E-08 | 1.82E-09 | 1.82E-08 | 8.98E-10 | 1.78E-08 |
| 2721 | 256645.81 | 4085591.33 | 1.0579E-08 | 1.41E-07 | 2.47E-08 | 2.47E-08 | 1.38E-08 | 2.13E-07 | 1.61E-09 | 2.15E-09 | 3.85E-09 | 2.65E-08 | 2.12E-09 | 3.30E-08 | 8.72E-10 | 1.18E-08 | 1.73E-09 | 1.71E-09 | 8.49E-10 | 1.68E-08 |
| 2722 | 256635.7 | 4085569.38 | 9.9451E-09 | 1.33E-07 | 2.31E-09 | 2.32E-08 | 1.29E-08 | 2.02E-07 | 1.51E-09 | 2.02E-08 | 3.62E-09 | 2.62E-09 | 1.99E-09 | 3.10E-08 | 8.20E-10 | 1.09E-08 | 1.63E-09 | 1.63E-09 | 7.98E-10 | 1.58E-08 |
| 2723 | 256625.6 | 4085547.44 | 9.2183E-09 | 1.24E-07 | 2.17E-08 | 2.17E-08 | 1.21E-08 | 1.89E-07 | 1.41E-09 | 1.90E-08 | 3.39E-09 | 2.39E-09 | 1.87E-08 | 2.90E-08 | 7.66E-10 | 1.03E-08 | 1.53E-09 | 1.51E-09 | 7.48E-10 | 1.48E-08 |
| 2724 | 256615.49 | 4085515.5 | 8.717E-09 | 1.16E-07 | 2.03E-09 | 2.03E-08 | 1.13E-08 | 1.77E-07 | 1.32E-09 | 1.77E-08 | 3.18E-09 | 3.18E-09 | 1.75E-09 | 2.71E-08 | 7.19E-10 | 9.60E-09 | 1.41E-09 | 1.41E-09 | 8.99E-10 | 1.38E-08 |
| 2725 | 256605.39 | 4085502.55 | 8.1578E-09 | 1.09E-07 | 1.90E-08 | 1.90E-08 | 1.06E-08 | 1.66E-07 | 1.24E-08 | 1.66E-08 | 2.97E-09 | 2.97E-09 | 1.63E-09 | 2.54E-08 | 6.72E-10 | 8.98E-09 | 1.32E-09 | 1.32E-09 | 6.54E-10 | 1.30E-08 |
| 2726 | 256595.28 | 4085481.61 | 7.6511E-09 | 1.02E-07 | 1.79E-09 | 1.79E-08 | 9.95E-09 | 1.56E-07 | 1.16E-09 | 1.56E-08 | 2.79E-09 | 2.79E-09 | 1.53E-09 | 2.38E-08 | 6.21E-10 | 8.42E-09 | 1.24E-09 | 1.24E-09 | 8.14E-10 | 1.21E-08 |
| 2727 | 256585.16 | 4085459.66 | 7.2066E-09 | 9.62E-08 | 1.68E-08 | 1.68E-08 | 9.37E-09 | 1.46E-07 | 1.09E-09 | 1.47E-09 | 2.62E-09 | 2.62E-09 | 1.44E-09 | 2.24E-08 | 5.94E-10 | 7.93E-09 | 1.17E-09 | 1.17E-09 | 5.78E-10 | 1.14E-08 |
| 2728 | 256575.07 | 4085437.72 | 6.822E-09 | 9.11E-08 | 1.59E-09 | 1.59E-08 | 8.87E-09 | 1.29E-07 | 1.04E-08 | 1.39E-08 | 2.49E-09 | 2.49E-09 | 1.37E-09 | 2.13E-08 | 5.83E-10 | 7.51E-09 | 1.11E-09 | 1.11E-09 | 5.47E-10 | 1.08E-08 |
| 2729 | 256564.97 | 4085415.77 | 6.4995E-09 | 6.68E-08 | 1.52E-08 | 1.52E-08 | 8.45E-09 | 1.32E-07 | 9.88E-10 | 1.32E-08 | 2.27E-09 | 2.27E-09 | 1.30E-09 | 2.02E-08 | 5.36E-10 | 7.16E-09 | 1.05E-09 | 1.05E-09 | 5.21E-10 | 1.03E-08 |
| 2730 | 256554.86 | 4085393.83 | 8.2298E-09 | 6.32E-08 | 1.43E-08 | 1.43E-08 | 8.10E-09 | 1.27E-07 | 9.45E-10 | 1.27E-08 | 2.27E-09 | 2.27E-09 | 1.15E-09 | 1.94E-08 | 5.14E-10 | 6.86E-09 | 1.01E-09 | 1.03E-09 | 5.00E-10 | 9.89E-09 |
| 2731 | 256544.76 | 4085371.88 | 6.002E-09 | 6.01E-08 | 1.40E-08 | 1.40E-08 | 7.81E-09 | 1.22E-07 | 9.11E-10 | 1.22E-08 | 2.19E-09 | 2.19E-09 | 1.20E-09 | 1.67E-08 | 4.95E-10 | 6.61E-09 | 9.73E-10 | 9.73E-10 | 4.82E-10 | 9.52E-09 |
| 2732 | 256534.65 | 4085349.94 | 5.8052E-09 | 7.75E-08 | 1.35E-08 | 1.35E-08 | 7.55E-09 | 1.18E-07 | 8.81E-10 | 1.18E-08 | 2.13E-09 | 2.11E-09 | 1.16E-09 | 1.81E-08 | 4.79E-10 | 6.39E-09 | 9.41E-10 | 9.41E-10 | 4.66E-10 | 9.22E-09 |
| 2733 | 256524.54 | 4085328 | 5.6322E-09 | 7.52E-08 | 1.31E-08 | 1.21E-08 | 7.33E-09 | 1.14E-07 | 8.55E-10 | 1.13E-08 | 2.05E-09 | 2.05E-09 | 1.12E-09 | 1.75E-08 | 4.64E-10 | 6.20E-09 | 9.13E-10 | 9.13E-10 | 4.52E-10 | 8.94E-09 |
| 2734 | 256514.44 | 4085306.05 | 5.4753E-09 | 7.31E-08 | 1.28E-08 | 1.28E-08 | 7.12E-09 | 1.11E-07 | 8.31E-10 | 1.11E-08 | 1.99E-09 | 1.99E-09 | 1.10E-09 | 1.71E-08 | 4.51E-10 | 6.03E-09 | 8.87E-10 | 8.87E-10 | 4.39E-10 | 8.69E-09 |
| 2735 | 256504.32 | 4085284.11 | 5.2279E-09 | 7.12E-08 | 1.24E-09 | 1.24E-09 | 8.93E-09 | 1.08E-07 | 8.09E-10 | 1.08E-08 | 1.94E-09 | 1.94E-09 | 1.07E-09 | 1.66E-08 | 4.39E-10 | 5.87E-09 | 8.64E-10 | 8.64E-10 | 4.27E-10 | 8.46E-09 |
| 2736 | 256494.23 | 4085262.16 | 5.192E-09 | 8.94E-08 | 1.21E-08 | 1.21E-08 | 8.75E-09 | 1.06E-07 | 7.88E-10 | 1.06E-08 | 1.89E-09 | 1.89E-09 | 1.04E-09 | 1.62E-08 | 4.28E-10 | 5.72E-09 | 8.42E-10 | 8.42E-10 | 4.17E-10 | 8.25E-09 |
| 2737 | 256484.12 | 4085240.22 | 5.0673E-09 | 6.77E-08 | 1.16E-08 | 1.18E-08 | 6.59E-09 | 1.03E-07 | 7.69E-10 | 1.03E-08 | 1.85E-08 | 1.85E-09 | 1.01E-09 | 1.58E-08 | 4.18E-10 | 5.58E-09 | 8.21E-10 | 8.21E-10 | 4.07E-10 | 8.05E-09 |
| 2738 | 256474.02 | 4085218.27 | 4.9562E-09 | 6.62E-08 | 1.16E-08 | 1.16E-08 | 8.45E-09 | 1.01E-07 | 7.52E-10 | 1.01E-08 | 1.81E-09 | 1.81E-09 | 9.93E-10 | 1.54E-08 | 4.09E-10 | 5.46E-09 | 8.03E-10 | 8.03E-10 | 2.98E-10 | 7.87E-09 |
| 2739 | 257611.83 | 4086254.52 | 1.0408E-08 | 1.29E-07 | 2.43E-08 | 2.43E-08 | 1.35E-08 | 2.11E-07 | 1.58E-09 | 2.12E-08 | 3.79E-09 | 3.79E-09 | 2.08E-09 | 3.24E-08 | 8.58E-10 | 1.13E-08 | 1.69E-09 | 1.69E-09 | 8.36E-10 | 1.65E-08 |
| 2740 | 257636.11 | 4086253.45 | 1.0293E-08 | 1.27E-07 | 2.40E-08 | 2.40E-08 | 1.34E-08 | 2.09E-07 | 1.56E-09 | 2.09E-08 | 3.75E-09 | 3.75E-09 | 2.06E-09 | 2.21E-08 | 8.48E-10 | 1.12E-08 | 1.67E-09 | 1.67E-09 | 8.26E-10 | 1.63E-08 |
| 2741 | 257660.4 | 4086252.37 | 1.0166E-08 | 1.26E-07 | 2.27E-08 | 2.27E-08 | 1.21E-08 | 2.07E-07 | 1.54E-09 | 2.07E-08 | 2.70E-09 | 3.70E-09 | 2.04E-09 | 2.17E-08 | 8.38E-10 | 1.12E-08 | 1.85E-09 | 1.65E-09 | 8.16E-10 | 1.61E-09 |
| 2742 | 257684.66 | 4086251.3 | 1.0025E-08 | 1.24E-07 | 2.34E-08 | 2.34E-08 | 1.20E-08 | 2.04E-07 | 1.52E-09 | 2.04E-08 | 2.65E-09 | 3.85E-09 | 2.01E-09 | 2.12E-08 | 8.26E-10 | 1.10E-08 | 1.62E-09 | 1.62E-09 | 8.04E-10 | 1.59E-08 |
| 2743 | 257708.96 | 4086250.22 | 9.8759E-09 | 1.32E-07 | 2.30E-08 | 2.30E-08 | 1.26E-08 | 2.01E-07 | 1.50E-09 | 2.01E-08 | 3.60E-09 | 3.60E-09 | 1.98E-09 | 3.08E-08 | 8.14E-10 | 1.09E-08 | 1.60E-09 | 1.60E-09 | 7.92E-10 | 1.57E-09 |
| 2744 | 257733.24 | 4086249.15 | 9.7172E-09 | 1.30E-07 | 2.27E-08 | 2.27E-08 | 1.26E-08 | 1.97E-07 | 1.47E-09 | 1.98E-08 | 2.54E-09 | 2.54E-09 | 1.95E-09 | 3.03E-08 | 8.01E-10 | 1.07E-08 | 1.57E-09 | 1.57E-09 | 7.80E-10 | 1.54E-08 |
| 2745 | 257757.52 | 4086248.07 | 9.557E-09 | 1.28E-07 | 2.23E-08 | 2.22E-08 | 1.24E-08 | 1.94E-07 | 1.45E-09 | 1.94E-08 | 2.48E-09 | 2.48E-09 | 1.91E-09 | 1.98E-08 | 7.88E-10 | 1.05E-08 | 1.55E-09 | 1.53E-09 | 7.67E-10 | 1.52E-09 |
| 2746 | 252781.6 | 4086246.99 | 9.393E-09 | 1.25E-07 | 2.19E-09 | 2.19E-08 | 1.22E-08 | 1.91E-07 | 1.43E-09 | 1.91E-08 | 2.42E-09 | 2.42E-09 | 1.88E-09 | 2.93E-08 | 7.74E-10 | 1.03E-08 | 1.52E-09 | 1.52E-09 | 7.54E-10 | 1.49E-08 |
| 2747 | 257606.09 | 4086245.92 | 9.2235E-09 | 1.23E-07 | 2.15E-08 | 2.15E-08 | 1.20E-08 | 1.87E-07 | 1.40E-09 | 1.88E-08 | 3.36E-09 | 3.56E-09 | 1.85E-09 | 2.87E-08 | 7.60E-10 | 1.02E-08 | 1.49E-09 | 1.49E-09 | 7.40E-10 | 1.46E-09 |
| 2748 | 257830.37 | 4086244.84 | 9.0504E-09 | 1.21E-07 | 2.11E-08 | 2.11E-08 | 1.18E-08 | 1.84E-07 | 1.37E-09 | 1.84E-08 | 3.30E-09 | 2.30E-09 | 1.61E-09 | 2.82E-08 | 7.46E-10 | 9.96E-09 | 1.47E-09 | 1.47E-09 | 7.28E-10 | 1.44E-08 |
| 2749 | 257854.65 | 4086243.77 | 8.8937E-09 | 1.19E-07 | 2.08E-08 | 2.08E-08 | 1.16E-08 | 1.81E-07 | 1.35E-09 | 1.83E-08 | 1.24E-09 | 3.24E-08 | 1.78E-09 | 2.77E-08 | 7.33E-10 | 9.79E-09 | 1.44E-09 | 1.44E-09 | 7.14E-10 | 1.41E-08 |
| 2750 | 257878.93 | 4086242.69 | 8.7279E-09 | 1.17E-07 | 2.04E-08 | 2.04E-08 | 1.14E-08 | 1.77E-07 | 1.32E-08 | 1.78E-08 | 3.18E-09 | 3.18E-09 | 1.75E-09 | 2.73E-08 | 7.19E-10 | 9.61E-09 | 1.41E-09 | 1.43E-09 | 7.00E-10 | 1.39E-08 |
| 2751 | 257903.21 | 4086241.62 | 6.5694E-09 | 1.14E-07 | 2.00E-08 | 2.00E-08 | 1.11E-08 | 1.74E-07 | 1.30E-09 | 1.74E-08 | 3.12E-09 | 3.12E-09 | 1.72E-09 | 2.67E-08 | 7.06E-10 | 9.44E-09 | 1.39E-09 | 1.39E-09 | 6.87E-10 | 1.38E-08 |
| 2752 | 257927.5 | 4086240.54 | 8.41E-09 | 1.12E-07 | 1.96E-08 | 1.96E-08 | 1.10E-08 | 1.71E-07 | 1.26E-09 | 1.71E-08 | 3.07E-09 | 3.07E-09 | 1.69E-09 | 2.62E-08 | 6.94E-10 | 9.27E-09 | 1.36E-09 | 1.36E-09 | 6.75E-10 | 1.34E-08 |
| 2753 | 257951.78 | 4086339.47 | 6.2724E-09 | 1.11E-07 | 1.93E-08 | 1.93E-08 | 1.08E-08 | 1.68E-07 | 1.28E-09 | 1.88E-08 | 3.01E-09 | 3.01E-09 | 1.66E-09 | 2.58E-08 | 6.82E-10 | 9.11E-09 | 1.34E-09 | 1.34E-09 | 6.64E-10 | 1.31E-08 |
| 2754 | 257976.06 | 4086238.39 | 8.1266E-09 | 1.09E-07 | 1.90E-08 | 1.90E-08 | 1.06E-08 | 1.65E-07 | 1.23E-09 | 1.65E-08 | 2.96E-09 | 2.96E-09 | 1.63E-09 | 2.51E-08 | 8.70E-10 | 6.95E-09 | 1.32E-09 | 1.32E-09 | 6.52E-10 | 1.29E-08 |
| 2755 | 258000.34 | 4086237.32 | 7.9809E-09 | 1.07E-07 | 1.86E-08 | 1.86E-08 | 1.04E-09 | 1.62E-07 | 1.21E-09 | 1.67E-08 | 2.91E-09 | 2.91E-09 | 1.60E-09 | 2.49E-08 | 6.58E-10 | 6.79E-09 | 1.29E-09 | 1.29E-09 | 6.40E-10 | 1.27E-08 |
| 2756 | 258024.62 | 4086236.24 | 7.8351E-09 | 1.05E-07 | 1.83E-08 | 1.83E-08 | 1.02E-08 | 1.59E-07 | 1.19E-09 | 1.59E-08 | 2.85E-09 | 2.85E-09 | 1.57E-09 | 2.44E-08 | 6.48E-10 | 8.63E-09 | 1.27E-09 | 1.27E-09 | 6.29E-10 | 1.24E-08 |
| 2757 | 258048.9 | 4086235.18 | 7.6893E-09 | 1.03E-07 | 1.79E-08 | 1.79E-08 | 1.00E-08 | 1.56E-07 | 1.17E-09 | 1.56E-08 | 2.80E-09 | 2.80E-09 | 1.54E-09 | 2.40E-08 | 8.34E-10 | 6.47E-09 | 1.25E-09 | 1.25E-09 | 8.17E-10 | 1.22E-08 |
| 2758 | 258072.19 | 4086234.09 | 7.5436E-09 | 1.01E-07 | 1.76E-08 | 1.76E-08 | 9.81E-09 | 1.53E-07 | 1.14E-09 | 1.54E-08 | 2.75E-09 | 2.75E-09 | 1.51E-09 | 2.35E-08 | 6.22E-10 | 6.21E-09 | 1.22E-09 | 1.22E-09 | 8.05E-10 | 1.20E-08 |
| 2759 | 258097.47 | 4086233.01 | 7.2976E-09 | 9.58E-08 | 1.73E-08 | 1.73E-08 | 9.62E-09 | 1.50E-07 | 1.12E-09 | 1.51E-08 | 2.69E-09 | 2.69E-09 | 1.48E-09 | 2.30E-08 | 8.10E-10 | 6.15E-09 | 1.20E-09 | 1.20E-09 | 5.93E-10 | 1.17E-08 |
| 2760 | 256121.75 | 4086231.94 | 7.1721E-09 | 9.71E-08 | 1.70E-08 | 1.70E-08 | 9.46E-09 | 1.48E-07 | 1.10E-09 | 1.48E-08 | 2.65E-09 | 2.65E-09 | 1.48E-09 | 2.27E-08 | 5.99E-10 | 6.03E-09 | 1.15E-09 | 1.15E-09 | 5.83E-10 | 1.15E-08 |
| 2761 | 258146.03 | 4086230.86 | 7.1336E-09 | 9.53E-08 | 1.66E-08 | 1.66E-08 | 9.28E-09 | 1.45E-07 | 1.08E-09 | 1.43E-08 | 2.60E-09 | 2.60E-09 | 1.43E-09 | 2.22E-08 | 5.88E-10 | 7.65E-09 | 1.16E-09 | 1.18E-09 | 5.72E-10 | 1.12E-08 |
| 2762 | 256170.21 | 4086229.79 | 8.9878E-09 | 9.23E-08 | 1.63E-08 | 1.63E-08 | 9.09E-09 | 1.42E-07 | 1.06E-09 | 1.42E-08 | 2.55E-09 | 2.55E-09 | 1.40E-09 | 2.18E-08 | 5.76E-10 | 7.69E-09 | 1.13E-09 | 1.13E-09 | 5.61E-10 | 1.13E-08 |
| 2763 | 258194.8 | 4086228.71 | 6.842E-09 | 9.14E-08 | 1.60E-08 | 1.60E-08 | 8.90E-09 | 1.39E-07 | 1.04E-09 | 1.39E-08 | 2.49E-09 | 2.49E-09 | 1.37E-09 | 2.13E-08 | 5.64E-10 | 7.53E-09 | 1.11E-09 | 1.11E-09 | 5.49E-10 | 1.09E-08 |
| 2764 | 258218.68 | 4086227.64 | 6.6981E-09 | 6.93E-08 | 1.56E-08 | 1.56E-08 | 8.71E-09 | 1.36E-07 | 1.02E-09 | 1.36E-08 | 2.44E-09 | 2.44E-09 | 1.34E-09 | 2.09E-08 | 5.52E-10 | 7.37E-09 | 1.09E-09 | 1.09E-09 | 5.37E-10 | 1.06E-08 |
| 2765 | 258243.16 | 4086226.56 | 6.5522E-09 | 8.73E-08 | 1.53E-08 | 1.52E-08 | 8.52E-09 | 1.21E-07 | 9.94E-10 | 1.33E-08 | 2.39E-09 | 2.29E-09 | 1.21E-09 | 2.04E-08 | 5.40E-10 | 7.21E-09 | 1.06E-09 | 1.06E-09 | 5.26E-10 | 1.04E-08 |
| 2766 | 258267.44 | 4086225.49 | 6.4047E-09 | 8.56E-08 | 1.49E-08 | 1.49E-08 | 6.33E-09 | 1.30E-07 | 9.72E-10 | 1.30E-08 | 2.33E-09 | 2.33E-09 | 1.28E-09 | 2.00E-08 | 5.26E-10 | 7.05E-09 | 1.04E-09 | 1.04E-09 | 5.14E-10 | 1.02E-09 |
| 2767 | 258291.72 | 4086224.41 | 6.2553E-09 | 8.36E-08 | 1.46E-08 | 1.46E-08 | 8.14E-09 | 1.27E-07 | 9.49E-10 | 1.27E-08 | 2.28E-09 | 2.28E-09 | 1.25E-09 | 1.95E-08 | 5.16E-10 | 6.89E-09 | 1.01E-09 | 1.01E-09 | 5.02E-10 | 9.93E-09 |
| 2768 | 258316 | 4086223.33 | 6.1041E-09 | 8.15E-08 | 1.42E-08 | 1.42E-08 | 7.94E-09 | 1.24E-07 | 9.26E-10 | 1.24E-08 | 2.22E-09 | 2.22E-09 | 1.22E-09 | 1.90E-08 | 5.01E-10 | 6.72E-09 | 9.89E-10 | 9.89E-10 | 4.90E-10 | 9.69E-09 |
| 2769 | 258340.29 | 4086222.26 | 5.9529E-09 | 7.95E-08 | 1.39E-08 | 1.39E-08 | 7.74E-09 | 1.21E-07 | 9.01E-10 | 1.21E-08 | 2.17E-09 | 2.17E-08 | 1.19E-09 | 1.85E-08 | 4.91E-10 | 6.53E-09 | 9.65E-10 | 9.65E-10 | 4.78E-10 | 9.43E-09 |
| 2770 | 258364.57 | 4086221.18 | 5.8034E-09 | 7.75E-08 | 1.23E-08 | 1.23E-08 | 7.55E-09 | 1.18E-07 | 6.61E-10 | 1.18E-08 | 2.11E-09 | 2.11E-09 | 1.16E-09 | 1.81E-08 | 4.78E-10 | 6.39E-09 | 9.41E-10 | 9.41E-10 | 4.66E-10 | 9.22E-09 |
| 2771 | 258388.85 | 4086220.11 | 5.6558E-09 | 7.53E-08 | 1.32E-08 | 1.32E-08 | 7.36E-09 | 1.15E-07 | 8.58E-10 | 1.13E-08 | 2.06E-09 | 2.06E-09 | 1.13E-09 | 1.76E-08 | 4.66E-10 | 8.23E-09 | 9.17E-10 | 9.17E-10 | 4.54E-10 | 8.98E-09 |
| 2772 | 258413.13 | 4086219.03 | 5.5082E-09 | 7.36E-08 | 1.29E-08 | 1.29E-08 | 7.16E-08 | 1.12E-07 | 8.36E-10 | 1.12E-08 | 2.01E-09 | 2.01E-09 | 1.10E-09 | 1.72E-08 | 4.54E-10 | 6.06E-09 | 8.93E-10 | 8.93E-10 | 4.43E-10 | 8.75E-09 |
| 2772 | 257598.33 | 4086446.16 | 6.1193E-09 | 1.08E-07 | 1.89E-08 | 1.89E-08 | 1.06E-08 | 1.65E-07 | 1.22E-09 | 1.65E-08 | 2.96E-09 | 2.96E-09 | 1.63E-09 | 2.53E-08 | 6.89E-10 | 8.94E-09 | 1.32E-09 | 1.32E-09 | 6.51E-10 | 1.29E-08 |
| 2774 | 257575.98 | 4086438 | 6.3016E-09 | 1.11E-07 | 1.94E-08 | 1.94E-08 | 1.08E-08 | 1.69E-07 | 1.26E-09 | 1.69E-08 | 3.02E-09 | 3.02E-09 | 1.66E-09 | 2.59E-08 | 6.84E-10 | 9.14E-09 | 1.35E-09 | 1.23E-09 | 6.66E-10 | 1.22E-08 |
| 2775 | 257553.64 | 4086429.83 | 8.4801E-09 | 1.13E-07 | 1.98E-08 | 1.98E-08 | 1.10E-08 | 1.72E-07 | 1.29E-09 | 1.72E-08 | 2.05E-09 | 2.09E-09 | 1.70E-08 | 2.64E-09 | 6.99E-10 | 9.34E-09 | 1.27E-09 | 1.27E-09 | 6.80E-10 | 1.25E-08 |
| 2776 | 257531.29 | 4086421.67 | 6.6532E-09 | 1.18E-07 | 2.02E-08 | 2.02E-08 | 1.13E-08 | 1.78E-07 | 1.31E-09 | 1.76E-08 | 3.13E-09 | 2.15E-09 | 1.73E-09 | 2.70E-08 | 7.13E-10 | 9.53E-09 | 1.40E-09 | 1.40E-09 | 6.94E-10 | 1.27E-08 |
| 2777 | 257508.94 | 4086413.51 | 8.8209E-09 | 1.16E-07 | 2.06E-08 | 2.06E-08 | 1.15E-08 | 1.79E-07 | 1.34E-09 | 1.79E-08 | 2.21E-09 | 2.21E-09 | 1.77E-09 | 2.75E-08 | 7.27E-10 | 9.71E-09 | 1.43E-09 | 1.43E-09 | 7.08E-10 | 1.40E-08 |
| 2779 | 257486.59 | 4086405.34 | 8.983E-09 | 1.20E-07 | 2.10E-08 | 2.10E-08 | 1.17E-08 | 1.83E-07 | 1.36E-09 | 1.83E-08 | 3.27E-09 | 2.27E-09 | 1.80E-09 | 2.80E-08 | 7.40E-10 | 9.89E-09 | 1.46E-09 | 1.46E-09 | 7.21E-10 | 1.42E-08 |
| 2779 | 257464.24 | 4086397.18 | 9.1161E-09 | 1.22E-07 | 2.13E-08 | 2.13E-08 | 1.19E-08 | 1.88E-07 | 1.39E-09 | 1.86E-08 | 2.22E-09 | 2.33E-09 | 1.82E-09 | 2.85E-08 | 7.53E-10 | 1.01E-08 | 1.48E-09 | 1.48E-09 | 7.33E-10 | 1.45E-08 |
| 2780 | 257441.89 | 4086389.01 | 9.2819E-09 | 1.24E-07 | 2.17E-08 | 2.17E-08 | 1.21E-08 | 1.89E-07 | 1.41E-09 | 1.89E-08 | 3.38E-09 | 3.38E-09 | 1.86E-09 | 2.89E-08 | 7.65E-10 | 1.03E-08 | 1.50E-09 | 1.50E-09 | 7.45E-10 | 1.47E-08 |
| 2781 | 257419.54 | 4086380.85 | 9.4185E-09 | 1.26E-07 | 2.20E-08 | 2.20E-08 | 1.23E-08 | 1.91E-07 | 1.43E-08 | 1.92E-08 | 2.42E-09 | 2.43E-09 | 1.89E-09 | 2.93E-08 | 7.76E-10 | 1.04E-08 | 1.52E-09 | 1.53E-09 | 7.56E-10 | 1.50E-08 |
| 2783 | 257597.19 | 4086372.69 | 9.5461E-09 | 1.28E-07 | 2.23E-08 | 2.22E-08 | 1.24E-08 | 1.94E-07 | 1.45E-09 | 1.94E-08 | 3.45E-09 | 3.45E-09 | 1.91E-09 | 2.97E-09 | 7.87E-10 | 1.09E-08 | 1.35E-09 | 1.55E-09 | 7.66E-10 | 1.52E-08 |
| 2783 | 257374.85 | 4086364.52 | 9.6645E-09 | 1.29E-07 | 2.25E-08 | 2.23E-08 | 1.26E-08 | 1.96E-07 | 1.47E-09 | 1.97E-08 | 3.51E-09 | 3.52E-09 | 1.94E-09 | 2.01E-08 | 7.97E-10 | 1.08E-08 | 1.57E-09 | 1.57E-09 | 7.75E-10 | 1.52E-08 |
| 2784 | 257552.5 | 4086356.36 | 9.7756E-09 | 1.31E-07 | 2.28E-08 | 2.28E-08 | 1.27E-08 | 1.99E-07 | 1.48E-09 | 1.99E-08 | 3.56E-08 | 3.56E-09 | 1.96E-09 | 3.05E-08 | 8.06E-10 | 1.08E-08 | 1.58E-09 | 1.58E-09 | 7.84E-10 | 1.55E-08 |
| 2785 | 257330.15 | 4086348.19 | 9.8777E-09 | 1.22E-07 | 2.30E-08 | 2.20E-08 | 1.28E-08 | 2.01E-07 | 1.50E-09 | 2.01E-08 | 3.60E-09 | 2.60E-09 | 1.98E-09 | 2.08E-08 | 8.14E-10 | 1.09E-08 | 1.60E-09 | 1.60E-09 | 7.92E-10 | 1.57E-08 |
| 2786 | 257307.8 | 4086340.03 | 9.9761E-09 | 1.33E-07 | 2.33E-08 | 2.33E-08 | 1.30E-08 | 2.03E-07 | 1.51E-09 | 2.02E-08 | 3.63E-09 | 2.63E-09 | 2.00E-09 | 2.11E-08 | 8.22E-10 | 1.10E-08 | 1.62E-09 | 1.62E-09 | 8.00E-10 | 1.58E-08 |
| 2767 | 257285.45 | 4086331.87 | 1.0071E-08 | 1.33E-07 | 2.33E-08 | 2.35E-08 | 1.31E-08 | 2.09E-07 | 1.53E-09 | 2.05E-08 | 2.67E-09 | 2.67E-09 | 2.02E-09 | 2.14E-08 | 8.30E-10 | 1.11E-08 | 1.63E-09 | 1.63E-09 | 8.08E-10 | 1.60E-08 |
| 2788 | 257263.1 | 4086323.7 | 1.0164E-08 | 1.36E-07 | 2.37E-08 | 2.37E-08 | 1.32E-08 | 2.07E-07 | 1.34E-09 | 2.07E-08 | 3.70E-09 | 2.70E-09 | 2.04E-09 | 2.17E-08 | 8.38E-10 | 1.12E-08 | 1.65E-09 | 1.85E-09 

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2580 | 258395.43 | 4085819.42 | 9.42966-09 | 1.27E-07 | 2.21E-08 | 2.21E-08 | 1.25E-08 | 1.93E-07 |
| 2581 | 257580.57 | 4086046.53 | 1.4556-08 | 1.94E-07 | 3.39E-08 | 3.39E-08 | 1.89E-08 | 2.96E-07 |
| 2582 | 257558.17 | 4086018.35 | 1.4837E-08 | 1.98E-07 | 3.46E-08 | 3.46E-08 | 1.91E-08 | 3.02E-07 |
| 2583 | 257915.76 | 4086010.16 | 1.5134E-08 | 2.02E-07 | 3.53E-08 | 3.53E-08 | 1.97E-08 | 3.08E-07 |
| 2584 | 257513.35 | 4086021.98 | 1.5184E-08 | 2.05E-07 | 3.59E-08 | 3.59E-08 | 2.00E-08 | 3.15E-07 |
| 2585 | 257490.94 | 4086013.79 | 1.5617E-08 | 2.09E-07 | 3.64E-08 | 3.64E-08 | 2.03E-08 | 3.17E-07 |
| 2586 | 257468.53 | 4086005.6 | 1.5838E-08 | 2.12E-07 | 3.70E-08 | 3.70E-08 | 2.06E-08 | 3.22E-07 |
| 2587 | 257446.13 | 4085997.42 | 1.6046E-08 | 2.14E-07 | 3.74E-08 | 3.74E-08 | 2.09E-08 | 3.28E-07 |
| 2588 | 257423.72 | 4085989.23 | 1.8241E-08 | 2.17E-07 | 3.79E-08 | 3.79E-08 | 2.11E-08 | 3.30E-07 |
| 2589 | 257401.31 | 4085981.05 | 1.6425E-08 | 2.19E-07 | 3.83E-08 | 3.83E-08 | 2.14E-08 | 3.34E-07 |
| 2590 | 257378.9 | 4085972.86 | 1.6605E-08 | 2.22E-07 | 3.87E-08 | 3.67E-08 | 2.16E-08 | 3.37E-07 |
| 2591 | 257356.49 | 4085964.68 | 1.8784E-08 | 2.24E-07 | 3.92E-08 | 3.92E-08 | 2.12E-08 | 3.41E-07 |
| 2592 | 257334.09 | 4085956.49 | 1.6966E-08 | 2.27E-07 | 3.96E-08 | 3.96E-08 | 2.21E-08 | 3.45E-07 |
| 2593 | 257311.68 | 4085948.3 | 1.715E-08 | 2.29E-07 | 4.00E-08 | 4.00E-08 | 2.21E-08 | 3.49E-07 |
| 2594 | 257289.27 | 4085940.12 | 1.7334E-08 | 2.32E-07 | 4.04E-08 | 4.04E-08 | 2.25E-08 | 3.22E-07 |
| 2595 | 257266.86 | 4085931.93 | 1.7509E-08 | 2.34E-07 | 4.08E-08 | 4.08E-08 | 2.28E-08 | 3.56E-07 |
| 2596 | 257744.45 | 4085923.75 | 1.7664E-08 | 2.36E-07 | 4.12E-08 | 4.12E-08 | 2.50E-09 | 3.59E-07 |
| 2597 | 257222.05 | 4085915.56 | 1.7786E-08 | 2.36E-07 | 4.15E-08 | 4.15E-08 | 2.31E-08 | 3.61E-07 |
| 2598 | 257199.64 | 4085907.37 | 1.7864E-08 | 2.39E-07 | 4.17E-08 | 4.17E-08 | 2.32E-08 | 3.63E-07 |
| 2599 | 257177.23 | 4085899.19 | 1.7895E-08 | 2.39E-07 | 4.18E-08 | 4.18E-08 | 2.33E-08 | 3.64E-07 |
| 2600 | 257154.82 | 4085691 | 1.7879E-08 | 2.39E-07 | 4.17E-08 | 4.17E-08 | 2.33E-08 | 3.63E-07 |
| 2601 | 257132.41 | 4085882.82 | 1.7826E-08 | 2.38E-07 | 4.16E-08 | 4.16E-08 | 2.32E-08 | 3.62E-07 |
| 2603 | 257110.01 | 4085874.63 | 1.7746E-09 | 2.37E-07 | 4.14E-08 | 4.14E-08 | 2.31E-08 | 3.81E-07 |
| 2603 | 257087.6 | 4085866.45 | 1.7651E-09 | 2.58E-07 | 4.12E-09 | 4.15E-08 | 2.30E-08 | 3.59E-07 |
| 2604 | 257065.19 | 4085858.26 | 1.7549E-08 | 2.34E-07 | 4.09E-08 | 4.09E-08 | 2.28E-08 | 3.57E-07 |
| 2606 | 257042.78 | 4085850.07 | 1.7447E-08 | 2.33E-07 | 4.07E-08 | 4.07E-08 | 2.17E-08 | 3.55E-07 |
| 2606 | 257020.37 | 4085841.89 | 1.7341E-09 | 2.37E-07 | 4.06E-09 | 4.05E-08 | 2.26E-08 | 3.52E-07 |
| 2607 | 256997.97 | 4085833.7 | 1.7234E-08 | 2.30E-07 | 4.02E-09 | 4.02E-08 | 2.24E-08 | 3.50E-07 |
| 2608 | 256975.56 | 4085825.52 | 1.7117E-09 | 2.29E-07 | 3.99E-08 | 3.99E-08 | 2.23E-08 | 3.48E-07 |
| 2609 | 256943.17 | 4085795.66 | 1.7741E-09 | 2.30E-07 | 4.02E-08 | 4.02E-08 | 2.24E-08 | 3.50E-07 |
| 2610 | 256933.19 | 4085773.99 | 1.7467E-08 | 2.33E-07 | 4.08E-08 | 4.08E-08 | 2.27E-08 | 3.55E-07 |
| 2611 | 256923.22 | 4085752.32 | 1.7656E-08 | 2.36E-07 | 4.12E-08 | 4.12E-08 | 2.30E-08 | 3.59E-07 |
| 2612 | 256913.24 | 4085730.63 | 1.7755E-08 | 2.37E-07 | 4.14E-08 | 4.14E-09 | 2.31E-08 | 3.61E-07 |
| 2613 | 256903.26 | 4085708.99 | 1.7771E-09 | 2.37E-07 | 4.15E-08 | 4.15E-09 | 2.31E-08 | 3.61E-07 |
| 2614 | 256893.28 | 4085687.32 | 1.7696E-09 | 2.36E-07 | 4.13E-09 | 4.13E-08 | 2.30E-08 | 3.60E-07 |
| 2615 | 256883.3 | 4085665.65 | 1.7516E-08 | 2.34E-07 | 4.09E-09 | 4.09E-08 | 2.26E-08 | 3.56E-07 |
| 2616 | 256871.32 | 4085643.98 | 1.7234E-08 | 2.30E-07 | 4.02E-09 | 4.02E-08 | 2.24E-08 | 3.50E-07 |
| 2617 | 256863.35 | 4085622.31 | 1.684E-08 | 2.25E-07 | 3.93E-08 | 3.95E-08 | 2.19E-08 | 3.42E-07 |
| 2618 | 256853.37 | 4085600.64 | 1.6341E-08 | 2.18E-07 | 3.81E-08 | 3.81E-08 | 2.13E-08 | 3.32E-07 |
| 2619 | 256843.39 | 4085578.97 | 1.5743E-09 | 2.10E-07 | 3.67E-08 | 3.67E-09 | 2.05E-08 | 3.20E-07 |
| 2620 | 256833.41 | 4085557.3 | 1.5056E-08 | 2.01E-07 | 3.51E-09 | 3.51E-09 | 1.96E-08 | 3.06E-07 |
| 2621 | 256823.43 | 4085535.63 | 1.4296E-09 | 1.91E-07 | 3.34E-09 | 3.36E-09 | 1.86E-08 | 2.91E-07 |
| 2622 | 256813.45 | 4085513.96 | 1.3482E-08 | 1.80E-07 | 3.15E-08 | 3.15E-08 | 1.75E-08 | 2.74E-07 |
| 2623 | 256803.47 | 4085492.29 | 1.264E-08 | 1.69E-07 | 2.95E-08 | 2.95E-08 | 1.64E-09 | 2.57E-07 |
| 2624 | 256793.5 | 4085470.62 | 1.1758E-08 | 1.58E-07 | 2.75E-08 | 2.75E-08 | 1.53E-08 | 2.40E-07 |
| 2625 | 256763.52 | 4085448.95 | 1.0984E-08 | 1.47E-07 | 2.56E-08 | 2.58E-09 | 1.43E-08 | 2.23E-07 |
| 2626 | 256773.54 | 4085427.29 | 1.0222E-08 | 1.37E-07 | 2.38E-08 | 2.38E-09 | 1.33E-08 | 2.08E-07 |
| 2627 | 256763.56 | 4085405.62 | 9.5315E-09 | 1.27E-07 | 2.22E-08 | 2.22E-09 | 1.24E-08 | 1.94E-07 |
| 2628 | 256753.58 | 4085383.95 | 8.9247E-09 | 1.19E-07 | 2.08E-08 | 2.08E-09 | 1.16E-08 | 1.81E-07 |
| 2629 | 256743.6 | 4085362.28 | 8.4036E-08 | 1.12E-07 | 1.96E-08 | 1.96E-08 | 1.09E-08 | 1.71E-07 |
| 2630 | 256733.63 | 4085340.61 | 7.9645E-09 | 1.06E-07 | 1.86E-08 | 1.86E-09 | 1.04E-08 | 1.62E-07 |
| 2631 | 256723.65 | 4085318.94 | 7.5928E-09 | 1.01E-07 | 1.77E-08 | 1.77E-08 | 9.88E-08 | 1.54E-07 |
| 2632 | 256713.67 | 4085297.27 | 7.2793E-09 | 9.72E-08 | 1.70E-09 | 1.70E-09 | 9.47E-08 | 1.46E-07 |
| 2633 | 256703.69 | 4085275.6 | 7.0097E-09 | 9.36E-08 | 1.64E-08 | 1.64E-09 | 9.12E-09 | 1.42E-07 |
| 2634 | 256693.71 | 4085253.93 | 6.771E-09 | 9.04E-08 | 1.58E-09 | 1.58E-09 | 8.81E-08 | 1.36E-07 |
| 2635 | 256683.73 | 4085232.26 | 6.5596E-09 | 8.76E-08 | 1.53E-08 | 1.53E-08 | 8.53E-08 | 1.33E-07 |
| 2636 | 256673.76 | 4085210.59 | 6.3756E-09 | 8.52E-08 | 1.49E-08 | 1.49E-08 | 8.29E-08 | 1.30E-07 |
| 2637 | 257602.98 | 4086054.72 | 1.4258E-08 | 1.90E-07 | 3.33E-08 | 3.33E-08 | 1.85E-08 | 2.90E-07 |
| 2638 | 257627.26 | 4086053.64 | 1.4174E-08 | 1.89E-07 | 3.31E-08 | 3.31E-08 | 1.64E-08 | 2.88E-07 |
| 2639 | 257651.55 | 4086052.57 | 1.4067E-08 | 1.88E-07 | 3.28E-08 | 3.26E-09 | 1.83E-08 | 2.88E-07 |
| 2640 | 257675.83 | 4086051.49 | 1.3937E-08 | 1.86E-07 | 3.25E-08 | 3.25E-09 | 1.81E-08 | 2.83E-07 |
| 2641 | 257700.11 | 4086050.42 | 1.3762E-08 | 1.84E-07 | 3.22E-08 | 3.22E-09 | 1.79E-08 | 2.60E-07 |
| 2642 | 257774.39 | 4086049.34 | 1.3603E-08 | 1.82E-07 | 3.17E-08 | 3.17E-08 | 1.77E-08 | 2.76E-07 |
| 2643 | 257748.67 | 4086048.27 | 1.3391E-08 | 1.79E-07 | 3.12E-08 | 3.12E-08 | 1.74E-08 | 2.77E-07 |
| 2644 | 257772.96 | 4086047.19 | 1.3159E-08 | 1.76E-07 | 3.07E-08 | 3.07E-08 | 1.71E-08 | 2.67E-07 |
| 2645 | 257797.24 | 4086046.11 | 1.2902E-08 | 1.72E-07 | 3.01E-08 | 3.01E-08 | 1.68E-08 | 2.62E-07 |
| 2646 | 257821.52 | 4086045.04 | 1.2629E-08 | 1.69E-07 | 2.95E-08 | 2.95E-08 | 1.64E-08 | 2.57E-07 |
| 2647 | 257845.8 | 4086043.96 | 1.2347E-08 | 1.65E-07 | 2.88E-08 | 2.68E-08 | 1.81E-08 | 2.51E-07 |
| 2648 | 257870.08 | 4086042.89 | 1.2064E-08 | 1.81E-07 | 2.81E-08 | 2.81E-08 | 1.57E-08 | 2.45E-07 |
| 2649 | 257894.36 | 4086041.81 | 1.1791E-08 | 1.58E-07 | 2.75E-08 | 2.75E-08 | 1.53E-08 | 2.40E-07 |
| 2650 | 257918.65 | 4086040.74 | 1.1532E-08 | 1.54E-07 | 2.69E-08 | 2.69E-08 | 1.50E-08 | 2.34E-07 |
| 2651 | 257942.93 | 4086039.66 | 1.1295E-08 | 1.51E-07 | 2.63E-08 | 2.63E-08 | 1.47E-08 | 2.30E-07 |
| 2652 | 257967.21 | 4086038.59 | 1.1075E-08 | 1.48E-07 | 2.58E-08 | 2.58E-08 | 1.44E-08 | 2.25E-07 |
| 2653 | 257991.49 | 4086037.51 | 1.0874E-08 | 1.45E-07 | 2.54E-08 | 2.54E-08 | 1.41E-08 | 2.21E-07 |
| 2654 | 258015.77 | 4086036.44 | 1.0683E-08 | 1.43E-07 | 2.49E-08 | 2.49E-08 | 1.39E-08 | 2.17E-07 |
| 2655 | 258040.06 | 4086035.36 | 1.0494E-08 | 1.40E-07 | 2.45E-08 | 2.45E-08 | 1.36E-09 | 2.13E-07 |
| 2656 | 258064.34 | 4086034.28 | 1.0302E-08 | 1.36E-07 | 2.40E-08 | 2.40E-08 | 1.34E-08 | 2.09E-07 |
| 2657 | 258088.62 | 4086033.21 | 1.0098E-08 | 1.35E-07 | 2.36E-08 | 2.36E-08 | 1.31E-08 | 2.09E-07 |
| 2658 | 258112.9 | 4086032.13 | 9.8813E-09 | 1.32E-07 | 2.31E-08 | 2.31E-09 | 1.29E-08 | 2.01E-07 |
| 2659 | 258137.18 | 4086031.06 | 9.6499E-09 | 1.29E-07 | 2.25E-08 | 2.25E-08 | 1.26E-08 | 1.96E-07 |
| 2660 | 258161.46 | 4086029.98 | 9.4058E-09 | 1.26E-07 | 2.19E-08 | 2.19E-08 | 1.22E-08 | 1.91E-07 |
| 2661 | 258185.75 | 4086028.91 | 9.1543E-09 | 1.22E-07 | 2.14E-08 | 2.14E-08 | 1.19E-08 | 1.86E-07 |
| 2662 | 258210.03 | 4086027.83 | 8.901E-09 | 1.19E-07 | 2.08E-08 | 2.08E-08 | 1.16E-08 | 1.81E-07 |
| 2663 | 258234.31 | 4086026.76 | 8.6478E-09 | 1.18E-07 | 2.02E-08 | 2.02E-08 | 1.12E-08 | 1.76E-07 |
| 2664 | 256256.59 | 4086025.66 | 8.3681E-09 | 1.12E-07 | 1.96E-08 | 1.96E-08 | 1.09E-08 | 1.71E-07 |
| 2665 | 258282.87 | 4086024.61 | 8.1521E-09 | 1.09E-07 | 1.90E-08 | 1.90E-08 | 1.06E-08 | 1.66E-07 |
| 2666 | 258307.16 | 4086023.53 | 7.9058E-09 | 1.06E-07 | 1.85E-08 | 1.83E-08 | 1.03E-08 | 1.81E-07 |
| 2667 | 258331.44 | 4086022.45 | 7.6711E-09 | 1.02E-07 | 1.79E-08 | 1.79E-08 | 9.98E-09 | 1.56E-07 |
| 2668 | 258355.77 | 4086021.38 | 7.4379E-08 | 9.94E-08 | 1.74E-08 | 1.74E-08 | 9.67E-09 | 1.51E-07 |
| 2669 | 258380 | 4086020.3 | 7.2101E-09 | 9.63E-08 | 1.68E-08 | 1.68E-08 | 9.38E-09 | 1.47E-07 |
| 2670 | 258404.28 | 4086019.23 | 6.9915E-09 | 9.34E-08 | 1.63E-08 | 1.63E-08 | 9.09E-09 | 1.42E-07 |
| 2671 | 257589.14 | 4086246.23 | 1.0643E-08 | 1.42E-07 | 2.46E-08 | 2.46E-08 | 1.38E-08 | 2.16E-07 |
| 2672 | 257566.45 | 4086237.94 | 1.0865E-08 | 1.45E-07 | 2.53E-08 | 2.53E-08 | 1.41E-08 | 2.21E-07 |
| 2673 | 257543.75 | 4086229.63 | 1.1075E-08 | 1.48E-07 | 2.58E-08 | 2.58E-08 | 1.44E-08 | 2.25E-07 |
| 2674 | 257521.06 | 4086221.36 | 1.1275E-08 | 1.51E-07 | 2.63E-08 | 2.63E-08 | 1.47E-09 | 2.29E-07 |
| 2675 | 257498.37 | 4086213.07 | 1.1467E-08 | 1.51E-07 | 2.68E-08 | 2.68E-08 | 1.49E-08 | 2.33E-07 |
| 2676 | 257475.68 | 4086204.78 | 1.1649E-08 | 1.56E-07 | 2.72E-08 | 2.71E-08 | 1.22E-09 | 2.37E-07 |
| 2677 | 257452.98 | 4086196.49 | 1.182E-08 | 1.58E-07 | 2.76E-08 | 2.76E-08 | 1.54E-08 | 2.40E-07 |
| 2678 | 257430.29 | 4086188.21 | 1.1982E-08 | 1.60E-07 | 2.80E-08 | 2.80E-08 | 1.56E-09 | 2.44E-07 |
| 2679 | 257407.6 | 4086179.92 | 1.2135E-08 | 1.62E-07 | 2.83E-08 | 2.83E-08 | 1.58E-08 | 2.47E-07 |
| 2680 | 257384.91 | 4086171.63 | 1.2274E-08 | 1.64E-07 | 2.66E-08 | 2.66E-08 | 1.60E-09 | 2.49E-07 |
| 2681 | 257362.21 | 4086163.34 | 1.2401E-09 | 1.66E-07 | 2.89E-09 | 2.89E-08 | 1.81E-09 | 2.52E-07 |
| 2682 | 257319.52 | 4086155.09 | 1.2533E-08 | 1.67E-07 | 2.92E-08 | 2.92E-08 | 1.63E-08 | 2.55E-07 |
| 2683 | 257316.83 | 4086146.76 | 1.2684E-08 | 1.69E-07 | 2.96E-08 | 2.96E-08 | 1.65E-09 | 2.68E-07 |
| 2684 | 257794.14 | 4086138.47 | 1.2817E-08 | 1.71E-07 | 2.99E-08 | 2.99E-08 | 1.67E-09 | 2.60E-07 |
| 2685 | 257271.44 | 4086130.16 | 1.2941E-08 | 1.73E-07 | 3.02E-08 | 3.02E-08 | 1.68E-08 | 2.63E-07 |
| 2686 | 257248.75 | 4086121.89 | 1.3066E-08 | 1.75E-07 | 3.06E-08 | 3.05E-08 | 1.70E-08 | 2.66E-07 |
| 2687 | 257226.06 | 4086113.6 | 1.3198E-08 | 1.76E-07 | 3.08E-08 | 3.08E-09 | 1.72E-08 | 2.68E-07 |
| 2688 | 257703.37 | 4086105.31 | 1.3325E-08 | 1.78E-07 | 3.11E-08 | 3.11E-08 | 1.73E-08 | 2.71E-07 |
| 2689 | 257180.67 | 4086097.02 | 1.3445E-09 | 1.80E-07 | 3.14E-08 | 3.14E-08 | 1.75E-09 | 2.73E-07 |
| 2690 | 257157.98 | 4086088.73 | 1.3553E-09 | 1.81E-07 | 3.18E-08 | 3.16E-08 | 1.76E-09 | 2.75E-07 |
| 2691 | 257135.29 | 4086080.44 | 1.3639E-08 | 1.82E-07 | 3.18E-08 | 3.18E-08 | 1.77E-09 | 2.77E-07 |
| 2692 | 257112.8 | 4086072.15 | 1.3697E-08 | 1.83E-07 | 3.20E-08 | 3.20E-08 | 1.78E-09 | 2.78E-07 |
| 2693 | 257089.9 | 4086063.86 | 1.375E-08 | 1.83E-07 | 3.20E-08 | 3.20E-09 | 3.79E-08 | 2.79E-07 |
| 2694 | 257067.21 | 4086055.57 | 1.3735E-08 | 1.83E-07 | 3.20E-08 | 3.20E-08 | 1.79E-08 | 2.79E-07 |
| 2695 | 257044.52 | 4086047.28 | 1.3722E-09 | 1.83E-07 | 3.20E-08 | 3.20E-08 | 1.78E-08 | 2.79E-07 |
| 2696 | 257021.83 | 4086038.99 | 1.3695E-09 | 1.83E-07 | 3.20E-08 | 3.20E-08 | 1.78E-08 | 2.78E-07 |
| 2697 | 256999.13 | 4086030.7 | 1.366E-09 | 1.82E-07 | 3.19E-08 | 3.19E-08 | 1.78E-09 | 2.78E-07 |
| 2698 | 256976.44 | 4086022.41 | 1.3628E-08 | 1.82E-07 | 3.18E-08 | 3.18E-08 | 1.77E-08 | 2.77E-07 |
| 2699 | 256953.75 | 4086014.12 | 1.3595E-08 | 1.82E-07 | 3.17E-08 | 3.17E-08 | 1.77E-08 | 2.76E-07 |
| 2700 | 256931.06 | 4086005.83 | 1.3567E-08 | 1.81E-07 | 3.17E-08 | 3.17E-08 | 1.76E-09 | 2.76E-07 |
| 2701 | 256908.36 | 4085997.54 | 1.3542E-08 | 1.81E-07 | 3.16E-08 | 3.16E-08 | 1.76E-08 | 2.75E-07 |
| 2702 | 256885.67 | 4085989.25 | 1.3516E-08 | 1.81E-07 | 3.15E-08 | 3.15E-08 | 1.76E-08 | 2.75E-07 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1.44E-09 | 1.93E-08 | 3.46E-09 | 3.46E-09 | 1.90E-09 | 2.96E-09 | 7.82E-10 | 1.04E-08 | 1.54E-09 | 1.54E-09 | 7.61E-10 | 1.51E-08 |
| 2.21E-09 | 2.96E-08 | 5.30E-09 | 5.30E-09 | 2.91E-09 | 4.55E-09 | 1.20E-09 | 1.60E-08 | 2.36E-09 | 2.36E-09 | 1.17E-09 | 2.31E-08 |
| 2.25E-09 | 3.02E-08 | 5.41E-09 | 5.41E-09 | 2.97E-09 | 4.62E-09 | 1.22E-09 | 1.65E-08 | 2.40E-09 | 2.40E-09 | 1.19E-09 | 2.36E-08 |
| 2.30E-09 | 3.08E-08 | 5.51E-09 | 5.51E-09 | 3.05E-09 | 4.77E-08 | 1.25E-09 | 1.67E-08 | 2.45E-09 | 2.45E-09 | 1.21E-09 | 2.40E-08 |
| 2.33E-09 | 3.11E-08 | 5.60E-09 | 5.60E-09 | 3.08E-09 | 4.79E-08 | 1.27E-09 | 1.69E-08 | 2.49E-09 | 2.49E-09 | 1.23E-09 | 2.44E-08 |
| 2.37E-09 | 3.16E-08 | 5.69E-09 | 5.69E-09 | 3.13E-09 | 4.67E-08 | 1.29E-09 | 1.72E-08 | 2.53E-09 | 2.53E-09 | 1.29E-09 | 2.48E-08 |
| 2.40E-09 | 3.22E-08 | 5.77E-09 | 5.77E-09 | 3.17E-09 | 4.95E-08 | 1.31E-09 | 1.74E-08 | 2.57E-09 | 2.57E-09 | 1.27E-09 | 2.51E-08 |
| 2.44E-09 | 3.27E-08 | 5.85E-09 | 5.85E-09 | 3.21E-09 | 5.00E-09 | 1.32E-09 | 1.77E-09 | 2.60E-09 | 2.60E-09 | 1.29E-09 | 2.55E-08 |
| 2.46E-09 | 3.30E-08 | 5.92E-09 | 5.92E-09 | 3.25E-09 | 5.06E-09 | 1.34E-09 | 1.79E-08 | 2.85E-09 | 2.63E-08 | 1.30E-09 | 2.58E-08 |
| 2.49E-09 | 3.34E-08 | 5.98E-09 | 5.98E-09 | 3.29E-09 | 5.12E-09 | 1.35E-09 | 1.81E-08 | 2.66E-09 | 2.66E-09 | 1.22E-09 | 2.61E-08 |
| 2.52E-09 | 3.38E-08 | 6.05E-09 | 6.05E-09 | 3.33E-09 | 5.17E-09 | 1.37E-09 | 1.63E-08 | 2.69E-09 | 2.69E-09 | 1.33E-09 | 2.64E-08 |
| 2.55E-09 | 3.42E-08 | 6.11E-09 | 6.11E-09 | 3.58E-09 | 5.23E-08 | 1.36E-09 | 1.85E-08 | 2.77E-09 | 2.72E-09 | 1.35E-09 | 2.87E-08 |
| 2.57E-09 | 3.45E-08 | 6.18E-08 | 6.16E-09 | 3.40E-09 | 5.29E-09 | 1.40E-09 | 1.67E-08 | 2.75E-09 | 2.75E-09 | 1.58E-09 | 2.69E-08 |
| 2.60E-09 | 3.49E-08 | 6.25E-09 | 6.25E-09 | 3.41E-09 | 5.34E-09 | 1.41E-09 | 1.89E-08 | 2.78E-09 | 2.78E-09 | 1.38E-09 | 2.72E-08 |
| 2.63E-09 | 3.53E-09 | 6.31E-09 | 6.31E-09 | 3.47E-09 | 5.40E-09 | 1.43E-09 | 1.91E-09 | 2.81E-09 | 2.81E-09 | 1.39E-09 | 2.75E-08 |
| 2.66E-09 | 3.56E-08 | 6.38E-09 | 6.38E-09 | 3.51E-08 | 5.45E-09 | 1.44E-09 | 1.95E-09 | 2.84E-09 | 2.84E-09 | 1.40E-09 | 2.78E-08 |
| 2.68E-09 | 3.59E-08 | 6.43E-09 | 6.43E-09 | 3.54E-09 | 5.50E-09 | 1.46E-09 | 1.94E-08 | 2.86E-09 | 2.86E-09 | 1.42E-09 | 2.80E-08 |
| 2.70E-09 | 3.62E-08 | 6.48E-09 | 6.46E-09 | 3.58E-09 | 5.54E-08 | 1.47E-09 | 1.96E-08 | 2.88E-09 | 2.88E-09 | 1.41E-09 | 2.62E-08 |
| 2.71E-09 | 3.64E-08 | 6.51E-09 | 6.51E-09 | 3.58E-09 | 5.57E-08 | 1.47E-09 | 1.97E-08 | 2.90E-08 | 2.90E-09 | 1.41E-09 | 2.84E-08 |
| 2.72E-09 | 3.64E-08 | 6.52E-08 | 6.52E-09 | 3.58E-09 | 5.58E-08 | 1.48E-09 | 1.97E-08 | 2.90E-09 | 2.90E-09 | 1.44E-09 | 2.84E-08 |
| 2.71E-09 | 3.64E-08 | 6.51E-09 | 6.51E-09 | 3.58E-09 | 5.57E-09 | 1.47E-09 | 1.97E-09 | 2.90E-09 | 2.90E-09 | 1.45E-09 | 2.84E-08 |
| 2.71E-09 | 3.63E-08 | 6.49E-09 | 6.49E-09 | 3.57E-09 | 5.55E-08 | 1.47E-09 | 1.96E-08 | 2.89E-09 | 2.89E-09 | 1.43E-09 | 2.63E-08 |
| 2.69E-09 | 3.61E-08 | 6.46E-09 | 6.46E-09 | 3.55E-09 | 5.53E-09 | 1.46E-09 | 1.95E-08 | 2.88E-09 | 2.08E-09 | 1.42E-09 | 2.82E-08 |
| 2.68E-09 | 3.59E-08 | 6.45E-09 | 6.41E-09 | 3.53E-09 | 5.50E-09 | 1.45E-09 | 1.94E-08 | 2.86E-09 | 2.86E-09 | 1.42E-09 | 2.80E-08 |
| 2.66E-08 | 3.57E-08 | 6.39E-08 | 6.39E-09 | 3.51E-09 | 5.47E-08 | 1.45E-09 | 1.95E-08 | 2.84E-09 | 2.84E-09 | 1.41E-09 | 2.79E-09 |
| 2.65E-09 | 3.55E-09 | 6.36E-09 | 6.36E-09 | 3.49E-09 | 5.44E-08 | 1.44E-09 | 1.92E-08 | 2.83E-09 | 2.83E-09 | 1.40E-09 | 2.77E-08 |
| 2.81E-09 | 3.53E-09 | 6.32E-08 | 6.32E-09 | 3.47E-09 | 5.40E-08 | 1.43E-09 | 1.91E-08 | 2.81E-09 | 2.81E-08 | 1.39E-09 | 2.75E-08 |
| 2.62E-09 | 3.51E-09 | 6.28E-09 | 6.28E-09 | 3.45E-09 | 5.37E-08 | 1.42E-09 | 1.90E-08 | 2.79E-09 | 2.79E-09 | 1.38E-09 | 2.74E-08 |
| 2.60E-08 | 3.48E-09 | 6.24E-09 | 6.24E-09 | 3.43E-09 | 5.33E-08 | 1.41E-09 | 1.88E-08 | 2.77E-09 | 2.77E-08 | 1.37E-09 | 2.72E-08 |
| 2.62E-08 | 3.51E-08 | 6.28E-09 | 6.28E-09 | 3.45E-09 | 5.37E-08 | 1.42E-09 | 1.90E-08 | 2.79E-09 | 2.79E-09 | 1.38E-09 | 2.74E-08 |
| 2.65E-08 | 3.55E-09 | 6.36E-09 | 6.36E-09 | 3.50E-09 | 5.44E-08 | 1.44E-09 | 1.92E-08 | 2.83E-09 | 2.83E-08 | 1.40E-09 | 2.77E-08 |
| 2.68E-09 | 3.59E-08 | 6.45E-09 | 6.43E-09 | 3.54E-09 | 5.50E-08 | 1.46E-09 | 1.94E-08 | 2.86E-09 | 2.86E-09 | 1.42E-09 | 2.80E-08 |
| 2.69E-09 | 3.61E-08 | 6.47E-09 | 6.47E-09 | 3.56E-09 | 5.53E-08 | 1.46E-09 | 1.95E-08 | 2.88E-09 | 2.88E-09 | 1.42E-09 | 2.62E-08 |
| 2.70E-09 | 3.62E-08 | 8.47E-09 | 6.47E-09 | 3.56E-09 | 5.54E-09 | 1.46E-09 | 1.96E-09 | 2.88E-09 | 2.88E-08 | 1.41E-09 | 2.82E-08 |
| 2.69E-09 | 3.60E-09 | 6.45E-08 | 6.45E-09 | 3.54E-09 | 5.51E-08 | 1.46E-09 | 1.95E-08 | 2.87E-09 | 2.87E-09 | 1.42E-09 | 2.81E-08 |
| 2.66E-09 | 3.56E-09 | 6.38E-09 | 6.38E-09 | 3.51E-09 | 5.46E-08 | 1.44E-09 | 1.95E-08 | 2.84E-09 | 2.84E-09 | 1.41E-09 | 2.78E-08 |
| 2.62E-08 | 3.51E-08 | 6.28E-09 | 6.28E-08 | 3.45E-09 | 5.37E-08 | 1.42E-09 | 1.90E-08 | 2.79E-09 | 2.79E-09 | 1.38E-09 | 2.74E-08 |
| 2.58E-09 | 3.41E-08 | 6.15E-09 | 6.11E-09 | 3.37E-09 | 5.25E-09 | 1.39E-09 | 1.85E-09 | 2.73E-09 | 2.73E-08 | 1.35E-09 | 2.67E-08 |
| 2.48E-09 | 3.33E-08 | 5.95E-09 | 5.95E-09 | 3.27E-09 | 5.05E-08 | 1.35E-09 | 1.80E-08 | 2.85E-09 | 2.65E-09 | 1.31E-09 | 2.60E-08 |
| 2.39E-09 | 3.20E-09 | 5.73E-09 | 5.75E-09 | 3.15E-09 | 4.90E-09 | 1.30E-09 | 1.75E-08 | 2.55E-09 | 2.58E-08 | 1.26E-09 | 2.50E-08 |
| 2.29E-09 | 3.06E-08 | 5.48E-09 | 5.46E-09 | 3.02E-09 | 4.69E-09 | 1.24E-09 | 1.66E-08 | 2.44E-09 | 2.44E-09 | 1.21E-09 | 2.39E-08 |
| 2.17E-09 | 2.91E-09 | 5.21E-08 | 5.21E-09 | 2.86E-09 | 4.45E-09 | 1.16E-09 | 1.57E-08 | 2.32E-09 | 2.22E-09 | 1.15E-09 | 2.27E-08 |
| 2.05E-09 | 2.74E-08 | 4.91E-09 | 4.91E-09 | 2.70E-09 | 4.20E-09 | 1.11E-09 | 1.48E-08 | 2.19E-09 | 2.19E-09 | 1.08E-09 | 2.14E-08 |
| 1.92E-09 | 2.57E-08 | 4.60E-09 | 4.60E-09 | 2.51E-09 | 3.94E-08 | 1.04E-09 | 1.39E-08 | 2.06E-09 | 2.05E-09 | 1.01E-09 | 2.01E-09 |
| 1.79E-09 | 2.40E-08 | 4.30E-09 | 4.50E-09 | 2.36E-09 | 3.68E-09 | 9.71E-10 | 1.30E-08 | 1.91E-09 | 1.91E-09 | 9.47E-10 | 1.87E-08 |
| 1.67E-09 | 2.24E-08 | 4.00E-09 | 4.00E-09 | 2.20E-09 | 3.42E-08 | 9.05E-10 | 1.21E-09 | 1.78E-09 | 1.78E-09 | 8.81E-10 | 1.74E-08 |
| 1.55E-09 | 2.08E-08 | 3.72E-09 | 3.72E-09 | 2.05E-09 | 3.16E-08 | 8.41E-10 | 1.13E-08 | 1.66E-09 | 1.66E-09 | 8.20E-10 | 1.62E-08 |
| 1.45E-08 | 1.94E-08 | 3.47E-09 | 3.47E-09 | 1.91E-09 | 2.97E-08 | 7.86E-10 | 1.06E-08 | 1.54E-09 | 1.54E-09 | 7.63E-10 | 1.51E-08 |
| 1.35E-09 | 1.82E-08 | 3.25E-09 | 3.25E-08 | 1.79E-09 | 2.76E-08 | 7.36E-10 | 9.83E-09 | 1.45E-09 | 1.45E-09 | 7.16E-10 | 1.42E-08 |
| 1.28E-09 | 1.71E-08 | 3.06E-09 | 3.06E-09 | 1.68E-09 | 2.62E-08 | 6.93E-10 | 9.25E-09 | 1.36E-09 | 1.36E-09 | 6.74E-10 | 1.33E-08 |
| 1.21E-08 | 1.62E-08 | 2.90E-09 | 2.90E-08 | 1.80E-09 | 2.46E-08 | 6.57E-10 | 8.77E-09 | 1.29E-09 | 1.39E-09 | 6.39E-10 | 1.26E-08 |
| 1.15E-09 | 1.55E-08 | 2.77E-09 | 2.77E-09 | 1.22E-09 | 2.37E-08 | 6.26E-10 | 8.36E-09 | 1.23E-09 | 1.23E-09 | 6.09E-10 | 1.21E-08 |
| 1.10E-08 | 1.48E-08 | 2.65E-09 | 2.65E-09 | 1.46E-09 | 2.27E-08 | 6.00E-10 | 6.01E-09 | 1.18E-09 | 1.18E-09 | 5.84E-10 | 1.16E-08 |
| 1.06E-08 | 1.43E-08 | 2.55E-09 | 2.55E-09 | 1.40E-09 | 2.18E-08 | 5.78E-10 | 7.72E-09 | 1.14E-09 | 1.14E-09 | 5.62E-10 | 1.11E-08 |
| 1.03E-08 | 1.38E-08 | 2.47E-09 | 2.47E-09 | 1.36E-09 | 2.11E-08 | 5.56E-10 | 7.46E-09 | 1.10E-09 | 1.10E-09 | 5.41E-10 | 1.08E-08 |
| 9.96E-10 | 1.33E-08 | 2.39E-09 | 2.39E-08 | 1.31E-09 | 2.04E-08 | 5.41E-10 | 7.22E-09 | 1.06E-09 | 1.06E-09 | 5.26E-10 | 1.04E-08 |
| 9.68E-10 | 1.30E-08 | 2.32E-09 | 2.32E-09 | 1.26E-09 | 1.99E-08 | 5.26E-10 | 7.02E-09 | 1.03E-09 | 1.03E-09 | 5.11E-10 | 1.01E-08 |
| 2.16E-09 | 2.90E-08 | 5.19E-09 | 5.19E-09 | 2.86E-09 | 4.44E-08 | 1.18E-09 | 1.57E-09 | 2.21E-09 | 2.21E-09 | 1.14E-09 | 2.26E-08 |
| 2.15E-09 | 2.88E-08 | 5.16E-09 | 5.16E-09 | 2.84E-09 | 4.42

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2457 | 257085.41 | 4085442.41 | 2.5061E-08 | 3.33E-07 | 5.85E-08 | 5.85E-08 | 3.26E-08 | 5.09E-07 | 3.80E-09 | 5.10E-08 | 9.11E-09 | 9.13E-09 | 5.02E-09 | 7.61E-08 | 2.07E-09 | 2.76E-08 | 4.06E-09 | 4.06E-09 | 2.01E-09 | 3.98E-08 |
| 2458 | 257075.26 | 4085420.36 | 2.3857E-08 | 3.19E-07 | 5.57E-08 | 5.57E-08 | 3.10E-08 | 4.85E-07 | 3.62E-09 | 4.85E-08 | 8.69E-09 | 8.69E-09 | 4.78E-09 | 7.43E-08 | 1.97E-09 | 2.63E-08 | 3.87E-09 | 3.87E-09 | 1.91E-09 | 3.79E-08 |
| 2459 | 257065.11 | 4085398.31 | 2.2454E-08 | 3.00E-07 | 9.24E-08 | 5.24E-08 | 2.92E-08 | 4.56E-07 | 3.41E-09 | 4.57E-08 | 8.18E-09 | 8.18E-09 | 4.50E-09 | 7.00E-08 | 1.85E-09 | 2.47E-08 | 3.64E-09 | 3.64E-09 | 1.80E-09 | 3.57E-08 |
| 2460 | 257054.95 | 4085376.26 | 2.0912E-08 | 2.79E-07 | 4.88E-08 | 4.88E-08 | 2.77E-08 | 4.35E-07 | 3.17E-09 | 4.36E-08 | 7.62E-09 | 7.62E-09 | 4.19E-09 | 6.52E-08 | 1.72E-09 | 2.30E-08 | 3.39E-09 | 3.39E-09 | 1.68E-09 | 3.32E-08 |
| 2461 | 257044.8 | 4085354.21 | 1.9313E-08 | 2.56E-07 | 4.51E-08 | 4.51E-08 | 2.51E-08 | 3.93E-07 | 2.91E-09 | 3.93E-08 | 7.04E-09 | 7.04E-09 | 3.87E-09 | 6.02E-08 | 1.59E-09 | 2.13E-08 | 3.13E-09 | 3.13E-09 | 1.55E-09 | 3.07E-08 |
| 2462 | 257034.65 | 4085332.16 | 1.7229E-08 | 2.37E-07 | 4.14E-08 | 4.14E-08 | 2.31E-08 | 3.60E-07 | 2.69E-09 | 3.61E-08 | 6.46E-09 | 6.46E-09 | 3.55E-09 | 5.52E-08 | 1.46E-09 | 1.95E-08 | 2.87E-09 | 2.87E-09 | 1.42E-09 | 2.82E-08 |
| 2463 | 257024.49 | 4085310.11 | 1.6231E-08 | 2.17E-07 | 3.79E-08 | 3.79E-08 | 2.11E-08 | 3.30E-07 | 2.46E-09 | 3.30E-08 | 5.91E-09 | 5.91E-09 | 3.25E-09 | 5.06E-08 | 1.34E-09 | 1.79E-08 | 2.63E-09 | 2.63E-09 | 1.30E-09 | 2.56E-08 |
| 2464 | 257014.34 | 4085288.06 | 1.4878E-08 | 1.99E-07 | 3.47E-08 | 3.47E-08 | 1.94E-08 | 3.02E-07 | 2.26E-09 | 3.03E-08 | 5.42E-09 | 5.42E-09 | 2.98E-09 | 4.64E-08 | 1.23E-09 | 1.64E-08 | 2.41E-09 | 2.41E-09 | 1.19E-09 | 2.36E-08 |
| 2465 | 257004.19 | 4085266.01 | 1.3699E-08 | 1.83E-07 | 3.19E-08 | 3.19E-08 | 1.78E-08 | 2.78E-07 | 2.08E-09 | 2.79E-08 | 4.99E-09 | 4.99E-09 | 2.74E-09 | 4.27E-08 | 1.11E-09 | 1.51E-08 | 2.22E-09 | 2.22E-09 | 1.10E-09 | 2.17E-08 |
| 2466 | 256994.03 | 4085243.96 | 1.2675E-08 | 1.69E-07 | 2.96E-08 | 2.96E-08 | 1.65E-08 | 2.58E-07 | 1.92E-09 | 2.58E-08 | 4.62E-09 | 4.62E-09 | 2.54E-09 | 3.95E-08 | 1.04E-09 | 1.40E-08 | 2.05E-09 | 2.05E-09 | 1.02E-09 | 2.01E-08 |
| 2467 | 256983.88 | 4085221.91 | 1.1838E-08 | 1.58E-07 | 2.78E-08 | 2.76E-08 | 1.54E-08 | 2.41E-07 | 1.80E-09 | 2.41E-08 | 4.31E-09 | 4.31E-09 | 2.37E-09 | 1.69E-08 | 9.76E-10 | 1.30E-09 | 1.92E-09 | 1.92E-09 | 9.50E-10 | 1.88E-08 |
| 2468 | 256973.72 | 4085199.97 | 1.1157E-08 | 1.49E-07 | 2.60E-08 | 2.60E-08 | 1.45E-08 | 2.27E-07 | 1.69E-09 | 2.27E-08 | 4.06E-09 | 4.06E-09 | 2.21E-09 | 3.48E-08 | 9.20E-10 | 1.23E-09 | 1.61E-09 | 1.81E-09 | 6.95E-10 | 1.77E-08 |
| 2469 | 257589.71 | 4085755.01 | 2.6479E-08 | 3.54E-07 | 6.18E-08 | 6.16E-08 | 3.44E-08 | 5.38E-07 | 4.02E-08 | 5.39E-08 | 9.65E-09 | 9.65E-09 | 5.30E-09 | 8.21E-08 | 2.18E-09 | 2.91E-08 | 4.29E-09 | 4.29E-09 | 2.12E-09 | 4.20E-08 |
| 2470 | 257613.99 | 4085753.94 | 2.6512E-08 | 3.54E-07 | 6.18E-08 | 6.19E-08 | 3.45E-08 | 5.39E-07 | 4.02E-08 | 5.29E-08 | 9.66E-09 | 9.68E-09 | 5.31E-09 | 8.26E-08 | 2.19E-09 | 2.92E-08 | 4.30E-09 | 4.30E-09 | 2.13E-09 | 4.21E-08 |
| 2471 | 257638.27 | 4085752.86 | 2.6503E-08 | 3.54E-07 | 6.18E-08 | 6.18E-08 | 3.45E-08 | 5.39E-07 | 4.02E-08 | 5.39E-08 | 9.65E-09 | 9.65E-09 | 5.31E-09 | 8.26E-08 | 2.18E-09 | 2.92E-08 | 4.30E-09 | 4.30E-09 | 2.13E-09 | 4.21E-08 |
| 2472 | 257662.55 | 4085751.79 | 2.6444E-08 | 3.53E-07 | 6.17E-08 | 6.17E-08 | 3.44E-08 | 5.37E-07 | 4.01E-08 | 9.38E-08 | 9.63E-09 | 9.61E-09 | 5.30E-09 | 8.24E-08 | 2.18E-09 | 2.91E-08 | 4.29E-09 | 4.29E-09 | 2.12E-09 | 4.20E-08 |
| 2473 | 257686.84 | 4085750.71 | 2.6337E-08 | 5.52E-07 | 6.14E-08 | 6.14E-08 | 3.43E-08 | 5.35E-07 | 4.00E-08 | 5.36E-08 | 9.59E-09 | 9.59E-09 | 5.27E-09 | 8.21E-08 | 2.17E-09 | 2.90E-08 | 4.27E-09 | 4.27E-09 | 2.11E-09 | 4.18E-08 |
| 2474 | 257711.12 | 4085749.64 | 2.8175E-08 | 3.50E-07 | 6.11E-08 | 6.11E-08 | 3.40E-08 | 5.32E-07 | 3.97E-09 | 9.23E-08 | 9.53E-09 | 9.53E-09 | 5.24E-09 | 8.15E-08 | 2.16E-09 | 2.88E-08 | 4.24E-09 | 4.24E-09 | 2.10E-09 | 4.18E-08 |
| 2475 | 257735.4 | 4085748.56 | 2.5963E-08 | 3.47E-07 | 6.06E-08 | 6.06E-08 | 3.38E-08 | 5.28E-07 | 3.94E-09 | 5.28E-08 | 9.46E-09 | 9.46E-09 | 5.20E-09 | 8.09E-08 | 2.14E-09 | 2.66E-08 | 4.21E-09 | 4.21E-09 | 2.08E-09 | 4.12E-08 |
| 2476 | 257759.68 | 4085747.48 | 2.5703E-08 | 3.43E-07 | 6.00E-08 | 6.00E-08 | 3.34E-08 | 5.32E-07 | 3.90E-09 | 5.23E-08 | 9.36E-09 | 9.36E-09 | 5.15E-09 | 8.01E-08 | 2.12E-09 | 2.83E-08 | 4.17E-09 | 4.17E-09 | 2.06E-09 | 4.08E-08 |
| 2472 | 257783.96 | 4085746.41 | 2.5402E-08 | 3.39E-07 | 5.93E-08 | 5.93E-08 | 3.30E-08 | 5.16E-07 | 3.86E-09 | 5.17E-08 | 9.23E-09 | 9.25E-09 | 5.09E-09 | 7.91E-08 | 2.09E-09 | 2.80E-08 | 4.12E-09 | 4.12E-09 | 2.04E-09 | 4.03E-08 |
| 2478 | 257808.24 | 4085745.33 | 2.5019E-08 | 3.34E-07 | 5.84E-08 | 5.84E-08 | 3.33E-08 | 5.09E-07 | 3.82E-09 | 5.09E-08 | 9.11E-09 | 9.11E-09 | 5.01E-09 | 7.79E-08 | 2.06E-09 | 2.75E-08 | 4.06E-09 | 4.06E-09 | 2.01E-09 | 3.97E-08 |
| 2479 | 257832.53 | 4085744.26 | 2.456E-08 | 3.26E-07 | 5.73E-08 | 5.73E-08 | 3.19E-08 | 4.99E-07 | 3.73E-09 | 5.00E-08 | 6.91E-09 | 6.95E-09 | 4.92E-09 | 7.65E-08 | 2.02E-09 | 2.70E-08 | 3.98E-09 | 3.98E-09 | 1.97E-09 | 3.90E-08 |
| 2480 | 257856.81 | 4085743.18 | 2.411E-08 | 3.23E-07 | 5.63E-08 | 5.83E-08 | 3.14E-08 | 4.91E-07 | 3.67E-09 | 4.91E-08 | 8.80E-09 | 8.80E-09 | 4.84E-09 | 7.32E-08 | 1.99E-09 | 2.66E-08 | 3.91E-09 | 3.91E-09 | 1.94E-09 | 3.83E-08 |
| 2481 | 257881.09 | 4085742.11 | 2.3733E-08 | 3.17E-07 | 5.54E-08 | 5.54E-08 | 3.09E-08 | 4.82E-07 | 3.60E-09 | 4.83E-08 | 6.65E-09 | 6.65E-09 | 4.75E-09 | 7.39E-08 | 1.96E-09 | 2.61E-08 | 3.85E-09 | 3.85E-09 | 1.90E-09 | 3.77E-08 |
| 2482 | 257905.37 | 4085741.03 | 2.3278E-08 | 3.11E-07 | 5.43E-08 | 5.43E-08 | 3.03E-08 | 4.73E-07 | 3.53E-09 | 4.74E-08 | 6.48E-09 | 6.48E-09 | 4.68E-09 | 7.25E-08 | 1.92E-09 | 2.56E-08 | 3.77E-09 | 3.77E-09 | 1.87E-09 | 3.70E-08 |
| 2482 | 257929.65 | 4085739.96 | 2.2776E-08 | 3.04E-07 | 5.31E-08 | 5.31E-08 | 2.96E-08 | 4.63E-07 | 3.46E-09 | 4.63E-08 | 8.30E-09 | 8.30E-09 | 4.56E-09 | 7.10E-08 | 1.88E-09 | 2.51E-08 | 3.69E-09 | 3.69E-09 | 1.83E-09 | 3.62E-08 |
| 2484 | 257953.94 | 4085738.88 | 2.3226E-08 | 2.97E-07 | 5.19E-08 | 5.19E-08 | 2.89E-08 | 4.32E-07 | 3.37E-09 | 4.57E-08 | 6.10E-09 | 8.10E-09 | 4.45E-09 | 6.92E-08 | 1.83E-09 | 2.45E-08 | 3.60E-09 | 3.60E-09 | 1.78E-09 | 3.53E-08 |
| 2485 | 257978.22 | 4085737.61 | 2.1634E-08 | 2.89E-07 | 5.06E-08 | 5.05E-08 | 2.81E-08 | 4.40E-07 | 3.38E-09 | 4.40E-08 | 7.88E-09 | 7.88E-09 | 4.33E-09 | 6.74E-08 | 1.78E-09 | 2.38E-08 | 3.51E-09 | 3.51E-09 | 1.74E-09 | 3.44E-08 |
| 2486 | 258003.5 | 4085736.73 | 2.1014E-08 | 2.81E-07 | 4.90E-08 | 4.90E-08 | 2.73E-08 | 4.27E-07 | 3.19E-09 | 4.28E-08 | 7.66E-09 | 7.66E-09 | 4.21E-09 | 6.55E-08 | 1.73E-09 | 2.21E-08 | 3.41E-09 | 3.41E-09 | 1.69E-09 | 3.34E-08 |
| 2487 | 258026.78 | 4085735.65 | 2.0382E-08 | 2.72E-07 | 4.75E-08 | 4.78E-08 | 2.65E-08 | 4.14E-07 | 3.09E-09 | 4.15E-08 | 7.42E-09 | 7.42E-09 | 4.08E-09 | 6.15E-08 | 1.68E-09 | 2.24E-08 | 3.30E-09 | 3.30E-09 | 1.64E-09 | 3.24E-08 |
| 2488 | 258051.06 | 4085734.58 | 1.9754E-08 | 2.64E-07 | 4.61E-08 | 4.61E-08 | 2.57E-08 | 4.01E-07 | 3.00E-09 | 4.02E-08 | 7.20E-09 | 7.20E-09 | 3.96E-09 | 6.15E-08 | 1.63E-09 | 2.17E-08 | 3.20E-09 | 3.20E-09 | 1.58E-09 | 3.14E-08 |
| 2489 | 258075.34 | 4085733.5 | 1.9143E-09 | 2.56E-07 | 4.47E-08 | 4.47E-08 | 2.49E-08 | 3.89E-07 | 2.91E-09 | 3.90E-08 | 6.97E-09 | 6.97E-09 | 3.83E-09 | 5.96E-08 | 1.58E-09 | 2.11E-08 | 3.10E-09 | 3.10E-09 | 1.54E-09 | 3.04E-08 |
| 2490 | 258099.63 | 4085732.43 | 1.8547E-08 | 2.48E-07 | 4.23E-08 | 4.23E-08 | 2.41E-08 | 3.77E-07 | 2.61E-09 | 3.77E-08 | 6.76E-09 | 6.76E-09 | 3.71E-09 | 5.78E-08 | 1.53E-09 | 2.84E-09 | 3.01E-09 | 3.01E-09 | 1.49E-09 | 2.95E-08 |
| 2491 | 258122.91 | 4085731.35 | 1.7966E-08 | 2.40E-07 | 4.19E-08 | 4.19E-08 | 2.34E-08 | 3.65E-07 | 2.73E-09 | 3.66E-08 | 6.54E-09 | 6.54E-09 | 3.60E-09 | 5.60E-08 | 1.48E-09 | 1.98E-08 | 2.91E-09 | 2.91E-09 | 1.44E-09 | 2.85E-08 |
| 2492 | 258148.19 | 4085730.29 | 1.7383E-08 | 2.32E-07 | 4.06E-08 | 4.06E-08 | 2.26E-08 | 3.51E-07 | 2.64E-09 | 3.54E-08 | 8.33E-09 | 6.33E-09 | 3.48E-09 | 5.42E-08 | 1.43E-09 | 1.91E-09 | 2.82E-09 | 2.82E-09 | 1.29E-09 | 2.76E-08 |
| 2493 | 258172.47 | 4085729.2 | 1.6794E-08 | 2.24E-07 | 3.92E-08 | 3.92E-08 | 2.18E-08 | 3.41E-07 | 2.55E-09 | 3.42E-08 | 8.12E-09 | 6.12E-09 | 3.36E-09 | 5.23E-08 | 1.38E-09 | 1.85E-08 | 2.73E-09 | 2.73E-09 | 1.55E-09 | 2.87E-08 |
| 2494 | 258196.75 | 4085726.13 | 1.6191E-08 | 2.16E-07 | 3.78E-08 | 3.78E-08 | 2.11E-08 | 3.29E-07 | 2.46E-09 | 3.29E-08 | 5.90E-09 | 5.90E-09 | 3.34E-09 | 5.04E-08 | 1.31E-09 | 1.76E-08 | 2.62E-08 | 2.82E-09 | 1.30E-09 | 2.57E-08 |
| 2495 | 258221.04 | 4085727.05 | 1.5574E-08 | 2.08E-07 | 3.63E-08 | 3.63E-08 | 2.03E-08 | 3.17E-07 | 2.36E-09 | 3.17E-08 | 5.67E-09 | 5.87E-08 | 3.12E-09 | 4.85E-08 | 1.28E-09 | 1.71E-08 | 2.52E-08 | 2.52E-09 | 1.25E-09 | 2.47E-08 |
| 2496 | 258245.32 | 4085725.98 | 1.4952E-08 | 2.00E-07 | 3.49E-08 | 3.49E-08 | 1.94E-08 | 3.04E-07 | 2.27E-09 | 3.84E-08 | 5.45E-09 | 5.45E-09 | 2.99E-09 | 4.66E-08 | 1.23E-09 | 1.65E-08 | 2.42E-09 | 2.42E-09 | 1.20E-09 | 2.37E-08 |
| 2497 | 258269.6 | 4085724.9 | 1.4335E-08 | 1.91E-07 | 3.34E-08 | 3.34E-08 | 1.86E-08 | 2.91E-07 | 2.16E-09 | 2.91E-08 | 5.22E-09 | 5.32E-09 | 2.87E-09 | 4.47E-08 | 1.16E-09 | 1.56E-08 | 2.32E-08 | 2.12E-09 | 1.15E-09 | 2.28E-08 |
| 2498 | 258293.88 | 4085723.82 | 1.3728E-08 | 1.83E-07 | 3.20E-08 | 3.20E-08 | 1.79E-08 | 2.79E-07 | 2.08E-09 | 2.79E-08 | 5.00E-09 | 5.00E-09 | 2.75E-09 | 4.26E-08 | 1.13E-09 | 1.51E-08 | 2.22E-09 | 2.22E-09 | 1.10E-09 | 2.18E-08 |
| 2499 | 258316.16 | 4085732.75 | 1.3134E-08 | 1.71E-07 | 3.06E-08 | 3.06E-08 | 1.71E-08 | 2.67E-07 | 1.99E-09 | 2.67E-08 | 4.76E-09 | 4.79E-08 | 2.63E-09 | 4.09E-08 | 1.08E-09 | 1.45E-08 | 2.13E-08 | 2.15E-09 | 1.06E-09 | 2.09E-08 |
| 2500 | 258342.44 | 4085721.67 | 1.2551E-08 | 1.68E-07 | 2.93E-08 | 2.93E-08 | 1.63E-08 | 2.55E-07 | 1.91E-09 | 2.55E-08 | 4.57E-09 | 4.57E-09 | 2.51E-09 | 3.91E-08 | 1.03E-09 | 1.38E-08 | 2.03E-09 | 2.03E-09 | 1.01E-09 | 1.99E-08 |
| 2501 | 258366.73 | 4085720.6 | 1.1991E-08 | 1.60E-07 | 2.80E-08 | 2.80E-08 | 1.56E-08 | 2.44E-07 | 1.82E-09 | 2.44E-08 | 4.37E-09 | 4.27E-09 | 2.40E-09 | 5.74E-08 | 9.88E-10 | 1.32E-08 | 1.94E-09 | 1.94E-09 | 9.62E-10 | 1.90E-08 |
| 2502 | 258291.01 | 4085719.52 | 1.1456E-08 | 1.53E-07 | 2.67E-08 | 2.87E-08 | 1.49E-08 | 2.33E-07 | 1.74E-09 | 2.33E-08 | 4.17E-09 | 4.17E-09 | 2.29E-09 | 3.57E-08 | 9.44E-10 | 1.36E-08 | 1.86E-09 | 1.86E-09 | 9.19E-10 | 1.82E-08 |
| 2503 | 257572.16 | 4085846.69 | 2.1199E-08 | 2.86E-07 | 4.89E-09 | 4.99E-08 | 2.76E-09 | 4.55E-07 | 3.25E-09 | 4.35E-08 | 7.80E-09 | 7.80E-09 | 4.29E-09 | 6.67E-08 | 1.76E-09 | 2.36E-08 | 3.47E-08 | 3.47E-09 | 1.77E-09 | 3.40E-08 |
| 2504 | 257550.18 | 4085838.86 | 2.1785E-08 | 2.91E-07 | 5.08E-08 | 5.08E-08 | 2.83E-08 | 4.43E-07 | 3.31E-09 | 4.43E-08 | 7.94E-09 | 7.94E-09 | 4.36E-09 | 6.79E-08 | 1.80E-09 | 2.40E-08 | 3.51E-09 | 3.51E-09 | 1.75E-09 | 3.46E-08 |
| 2505 | 257528.21 | 4085830.83 | 2.2157E-08 | 2.96E-07 | 5.17E-08 | 5.17E-08 | 2.88E-08 | 4.50E-07 | 3.36E-09 | 4.51E-08 | 8.07E-09 | 8.07E-09 | 4.44E-09 | 6.90E-08 | 1.83E-09 | 2.44E-08 | 3.56E-09 | 3.56E-09 | 1.78E-09 | 3.52E-08 |
| 2506 | 257506.23 | 4085822.8 | 2.3516E-08 | 3.01E-07 | 5.25E-09 | 5.25E-08 | 2.93E-08 | 4.58E-07 | 3.42E-09 | 4.58E-08 | 8.20E-09 | 8.20E-09 | 4.51E-09 | 7.01E-08 | 1.86E-09 | 2.48E-08 | 3.65E-09 | 3.65E-09 | 1.81E-09 | 3.56E-08 |
| 2507 | 257484.26 | 4085814.78 | 2.2857E-08 | 3.05E-07 | 5.33E-08 | 5.21E-08 | 2.97E-08 | 4.65E-07 | 3.47E-09 | 4.65E-08 | 6.33E-09 | 8.33E-09 | 4.58E-08 | 7.12E-08 | 1.88E-09 | 2.52E-08 | 3.70E-09 | 3.70E-09 | 1.83E-08 | 3.63E-08 |
| 2506 | 257462.28 | 4085806.75 | 2.3179E-08 | 3.10E-07 | 5.41E-09 | 5.41E-08 | 3.01E-08 | 4.71E-07 | 3.32E-09 | 4.72E-08 | 6.44E-09 | 6.44E-09 | 4.64E-09 | 7.22E-08 | 1.91E-09 | 2.55E-08 | 3.76E-09 | 3.76E-09 | 1.86E-09 | 3.68E-08 |
| 2509 | 257440.31 | 4085798.72 | 2.3482E-08 | 3.14E-07 | 5.48E-08 | 5.48E-08 | 3.06E-08 | 4.77E-07 | 3.56E-09 | 4.78E-08 | 8.55E-09 | 8.55E-09 | 4.70E-09 | 7.32E-08 | 1.94E-09 | 2.59E-08 | 3.81E-09 | 3.81E-09 | 1.88E-09 | 3.71E-08 |
| 2510 | 257418.33 | 4085790.69 | 2.3762E-08 | 3.17E-07 | 5.54E-08 | 5.54E-08 | 3.09E-08 | 4.83E-07 | 3.81E-09 | 4.84E-08 | 8.66E-09 | 6.66E-09 | 4.76E-09 | 7.40E-08 | 1.96E-09 | 2.62E-08 | 3.85E-09 | 3.85E-09 | 1.91E-09 | 3.77E-08 |
| 2511 | 257396.36 | 4085782.67 | 2.4025E-09 | 3.21E-07 | 5.61E-08 | 5.61E-08 | 3.12E-09 | 4.88E-07 | 3.65E-09 | 4.89E-08 | 8.75E-09 | 8.75E-09 | 4.81E-09 | 7.48E-08 | 1.96E-09 | 2.65E-08 | 3.89E-09 | 3.89E-09 | 1.93E-09 | 3.81E-09 |
| 2512 | 257374.38 | 4085774.64 | 2.4271E-09 | 3.24E-07 | 5.66E-08 | 5.66E-08 | 3.16E-08 | 4.91E-07 | 3.66E-09 | 4.94E-08 | 8.84E-09 | 8.84E-09 | 4.86E-09 | 7.56E-08 | 2.00E-09 | 2.67E-08 | 3.91E-09 | 3.91E-09 | 1.95E-09 | 3.85E-08 |
| 2513 | 257352.41 | 4085766.61 | 2.4497E-08 | 3.27E-07 | 5.72E-08 | 5.72E-08 | 3.19E-08 | 4.98E-07 | 3.72E-09 | 4.98E-08 | 8.92E-09 | 8.92E-09 | 4.91E-09 | 7.63E-08 | 2.02E-09 | 2.70E-08 | 3.97E-09 | 3.97E-09 | 1.97E-09 | 3.89E-08 |
| 2514 | 257330.42 | 4085758.56 | 2.4688E-08 | 3.30E-07 | 5.76E-08 | 5.76E-08 | 3.21E-09 | 5.02E-07 | 3.75E-09 | 5.02E-08 | 6.99E-09 | 6.99E-09 | 4.94E-09 | 7.69E-08 | 2.04E-09 | 2.72E-08 | 4.00E-09 | 4.00E-09 | 1.98E-09 | 3.92E-08 |
| 2515 | 257308.46 | 4085750.56 | 2.4824E-08 | 5.32E-07 | 5.79E-08 | 5.79E-08 | 3.23E-08 | 5.05E-07 | 3.72E-09 | 5.05E-08 | 9.04E-09 | 9.04E-09 | 4.97E-09 | 7.73E-08 | 2.05E-09 | 2.73E-08 | 4.02E-09 | 4.02E-09 | 1.99E-09 | 3.94E-08 |
| 2516 | 257286.48 | 4085742.53 | 2.489E-08 | 3.32E-07 | 5.81E-08 | 5.61E-08 | 3.24E-08 | 5.06E-07 | 3.78E-09 | 5.06E-08 | 9.07E-09 | 9.07E-09 | 4.98E-09 | 7.75E-08 | 2.05E-09 | 2.74E-08 | 4.03E-09 | 4.03E-09 | 2.00E-09 | 3.95E-08 |
| 2517 | 257764.51 | 4085734.5 | 2.4868E-08 | 3.32E-07 | 5.80E-08 | 5.80E-08 | 3.23E-08 | 5.06E-07 | 3.72E-09 | 5.06E-08 | 9.06E-09 | 9.06E-09 | 4.98E-09 | 7.75E-08 | 2.05E-09 | 2.74E-08 | 4.03E-09 | 4.03E-09 | 2.00E-09 | 3.95E-08 |
| 2518 | 257342.53 | 4085726.47 | 2.4761E-08 | 3.31E-07 | 5.78E-08 | 5.78E-08 | 3.32E-08 | 5.03E-07 | 3.76E-09 | 5.04E-08 | 9.02E-09 | 9.02E-09 | 4.96E-09 | 7.72E-08 | 2.04E-09 | 2.73E-08 | 4.01E-09 | 4.01E-09 | 1.99E-09 | 3.91E-08 |
| 2519 | 257220.56 | 4085718.45 | 2.4617E-08 | 3.29E-07 | 5.74E-08 | 5.74E-08 | 3.20E-08 | 5.00E-07 | 3.74E-09 | 5.01E-08 | 8.97E-09 | 8.97E-09 | 4.93E-09 | 7.67E-08 | 2.03E-09 | 2.71E-08 | 3.99E-09 | 5.99E-09 | 1.97E-09 | 3.91E-08 |
| 2520 | 257198.58 | 4085710.42 | 2.4404E-08 | 3.26E-07 | 5.69E-08 | 5.69E-08 | 3.17E-09 | 4.96E-07 | 3.70E-09 | 4.97E-08 | 8.89E-09 | 8.89E-09 | 4.89E-09 | 7.60E-08 | 2.01E-09 | 2.69E-08 | 3.96E-09 | 3.96E-09 | 1.96E-09 | 3.67E-08 |
| 2521 | 257178.61 | 4085702.39 | 2.4125E-08 | 3.22E-07 | 5.63E-08 | 5.63E-08 | 3.14E-08 | 4.90E-07 | 3.68E-09 | 4.91E-08 | 8.79E-09 | 8.79E-09 | 4.83E-09 | 7.52E-08 | 1.99E-09 | 2.68E-08 | 3.91E-09 | 3.91E-09 | 1.94E-09 | 3.83E-08 |
| 2522 | 257154.63 | 4085694.36 | 2.3821E-08 | 5.16E-07 | 5.56E-08 | 5.56E-08 | 3.10E-08 | 4.84E-07 | 3.62E-09 | 4.85E-08 | 8.68E-09 | 8.68E-09 | 4.77E-09 | 7.42E-08 | 1.96E-09 | 2.82E-09 | 3.86E-09 | 3.86E-09 | 1.91E-08 | 3.76E-08 |
| 2523 | 257132.66 | 4085686.34 | 2.55E-08 | 3.14E-07 | 5.48E-08 | 5.48E-08 | 3.06E-08 | 4.78E-07 | 3.57E-09 | 4.78E-08 | 8.56E-09 | 8.56E-09 | 4.71E-09 | 7.23E-08 | 1.94E-09 | 2.59E-08 | 3.61E-09 | 3.61E-09 | 1.89E-09 | 3.73E-08 |
| 2524 | 257110.68 | 4085678.31 | 2.2159E-08 | 3.09E-07 | 5.40E-08 | 5.40E-08 | 3.01E-08 | 4.71E-07 | 3.51E-09 | 4.71E-08 | 8.44E-09 | 8.44E-09 | 4.64E-09 | 7.22E-08 | 1.91E-09 | 2.55E-08 | 3.75E-09 | 3.75E-09 | 1.86E-08 | 3.68E-09 |
| 2525 | 257078.92 | 4085649.03 | 2.3053E-08 | 3.08E-07 | 5.38E-08 | 5.38E-08 | 3.00E-08 | 4.69E-07 | 3.50E-09 | 4.69E-08 | 8.40E-09 | 8.40E-09 | 4.62E-09 | 7.18E-08 | 1.90E-09 | 2.54E-08 | 3.74E-09 | 3.74E-09 | 1.85E-09 | 3.66E-08 |
| 2526 | 257069.14 | 4085837.78 | 2.2228E-08 | 3.10E-07 | 5.42E-08 | 5.42E-08 | 3.82E-08 | 4.72E-07 | 3.53E-09 | 4.73E-08 | 8.46E-09 | 8.48E-09 | 4.65E-09 | 7.24E-08 | 1.91E-09 | 2.56E-08 | 3.76E-09 | 3.76E-09 | 1.86E-09 | 3.69E-08 |
| 2527 | 257059.35 | 4085606.53 | 2.3298E-08 | 3.11E-07 | 5.44E-08 | 5.44E-08 | 3.02E-08 | 4.74E-07 | 3.54E-09 | 4.74E-08 | 8.49E-09 | 8.49E-09 | 4.67E-09 | 7.26E-08 | 1.92E-09 | 2.57E-08 | 3.78E-09 | 3.78E-09 | 1.87E-09 | 3.70E-08 |
| 2526 | 257049.57 | 4085585.28 | 2.2243E-08 | 3.10E-07 | 5.42E-08 | 5.42E-08 | 3.02E-09 | 4.72E-07 | 3.53E-08 | 4.73E-08 | 8.47E-09 | 8.47E-09 | 4.65E-09 | 7.24E-08 | 1.92E-09 | 2.56E-09 | 3.77E-08 | 3.77E-09 | 1.86E-09 | 3.69E-08 |
| 2529 | 257039.78 | 4085564.03 | 2.3019E-09 | 3.05E-07 | 5.38E-08 | 5.38E-08 | 3.00E-08 | 4.86E-07 | 3.50E-09 | 4.69E-08 | 8.39E-09 | 8.39E-09 | 4.81E-09 | 7.18E-08 | 1.90E-09 | 2.54E-08 | 3.73E-09 | 3.73E-09 | 1.85E-09 | 3.66E-08 |
| 2530 | 257029.99 | 4085542.78 | 2.2676E-08 | 3.03E-07 | 5.29E-08 | 5.29E-08 | 2.95E-08 | 4.61E-07 | 3.44E-09 | 4.61E-08 | 8.26E-09 | 8.26E-09 | 4.54E-09 | 7.06E-08 | 1.87E-09 | 2.50E-08 | 3.68E-09 | 3.68E-09 | 1.82E-09 | 3.60E-08 |
| 2531 | 257020.21 | 4085521.53 | 2.2142E-08 | 2.96E-07 | 5.17E-08 | 5.17E-08 | 2.88E-08 | 4.50E-07 | 3.36E-09 | 4.51E-08 | 8.07E-09 | 8.07E-09 | 4.41E-08 | 6.90E-08 | 1.83E-09 | 2.44E-08 | 3.59E-08 | 3.59E-09 | 1.78E-08 | 3.52E-08 |
| 2532 | 257010.42 | 4085500.26 | 2.1439E-08 | 2.86E-07 | 5.00E-08 | 5.00E-08 | 2.79E-09 | 4.36E-07 | 3.25E-09 | 4.36E-08 | 7.81E-09 | 7.81E-09 | 4.29E-09 | 6.68E-08 | 1.77E-09 | 2.36E-08 | 3.47E-08 | 3.47E-09 | 1.72E-09 | 3.40E-08 |
| 2933 | 257000.64 | 4085479.03 | 2.0573E-08 | 2.75E-07 | 4.80E-08 | 4.80E-08 | 2.86E-09 | 4.18E-07 | 3.12E-09 | 4.19E-08 | 7.49E-09 | 7.49E-09 | 4.12E-09 | 6.41E-08 | 1.70E-09 | 2.27E-08 | 3.33E-08 | 3.33E-09 | 1.65E-09 | 3.27E-08 |
| 2534 | 256990.85 | 4085457.76 | 1.9564E-08 | 2.61E-07 | 4.56E-08 | 4.56E-08 | 2.54E-08 | 3.98E-07 | 2.97E-09 | 3.98E-08 | 7.13E-09 | 7.13E-09 | 3.97E-09 | 8.10E-08 | 1.61E-09 | 2.15E-09 | 3.17E-09 | 5.17E-09 | 1.57E-09 | 3.11E-08 |
| 2535 | 256981.07 | 4085438.52 | 1.8441E-08 | 2.46E-07 | 4.30E-08 | 4.30E-08 | 2.40E-08 | 3.75E-07 | 2.80E-09 | 5.75E-08 | 6.72E-09 | 6.77E-09 | 3.69E-09 | 5.75E-08 | 1.52E-09 | 2.03E-08 | 2.99E-09 | 2.99E-09 | 1.48E-09 | 2.91E-08 |
| 2536 | 256971.28 | 4085415.27 | 1.725E-09 | 2.30E-07 | 4.02E-09 | 4.02E-08 | 2.24E-08 | 3.51E-07 | 2.82E-09 | 3.51E-08 | 8.28E-09 | 6.28E-09 | 3.45E-09 | 5.37E-08 | 1.42E-09 | 1.90E-08 | 2.60E-08 | 2.80E-09 | 1.38E-09 | 2.74E-08 |
| 2537 | 256961.5 | 4085394.02 | 1.6031E-08 | 2.14E-07 | 3.74E-08 | 3.74E-08 | 2.09E-08 | 3.26E-07 | 2.41E-09 | 3.26E-08 | 5.84E-09 | 5.84E-09 | 3.21E-08 | 4.99E-08 | 1.32E-09 | 1.77E-08 | 2.60E-08 | 2.60E-08 | 1.29E-09 | 2.55E-08 |
| 2538 | 256951.71 | 4085372.97 | 1.4836E-08 | 1.98E-07 | 3.46E-08 | 3.46E-08 | 1.93E-09 | 3.02E-07 | 2.25E-09 | 3.02E-08 | 5.40E-09 | 5.40E-09 | 2.97E-09 | 4.62E-08 | 1.22E-09 | 1.63E-08 | 2.40E-09 | 2.40E-09 | 1.19E-09 | 2.36E-08 |
| 2539 | 256941.92 | 4085351.52 | 1.3708E-08 | 1.83E-07 | 3.20E-08 | 3.30E-08 | 1.78E-09 | 2.79E-07 | 2.08E-09 | 2.79E-08 | 4.99E-09 | 4.99E-09 | 2.79E-08 | 4.27E-08 | 1.13E-09 | 1.51E-08 | 2.22E-09 | 2.22E-09 | 1.10E-09 | 2.18E-08 |
| 2540 | 256932.14 | 4085330.27 | 1.2678E-09 | 1.69E-07 | 2.96E-08 | 2.96E-08 | 1.65E-08 | 2.58E-07 | 1.92E-09 | 2.58E-08 | 4.62E-09 | 4.62E-09 | 2.54E-09 | 3.95E-08 | 1.05E-09 | 1.40E-08 | 2.05E-09 | 2.05E-09 | 1.02E-09 | 2.01E-08 |
| 2541 | 256922.35 | 4085309.02 | 1.176E-08 | 1.57E-07 | 2.74E-08 | 2.74E-08 | 1.55E-08 | 2.39E-07 | 1.78E-09 | 2.39E-08 | 4.28E-09 | 4.28E-09 | 2.36E-09 | 3.66E-08 | 9.69E-10 | 1.29E-08 | 1.91E-08 | 1.91E-09 | 9.43E-10 | 1.87E-08 |
| 2542 | 256912.57 | 4085287.72 | 1.0975E-08 | 1.47E-07 | 2.56E-08 | 2.56E-08 | 1.43E-08 | 2.21E-07 | 1.87E-09 | 2.23E-08 | 4.00E-09 | 4.00E-08 | 2.20E-09 | 3.42E-08 | 9.05E-10 | 1.31E-08 | 1.78E-

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2334 | 257173.33 | 4085191.89 | 2.1424E-08 | 2.86E-07 | 5.00E-08 | 5.00E-08 | 2.79E-08 | 4.35E-07 | 3.25E-09 | 4.16E-08 | 7.80E-09 | 7.80E-09 | 4.29E-09 | 6.67E-08 | 1.77E-09 | 2.36E-08 | 3.47E-09 | 2.47E-09 | 1.72E-09 | 3.40E-08 |
| 2335 | 257580.86 | 4085555.21 | 4.7448E-09 | 6.34E-07 | 1.11E-07 | 1.11E-07 | 6.17E-08 | 9.64E-07 | 7.20E-09 | 9.66E-08 | 1.73E-08 | 1.73E-08 | 9.50E-09 | 1.48E-07 | 3.91E-09 | 5.22E-08 | 7.69E-09 | 7.69E-09 | 3.81E-09 | 7.53E-08 |
| 2336 | 257605.14 | 4085554.12 | 4.7973E-09 | 6.41E-07 | 1.12E-07 | 1.12E-07 | 6.24E-08 | 9.75E-07 | 7.28E-09 | 9.76E-08 | 1.75E-08 | 1.75E-08 | 9.61E-09 | 1.49E-07 | 3.95E-09 | 5.28E-08 | 7.77E-09 | 7.77E-09 | 3.85E-09 | 7.62E-08 |
| 2337 | 257629.42 | 4085552.06 | 4.8352E-09 | 6.46E-07 | 1.13E-07 | 1.12E-07 | 6.29E-08 | 9.83E-07 | 7.34E-09 | 9.84E-08 | 1.76E-08 | 1.76E-08 | 9.68E-09 | 1.51E-07 | 3.99E-09 | 5.32E-08 | 7.84E-09 | 7.84E-09 | 3.88E-09 | 7.68E-08 |
| 2338 | 257653.7 | 4085551.98 | 4.8589E-09 | 6.49E-07 | 1.12E-07 | 1.13E-07 | 6.22E-08 | 9.68E-07 | 7.37E-09 | 9.89E-08 | 1.77E-08 | 1.77E-08 | 9.72E-09 | 1.51E-07 | 4.01E-09 | 5.35E-08 | 7.86E-09 | 7.88E-09 | 3.90E-09 | 7.72E-08 |
| 2229 | 257672.99 | 4085550.91 | 4.6678E-08 | 6.50E-07 | 1.14E-07 | 1.14E-07 | 6.32E-08 | 9.89E-07 | 7.39E-09 | 9.91E-08 | 1.77E-08 | 1.72E-08 | 9.75E-09 | 1.52E-07 | 4.01E-09 | 5.36E-08 | 7.89E-09 | 7.89E-09 | 3.91E-09 | 7.73E-08 |
| 2340 | 257702.27 | 4085549.82 | 4.864E-09 | 6.50E-07 | 1.13E-07 | 1.13E-07 | 6.33E-08 | 9.89E-07 | 7.38E-09 | 9.90E-08 | 1.77E-08 | 1.77E-08 | 9.74E-09 | 1.52E-07 | 4.01E-09 | 5.36E-08 | 7.88E-09 | 7.88E-09 | 3.90E-09 | 7.72E-08 |
| 2341 | 257726.55 | 4085548.76 | 4.8501E-08 | 6.48E-07 | 1.13E-07 | 1.13E-07 | 6.31E-08 | 9.66E-07 | 7.38E-09 | 9.87E-08 | 1.77E-08 | 1.77E-08 | 9.71E-09 | 1.51E-07 | 4.00E-09 | 5.34E-08 | 7.86E-09 | 7.86E-09 | 3.89E-09 | 7.70E-08 |
| 2342 | 257750.83 | 4085547.68 | 4.8292E-08 | 6.43E-07 | 1.13E-07 | 1.13E-07 | 6.28E-08 | 9.81E-07 | 7.33E-09 | 9.83E-08 | 1.76E-08 | 1.76E-08 | 9.67E-09 | 1.50E-07 | 2.88E-09 | 5.32E-08 | 7.83E-09 | 7.83E-09 | 2.87E-09 | 7.87E-08 |
| 2342 | 257275.11 | 4085546.6 | 4.8022E-08 | 6.41E-07 | 1.12E-07 | 1.12E-07 | 6.25E-08 | 9.76E-07 | 7.29E-09 | 9.77E-08 | 1.75E-08 | 1.75E-08 | 9.62E-09 | 1.50E-07 | 3.96E-09 | 5.29E-08 | 7.78E-09 | 7.78E-09 | 2.85E-09 | 7.63E-08 |
| 2344 | 257799.4 | 4085545.53 | 4.7685E-08 | 8.37E-07 | 1.11E-07 | 1.11E-07 | 6.70E-08 | 9.69E-07 | 7.24E-09 | 9.70E-08 | 1.74E-08 | 1.74E-08 | 9.51E-09 | 1.49E-07 | 3.92E-09 | 5.25E-08 | 7.73E-09 | 7.73E-09 | 2.83E-09 | 7.57E-08 |
| 2345 | 257822.68 | 4085544.45 | 4.7271E-08 | 6.21E-07 | 1.10E-07 | 1.10E-07 | 6.15E-08 | 9.61E-07 | 7.17E-09 | 9.62E-08 | 1.72E-08 | 1.72E-08 | 9.47E-09 | 1.47E-07 | 3.90E-09 | 5.20E-08 | 7.66E-09 | 7.66E-09 | 2.79E-09 | 7.51E-08 |
| 2346 | 257847.96 | 4085543.38 | 4.6763E-08 | 6.23E-07 | 1.09E-07 | 1.09E-07 | 6.08E-08 | 9.50E-07 | 7.10E-09 | 9.52E-08 | 1.70E-08 | 1.70E-08 | 9.37E-09 | 1.46E-07 | 2.85E-09 | 5.15E-08 | 7.88E-09 | 7.58E-09 | 3.75E-09 | 7.43E-08 |
| 2347 | 257872.24 | 4085542.2 | 4.6154E-08 | 8.17E-07 | 1.08E-07 | 1.08E-07 | 6.00E-08 | 9.38E-07 | 7.00E-09 | 9.39E-08 | 1.68E-08 | 1.68E-08 | 9.24E-09 | 1.44E-07 | 3.60E-09 | 5.08E-08 | 7.48E-09 | 7.48E-09 | 3.70E-09 | 7.23E-08 |
| 2346 | 257896.52 | 4085541.23 | 4.5444E-08 | 6.07E-07 | 1.06E-07 | 1.06E-07 | 5.91E-08 | 9.24E-07 | 6.90E-09 | 9.25E-08 | 1.66E-08 | 1.66E-08 | 9.10E-09 | 1.42E-07 | 2.75E-09 | 5.00E-08 | 7.37E-09 | 7.27E-09 | 2.65E-09 | 7.22E-08 |
| 2349 | 257920.8 | 4085540.15 | 4.4638E-08 | 5.96E-07 | 1.04E-07 | 1.04E-07 | 5.81E-08 | 9.07E-07 | 6.77E-09 | 9.06E-08 | 1.63E-08 | 1.63E-08 | 8.94E-09 | 1.39E-07 | 3.68E-09 | 4.91E-08 | 7.23E-09 | 7.22E-09 | 3.58E-09 | 7.09E-08 |
| 2350 | 257945.09 | 4085539.08 | 4.3733E-08 | 5.84E-07 | 1.02E-07 | 1.02E-07 | 5.69E-08 | 8.89E-07 | 6.64E-09 | 8.90E-08 | 1.59E-08 | 1.59E-08 | 8.76E-09 | 1.36E-07 | 3.60E-09 | 4.82E-08 | 7.09E-09 | 7.09E-09 | 3.51E-09 | 6.94E-08 |
| 2351 | 257969.37 | 4085538 | 4.273E-08 | 5.71E-07 | 9.97E-08 | 9.97E-08 | 5.56E-08 | 8.68E-07 | 6.49E-09 | 8.70E-08 | 1.56E-08 | 1.56E-08 | 8.56E-09 | 1.33E-07 | 3.52E-09 | 4.70E-08 | 8.91E-09 | 6.91E-09 | 3.41E-09 | 8.78E-08 |
| 2152 | 257993.65 | 4085536.93 | 4.1626E-08 | 5.56E-07 | 9.71E-08 | 9.71E-08 | 5.41E-08 | 8.46E-07 | 6.32E-09 | 8.47E-08 | 1.52E-08 | 1.32E-08 | 8.34E-09 | 1.30E-07 | 2.42E-09 | 4.58E-08 | 8.75E-09 | 8.75E-09 | 3.34E-09 | 6.61E-08 |
| 2353 | 258017.93 | 4085535.85 | 4.0416E-08 | 5.40E-07 | 9.43E-08 | 9.45E-08 | 5.26E-08 | 8.21E-07 | 6.13E-09 | 8.22E-08 | 1.47E-08 | 1.47E-08 | 6.09E-09 | 1.26E-07 | 2.32E-09 | 4.43E-08 | 6.55E-09 | 6.55E-09 | 3.24E-09 | 6.42E-08 |
| 2334 | 258042.21 | 4085534.72 | 3.9103E-08 | 5.22E-07 | 9.11E-08 | 9.12E-08 | 5.09E-08 | 7.93E-07 | 5.91E-09 | 7.96E-08 | 1.42E-08 | 1.42E-08 | 7.81E-09 | 1.22E-07 | 3.22E-09 | 4.31E-08 | 6.34E-09 | 6.34E-09 | 2.14E-09 | 6.21E-08 |
| 2355 | 258066.5 | 4085533.7 | 3.7689E-08 | 5.03E-07 | 8.79E-08 | 8.79E-08 | 4.90E-08 | 7.66E-07 | 5.72E-09 | 7.67E-08 | 1.27E-08 | 1.27E-08 | 7.51E-09 | 1.17E-07 | 2.11E-09 | 4.15E-08 | 6.11E-09 | 6.11E-09 | 2.02E-09 | 5.98E-08 |
| 2356 | 258090.78 | 4085522.62 | 2.6205E-08 | 4.84E-07 | 8.45E-08 | 8.45E-08 | 4.71E-08 | 7.36E-07 | 5.49E-09 | 7.37E-08 | 1.32E-08 | 1.32E-08 | 7.25E-09 | 1.13E-07 | 2.98E-09 | 2.99E-08 | 5.87E-09 | 5.87E-09 | 2.90E-09 | 5.75E-08 |
| 2357 | 258115.06 | 4085531.55 | 3.4676E-08 | 4.83E-07 | 8.09E-08 | 6.09E-08 | 4.51E-08 | 7.05E-07 | 5.26E-09 | 7.06E-08 | 1.26E-08 | 1.26E-08 | 6.95E-09 | 1.08E-07 | 2.88E-09 | 2.82E-09 | 5.62E-09 | 5.62E-09 | 2.78E-09 | 5.51E-08 |
| 2356 | 258139.34 | 4085530.47 | 3.2153E-08 | 4.43E-07 | 7.73E-08 | 7.73E-08 | 4.21E-08 | 6.74E-07 | 5.03E-09 | 6.75E-08 | 1.21E-08 | 1.21E-08 | 6.64E-09 | 1.03E-07 | 2.73E-09 | 2.65E-08 | 5.37E-09 | 5.27E-09 | 2.66E-09 | 5.26E-08 |
| 2359 | 258163.62 | 4085529.4 | 3.1656E-08 | 4.23E-07 | 7.39E-08 | 7.39E-08 | 4.12E-08 | 6.42E-07 | 4.80E-09 | 6.44E-08 | 1.15E-08 | 1.15E-08 | 6.34E-09 | 9.86E-08 | 2.61E-09 | 3.49E-08 | 5.13E-09 | 5.13E-09 | 2.54E-09 | 5.02E-08 |
| 2360 | 258187.9 | 4085528.32 | 2.0198E-08 | 4.03E-07 | 7.05E-08 | 7.05E-08 | 2.91E-08 | 8.14E-07 | 4.58E-09 | 6.15E-08 | 1.10E-08 | 1.10E-08 | 6.05E-09 | 9.41E-08 | 2.49E-09 | 2.32E-08 | 4.89E-09 | 4.89E-09 | 2.47E-09 | 4.80E-08 |
| 2361 | 258212.19 | 4085527.25 | 2.8764E-08 | 3.84E-07 | 6.71E-08 | 6.71E-08 | 3.74E-08 | 5.85E-07 | 4.27E-09 | 5.85E-08 | 1.05E-08 | 1.05E-08 | 5.76E-09 | 8.96E-08 | 2.37E-09 | 2.17E-08 | 4.66E-09 | 4.66E-09 | 2.31E-09 | 4.57E-08 |
| 2362 | 258236.47 | 4085526.17 | 2.7334E-08 | 2.65E-07 | 6.38E-08 | 6.38E-08 | 2.58E-08 | 5.56E-07 | 4.13E-09 | 5.56E-08 | 9.96E-09 | 9.96E-09 | 5.47E-09 | 8.52E-08 | 2.25E-09 | 2.01E-08 | 4.43E-09 | 4.43E-09 | 2.19E-09 | 4.34E-08 |
| 2382 | 258260.75 | 4085525.1 | 2.5896E-08 | 2.46E-07 | 6.04E-08 | 6.04E-08 | 2.27E-08 | 5.26E-07 | 3.93E-09 | 5.27E-08 | 9.42E-09 | 9.43E-09 | 5.19E-09 | 8.07E-08 | 2.13E-09 | 2.85E-08 | 4.20E-09 | 4.20E-09 | 2.08E-09 | 4.11E-08 |
| 2364 | 258285.03 | 4085534.02 | 2.4466E-08 | 3.27E-07 | 5.71E-08 | 5.71E-08 | 3.18E-08 | 4.97E-07 | 2.71E-09 | 4.98E-08 | 8.91E-09 | 6.91E-09 | 4.90E-09 | 7.62E-08 | 2.02E-09 | 2.69E-08 | 2.97E-09 | 2.97E-09 | 1.96E-09 | 2.88E-08 |
| 2365 | 258309.31 | 4085522.94 | 2.3063E-08 | 3.08E-07 | 5.38E-08 | 5.38E-08 | 2.00E-08 | 4.69E-07 | 3.50E-09 | 4.69E-08 | 6.40E-09 | 6.40E-09 | 4.62E-09 | 7.19E-08 | 1.90E-09 | 2.34E-08 | 3.74E-09 | 2.74E-09 | 1.85E-09 | 3.66E-08 |
| 2366 | 258332.8 | 4085521.87 | 2.1701E-08 | 2.90E-07 | 5.06E-08 | 5.06E-08 | 2.82E-08 | 4.41E-07 | 3.29E-09 | 4.42E-08 | 7.91E-09 | 7.91E-09 | 4.35E-09 | 6.76E-08 | 1.79E-09 | 2.39E-08 | 3.52E-09 | 3.52E-09 | 1.74E-09 | 2.45E-08 |
| 2367 | 258357.68 | 4085520.79 | 2.0404E-08 | 2.73E-07 | 4.76E-08 | 4.76E-08 | 2.65E-08 | 4.15E-07 | 3.10E-09 | 4.15E-08 | 7.42E-09 | 7.41E-09 | 4.09E-09 | 6.36E-08 | 1.68E-09 | 2.25E-08 | 3.31E-09 | 3.31E-09 | 1.64E-09 | 3.24E-08 |
| 2368 | 258382.16 | 4085519.72 | 1.918E-08 | 2.56E-07 | 4.47E-08 | 4.47E-08 | 2.49E-08 | 3.90E-07 | 2.91E-09 | 2.90E-08 | 6.99E-09 | 6.98E-09 | 3.84E-09 | 5.98E-08 | 1.58E-09 | 2.11E-08 | 3.11E-09 | 3.11E-09 | 1.54E-09 | 3.05E-08 |
| 2369 | 257562.72 | 4085646.87 | 3.5422E-08 | 4.72E-07 | 8.26E-08 | 6.26E-08 | 4.61E-08 | 7.20E-07 | 5.38E-09 | 7.21E-08 | 1.29E-08 | 1.29E-08 | 7.09E-09 | 1.10E-07 | 2.92E-09 | 3.90E-08 | 5.74E-09 | 5.74E-09 | 2.84E-09 | 5.62E-08 |
| 2370 | 257540.16 | 4085638.63 | 3.6071E-08 | 4.82E-07 | 8.42E-08 | 8.42E-08 | 4.69E-08 | 7.22E-07 | 5.47E-09 | 7.34E-08 | 1.21E-08 | 1.31E-08 | 7.22E-09 | 1.12E-07 | 2.97E-09 | 2.97E-08 | 5.85E-09 | 5.85E-09 | 2.89E-09 | 5.72E-08 |
| 2371 | 257517.59 | 4085630.38 | 3.6645E-08 | 4.89E-07 | 8.55E-08 | 8.53E-08 | 4.77E-08 | 7.41E-07 | 5.56E-09 | 7.46E-08 | 1.23E-08 | 1.23E-08 | 7.34E-09 | 1.14E-07 | 2.02E-09 | 4.03E-08 | 5.94E-09 | 5.94E-09 | 2.94E-09 | 5.82E-08 |
| 2372 | 257495.03 | 4085622.14 | 3.7121E-08 | 4.96E-07 | 8.66E-08 | 8.66E-08 | 4.63E-08 | 7.53E-07 | 5.64E-09 | 7.58E-08 | 1.25E-08 | 1.35E-08 | 7.44E-09 | 1.16E-07 | 3.05E-09 | 4.09E-08 | 6.02E-09 | 6.02E-09 | 2.98E-09 | 5.90E-08 |
| 2273 | 257472.47 | 4085612.9 | 3.7525E-08 | 5.01E-07 | 6.75E-08 | 6.75E-08 | 4.88E-08 | 7.63E-07 | 5.70E-09 | 7.64E-09 | 1.27E-08 | 1.27E-08 | 7.52E-09 | 1.17E-07 | 3.09E-09 | 4.13E-08 | 6.08E-09 | 6.08E-09 | 3.01E-09 | 5.96E-08 |
| 2274 | 257449.9 | 4085605.69 | 3.7827E-08 | 5.05E-07 | 6.83E-08 | 6.83E-08 | 4.92E-09 | 7.89E-07 | 5.74E-09 | 7.70E-09 | 1.38E-08 | 1.38E-08 | 7.58E-09 | 1.18E-07 | 3.12E-09 | 4.16E-08 | 6.13E-09 | 6.13E-09 | 2.03E-09 | 6.01E-08 |
| 2375 | 257427.34 | 4085597.41 | 3.8161E-08 | 5.10E-07 | 8.90E-08 | 6.90E-08 | 4.96E-08 | 7.76E-07 | 5.79E-09 | 7.77E-08 | 1.29E-08 | 1.39E-08 | 7.84E-09 | 1.19E-07 | 3.15E-09 | 4.20E-08 | 6.18E-09 | 6.18E-09 | 3.06E-09 | 6.06E-08 |
| 2376 | 257404.72 | 4085589.17 | 2.6288E-08 | 5.11E-07 | 8.93E-08 | 8.93E-08 | 4.98E-08 | 7.78E-07 | 5.81E-09 | 7.79E-08 | 1.39E-08 | 1.39E-08 | 7.67E-09 | 1.19E-07 | 3.16E-09 | 4.22E-08 | 6.21E-09 | 6.21E-09 | 3.07E-09 | 6.08E-08 |
| 2272 | 257382.21 | 4085580.93 | 2.8257E-09 | 5.11E-07 | 8.93E-08 | 8.93E-08 | 4.98E-08 | 7.78E-07 | 5.81E-09 | 7.79E-08 | 1.39E-08 | 1.39E-08 | 7.66E-09 | 1.19E-07 | 3.15E-09 | 4.21E-08 | 6.20E-09 | 6.20E-09 | 2.07E-09 | 6.07E-08 |
| 2278 | 257259.65 | 4085572.68 | 2.8046E-08 | 5.08E-07 | 8.88E-08 | 8.88E-08 | 4.95E-08 | 7.73E-07 | 5.72E-09 | 7.74E-08 | 1.39E-08 | 1.39E-08 | 7.62E-09 | 1.19E-07 | 3.14E-09 | 4.19E-08 | 6.17E-09 | 6.17E-09 | 3.05E-09 | 6.04E-08 |
| 2279 | 257337.08 | 4085564.44 | 2.7621E-08 | 5.03E-07 | 8.78E-08 | 8.78E-08 | 4.89E-08 | 7.65E-07 | 5.71E-09 | 7.66E-08 | 1.27E-08 | 1.37E-08 | 7.53E-09 | 1.17E-07 | 2.10E-09 | 4.14E-08 | 6.10E-09 | 6.10E-09 | 2.02E-09 | 5.97E-08 |
| 2280 | 257214.52 | 4085556.2 | 2.6996E-08 | 4.94E-07 | 8.63E-08 | 6.63E-08 | 4.81E-08 | 7.52E-07 | 5.61E-09 | 7.53E-08 | 1.25E-08 | 1.35E-08 | 7.41E-09 | 1.13E-07 | 3.05E-09 | 4.07E-08 | 6.00E-09 | 6.00E-09 | 2.97E-09 | 5.87E-08 |
| 2281 | 257291.96 | 4085547.96 | 2.8213E-08 | 4.84E-07 | 8.45E-08 | 8.45E-08 | 4.71E-08 | 7.36E-07 | 5.50E-09 | 7.37E-08 | 1.32E-08 | 1.32E-08 | 7.25E-09 | 1.13E-07 | 2.99E-09 | 3.99E-08 | 5.87E-09 | 5.87E-09 | 2.91E-09 | 5.75E-08 |
| 2282 | 257269.39 | 4085539.71 | 2.5316E-08 | 4.72E-07 | 8.24E-08 | 8.24E-08 | 4.59E-08 | 7.18E-07 | 5.36E-09 | 7.19E-08 | 1.29E-08 | 1.29E-08 | 7.07E-09 | 1.10E-07 | 2.91E-09 | 3.89E-08 | 5.72E-09 | 5.72E-09 | 2.83E-09 | 5.61E-08 |
| 2383 | 257246.83 | 4085521.47 | 2.4347E-08 | 4.59E-07 | 8.01E-08 | 6.01E-08 | 4.47E-08 | 6.98E-07 | 5.21E-09 | 6.99E-08 | 1.25E-08 | 1.25E-08 | 6.88E-09 | 1.07E-07 | 2.83E-09 | 3.78E-08 | 5.57E-09 | 5.57E-09 | 2.76E-09 | 5.43E-08 |
| 2384 | 257214.22 | 4085501.41 | 2.3542E-08 | 4.48E-07 | 7.83E-08 | 7.83E-08 | 4.36E-08 | 6.82E-07 | 5.09E-09 | 6.83E-08 | 1.22E-08 | 1.22E-08 | 6.72E-09 | 1.04E-07 | 2.76E-09 | 3.69E-08 | 5.44E-09 | 5.44E-09 | 2.69E-09 | 5.33E-08 |
| 2385 | 257204.17 | 4085479.59 | 2.2562E-09 | 4.48E-07 | 7.83E-08 | 7.83E-08 | 4.37E-08 | 6.82E-07 | 5.09E-09 | 6.83E-08 | 1.22E-08 | 1.22E-08 | 6.72E-09 | 1.05E-07 | 2.77E-09 | 3.70E-08 | 5.44E-09 | 5.44E-09 | 2.69E-09 | 5.33E-08 |
| 2386 | 257194.12 | 4085457.72 | 2.2337E-08 | 4.45E-07 | 7.76E-08 | 7.78E-08 | 4.34E-08 | 6.78E-07 | 5.05E-09 | 6.78E-08 | 1.21E-08 | 1.21E-08 | 6.68E-09 | 1.04E-07 | 2.75E-09 | 3.67E-08 | 5.40E-09 | 5.40E-09 | 2.67E-09 | 5.29E-08 |
| 2387 | 257184.08 | 4085425.95 | 3.2813E-08 | 4.38E-07 | 7.66E-09 | 7.66E-08 | 4.27E-08 | 6.67E-07 | 4.98E-09 | 6.68E-08 | 1.20E-08 | 1.20E-09 | 6.57E-09 | 1.02E-07 | 2.70E-09 | 3.61E-08 | 5.32E-09 | 5.32E-09 | 2.63E-09 | 5.21E-08 |
| 2388 | 257174.03 | 4085414.13 | 3.1949E-08 | 4.27E-07 | 7.45E-08 | 7.45E-08 | 4.16E-08 | 6.49E-07 | 4.85E-09 | 6.50E-08 | 1.16E-08 | 1.16E-08 | 6.40E-09 | 9.95E-08 | 2.83E-09 | 3.52E-08 | 5.16E-09 | 5.16E-09 | 2.36E-09 | 5.07E-08 |
| 2389 | 257162.98 | 4085392.21 | 3.0734E-08 | 4.11E-07 | 7.17E-08 | 7.17E-08 | 4.00E-08 | 6.25E-07 | 4.68E-09 | 6.35E-08 | 1.12E-08 | 1.12E-08 | 6.16E-09 | 9.36E-08 | 2.52E-09 | 3.38E-08 | 4.98E-09 | 4.98E-09 | 2.47E-09 | 4.88E-08 |
| 2290 | 257153.93 | 4085270.49 | 2.9179E-08 | 3.90E-07 | 6.81E-08 | 6.81E-08 | 3.80E-08 | 5.93E-07 | 4.42E-09 | 5.94E-08 | 1.06E-08 | 1.08E-08 | 5.84E-09 | 9.09E-08 | 2.41E-09 | 3.21E-08 | 4.73E-09 | 4.73E-09 | 2.34E-09 | 4.61E-08 |
| 2291 | 257143.88 | 4085348.67 | 2.7341E-08 | 2.65E-07 | 6.38E-08 | 6.38E-08 | 2.56E-08 | 5.56E-07 | 4.15E-09 | 5.56E-08 | 9.96E-09 | 9.96E-09 | 5.48E-09 | 8.52E-08 | 2.25E-09 | 3.01E-08 | 4.43E-09 | 4.43E-09 | 2.19E-09 | 4.34E-08 |
| 2292 | 257122.84 | 4085226.85 | 2.5311E-08 | 3.38E-07 | 5.91E-08 | 5.91E-08 | 2.29E-08 | 5.14E-07 | 3.84E-09 | 5.15E-08 | 9.27E-09 | 9.22E-09 | 5.07E-09 | 7.89E-08 | 2.09E-09 | 2.79E-08 | 4.10E-09 | 4.10E-09 | 2.03E-09 | 4.03E-08 |
| 2293 | 257123.79 | 4085305.03 | 2.321E-08 | 3.10E-07 | 5.42E-08 | 5.42E-08 | 3.02E-08 | 4.72E-07 | 3.52E-09 | 4.72E-08 | 8.45E-09 | 6.45E-09 | 4.65E-09 | 7.23E-08 | 1.91E-09 | 2.56E-08 | 3.76E-09 | 3.76E-09 | 1.66E-09 | 3.69E-08 |
| 2294 | 257113.74 | 4085283.21 | 2.1151E-08 | 2.83E-07 | 4.93E-08 | 4.93E-08 | 2.75E-08 | 4.30E-07 | 3.21E-09 | 4.30E-08 | 7.70E-09 | 7.70E-09 | 4.24E-09 | 6.59E-08 | 1.74E-09 | 2.22E-08 | 3.43E-09 | 3.43E-09 | 1.70E-09 | 3.36E-09 |
| 2395 | 257103.69 | 4085261.39 | 1.9229E-08 | 2.57E-07 | 4.49E-08 | 4.49E-08 | 2.50E-08 | 3.91E-07 | 2.92E-09 | 3.91E-08 | 7.00E-09 | 7.00E-09 | 3.83E-09 | 5.99E-08 | 1.59E-09 | 2.12E-09 | 2.12E-09 | 3.12E-09 | 1.34E-09 | 3.05E-08 |
| 2296 | 257092.65 | 4085239.57 | 1.7503E-08 | 2.34E-07 | 4.08E-08 | 4.08E-08 | 2.28E-08 | 3.56E-07 | 2.66E-09 | 3.56E-08 | 6.38E-09 | 6.38E-09 | 3.51E-09 | 5.45E-08 | 1.44E-09 | 1.93E-08 | 2.84E-09 | 2.84E-09 | 1.40E-09 | 2.78E-08 |
| 2397 | 257083.8 | 4085217.75 | 1.6026E-08 | 2.14E-07 | 3.74E-08 | 3.74E-08 | 2.08E-08 | 3.26E-07 | 2.43E-09 | 3.26E-08 | 5.84E-09 | 5.84E-09 | 3.21E-09 | 4.99E-08 | 1.32E-09 | 1.76E-08 | 2.60E-09 | 2.60E-09 | 3.29E-09 | 2.34E-08 |
| 2398 | 257072.55 | 4085195.92 | 1.4792E-08 | 1.98E-07 | 2.45E-08 | 3.45E-08 | 1.92E-08 | 3.01E-07 | 2.24E-09 | 2.01E-08 | 5.39E-09 | 5.35E-09 | 2.96E-09 | 4.61E-08 | 1.22E-09 | 1.63E-08 | 2.40E-09 | 2.40E-09 | 1.19E-09 | 2.35E-08 |
| 2299 | 257585.26 | 4085655.11 | 2.4702E-08 | 4.64E-07 | 6.10E-08 | 8.10E-08 | 4.51E-08 | 7.05E-07 | 5.37E-09 | 7.05E-08 | 1.26E-08 | 1.36E-08 | 6.95E-09 | 1.08E-07 | 2.88E-09 | 2.82E-08 | 5.82E-09 | 5.61E-09 | 2.78E-09 | 5.51E-09 |
| 2400 | 257609.57 | 4085654.02 | 2.4864E-08 | 4.66E-07 | 6.13E-09 | 6.12E-08 | 4.52E-08 | 7.09E-07 | 5.29E-09 | 7.09E-08 | 1.27E-08 | 1.27E-09 | 6.98E-09 | 1.09E-07 | 2.87E-09 | 3.84E-08 | 5.65E-09 | 5.55E-09 | 2.80E-09 | 5.54E-08 |
| 2401 | 257633.85 | 4085652.96 | 3.493E-08 | 4.87E-07 | 8.15E-08 | 6.15E-08 | 4.55E-08 | 7.10E-07 | 5.30E-09 | 7.11E-08 | 1.27E-08 | 1.27E-08 | 7.00E-09 | 1.09E-07 | 2.88E-09 | 3.85E-08 | 5.66E-09 | 5.66E-09 | 2.80E-09 | 5.55E-08 |
| 2402 | 257658.13 | 4085651.88 | 3.4957E-08 | 4.67E-07 | 8.16E-08 | 8.16E-08 | 4.55E-08 | 7.10E-07 | 5.31E-09 | 7.11E-08 | 1.27E-08 | 1.27E-08 | 7.00E-09 | 1.09E-07 | 2.88E-09 | 3.85E-08 | 5.87E-09 | 5.07E-09 | 2.80E-09 | 5.55E-08 |
| 2403 | 257682.41 | 4085650.81 | 3.4883E-08 | 4.66E-07 | 8.14E-08 | 8.14E-08 | 4.54E-08 | 7.09E-07 | 5.29E-09 | 7.10E-08 | 1.37E-08 | 1.37E-08 | 6.99E-09 | 1.09E-07 | 2.88E-09 | 3.84E-08 | 5.65E-09 | 5.85E-09 | 2.80E-09 | 5.54E-08 |
| 2404 | 257706.69 | 4085649.72 | 2.4735E-08 | 4.64E-07 | 8.10E-08 | 8.10E-08 | 4.52E-08 | 7.05E-07 | 5.27E-09 | 7.07E-08 | 1.37E-08 | 1.27E-08 | 6.96E-09 | 1.08E-07 | 2.85E-09 | 3.82E-08 | 5.61E-09 | 5.61E-09 | 2.79E-09 | 5.52E-08 |
| 2405 | 257220.97 | 4085646.66 | 3.4516E-08 | 4.61E-07 | 6.05E-08 | 6.05E-08 | 4.49E-08 | 7.02E-07 | 5.24E-09 | 7.02E-08 | 1.26E-08 | 1.26E-08 | 6.91E-09 | 1.08E-07 | 2.85E-09 | 3.80E-08 | 5.59E-09 | 5.59E-09 | 2.77E-09 | 5.48E-08 |
| 2406 | 257755.26 | 4085647.58 | 3.4232E-08 | 4.58E-07 | 7.99E-08 | 7.99E-08 | 4.46E-08 | 6.96E-07 | 5.20E-09 | 6.97E-08 | 1.25E-08 | 1.35E-09 | 6.86E-09 | 1.07E-07 | 2.82E-09 | 3.72E-08 | 5.55E-09 | 5.55E-09 | 2.75E-09 | 5.44E-08 |
| 2407 | 257779.54 | 4085646.51 | 3.3942E-08 | 4.53E-07 | 7.92E-08 | 7.91E-08 | 4.42E-08 | 6.90E-07 | 5.15E-09 | 6.91E-08 | 1.24E-08 | 1.24E-08 | 6.80E-09 | 1.06E-07 | 2.80E-09 | 3.74E-08 | 5.50E-09 | 5.50E-09 | 2.72E-09 | 5.29E-08 |
| 2408 | 257803.82 | 4085645.43 | 3.3614E-08 | 4.49E-07 | 7.84E-08 | 7.84E-08 | 4.37E-08 | 6.83E-07 | 5.10E-09 | 6.84E-08 | 1.32E-08 | 1.22E-08 | 6.73E-09 | 1.05E-07 | 2.77E-09 | 3.70E-08 | 5.45E-09 | 5.45E-09 | 2.70E-09 | 5.34E-08 |
| 2409 | 257628.1 | 4085644.36 | 3.223E-08 | 4.44E-07 | 7.76E-08 | 7.78E-08 | 4.32E-08 | 8.76E-07 | 5.05E-09 | 6.77E-08 | 1.21E-08 | 1.21E-08 | 6.66E-09 | 1.04E-07 | 2.74E-09 | 3.68E-08 | 5.29E-09 | 5.39E-09 | 2.87E-09 | 5.28E-08 |
| 2410 | 257852.38 | 4085643.26 | 3.2842E-08 | 4.29E-07 | 7.66E-08 | 7.68E-09 | 4.27E-09 | 6.67E-07 | 4.98E-09 | 6.68E-08 | 1.20E-08 | 1.20E-08 | 6.58E-09 | 1.02E-07 | 2.71E-09 | 3.62E-08 | 5.32E-09 | 5.32E-09 | 2.61E-09 | 5.21E-08 |
| 2411 | 257676.67 | 4085642.2 | 3.2108E-08 | 4.32E-07 | 7.54E-08 | 7.34E-08 | 4.20E-09 | 6.57E-07 | 4.90E-09 | 6.57E-08 | 1.18E-08 | 1.18E-08 | 6.47E-09 | 1.01E-07 | 2.66E-09 | 3.56E-08 | 5.24E-09 | 5.34E-09 | 2.59E-09 | 5.11E-08 |
| 2412 | 257900.95 | 4085641.13 | 3.1736E-09 | 4.24E-07 | 7.40E-08 | 7.40E-08 | 4.12E-08 | 6.43E-07 | 4.82E-09 | 6.46E-08 | 1.16E-08 | 1.16E-08 | 6.36E-09 | 9.89E-08 | 2.62E-09 | 3.49E-08 | 5.14E-09 | 5.34E-09 | 2.55E-09 | 5.04E-08 |
| 2413 | 257925.23 | 4085640.05 | 3.1183E-08 | 4.16E-07 | 7.26E-08 | 7.26E-08 | 4.05E-08 | 6.31E-07 | 4.72E-09 | 6.34E-08 | 1.13E-08 | 1.13E-08 | 6.23E-09 | 9.70E-08 | 2.57E-09 | 3.43E-08 | 5.05E-09 | 5.05E-09 | 2.50E-09 | 4.94E-08 |
| 2414 | 257949.51 | 4085638.98 | 3.0442E-08 | 4.07E-07 | 7.10E-08 | 7.10E-08 | 2.96E-08 | 6.19E-07 | 4.62E-09 | 6.19E-08 | 1.11E-08 | 1.11E-08 | 6.10E-09 | 9.48E-08 | 2.51E-09 | 3.35E-08 | 4.93E-09 | 4.93E-09 | 2.44E-09 | 4.83E-08 |
| 2415 | 257972.79 | 4085427.9 | 2.9675E-08 | 3.96E-07 | 8.92E-08 | 6.92E-08 | 3.86E-08 | 6.03E-07 | 4.50E-09 | 6.04E-08 | 1.08E-08 | 1.08E-08 | 5.94E-09 | 9.25E-08 | 2.45E-09 | 3.27E-08 | 4.61E-09 | 4.61E-09 | 2.38E-09 | 4.71E-08 |
| 2416 | 257998.07 | 4085636.83 | 2.8875E-08 | 2.88E-07 | 6.74E-08 | 6.74E-08 | 3.76E-08 | 5.67E-07 | 4.38E-09 | 5.88E-08 | 1.05E-08 | 1.05E-08 | 5.78E-09 | 9.00E-09 | 2.38E-09 | 3.18E-08 | 4.66E-09 | 4.66E-09 | 2.32E-09 | 4.58E-08 |
| 2417 | 258022.36 | 4085625.75 | 2.7926E-08 | 3.74E-07 | 8.53E-08 | 6.53E-08 | 3.84E-08 | 5.69E-07 | 4.25E-09 | 5.69E-08 | 1.02E-08 | 1.02E-08 | 5.60E-09 | 8.72E-08 | 2.31E-09 | 3.08E-08 | 4.54E-09 | 4.54E-09 | 2.25E-09 | 4.44E-09 |
| 2418 | 258046.84 | 4085634.68 | 2.7038E-08 | 3.61E-07 | 6.31E-08 | 8.31E-08 | 3.32E-08 | 5.50E-07 | 4.10E-09 | 5.50E-08 | 9.85E-09 | 9.85E-09 | 5.42E-09 | 8.42E-08 | 2.23E-09 | 2.98E-08 | 4.38E-09 | 4.38E-09 | 2.17E-09 | 4.29E-08 |
| 2419 | 258070.92 | 4085633.8 | 2.6076E-09 | 3.48E-07 | 8.08E-08 | 6.08E-08 | 3.39E-08 | 5.30E-07 | 3.96E-09 | 5.21E-09 | 9.50E-09 | 9.50E-09 | 5.22E-09 | 8.12E-08 | 2.13E-09 | 2.87E-08 | 4.23E-09 

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2211 | 257551.66 | 4085397.11 | 6.4273E-08 | 1.13E-06 | 1.97E-07 | 1.97E-07 | 1.10E-07 | 1.71E-06 | 1.28E-08 | 1.71E-07 | 3.07E-08 | 3.07E-08 | 1.69E-06 | 2.63E-07 | 6.95E-09 | 9.28E-08 | 1.37E-08 | 1.37E-08 | 6.76E-09 | 1.34E-07 |
| 2212 | 257529.09 | 4085388.87 | 8.4256E-08 | 1.13E-09 | 1.97E-07 | 1.97E-07 | 1.10E-07 | 1.71E-09 | 1.26E-08 | 1.71E-07 | 3.07E-08 | 2.07E-09 | 1.69E-08 | 2.63E-07 | 8.95E-09 | 9.26E-08 | 1.37E-08 | 1.37E-08 | 6.76E-09 | 1.34E-07 |
| 2213 | 257506.53 | 4085380.63 | 6.3621E-08 | 1.12E-06 | 1.95E-07 | 1.95E-07 | 1.09E-07 | 1.70E-06 | 1.27E-08 | 1.70E-07 | 3.05E-08 | 3.05E-08 | 1.67E-08 | 2.61E-07 | 6.89E-09 | 9.21E-08 | 1.36E-08 | 1.36E-08 | 6.71E-09 | 1.33E-07 |
| 2214 | 257483.97 | 4085372.38 | 6.2543E-08 | 1.10E-06 | 1.92E-07 | 1.92E-07 | 1.07E-07 | 1.67E-06 | 1.25E-08 | 1.68E-07 | 3.00E-08 | 3.00E-08 | 1.65E-08 | 2.57E-07 | 6.79E-09 | 9.07E-08 | 1.22E-09 | 1.33E-09 | 6.61E-09 | 1.31E-07 |
| 2215 | 257461.4 | 4085364.14 | 6.031E-08 | 1.07E-06 | 1.87E-07 | 1.87E-07 | 1.04E-07 | 1.63E-06 | 1.22E-08 | 1.63E-07 | 2.93E-08 | 2.92E-08 | 1.61E-08 | 2.50E-07 | 6.62E-09 | 8.84E-08 | 1.30E-06 | 1.30E-08 | 6.44E-09 | 1.28E-07 |
| 2216 | 257458.84 | 4085355.9 | 7.7422E-08 | 1.03E-09 | 1.61E-07 | 1.81E-07 | 1.01E-07 | 1.57E-09 | 1.16E-08 | 1.58E-07 | 2.82E-08 | 2.83E-09 | 1.55E-08 | 2.41E-07 | 8.38E-09 | 8.52E-08 | 1.25E-08 | 1.25E-08 | 6.21E-09 | 1.23E-07 |
| 2217 | 257416.26 | 4085347.66 | 7.3801E-08 | 9.86E-07 | 1.72E-07 | 1.72E-07 | 9.60E-08 | 1.50E-06 | 1.12E-08 | 1.50E-07 | 2.69E-08 | 2.69E-08 | 1.46E-08 | 2.30E-07 | 6.08E-09 | 8.13E-08 | 1.20E-08 | 1.20E-08 | 5.92E-09 | 1.17E-07 |
| 2216 | 257363.67 | 4085317.59 | 6.9977E-08 | 9.33E-07 | 1.63E-07 | 1.62E-07 | 9.10E-08 | 1.42E-06 | 1.06E-08 | 1.42E-07 | 2.55E-08 | 2.55E-08 | 1.40E-08 | 2.18E-07 | 5.77E-09 | 7.70E-08 | 1.13E-08 | 1.13E-08 | 5.61E-09 | 1.11E-07 |
| 2219 | 257373.82 | 4085295.77 | 6.9253E-08 | 9.25E-07 | 1.62E-07 | 1.61E-07 | 9.01E-09 | 1.41E-09 | 1.05E-08 | 1.41E-07 | 2.52E-08 | 2.52E-09 | 1.39E-08 | 2.18E-07 | 5.71E-09 | 7.62E-08 | 1.12E-09 | 1.12E-09 | 5.56E-09 | 1.10E-07 |
| 2220 | 257363.57 | 4085273.96 | 6.7158E-08 | 6.97E-07 | 1.57E-07 | 1.57E-07 | 6.74E-08 | 1.36E-06 | 1.02E-08 | 1.37E-07 | 2.43E-08 | 2.43E-09 | 1.34E-08 | 2.09E-07 | 5.54E-09 | 7.39E-09 | 1.09E-09 | 1.09E-06 | 5.39E-09 | 1.07E-07 |
| 2221 | 257153.52 | 4085252.14 | 6.3588E-08 | 8.49E-07 | 1.48E-07 | 1.48E-07 | 8.27E-08 | 1.29E-09 | 9.65E-09 | 1.29E-07 | 2.32E-08 | 2.32E-09 | 1.27E-08 | 1.98E-07 | 5.24E-09 | 7.00E-08 | 1.02E-06 | 1.03E-08 | 5.10E-09 | 1.01E-07 |
| 2222 | 257343.47 | 4085210.32 | 5.8761E-08 | 7.05E-07 | 1.37E-07 | 1.37E-07 | 7.65E-08 | 1.19E-06 | 8.93E-09 | 1.20E-07 | 2.14E-08 | 2.14E-09 | 1.18E-08 | 1.83E-07 | 4.85E-09 | 6.47E-08 | 9.51E-09 | 9.51E-09 | 4.72E-09 | 9.31E-08 |
| 2223 | 257333.43 | 4085208.5 | 5.3217E-08 | 7.11E-07 | 1.24E-07 | 1.24E-07 | 6.92E-08 | 1.08E-06 | 8.08E-09 | 1.08E-07 | 1.94E-08 | 1.94E-08 | 1.07E-08 | 1.66E-07 | 4.39E-09 | 5.66E-08 | 6.62E-09 | 6.63E-09 | 4.27E-09 | 6.45E-08 |
| 2224 | 257323.38 | 4085186.68 | 4.7386E-08 | 6.33E-07 | 1.11E-07 | 1.11E-07 | 6.16E-08 | 9.63E-07 | 7.19E-09 | 9.64E-08 | 1.73E-08 | 1.73E-08 | 9.49E-09 | 1.48E-07 | 3.91E-09 | 5.22E-08 | 7.68E-09 | 7.68E-09 | 3.80E-09 | 7.52E-08 |
| 2225 | 257574.22 | 4085405.36 | 6.3688E-08 | 1.12E-06 | 1.95E-07 | 1.95E-07 | 1.09E-07 | 1.70E-06 | 1.27E-08 | 1.70E-07 | 3.05E-08 | 3.05E-08 | 1.68E-08 | 2.61E-07 | 6.90E-09 | 9.21E-08 | 1.36E-08 | 1.36E-08 | 6.71E-09 | 1.33E-07 |
| 2226 | 257598.5 | 4085404.28 | 8.6133E-08 | 1.16E-06 | 2.01E-07 | 2.01E-07 | 1.12E-07 | 1.75E-06 | 1.31E-08 | 1.75E-07 | 3.14E-08 | 3.14E-08 | 1.72E-08 | 2.68E-07 | 7.10E-09 | 9.48E-08 | 1.40E-08 | 1.40E-08 | 6.91E-09 | 1.37E-07 |
| 2227 | 257622.79 | 4085403.2 | 6.8167E-08 | 1.18E-06 | 2.06E-07 | 2.05E-07 | 1.25E-07 | 1.79E-09 | 1.34E-08 | 1.79E-07 | 3.21E-08 | 3.21E-09 | 1.77E-08 | 2.75E-07 | 7.27E-09 | 9.71E-08 | 1.42E-08 | 1.43E-08 | 7.07E-09 | 1.40E-07 |
| 2226 | 257647.07 | 4085402.13 | 6.975E-08 | 1.20E-09 | 2.09E-07 | 3.09E-07 | 1.17E-07 | 1.82E-09 | 1.36E-08 | 1.83E-07 | 3.27E-08 | 3.27E-08 | 1.80E-09 | 2.80E-07 | 7.40E-09 | 9.89E-08 | 1.48E-08 | 1.46E-08 | 7.20E-09 | 1.43E-07 |
| 2229 | 257671.35 | 4085401.05 | 9.1077E-08 | 1.22E-06 | 2.12E-07 | 2.12E-07 | 1.18E-07 | 1.85E-06 | 1.38E-08 | 1.85E-07 | 3.32E-08 | 3.32E-08 | 1.81E-08 | 2.84E-07 | 7.51E-09 | 1.00E-07 | 1.48E-08 | 1.48E-08 | 7.31E-09 | 1.45E-07 |
| 2230 | 257695.62 | 4085399.98 | 9.2002E-08 | 1.21E-06 | 2.15E-07 | 2.13E-07 | 1.20E-07 | 1.87E-06 | 1.40E-08 | 1.87E-07 | 3.35E-08 | 3.35E-09 | 1.84E-08 | 2.87E-07 | 7.58E-09 | 1.01E-07 | 1.49E-08 | 1.49E-06 | 7.38E-09 | 1.46E-07 |
| 2231 | 257719.91 | 4085398.9 | 9.2274E-06 | 1.23E-06 | 2.15E-07 | 2.15E-07 | 1.20E-07 | 1.88E-06 | 1.40E-08 | 1.88E-07 | 3.36E-08 | 3.36E-08 | 1.85E-08 | 2.87E-07 | 7.61E-09 | 1.02E-07 | 1.50E-08 | 1.50E-06 | 7.40E-09 | 1.47E-07 |
| 2232 | 257744.19 | 4085397.83 | 9.2769E-08 | 1.24E-08 | 2.16E-07 | 2.16E-07 | 1.21E-07 | 1.89E-06 | 1.41E-08 | 1.89E-07 | 3.38E-08 | 2.38E-06 | 1.86E-08 | 2.89E-07 | 7.65E-09 | 1.02E-07 | 1.50E-06 | 1.50E-08 | 7.44E-09 | 1.47E-07 |
| 2233 | 257768.48 | 4085396.75 | 9.2992E-08 | 1.24E-09 | 2.17E-07 | 2.17E-07 | 1.21E-07 | 1.89E-09 | 1.41E-08 | 1.89E-07 | 3.39E-08 | 3.39E-09 | 1.86E-08 | 2.90E-07 | 7.67E-09 | 1.02E-07 | 1.51E-08 | 1.51E-08 | 7.46E-09 | 1.48E-07 |
| 2254 | 257792.76 | 4085395.68 | 9.2922E-08 | 1.24E-09 | 2.17E-07 | 2.17E-07 | 1.21E-07 | 1.89E-06 | 1.41E-08 | 1.89E-07 | 3.38E-08 | 3.38E-08 | 1.86E-08 | 2.90E-07 | 7.66E-09 | 1.02E-07 | 1.51E-06 | 1.51E-08 | 7.45E-09 | 1.48E-07 |
| 2235 | 257817.04 | 4085394.6 | 9.2589E-08 | 1.24E-09 | 2.16E-07 | 2.16E-07 | 1.20E-07 | 1.88E-06 | 1.41E-08 | 1.88E-07 | 3.37E-08 | 2.37E-09 | 1.85E-08 | 2.68E-07 | 7.63E-09 | 1.02E-07 | 1.50E-09 | 1.50E-08 | 7.43E-09 | 1.47E-07 |
| 2236 | 257841.32 | 4085393.53 | 9.1999E-08 | 1.23E-09 | 2.15E-07 | 2.15E-07 | 1.20E-07 | 1.87E-06 | 1.40E-08 | 1.87E-07 | 3.35E-09 | 3.35E-09 | 1.84E-08 | 2.87E-07 | 7.58E-09 | 1.01E-07 | 1.49E-09 | 1.49E-09 | 7.38E-09 | 1.48E-07 |
| 2237 | 257865.6 | 4085392.45 | 9.118E-08 | 1.22E-09 | 2.13E-07 | 2.13E-07 | 1.19E-07 | 1.85E-09 | 1.38E-08 | 1.68E-07 | 3.32E-08 | 3.32E-09 | 1.81E-08 | 2.84E-07 | 7.52E-09 | 1.00E-07 | 1.46E-08 | 1.46E-08 | 7.31E-09 | 1.43E-07 |
| 2238 | 257889.89 | 4085391.37 | 9.0142E-09 | 1.20E-09 | 2.10E-07 | 2.10E-07 | 1.17E-07 | 1.82E-09 | 1.37E-08 | 1.83E-07 | 3.28E-08 | 3.26E-08 | 1.61E-08 | 2.81E-07 | 7.43E-09 | 9.93E-08 | 1.46E-08 | 1.46E-08 | 7.22E-09 | 1.43E-07 |
| 2239 | 257914.17 | 4085390.3 | 6.8892E-08 | 1.19E-09 | 2.07E-07 | 2.07E-07 | 1.16E-07 | 1.81E-09 | 1.35E-08 | 1.81E-07 | 3.24E-08 | 3.24E-08 | 1.78E-08 | 2.77E-07 | 7.33E-09 | 9.79E-08 | 1.44E-08 | 1.44E-08 | 7.13E-09 | 1.41E-07 |
| 2240 | 257938.45 | 4085389.22 | 6.7447E-09 | 1.17E-09 | 2.04E-07 | 2.04E-07 | 1.14E-07 | 1.78E-09 | 1.33E-08 | 1.78E-07 | 3.19E-08 | 3.19E-08 | 1.75E-08 | 2.72E-07 | 7.21E-09 | 9.63E-08 | 1.42E-08 | 1.42E-08 | 7.02E-09 | 1.39E-07 |
| 2241 | 257962.73 | 4085388.15 | 6.5805E-08 | 1.18E-09 | 2.00E-07 | 2.00E-07 | 1.22E-07 | 1.74E-06 | 1.30E-08 | 1.75E-07 | 3.13E-08 | 3.13E-09 | 1.72E-08 | 2.67E-07 | 7.07E-09 | 9.45E-08 | 1.29E-09 | 1.39E-09 | 6.88E-09 | 1.36E-07 |
| 2242 | 257967.01 | 4085387.07 | 6.397E-08 | 1.12E-06 | 1.98E-07 | 1.96E-07 | 1.09E-07 | 1.71E-09 | 1.27E-08 | 1.71E-07 | 3.06E-08 | 3.06E-09 | 1.66E-09 | 2.62E-07 | 8.92E-09 | 9.25E-08 | 1.38E-09 | 1.38E-09 | 6.74E-09 | 1.33E-07 |
| 2243 | 258011.29 | 4085386 | 6.1944E-08 | 1.09E-06 | 1.91E-07 | 1.91E-07 | 1.07E-07 | 1.67E-06 | 1.24E-08 | 1.67E-07 | 2.99E-08 | 2.99E-09 | 1.64E-09 | 2.55E-07 | 6.75E-09 | 9.02E-08 | 1.32E-08 | 1.23E-08 | 6.57E-09 | 1.30E-07 |
| 2244 | 258035.58 | 4085384.92 | 7.9719E-08 | 1.06E-06 | 1.66E-07 | 1.66E-07 | 1.04E-07 | 1.82E-09 | 1.21E-09 | 1.62E-07 | 2.90E-08 | 2.90E-08 | 1.60E-08 | 2.48E-07 | 6.57E-09 | 8.78E-08 | 1.29E-08 | 1.29E-08 | 6.40E-09 | 1.27E-07 |
| 2245 | 258059.86 | 4085383.85 | 7.7283E-08 | 1.03E-09 | 1.60E-07 | 1.60E-07 | 1.01E-07 | 1.57E-09 | 1.17E-08 | 1.57E-07 | 2.82E-08 | 2.82E-08 | 1.55E-08 | 2.41E-07 | 6.37E-09 | 8.51E-08 | 1.25E-09 | 1.23E-08 | 6.20E-09 | 1.23E-07 |
| 2246 | 258084.14 | 4085382.72 | 7.4622E-08 | 9.97E-07 | 1.74E-07 | 1.74E-07 | 9.71E-08 | 1.52E-06 | 1.13E-08 | 1.52E-07 | 3.72E-06 | 2.72E-08 | 1.49E-08 | 3.33E-07 | 6.15E-09 | 8.22E-09 | 1.21E-08 | 1.21E-08 | 5.99E-09 | 1.18E-07 |
| 2247 | 258108.42 | 4085381.7 | 7.1724E-08 | 9.56E-07 | 1.67E-07 | 1.67E-07 | 9.33E-08 | 1.46E-09 | 1.09E-08 | 1.46E-07 | 2.61E-08 | 2.61E-08 | 1.44E-08 | 2.23E-07 | 5.91E-09 | 7.90E-08 | 1.16E-08 | 1.16E-08 | 5.75E-09 | 1.14E-07 |
| 2248 | 258132.7 | 4085380.62 | 6.8573E-08 | 9.18E-07 | 1.60E-07 | 1.60E-07 | 6.92E-06 | 1.39E-06 | 1.04E-06 | 1.40E-07 | 2.50E-08 | 2.50E-08 | 1.37E-09 | 2.14E-07 | 5.65E-09 | 7.55E-08 | 1.11E-08 | 1.11E-08 | 5.50E-09 | 1.09E-07 |
| 2249 | 258156.99 | 4085379.54 | 6.5186E-08 | 8.71E-07 | 1.52E-07 | 1.52E-07 | 8.48E-08 | 1.32E-06 | 9.89E-09 | 1.33E-07 | 2.37E-08 | 2.37E-08 | 1.31E-08 | 2.03E-07 | 5.37E-09 | 7.18E-08 | 1.06E-08 | 1.06E-08 | 5.23E-09 | 1.04E-07 |
| 2250 | 258161.27 | 4085378.47 | 8.1611E-08 | 8.21E-07 | 1.44E-07 | 1.44E-07 | 6.01E-06 | 1.25E-06 | 9.35E-09 | 1.25E-07 | 2.24E-08 | 2.24E-08 | 1.23E-08 | 1.92E-07 | 5.08E-09 | 6.78E-06 | 9.99E-09 | 9.99E-09 | 4.94E-09 | 9.78E-08 |
| 3351 | 258205.55 | 4085371.39 | 5.794E-06 | 7.74E-07 | 1.35E-07 | 1.35E-07 | 7.54E-08 | 1.18E-09 | 8.79E-09 | 1.18E-07 | 2.11E-06 | 2.11E-08 | 1.18E-08 | 1.81E-07 | 4.78E-09 | 6.38E-08 | 9.29E-09 | 9.39E-09 | 4.65E-09 | 9.20E-08 |
| 2252 | 258229.83 | 4085376.22 | 5.4264E-06 | 7.23E-07 | 1.27E-07 | 1.27E-07 | 7.06E-08 | 1.10E-06 | 8.24E-09 | 1.10E-07 | 1.98E-08 | 1.98E-06 | 1.09E-06 | 1.69E-07 | 4.47E-09 | 5.97E-08 | 6.79E-09 | 6.79E-09 | 4.33E-09 | 6.62E-08 |
| 3252 | 258254.11 | 4085375.24 | 5.0644E-06 | 6.78E-07 | 1.18E-07 | 1.16E-07 | 6.59E-09 | 1.03E-06 | 7.69E-09 | 1.03E-07 | 1.84E-08 | 1.84E-06 | 1.01E-06 | 1.58E-07 | 4.17E-09 | 5.58E-08 | 6.21E-09 | 6.21E-09 | 4.06E-09 | 6.04E-08 |
| 2254 | 258276.39 | 4085374.17 | 4.7067E-06 | 6.29E-07 | 1.10E-07 | 1.10E-07 | 8.12E-06 | 9.57E-07 | 7.14E-09 | 9.58E-09 | 1.71E-08 | 1.71E-08 | 9.41E-09 | 1.47E-07 | 3.88E-09 | 5.16E-08 | 7.63E-09 | 7.63E-09 | 3.78E-09 | 7.47E-08 |
| 3155 | 258302.68 | 4085373.09 | 4.3521E-08 | 5.61E-07 | 1.02E-07 | 1.02E-07 | 5.66E-08 | 6.05E-07 | 6.61E-09 | 6.68E-08 | 1.59E-08 | 1.59E-08 | 8.73E-09 | 1.36E-07 | 3.59E-09 | 4.79E-08 | 7.05E-09 | 7.05E-09 | 3.49E-09 | 6.91E-08 |
| 2256 | 258326.96 | 4085372.02 | 4.0052E-08 | 5.25E-07 | 9.54E-08 | 9.34E-08 | 5.21E-08 | 6.14E-07 | 6.08E-09 | 6.15E-08 | 1.48E-08 | 1.46E-08 | 6.03E-09 | 1.25E-07 | 3.30E-09 | 4.41E-08 | 8.49E-09 | 6.49E-09 | 3.21E-09 | 6.36E-08 |
| 2257 | 258351.24 | 4085370.94 | 3.6747E-08 | 4.91E-07 | 6.57E-08 | 8.57E-08 | 4.78E-08 | 7.47E-07 | 5.58E-09 | 7.48E-08 | 1.34E-08 | 1.34E-08 | 7.36E-09 | 1.14E-07 | 3.03E-09 | 4.05E-08 | 5.96E-09 | 5.96E-09 | 2.95E-09 | 5.83E-08 |
| 3258 | 358375.52 | 4085369.67 | 3.3684E-06 | 4.50E-07 | 7.86E-08 | 7.86E-08 | 4.38E-08 | 6.85E-07 | 5.11E-09 | 6.85E-09 | 1.22E-08 | 1.22E-09 | 6.75E-09 | 1.05E-07 | 2.76E-09 | 3.71E-08 | 5.46E-09 | 5.46E-09 | 2.70E-09 | 5.35E-08 |
| 2259 | 257554.71 | 4085447.39 | 6.9107E-09 | 9.23E-07 | 1.61E-07 | 1.61E-07 | 8.99E-08 | 1.40E-06 | 1.05E-08 | 1.41E-07 | 2.52E-08 | 2.52E-08 | 1.36E-09 | 2.15E-07 | 5.70E-09 | 7.61E-08 | 1.12E-08 | 1.12E-08 | 5.54E-09 | 1.10E-07 |
| 2260 | 257533.11 | 4085429.48 | 6.9517E-06 | 9.29E-07 | 1.62E-07 | 1.62E-07 | 9.04E-08 | 1.41E-09 | 1.06E-08 | 1.41E-07 | 2.53E-08 | 2.53E-08 | 1.39E-08 | 2.17E-07 | 5.73E-09 | 7.61E-08 | 1.13E-08 | 1.13E-08 | 5.56E-09 | 1.10E-07 |
| 2261 | 257511.45 | 4085431.57 | 6.9557E-06 | 9.29E-07 | 1.62E-07 | 1.62E-07 | 9.05E-06 | 1.41E-06 | 1.05E-08 | 1.42E-07 | 2.51E-08 | 2.51E-08 | 1.39E-09 | 2.17E-07 | 5.73E-09 | 7.66E-08 | 1.13E-08 | 1.13E-08 | 5.58E-09 | 1.10E-07 |
| 2262 | 257489.79 | 4085423.65 | 6.9226E-08 | 9.25E-07 | 1.62E-07 | 1.62E-07 | 9.00E-09 | 1.41E-09 | 1.05E-09 | 1.41E-07 | 2.52E-08 | 2.52E-08 | 1.39E-08 | 2.16E-07 | 5.71E-09 | 7.62E-08 | 1.12E-08 | 1.12E-08 | 5.55E-09 | 1.10E-07 |
| 2263 | 257468.13 | 4085415.74 | 6.8501E-09 | 9.13E-07 | 1.60E-07 | 1.60E-07 | 8.91E-09 | 1.39E-09 | 1.04E-09 | 1.39E-07 | 2.50E-08 | 2.50E-08 | 1.37E-09 | 2.13E-07 | 5.65E-09 | 7.54E-08 | 1.11E-08 | 1.11E-09 | 5.50E-09 | 1.09E-07 |
| 2264 | 357446.47 | 4085407.83 | 6.7316E-08 | 6.99E-07 | 1.57E-07 | 1.57E-07 | 8.76E-08 | 1.37E-06 | 1.02E-08 | 1.37E-07 | 2.45E-08 | 2.45E-08 | 1.35E-08 | 2.10E-07 | 5.55E-09 | 7.41E-08 | 1.09E-08 | 1.09E-08 | 5.40E-09 | 1.07E-07 |
| 2265 | 257424.61 | 4085299.92 | 8.5593E-08 | 6.76E-07 | 1.53E-07 | 1.53E-07 | 6.53E-09 | 1.33E-06 | 9.95E-09 | 1.33E-07 | 2.39E-08 | 2.39E-08 | 1.31E-09 | 2.04E-07 | 5.41E-09 | 7.22E-08 | 1.06E-08 | 1.06E-08 | 5.26E-09 | 1.04E-07 |
| 2266 | 257403.15 | 4085392 | 6.3348E-08 | 6.46E-07 | 1.48E-07 | 1.46E-07 | 6.34E-08 | 1.29E-06 | 9.61E-09 | 1.29E-07 | 2.31E-08 | 2.31E-08 | 1.27E-08 | 1.97E-07 | 5.22E-09 | 8.97E-08 | 1.03E-08 | 1.03E-08 | 5.08E-09 | 1.01E-07 |
| 2267 | 257381.48 | 4085384.09 | 6.0687E-08 | 6.11E-07 | 1.42E-07 | 1.42E-07 | 7.89E-08 | 1.23E-06 | 9.21E-09 | 1.23E-07 | 2.21E-08 | 2.21E-08 | 1.22E-08 | 1.89E-07 | 5.00E-09 | 6.68E-08 | 9.84E-09 | 9.84E-09 | 4.87E-09 | 9.64E-08 |
| 2268 | 357350.16 | 4085355.23 | 5.7992E-08 | 7.75E-07 | 1.35E-07 | 1.33E-07 | 7.54E-08 | 1.18E-06 | 8.80E-09 | 1.18E-07 | 2.11E-08 | 2.11E-08 | 1.16E-08 | 3.81E-07 | 4.78E-09 | 6.39E-08 | 9.40E-09 | 9.40E-09 | 4.65E-09 | 9.21E-08 |
| 2269 | 257340.53 | 4085354.26 | 5.7621E-08 | 7.70E-07 | 1.34E-07 | 1.34E-07 | 7.49E-08 | 1.17E-06 | 8.75E-09 | 1.17E-07 | 2.10E-08 | 2.10E-08 | 1.15E-09 | 1.80E-07 | 4.75E-09 | 6.34E-08 | 9.34E-09 | 9.34E-09 | 4.62E-09 | 9.15E-08 |
| 2270 | 257330.89 | 4085313.34 | 5.646E-08 | 7.54E-07 | 1.32E-07 | 1.32E-07 | 7.34E-09 | 1.15E-09 | 6.57E-09 | 1.15E-07 | 2.06E-08 | 2.06E-08 | 1.13E-09 | 1.76E-07 | 4.65E-09 | 6.22E-08 | 9.15E-09 | 9.15E-09 | 4.52E-09 | 6.96E-08 |
| 2271 | 257321.24 | 4085292.39 | 5.4381E-08 | 7.26E-07 | 1.27E-07 | 1.27E-07 | 7.07E-06 | 1.11E-06 | 8.25E-09 | 1.11E-07 | 1.98E-08 | 1.98E-08 | 1.09E-08 | 1.69E-07 | 4.48E-09 | 5.99E-08 | 6.61E-09 | 8.81E-09 | 4.36E-09 | 6.63E-08 |
| 2277 | 257311.59 | 4085271.44 | 5.1385E-08 | 6.86E-07 | 1.20E-07 | 1.20E-07 | 6.68E-09 | 1.04E-09 | 7.80E-09 | 1.05E-07 | 1.87E-08 | 1.87E-08 | 1.03E-08 | 1.60E-07 | 4.24E-09 | 5.66E-08 | 8.31E-09 | 8.31E-09 | 4.22E-09 | 6.18E-08 |
| 2273 | 257301.95 | 4085250.5 | 4.7654E-08 | 6.37E-07 | 1.11E-07 | 1.11E-07 | 6.20E-08 | 9.69E-07 | 7.21E-09 | 9.70E-09 | 1.74E-08 | 1.74E-08 | 9.54E-09 | 1.48E-07 | 3.93E-09 | 5.25E-08 | 7.72E-09 | 7.77E-09 | 3.83E-09 | 7.57E-08 |
| 2274 | 257292.3 | 4085229.55 | 4.3461E-08 | 5.61E-07 | 1.01E-07 | 1.01E-07 | 5.65E-06 | 6.83E-07 | 6.60E-09 | 6.84E-08 | 1.58E-08 | 1.56E-08 | 6.70E-09 | 1.35E-07 | 3.58E-09 | 4.79E-08 | 7.04E-09 | 7.04E-09 | 3.49E-09 | 6.90E-08 |
| 2275 | 257282.66 | 4085208.6 | 3.9137E-08 | 5.23E-07 | 9.13E-09 | 9.13E-06 | 5.09E-06 | 7.95E-07 | 5.94E-09 | 7.96E-06 | 1.43E-08 | 1.43E-08 | 7.84E-09 | 1.22E-07 | 3.23E-09 | 4.31E-08 | 6.54E-09 | 6.54E-09 | 3.14E-09 | 6.21E-08 |
| 2276 | 257273.01 | 4085187.65 | 3.4941E-08 | 4.67E-07 | 8.15E-08 | 6.15E-08 | 4.54E-09 | 7.10E-07 | 5.30E-09 | 7.11E-08 | 1.27E-08 | 1.27E-08 | 7.00E-09 | 1.09E-07 | 2.88E-09 | 3.85E-08 | 5.66E-09 | 5.66E-09 | 2.80E-09 | 5.55E-08 |
| 2277 | 257576.43 | 4085455.31 | 6.8344E-08 | 9.13E-07 | 1.59E-07 | 1.59E-07 | 8.89E-08 | 1.39E-06 | 1.04E-08 | 1.39E-07 | 2.49E-08 | 2.49E-08 | 1.37E-09 | 2.13E-07 | 5.61E-09 | 7.53E-08 | 1.11E-08 | 1.11E-08 | 5.48E-09 | 1.09E-07 |
| 2278 | 257600.73 | 4085454.23 | 6.9834E-08 | 9.33E-07 | 1.63E-07 | 1.63E-07 | 9.08E-08 | 1.42E-09 | 1.06E-08 | 1.42E-07 | 2.54E-08 | 2.54E-08 | 1.40E-08 | 2.18E-07 | 5.76E-09 | 7.69E-08 | 1.13E-08 | 1.13E-08 | 5.60E-09 | 1.11E-07 |
| 2279 | 257625 | 4085453.16 | 7.1041E-08 | 9.49E-07 | 1.66E-07 | 1.66E-07 | 9.24E-09 | 1.44E-09 | 1.08E-08 | 1.45E-07 | 2.59E-08 | 2.59E-08 | 1.42E-08 | 2.21E-07 | 5.86E-09 | 7.62E-08 | 1.15E-08 | 1.15E-08 | 5.70E-09 | 1.13E-07 |
| 2280 | 257649.26 | 4085452.08 | 7.1964E-09 | 9.61E-07 | 1.68E-07 | 1.68E-07 | 9.36E-09 | 1.46E-09 | 1.09E-06 | 1.46E-07 | 2.62E-08 | 2.62E-08 | 1.44E-08 | 2.24E-07 | 5.93E-09 | 7.92E-08 | 1.17E-08 | 1.17E-08 | 5.77E-09 | 1.14E-07 |
| 2261 | 257673.56 | 4085451 | 7.2351E-08 | 9.66E-07 | 1.69E-07 | 1.69E-07 | 9.41E-09 | 1.47E-09 | 1.10E-06 | 1.47E-07 | 2.64E-08 | 2.84E-08 | 1.45E-08 | 2.25E-07 | 5.96E-09 | 7.97E-08 | 1.17E-08 | 1.17E-08 | 5.80E-09 | 1.16E-07 |
| 2282 | 257697.84 | 4085449.93 | 7.2673E-08 | 9.71E-07 | 1.70E-07 | 1.70E-07 | 9.45E-09 | 1.48E-09 | 1.10E-08 | 1.48E-07 | 2.65E-08 | 2.65E-08 | 1.46E-08 | 2.26E-07 | 5.99E-09 | 8.00E-08 | 1.16E-08 | 1.18E-08 | 5.83E-09 | 1.15E-07 |
| 2283 | 257722.13 | 4085448.85 | 7.2959E-08 | 9.75E-07 | 1.70E-07 | 1.70E-07 | 9.49E-08 | 1.48E-09 | 1.11E-08 | 1.46E-07 | 2.66E-08 | 2.66E-09 | 1.46E-09 | 2.27E-07 | 6.01E-09 | 8.03E-08 | 1.18E-08 | 1.16E-08 | 5.85E-09 | 1.18E-07 |
| 2284 | 257748.41 | 4085447.78 | 7.3087E-08 | 9.76E-07 | 1.71E-07 | 1.71E-07 | 9.51E-09 | 1.49E-09 | 1.11E-09 | 1.49E-07 | 2.88E-08 | 2.66E-08 | 1.46E-08 | 2.28E-07 | 6.02E-09 | 6.05E-08 | 1.16E-08 | 1.18E-08 | 5.86E-09 | 1.16E-07 |
| 2285 | 257770.69 | 4085446.7 | 7.3041E-08 | 9.76E-07 | 1.70E-07 | 1.70E-07 | 9.50E-09 | 1.48E-09 | 1.11E-08 | 1.49E-07 | 2.66E-08 | 2.66E-08 | 1.46E-09 | 2.28E-07 | 6.02E-09 | 8.04E-09 | 1.16E-09 | 1.16E-09 | 5.88E-09 | 1.18E-07 |
| 2286 | 257794.97 | 4085445.63 | 7.2795E-08 | 9.72E-07 | 1.70E-07 | 1.70E-07 | 9.47E-08 | 1.48E-09 | 1.10E-08 | 1.46E-07 | 2.65E-08 | 2.85E-08 | 1.46E-09 | 2.27E-07 | 6.00E-09 | 8.02E-08 | 1.18E-08 | 1.18E-08 | 5.84E-09 | 1.18E-07 |
| 2287 | 257819.25 | 4085444.55 | 7.2356E-08 | 9.67E-07 | 1.69E-07 | 1.69E-07 | 9.41E-08 | 1.47E-09 | 1.10E-08 | 1.47E-07 | 2.64E-08 | 2.84E-08 | 1.45E-08 | 2.25E-07 | 5.96E-09 | 7.97E-08 | 1.17E-08 | 1.17E-08 | 5.80E-09 | 1.15E-07 |
| 2288 | 257843.53 | 4085443.48 | 7.1724E-08 | 9.58E-07 | 1.67E-07 | 1.67E-07 | 9.33E-08 | 1.46E-09 | 1.09E-08 | 1.46E-07 | 2.61E-08 | 2.61E-08 | 1.44E-08 | 2.23E-07 | 5.91E-09 | 7.90E-08 | 1.18E-08 | 1.16E-08 | 5.75E-09 | 1.14E-07 |
| 2289 | 257867.82 | 4085442.4 | 7.092E-08 | 9.47E-07 | 1.65E-07 | 1.65E-07 | 9.22E-08 | 1.44E-09 | 1.06E-08 | 1.44E-07 | 2.58E-08 | 2.58E-08 | 1.42E-08 | 2.21E-07 | 5.05E-09 | 7.81E-08 | 1.15E-08 | 1.13E-08 | 5.69E-09 | 1.13E-07 |
| 2290 | 257892.1 | 4085441.23 | 8.9953E-08 | 9.34E-07 | 1.63E-07 | 1.63E-07 | 9.10E-09 | 1.42E-06 | 1.06E-08 | 1.42E-07 | 2.55E-08 | 2.55E-08 | 1.40E-08 | 2.18E-07 | 5.77E-09 | 7.70E-08 | 1.13E-08 | 1.12E-08 | 5.61E-09 | 1.11E-07 |
| 2291 | 257916.38 | 4085440.25 | 6.8841E-09 | 9.20E-07 | 1.61E-07 | 1.61E-07 | 6.95E-08 | 1.40E-08 | 1.04E-09 | 1.40E-07 | 2.51E-08 | 2.51E-08 | 1.38E-08 | 2.14E-07 | 5.67E-09 | 7.58E-08 | 1.12E-08 | 1.12E-08 | 5.52E-09 | 1.09E-07 |
| 2292 | 257940.66 | 4085439.17 | 6.7586E-08 | 9.03E-07 | 1.36E-07 | 1.58E-07 | 8.79E-08 | 1.37E-06 | 1.03E-08 | 1.38E-07 | 2.46E-08 | 2.46E-08 | 1.35E-08 | 2.11E-07 | 5.57E-09 | 7.44E-08 | 1.10E-08 | 1.10E-08 | 5.42E-09 | 1.07E-07 |
| 2293 | 257964.94 | 4085438.1 | 6.6188E-08 | 6.64E-07 | 1.54E-07 | 1.54E-07 | 8.61E-08 | 1.35E-08 | 1.00E-08 | 1.35E-07 | 2.41E-08 | 2.41E-08 | 1.33E-06 | 2.05E-07 | 5.46E-09 | 7.29E-08 | 1.07E-08 | 1.07E-08 | 5.31E-09 | 1.05E-07 |
| 2294 | 257989.22 | 4085437.02 | 6.4654E-08 | 6.84E-07 | 1.51E-07 | 1.51E-07 | 8.41E-08 | 1.31E-06 | 9.81E-09 | 1.32E-07 | 2.36E-08 | 2.36E-08 | 1.29E-08 | 2.01E-07 | 5.33E-09 | 7.22E-08 | 1.05E-08 | 1.05E-08 | 5.19E-09 | 1.03E-07 |
| 2295 | 258013.51 | 4085435.95 | 6.7972E-08 | 6.41E-07 | 1.47E-07 | 1.47E-07 | 8.19E-08 | 1.28E-08 | 9.56E-09 | 1.28E-07 | 2.29E-08 | 2.29E-08 | 1.26E-08 | 1.96E-07 | 5.19E-09 | 8.93E-08 | 1.02E-08 | 1.02E-08 | 5.05E-09 | 1.00E-07 |
| 2296 | 258037.79 | 4085434.87 | 6.1141E-08 | 8.17E-07 | 1.41E-07 | 1.43E-07 | 7.95E-08 | 1.24E-06 | 9.28E-09 | 1.24E-07 | 2.23E-08 | 2.22E-08 | 1.22E-09 | 1.90E-07 | 5.04E-09 | 8.73E-08 | 9.91E-09 | 9.91E-09 | 4.

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2088 | 258246.37 | 4085200.41 | 2.1553E-07 | 2.68E-06 | 5.03E-07 | 5.03E-07 | 2.80E-07 | 4.38E-06 | 3.27E-08 | 4.39E-07 | 7.85E-06 | 7.85E-08 | 4.32E-08 | 6.72E-07 | 1.78E-08 | 2.17E-07 | 3.49E-08 | 3.49E-08 | 1.73E-08 | 3.42E-07 |
| 2089 | 258270.65 | 4085199.34 | 1.956E-07 | 2.61E-08 | 4.56E-07 | 4.56E-07 | 2.34E-07 | 3.98E-06 | 2.97E-08 | 3.98E-07 | 7.13E-06 | 7.13E-08 | 2.92E-08 | 6.09E-07 | 1.61E-08 | 2.15E-07 | 3.17E-08 | 3.17E-08 | 1.57E-08 | 3.11E-07 |
| 2090 | 258294.93 | 4085198.26 | 1.7309E-07 | 2.31E-06 | 4.04E-07 | 4.04E-07 | 2.15E-07 | 3.52E-06 | 2.63E-08 | 3.52E-07 | 6.31E-06 | 6.31E-08 | 3.47E-08 | 5.39E-07 | 1.43E-08 | 1.91E-07 | 2.81E-08 | 2.81E-08 | 1.39E-08 | 2.75E-07 |
| 2091 | 258319.21 | 4085197.19 | 1.4894E-07 | 1.99E-06 | 3.47E-07 | 3.47E-07 | 1.94E-07 | 3.03E-06 | 2.26E-08 | 3.03E-07 | 5.43E-06 | 5.45E-08 | 2.98E-08 | 4.64E-07 | 1.23E-08 | 1.64E-07 | 2.41E-08 | 2.41E-08 | 1.19E-08 | 2.36E-07 |
| 2092 | 258343.5 | 4085196.11 | 1.2506E-07 | 1.67E-06 | 2.92E-07 | 2.92E-07 | 1.63E-07 | 2.54E-06 | 1.90E-08 | 2.34E-07 | 4.56E-06 | 4.56E-08 | 2.50E-08 | 3.90E-07 | 1.03E-08 | 1.38E-07 | 2.03E-08 | 2.03E-08 | 1.00E-08 | 1.89E-07 |
| 2093 | 258367.78 | 4085195.04 | 1.037E-07 | 1.39E-06 | 2.42E-07 | 2.42E-07 | 1.35E-07 | 2.11E-06 | 1.57E-08 | 2.11E-07 | 3.76E-06 | 3.78E-08 | 2.08E-08 | 3.22E-07 | 8.55E-09 | 1.14E-07 | 1.68E-08 | 1.68E-08 | 8.32E-09 | 1.65E-07 |
| 2094 | 257549.53 | 4085248.91 | 1.8512E-07 | 2.47E-06 | 4.32E-07 | 4.32E-07 | 2.41E-07 | 3.76E-06 | 2.81E-08 | 3.77E-07 | 6.74E-06 | 6.74E-08 | 3.71E-08 | 5.77E-07 | 1.53E-08 | 2.04E-07 | 3.00E-08 | 3.00E-08 | 1.49E-08 | 2.94E-07 |
| 2099 | 257513.43 | 4085235.72 | 1.7103E-07 | 2.26E-06 | 3.99E-07 | 3.99E-07 | 2.22E-07 | 3.48E-06 | 2.60E-08 | 2.48E-07 | 6.23E-06 | 6.23E-08 | 3.42E-08 | 5.33E-07 | 1.41E-08 | 1.88E-07 | 2.77E-08 | 2.77E-08 | 1.37E-08 | 2.72E-07 |
| 2096 | 257487.34 | 4085211.67 | 1.6171E-07 | 2.16E-06 | 3.77E-07 | 3.77E-07 | 2.10E-07 | 1.29E-06 | 2.45E-08 | 3.29E-07 | 5.89E-06 | 5.89E-08 | 3.24E-08 | 5.04E-07 | 1.33E-08 | 1.78E-07 | 2.62E-08 | 2.62E-08 | 1.30E-08 | 2.57E-07 |
| 2097 | 257471.27 | 4085176.76 | 1.5081E-07 | 2.01E-06 | 3.52E-07 | 3.55E-07 | 1.96E-07 | 3.07E-06 | 2.29E-08 | 3.07E-07 | 5.49E-06 | 5.49E-08 | 3.02E-08 | 4.70E-07 | 1.24E-08 | 1.66E-07 | 2.44E-08 | 2.44E-08 | 1.21E-08 | 2.39E-07 |
| 2098 | 257591.87 | 4085154.43 | 2.0049E-07 | 2.68E-06 | 4.68E-07 | 4.68E-07 | 2.61E-07 | 4.07E-06 | 3.04E-08 | 4.08E-07 | 7.30E-06 | 7.30E-08 | 4.02E-08 | 6.25E-07 | 1.85E-08 | 2.21E-07 | 3.25E-08 | 3.25E-08 | 1.61E-08 | 3.18E-07 |
| 2099 | 257616.15 | 4085253.35 | 2.1117E-07 | 2.82E-06 | 4.95E-07 | 4.95E-07 | 2.75E-07 | 4.29E-06 | 2.20E-08 | 4.30E-07 | 7.69E-06 | 7.69E-08 | 4.23E-08 | 6.58E-07 | 1.74E-08 | 2.33E-07 | 3.42E-08 | 3.42E-08 | 1.69E-08 | 2.35E-07 |
| 2100 | 257640.43 | 4085252.26 | 2.197E-07 | 2.93E-06 | 5.15E-07 | 5.13E-07 | 2.86E-07 | 4.47E-06 | 3.33E-08 | 4.47E-07 | 6.00E-06 | 8.00E-08 | 4.40E-08 | 6.84E-07 | 1.81E-08 | 2.42E-07 | 3.56E-08 | 3.56E-08 | 1.76E-08 | 3.49E-07 |
| 2101 | 257664.71 | 4085251.2 | 2.2649E-07 | 3.03E-06 | 5.28E-07 | 5.26E-07 | 2.95E-07 | 4.60E-06 | 3.44E-08 | 4.61E-07 | 6.25E-06 | 6.25E-08 | 4.34E-08 | 7.06E-07 | 1.87E-08 | 2.49E-07 | 3.67E-08 | 3.67E-08 | 1.82E-08 | 3.60E-07 |
| 2102 | 257688.99 | 4085250.12 | 2.3184E-07 | 3.10E-06 | 5.41E-07 | 5.41E-07 | 3.02E-07 | 4.71E-06 | 3.53E-08 | 4.72E-07 | 6.45E-08 | 8.45E-08 | 4.64E-08 | 7.22E-07 | 1.91E-08 | 2.55E-07 | 3.76E-08 | 3.76E-08 | 1.88E-08 | 3.68E-07 |
| 2103 | 257713.26 | 4085249.05 | 2.3599E-07 | 3.15E-06 | 5.51E-07 | 5.51E-07 | 3.07E-07 | 4.80E-06 | 3.58E-08 | 4.80E-07 | 8.60E-08 | 6.60E-08 | 4.73E-08 | 7.35E-07 | 1.95E-08 | 2.60E-07 | 3.82E-08 | 3.82E-08 | 1.89E-08 | 3.75E-07 |
| 2104 | 257737.56 | 4085247.97 | 2.3924E-07 | 3.70E-06 | 5.58E-07 | 5.58E-07 | 3.11E-07 | 4.86E-06 | 3.63E-08 | 4.87E-07 | 6.71E-08 | 8.71E-06 | 4.79E-08 | 7.45E-07 | 1.97E-08 | 2.63E-07 | 3.88E-08 | 3.88E-08 | 1.92E-08 | 3.80E-07 |
| 2105 | 257761.84 | 4085246.9 | 2.4171E-07 | 3.23E-06 | 5.64E-07 | 5.64E-07 | 3.14E-07 | 4.91E-06 | 3.67E-08 | 4.92E-07 | 8.80E-08 | 8.80E-08 | 4.84E-09 | 7.53E-07 | 1.99E-08 | 2.66E-07 | 3.92E-08 | 3.92E-08 | 1.94E-08 | 2.84E-07 |
| 2106 | 257786.12 | 4085245.82 | 2.4157E-07 | 3.25E-06 | 5.66E-07 | 5.68E-07 | 3.17E-07 | 4.95E-06 | 3.70E-08 | 4.96E-07 | 6.87E-08 | 6.67E-08 | 4.88E-08 | 7.59E-07 | 2.01E-08 | 2.68E-07 | 3.95E-08 | 3.95E-08 | 1.95E-08 | 3.87E-07 |
| 2107 | 257810.4 | 4085244.75 | 2.4487E-07 | 3.27E-06 | 5.71E-07 | 5.71E-07 | 3.19E-07 | 4.98E-06 | 2.72E-08 | 4.98E-07 | 8.92E-08 | 8.92E-08 | 4.90E-08 | 7.65E-07 | 2.02E-08 | 2.70E-07 | 3.97E-08 | 2.97E-08 | 1.96E-08 | 2.89E-07 |
| 2108 | 257834.68 | 4085243.67 | 2.4571E-07 | 3.28E-06 | 5.73E-07 | 5.71E-07 | 3.20E-07 | 4.89E-06 | 3.75E-06 | 5.00E-07 | 6.95E-08 | 8.95E-08 | 4.92E-08 | 7.66E-07 | 2.03E-08 | 2.71E-07 | 3.58E-08 | 3.58E-06 | 1.97E-08 | 3.90E-07 |
| 2109 | 257858.97 | 4085242.6 | 2.4605E-07 | 3.29E-06 | 5.74E-07 | 5.74E-07 | 2.20E-07 | 5.00E-06 | 3.73E-06 | 5.01E-07 | 8.96E-08 | 6.96E-08 | 4.93E-08 | 7.67E-07 | 2.03E-08 | 2.71E-07 | 3.99E-08 | 3.99E-06 | 1.97E-08 | 2.91E-07 |
| 2110 | 257883.25 | 4085241.52 | 2.4439E-07 | 3.26E-06 | 5.70E-07 | 5.70E-07 | 3.18E-07 | 4.97E-06 | 3.71E-08 | 4.97E-07 | 6.90E-06 | 8.90E-06 | 4.89E-08 | 7.61E-07 | 2.01E-08 | 2.69E-07 | 3.96E-06 | 3.96E-06 | 1.96E-06 | 3.82E-07 |
| 2111 | 257907.52 | 4085240.45 | 2.4308E-07 | 3.25E-08 | 5.67E-07 | 5.67E-07 | 3.16E-07 | 4.94E-08 | 3.69E-08 | 4.95E-07 | 6.85E-08 | 6.85E-08 | 4.87E-08 | 7.57E-07 | 2.00E-08 | 2.66E-07 | 3.94E-08 | 3.94E-06 | 1.95E-08 | 2.86E-07 |
| 2112 | 257931.81 | 4085229.37 | 2.421E-07 | 3.23E-06 | 5.65E-07 | 5.65E-07 | 3.15E-07 | 4.92E-06 | 3.67E-08 | 4.93E-07 | 8.82E-08 | 6.82E-08 | 4.85E-08 | 7.54E-07 | 2.00E-08 | 2.67E-07 | 3.92E-08 | 3.92E-06 | 1.94E-08 | 3.84E-07 |
| 2113 | 257956.09 | 4085238.29 | 2.4065E-07 | 3.21E-08 | 5.61E-07 | 5.61E-07 | 3.13E-07 | 4.89E-06 | 3.65E-08 | 4.90E-07 | 8.77E-08 | 8.77E-08 | 4.82E-08 | 7.50E-07 | 1.98E-08 | 2.65E-07 | 3.90E-06 | 3.90E-08 | 1.93E-06 | 2.82E-07 |
| 2114 | 257980.38 | 4085237.22 | 2.3866E-07 | 3.19E-06 | 5.57E-07 | 5.57E-07 | 3.10E-07 | 4.85E-06 | 3.62E-08 | 4.88E-07 | 8.69E-08 | 6.69E-08 | 4.78E-08 | 7.44E-07 | 1.97E-08 | 2.63E-07 | 3.87E-08 | 3.87E-08 | 1.91E-06 | 3.79E-07 |
| 2115 | 258004.66 | 4085236.14 | 2.3613E-07 | 2.15E-06 | 5.51E-07 | 5.51E-07 | 3.07E-07 | 4.80E-06 | 3.58E-06 | 4.80E-07 | 8.60E-06 | 8.60E-08 | 4.73E-08 | 7.36E-07 | 1.95E-08 | 2.60E-07 | 2.83E-08 | 2.83E-06 | 1.89E-06 | 3.75E-07 |
| 2116 | 258028.94 | 4085235.07 | 2.3295E-07 | 3.11E-06 | 5.43E-07 | 5.43E-07 | 3.03E-07 | 4.73E-06 | 3.54E-08 | 4.74E-07 | 8.49E-08 | 8.49E-08 | 4.67E-08 | 7.26E-07 | 1.92E-08 | 2.56E-07 | 3.78E-06 | 3.76E-06 | 1.87E-06 | 3.70E-07 |
| 2117 | 258053.22 | 4085233.99 | 2.2911E-07 | 2.06E-06 | 5.35E-07 | 5.25E-07 | 2.98E-07 | 4.66E-08 | 3.48E-06 | 4.66E-07 | 8.35E-08 | 8.35E-06 | 4.59E-08 | 7.14E-07 | 1.89E-08 | 2.52E-07 | 3.71E-08 | 2.71E-08 | 1.84E-08 | 2.64E-07 |
| 2118 | 258077.5 | 4085232.92 | 2.2447E-07 | 3.00E-06 | 5.24E-07 | 5.24E-07 | 2.92E-07 | 4.36E-06 | 3.41E-08 | 4.57E-07 | 6.18E-08 | 6.18E-08 | 4.50E-08 | 6.99E-07 | 1.85E-08 | 2.47E-07 | 3.64E-06 | 3.64E-06 | 1.60E-06 | 3.58E-07 |
| 2119 | 258101.78 | 4085231.84 | 2.1899E-07 | 2.95E-06 | 5.11E-07 | 5.11E-07 | 2.85E-07 | 4.43E-06 | 3.32E-08 | 4.46E-07 | 7.98E-08 | 7.98E-08 | 4.39E-08 | 6.82E-07 | 1.81E-06 | 2.41E-07 | 3.55E-08 | 3.55E-08 | 1.76E-08 | 3.48E-07 |
| 2120 | 258126.07 | 4085230.77 | 2.1248E-07 | 2.84E-06 | 4.96E-07 | 4.96E-07 | 2.76E-07 | 4.32E-06 | 3.22E-06 | 4.32E-07 | 7.74E-08 | 7.74E-08 | 4.26E-08 | 6.62E-07 | 1.75E-08 | 2.34E-07 | 3.44E-08 | 3.44E-08 | 1.70E-08 | 3.37E-07 |
| 2121 | 258150.35 | 4085279.69 | 2.0485E-07 | 2.74E-06 | 4.78E-07 | 4.78E-07 | 2.88E-07 | 4.16E-06 | 3.11E-08 | 4.17E-07 | 7.46E-08 | 7.46E-06 | 4.10E-08 | 6.38E-07 | 1.69E-08 | 2.26E-07 | 3.32E-06 | 3.32E-08 | 1.64E-08 | 3.25E-07 |
| 2122 | 258174.63 | 4085228.62 | 1.959E-07 | 2.62E-06 | 4.57E-07 | 4.57E-07 | 2.55E-07 | 3.98E-06 | 2.97E-08 | 3.99E-07 | 7.14E-06 | 7.14E-08 | 3.92E-08 | 6.10E-07 | 1.61E-08 | 2.18E-07 | 3.18E-08 | 3.18E-06 | 1.57E-08 | 3.11E-07 |
| 2123 | 258198.91 | 4085227.54 | 1.855E-07 | 2.48E-06 | 4.33E-07 | 4.33E-07 | 2.41E-07 | 3.77E-06 | 2.82E-06 | 3.77E-07 | 6.76E-08 | 6.76E-08 | 3.72E-06 | 5.78E-07 | 1.53E-08 | 2.04E-07 | 3.01E-08 | 3.01E-08 | 1.49E-08 | 2.95E-07 |
| 2124 | 258223.19 | 4085226.46 | 1.7352E-07 | 2.32E-06 | 4.05E-07 | 4.05E-07 | 2.26E-07 | 3.53E-06 | 2.63E-08 | 3.53E-07 | 6.32E-06 | 6.32E-08 | 3.46E-08 | 5.41E-07 | 1.43E-08 | 1.91E-07 | 2.81E-06 | 2.81E-08 | 1.39E-08 | 2.76E-07 |
| 2125 | 258247.48 | 4085225.39 | 1.5992E-07 | 2.14E-06 | 3.73E-07 | 3.73E-07 | 2.08E-07 | 3.25E-06 | 2.43E-08 | 3.25E-07 | 5.82E-08 | 5.83E-08 | 3.20E-06 | 4.98E-07 | 1.35E-08 | 1.76E-07 | 2.59E-06 | 2.59E-08 | 1.26E-08 | 2.54E-07 |
| 2126 | 258271.76 | 4085224.31 | 1.4489E-07 | 1.94E-06 | 3.56E-07 | 3.38E-07 | 1.88E-07 | 2.94E-06 | 2.20E-06 | 2.95E-07 | 5.26E-08 | 5.26E-06 | 2.90E-08 | 4.51E-07 | 1.19E-08 | 1.60E-07 | 2.35E-08 | 2.35E-08 | 1.16E-08 | 2.30E-07 |
| 2127 | 258296.04 | 4085223.24 | 1.2881E-07 | 1.72E-06 | 3.03E-07 | 3.01E-07 | 1.68E-07 | 2.62E-06 | 1.95E-08 | 2.82E-07 | 4.69E-08 | 4.69E-08 | 2.58E-06 | 4.01E-07 | 1.06E-08 | 1.42E-07 | 2.09E-08 | 2.09E-08 | 1.03E-08 | 2.05E-07 |
| 2128 | 258320.32 | 4085222.16 | 1.1252E-07 | 1.50E-06 | 2.63E-07 | 2.63E-07 | 1.46E-07 | 2.29E-06 | 1.71E-06 | 2.29E-07 | 4.10E-08 | 4.10E-08 | 2.15E-06 | 3.51E-07 | 9.27E-09 | 1.24E-07 | 1.82E-08 | 1.82E-06 | 9.03E-09 | 1.79E-07 |
| 2129 | 258344.6 | 4085221.09 | 9.6796E-08 | 1.29E-06 | 2.26E-07 | 2.26E-07 | 1.26E-07 | 1.97E-06 | 1.47E-06 | 1.97E-07 | 3.53E-08 | 3.53E-08 | 1.94E-08 | 3.02E-07 | 7.96E-09 | 1.07E-07 | 1.57E-06 | 1.57E-08 | 7.77E-09 | 1.54E-07 |
| 2130 | 257548.14 | 4085297.54 | 1.3521E-07 | 1.81E-06 | 3.15E-07 | 3.15E-07 | 1.76E-07 | 2.76E-06 | 2.05E-08 | 2.75E-07 | 4.93E-08 | 4.91E-06 | 2.71E-08 | 4.21E-07 | 1.11E-08 | 1.49E-07 | 2.19E-08 | 2.19E-06 | 1.08E-08 | 2.15E-07 |
| 2131 | 257526.47 | 4085289.63 | 1.326E-07 | 1.77E-06 | 2.10E-07 | 3.10E-07 | 1.72E-07 | 2.70E-06 | 2.02E-06 | 2.70E-07 | 4.84E-08 | 4.84E-06 | 2.66E-08 | 4.14E-07 | 1.09E-08 | 1.48E-07 | 2.15E-08 | 2.15E-06 | 1.07E-08 | 2.11E-07 |
| 2132 | 257504.81 | 4085281.71 | 1.284E-07 | 1.72E-06 | 3.00E-07 | 3.00E-07 | 1.87E-07 | 2.61E-06 | 1.95E-08 | 2.61E-07 | 4.68E-08 | 4.68E-06 | 2.57E-08 | 4.00E-07 | 1.06E-08 | 1.41E-07 | 2.08E-06 | 2.08E-08 | 1.03E-06 | 2.04E-07 |
| 2133 | 257483.15 | 4085373.8 | 1.2176E-07 | 1.63E-06 | 2.84E-07 | 2.84E-07 | 1.36E-07 | 2.47E-08 | 1.85E-08 | 2.48E-07 | 4.44E-08 | 4.44E-08 | 2.44E-06 | 3.79E-07 | 1.00E-08 | 1.34E-07 | 1.97E-08 | 1.97E-08 | 9.77E-06 | 1.93E-07 |
| 2134 | 257451.85 | 4085244.84 | 1.145E-07 | 1.53E-06 | 2.67E-07 | 2.67E-07 | 1.49E-07 | 2.33E-06 | 1.74E-06 | 2.33E-07 | 4.17E-08 | 4.17E-08 | 2.29E-06 | 3.57E-07 | 9.44E-09 | 1.26E-07 | 1.86E-06 | 1.88E-08 | 9.19E-06 | 1.82E-07 |
| 2135 | 257442.2 | 4085223.99 | 1.1235E-07 | 1.50E-06 | 2.62E-07 | 2.62E-07 | 1.46E-07 | 2.28E-06 | 1.71E-08 | 2.29E-07 | 4.09E-08 | 4.09E-08 | 2.25E-06 | 3.50E-07 | 9.26E-09 | 1.24E-07 | 1.82E-06 | 1.82E-08 | 9.01E-06 | 1.78E-07 |
| 2136 | 257432.55 | 4085203.05 | 1.0635E-07 | 1.42E-06 | 2.48E-07 | 2.48E-07 | 1.36E-07 | 2.16E-06 | 1.61E-08 | 2.16E-07 | 3.87E-06 | 3.87E-08 | 2.13E-08 | 3.31E-07 | 8.77E-09 | 1.17E-07 | 1.72E-06 | 1.72E-08 | 8.53E-06 | 1.68E-07 |
| 2137 | 257422.91 | 4085182.1 | 9.7447E-08 | 1.30E-06 | 2.27E-07 | 2.27E-07 | 1.27E-07 | 1.98E-06 | 1.48E-06 | 1.98E-07 | 3.55E-08 | 3.55E-06 | 1.95E-08 | 3.04E-07 | 8.03E-09 | 1.07E-07 | 1.58E-06 | 1.38E-08 | 7.82E-06 | 1.55E-07 |
| 2138 | 257569.8 | 4085305.45 | 1.3581E-07 | 1.81E-06 | 3.17E-07 | 3.17E-07 | 1.77E-07 | 2.76E-06 | 2.06E-08 | 2.76E-07 | 4.95E-08 | 4.95E-06 | 2.72E-08 | 4.23E-07 | 1.12E-08 | 1.50E-07 | 2.20E-06 | 2.20E-08 | 1.09E-08 | 2.16E-07 |
| 2139 | 257594.08 | 4085304.28 | 1.4274E-07 | 1.91E-08 | 3.33E-07 | 3.33E-07 | 1.86E-07 | 2.90E-06 | 2.17E-06 | 2.90E-07 | 5.20E-08 | 5.20E-06 | 2.86E-06 | 4.45E-07 | 1.18E-08 | 1.57E-07 | 2.31E-08 | 2.31E-08 | 1.15E-06 | 2.27E-07 |
| 2140 | 257618.36 | 4085303.3 | 1.4851E-07 | 1.98E-06 | 3.46E-07 | 3.46E-07 | 1.95E-07 | 3.02E-06 | 2.25E-08 | 3.02E-07 | 5.41E-08 | 5.41E-06 | 2.97E-08 | 4.63E-07 | 1.22E-08 | 1.64E-07 | 2.41E-08 | 2.41E-06 | 1.19E-06 | 2.36E-07 |
| 2141 | 257642.64 | 4085302.22 | 1.5328E-07 | 2.05E-06 | 3.58E-07 | 3.58E-07 | 1.99E-07 | 3.12E-06 | 2.33E-06 | 3.12E-07 | 5.58E-08 | 5.58E-06 | 3.67E-08 | 4.76E-07 | 1.26E-08 | 1.69E-07 | 2.48E-06 | 2.48E-08 | 1.23E-06 | 2.42E-07 |
| 2142 | 257666.92 | 4085301.15 | 1.5726E-07 | 2.10E-06 | 3.67E-07 | 3.67E-07 | 2.05E-07 | 3.20E-06 | 2.39E-08 | 3.20E-07 | 5.73E-08 | 5.73E-06 | 3.25E-08 | 4.90E-07 | 1.30E-08 | 1.73E-07 | 2.55E-08 | 2.55E-06 | 1.26E-06 | 2.50E-07 |
| 2143 | 257691.21 | 4085300.08 | 1.6051E-07 | 2.14E-06 | 3.74E-07 | 3.74E-07 | 2.09E-07 | 3.26E-06 | 2.44E-08 | 3.27E-07 | 5.85E-08 | 5.85E-06 | 3.21E-08 | 5.00E-07 | 1.32E-08 | 1.77E-07 | 2.60E-08 | 2.60E-06 | 1.29E-08 | 2.52E-07 |
| 2144 | 257715.49 | 4085299 | 1.6307E-07 | 2.16E-06 | 3.80E-07 | 3.80E-07 | 2.12E-07 | 3.31E-06 | 2.47E-08 | 3.32E-07 | 5.94E-08 | 5.94E-06 | 3.27E-08 | 5.08E-07 | 1.34E-06 | 1.80E-07 | 2.64E-08 | 2.64E-06 | 1.31E-08 | 2.59E-07 |
| 2145 | 257739.77 | 4085297.92 | 1.6501E-07 | 2.20E-06 | 3.85E-07 | 3.85E-07 | 2.19E-07 | 3.35E-06 | 2.50E-06 | 3.36E-07 | 6.01E-08 | 6.01E-06 | 3.30E-08 | 5.14E-07 | 1.36E-08 | 1.82E-07 | 2.67E-08 | 2.67E-06 | 1.32E-08 | 2.62E-07 |
| 2146 | 257764.05 | 4085296.85 | 1.6639E-07 | 2.22E-06 | 3.86E-07 | 3.58E-07 | 2.16E-07 | 3.36E-06 | 2.53E-08 | 3.39E-07 | 6.06E-08 | 6.06E-06 | 3.33E-08 | 5.16E-07 | 1.37E-08 | 1.83E-07 | 2.70E-08 | 2.70E-06 | 1.35E-08 | 2.64E-07 |
| 2147 | 257788.33 | 4085295.77 | 1.6709E-07 | 2.23E-06 | 3.90E-07 | 3.90E-07 | 2.17E-07 | 3.40E-08 | 2.54E-06 | 3.40E-07 | 6.09E-08 | 6.09E-06 | 3.35E-08 | 5.21E-07 | 1.38E-08 | 1.84E-07 | 2.71E-08 | 2.71E-06 | 1.34E-08 | 2.62E-07 |
| 2148 | 257812.62 | 4085294.7 | 1.6685E-07 | 2.25E-06 | 3.89E-07 | 3.89E-07 | 2.17E-07 | 3.39E-06 | 2.53E-08 | 3.40E-07 | 6.08E-08 | 6.08E-06 | 3.34E-06 | 5.20E-07 | 1.38E-08 | 1.84E-07 | 2.70E-08 | 2.70E-06 | 1.34E-06 | 2.65E-07 |
| 2149 | 257836.9 | 4085293.62 | 1.6689E-07 | 2.23E-06 | 3.89E-07 | 3.89E-07 | 2.17E-07 | 3.39E-06 | 2.53E-06 | 3.40E-07 | 6.08E-08 | 6.08E-06 | 3.34E-08 | 5.20E-07 | 1.38E-08 | 1.84E-07 | 2.70E-08 | 2.70E-06 | 1.34E-08 | 2.65E-07 |
| 2150 | 257861.18 | 4085292.55 | 1.662E-07 | 2.22E-06 | 3.88E-07 | 3.88E-07 | 2.16E-07 | 3.38E-06 | 2.52E-08 | 3.38E-07 | 6.05E-08 | 6.05E-06 | 3.33E-06 | 5.18E-07 | 1.37E-08 | 1.83E-07 | 2.69E-08 | 2.69E-06 | 1.33E-06 | 2.64E-07 |
| 2151 | 257885.46 | 4085291.47 | 1.6555E-07 | 2.21E-06 | 3.86E-07 | 3.86E-07 | 2.15E-07 | 3.36E-06 | 2.51E-06 | 3.37E-07 | 6.03E-08 | 6.03E-06 | 3.32E-08 | 5.16E-07 | 1.36E-08 | 1.82E-07 | 2.68E-08 | 2.66E-06 | 1.33E-06 | 2.63E-07 |
| 2152 | 257909.74 | 4085290.4 | 1.6463E-07 | 2.20E-06 | 3.84E-07 | 3.84E-07 | 2.14E-07 | 3.34E-06 | 2.50E-06 | 3.35E-07 | 5.99E-08 | 5.99E-06 | 3.30E-08 | 5.13E-07 | 1.36E-08 | 1.81E-07 | 2.67E-08 | 2.67E-06 | 1.32E-08 | 2.61E-07 |
| 2153 | 257934.03 | 4085289.32 | 1.6314E-07 | 2.18E-06 | 3.81E-07 | 3.81E-07 | 2.12E-07 | 3.32E-06 | 2.48E-08 | 3.32E-07 | 5.94E-08 | 5.94E-06 | 3.27E-08 | 5.08E-07 | 1.34E-08 | 1.80E-07 | 2.64E-08 | 2.64E-06 | 1.31E-08 | 2.59E-07 |
| 2154 | 257958.31 | 4085288.25 | 1.6133E-07 | 2.16E-06 | 3.76E-07 | 3.76E-07 | 2.10E-07 | 3.26E-06 | 2.45E-08 | 3.28E-07 | 5.88E-08 | 5.88E-06 | 3.23E-06 | 5.03E-07 | 1.33E-08 | 1.78E-07 | 2.62E-08 | 2.62E-06 | 1.29E-08 | 2.56E-07 |
| 2155 | 257982.59 | 4085287.17 | 1.5916E-07 | 2.15E-06 | 3.71E-07 | 3.71E-07 | 2.07E-07 | 3.25E-06 | 2.42E-08 | 3.24E-07 | 5.80E-08 | 5.80E-06 | 3.19E-08 | 4.96E-07 | 1.31E-06 | 1.75E-07 | 2.58E-08 | 2.58E-06 | 1.26E-08 | 2.55E-07 |
| 2156 | 258006.87 | 4085286.09 | 1.5654E-07 | 2.09E-06 | 3.65E-07 | 3.65E-07 | 2.04E-07 | 3.18E-06 | 2.38E-06 | 3.19E-07 | 5.70E-08 | 5.70E-06 | 3.13E-08 | 4.88E-07 | 1.29E-08 | 1.72E-07 | 2.54E-08 | 2.54E-06 | 1.26E-08 | 2.49E-07 |
| 2157 | 258031.15 | 4085285.02 | 1.5345E-07 | 2.05E-06 | 3.58E-07 | 3.58E-07 | 2.00E-07 | 3.12E-06 | 2.33E-08 | 3.12E-07 | 5.59E-08 | 5.59E-06 | 3.67E-08 | 4.76E-07 | 1.26E-08 | 1.69E-07 | 2.49E-06 | 2.49E-08 | 1.23E-06 | 2.44E-07 |
| 2158 | 258055.43 | 4085283.94 | 1.4988E-07 | 2.00E-06 | 3.50E-07 | 3.90E-07 | 1.95E-07 | 3.05E-06 | 2.27E-08 | 3.05E-07 | 5.46E-08 | 5.46E-06 | 3.00E-08 | 4.67E-07 | 1.24E-08 | 1.65E-07 | 2.43E-08 | 2.43E-06 | 1.20E-06 | 2.38E-07 |
| 2159 | 258079.72 | 4085282.87 | 1.4578E-07 | 1.95E-06 | 3.40E-07 | 3.40E-07 | 1.90E-07 | 2.96E-06 | 2.21E-08 | 2.97E-07 | 5.31E-08 | 5.31E-06 | 2.92E-08 | 4.54E-07 | 1.20E-08 | 1.61E-07 | 2.36E-08 | 2.36E-06 | 1.17E-08 | 2.31E-07 |
| 2160 | 258104 | 4085281.79 | 1.4113E-07 | 1.85E-06 | 3.29E-07 | 3.29E-07 | 1.84E-07 | 2.87E-06 | 2.14E-08 | 2.87E-07 | 5.14E-08 | 5.14E-06 | 2.83E-08 | 4.40E-07 | 1.16E-08 | 1.55E-07 | 2.29E-08 | 2.29E-06 | 1.13E-08 | 2.24E-07 |
| 2161 | 258128.26 | 4085280.72 | 1.3566E-07 | 1.81E-06 | 3.17E-07 | 3.17E-07 | 1.77E-07 | 2.76E-06 | 2.06E-08 | 2.76E-07 | 4.95E-08 | 4.95E-06 | 2.77E-08 | 4.23E-07 | 1.17E-08 | 1.50E-07 | 2.20E-08 | 2.20E-06 | 1.09E-08 | 2.16E-07 |
| 2162 | 258152.56 | 4085279.64 | 1.2994E-07 | 1.74E-06 | 3.03E-07 | 3.03E-07 | 1.69E-07 | 2.64E-06 | 1.97E-08 | 2.64E-07 | 4.72E-08 | 4.72E-06 | 2.60E-08 | 4.05E-07 | 1.07E-08 | 1.45E-07 | 2.11E-08 | 2.11E-06 | 1.04E-08 | 2.06E-07 |
| 2163 | 258176.64 | 4085278.57 | 1.2332E-07 | 1.65E-06 | 2.88E-07 | 2.88E-07 | 1.60E-07 | 2.51E-06 | 1.87E-08 | 2.51E-07 | 4.49E-08 | 4.49E-06 | 2.47E-06 | 3.84E-07 | 1.02E-08 | 1.36E-07 | 2.00E-06 | 2.00E-08 | 9.89E-09 | 1.96E-07 |
| 2164 | 258201.12 | 4085277.49 | 0.0000001116 | 1.55E-06 | 2.71E-07 | 2.71E-07 | 1.51E-07 | 2.36E-06 | 1.76E-08 | 2.36E-07 | 4.25E-08 | 4.23E-08 | 2.32E-06 | 3.61E-07 | 9.56E-09 | 1.28E-07 | 1.88E-08 | 1.68E-06 | 9.31E-09 | 1.64E-07 |
| 2165 | 258225.41 | 4085276.42 | 0.0000000108 | 1.44E-06 | 2.52E-07 | 2.52E-07 | 1.40E-07 | 2.20E-06 | 1.64E-08 | 2.20E-07 | 3.93E-08 | 3.93E-08 | 2.16E-06 | 3.36E-07 | 8.90E-09 | 1.19E-07 | 1.75E-08 | 1.75E-08 | 8.66E-09 | 1.71E-07 |
| 2166 | 258249.69 | 4085275.34 | 9.3482E-08 | 1.33E-06 | 2.32E-07 | 2.32E-07 | 1.29E-07 | 2.02E-06 | 1.51E-08 | 2.02E-07 | 3.62E-08 | 3.62E-08 | 1.99E-06 | 3.10E-07 | 8.20E-09 | 1.10E-07 | 1.61E-08 | 1.61E-08 | 7.98E-09 | 1.56E-07 |
| 2167 | 258273.97 | 4085274.26 | 9.0685E-08 | 1.21E-06 | 2.12E-07 | 2.12E-07 | 1.18E-07 | 1.84E-06 | 1.36E-08 | 1.65E-07 | 3.30E-08 | 3.30E-08 | 1.82E-08 | 2.83E-07 | 7.48E-09 | 9.98E-08 | 1.47E-08 | 1.47E-08 | 7.28E-09 | 1.44E-07 |
| 2168 | 258298.25 | 4085273.19 | 8.1891E-08 | 1.09E-06 | 1.91E-07 | 1.91E-07 | 1.67E-07 | 1.66E-06 | 1.24E-08 | 1.67E-07 | 2.98E-08 | 2.98E-08 | 1.64E-06 | 2.55E-07 | 6.75E-09 | 9.03E-08 | 1.33E-08 | 1.33E-08 | 6.57E-09 | 1.30E-07 |
| 2169 | 258322.53 | 4085272.11 | 7.3275E-08 | 9.79E-07 | 1.71E-07 | 1.71E-07 | 9.51E-08 | 1.49E-06 | 1.11E-08 | 1.49E-07 | 2.67E-08 | 2.67E-08 | 1.47E-08 | 2.28E-07 | 6.04E-09 | 6.07E-08 | 1.19E-08 | 1.19E-08 | 5.88E-09 | 1.16E-07 |
| 2170 | 258346.82 | 4085271.04 | 6.5022E-08 | 8.69E-07 | 1.52E-07 | 1.52E-07 | 8.46E-08 | 1.32E-06 | 9.87E-09 | 1.32E-07 | 2.37E-08 | 2.37E-08 | 1.30E-08 | 2.01E-07 | 5.36E-09 | 7.16E-08 | 1.05E-08 | 1.05E-08 | 5.22E-09 | 1.03E-07 |
| 2171 | 258371.1 | 4085269.96 | 5.753E-08 | 7.68E-07 | 1.34E-07 | 1.34E-07 | 7.46E-08 | 1.17E-06 | 8.73E-06 | 1.17E-07 | 2.10E-08 | 2.10E-08 | 1.15E-08 | 1.79E-07 | 4.74E-09 | 6.32E-08 | 9.32E-09 | 9.35E-08 | 4.62E-09 | 9.12E-08 |
| 2172 | 257551.38 | 4085347.87 | 1.0497E-07 | 1.40E-06 | 2.45E-07 | 2.45E-07 | 1.37E-07 | 2.13E-06 | 1.59E-08 | 2.14E-07 | 3.82E-08 | 3.82E-08 | 2.10E-08 | 3.27E-07 | 8.45E-09 | 1.16E-07 | 1.70E-08 | 1.70E-08 | 8.42E-09 | 1.67E-07 |
| 2173 | 257510.12 | 4085332.8 | 1.0381E-07 | 1.37E-06 | 2.40E-07 | 2.40E-07 | 1.34E-07 | 2.09E-06 | 1.56E-08 | 2.09E-07 | 3.75E-08 | 3.75E-08 | 2.06E-08 | 3.70E-07 | 8.48E-09 | 1.13E-07 | 1.67E-08 | 1.67E-08 

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1965 | 256594.41 | 4083871.98 | 1.0951E-09 | 1.46E-08 | 2.55E-09 | 2.55E-09 | 1.42E-09 | 2.23E-08 | 1.66E-10 | 2.23E-09 | 3.99E-10 | 3.99E-10 | 2.19E-10 | 2.41E-09 | 9.03E-11 | 1.21E-09 | 1.77E-10 | 1.77E-10 | 8.79E-11 | 1.74E-09 |
| 1966 | 256634.4 | 4083853.51 | 1.0914E-09 | 1.46E-08 | 2.55E-09 | 2.55E-09 | 1.42E-09 | 2.22E-08 | 1.66E-10 | 2.22E-09 | 3.98E-10 | 3.98E-10 | 2.19E-10 | 3.40E-09 | 9.00E-11 | 1.20E-09 | 1.77E-10 | 1.77E-10 | 8.76E-11 | 1.73E-09 |
| 1967 | 256674.29 | 4083835.04 | 1.0896E-09 | 1.46E-08 | 2.54E-09 | 2.54E-09 | 1.42E-09 | 2.21E-08 | 1.85E-10 | 2.22E-09 | 3.97E-10 | 3.97E-10 | 2.18E-10 | 3.39E-09 | 8.98E-11 | 1.20E-09 | 1.77E-10 | 1.77E-10 | 8.74E-11 | 1.73E-09 |
| 1968 | 256714.37 | 4083816.56 | 1.0878E-09 | 1.45E-08 | 2.54E-09 | 2.54E-09 | 1.41E-09 | 2.21E-08 | 1.65E-10 | 2.21E-09 | 3.96E-10 | 3.96E-10 | 2.18E-10 | 3.39E-09 | 8.97E-11 | 1.20E-09 | 1.76E-10 | 1.76E-10 | 6.73E-11 | 1.73E-09 |
| 1969 | 256754.36 | 4083798.09 | 1.0861E-09 | 1.45E-08 | 2.53E-09 | 2.53E-09 | 1.41E-09 | 2.21E-08 | 1.65E-10 | 2.21E-09 | 3.96E-10 | 3.96E-10 | 2.17E-10 | 3.38E-09 | 8.95E-11 | 1.20E-09 | 2.76E-10 | 1.76E-10 | 8.71E-11 | 1.72E-09 |
| 1970 | 256794.35 | 4083779.62 | 1.0823E-09 | 1.43E-08 | 2.53E-09 | 2.53E-09 | 1.41E-09 | 2.20E-08 | 1.64E-10 | 2.20E-09 | 3.94E-10 | 3.94E-10 | 2.17E-10 | 3.37E-09 | 8.92E-11 | 1.19E-09 | 1.75E-10 | 1.75E-10 | 8.68E-11 | 1.72E-09 |
| 1971 | 258624.33 | 4082761.14 | 1.0787E-09 | 1.44E-08 | 2.52E-09 | 2.32E-09 | 1.40E-09 | 2.19E-08 | 1.64E-10 | 2.20E-09 | 2.93E-10 | 3.93E-10 | 2.16E-10 | 2.36E-09 | 8.89E-11 | 1.19E-09 | 1.75E-10 | 1.75E-10 | 8.65E-11 | 1.71E-09 |
| 1972 | 256874.32 | 4083742.87 | 1.0769E-09 | 1.44E-08 | 2.51E-09 | 2.51E-09 | 1.40E-09 | 2.19E-08 | 1.63E-10 | 2.19E-09 | 2.92E-10 | 2.92E-10 | 2.16E-10 | 3.35E-09 | 8.88E-11 | 1.19E-09 | 1.75E-10 | 1.75E-10 | 8.64E-11 | 1.71E-09 |
| 1973 | 256914.31 | 4083724.2 | 1.0732E-09 | 1.43E-08 | 2.50E-09 | 2.50E-09 | 1.40E-09 | 2.18E-08 | 1.83E-10 | 2.18E-09 | 2.91E-10 | 2.91E-10 | 2.15E-10 | 3.34E-09 | 8.85E-11 | 1.19E-09 | 2.74E-10 | 1.74E-10 | 8.61E-11 | 1.70E-09 |
| 1974 | 256954.29 | 4083705.72 | 1.0696E-09 | 1.43E-08 | 2.50E-09 | 2.50E-09 | 1.39E-09 | 2.17E-08 | 1.62E-10 | 2.18E-09 | 3.90E-10 | 2.90E-10 | 2.14E-10 | 3.32E-09 | 8.62E-11 | 1.18E-09 | 1.72E-10 | 1.73E-10 | 8.58E-11 | 1.70E-09 |
| 1975 | 256994.28 | 4083687.25 | 1.0659E-09 | 1.42E-08 | 2.49E-09 | 2.49E-09 | 1.39E-09 | 2.17E-08 | 1.62E-10 | 2.17E-09 | 2.88E-10 | 2.88E-10 | 2.13E-10 | 3.32E-09 | 8.79E-11 | 1.17E-09 | 2.72E-10 | 1.73E-10 | 8.55E-11 | 1.69E-09 |
| 1976 | 257034.27 | 4083668.78 | 1.0605E-09 | 1.42E-08 | 2.47E-09 | 2.47E-09 | 1.38E-09 | 2.16E-08 | 1.61E-10 | 2.16E-09 | 2.86E-10 | 2.66E-10 | 2.12E-10 | 2.30E-09 | 8.74E-11 | 1.17E-09 | 1.72E-10 | 1.72E-10 | 8.51E-11 | 1.68E-09 |
| 1977 | 252074.25 | 4083650.3 | 1.0532E-09 | 1.41E-08 | 2.46E-09 | 2.46E-09 | 1.37E-09 | 2.14E-08 | 1.60E-10 | 2.14E-09 | 2.84E-10 | 3.84E-10 | 2.11E-10 | 3.28E-09 | 8.68E-11 | 1.16E-09 | 1.71E-10 | 1.71E-10 | 8.45E-11 | 1.67E-09 |
| 1978 | 257114.24 | 4083631.83 | 1.0441E-09 | 1.39E-08 | 2.44E-09 | 2.44E-09 | 1.36E-09 | 2.12E-08 | 1.58E-10 | 2.12E-09 | 3.80E-10 | 2.80E-10 | 2.09E-10 | 3.25E-09 | 8.61E-11 | 1.15E-09 | 1.69E-10 | 1.69E-10 | 8.38E-11 | 1.66E-09 |
| 1979 | 257154.23 | 4083612.36 | 1.0311E-09 | 1.38E-08 | 2.41E-09 | 2.41E-09 | 1.34E-09 | 2.10E-08 | 1.57E-10 | 2.10E-09 | 3.76E-10 | 3.76E-10 | 2.07E-10 | 3.22E-09 | 8.52E-11 | 1.14E-09 | 1.67E-10 | 1.67E-10 | 8.29E-11 | 1.64E-09 |
| 1980 | 257194.21 | 4083594.88 | 1.0166E-09 | 1.36E-08 | 2.38E-09 | 2.38E-09 | 1.32E-09 | 2.07E-08 | 1.55E-10 | 2.07E-09 | 3.71E-10 | 2.71E-10 | 2.04E-10 | 3.17E-09 | 8.40E-11 | 1.12E-09 | 1.65E-10 | 1.65E-10 | 8.17E-11 | 1.62E-09 |
| 1981 | 257234.2 | 4083578.41 | 1.0022E-09 | 1.34E-08 | 2.24E-09 | 2.34E-09 | 1.30E-09 | 2.04E-08 | 1.52E-10 | 2.04E-09 | 2.63E-10 | 2.63E-10 | 2.01E-10 | 2.12E-09 | 8.26E-11 | 1.10E-09 | 1.62E-10 | 1.62E-10 | 8.04E-11 | 1.59E-09 |
| 1982 | 257274.19 | 4083557.94 | 9.8576E-10 | 1.32E-08 | 2.30E-09 | 2.30E-09 | 1.28E-09 | 2.00E-08 | 1.50E-10 | 2.01E-09 | 3.59E-10 | 3.59E-10 | 1.97E-10 | 2.07E-09 | 8.12E-11 | 1.08E-09 | 1.60E-10 | 1.60E-10 | 7.91E-11 | 1.57E-09 |
| 1983 | 257314.18 | 4083539.47 | 9.6927E-10 | 1.29E-08 | 2.26E-09 | 2.26E-09 | 1.26E-09 | 1.97E-08 | 1.47E-10 | 1.97E-09 | 2.51E-10 | 2.52E-10 | 1.94E-10 | 3.02E-09 | 7.99E-11 | 1.07E-09 | 1.57E-10 | 1.57E-10 | 7.78E-11 | 1.54E-09 |
| 1984 | 257354.16 | 4083520.99 | 9.5681E-10 | 1.26E-08 | 2.22E-09 | 2.25E-09 | 1.24E-09 | 1.94E-08 | 1.45E-10 | 1.95E-09 | 3.48E-10 | 3.48E-10 | 1.92E-10 | 1.98E-09 | 7.89E-11 | 1.05E-09 | 1.55E-10 | 1.55E-10 | 7.67E-11 | 1.52E-09 |
| 1985 | 257394.15 | 4083502.52 | 9.475E-10 | 1.27E-08 | 2.21E-09 | 2.21E-09 | 1.23E-09 | 1.95E-08 | 1.44E-10 | 1.93E-09 | 3.45E-10 | 2.45E-10 | 1.90E-10 | 2.95E-09 | 7.81E-11 | 1.04E-09 | 1.54E-10 | 1.54E-10 | 7.80E-11 | 1.50E-09 |
| 1986 | 257434.14 | 4083464.05 | 9.4366E-10 | 1.28E-08 | 2.20E-09 | 2.20E-09 | 1.22E-09 | 1.92E-08 | 1.42E-10 | 1.92E-09 | 3.44E-10 | 3.44E-10 | 1.89E-10 | 2.94E-09 | 7.78E-11 | 1.04E-09 | 1.53E-10 | 1.55E-10 | 7.57E-11 | 1.50E-09 |
| 1987 | 256057.58 | 4085032.89 | 3.1358E-09 | 4.16E-08 | 7.27E-09 | 7.27E-09 | 4.05E-09 | 6.22E-08 | 4.75E-10 | 6.54E-09 | 1.14E-09 | 1.14E-09 | 6.24E-10 | 9.71E-09 | 2.57E-10 | 3.43E-09 | 5.05E-10 | 5.05E-10 | 2.50E-10 | 4.95E-09 |
| 1988 | 256059.24 | 4085077.45 | 3.2397E-09 | 4.33E-08 | 7.56E-09 | 7.56E-09 | 4.21E-09 | 6.58E-08 | 4.92E-10 | 6.59E-09 | 1.18E-09 | 1.16E-09 | 6.49E-10 | 1.01E-08 | 2.67E-10 | 3.57E-09 | 5.25E-10 | 5.23E-10 | 2.60E-10 | 5.14E-09 |
| 1989 | 256060.89 | 4085122.02 | 3.3108E-09 | 4.42E-08 | 7.72E-09 | 7.77E-09 | 4.21E-09 | 6.73E-08 | 5.02E-10 | 6.74E-09 | 1.23E-09 | 1.21E-09 | 6.63E-10 | 1.03E-08 | 2.73E-10 | 3.65E-09 | 5.37E-10 | 5.37E-10 | 2.66E-10 | 5.26E-09 |
| 1990 | 256062.54 | 4085166.56 | 3.3472E-09 | 4.47E-08 | 7.81E-09 | 7.81E-09 | 4.35E-09 | 6.80E-08 | 5.08E-10 | 6.81E-09 | 1.22E-09 | 1.22E-09 | 6.70E-10 | 1.04E-08 | 2.78E-10 | 3.69E-09 | 5.42E-10 | 5.42E-10 | 2.69E-10 | 5.21E-09 |
| 1991 | 256064.19 | 4085211.14 | 3.3746E-09 | 4.51E-08 | 7.87E-09 | 7.87E-09 | 4.39E-09 | 6.86E-08 | 5.12E-10 | 6.87E-09 | 1.23E-09 | 1.22E-09 | 6.76E-10 | 1.05E-08 | 2.78E-10 | 3.72E-09 | 5.47E-10 | 5.47E-10 | 2.71E-10 | 5.36E-09 |
| 1992 | 257564.27 | 4085180.58 | 4.0643E-07 | 5.43E-06 | 9.48E-07 | 9.48E-07 | 5.29E-07 | 8.26E-06 | 8.17E-08 | 8.27E-07 | 1.45E-07 | 1.48E-07 | 8.14E-08 | 1.27E-06 | 3.35E-08 | 4.46E-07 | 6.59E-08 | 6.55E-08 | 3.26E-08 | 6.45E-07 |
| 1993 | 257583.55 | 4085179.5 | 4.7924E-07 | 6.40E-06 | 1.12E-06 | 1.12E-06 | 6.23E-07 | 9.74E-06 | 7.27E-08 | 9.75E-07 | 1.75E-07 | 1.75E-07 | 9.60E-08 | 1.49E-06 | 3.95E-08 | 5.26E-07 | 7.77E-08 | 7.77E-08 | 2.84E-08 | 7.61E-07 |
| 1994 | 257612.83 | 4085176.42 | 5.225E-07 | 6.98E-06 | 1.22E-06 | 1.22E-06 | 6.80E-07 | 1.06E-05 | 7.93E-08 | 1.06E-06 | 1.90E-07 | 1.90E-07 | 1.05E-07 | 1.63E-06 | 4.31E-08 | 5.75E-07 | 8.47E-08 | 8.47E-08 | 4.19E-08 | 8.30E-07 |
| 1995 | 257637.11 | 4085177.25 | 5.4921E-07 | 7.34E-06 | 1.26E-06 | 1.28E-06 | 7.14E-07 | 1.12E-05 | 8.34E-08 | 1.12E-06 | 2.00E-07 | 2.00E-07 | 1.10E-07 | 1.71E-06 | 4.53E-08 | 6.05E-07 | 8.90E-08 | 8.90E-08 | 4.41E-08 | 8.72E-07 |
| 1996 | 257661.39 | 4085176.27 | 5.6715E-07 | 7.58E-06 | 1.32E-06 | 1.32E-06 | 7.28E-07 | 1.15E-05 | 8.61E-08 | 1.15E-06 | 2.07E-07 | 2.07E-07 | 1.14E-07 | 1.77E-06 | 4.67E-08 | 8.24E-07 | 9.19E-08 | 9.19E-08 | 4.55E-08 | 9.01E-07 |
| 1997 | 257685.68 | 4085175.2 | 5.7977E-07 | 7.74E-06 | 1.35E-06 | 1.35E-06 | 7.54E-07 | 1.16E-05 | 8.80E-08 | 1.16E-06 | 2.11E-07 | 2.11E-07 | 1.16E-07 | 1.81E-06 | 4.78E-08 | 6.38E-07 | 9.40E-08 | 9.40E-08 | 4.65E-08 | 9.21E-07 |
| 1998 | 257709.96 | 4085174.12 | 5.8912E-07 | 7.87E-06 | 1.37E-06 | 1.37E-06 | 7.66E-07 | 1.20E-05 | 6.94E-08 | 1.20E-06 | 2.15E-07 | 2.13E-07 | 1.19E-07 | 1.84E-06 | 4.86E-08 | 6.49E-07 | 9.55E-08 | 9.55E-08 | 4.73E-08 | 9.35E-07 |
| 1999 | 257734.24 | 4085173.05 | 5.9597E-07 | 7.96E-06 | 1.29E-06 | 1.29E-06 | 7.75E-07 | 1.21E-05 | 9.04E-08 | 1.21E-06 | 2.17E-07 | 2.17E-07 | 1.19E-07 | 1.66E-06 | 4.91E-08 | 6.56E-07 | 9.66E-08 | 9.66E-08 | 4.78E-08 | 9.46E-07 |
| 2000 | 257758.52 | 4085171.97 | 6.0106E-07 | 8.03E-06 | 1.40E-06 | 1.40E-06 | 7.82E-07 | 1.22E-09 | 9.12E-08 | 1.22E-06 | 2.19E-07 | 2.19E-07 | 1.20E-07 | 1.67E-06 | 4.95E-08 | 8.63E-07 | 9.74E-08 | 9.74E-08 | 4.82E-08 | 9.54E-07 |
| 2001 | 257782.8 | 4085120.9 | 6.0473E-07 | 8.08E-06 | 1.41E-06 | 1.41E-06 | 7.87E-07 | 1.23E-05 | 9.16E-08 | 1.23E-06 | 2.20E-07 | 2.20E-07 | 1.21E-07 | 1.88E-06 | 4.98E-08 | 6.66E-07 | 9.80E-08 | 9.80E-08 | 4.65E-08 | 9.60E-07 |
| 2002 | 257807.08 | 4085169.82 | 6.0748E-07 | 8.11E-06 | 1.42E-06 | 1.42E-06 | 7.90E-07 | 1.22E-09 | 9.22E-08 | 1.24E-06 | 2.21E-07 | 2.21E-07 | 1.22E-07 | 1.89E-06 | 5.01E-08 | 6.69E-07 | 9.85E-08 | 9.85E-08 | 4.87E-08 | 9.65E-07 |
| 2003 | 257831.37 | 4085168.75 | 6.0916E-07 | 8.14E-06 | 1.42E-06 | 1.42E-06 | 7.92E-07 | 1.24E-05 | 9.25E-08 | 1.24E-06 | 2.22E-07 | 2.22E-07 | 1.22E-07 | 1.90E-06 | 5.02E-08 | 6.71E-07 | 9.87E-08 | 9.87E-08 | 4.89E-08 | 9.67E-07 |
| 2004 | 257855.65 | 4085167.67 | 6.1023E-07 | 8.15E-06 | 1.42E-06 | 1.42E-06 | 7.94E-07 | 1.24E-05 | 9.26E-08 | 1.24E-06 | 2.22E-07 | 2.22E-07 | 1.22E-07 | 1.90E-06 | 5.02E-08 | 6.72E-07 | 9.89E-08 | 9.89E-08 | 4.90E-08 | 9.69E-07 |
| 2005 | 257879.92 | 4085166.59 | 6.1088E-07 | 8.16E-06 | 1.43E-06 | 1.43E-06 | 7.95E-07 | 1.24E-05 | 9.27E-08 | 1.24E-06 | 2.23E-07 | 2.23E-07 | 1.22E-07 | 1.90E-06 | 5.04E-08 | 6.73E-07 | 9.90E-08 | 9.90E-08 | 4.90E-08 | 9.70E-07 |
| 2006 | 257904.21 | 4085165.52 | 6.1075E-07 | 8.16E-06 | 1.42E-06 | 1.42E-06 | 7.94E-07 | 1.24E-05 | 9.27E-08 | 1.24E-06 | 2.22E-07 | 2.22E-07 | 1.22E-07 | 1.90E-06 | 5.02E-08 | 6.72E-07 | 9.90E-08 | 9.90E-08 | 4.90E-08 | 9.70E-07 |
| 2007 | 257928.49 | 4085164.44 | 6.1021E-07 | 8.15E-06 | 1.42E-06 | 1.42E-06 | 7.94E-07 | 1.24E-05 | 9.26E-08 | 1.24E-06 | 2.22E-07 | 2.22E-07 | 1.22E-07 | 1.90E-06 | 5.03E-08 | 6.72E-07 | 9.89E-08 | 9.89E-08 | 4.90E-08 | 9.69E-07 |
| 2008 | 257952.78 | 4085163.27 | 6.0905E-07 | 8.14E-06 | 1.42E-06 | 1.42E-06 | 7.92E-07 | 1.24E-05 | 9.24E-08 | 1.24E-06 | 2.22E-07 | 2.22E-07 | 1.22E-07 | 1.90E-06 | 5.02E-08 | 6.71E-07 | 9.87E-08 | 9.87E-08 | 4.89E-08 | 9.67E-07 |
| 2009 | 257977.06 | 4085162.19 | 6.0715E-07 | 8.11E-06 | 1.42E-06 | 1.42E-06 | 7.90E-07 | 1.22E-05 | 9.22E-08 | 1.24E-06 | 2.21E-07 | 2.21E-07 | 1.22E-07 | 1.89E-06 | 5.01E-08 | 6.69E-07 | 9.84E-08 | 9.84E-08 | 4.87E-08 | 9.64E-07 |
| 2010 | 256001.24 | 4085161.22 | 6.0496E-07 | 8.08E-06 | 1.41E-06 | 1.41E-06 | 7.87E-07 | 1.25E-05 | 9.18E-08 | 1.23E-06 | 2.20E-07 | 2.20E-07 | 1.21E-07 | 1.88E-06 | 4.99E-08 | 6.66E-07 | 9.80E-08 | 9.80E-08 | 4.85E-08 | 9.61E-07 |
| 2011 | 258025.62 | 4085160.14 | 6.0214E-07 | 8.04E-06 | 1.40E-06 | 1.40E-06 | 7.82E-07 | 1.22E-05 | 9.14E-08 | 1.23E-06 | 2.19E-07 | 2.19E-07 | 1.21E-07 | 1.88E-06 | 4.96E-08 | 6.63E-07 | 9.76E-08 | 9.76E-08 | 4.83E-08 | 9.56E-07 |
| 2012 | 258049.9 | 4085159.07 | 5.9857E-07 | 6.00E-06 | 1.40E-06 | 1.40E-06 | 7.79E-07 | 1.22E-05 | 9.08E-08 | 1.22E-06 | 2.18E-07 | 2.18E-07 | 1.20E-07 | 1.86E-08 | 4.93E-08 | 6.59E-07 | 9.70E-06 | 9.70E-08 | 4.80E-08 | 9.50E-07 |
| 2013 | 258074.18 | 4085157.99 | 5.9282E-07 | 7.93E-06 | 1.39E-06 | 1.39E-06 | 7.72E-07 | 1.21E-09 | 9.01E-08 | 1.21E-06 | 2.16E-07 | 2.16E-07 | 1.19E-07 | 1.85E-06 | 4.89E-08 | 6.54E-07 | 9.62E-08 | 9.82E-08 | 4.76E-08 | 9.43E-07 |
| 2014 | 258098.47 | 4085156.92 | 5.7834E-07 | 7.75E-06 | 1.35E-06 | 1.35E-06 | 7.52E-07 | 1.16E-05 | 8.76E-08 | 1.18E-06 | 2.11E-07 | 2.11E-07 | 1.16E-07 | 1.80E-06 | 4.77E-08 | 8.37E-07 | 9.37E-09 | 9.37E-06 | 4.64E-08 | 9.36E-07 |
| 2015 | 258122.75 | 4085155.84 | 5.7068E-07 | 7.82E-06 | 1.22E-06 | 1.22E-06 | 7.42E-07 | 1.18E-05 | 8.66E-08 | 1.16E-06 | 2.08E-07 | 2.08E-07 | 1.14E-07 | 1.78E-06 | 4.70E-08 | 8.28E-07 | 9.25E-08 | 9.25E-08 | 4.58E-08 | 9.06E-07 |
| 2016 | 258147.03 | 4085154.76 | 5.6175E-07 | 7.50E-06 | 1.31E-06 | 1.31E-06 | 7.31E-07 | 1.14E-05 | 8.53E-08 | 1.14E-06 | 2.05E-07 | 2.05E-07 | 1.13E-07 | 1.75E-06 | 4.63E-08 | 6.19E-07 | 9.10E-06 | 9.10E-08 | 4.51E-08 | 8.92E-07 |
| 2017 | 258171.31 | 4085153.69 | 5.5059E-07 | 7.35E-06 | 1.26E-06 | 1.28E-06 | 7.16E-07 | 1.12E-05 | 8.36E-08 | 1.12E-06 | 2.01E-07 | 2.01E-07 | 1.10E-07 | 1.72E-06 | 4.54E-08 | 6.06E-07 | 8.92E-08 | 8.92E-08 | 4.42E-08 | 8.74E-07 |
| 2018 | 258195.59 | 4085152.61 | 5.3616E-07 | 7.16E-06 | 1.25E-06 | 1.25E-06 | 6.97E-07 | 1.09E-09 | 8.14E-08 | 1.09E-06 | 1.95E-07 | 1.95E-07 | 1.07E-07 | 1.67E-06 | 4.42E-08 | 5.90E-07 | 8.69E-08 | 8.69E-08 | 4.30E-08 | 8.51E-07 |
| 2019 | 258219.88 | 4085151.54 | 5.1748E-07 | 6.91E-06 | 1.21E-06 | 1.21E-06 | 6.73E-07 | 1.05E-05 | 7.85E-08 | 1.05E-06 | 1.89E-07 | 1.89E-07 | 1.04E-07 | 1.61E-06 | 4.27E-08 | 5.70E-07 | 8.39E-06 | 8.39E-06 | 4.15E-08 | 8.22E-07 |
| 2020 | 258244.18 | 4085150.46 | 4.9225E-07 | 6.59E-06 | 1.29E-06 | 1.29E-06 | 6.42E-07 | 1.00E-05 | 7.49E-08 | 1.00E-06 | 1.80E-07 | 1.80E-07 | 9.88E-08 | 1.54E-06 | 4.07E-08 | 5.43E-07 | 7.99E-08 | 7.89E-06 | 3.96E-08 | 7.83E-07 |
| 2021 | 258268.44 | 4085149.39 | 4.608E-07 | 6.18E-06 | 1.08E-06 | 1.08E-06 | 5.99E-07 | 9.37E-06 | 6.99E-08 | 9.38E-07 | 1.66E-07 | 1.66E-07 | 9.23E-08 | 1.44E-06 | 3.80E-08 | 5.07E-07 | 7.47E-06 | 7.47E-08 | 3.70E-08 | 7.32E-07 |
| 2022 | 258292.72 | 4085148.21 | 4.1658E-07 | 5.56E-06 | 9.72E-07 | 9.77E-07 | 5.42E-07 | 6.47E-06 | 6.32E-08 | 8.48E-07 | 1.52E-07 | 1.52E-07 | 8.34E-08 | 1.30E-06 | 3.43E-08 | 4.59E-07 | 6.75E-06 | 6.75E-08 | 3.34E-08 | 6.61E-07 |
| 2023 | 258317 | 4085147.24 | 2.5567E-07 | 4.75E-06 | 8.30E-07 | 8.30E-07 | 4.63E-07 | 7.23E-06 | 5.40E-08 | 7.24E-07 | 1.30E-07 | 1.30E-07 | 7.12E-08 | 1.11E-06 | 2.93E-08 | 3.92E-07 | 5.76E-06 | 5.76E-06 | 2.85E-08 | 5.65E-07 |
| 2024 | 258341.28 | 4085146.16 | 2.7699E-07 | 2.70E-06 | 6.46E-07 | 6.46E-07 | 3.60E-07 | 5.65E-06 | 4.20E-08 | 5.64E-07 | 1.01E-07 | 1.01E-07 | 5.55E-08 | 8.63E-07 | 2.28E-08 | 2.05E-07 | 4.49E-06 | 4.49E-08 | 2.22E-08 | 4.40E-07 |
| 2025 | 258365.57 | 4085145.09 | 1.9934E-07 | 2.66E-06 | 4.85E-07 | 4.65E-07 | 2.59E-07 | 4.05E-06 | 3.02E-08 | 4.06E-07 | 7.26E-08 | 7.26E-08 | 3.99E-08 | 6.21E-07 | 1.64E-08 | 2.19E-07 | 3.23E-06 | 3.23E-06 | 1.60E-08 | 2.17E-07 |
| 2026 | 257547.22 | 4085198.96 | 2.8146E-07 | 2.76E-06 | 6.57E-07 | 6.57E-07 | 3.66E-07 | 5.72E-06 | 4.27E-08 | 5.73E-07 | 1.03E-07 | 1.03E-07 | 5.64E-08 | 8.77E-07 | 2.32E-08 | 3.10E-07 | 4.56E-06 | 4.56E-08 | 2.26E-08 | 4.47E-07 |
| 2027 | 257589.65 | 4085204.48 | 3.2723E-07 | 4.27E-06 | 7.64E-07 | 7.64E-07 | 4.26E-07 | 6.65E-06 | 4.97E-08 | 6.66E-07 | 1.19E-07 | 1.19E-07 | 6.56E-08 | 1.02E-08 | 2.70E-08 | 3.60E-07 | 5.31E-08 | 5.31E-08 | 2.63E-06 | 5.20E-07 |
| 2076 | 257612.94 | 4085202.4 | 2.5169E-07 | 4.70E-06 | 8.21E-07 | 8.21E-07 | 4.57E-07 | 7.15E-06 | 5.34E-08 | 7.16E-07 | 1.28E-07 | 1.28E-07 | 7.04E-08 | 1.10E-06 | 2.90E-08 | 3.67E-07 | 5.70E-08 | 5.70E-08 | 2.82E-08 | 5.56E-07 |
| 2029 | 257638.22 | 4085202.22 | 2.6883E-07 | 4.93E-06 | 8.81E-07 | 6.61E-07 | 4.80E-07 | 7.50E-06 | 5.60E-08 | 7.51E-07 | 1.34E-07 | 1.34E-07 | 7.39E-08 | 1.15E-06 | 3.04E-08 | 4.06E-07 | 5.98E-08 | 5.98E-08 | 2.96E-08 | 5.86E-07 |
| 2030 | 257662.5 | 4085201.25 | 2.8116E-07 | 5.09E-06 | 8.89E-07 | 8.89E-07 | 4.96E-07 | 7.75E-06 | 5.76E-08 | 7.76E-07 | 1.39E-07 | 1.39E-07 | 7.63E-06 | 1.19E-06 | 3.14E-08 | 4.20E-07 | 6.18E-06 | 6.18E-08 | 3.06E-08 | 8.05E-07 |
| 2031 | 257686.78 | 4085200.17 | 3.9038E-07 | 5.21E-06 | 9.11E-07 | 9.11E-07 | 5.08E-07 | 7.93E-06 | 5.92E-08 | 7.94E-07 | 1.42E-07 | 1.42E-07 | 7.82E-08 | 1.22E-06 | 3.22E-08 | 4.50E-07 | 6.33E-08 | 6.33E-08 | 3.13E-08 | 8.20E-07 |
| 2032 | 257711.06 | 4085199.1 | 2.9734E-07 | 5.21E-06 | 9.27E-07 | 9.27E-07 | 5.17E-07 | 8.08E-06 | 6.03E-08 | 6.09E-07 | 1.45E-07 | 1.45E-07 | 7.96E-08 | 1.24E-06 | 3.26E-08 | 4.37E-07 | 6.44E-08 | 8.44E-08 | 2.19E-08 | 6.31E-07 |
| 2033 | 257735.35 | 4085198.02 | 4.0272E-07 | 5.26E-06 | 9.40E-07 | 9.40E-07 | 5.24E-07 | 8.18E-06 | 6.12E-08 | 6.20E-07 | 1.47E-07 | 1.47E-07 | 8.07E-08 | 1.25E-06 | 2.32E-08 | 4.43E-07 | 6.52E-08 | 6.53E-06 | 3.21E-08 | 6.39E-07 |
| 2034 | 257759.63 | 4085196.95 | 4.0683E-07 | 5.43E-06 | 9.49E-07 | 9.49E-07 | 5.29E-07 | 8.27E-06 | 6.17E-08 | 6.28E-07 | 1.48E-07 | 1.46E-07 | 8.15E-08 | 1.27E-06 | 2.25E-08 | 4.46E-07 | 6.59E-08 | 6.59E-08 | 3.26E-06 | 6.46E-07 |
| 2035 | 257783.91 | 4085195.87 | 4.1002E-07 | 5.48E-06 | 9.57E-07 | 9.57E-07 | 5.33E-07 | 8.33E-06 | 8.22E-08 | 8.34E-07 | 1.49E-07 | 1.49E-07 | 8.21E-08 | 1.26E-06 | 3.38E-08 | 4.51E-07 | 6.65E-08 | 8.65E-08 | 3.29E-08 | 6.51E-07 |
| 2036 | 257808.19 | 4085194.6 | 4.1227E-07 | 5.51E-06 | 9.62E-07 | 9.62E-07 | 5.36E-07 | 8.38E-06 | 6.26E-08 | 8.39E-07 | 1.50E-07 | 1.50E-07 | 8.28E-08 | 1.26E-06 | 3.40E-08 | 4.54E-07 | 6.66E-08 | 6.68E-06 | 3.31E-08 | 6.55E-07 |
| 2037 | 257832.47 | 4085193.72 | 4.1408E-07 | 5.53E-06 | 9.66E-07 | 9.66E-07 | 5.29E-07 | 8.42E-06 | 6.28E-08 | 8.43E-07 | 1.51E-07 | 1.51E-07 | 6.29E-08 | 1.29E-06 | 3.41E-08 | 4.56E-07 | 6.71E-08 | 6.71E-08 | 3.32E-06 | 6.58E-07 |
| 2038 | 257856.75 | 4085192.65 | 4.1515E-07 | 5.55E-06 | 9.69E-07 | 9.69E-07 | 5.40E-07 | 8.44E-06 | 6.30E-08 | 8.45E-07 | 1.51E-07 | 1.51E-07 | 8.31E-08 | 1.29E-06 | 2.42E-08 | 4.57E-07 | 6.73E-08 | 6.73E-08 | 3.33E-08 | 6.59E-07 |
| 2039 | 257881.04 | 4085191.57 | 4.157E-07 | 5.55E-06 | 9.70E-07 | 9.70E-07 | 5.41E-07 | 8.45E-06 | 6.31E-08 | 8.46E-07 | 1.51E-07 | 1.51E-07 | 6.32E-08 | 1.30E-06 | 2.43E-08 | 4.58E-07 | 6.74E-08 | 6.74E-08 | 3.33E-08 | 8.60E-07 |
| 2040 | 257905.32 | 4085190.49 | 4.157E-07 | 5.55E-06 | 9.70E-07 | 9.70E-07 | 5.41E-07 | 8.45E-06 | 6.31E-08 | 8.46E-07 | 1.51E-07 | 1.51E-07 | 6.25E-08 | 1.20E-06 | 2.42E-08 | 4.56E-07 | 6.74E-08 | 8.74E-08 | 2.33E-06 | 6.60E-07 |
| 2041 | 257929.6 | 4085189.42 | 4.1511E-07 | 5.54E-06 | 9.68E-07 | 9.68E-07 | 5.40E-07 | 8.44E-06 | 6.30E-08 | 8.43E-07 | 1.51E-07 | 1.51E-07 | 8.31E-06 | 1.29E-06 | 3.42E-08 | 4.57E-07 | 6.73E-08 | 8.73E-08 | 3.33E-06 | 6.59E-07 |
| 2042 | 257953.88 | 4085188.34 | 4.1404E-07 | 5.53E-06 | 9.66E-07 | 9.66E-07 | 5.29E-07 | 8.42E-06 | 6.28E-08 | 8.43E-07 | 1.51E-07 | 1.51E-07 | 6.29E-08 | 1.29E-06 | 2.41E-08 | 4.56E-07 | 6.71E-08 | 6.71E-08 | 3.32E-06 | 6.57E-07 |
| 2043 | 257978.18 | 4085187.27 | 4.0728E-07 | 5.44E-06 | 9.50E-07 | 9.50E-07 | 5.30E-07 | 8.28E-06 | 6.18E-08 | 8.29E-07 | 1.48E-07 | 1.46E-07 | 6.16E-06 | 1.27E-06 | 3.36E-08 | 4.48E-07 | 6.60E-06 | 6.60E-08 | 2.27E-06 | 6.47E-07 |
| 2044 | 258002.45 | 4085186.19 | 4.0496E-07 | 5.41E-06 | 9.45E-07 | 9.45E-07 | 5.27E-07 | 8.23E-06 | 6.13E-08 | 8.24E-07 | 1.48E-07 | 1.46E-07 | 6.11E-08 | 1.26E-06 | 2.54E-08 | 4.46E-07 | 6.56E-08 | 6.56E-08 | 2.25E-08 | 6.42E-07 |
| 2045 | 258026.73 | 4085185.12 | 4.0203E-07 | 5.37E-06 | 9.38E-07 | 9.38E-07 | 5.23E-07 | 8.17E-06 | 6.10E-08 | 6.18E-07 | 1.46E-07 | 1.46E-07 | 6.05E-08 | 1.25E-06 | 3.31E-08 | 4.43E-07 | 6.52E-08 | 6.52E-08 | 2.23E-08 | 6.38E-07 |
| 2046 | 258051.01 | 4085184.04 | 3.9834E-07 | 5.32E-06 | 9.29E-07 | 9.29E-07 | 5.16E-07 | 8.10E-06 | 6.05E-08 | 8.11E-07 | 1.45E-07 | 1.45E-07 | 7.98E-09 | 1.24E-06 | 3.28E-08 | 4.39E-07 | 6.46E-08 | 6.46E-08 | 2.20E-06 | 6.33E-07 |
| 2047 | 256075.29 | 4085182.97 | 3.9366E-07 | 5.26E-06 | 9.18E-07 | 9.18E-07 | 5.12E-07 | 8.00E-06 | 5.97E-08 | 6.01E-07 | 1.43E-07 | 1.42E-07 | 7.88E-08 | 1.22E-06 | 2.24E-08 | 4.22E-07 | 6.38E-08 | 6.38E-08 | 2.16E-08 | 8.25E-07 |
| 2048 | 256099.57 | 4085181.89 | 3.8791E-07 | 5.18E-06 | 9.05E-07 | 9.05E-07 | 5.05E-07 | 7.66E-08 | 5.89E-08 | 7.89E-07 | 1.41E-07 | 1.41E-07 | 7.77E-06 | 1.21E-06 | 3.20E-08 | 4.27E-07 | 6.29E-08 | 6.29E-08 | 2.11E-08 | 6.16E-07 |
| 2049 | 258123.85 | 4085180.82 | 3.8077E-07 | 5.09E-06 | 8.88E-07 | 8.88E-07 | 4.95E-07 | 7.74E-06 | 5.78E-08 | 7.75E-07 | 1.39E-07 | 1.39E-07 | 7.63E-08 | 1.19E-06 | 2.14E-08 | 4.19E-07 | 6.17E-08 | 8.17E-08 | 3.05E-08 | 6.05E-07 |
| 2050 | 258148.14 | 4085179.74 | 3.7202E-07 | 4.97E-06 | 8.68E-07 | 8.68E-07 | 4.84E-07 | 7.56E-06 | 5.65E-08 | 7.57E-07 | 1.36E-07 | 1.36E-07 | 7.45E-08 | 1.16E-06 | 3.07E-08 | 4.10E-07 | 6.03E-08

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1842 | 256660.47 | 4085099.8 | 5.8836E-09 | 7.83E-08 | 1.37E-08 | 1.37E-08 | 7.63E-09 | 1.19E-07 |
| 1843 | 256662.13 | 4085144.16 | 6.0512E-09 | 8.08E-08 | 1.41E-08 | 1.41E-08 | 7.87E-09 | 1.23E-07 |
| 1844 | 256662.95 | 4085166.64 | 6.1296E-09 | 8.19E-08 | 1.42E-08 | 1.43E-09 | 7.97E-09 | 1.25E-07 |
| 1845 | 256464.16 | 4084975.07 | 3.9613E-09 | 5.29E-08 | 9.24E-09 | 9.24E-09 | 5.15E-09 | 8.05E-08 |
| 1846 | 256479.51 | 4084933.62 | 3.6697E-09 | 4.90E-08 | 8.56E-09 | 8.56E-09 | 4.77E-09 | 7.46E-08 |
| 1847 | 256494.66 | 4084892.17 | 3.3891E-09 | 4.53E-08 | 7.91E-09 | 7.91E-09 | 4.41E-09 | 6.89E-08 |
| 1848 | 256510.21 | 4084850.72 | 3.1413E-09 | 4.20E-08 | 7.33E-09 | 7.33E-09 | 4.09E-09 | 6.38E-08 |
| 1849 | 256525.56 | 4084809.27 | 2.9427E-09 | 3.93E-08 | 6.87E-09 | 6.87E-09 | 3.83E-09 | 5.98E-08 |
| 1850 | 256540.91 | 4084767.82 | 2.786E-09 | 3.72E-08 | 6.50E-09 | 6.50E-09 | 2.62E-08 | 5.66E-08 |
| 1851 | 256556.26 | 4084726.36 | 2.6548E-09 | 3.55E-08 | 6.19E-09 | 6.19E-09 | 3.45E-09 | 5.40E-08 |
| 1852 | 256571.61 | 4084684.91 | 2.5309E-09 | 3.38E-08 | 5.90E-09 | 5.90E-09 | 3.29E-09 | 5.14E-08 |
| 1853 | 256586.96 | 4084643.46 | 2.3961E-09 | 3.20E-08 | 5.59E-09 | 5.59E-09 | 3.12E-09 | 4.87E-08 |
| 1854 | 256602.31 | 4084602.01 | 2.2467E-09 | 3.00E-08 | 5.24E-09 | 5.24E-09 | 2.92E-09 | 4.57E-08 |
| 1855 | 256617.66 | 4084560.58 | 2.09E-09 | 2.79E-08 | 4.88E-09 | 4.88E-09 | 2.73E-09 | 4.25E-08 |
| 1856 | 256633.01 | 4084519.11 | 1.9406E-09 | 2.59E-08 | 4.52E-09 | 4.52E-09 | 2.52E-09 | 3.94E-08 |
| 1857 | 256648.36 | 4084477.66 | 1.815E-09 | 2.42E-08 | 4.23E-09 | 4.23E-09 | 2.36E-09 | 3.68E-08 |
| 1858 | 256663.72 | 4084436.2 | 1.7183E-08 | 2.30E-08 | 4.01E-09 | 4.01E-09 | 2.23E-09 | 3.49E-08 |
| 1859 | 256679.06 | 4084394.75 | 1.6508E-09 | 2.21E-08 | 3.85E-09 | 3.85E-09 | 2.15E-09 | 3.36E-08 |
| 1860 | 256694.41 | 4084352.3 | 1.6035E-09 | 2.14E-08 | 3.74E-09 | 3.74E-09 | 2.09E-09 | 3.26E-08 |
| 1861 | 256709.70 | 4084211.85 | 1.567E-09 | 2.09E-08 | 3.66E-09 | 3.66E-09 | 2.04E-09 | 3.18E-08 |
| 1862 | 256725.11 | 4084270.4 | 1.5342E-09 | 2.05E-09 | 2.58E-09 | 3.58E-09 | 2.00E-09 | 3.12E-08 |
| 1863 | 256740.45 | 4084228.95 | 1.5014E-09 | 2.01E-08 | 3.50E-09 | 3.50E-09 | 1.95E-09 | 3.05E-08 |
| 1864 | 256758.19 | 4084198.95 | 1.496E-09 | 2.00E-08 | 3.49E-09 | 3.49E-09 | 1.95E-09 | 3.04E-08 |
| 1865 | 256808.82 | 4084180.41 | 1.5124E-09 | 2.02E-08 | 3.53E-09 | 3.53E-08 | 1.97E-09 | 3.07E-08 |
| 1866 | 256848.45 | 4084101.88 | 1.5824E-09 | 2.05E-08 | 3.58E-09 | 3.58E-09 | 1.99E-09 | 3.11E-08 |
| 1867 | 256888.58 | 4084143.34 | 1.5524E-09 | 2.07E-08 | 2.82E-09 | 3.62E-09 | 2.02E-09 | 3.16E-08 |
| 1868 | 256928.7 | 4084124.6 | 1.5743E-09 | 2.10E-08 | 3.07E-09 | 3.67E-09 | 2.05E-09 | 3.20E-08 |
| 1869 | 256968.83 | 4084106.26 | 1.5889E-09 | 2.12E-08 | 3.71E-09 | 3.71E-09 | 2.07E-09 | 3.23E-08 |
| 1870 | 257008.96 | 4084087.72 | 1.5944E-09 | 2.13E-08 | 3.72E-09 | 3.72E-09 | 2.07E-09 | 3.24E-08 |
| 1871 | 257049.08 | 4084069.19 | 1.5889E-09 | 2.12E-08 | 3.71E-09 | 3.71E-09 | 2.07E-09 | 3.23E-08 |
| 1872 | 257089.21 | 4084050.65 | 1.5743E-09 | 2.10E-08 | 3.67E-09 | 3.67E-09 | 2.05E-09 | 3.20E-09 |
| 1873 | 257129.34 | 4084032.11 | 1.5524E-09 | 2.07E-08 | 3.62E-09 | 3.62E-09 | 2.02E-09 | 3.16E-08 |
| 1874 | 257169.47 | 4084013.57 | 1.5288E-09 | 2.04E-08 | 3.57E-09 | 3.57E-09 | 1.99E-09 | 3.11E-08 |
| 1875 | 257209.59 | 4083995.03 | 1.5051E-09 | 2.01E-08 | 3.51E-09 | 3.51E-09 | 1.96E-09 | 3.06E-08 |
| 1876 | 257249.72 | 4083976.5 | 1.485E-09 | 1.98E-08 | 3.46E-09 | 3.46E-09 | 1.93E-09 | 3.01E-08 |
| 1872 | 257289.85 | 4083957.96 | 1.4723E-09 | 1.97E-09 | 3.41E-09 | 3.45E-09 | 1.92E-09 | 2.99E-08 |
| 1878 | 257329.97 | 4083939.42 | 1.465E-09 | 1.96E-08 | 3.42E-09 | 3.42E-09 | 1.91E-09 | 2.98E-08 |
| 1879 | 257370.1 | 4083920.88 | 1.465E-09 | 1.96E-08 | 3.42E-09 | 3.42E-09 | 1.91E-09 | 2.98E-08 |
| 1880 | 257410.23 | 4083902.34 | 1.4686E-09 | 1.96E-08 | 3.43E-09 | 3.43E-09 | 1.91E-09 | 2.98E-08 |
| 1881 | 257450.36 | 4083883.81 | 1.4759E-09 | 1.97E-08 | 3.44E-09 | 3.44E-09 | 1.92E-09 | 3.00E-08 |
| 1882 | 256457.31 | 4085018.08 | 4.2465E-09 | 5.67E-08 | 9.91E-09 | 9.91E-09 | 5.52E-09 | 8.63E-08 |
| 1883 | 256458.96 | 4085062.64 | 4.4888E-09 | 6.01E-08 | 1.05E-08 | 1.05E-08 | 5.85E-09 | 9.14E-08 |
| 1884 | 256460.61 | 4085107.2 | 4.6646E-09 | 0.25E-08 | 1.09E-08 | 1.09E-08 | 6.07E-09 | 9.48E-08 |
| 1885 | 256462.26 | 4085151.72 | 4.7685E-09 | 0.37E-08 | 1.11E-08 | 1.11E-09 | 6.20E-09 | 9.69E-08 |
| 1886 | 256463.91 | 4085196.33 | 4.8541E-09 | 6.48E-08 | 1.13E-08 | 1.13E-08 | 6.31E-09 | 9.87E-08 |
| 1887 | 256264.28 | 4084982.52 | 3.8891E-09 | 4.53E-09 | 7.91E-09 | 7.91E-09 | 4.41E-09 | 6.89E-08 |
| 1888 | 256279.6 | 4084941.15 | 3.1723E-09 | 4.24E-09 | 7.40E-09 | 7.40E-09 | 4.13E-09 | 6.45E-08 |
| 1889 | 256294.92 | 4084899.78 | 2.9518E-09 | 3.94E-08 | 6.89E-09 | 6.89E-09 | 3.84E-09 | 6.00E-08 |
| 1890 | 256310.24 | 4084858.42 | 2.7496E-09 | 3.67E-08 | 6.41E-09 | 6.41E-09 | 3.56E-09 | 5.59E-08 |
| 1891 | 256325.56 | 4084617.05 | 2.5763E-09 | 3.44E-08 | 6.02E-09 | 6.02E-09 | 3.35E-09 | 5.24E-08 |
| 1892 | 256340.87 | 4084775.68 | 2.4418E-09 | 3.26E-08 | 5.70E-09 | 5.70E-09 | 3.18E-09 | 4.96E-08 |
| 1892 | 256356.19 | 4084734.31 | 2.3341E-09 | 3.12E-08 | 5.45E-09 | 5.45E-09 | 3.04E-09 | 4.74E-08 |
| 1894 | 256371.51 | 4084692.95 | 2.2448E-09 | 3.00E-09 | 5.24E-09 | 5.24E-09 | 2.92E-09 | 4.56E-08 |
| 1895 | 256186.83 | 4084651.58 | 2.101E-09 | 2.89E-08 | 5.04E-09 | 5.04E-09 | 2.81E-09 | 4.39E-08 |
| 1896 | 256402.15 | 4084610.21 | 2.0699E-09 | 2.78E-08 | 4.83E-09 | 4.83E-09 | 2.69E-09 | 4.21E-08 |
| 1897 | 256417.47 | 4084568.84 | 1.9661E-09 | 2.63E-08 | 4.59E-09 | 4.59E-08 | 2.56E-09 | 4.00E-08 |
| 1898 | 256432.79 | 4084527.48 | 1.8458E-09 | 2.47E-09 | 4.31E-09 | 4.31E-09 | 2.40E-09 | 3.75E-08 |
| 1899 | 256448.11 | 4084486.11 | 1.7146E-09 | 2.29E-08 | 4.00E-09 | 4.00E-09 | 2.23E-09 | 3.48E-08 |
| 1900 | 256463.43 | 4084444.74 | 1.5907E-09 | 2.12E-08 | 3.71E-09 | 3.71E-09 | 2.07E-09 | 3.21E-08 |
| 1901 | 256478.74 | 4084403.37 | 1.485E-09 | 1.96E-08 | 3.46E-08 | 3.45E-09 | 1.93E-09 | 3.02E-08 |
| 1902 | 256494.06 | 4084362 | 1.403E-09 | 1.87E-08 | 3.27E-09 | 3.27E-09 | 1.82E-09 | 2.85E-08 |
| 1903 | 256509.38 | 4084320.64 | 1.3484E-09 | 1.80E-08 | 3.15E-09 | 3.15E-09 | 1.75E-09 | 2.74E-08 |
| 1904 | 256524.7 | 4084279.27 | 1.3156E-09 | 1.78E-08 | 3.07E-09 | 3.07E-09 | 1.72E-09 | 2.67E-08 |
| 1905 | 256540.02 | 4084237.9 | 1.2973E-09 | 1.73E-08 | 3.03E-08 | 3.03E-09 | 1.69E-09 | 2.64E-08 |
| 1906 | 256555.34 | 4084196.53 | 1.2864E-09 | 1.72E-08 | 3.00E-09 | 3.00E-09 | 2.67E-09 | 2.61E-08 |
| 1907 | 256570.86 | 4084155.17 | 1.2773E-09 | 1.71E-08 | 2.98E-09 | 2.98E-09 | 1.66E-09 | 2.60E-08 |
| 1908 | 256585.98 | 4084113.8 | 1.2682E-09 | 1.69E-08 | 2.96E-09 | 2.96E-09 | 1.65E-09 | 2.58E-08 |
| 1909 | 256621.32 | 4084063.18 | 1.2591E-09 | 1.68E-08 | 2.94E-09 | 2.94E-09 | 1.64E-09 | 2.56E-08 |
| 1910 | 256661.36 | 4084044.68 | 1.27E-09 | 1.70E-08 | 2.96E-09 | 2.96E-09 | 1.85E-09 | 2.56E-08 |
| 1911 | 256701.41 | 4084026.18 | 1.2773E-09 | 1.71E-08 | 2.98E-09 | 2.98E-09 | 1.66E-09 | 2.60E-08 |
| 1912 | 256741.46 | 4084007.68 | 1.2846E-09 | 1.72E-08 | 3.00E-09 | 3.00E-09 | 1.67E-09 | 2.61E-08 |
| 1913 | 256781.5 | 4083989.16 | 1.2919E-09 | 1.73E-08 | 3.01E-09 | 3.01E-09 | 1.68E-09 | 2.63E-08 |
| 1914 | 256821.55 | 4083970.68 | 1.2973E-09 | 1.73E-08 | 3.03E-09 | 3.03E-09 | 1.69E-09 | 2.64E-08 |
| 1915 | 256861.59 | 4083952.18 | 1.2992E-09 | 1.74E-08 | 3.03E-09 | 3.03E-09 | 1.69E-09 | 2.64E-08 |
| 1910 | 256901.64 | 4083933.68 | 1.2973E-09 | 1.73E-08 | 3.03E-09 | 3.03E-09 | 1.69E-09 | 2.64E-08 |
| 1917 | 256941.69 | 4083915.16 | 1.2901E-09 | 1.72E-08 | 3.01E-09 | 3.01E-09 | 1.68E-09 | 2.62E-08 |
| 1918 | 256981.73 | 4083896.67 | 1.2791E-09 | 1.71E-08 | 2.98E-09 | 2.98E-09 | 1.68E-09 | 2.60E-08 |
| 1919 | 257021.78 | 4083878.17 | 1.2664E-09 | 1.69E-08 | 2.95E-09 | 2.95E-09 | 1.65E-09 | 2.57E-09 |
| 1920 | 257061.82 | 4083859.67 | 1.2536E-09 | 1.67E-08 | 2.92E-09 | 2.92E-09 | 1.63E-09 | 2.55E-08 |
| 1921 | 257101.87 | 4083841.17 | 1.2427E-09 | 1.66E-08 | 2.90E-09 | 2.90E-09 | 1.62E-09 | 2.53E-08 |
| 1922 | 257141.92 | 4083822.67 | 1.2317E-09 | 1.65E-08 | 2.87E-09 | 2.87E-09 | 1.60E-09 | 2.50E-08 |
| 1923 | 257161.96 | 4083804.17 | 1.2208E-09 | 1.63E-08 | 2.85E-09 | 2.85E-09 | 1.59E-09 | 2.48E-08 |
| 1924 | 257322.01 | 4083785.67 | 1.2099E-09 | 1.62E-08 | 2.82E-09 | 2.61E-09 | 1.57E-09 | 2.46E-08 |
| 1925 | 257262.05 | 4083767.17 | 1.2008E-09 | 1.60E-08 | 2.80E-09 | 2.60E-09 | 1.56E-09 | 2.44E-08 |
| 1926 | 257302.1 | 4083748.67 | 1.1917E-09 | 1.59E-08 | 2.78E-09 | 2.78E-09 | 1.55E-09 | 2.42E-08 |
| 1927 | 257342.15 | 4083730.17 | 1.1826E-09 | 1.58E-08 | 2.76E-09 | 2.76E-09 | 1.54E-09 | 2.40E-08 |
| 1928 | 257382.19 | 4083711.67 | 1.1753E-09 | 1.57E-08 | 2.74E-09 | 2.74E-09 | 1.53E-09 | 2.39E-09 |
| 1929 | 257422.24 | 4083693.17 | 1.1698E-09 | 1.56E-08 | 2.72E-09 | 2.72E-09 | 1.52E-09 | 2.38E-08 |
| 1930 | 257462.28 | 4083674.67 | 1.1662E-09 | 1.56E-09 | 2.72E-09 | 2.72E-09 | 1.52E-09 | 2.37E-08 |
| 1931 | 256257.45 | 4085025.49 | 3.5932E-09 | 4.80E-08 | 8.38E-09 | 8.38E-09 | 4.67E-09 | 7.30E-08 |
| 1932 | 256259.1 | 4085070.05 | 3.7663E-09 | 5.03E-08 | 8.79E-09 | 8.79E-09 | 4.90E-09 | 7.65E-08 |
| 1933 | 256260.75 | 4085114.61 | 3.672E-09 | 5.17E-09 | 9.03E-09 | 9.03E-09 | 5.04E-08 | 7.87E-08 |
| 1934 | 256261.57 | 4085136.89 | 3.9066E-09 | 5.22E-08 | 9.11E-09 | 9.11E-09 | 5.08E-08 | 7.94E-08 |
| 1935 | 256263.23 | 4085161.45 | 3.9576E-08 | 5.29E-08 | 9.23E-09 | 9.23E-09 | 5.15E-09 | 8.04E-08 |
| 1936 | 256064.41 | 4084989.96 | 2.9664E-09 | 3.96E-08 | 6.92E-09 | 6.92E-09 | 3.86E-09 | 6.03E-08 |
| 1937 | 256079.7 | 4084948.65 | 2.8061E-09 | 3.75E-08 | 6.55E-09 | 6.55E-09 | 3.65E-09 | 5.70E-08 |
| 1938 | 256095 | 4084907.34 | 2.0311E-09 | 3.51E-08 | 6.14E-09 | 6.14E-09 | 3.42E-09 | 5.35E-08 |
| 1939 | 256110.3 | 4084866.04 | 2.4635E-09 | 2.29E-08 | 5.71E-09 | 5.75E-09 | 3.20E-09 | 5.01E-08 |
| 1940 | 256125.59 | 4084824.73 | 2.3141E-09 | 3.09E-08 | 5.40E-09 | 5.40E-09 | 3.01E-08 | 4.70E-08 |
| 1941 | 256140.89 | 4084783.42 | 2.1902E-09 | 2.93E-08 | 5.13E-09 | 5.11E-09 | 2.85E-09 | 4.45E-08 |
| 1942 | 256156.19 | 4084742.12 | 2.0916E-09 | 2.78E-08 | 4.88E-09 | 4.88E-09 | 2.72E-09 | 4.25E-08 |
| 1943 | 256171.48 | 4084700.81 | 2.0134E-09 | 2.69E-09 | 4.70E-09 | 4.70E-09 | 2.62E-09 | 4.09E-08 |
| 1944 | 256186.78 | 4084659.5 | 1.9478E-09 | 2.60E-08 | 4.54E-09 | 4.34E-09 | 2.53E-09 | 3.96E-08 |
| 1945 | 256202.07 | 4084616.2 | 1.6677E-09 | 2.52E-09 | 4.40E-09 | 4.40E-09 | 2.48E-09 | 3.84E-08 |
| 1946 | 256217.37 | 4084576.89 | 1.6239E-09 | 2.44E-09 | 4.26E-09 | 4.26E-09 | 2.37E-09 | 3.71E-08 |
| 1947 | 256232.66 | 4084535.58 | 1.7511E-08 | 2.84E-08 | 4.09E-09 | 4.09E-09 | 2.28E-09 | 3.56E-08 |
| 1948 | 256347.96 | 4084494.28 | 1.6618E-09 | 2.22E-08 | 2.88E-09 | 3.88E-09 | 2.16E-09 | 3.38E-08 |
| 1949 | 256263.26 | 4084452.97 | 1.5561E-09 | 2.08E-08 | 3.63E-09 | 3.63E-09 | 2.02E-09 | 3.18E-08 |
| 1950 | 256278.55 | 4084411.66 | 1.4504E-09 | 1.94E-08 | 2.38E-09 | 3.38E-09 | 1.88E-09 | 2.95E-08 |
| 1951 | 256293.85 | 4084370.36 | 1.3447E-09 | 1.80E-08 | 3.14E-09 | 3.14E-09 | 1.75E-09 | 2.71E-08 |
| 1952 | 256309.15 | 4084229.05 | 1.2536E-09 | 1.67E-08 | 2.92E-08 | 2.92E-09 | 1.62E-09 | 2.55E-08 |
| 1953 | 256524.44 | 4084287.74 | 1.1826E-09 | 1.58E-08 | 2.78E-09 | 2.78E-09 | 1.54E-09 | 2.40E-08 |
| 1954 | 256339.74 | 4084246.44 | 1.1134E-09 | 1.51E-08 | 2.64E-08 | 2.64E-09 | 1.47E-09 | 2.30E-08 |
| 1955 | 256355.01 | 4084205.13 | 1.1042E-09 | 1.47E-08 | 2.56E-09 | 2.55E-09 | 1.44E-09 | 2.24E-08 |
| 1956 | 256370.33 | 4084163.83 | 1.0933E-09 | 1.44E-08 | 2.55E-09 | 2.55E-09 | 1.43E-09 | 2.22E-08 |
| 1957 | 256385.62 | 4084122.52 | 1.0933E-09 | 1.46E-08 | 2.55E-09 | 2.56E-09 | 1.42E-09 | 2.22E-08 |
| 1956 | 256400.92 | 4084081.21 | 1.0957E-09 | 1.47E-08 | 2.66E-09 | 2.56E-09 | 1.43E-09 | 2.23E-08 |
| 1959 | 256416.22 | 4084039.91 | 1.1024E-09 | 1.47E-08 | 2.57E-09 | 2.57E-08 | 1.43E-09 | 2.24E-08 |
| 1960 | 256431.51 | 4083958.6 | 1.1042E-09 | 1.47E-08 | 2.58E-09 | 2.58E-09 | 1.44E-09 | 2.24E-08 |
| 1961 | 256446.81 | 4083957.29 | 1.0969E-09 | 1.47E-08 | 2.56E-09 | 2.56E-09 | 1.43E-09 | 2.23E-08 |
| 1962 | 256474.45 | 4083927.4 | 1.0951E-09 | 1.46E-08 | 2.55E-09 | 2.55E-09 | 1.42E-09 | 2.23E-08 |
| 1963 | 256514.44 | 4083908.93 | 1.0887E-09 | 1.47E-08 | 2.56E-09 | 2.56E-09 | 1.43E-09 | 2.23E-08 |
| 1964 | 256554.43 | 4083890.46 | 1.0987E-09 | 1.47E-08 | 2.56E-09 | 2.56E-09 | 1.43E-09 | 2.23E-08 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 8.90E-10 | 1.19E-08 | 2.14E-09 | 2.14E-09 | 1.17E-09 | 1.83E-08 |
| 9.18E-10 | 1.23E-08 | 2.20E-09 | 2.20E-09 | 1.21E-09 | 1.89E-08 |
| 9.30E-10 | 1.25E-08 | 2.23E-09 | 2.23E-09 | 1.23E-09 | 1.91E-08 |
| 6.01E-10 | 8.06E-09 | 1.44E-09 | 1.44E-09 | 7.91E-10 | 1.23E-08 |
| 5.57E-10 | 7.47E-09 | 1.34E-09 | 1.34E-09 | 7.35E-10 | 1.14E-08 |
| 5.14E-10 | 6.90E-09 | 1.23E-09 | 1.22E-09 | 6.79E-10 | 1.06E-08 |
| 4.77E-10 | 6.39E-08 | 1.14E-09 | 1.14E-09 | 6.29E-10 | 9.79E-09 |
| 4.47E-10 | 5.99E-09 | 1.07E-09 | 1.07E-09 | 5.09E-10 | 9.17E-09 |
| 4.23E-10 | 5.67E-08 | 1.01E-09 | 1.01E-09 | 5.58E-10 | 8.68E-09 |
| 4.03E-10 | 5.40E-09 | 9.67E-10 | 9.67E-10 | 5.32E-10 | 6.27E-09 |
| 3.84E-10 | 5.15E-09 | 9.22E-10 | 9.22E-10 | 5.07E-10 | 7.89E-09 |
| 3.64E-10 | 4.88E-09 | 8.73E-10 | 8.72E-10 | 4.80E-10 | 7.47E-09 |
| 3.41E-10 | 4.57E-09 | 8.18E-10 | 8.18E-10 | 4.50E-10 | 7.00E-09 |
| 3.17E-10 | 4.25E-09 | 7.61E-10 | 7.61E-10 | 4.19E-10 | 0.51E-09 |
| 2.95E-10 | 3.95E-09 | 7.07E-10 | 7.07E-10 | 3.89E-10 | 6.05E-09 |
| 2.75E-10 | 3.69E-09 | 6.60E-10 | 6.60E-10 | 3.63E-10 | 5.65E-09 |
| 2.61E-10 | 3.50E-09 | 6.26E-10 | 6.26E-10 | 3.44E-10 | 5.35E-09 |
| 2.51E-10 | 3.38E-09 | 6.01E-10 | 6.01E-10 | 3.31E-10 | 5.14E-09 |
| 2.43E-10 | 3.26E-09 | 5.84E-10 | 5.84E-10 | 3.21E-10 | 5.00E-09 |
| 2.38E-10 | 3.19E-09 | 5.71E-10 | 5.73E-10 | 3.14E-10 | 4.88E-09 |
| 2.33E-10 | 3.12E-09 | 5.59E-10 | 5.59E-10 | 3.07E-10 | 4.78E-09 |
| 2.26E-10 | 3.05E-09 | 5.47E-10 | 5.47E-10 | 3.01E-10 | 4.68E-09 |
| 2.27E-10 | 2.84E-09 | 5.45E-10 | 5.45E-10 | 3.00E-10 | 4.66E-09 |
| 2.30E-10 | 3.08E-09 | 5.51E-10 | 5.51E-10 | 3.03E-10 | 4.72E-09 |
| 2.33E-10 | 3.12E-09 | 5.58E-10 | 5.58E-10 | 3.07E-10 | 4.77E-09 |
| 2.36E-10 | 3.16E-09 | 5.66E-10 | 5.64E-10 | 3.11E-10 | 4.84E-09 |
| 2.39E-10 | 3.20E-09 | 5.75E-10 | 5.73E-10 | 3.15E-10 | 4.90E-09 |
| 2.41E-10 | 3.23E-09 | 5.79E-10 | 5.79E-10 | 3.16E-10 | 4.95E-09 |
| 2.41E-10 | 3.24E-09 | 5.81E-10 | 5.81E-10 | 3.19E-10 | 4.97E-09 |
| 2.41E-10 | 3.23E-09 | 5.79E-10 | 5.79E-10 | 3.18E-10 | 4.95E-09 |
| 2.39E-10 | 3.20E-09 | 5.73E-10 | 5.73E-10 | 3.15E-10 | 4.90E-09 |
| 2.38E-10 | 3.18E-09 | 5.66E-10 | 5.66E-10 | 3.11E-10 | 4.84E-09 |
| 2.32E-10 | 3.11E-09 | 5.57E-10 | 5.57E-10 | 3.06E-10 | 4.76E-09 |
| 2.28E-10 | 3.06E-09 | 5.46E-10 | 5.48E-10 | 3.01E-10 | 4.69E-09 |
| 2.25E-10 | 3.02E-09 | 5.41E-10 | 5.41E-10 | 2.97E-10 | 4.63E-09 |
| 2.23E-10 | 3.00E-09 | 5.36E-10 | 5.36E-10 | 2.95E-10 | 4.55E-09 |
| 2.22E-10 | 2.98E-09 | 5.34E-10 | 5.34E-10 | 2.93E-10 | 4.56E-09 |
| 2.22E-10 | 2.98E-09 | 5.34E-10 | 5.34E-10 | 2.93E-10 | 4.56E-09 |
| 2.23E-10 | 2.99E-09 | 5.35E-10 | 5.35E-10 | 2.94E-10 | 4.58E-09 |
| 2.24E-10 | 3.00E-09 | 5.38E-10 | 5.38E-10 | 2.96E-10 | 4.60E-09 |
| 6.44E-10 | 8.64E-09 | 1.51E-09 | 1.55E-09 | 6.50E-10 | 1.32E-08 |
| 6.83E-10 | 9.15E-09 | 1.84E-09 | 1.64E-09 | 9.01E-10 | 1.40E-08 |
| 7.05E-10 | 9.49E-09 | 1.70E-09 | 1.70E-09 | 9.34E-10 | 1.45E-08 |
| 7.24E-10 | 9.70E-09 | 1.74E-09 | 1.74E-09 | 9.55E-10 | 1.49E-08 |
| 7.37E-10 | 9.88E-09 | 1.77E-09 | 1.77E-09 | 9.72E-10 | 1.51E-08 |
| 5.14E-10 | 6.90E-09 | 1.23E-09 | 1.23E-09 | 6.78E-10 | 1.06E-08 |
| 4.81E-10 | 6.46E-08 | 1.16E-09 | 1.16E-09 | 6.35E-10 | 9.88E-09 |
| 4.48E-10 | 6.01E-09 | 1.08E-09 | 1.08E-09 | 5.91E-10 | 9.20E-08 |
| 4.17E-10 | 5.60E-09 | 1.00E-09 | 1.00E-09 | 5.51E-10 | 8.57E-09 |
| 3.91E-10 | 5.25E-09 | 9.39E-10 | 9.39E-10 | 5.16E-10 | 8.03E-08 |
| 3.72E-10 | 4.97E-08 | 8.89E-10 | 8.89E-10 | 4.89E-10 | 7.61E-09 |
| 3.54E-10 | 4.75E-09 | 8.50E-10 | 8.50E-10 | 4.67E-10 | 7.27E-09 |
| 3.41E-10 | 4.57E-09 | 8.18E-10 | 8.18E-10 | 4.50E-10 | 6.99E-09 |
| 3.25E-10 | 4.40E-09 | 7.87E-10 | 7.87E-10 | 4.33E-10 | 6.73E-09 |
| 3.14E-10 | 4.21E-09 | 7.54E-10 | 7.54E-10 | 4.15E-10 | 6.45E-09 |
| 2.98E-10 | 4.00E-09 | 7.16E-10 | 7.16E-10 | 3.94E-10 | 6.13E-09 |
| 2.80E-10 | 3.78E-09 | 6.72E-10 | 6.73E-10 | 3.70E-10 | 5.75E-09 |
| 2.60E-10 | 3.49E-09 | 6.25E-10 | 6.25E-10 | 3.42E-10 | 5.84E-09 |
| 2.41E-10 | 3.24E-09 | 5.79E-10 | 5.79E-10 | 3.19E-10 | 4.96E-09 |
| 2.25E-10 | 3.02E-09 | 5.41E-10 | 5.41E-10 | 2.97E-10 | 4.63E-09 |
| 2.13E-10 | 2.66E-09 | 5.11E-10 | 5.11E-10 | 2.81E-10 | 4.37E-09 |
| 2.05E-10 | 2.74E-09 | 4.91E-10 | 4.91E-10 | 2.70E-10 | 4.20E-09 |
| 2.00E-10 | 2.68E-09 | 4.79E-10 | 4.79E-10 | 2.63E-10 | 4.10E-09 |
| 1.97E-10 | 2.64E-09 | 4.73E-10 | 4.73E-10 | 2.60E-10 | 4.04E-09 |
| 1.95E-10 | 2.82E-09 | 4.69E-10 | 4.69E-10 | 2.58E-10 | 4.01E-09 |
| 1.94E-10 | 2.60E-09 | 4.65E-10 | 4.65E-10 | 2.56E-10 | 3.98E-09 |
| 1.92E-10 | 2.58E-09 | 4.63E-10 | 4.62E-10 | 2.34E-10 | 3.95E-09 |
| 1.91E-10 | 2.56E-09 | 4.59E-10 | 4.59E-10 | 2.52E-10 | 3.91E-09 |
| 1.93E-10 | 2.58E-09 | 4.63E-10 | 4.63E-10 | 2.54E-10 | 3.96E-09 |
| 1.84E-10 | 2.60E-09 | 4.65E-10 | 4.65E-10 | 2.58E-10 | 3.58E-09 |
| 1.95E-10 | 2.61E-09 | 4.68E-10 | 4.68E-10 | 2.57E-10 | 4.00E-09 |
| 1.96E-10 | 2.63E-09 | 4.71E-10 | 4.71E-10 | 2.59E-10 | 4.03E-09 |
| 1.97E-10 | 2.64E-09 | 4.73E-10 | 4.73E-10 | 2.60E-10 | 4.04E-09 |
| 1.97E-10 | 2.64E-09 | 4.73E-10 | 4.73E-10 | 2.60E-10 | 4.05E-09 |
| 1.97E-10 | 2.64E-09 | 4.73E-10 | 4.73E-10 | 2.60E-10 | 4.84E-09 |
| 1.96E-10 | 2.63E-09 | 4.70E-10 | 4.70E-10 | 2.58E-10 | 4.01E-09 |
| 1.94E-10 | 2.60E-09 | 4.66E-10 | 4.68E-10 | 2.38E-10 | 3.99E-09 |
| 1.92E-10 | 2.58E-09 | 4.61E-10 | 4.01E-10 | 2.54E-10 | 3.95E-09 |
| 1.90E-10 | 2.55E-09 | 4.57E-10 | 4.57E-10 | 2.51E-10 | 3.91E-09 |
| 1.89E-10 | 2.53E-09 | 4.53E-10 | 4.51E-10 | 2.49E-10 | 3.87E-09 |
| 1.67E-10 | 2.51E-09 | 4.49E-10 | 4.49E-10 | 2.47E-10 | 3.84E-09 |
| 1.85E-10 | 2.48E-09 | 4.45E-10 | 4.45E-10 | 2.44E-10 | 3.80E-09 |
| 1.84E-10 | 2.46E-09 | 4.41E-10 | 4.41E-10 | 2.42E-10 | 3.77E-09 |
| 1.82E-10 | 2.44E-09 | 4.37E-10 | 4.37E-10 | 2.40E-10 | 3.74E-09 |
| 1.81E-10 | 2.43E-09 | 4.34E-10 | 4.34E-10 | 2.39E-10 | 3.71E-09 |
| 1.78E-10 | 2.41E-09 | 4.31E-10 | 4.31E-10 | 2.37E-10 | 3.68E-09 |
| 1.78E-10 | 2.39E-09 | 4.28E-10 | 4.28E-10 | 2.35E-10 | 3.66E-09 |
| 1.78E-10 | 2.38E-09 | 4.26E-10 | 4.26E-10 | 2.34E-10 | 3.64E-09 |
| 1.77E-10 | 2.37E-09 | 4.25E-10 | 4.25E-10 | 2.34E-10 | 3.63E-09 |
| 5.45E-10 | 7.31E-09 | 1.31E-09 | 1.31E-09 | 7.20E-10 | 1.12E-08 |
| 5.72E-10 | 7.66E-09 | 1.37E-09 | 1.37E-09 | 7.54E-10 | 1.17E-08 |
| 5.88E-10 | 7.66E-09 | 1.41E-09 | 1.41E-08 | 7.75E-10 | 1.21E-08 |
| 5.93E-10 | 7.95E-09 | 1.42E-09 | 1.42E-09 | 7.82E-10 | 1.22E-08 |
| 6.01E-10 | 6.05E-09 | 1.44E-09 | 1.44E-09 | 7.93E-10 | 1.23E-08 |
| 4.50E-10 | 6.04E-09 | 1.08E-09 | 1.08E-09 | 5.94E-10 | 9.24E-09 |
| 4.26E-10 | 5.71E-09 | 1.02E-09 | 1.02E-09 | 5.62E-10 | 8.74E-09 |
| 3.99E-10 | 5.35E-09 | 9.58E-10 | 9.36E-10 | 5.27E-10 | 8.20E-09 |
| 3.74E-10 | 5.01E-09 | 8.97E-10 | 8.97E-10 | 4.93E-10 | 7.68E-09 |
| 3.51E-10 | 4.71E-09 | 8.42E-10 | 8.43E-10 | 4.63E-10 | 7.21E-09 |
| 3.32E-10 | 4.46E-09 | 7.98E-10 | 7.98E-10 | 4.39E-10 | 6.82E-09 |
| 3.17E-10 | 4.26E-08 | 7.62E-10 | 7.62E-10 | 4.19E-10 | 6.52E-09 |
| 3.05E-10 | 4.10E-09 | 7.33E-10 | 7.33E-10 | 4.03E-10 | 6.27E-09 |
| 2.96E-10 | 3.96E-09 | 7.10E-10 | 7.10E-10 | 3.90E-10 | 6.07E-09 |
| 2.88E-10 | 3.84E-09 | 6.88E-10 | 6.88E-10 | 3.78E-10 | 5.88E-09 |
| 2.77E-10 | 3.71E-08 | 6.64E-10 | 6.64E-10 | 3.65E-10 | 5.68E-08 |
| 2.66E-10 | 3.56E-09 | 6.38E-10 | 6.38E-10 | 3.51E-10 | 5.46E-09 |
| 2.52E-10 | 3.38E-08 | 6.05E-10 | 6.05E-10 | 3.35E-10 | 5.18E-09 |
| 2.36E-10 | 3.17E-09 | 5.67E-10 | 5.67E-10 | 3.12E-10 | 4.85E-09 |
| 2.20E-10 | 2.95E-09 | 5.28E-10 | 5.28E-10 | 2.90E-10 | 4.52E-08 |
| 2.04E-10 | 2.74E-09 | 4.90E-10 | 4.90E-10 | 2.69E-10 | 4.19E-09 |
| 1.90E-10 | 2.55E-09 | 4.57E-10 | 4.57E-10 | 2.51E-10 | 3.91E-09 |
| 1.79E-10 | 2.41E-09 | 4.31E-10 | 4.31E-10 | 2.37E-10 | 3.68E-09 |
| 1.72E-10 | 2.31E-09 | 4.13E-10 | 4.13E-10 | 2.27E-10 | 3.53E-09 |
| 1.68E-10 | 2.25E-09 | 4.02E-10 | 4.02E-10 | 2.21E-10 | 3.44E-09 |
| 1.66E-10 | 2.22E-09 | 3.98E-10 | 3.98E-10 | 2.19E-10 | 3.41E-09 |
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1719 | 257193.86 | 4084887.6 | 8.0282E-09 | 1.07E-07 | 1.87E-08 | 1.87E-09 | 1.04E-08 | 1.83E-07 | 1.22E-09 | 1.63E-09 | 2.92E-09 | 2.92E-09 | 1.61E-09 | 2.50E-08 | 6.62E-10 | 8.84E-09 | 1.30E-09 | 1.30E-09 | 6.44E-10 | 1.27E-09 |
| 1720 | 257209.03 | 4084826.68 | 7.2119E-09 | 9.63E-08 | 1.68E-08 | 1.68E-09 | 9.38E-09 | 1.47E-07 | 1.09E-09 | 1.47E-09 | 2.61E-09 | 2.83E-08 | 1.44E-09 | 2.25E-08 | 5.94E-10 | 7.94E-09 | 1.17E-09 | 1.17E-09 | 5.79E-10 | 1.15E-09 |
| 1721 | 257224.18 | 4084785.72 | 6.545E-09 | 8.74E-08 | 1.53E-08 | 1.53E-09 | 8.51E-08 | 1.33E-07 | 9.93E-10 | 1.33E-08 | 2.38E-09 | 2.38E-08 | 1.31E-09 | 2.04E-08 | 5.39E-10 | 7.21E-09 | 1.06E-08 | 1.06E-09 | 5.25E-10 | 1.04E-08 |
| 1722 | 257239.33 | 4084744.86 | 5.9802E-09 | 7.99E-08 | 1.40E-08 | 1.40E-08 | 7.78E-09 | 1.22E-07 | 9.08E-10 | 1.22E-08 | 2.18E-09 | 2.18E-09 | 1.20E-09 | 1.88E-08 | 4.93E-10 | 6.58E-09 | 9.89E-10 | 9.69E-10 | 4.80E-10 | 9.50E-09 |
| 1723 | 257254.48 | 4084703.95 | 5.4663E-09 | 7.30E-08 | 1.28E-08 | 1.28E-08 | 7.11E-09 | 1.11E-07 | 8.30E-10 | 1.11E-08 | 1.99E-09 | 1.99E-09 | 1.09E-09 | 1.70E-08 | 4.51E-10 | 6.02E-09 | 8.66E-10 | 8.86E-10 | 4.29E-10 | 8.68E-09 |
| 1724 | 257281.86 | 4084874.34 | 5.3568E-09 | 7.02E-08 | 1.23E-08 | 1.23E-08 | 6.84E-09 | 1.07E-07 | 7.98E-10 | 1.07E-08 | 1.91E-09 | 1.91E-09 | 1.05E-09 | 1.64E-08 | 4.33E-10 | 5.79E-09 | 8.52E-10 | 8.52E-10 | 4.22E-10 | 8.25E-09 |
| 1725 | 257321.47 | 4084858.04 | 5.3279E-09 | 7.12E-08 | 1.24E-08 | 1.24E-08 | 6.93E-09 | 1.08E-07 | 8.09E-10 | 1.08E-09 | 1.94E-09 | 1.94E-09 | 1.07E-09 | 1.66E-08 | 4.39E-10 | 5.87E-09 | 8.64E-10 | 8.64E-10 | 4.27E-10 | 8.46E-09 |
| 1726 | 257361.07 | 4084637.75 | 5.3989E-09 | 7.21E-08 | 1.26E-08 | 1.26E-08 | 7.02E-09 | 1.10E-07 | 8.19E-10 | 1.10E-09 | 1.97E-09 | 1.97E-09 | 1.06E-09 | 1.88E-08 | 4.43E-10 | 5.94E-09 | 8.75E-10 | 8.75E-10 | 4.33E-10 | 8.57E-09 |
| 1727 | 257400.68 | 4084819.45 | 5.4663E-09 | 7.30E-08 | 1.28E-08 | 1.26E-09 | 7.11E-09 | 1.11E-07 | 8.30E-10 | 1.11E-09 | 1.99E-09 | 1.99E-09 | 1.09E-09 | 1.70E-08 | 4.51E-10 | 8.02E-09 | 8.86E-10 | 8.86E-10 | 4.39E-10 | 8.68E-09 |
| 1728 | 257440.28 | 4084601.15 | 5.5392E-09 | 7.40E-08 | 1.29E-08 | 1.29E-08 | 7.20E-09 | 1.13E-07 | 8.41E-10 | 1.13E-08 | 2.02E-09 | 2.02E-09 | 1.13E-09 | 1.73E-08 | 4.57E-10 | 8.10E-09 | 8.98E-10 | 8.98E-10 | 4.44E-10 | 8.80E-09 |
| 1729 | 257479.89 | 4084582.85 | 5.8413E-09 | 7.54E-08 | 1.32E-08 | 1.32E-09 | 7.34E-09 | 1.15E-07 | 8.56E-10 | 1.15E-09 | 2.06E-09 | 2.05E-09 | 1.15E-09 | 1.76E-08 | 4.85E-10 | 8.21E-09 | 9.14E-10 | 9.14E-10 | 4.51E-10 | 8.96E-09 |
| 1730 | 257156.83 | 4084992.16 | 1.1971E-08 | 1.60E-07 | 2.79E-08 | 2.79E-08 | 1.56E-08 | 2.43E-07 | 1.82E-09 | 2.44E-09 | 4.36E-09 | 4.36E-09 | 2.40E-09 | 3.73E-08 | 9.67E-10 | 1.32E-08 | 1.94E-09 | 1.94E-09 | 9.60E-10 | 1.90E-08 |
| 1721 | 257156.48 | 4085038.72 | 1.3912E-08 | 1.86E-07 | 3.25E-08 | 3.25E-09 | 1.81E-08 | 2.83E-07 | 2.11E-08 | 2.83E-08 | 5.07E-09 | 5.07E-09 | 2.79E-09 | 4.33E-08 | 1.13E-09 | 1.53E-08 | 2.25E-09 | 2.25E-09 | 1.12E-09 | 2.21E-08 |
| 1712 | 257160.13 | 4085081.29 | 1.5739E-08 | 2.10E-07 | 3.87E-09 | 3.67E-09 | 2.05E-08 | 3.20E-07 | 2.39E-09 | 3.20E-08 | 5.73E-08 | 5.73E-09 | 3.15E-09 | 4.90E-08 | 1.30E-09 | 1.73E-08 | 2.55E-09 | 2.53E-09 | 1.26E-09 | 2.50E-08 |
| 1733 | 257161.78 | 4085125.85 | 1.7494E-08 | 2.34E-07 | 4.08E-08 | 4.08E-09 | 2.28E-08 | 3.56E-07 | 2.66E-09 | 3.56E-08 | 6.37E-09 | 6.37E-09 | 3.50E-09 | 5.45E-08 | 1.44E-09 | 1.93E-08 | 2.84E-09 | 2.64E-09 | 1.40E-09 | 2.76E-08 |
| 1734 | 257162.61 | 4085148.13 | 1.8425E-08 | 2.46E-07 | 4.30E-08 | 4.30E-08 | 2.40E-08 | 3.74E-07 | 2.80E-09 | 3.75E-08 | 6.71E-09 | 6.71E-09 | 3.69E-09 | 5.74E-08 | 1.52E-09 | 2.01E-08 | 2.99E-09 | 2.99E-09 | 1.48E-09 | 2.91E-08 |
| 1735 | 257063.44 | 4084953.89 | 8.3817E-09 | 1.12E-07 | 1.96E-08 | 1.96E-09 | 1.09E-08 | 1.70E-07 | 1.27E-09 | 1.71E-08 | 3.05E-09 | 3.05E-09 | 1.68E-09 | 2.61E-08 | 6.91E-10 | 9.21E-09 | 1.36E-09 | 1.36E-09 | 6.73E-10 | 1.35E-08 |
| 1736 | 257078.17 | 4084913.92 | 7.4915E-09 | 1.00E-07 | 1.75E-08 | 1.75E-08 | 9.75E-09 | 1.52E-07 | 1.14E-09 | 1.52E-08 | 2.73E-09 | 2.73E-09 | 1.50E-09 | 2.23E-08 | 8.12E-10 | 8.25E-09 | 1.21E-09 | 1.21E-09 | 6.01E-10 | 1.19E-08 |
| 1737 | 257092.9 | 4084874.14 | 6.7181E-09 | 8.97E-08 | 1.57E-08 | 1.57E-08 | 8.74E-09 | 1.37E-07 | 1.02E-09 | 1.37E-08 | 2.41E-09 | 2.41E-09 | 1.25E-09 | 2.09E-08 | 5.54E-10 | 7.40E-09 | 1.09E-09 | 1.09E-09 | 5.29E-10 | 1.07E-08 |
| 1738 | 257107.63 | 4084834.36 | 6.0768E-09 | 8.12E-08 | 1.42E-08 | 1.42E-08 | 7.90E-09 | 1.24E-07 | 9.22E-10 | 1.24E-08 | 2.21E-09 | 2.21E-09 | 1.22E-08 | 1.89E-08 | 5.01E-10 | 6.69E-09 | 9.85E-10 | 9.85E-10 | 4.87E-10 | 9.65E-09 |
| 1739 | 257122.36 | 4084794.59 | 5.5538E-09 | 7.42E-08 | 1.30E-08 | 1.50E-08 | 7.22E-09 | 1.13E-07 | 8.43E-10 | 1.13E-09 | 2.02E-09 | 2.01E-09 | 1.11E-09 | 1.73E-08 | 4.58E-10 | 6.12E-09 | 9.00E-10 | 9.00E-10 | 4.46E-10 | 8.82E-09 |
| 1740 | 257137.09 | 4084754.81 | 5.1129E-09 | 6.83E-08 | 1.19E-08 | 1.19E-09 | 8.65E-09 | 1.04E-07 | 7.76E-10 | 1.04E-08 | 1.86E-09 | 1.86E-09 | 1.02E-09 | 1.59E-08 | 4.21E-10 | 5.63E-09 | 8.29E-10 | 8.29E-10 | 4.10E-10 | 8.12E-09 |
| 1741 | 257151.82 | 4084715.03 | 4.7375E-09 | 6.21E-08 | 1.11E-08 | 1.31E-08 | 6.16E-09 | 9.63E-08 | 7.19E-10 | 9.64E-09 | 1.73E-09 | 1.73E-09 | 9.49E-10 | 1.48E-08 | 3.91E-10 | 5.22E-09 | 7.68E-10 | 7.68E-10 | 3.80E-10 | 7.52E-09 |
| 1742 | 257166.55 | 4084675.26 | 4.4004E-09 | 5.88E-08 | 1.02E-08 | 1.03E-08 | 5.72E-09 | 8.84E-08 | 6.68E-10 | 8.95E-09 | 1.60E-09 | 1.60E-08 | 8.81E-10 | 1.37E-08 | 3.63E-10 | 4.85E-09 | 7.13E-10 | 7.13E-10 | 3.35E-10 | 6.99E-09 |
| 1743 | 257181.27 | 4084635.48 | 4.0797E-09 | 5.45E-08 | 9.52E-09 | 9.52E-09 | 5.31E-09 | 8.29E-08 | 8.19E-10 | 8.30E-09 | 1.49E-09 | 1.49E-09 | 8.17E-10 | 1.27E-08 | 3.36E-10 | 4.49E-09 | 6.61E-10 | 6.61E-10 | 3.27E-10 | 8.48E-09 |
| 1744 | 257207.89 | 4084606.7 | 3.9449E-09 | 5.27E-08 | 9.20E-09 | 9.20E-09 | 5.13E-09 | 8.02E-08 | 5.99E-10 | 8.03E-08 | 1.44E-09 | 1.44E-09 | 7.90E-10 | 1.25E-08 | 3.25E-10 | 4.34E-09 | 6.39E-10 | 8.39E-10 | 3.16E-10 | 6.28E-09 |
| 1745 | 257246.4 | 4084568.91 | 3.985E-09 | 5.32E-08 | 9.30E-09 | 9.50E-09 | 5.18E-09 | 8.10E-08 | 8.05E-10 | 8.11E-09 | 1.43E-09 | 1.45E-09 | 7.98E-10 | 1.24E-08 | 3.28E-10 | 4.39E-09 | 6.46E-10 | 6.46E-10 | 3.20E-10 | 8.33E-09 |
| 1748 | 257284.9 | 4084571.12 | 4.036E-09 | 5.39E-09 | 9.42E-09 | 9.42E-09 | 5.25E-09 | 8.20E-08 | 6.13E-10 | 8.21E-09 | 1.47E-09 | 1.47E-09 | 8.08E-10 | 1.26E-08 | 3.23E-10 | 4.44E-09 | 8.54E-10 | 6.64E-10 | 3.24E-10 | 6.41E-09 |
| 1747 | 257323.41 | 4084553.33 | 4.0925E-09 | 5.47E-08 | 9.55E-09 | 9.55E-09 | 5.32E-09 | 8.32E-08 | 6.21E-10 | 8.31E-09 | 1.49E-09 | 1.49E-09 | 8.20E-10 | 1.28E-08 | 3.37E-10 | 4.51E-09 | 6.63E-10 | 6.63E-10 | 3.28E-10 | 8.50E-09 |
| 1748 | 257361.92 | 4084535.54 | 4.1435E-08 | 5.53E-08 | 9.67E-08 | 9.67E-09 | 5.29E-09 | 8.42E-08 | 6.29E-10 | 8.41E-09 | 1.51E-09 | 1.51E-09 | 8.30E-10 | 1.29E-08 | 3.42E-10 | 4.58E-08 | 6.77E-10 | 6.72E-10 | 3.22E-10 | 8.58E-09 |
| 1749 | 257400.42 | 4084517.75 | 4.189E-09 | 5.60E-08 | 9.77E-09 | 9.77E-09 | 5.45E-09 | 8.51E-08 | 6.36E-10 | 8.52E-09 | 1.53E-09 | 1.53E-09 | 8.39E-10 | 1.31E-08 | 3.45E-10 | 4.61E-09 | 8.79E-10 | 8.79E-10 | 3.36E-10 | 8.65E-09 |
| 1750 | 257418.93 | 4084499.96 | 4.2364E-09 | 5.66E-08 | 9.68E-09 | 9.88E-09 | 5.51E-09 | 8.61E-08 | 6.43E-10 | 8.82E-09 | 1.54E-09 | 1.54E-09 | 8.48E-10 | 1.32E-08 | 3.49E-10 | 4.66E-09 | 6.87E-10 | 6.87E-10 | 3.40E-10 | 8.73E-09 |
| 1751 | 257472.43 | 4084482.18 | 4.2929E-09 | 5.71E-08 | 1.00E-08 | 1.00E-08 | 5.58E-09 | 8.71E-08 | 6.52E-10 | 8.74E-09 | 1.56E-09 | 1.56E-09 | 8.60E-10 | 1.34E-08 | 3.54E-10 | 4.73E-09 | 6.96E-10 | 8.96E-10 | 3.44E-10 | 8.82E-09 |
| 1752 | 257056.9 | 4084995.86 | 9.5005E-09 | 1.27E-07 | 2.22E-08 | 2.22E-09 | 1.24E-08 | 1.93E-07 | 1.44E-08 | 1.93E-08 | 3.46E-09 | 3.46E-09 | 1.90E-09 | 2.96E-08 | 7.83E-10 | 1.05E-08 | 1.64E-09 | 1.54E-09 | 7.62E-10 | 1.51E-08 |
| 1753 | 257057.72 | 4085018.15 | 1.0153E-08 | 1.36E-07 | 2.37E-08 | 2.37E-09 | 1.32E-08 | 2.06E-07 | 1.54E-09 | 2.07E-08 | 3.70E-09 | 3.70E-09 | 2.03E-09 | 3.16E-08 | 8.37E-10 | 1.12E-08 | 1.65E-09 | 1.65E-09 | 8.15E-10 | 1.61E-08 |
| 1754 | 257059.38 | 4085062.71 | 1.1346E-08 | 1.52E-07 | 2.65E-08 | 2.65E-08 | 1.46E-08 | 2.21E-07 | 1.72E-09 | 2.31E-08 | 4.13E-09 | 4.13E-09 | 2.27E-09 | 3.53E-08 | 9.35E-10 | 1.25E-08 | 1.84E-09 | 1.84E-09 | 9.10E-10 | 1.80E-08 |
| 1755 | 257061.03 | 4085107.27 | 1.2361E-08 | 1.65E-07 | 2.88E-08 | 2.88E-08 | 1.61E-08 | 2.51E-07 | 1.88E-09 | 2.52E-08 | 4.50E-09 | 4.50E-09 | 2.48E-09 | 3.85E-08 | 1.02E-09 | 1.36E-08 | 2.00E-09 | 2.00E-09 | 9.92E-10 | 1.96E-08 |
| 1756 | 257062.68 | 4085151.83 | 1.2278E-08 | 1.77E-07 | 3.10E-08 | 3.10E-08 | 1.73E-08 | 2.70E-07 | 2.02E-09 | 2.70E-08 | 4.84E-09 | 4.84E-09 | 2.66E-09 | 4.14E-08 | 1.09E-09 | 1.46E-08 | 2.15E-09 | 2.15E-09 | 1.07E-09 | 2.11E-08 |
| 1757 | 256963.72 | 4084958.83 | 7.0797E-09 | 9.39E-08 | 1.64E-08 | 1.64E-08 | 9.14E-09 | 1.43E-07 | 1.07E-09 | 1.43E-08 | 2.56E-09 | 2.56E-09 | 1.41E-09 | 2.19E-08 | 5.79E-10 | 7.74E-09 | 1.14E-09 | 1.14E-09 | 5.64E-10 | 1.12E-08 |
| 1758 | 256978.87 | 4084915.92 | 6.33E-09 | 8.46E-08 | 1.48E-08 | 1.48E-08 | 8.23E-09 | 1.29E-07 | 9.61E-10 | 1.29E-08 | 2.31E-08 | 2.31E-08 | 1.27E-09 | 1.97E-08 | 5.22E-10 | 6.97E-09 | 1.03E-09 | 1.03E-09 | 5.08E-10 | 1.01E-08 |
| 1759 | 256994.02 | 4084875 | 5.7105E-09 | 7.63E-08 | 1.33E-08 | 1.33E-08 | 7.43E-09 | 1.16E-07 | 8.67E-10 | 1.18E-08 | 2.08E-09 | 2.08E-09 | 1.14E-09 | 1.78E-08 | 4.71E-10 | 6.29E-09 | 9.26E-10 | 9.26E-10 | 4.58E-10 | 9.07E-09 |
| 1760 | 257009.17 | 4084834.09 | 5.2021E-09 | 6.95E-08 | 1.21E-08 | 1.21E-09 | 8.77E-09 | 1.06E-07 | 7.90E-10 | 1.06E-08 | 1.90E-09 | 1.90E-09 | 1.04E-09 | 1.62E-08 | 4.29E-10 | 5.73E-09 | 8.41E-10 | 8.41E-10 | 4.17E-10 | 8.26E-09 |
| 1761 | 257034.32 | 4084793.18 | 4.7703E-09 | 8.37E-08 | 1.11E-09 | 1.11E-08 | 8.20E-09 | 9.70E-08 | 7.24E-10 | 9.71E-09 | 1.74E-09 | 1.74E-09 | 9.55E-10 | 1.49E-08 | 3.93E-10 | 5.25E-09 | 7.73E-10 | 7.73E-10 | 3.81E-10 | 7.57E-08 |
| 1762 | 257039.47 | 4084752.26 | 4.3913E-09 | 5.67E-08 | 1.02E-08 | 1.02E-08 | 5.73E-09 | 8.91E-08 | 8.66E-10 | 8.94E-09 | 1.60E-09 | 1.60E-09 | 8.79E-10 | 1.37E-08 | 3.62E-10 | 4.84E-09 | 7.12E-10 | 7.12E-10 | 3.52E-10 | 8.97E-09 |
| 1763 | 257054.62 | 4084711.35 | 4.067E-09 | 5.43E-08 | 9.49E-09 | 9.49E-09 | 5.29E-09 | 8.27E-08 | 6.17E-10 | 8.28E-09 | 1.48E-09 | 1.48E-09 | 8.14E-10 | 1.27E-08 | 3.35E-10 | 4.48E-09 | 8.59E-10 | 6.59E-10 | 3.26E-10 | 8.48E-09 |
| 1764 | 257069.72 | 4084670.44 | 3.79E-09 | 5.06E-08 | 8.84E-09 | 8.84E-09 | 4.93E-09 | 7.70E-08 | 5.75E-10 | 7.71E-09 | 1.38E-09 | 1.38E-09 | 7.59E-10 | 1.18E-08 | 3.12E-10 | 4.17E-09 | 6.14E-10 | 6.14E-10 | 3.04E-10 | 6.02E-08 |
| 1765 | 257084.92 | 4084829.52 | 3.5458E-09 | 4.74E-08 | 8.27E-09 | 8.27E-09 | 4.61E-09 | 7.21E-08 | 5.38E-10 | 7.22E-09 | 1.29E-09 | 1.29E-09 | 7.10E-10 | 1.10E-08 | 2.92E-10 | 3.90E-09 | 5.75E-10 | 5.75E-10 | 2.84E-10 | 5.83E-09 |
| 1766 | 257100.07 | 4084588.61 | 3.3182E-09 | 4.43E-08 | 7.74E-09 | 7.74E-09 | 4.31E-09 | 6.74E-08 | 5.03E-10 | 6.75E-08 | 1.21E-09 | 1.21E-08 | 6.64E-10 | 1.03E-08 | 2.73E-10 | 3.65E-09 | 5.37E-10 | 5.37E-10 | 2.88E-10 | 5.27E-09 |
| 1767 | 257135.01 | 4084518.55 | 3.1122E-09 | 4.16E-08 | 7.26E-09 | 7.26E-09 | 4.05E-09 | 6.33E-08 | 4.72E-10 | 6.33E-09 | 1.13E-09 | 1.11E-09 | 8.23E-10 | 9.70E-09 | 2.57E-10 | 3.43E-09 | 5.04E-10 | 5.04E-10 | 2.50E-10 | 4.94E-09 |
| 1768 | 257174.83 | 4084520.25 | 3.1431E-09 | 4.20E-08 | 7.23E-09 | 7.33E-09 | 4.09E-09 | 6.39E-08 | 4.77E-10 | 8.40E-09 | 1.14E-09 | 1.14E-09 | 6.29E-10 | 9.79E-09 | 2.59E-10 | 3.46E-09 | 5.09E-10 | 5.09E-10 | 2.52E-10 | 4.99E-09 |
| 1769 | 257214.24 | 4084501.95 | 3.1887E-09 | 4.26E-08 | 7.44E-09 | 7.44E-09 | 4.15E-09 | 8.48E-08 | 4.84E-10 | 6.49E-09 | 1.16E-09 | 1.18E-09 | 8.39E-10 | 9.93E-09 | 2.63E-10 | 3.51E-09 | 5.17E-10 | 5.17E-10 | 2.56E-10 | 5.06E-09 |
| 1770 | 257253.84 | 4084483.86 | 3.2415E-09 | 4.33E-08 | 7.58E-09 | 7.56E-09 | 4.22E-09 | 8.59E-08 | 4.92E-10 | 6.60E-09 | 1.18E-09 | 1.18E-09 | 8.49E-10 | 1.01E-08 | 2.67E-10 | 3.57E-09 | 5.25E-10 | 5.25E-10 | 2.60E-10 | 5.15E-09 |
| 1721 | 257293.45 | 4084485.36 | 3.2907E-09 | 4.40E-08 | 7.68E-09 | 7.66E-09 | 4.28E-09 | 8.69E-08 | 4.99E-10 | 8.70E-09 | 1.20E-09 | 1.20E-09 | 6.59E-10 | 1.03E-08 | 2.71E-10 | 3.62E-09 | 5.31E-10 | 5.21E-10 | 2.64E-10 | 9.21E-09 |
| 1722 | 257333.05 | 4084447.06 | 3.1272E-09 | 4.44E-08 | 7.76E-09 | 7.76E-09 | 4.33E-09 | 6.76E-08 | 5.05E-10 | 6.73E-09 | 1.21E-09 | 1.21E-09 | 6.66E-10 | 1.04E-08 | 2.74E-10 | 3.66E-09 | 5.29E-10 | 5.39E-10 | 2.87E-10 | 5.28E-09 |
| 1773 | 257272.66 | 4084428.77 | 3.3472E-09 | 4.47E-08 | 7.81E-09 | 7.81E-09 | 4.35E-09 | 6.80E-08 | 5.08E-10 | 6.81E-09 | 1.22E-09 | 1.22E-09 | 6.70E-10 | 1.04E-08 | 2.76E-10 | 3.69E-09 | 5.42E-10 | 5.42E-10 | 2.69E-10 | 5.21E-09 |
| 1724 | 257412.27 | 4084410.47 | 3.3565E-09 | 4.42E-08 | 7.83E-09 | 7.83E-09 | 4.27E-09 | 6.82E-08 | 5.09E-10 | 6.62E-09 | 1.22E-09 | 1.22E-09 | 6.72E-10 | 1.05E-08 | 2.77E-10 | 3.70E-09 | 5.44E-10 | 5.44E-10 | 2.69E-10 | 5.33E-09 |
| 1775 | 257451.87 | 4084392.17 | 3.3654E-09 | 4.50E-08 | 7.65E-09 | 7.85E-09 | 4.38E-09 | 8.84E-08 | 5.11E-10 | 6.85E-09 | 1.23E-09 | 1.21E-09 | 8.74E-10 | 1.05E-08 | 2.77E-10 | 3.71E-09 | 5.45E-10 | 5.45E-10 | 2.70E-10 | 5.34E-09 |
| 1776 | 257491.48 | 4084373.87 | 3.3782E-09 | 4.51E-09 | 7.88E-09 | 7.88E-09 | 4.39E-09 | 8.87E-08 | 5.11E-10 | 6.87E-09 | 1.23E-09 | 1.23E-09 | 8.77E-10 | 1.05E-08 | 2.78E-10 | 3.72E-09 | 5.48E-10 | 5.48E-10 | 2.71E-10 | 5.36E-09 |
| 1777 | 256956.97 | 4084999.57 | 7.8661E-09 | 1.05E-07 | 1.84E-08 | 1.84E-08 | 1.02E-08 | 1.60E-07 | 1.19E-09 | 1.60E-08 | 2.87E-09 | 2.87E-09 | 1.58E-09 | 2.45E-08 | 8.48E-10 | 8.66E-09 | 1.27E-09 | 1.27E-09 | 8.31E-10 | 1.25E-08 |
| 1778 | 256958.62 | 4085044.13 | 8.7589E-09 | 1.17E-07 | 2.04E-08 | 2.04E-08 | 1.14E-08 | 1.78E-07 | 1.33E-09 | 1.78E-08 | 3.19E-09 | 3.19E-09 | 1.75E-09 | 2.73E-08 | 7.22E-10 | 9.64E-09 | 1.42E-09 | 1.42E-09 | 7.03E-10 | 1.39E-08 |
| 1779 | 256960.27 | 4085088.69 | 9.4878E-09 | 1.27E-07 | 2.21E-08 | 2.21E-08 | 1.23E-08 | 1.91E-07 | 1.44E-09 | 1.91E-08 | 3.46E-09 | 3.46E-09 | 1.90E-09 | 2.96E-08 | 7.82E-10 | 1.04E-08 | 1.34E-09 | 1.54E-09 | 7.61E-10 | 1.51E-08 |
| 1780 | 256961.92 | 4085133.25 | 1.006E-08 | 1.34E-07 | 2.25E-08 | 2.35E-08 | 1.21E-08 | 2.04E-07 | 1.51E-08 | 2.05E-08 | 3.66E-09 | 3.66E-09 | 2.01E-09 | 3.13E-08 | 8.29E-10 | 1.11E-08 | 1.63E-09 | 1.63E-09 | 8.07E-10 | 1.60E-08 |
| 1781 | 256963.57 | 4085172.82 | 1.0592E-08 | 1.41E-07 | 2.47E-08 | 2.47E-08 | 1.38E-08 | 2.15E-07 | 1.61E-09 | 2.16E-08 | 3.86E-09 | 3.66E-09 | 2.12E-09 | 3.30E-08 | 8.73E-10 | 1.17E-08 | 1.72E-09 | 1.72E-09 | 8.50E-10 | 1.66E-08 |
| 1782 | 256863.94 | 4084960.11 | 6.0567E-09 | 8.09E-08 | 1.41E-08 | 1.41E-08 | 7.88E-09 | 1.22E-07 | 9.19E-10 | 1.25E-08 | 2.21E-09 | 2.21E-09 | 1.21E-09 | 1.89E-08 | 4.99E-10 | 6.67E-09 | 9.82E-10 | 9.02E-10 | 4.86E-10 | 9.62E-09 |
| 1783 | 256879.41 | 4084918.34 | 5.4827E-09 | 7.32E-08 | 1.28E-08 | 1.28E-08 | 7.13E-09 | 1.11E-07 | 8.32E-10 | 1.12E-08 | 2.00E-09 | 2.00E-09 | 1.10E-09 | 1.71E-08 | 4.52E-10 | 8.04E-09 | 8.89E-10 | 8.89E-10 | 4.40E-10 | 8.71E-09 |
| 1784 | 256894.88 | 4084878.57 | 4.9762E-09 | 6.65E-08 | 1.18E-09 | 1.16E-08 | 8.47E-08 | 1.01E-07 | 7.55E-10 | 1.01E-08 | 1.81E-09 | 1.81E-09 | 9.97E-10 | 1.55E-08 | 4.10E-10 | 5.48E-09 | 8.07E-10 | 8.07E-10 | 3.99E-10 | 7.90E-09 |
| 1785 | 256910.34 | 4084834.81 | 4.5608E-09 | 6.09E-08 | 1.06E-08 | 1.06E-08 | 5.93E-09 | 9.27E-08 | 6.92E-10 | 9.28E-09 | 1.66E-09 | 1.66E-09 | 9.13E-10 | 1.42E-08 | 3.76E-10 | 5.02E-09 | 7.39E-10 | 7.39E-10 | 3.66E-10 | 7.24E-09 |
| 1786 | 256925.81 | 4084793.04 | 4.2109E-09 | 5.62E-08 | 9.82E-09 | 9.82E-09 | 5.48E-09 | 8.56E-08 | 6.29E-10 | 8.57E-09 | 1.53E-09 | 1.53E-09 | 8.43E-10 | 1.31E-08 | 3.47E-10 | 4.64E-09 | 6.82E-10 | 6.02E-10 | 3.38E-10 | 8.69E-09 |
| 1787 | 256941.27 | 4084751.28 | 3.892E-09 | 5.20E-08 | 9.08E-09 | 9.08E-09 | 5.06E-08 | 7.91E-08 | 5.91E-10 | 7.92E-09 | 1.42E-09 | 1.42E-09 | 7.79E-10 | 1.21E-08 | 3.21E-10 | 4.29E-09 | 8.31E-10 | 6.21E-10 | 3.12E-10 | 8.16E-09 |
| 1788 | 256956.74 | 4084709.51 | 3.5987E-09 | 4.81E-09 | 8.40E-09 | 8.40E-09 | 4.68E-09 | 7.31E-08 | 5.46E-10 | 7.22E-09 | 1.21E-09 | 1.21E-09 | 7.21E-10 | 1.12E-08 | 2.97E-10 | 3.96E-09 | 5.83E-10 | 5.83E-10 | 2.89E-10 | 5.71E-09 |
| 1789 | 256972.21 | 4084667.75 | 3.3399E-09 | 4.46E-08 | 7.79E-09 | 7.79E-09 | 4.34E-09 | 8.79E-08 | 5.07E-10 | 8.80E-08 | 1.22E-09 | 1.22E-08 | 6.69E-10 | 1.04E-09 | 2.75E-10 | 3.68E-09 | 5.41E-10 | 5.41E-10 | 2.68E-10 | 9.30E-09 |
| 1790 | 256987.67 | 4084625.98 | 3.1249E-09 | 4.17E-08 | 7.29E-09 | 7.29E-09 | 4.06E-09 | 8.29E-08 | 4.74E-10 | 6.36E-09 | 1.14E-09 | 1.14E-09 | 8.26E-10 | 9.74E-09 | 2.36E-10 | 3.44E-09 | 5.06E-10 | 5.06E-10 | 2.51E-10 | 4.96E-09 |
| 1791 | 257003.14 | 4084584.22 | 2.9409E-09 | 3.93E-08 | 8.86E-09 | 6.86E-09 | 3.83E-09 | 5.98E-08 | 4.46E-10 | 5.98E-09 | 1.07E-09 | 1.07E-09 | 5.89E-10 | 9.18E-09 | 2.42E-10 | 3.24E-09 | 4.77E-10 | 4.77E-10 | 2.36E-10 | 4.67E-09 |
| 1792 | 257018.6 | 4084542.45 | 2.7735E-09 | 3.70E-08 | 6.47E-09 | 6.47E-09 | 3.61E-09 | 5.64E-08 | 4.21E-10 | 5.64E-09 | 1.01E-09 | 1.01E-09 | 5.55E-10 | 8.84E-09 | 2.29E-10 | 3.05E-09 | 4.49E-10 | 4.49E-10 | 2.22E-10 | 4.40E-09 |
| 1793 | 257034.07 | 4084500.69 | 2.6166E-09 | 3.50E-08 | 6.10E-09 | 6.10E-09 | 3.40E-09 | 5.32E-08 | 3.97E-10 | 5.32E-09 | 9.35E-10 | 9.35E-10 | 5.24E-10 | 8.15E-09 | 2.16E-10 | 2.88E-09 | 4.24E-10 | 4.24E-10 | 2.10E-10 | 4.15E-09 |
| 1794 | 257062.02 | 4084470.46 | 2.551E-09 | 3.41E-08 | 5.95E-09 | 5.95E-09 | 3.32E-09 | 5.18E-08 | 3.87E-10 | 5.19E-09 | 9.29E-10 | 9.29E-10 | 5.11E-10 | 7.95E-09 | 2.10E-10 | 2.81E-09 | 4.13E-10 | 4.13E-10 | 2.05E-10 | 4.05E-09 |
| 1795 | 257102.45 | 4084451.78 | 2.5783E-09 | 3.44E-08 | 6.02E-09 | 8.02E-09 | 3.35E-09 | 5.24E-08 | 3.91E-10 | 5.25E-09 | 9.39E-10 | 9.39E-10 | 5.16E-10 | 8.02E-09 | 2.13E-10 | 2.84E-09 | 4.18E-10 | 4.18E-10 | 2.07E-10 | 4.09E-09 |
| 1796 | 257142.68 | 4084433.11 | 2.6202E-09 | 3.50E-08 | 6.11E-09 | 8.11E-09 | 3.41E-09 | 5.33E-08 | 3.98E-10 | 5.33E-09 | 9.54E-10 | 9.54E-10 | 5.25E-10 | 8.18E-09 | 2.16E-10 | 2.88E-09 | 4.25E-10 | 4.25E-10 | 2.10E-10 | 4.16E-09 |
| 1797 | 257163.31 | 4084414.43 | 2.673E-09 | 3.57E-08 | 6.24E-09 | 6.24E-09 | 3.48E-09 | 5.43E-08 | 4.06E-10 | 5.44E-09 | 9.74E-10 | 9.74E-10 | 5.35E-10 | 8.33E-09 | 2.20E-10 | 2.94E-09 | 4.33E-10 | 4.33E-10 | 2.14E-10 | 4.24E-09 |
| 1798 | 257223.74 | 4084395.75 | 2.7186E-09 | 3.63E-08 | 6.34E-09 | 8.34E-08 | 3.54E-09 | 5.53E-08 | 4.13E-10 | 5.53E-09 | 9.90E-10 | 9.90E-10 | 5.44E-10 | 8.47E-09 | 2.24E-10 | 2.99E-09 | 4.41E-10 | 4.41E-10 | 2.18E-10 | 4.32E-09 |
| 1799 | 257384.17 | 4084377.07 | 2.7496E-09 | 3.67E-08 | 6.41E-09 | 6.41E-09 | 3.58E-09 | 5.59E-08 | 4.17E-10 | 5.60E-09 | 1.00E-09 | 1.00E-09 | 5.51E-10 | 8.57E-09 | 2.27E-10 | 3.03E-09 | 4.46E-10 | 4.46E-10 | 2.21E-10 | 4.37E-09 |
| 1800 | 257304.61 | 4084358.39 | 2.7605E-09 | 3.69E-08 | 6.44E-09 | 6.44E-09 | 3.59E-09 | 5.81E-08 | 4.19E-10 | 5.62E-09 | 1.01E-09 | 1.01E-09 | 5.53E-10 | 8.60E-09 | 2.28E-10 | 3.04E-09 | 4.47E-10 | 4.47E-10 | 2.21E-10 | 4.38E-09 |
| 1801 | 257345.04 | 4084339.71 | 2.7514E-09 | 3.68E-08 | 6.42E-09 | 6.42E-09 | 3.36E-09 | 5.59E-08 | 4.18E-10 | 5.60E-09 | 1.00E-09 | 1.00E-09 | 5.51E-10 | 8.57E-09 | 2.27E-10 | 3.03E-09 | 4.46E-10 | 4.46E-10 | 2.21E-10 | 4.37E-09 |
| 1802 | 257385.47 | 4084321.04 | 2.7314E-09 | 3.65E-08 | 6.37E-09 | 6.27E-09 | 3.55E-09 | 5.58E-08 | 4.15E-10 | 5.56E-09 | 9.95E-10 | 9.95E-10 | 5.47E-10 | 8.51E-09 | 2.25E-10 | 3.01E-09 | 4.43E-10 | 4.43E-10 | 2.19E-10 | 4.34E-09 |
| 1803 | 257425.9 | 4084302.36 | 2.7113E-09 | 3.62E-08 | 6.33E-09 | 6.35E-09 | 3.53E-09 | 5.51E-08 | 4.11E-10 | 5.52E-09 | 9.88E-10 | 9.88E-10 | 5.43E-10 | 8.45E-09 | 2.23E-10 | 2.99E-08 | 4.39E-10 | 4.39E-10 | 2.18E-10 | 4.31E-09 |
| 1804 | 257466.33 | 4084263.68 | 2.7058E-09 | 3.61E-08 | 6.31E-09 | 6.21E-09 | 3.52E-09 | 5.50E-08 | 4.11E-10 | 5.51E-09 | 9.86E-10 | 9.86E-10 | 5.42E-10 | 8.43E-09 | 2.23E-10 | 2.98E-09 | 4.39E-10 | 4.39

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1596 | 259748.82 | 4084636.87 | 6.22E-09 | 8.32E-09 | 1.45E-08 | 1.45E-08 | 6.10E-09 | 1.27E-07 |
| 1597 | 259758.75 | 4084658.62 | 6.01E-09 | 6.03E-08 | 1.40E-08 | 1.40E-08 | 7.82E-09 | 1.22E-07 |
| 1598 | 259768.68 | 4084680.37 | 5.8144E-09 | 7.77E-08 | 1.36E-08 | 1.36E-08 | 7.58E-09 | 1.18E-07 |
| 1599 | 259778.61 | 4084702.12 | 5.6156E-09 | 7.33E-08 | 1.31E-08 | 1.31E-08 | 7.33E-09 | 1.15E-07 |
| 1600 | 259788.54 | 4084724.67 | 5.4755E-09 | 7.31E-08 | 1.26E-08 | 1.26E-08 | 7.12E-09 | 1.11E-07 |
| 1601 | 259798.47 | 4084746.61 | 5.3279E-09 | 7.17E-08 | 1.24E-08 | 1.24E-08 | 6.93E-09 | 1.08E-07 |
| 1602 | 259808.29 | 4084766.56 | 5.1854E-09 | 6.92E-08 | 1.21E-08 | 1.21E-08 | 6.75E-09 | 1.05E-07 |
| 1602 | 259818.32 | 4084790.51 | 5.0545E-09 | 6.75E-08 | 1.18E-08 | 1.18E-08 | 6.57E-08 | 1.01E-07 |
| 1604 | 259826.25 | 4084812.46 | 4.9179E-08 | 6.57E-08 | 1.13E-08 | 1.15E-08 | 6.40E-09 | 1.00E-07 |
| 1605 | 259838.18 | 4084834.41 | 4.7776E-09 | 6.38E-08 | 1.11E-08 | 1.11E-08 | 8.21E-09 | 9.71E-08 |
| 1606 | 259848.11 | 4084856.35 | 4.6318E-09 | 6.19E-08 | 1.08E-08 | 1.06E-08 | 6.01E-09 | 9.41E-08 |
| 1607 | 258297.07 | 4083423.33 | 1.66672E-09 | 2.23E-08 | 2.89E-09 | 2.89E-09 | 2.17E-09 | 3.39E-08 |
| 1608 | 258272.72 | 4083424.33 | 1.8344E-08 | 2.18E-08 | 2.81E-08 | 2.81E-09 | 2.13E-09 | 2.32E-08 |
| 1609 | 258248.4 | 4083425.33 | 1.6036E-09 | 2.14E-08 | 2.74E-09 | 2.74E-09 | 2.09E-09 | 3.26E-08 |
| 1610 | 258224.07 | 4083426.33 | 1.3745E-08 | 2.10E-08 | 3.87E-09 | 3.67E-09 | 2.05E-09 | 3.20E-08 |
| 1811 | 258199.74 | 4083427.33 | 1.5452E-09 | 2.06E-08 | 3.60E-09 | 3.60E-09 | 2.01E-08 | 3.14E-08 |
| 1612 | 258175.41 | 4083428.33 | 1.3178E-09 | 2.03E-08 | 3.54E-09 | 3.54E-09 | 1.97E-09 | 3.08E-09 |
| 1613 | 258151.07 | 4083429.33 | 1.4905E-09 | 1.99E-08 | 2.48E-09 | 3.48E-09 | 1.94E-08 | 3.01E-08 |
| 1614 | 258126.74 | 4083430.33 | 1.4632E-09 | 1.95E-08 | 3.41E-09 | 3.41E-09 | 1.90E-09 | 2.97E-09 |
| 1815 | 258102.41 | 4083421.33 | 1.4358E-08 | 1.92E-08 | 3.35E-09 | 2.35E-09 | 1.87E-09 | 2.92E-08 |
| 1616 | 258078.08 | 4083421.23 | 1.4085E-09 | 1.86E-08 | 3.29E-09 | 2.29E-09 | 1.83E-09 | 2.86E-08 |
| 1617 | 258053.75 | 4083432.33 | 1.383E-09 | 1.85E-08 | 3.23E-09 | 3.23E-09 | 1.80E-09 | 2.81E-08 |
| 1618 | 258029.42 | 4083434.33 | 1.2557E-09 | 1.81E-08 | 3.16E-09 | 3.16E-09 | 1.76E-09 | 2.76E-08 |
| 1619 | 258005.08 | 4083425.33 | 1.3301E-09 | 1.78E-08 | 3.10E-09 | 3.10E-09 | 1.73E-09 | 2.70E-06 |
| 1620 | 257980.75 | 4083436.33 | 1.3028E-09 | 1.74E-08 | 3.04E-09 | 3.04E-09 | 1.69E-09 | 2.65E-08 |
| 1621 | 257956.42 | 4083437.33 | 1.2773E-09 | 1.71E-08 | 2.98E-08 | 2.98E-09 | 1.66E-09 | 2.60E-08 |
| 1622 | 257932.09 | 4083438.33 | 1.25366E-09 | 1.87E-08 | 2.92E-09 | 2.92E-09 | 1.63E-09 | 2.55E-08 |
| 1623 | 257907.76 | 4083429.33 | 1.2281E-09 | 1.64E-08 | 2.87E-09 | 2.87E-09 | 1.60E-09 | 2.50E-08 |
| 1624 | 257683.42 | 4083440.33 | 1.2044E-09 | 1.61E-09 | 2.81E-09 | 2.81E-09 | 1.57E-09 | 2.45E-08 |
| 1625 | 257859.09 | 4083441.22 | 1.18256E-09 | 1.58E-08 | 2.76E-09 | 2.76E-09 | 1.54E-09 | 2.40E-08 |
| 1626 | 257834.76 | 4083442.22 | 1.1607E-09 | 1.56E-08 | 2.71E-09 | 2.71E-09 | 1.51E-09 | 2.26E-08 |
| 1627 | 257810.42 | 4083442.22 | 1.1406E-09 | 1.52E-08 | 2.66E-09 | 2.66E-09 | 1.48E-09 | 2.32E-08 |
| 1628 | 257786.1 | 4083444.22 | 1.1206E-09 | 1.50E-08 | 2.61E-09 | 2.81E-09 | 1.46E-09 | 2.26E-08 |
| 1629 | 257761.72 | 4083445.33 | 1.1024E-09 | 1.47E-09 | 2.57E-09 | 2.57E-09 | 1.42E-09 | 2.24E-08 |
| 1630 | 257737.42 | 4083446.22 | 1.0841E-09 | 1.45E-09 | 2.55E-09 | 2.55E-09 | 1.43E-09 | 2.20E-08 |
| 1621 | 257712.1 | 4083447.33 | 1.0678E-09 | 1.43E-08 | 2.49E-09 | 2.49E-09 | 1.39E-09 | 2.17E-08 |
| 1632 | 257668.72 | 4083448.32 | 1.0514E-09 | 1.40E-08 | 2.45E-09 | 2.45E-09 | 1.37E-09 | 2.14E-08 |
| 1633 | 257664.44 | 4083449.33 | 1.0368E-09 | 1.38E-08 | 2.42E-09 | 2.42E-09 | 1.35E-09 | 2.11E-08 |
| 1634 | 257640.11 | 4083450.32 | 1.0222E-09 | 1.27E-08 | 2.38E-09 | 2.38E-09 | 1.33E-09 | 2.08E-08 |
| 1635 | 257615.72 | 4083451.33 | 1.0076E-09 | 1.35E-08 | 2.35E-08 | 2.35E-09 | 1.31E-09 | 2.05E-08 |
| 1628 | 257591.44 | 4083452.33 | 9.9487E-10 | 1.22E-08 | 2.32E-08 | 2.32E-09 | 1.29E-09 | 2.02E-08 |
| 1637 | 257567.11 | 4083453.34 | 9.8212E-10 | 1.31E-08 | 2.29E-09 | 2.29E-09 | 1.28E-09 | 2.00E-08 |
| 1638 | 257542.78 | 4083454.34 | 9.6937E-10 | 1.29E-08 | 2.26E-09 | 2.26E-09 | 1.26E-09 | 1.97E-08 |
| 1639 | 257518.45 | 4083455.34 | 9.5661E-10 | 1.26E-08 | 2.22E-09 | 2.23E-09 | 1.24E-09 | 1.94E-08 |
| 1640 | 257494.12 | 4083456.34 | 9.4568E-10 | 1.26E-08 | 2.21E-08 | 2.21E-08 | 1.23E-09 | 1.92E-08 |
| 1641 | 257530.75 | 4084956 | 7.2311E-08 | 9.66E-07 | 1.69E-07 | 1.69E-07 | 9.41E-08 | 1.47E-09 |
| 1642 | 257532.4 | 4085000.56 | 1.9154E-07 | 2.58E-09 | 4.47E-07 | 4.47E-07 | 2.49E-07 | 2.89E-09 |
| 1642 | 257534.05 | 4085045.12 | 3.0442E-07 | 4.07E-09 | 7.10E-07 | 7.10E-07 | 2.96E-07 | 6.19E-06 |
| 1644 | 257534.87 | 4085067.4 | 3.4031E-07 | 4.55E-09 | 7.94E-07 | 7.94E-07 | 4.45E-07 | 6.92E-09 |
| 1645 | 257536.52 | 4085111.96 | 2.827E-07 | 9.31E-09 | 6.95E-07 | 6.92E-07 | 4.98E-07 | 7.75E-08 |
| 1648 | 257538.18 | 4085156.33 | 2.7016E-07 | 4.94E-08 | 8.64E-07 | 8.64E-07 | 4.81E-07 | 7.52E-09 |
| 1647 | 257512.39 | 4084939.02 | 4.5239E-08 | 6.04E-07 | 1.06E-07 | 1.06E-07 | 5.88E-08 | 9.19E-07 |
| 1648 | 257506.39 | 4084979.2 | 7.586E-08 | 1.01E-08 | 1.77E-07 | 1.77E-07 | 9.87E-08 | 1.54E-08 |
| 1649 | 257508.24 | 4085023.76 | 1.4477E-07 | 1.93E-08 | 3.32E-07 | 3.38E-07 | 1.88E-07 | 2.94E-09 |
| 1650 | 257509.89 | 4085068.13 | 2.0645E-07 | 2.76E-08 | 4.02E-07 | 4.82E-07 | 2.69E-07 | 4.20E-08 |
| 1651 | 257511.54 | 4085112.89 | 2.4403E-07 | 3.26E-08 | 5.69E-07 | 9.69E-07 | 3.17E-07 | 4.96E-08 |
| 1652 | 257513.19 | 4085157.45 | 2.505E-07 | 3.35E-08 | 5.84E-07 | 5.84E-07 | 3.26E-07 | 5.09E-09 |
| 1653 | 257487.41 | 4084939.95 | 3.7317E-08 | 4.98E-07 | 6.71E-08 | 6.71E-08 | 4.85E-08 | 7.56E-07 |
| 1654 | 257517.99 | 4084896.14 | 2.9899E-08 | 3.99E-07 | 6.95E-08 | 6.58E-08 | 3.89E-08 | 6.08E-07 |
| 1655 | 257481.61 | 4084980.13 | 5.3992E-08 | 7.48E-07 | 1.31E-07 | 1.31E-07 | 7.26E-08 | 1.14E-09 |
| 1656 | 257483.26 | 4085024.69 | 9.3103E-08 | 1.27E-09 | 2.22E-07 | 2.22E-07 | 1.24E-07 | 1.95E-06 |
| 1657 | 257484.91 | 4085069.25 | 1.3866E-07 | 1.85E-08 | 2.24E-07 | 2.24E-07 | 1.80E-07 | 2.82E-09 |
| 1658 | 257486.56 | 4085113.81 | 1.7014E-07 | 2.27E-08 | 2.97E-07 | 2.97E-07 | 2.21E-07 | 3.46E-06 |
| 1659 | 257488.21 | 4085158.38 | 1.8261E-07 | 2.44E-09 | 4.76E-07 | 4.26E-07 | 2.38E-07 | 3.71E-09 |
| 1660 | 257462.42 | 4084940.87 | 2.1648E-08 | 4.22E-07 | 7.38E-08 | 7.36E-08 | 4.12E-08 | 8.42E-07 |
| 1661 | 257475.68 | 4084905.07 | 2.5291E-08 | 3.38E-07 | 5.90E-08 | 5.90E-08 | 2.29E-09 | 5.14E-07 |
| 1662 | 257499.64 | 4084879.17 | 2.3438E-08 | 3.13E-07 | 5.47E-08 | 5.47E-08 | 3.05E-08 | 4.76E-07 |
| 1663 | 257456.62 | 4084981.05 | 4.4429E-08 | 9.93E-07 | 1.04E-07 | 1.04E-07 | 5.76E-08 | 9.03E-07 |
| 1664 | 257458.28 | 4085025.62 | 6.8918E-08 | 9.21E-07 | 1.61E-07 | 1.61E-07 | 8.96E-08 | 1.40E-06 |
| 1665 | 257459.1 | 4085047.9 | 8.4164E-09 | 1.12E-08 | 1.96E-07 | 1.96E-07 | 1.09E-07 | 1.71E-08 |
| 1668 | 257460.75 | 4085092.46 | 1.1345E-07 | 1.52E-09 | 2.65E-07 | 2.65E-07 | 1.48E-07 | 2.31E-08 |
| 1667 | 257461.4 | 4085137.02 | 1.3375E-07 | 1.79E-08 | 3.12E-07 | 2.12E-07 | 1.74E-07 | 2.72E-08 |
| 1668 | 257412.46 | 4084942.77 | 2.4077E-08 | 3.22E-07 | 5.62E-08 | 5.62E-08 | 2.13E-08 | 4.69E-07 |
| 1669 | 257425.77 | 4084906.92 | 2.004E-08 | 2.66E-07 | 4.58E-08 | 4.68E-08 | 2.83E-08 | 4.07E-07 |
| 1670 | 257418.97 | 4084871.12 | 1.8973E-08 | 2.27E-07 | 2.96E-08 | 2.96E-08 | 2.21E-08 | 2.45E-07 |
| 1671 | 257462.92 | 4084845.22 | 1.5996E-08 | 2.14E-07 | 3.72E-08 | 2.75E-08 | 2.08E-09 | 2.25E-07 |
| 1672 | 257497.59 | 4084829.21 | 1.6594E-08 | 2.22E-07 | 2.07E-08 | 2.07E-08 | 2.16E-08 | 2.37E-07 |
| 1673 | 257406.66 | 4084982.91 | 2.1271E-08 | 4.13E-07 | 7.30E-08 | 7.30E-08 | 4.07E-08 | 6.36E-07 |
| 1674 | 257408.21 | 4085027.47 | 4.2219E-08 | 5.77E-07 | 1.01E-07 | 1.01E-07 | 9.63E-09 | 6.76E-07 |
| 1675 | 257409.96 | 4085072.03 | 5.2834E-08 | 7.66E-07 | 1.27E-07 | 1.27E-07 | 7.65E-08 | 1.20E-06 |
| 1676 | 257411.61 | 4085116.59 | 7.5024E-08 | 1.00E-09 | 1.75E-07 | 1.75E-07 | 9.76E-08 | 1.52E-09 |
| 1677 | 257412.26 | 4085181.15 | 8.6584E-08 | 1.16E-08 | 2.63E-07 | 2.03E-07 | 1.13E-07 | 1.77E-06 |
| 1678 | 257362.44 | 4084942.02 | 1.9028E-08 | 2.54E-07 | 4.44E-08 | 4.44E-08 | 2.48E-09 | 2.87E-07 |
| 1879 | 257378.59 | 4084901.21 | 1.5913E-08 | 2.13E-07 | 2.71E-08 | 3.71E-08 | 2.07E-08 | 3.23E-07 |
| 1680 | 757292.74 | 4084860.19 | 1.3549E-08 | 1.81E-07 | 2.16E-08 | 2.16E-08 | 1.76E-09 | 2.75E-07 |
| 1681 | 257428.7 | 4084810.13 | 1.1884E-08 | 1.59E-07 | 2.77E-08 | 2.77E-08 | 2.55E-09 | 2.42E-07 |
| 1682 | 257468.3 | 4084791.62 | 1.225E-08 | 1.64E-07 | 2.86E-08 | 2.86E-08 | 1.59E-08 | 2.49E-07 |
| 1683 | 257507.91 | 4084722.54 | 1.2662E-08 | 1.69E-07 | 2.95E-08 | 2.95E-08 | 1.65E-08 | 2.57E-07 |
| 1664 | 257356.69 | 4084984.78 | 2.3922E-08 | 3.20E-07 | 5.58E-08 | 5.58E-08 | 2.11E-08 | 4.85E-07 |
| 1685 | 257358.34 | 4085029.32 | 3.0996E-09 | 4.14E-07 | 7.23E-08 | 7.23E-08 | 4.02E-09 | 6.30E-07 |
| 1668 | 257359.99 | 4085073.88 | 2.9646E-08 | 5.30E-07 | 9.25E-08 | 9.25E-08 | 5.16E-08 | 8.06E-07 |
| 1687 | 257261.65 | 4085118.44 | 4.9577E-08 | 6.62E-07 | 1.16E-07 | 1.16E-07 | 6.45E-08 | 1.01E-06 |
| 1668 | 257363.3 | 4085163.01 | 5.8612E-08 | 7.83E-07 | 1.37E-07 | 1.37E-07 | 7.62E-08 | 1.19E-08 |
| 1689 | 257213.27 | 4084944.44 | 1.5809E-08 | 2.11E-07 | 3.69E-08 | 3.69E-08 | 2.06E-08 | 2.21E-07 |
| 1690 | 257328 | 4084904.66 | 1.3524E-08 | 1.81E-07 | 3.16E-08 | 3.16E-08 | 1.75E-08 | 2.75E-07 |
| 1691 | 257342.73 | 4084864.88 | 1.174E-08 | 1.57E-07 | 2.74E-08 | 2.74E-08 | 1.53E-08 | 2.39E-07 |
| 1692 | 257357.46 | 4084825.11 | 1.0121E-08 | 1.35E-07 | 2.41E-08 | 2.41E-08 | 1.34E-09 | 2.10E-07 |
| 1693 | 257791.44 | 4084776.44 | 9.2636E-09 | 1.24E-07 | 2.16E-08 | 2.16E-08 | 1.20E-08 | 1.88E-07 |
| 1694 | 257429.94 | 4084758.65 | 9.4805E-09 | 1.27E-07 | 2.21E-08 | 2.21E-08 | 1.23E-08 | 1.95E-07 |
| 1695 | 257468.49 | 4084740.86 | 9.6882E-09 | 1.29E-07 | 2.26E-08 | 2.26E-08 | 1.26E-08 | 1.97E-07 |
| 1696 | 257506.96 | 4084723.07 | 9.9451E-09 | 1.33E-07 | 2.32E-08 | 2.32E-08 | 1.29E-08 | 2.02E-07 |
| 1697 | 257306.73 | 4084986.61 | 1.926E-08 | 2.57E-07 | 4.48E-08 | 4.49E-08 | 2.51E-08 | 2.91E-07 |
| 1698 | 257307.35 | 4085008.89 | 2.1548E-08 | 2.88E-07 | 5.03E-08 | 5.03E-08 | 2.82E-08 | 4.38E-07 |
| 1699 | 257309.2 | 4085053.45 | 2.6493E-08 | 2.54E-07 | 6.18E-08 | 6.18E-08 | 2.45E-08 | 5.38E-07 |
| 1700 | 257310.85 | 4085098.01 | 3.2192E-08 | 4.30E-07 | 7.51E-08 | 7.51E-08 | 4.19E-08 | 8.54E-07 |
| 1701 | 257312.51 | 4085142.58 | 3.8529E-08 | 5.15E-07 | 8.99E-08 | 8.99E-08 | 5.01E-08 | 7.83E-07 |
| 1702 | 257763.17 | 4084946.65 | 1.3482E-08 | 1.80E-07 | 2.16E-08 | 2.15E-08 | 1.75E-08 | 2.74E-07 |
| 1703 | 257277.82 | 4084907.8 | 1.1698E-08 | 1.56E-07 | 2.75E-08 | 2.73E-08 | 1.51E-09 | 2.38E-07 |
| 1704 | 257292.09 | 4084868.54 | 1.0282E-08 | 1.37E-07 | 2.40E-08 | 2.40E-08 | 1.34E-08 | 2.09E-07 |
| 1705 | 257306.55 | 4084829.49 | 9.158E-09 | 1.22E-07 | 2.14E-08 | 2.14E-08 | 1.19E-08 | 1.86E-07 |
| 1706 | 257321.01 | 4084790.44 | 8.2287E-09 | 1.10E-07 | 1.92E-08 | 1.92E-08 | 1.07E-08 | 1.67E-07 |
| 1707 | 257334.18 | 4084742.65 | 7.4871E-09 | 1.00E-07 | 1.75E-08 | 1.75E-08 | 9.74E-09 | 1.52E-07 |
| 1708 | 257392.18 | 4084725.19 | 7.8227E-09 | 1.02E-07 | 1.78E-08 | 1.78E-08 | 9.92E-09 | 1.55E-07 |
| 1709 | 257429.99 | 4084707.72 | 7.7495E-09 | 1.04E-07 | 1.81E-08 | 1.81E-08 | 1.01E-08 | 1.57E-07 |
| 1710 | 257467.8 | 4084690.25 | 7.8823E-09 | 1.05E-07 | 1.84E-08 | 1.84E-08 | 1.03E-08 | 1.60E-07 |
| 1711 | 257505.6 | 4084677.79 | 8.0629E-08 | 1.08E-07 | 1.88E-08 | 1.88E-08 | 1.05E-08 | 1.64E-07 |
| 1712 | 257756.76 | 4084988.46 | 1.606E-08 | 2.15E-07 | 3.75E-08 | 3.75E-08 | 2.09E-08 | 3.26E-07 |
| 1713 | 257258.41 | 4085032.02 | 1.9385E-08 | 2.59E-07 | 4.52E-08 | 4.52E-09 | 2.52E-08 | 3.94E-07 |
| 1714 | 257260.06 | 4085077.58 | 2.2899E-08 | 3.06E-07 | 5.34E-08 | 5.34E-08 | 2.98E-08 | 4.65E-07 |
| 1715 | 257161.71 | 4085122.15 | 2.6758E-08 | 3.57E-07 | 6.24E-08 | 6.24E-08 | 3.48E-08 | 5.44E-07 |
| 1716 | 257263.27 | 4085166.71 | 2.1076E-08 | 4.15E-07 | 7.25E-08 | 7.25E-08 | 4.04E-08 | 6.32E-07 |
| 1717 | 257163.58 | 4084949.42 | 1.035E-08 | 1.38E-07 | 2.41E-08 | 2.41E-08 | 1.34E-08 | 2.10E-07 |
| 1718 | 257178.73 | 4084908.51 | 9.0687E-09 | 1.21E-07 | 2.12E-08 | 2.12E-08 | 1.18E-08 | 1.84E-07 |
| | | | | | | | | |
| | | | 9.45E-10 | 1.27E-08 | 2.27E-09 | 2.27E-09 | 1.25E-09 | 1.94E-09 |
| | | | 9.13E-10 | 1.22E-08 | 2.19E-09 | 2.19E-09 | 1.20E-09 | 1.87E-08 |
| | | | 8.82E-10 | 1.18E-08 | 2.12E-09 | 2.12E-09 | 1.16E-09 | 1.81E-08 |
| | | | 8.55E-10 | 1.15E-08 | 2.05E-09 | 2.05E-09 | 1.12E-09 | 1.75E-09 |
| | | | 8.31E-10 | 1.11E-08 | 1.99E-09 | 1.99E-09 | 1.10E-09 | 1.71E-08 |
| | | | 8.09E-10 | 1.08E-08 | 1.94E-09 | 1.94E-09 | 1.07E-09 | 1.66E-08 |
| | | | 7.86E-10 | 1.06E-08 | 1.89E-09 | 1.89E-09 | 1.04E-09 | 1.62E-08 |
| | | | 7.67E-10 | 1.03E-08 | 1.84E-09 | 1.84E-09 | 1.01E-09 | 1.57E-08 |
| | | | 7.46E-10 | 1.00E-08 | 1.79E-09 | 1.79E-09 | 9.85E-10 | 1.53E-08 |
| | | | 7.25E-10 | 9.72E-09 | 1.74E-09 | 1.74E-09 | 9.57E-10 | 1.49E-08 |
| | | | 7.03E-10 | 9.43E-09 | 1.69E-09 | 1.69E-09 | 9.28E-10 | 1.44E-08 |
| | | | 2.55E-10 | 2.39E-09 | 6.07E-10 | 6.07E-10 | 3.34E-10 | 5.19E-09 |
| | | | 2.48E-10 | 2.23E-09 | 5.95E-10 | 5.95E-10 | 3.27E-10 | 5.09E-09 |
| | | | 2.42E-10 | 3.26E-09 | 5.84E-10 | 5.84E-10 | 3.21E-10 | 5.00E-09 |
| | | | 2.29E-10 | 3.20E-09 | 5.76E-10 | 5.71E-10 | 3.15E-10 | 4.90E-09 |
| | | | 2.25E-10 | 3.14E-09 | 5.63E-10 | 5.63E-10 | 3.09E-10 | 4.81E-09 |
| | | | 2.20E-10 | 3.09E-09 | 5.36E-10 | 5.33E-10 | 3.04E-10 | 4.73E-09 |
| | | | 2.26E-10 | 1.63E-09 | 5.46E-10 | 5.43E-10 | 2.99E-10 | 4.64E-09 |
| | | | 2.22E-10 | 2.98E-09 | 5.33E-10 | 5.33E-10 | 2.93E-10 | 4.56E-09 |
| | | | 2.16E-10 | 2.92E-09 | 5.23E-10 | 5.23E-10 | 2.88E-10 | 4.47E-09 |
| | | | 2.14E-10 | 2.87E-09 | 5.15E-10 | 5.13E-10 | 2.82E-10 | 4.29E-09 |
| | | | 2.10E-10 | 2.81E-09 | 5.04E-10 | 5.04E-10 | 2.77E-10 | 4.31E-09 |
| | | | 2.06E-10 | 2.76E-09 | 4.94E-10 | 4.94E-10 | 2.71E-10 | 4.22E-09 |
| | | | 2.02E-10 | 2.71E-09 | 4.85E-10 | 4.85E-10 | 2.66E-10 | 4.14E-09 |
| | | | 1.98E-10 | 2.65E-09 | 4.75E-10 | 4.75E-10 | 2.61E-10 | 4.05E-09 |
| | | | 1.94E-10 | 2.60E-09 | 4.65E-10 | 4.65E-10 | 2.54E-10 | 3.98E-09 |
| | | | 1.90E-10 | 2.55E-09 | 4.37E-10 | 4.57E-10 | 2.31E-10 | 2.91E-09 |
| | | | 1.86E-10 | 2.50E-09 | 4.47E-10 | 4.47E-10 | 2.46E-10 | 1.83E-09 |
| | | | 1.83E-10 | 2.45E-09 | 4.39E-10 | 4.39E-10 | 2.41E-10 | 3.75E-09 |
| | | | 1.79E-10 | 2.41E-09 | 4.31E-10 | 4.31E-10 | 2.37E-10 | 3.68E-09 |
| | | | 1.76E-10 | 2.26E-09 | 4.23E-10 | 4.23E-10 | 2.32E-10 | 3.62E-09 |
| | | | 1.71E-10 | 2.32E-09 | 4.16E-10 | 4.16E-10 | 2.28E-10 | 3.55E-09 |
| | | | 1.70E-10 | 2.28E-09 | 4.08E-10 | 4.08E-10 | 2.24E-10 | 2.49E-08 |
| | | | 1.87E-10 | 2.24E-09 | 4.01E-10 | 4.02E-10 | 2.21E-10 | 3.43E-09 |
| | | | 1.65E-10 | 2.21E-09 | 2.95E-10 | 2.95E-10 | 2.17E-10 | 2.38E-08 |
| | | | 1.62E-10 | 2.17E-09 | 2.89E-10 | 3.89E-10 | 2.14E-10 | 3.33E-09 |
| | | | 1.60E-10 | 2.14E-09 | 3.83E-10 | 3.83E-10 | 2.11E-10 | 2.25E-09 |
| | | | 1.57E-10 | 2.11E-09 | 2.78E-10 | 3.78E-10 | 2.08E-10 | 3.23E-09 |
| | | | 1.55E-10 | 2.08E-09 | 3.72E-10 | 3.72E-10 | 2.05E-10 | 3.13E-09 |
| | | | 1.53E-10 | 2.85E-09 | 3.07E-10 | 3.67E-10 | 2.02E-10 | 3.14E-09 |
| | | | 1.51E-10 | 2.02E-09 | 3.62E-10 | 3.62E-10 | 1.99E-10 | 3.10E-09 |
| | | | 1.49E-10 | 2.00E-09 | 3.58E-10 | 3.58E-10 | 1.97E-10 | 3.06E-09 |
| | | | 1.47E-10 | 1.97E-09 | 3.53E-10 | 3.53E-10 | 1.94E-10 | 2.02E-09 |
| | | | 1.45E-10 | 1.95E-09 | 3.48E-10 | 3.48E-10 | 1.92E-10 | 2.98E-09 |
| | | | 1.44E-10 | 1.92E-09 | 3.44E-10 | 3.44E-10 | 1.89E-10 | 2.95E-09 |
| | | | 1.10E-08 | 1.47E-07 | 2.63E-08 | 2.83E-08 | 1.45E-08 | 2.23E-07 |
| | | | 2.91E-08 | 2.90E-07 | 6.98E-08 | 6.98E-08 | 3.84E-08 | 5.97E-07 |
| | | | 4.62E-09 | 6.19E-07 | 1.11E-07 | 1.11E-07 | 6.10E-08 | 9.48E-07 |
| | | | 5.17E-08 | 6.93E-07 | 1.24E-07 | 1.24E-07 | 6.82E-08 | 1.06E-09 |
| | | | 5.81E-08 | 7.79E-07 | 1.39E-07 | 1.39E-07 | 7.66E-08 | 1.19E-09 |
| | | | 5.62E-09 | 7.52E-07 | 1.35E-07 | 1.35E-07 | 7.41E-08 | 1.15E-09 |
| | | | 6.87E-08 | 9.21E-08 | 1.65E-09 | 1.66E-08 | 9.06E-09 | 1.41E-07 |
| | | | 3.15E-08 | 1.34E-07 | 2.76E-09 | 2.76E-08 | 1.52E-08 | 2.36E-07 |
| | | | 2.20E-08 | 2.95E-07 | 5.27E-08 | 5.27E-08 | 2.90E-08 | 4.51E-07 |
| | | | 3.13E-08 | 4.20E-07 | 7.32E-08 | 7.32E-08 | 4.13E-08 | 6.42E-07 |
| | | | 2.70E-08 | 4.97E-07 | 8.89E-08 | 8.89E-08 | 4.89E-08 | 7.60E-07 |
| | | | 2.80E-08 | 5.10E-07 | 9.13E-08 | 9.13E-08 | 5.02E-08 | 7.80E-07 |
| | | | 5.66E-09 | 7.59E-08 | 1.36E-08 | 1.36E-08 | 7.47E-09 | 1.16E-07 |
| | | | 4.94E-08 | 6.08E-07 | 1.09E-08 | 1.09E-08 | 5.99E-09 | 9.22E-08 |
| | | | 8.50E-09 | 1.14E-07 | 2.04E-08 | 2.04E-08 | 1.12E-08 | 1.74E-07 |
| | | | 1.44E-08 | 1.94E-07 | 3.46E-08 | 3.46E-08 | 1.90E-08 | 2.96E-07 |
| | | | 2.10E-08 | 2.02E-07 | 9.05E-08 | 5.05E-09 | 2.78E-08 | 4.22E-07 |
| | | | 2.58E-08 | 2.46E-07 | 8.20E-08 | 6.20E-08 | 3.41E-08 | 5.30E-07 |
| | | | 2.77E-08 | 2.72E-07 | 6.65E-08 | 6.65E-08 | 2.66E-08 | 5.69E-07 |
| | | | 4.80E-09 | 6.44E-08 | 1.15E-08 | 1.15E-09 | 8.34E-09 | 9.86E-08 |
| | | | 3.64E-09 | 5.15E-08 | 9.21E-09 | 9.21E-09 | 5.07E-09 | 7.88E-08 |
| | | | 3.58E-09 | 4.77E-08 | 8.54E-09 | 8.54E-09 | 4.69E-09 | 7.30E-08 |
| | | | 6.74E-09 | 9.04E-08 | 1.62E-08 | 1.62E-08 | 8.90E-09 | 1.18E-07 |
| | | | 1.09E-08 | 1.40E-07 | 2.51E-08 | 2.31E-09 | 1.38E-08 | 2.15E-07 |
| | | | 1.28E-08 | 1.71E-07 | 3.07E-08 | 3.07E-08 | 1.69E-08 | 2.62E-07 |
| | | | 1.72E-08 | 2.31E-07 | 4.13E-08 | 4.13E-08 | 2.27E-08 | 3.54E-07 |
| | | | 2.03E-09 | 2.72E-07 | 4.87E-08 | 4.07E-08 | 2.68E-08 | 4.17E-07 |
| | | | 2.65E-09 | 4.90E-08 | 6.77E-09 | 8.77E-09 | 4.82E-08 | 7.50E-08 |
| | | | 2.04E-09 | 4.08E-08 | 7.30E-09 | 7.30E-09 | 4.01E-09 | 6.24E-08 |
| | | | 2.58E-09 | 2.45E-08 | 6.18E-09 | 6.16E-09 | 2.40E-09 | 5.29E-08 |
| | | | 2.43E-09 | 2.26E-08 | 5.83E-09 | 5.82E-09 | 3.20E-09 | 4.98E-08 |
| | | | 2.32E-09 | 2.38E-08 | 6.04E-09 | 6.04E-09 | 2.32E-09 | 5.17E-08 |
| | | | 4.75E-09 | 6.36E-08 | 1.14E-08 | 1.14E-08 | 6.26E-09 | 9.74E-08 |
| | | | 6.56E-09 | 6.79E-08 | 1.57E-09 | 1.57E-09 | 8.66E-09 | 1.25E-07 |
| | | | 8.93E-09 | 1.20E-07 | 2.14E-08 | 2.14E-08 | 1.18E-08 | 1.83E-07 |
| | | | 1.14E-08 | 1.53E-07 | 2.73E-08 | 2.73E-08 | 1.50E-08 | 2.34E-07 |
| | | | 1.22E-08 | 1.77E-07 | 3.17E-08 | 2.17E-08 | 1.74E-08 | 2.71E-07 |
| | | | 2.89E-09 | 2.87E-08 | 6.93E-09 | 6.93E-09 | 2.81E-09 | 5.93E-08 |
| | | | 2.42E-09 | 2.24E-08 | 5.80E-09 | 5.80E-09 | 2.19E-09 | 4.96E-08 |
| | | | 2.06E-09 | 2.76E-08 | 4.94E-09 | 4.94E-09 | 2.71E-09 | 4.22E-08 |
| | | | 1.80E-09 | 2.42E-08 | 4.35E-09 | 4.33E-09 | 2.38E-09 | 2.70E-08 |
| | | | 1.86E-09 | 2.45E-08 | 4.46E-09 | 4.46E-09 | 2.45E-09 | 3.82E-08 |
| | | | 1.92E-09 | 2.58E-06 | 4.61E-09 | 4.61E-09 | 2.54E-09 | 2.94E-08 |
| | | | 3.62E-09 | 4.87E-08 | 8.71E-08 | 6.71E-09 | 4.79E-09 | 7.45E-08 |
| | | | 4.70E-09 | 8.21E-08 | 1.15E-08 | 1.13E-08 | 6.21E-09 | 9.66E-08 |
| | | | 6.02E-09 | 8.07E-09 | 1.44E-08 | 1.44E-08 | 7.94E-09 | 1.24E-07 |
| | | | 7.52E-09 | 1.01E-07 | 1.81E-08 | 1.81E-08 | 9.95E-09 | 1.54E-07 |
| | | | 8.90E-09 | 1.19E-07 | 2.14E-08 | 2.14E-09 | 1.17E-09 | 1.83E-07 |
| | | | 2.40E-09 | 3.22E-08 | 5.78E-09 | 5.76E-09 | 3.17E-08 | 4.95E-08 |
| | | | 2.05E-09 | 2.75E-08 | 4.93E-09 | 4.92E-09 | 2.71E-09 | 4.21E-08 |
| | | | 1.76E-09 | 2.39E-08 | 4.26E-09 | 4.28E-09 | 2.35E-09 | 3.66E-08 |
| | | | 1.37E-09 | 2.10E-08 | 3.76E-09 | 3.76E-09 | 2.07E-09 | 3.22E-08 |
| | | | 1.41E-09 | 1.89E-08 | 3.37E-08 | 3.37E-09 | 1.86E-09 | 2.89E-08 |
| | | | 1.44E-09 | 1.93E-08 | 3.45E-09 | 3.45E-09 | 1.90E-09 | 2.95E-08 |
| | | | 1.47E-09 | 1.97E-08 | 3.53E-09 | 3.52E-09 | 1.94E-09 | 3.02E-08 |
| | | | 1.51E-09 | 2.02E-08 | 3.62E-09 | 3.61E-09 | 1.99E-09 | 3.10E-08 |
| | | | 2.92E-09 | 2.92E-09 | 7.02E-09 | 7.02E-09 | 2.85E-09 | 8.00E-08 |
| | | | 3.27E-08 | 4.38E-08 | 7.85E-09 | 7.85E-09 | 4.32E-09 | 6.71E-08 |
| | | | 4.02E-09 | 5.39E-09 | 9.65E-09 | 9.65E-09 | 5.21E-09 | 8.25E-08 |
| | | | 4.89E-09 | 6.55E-08 | 1.17E-08 | 1.17E-08 | 6.45E-09 | 1.00E-07 |
| | | | 5.85E-09 | 7.84E-08 | 1.40E-08 | 1.40E-08 | 7.72E-09 | 1.20E-07 |
| | | | 2.05E-09 | 2.74E-08 | 4.91E-09 | 4.91E-09 | 2.70E-09 | 4.20E-08 |
| | | | 1.76E-09 | 2.38E-08 | 4.26E-09 | 4.26E-09 | 2.34E-09 | 3.64E-08 |
| | | | 1.56E-09 | 2.09E-08 | 3.75E-09 | 3.75E-09 | 2.06E-09 | 2.20E-08 |
| | | | 1.39E-09 | 1.86E-08 | 3.

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1472 | 259599.12 | 4084753.7 | 6.6905E-09 | 8.94E-08 | 1.56E-08 | 1.56E-08 | 6.70E-09 | 1.36E-07 | 1.02E-09 | 1.38E-08 | 2.44E-09 | 2.44E-09 | 1.34E-09 | 2.08E-09 | 5.52E-10 | 7.37E-09 | 1.08E-09 | 1.06E-09 | 5.37E-10 | 1.06E-08 |
| 1474 | 259608.95 | 4084775.44 | 6.4722E-09 | 6.65E-09 | 1.51E-08 | 1.51E-08 | 8.42E-09 | 1.32E-07 | 9.82E-10 | 1.32E-08 | 2.36E-09 | 2.36E-09 | 1.30E-09 | 2.02E-08 | 5.21E-10 | 7.13E-09 | 1.05E-09 | 1.03E-09 | 5.19E-10 | 1.03E-08 |
| 1475 | 259618.79 | 4084797.18 | 6.2681E-09 | 6.37E-09 | 1.46E-08 | 1.46E-08 | 8.15E-09 | 1.27E-07 | 9.31E-10 | 1.28E-08 | 2.28E-09 | 2.28E-09 | 1.26E-09 | 1.95E-08 | 5.17E-10 | 6.90E-09 | 1.03E-09 | 1.02E-09 | 5.03E-10 | 9.93E-09 |
| 1476 | 259628.82 | 4084818.92 | 6.0695E-09 | 8.11E-08 | 1.42E-08 | 1.42E-08 | 7.89E-08 | 1.25E-07 | 9.21E-10 | 1.24E-08 | 2.21E-09 | 2.21E-09 | 1.22E-09 | 1.89E-08 | 5.00E-10 | 6.68E-09 | 9.84E-10 | 9.84E-10 | 4.87E-10 | 9.64E-09 |
| 1477 | 259636.46 | 4084840.66 | 5.8727E-09 | 7.84E-08 | 1.27E-08 | 1.37E-08 | 7.64E-09 | 1.19E-07 | 8.91E-10 | 1.20E-08 | 2.14E-09 | 2.14E-09 | 1.18E-09 | 1.83E-08 | 4.84E-10 | 6.42E-09 | 9.52E-10 | 9.52E-10 | 4.71E-10 | 9.32E-09 |
| 1478 | 259648.29 | 4084862.4 | 5.6759E-09 | 7.58E-09 | 1.32E-09 | 1.32E-08 | 7.38E-09 | 1.15E-07 | 8.61E-10 | 1.16E-08 | 2.07E-09 | 2.07E-09 | 1.14E-09 | 1.77E-09 | 4.68E-10 | 6.25E-09 | 9.20E-10 | 9.20E-10 | 4.55E-10 | 9.01E-09 |
| 1479 | 258305.28 | 4083623.16 | 2.245E-09 | 3.00E-09 | 5.23E-09 | 5.23E-09 | 2.92E-09 | 4.56E-08 | 3.40E-10 | 4.56E-09 | 8.17E-10 | 8.17E-10 | 4.49E-10 | 6.99E-09 | 1.85E-10 | 2.47E-09 | 3.64E-10 | 3.64E-10 | 1.80E-10 | 3.56E-09 |
| 1480 | 258280.95 | 4083624.16 | 2.1902E-09 | 2.93E-09 | 5.11E-09 | 5.11E-09 | 2.85E-08 | 4.45E-08 | 3.32E-10 | 4.46E-09 | 7.98E-10 | 7.98E-10 | 4.39E-10 | 6.82E-09 | 1.81E-10 | 2.41E-09 | 3.55E-10 | 2.55E-10 | 1.76E-10 | 3.48E-09 |
| 1481 | 258256.62 | 4083625.16 | 2.1392E-09 | 2.86E-09 | 4.99E-09 | 4.99E-09 | 2.76E-09 | 4.25E-08 | 3.25E-10 | 4.35E-09 | 7.79E-10 | 7.79E-10 | 4.28E-10 | 6.66E-09 | 1.76E-10 | 2.36E-09 | 3.47E-10 | 3.47E-10 | 1.72E-10 | 3.40E-09 |
| 1482 | 258232.29 | 4083626.16 | 2.09E-09 | 2.79E-08 | 4.88E-09 | 4.88E-09 | 2.77E-09 | 4.25E-09 | 3.17E-10 | 4.25E-09 | 7.61E-10 | 7.61E-10 | 4.19E-10 | 6.31E-09 | 1.72E-10 | 2.30E-09 | 3.39E-10 | 3.39E-10 | 1.68E-10 | 3.32E-09 |
| 1483 | 258207.95 | 4083627.16 | 2.0408E-09 | 2.73E-08 | 4.76E-09 | 4.78E-09 | 2.65E-09 | 4.15E-08 | 3.10E-10 | 4.13E-09 | 7.43E-10 | 7.45E-10 | 4.09E-10 | 6.36E-09 | 1.68E-10 | 2.25E-09 | 3.31E-10 | 3.31E-10 | 1.64E-10 | 3.24E-09 |
| 1484 | 258182.62 | 4083628.16 | 1.9934E-09 | 2.66E-09 | 4.65E-09 | 4.65E-09 | 2.59E-09 | 4.05E-08 | 3.01E-10 | 4.06E-09 | 7.26E-10 | 7.26E-10 | 2.99E-10 | 6.21E-09 | 1.64E-10 | 2.19E-09 | 3.21E-10 | 2.21E-10 | 1.60E-10 | 3.17E-09 |
| 1485 | 236159.29 | 4083629.16 | 1.946E-09 | 2.60E-08 | 4.54E-09 | 4.54E-09 | 2.53E-09 | 3.96E-08 | 2.95E-10 | 3.96E-09 | 7.09E-10 | 7.05E-10 | 3.90E-10 | 6.06E-09 | 1.60E-10 | 2.14E-09 | 3.11E-10 | 3.15E-10 | 1.56E-10 | 3.09E-09 |
| 1486 | 258134.96 | 4083630.16 | 1.8986E-09 | 2.54E-08 | 4.43E-09 | 4.43E-09 | 2.47E-09 | 3.86E-08 | 2.88E-10 | 3.86E-09 | 6.92E-10 | 6.92E-10 | 2.80E-10 | 5.91E-09 | 1.37E-10 | 2.09E-09 | 3.08E-10 | 2.08E-10 | 1.52E-10 | 3.01E-09 |
| 1487 | 258110.63 | 4083631.16 | 1.8515E-09 | 2.47E-08 | 4.32E-09 | 4.32E-09 | 2.41E-09 | 3.76E-08 | 2.81E-10 | 3.77E-09 | 6.74E-10 | 6.74E-10 | 3.71E-10 | 5.77E-09 | 1.53E-10 | 2.04E-09 | 3.00E-10 | 3.00E-10 | 1.49E-10 | 2.94E-09 |
| 1488 | 258086.29 | 4083632.16 | 1.8057E-09 | 2.41E-08 | 4.21E-09 | 4.21E-09 | 2.35E-09 | 3.87E-09 | 2.74E-10 | 3.87E-09 | 8.58E-10 | 6.58E-10 | 3.62E-10 | 5.63E-09 | 1.49E-10 | 1.99E-09 | 2.91E-10 | 2.95E-10 | 1.45E-10 | 2.87E-09 |
| 1489 | 258061.96 | 4083633.16 | 1.762E-09 | 2.35E-08 | 4.11E-09 | 4.11E-09 | 2.29E-09 | 3.58E-08 | 2.67E-10 | 3.59E-09 | 6.42E-10 | 6.42E-10 | 3.51E-10 | 5.49E-09 | 1.43E-10 | 1.94E-09 | 2.86E-10 | 2.86E-10 | 1.41E-10 | 2.80E-09 |
| 1490 | 258037.62 | 4083634.16 | 1.7183E-09 | 2.30E-08 | 4.01E-09 | 4.01E-09 | 2.25E-09 | 3.49E-08 | 2.61E-10 | 3.50E-09 | 8.26E-10 | 6.26E-10 | 3.44E-10 | 5.35E-09 | 1.42E-10 | 1.89E-09 | 2.78E-10 | 2.78E-10 | 1.38E-10 | 2.73E-09 |
| 1491 | 258013.3 | 4083635.16 | 1.6745E-09 | 2.24E-09 | 3.91E-09 | 3.91E-09 | 2.18E-09 | 3.40E-09 | 2.54E-10 | 3.41E-09 | 6.10E-10 | 6.10E-10 | 3.35E-10 | 5.22E-09 | 1.58E-10 | 1.84E-09 | 2.71E-10 | 2.71E-10 | 1.34E-10 | 2.68E-09 |
| 1492 | 257988.97 | 4083636.16 | 1.6346E-09 | 2.18E-09 | 3.81E-09 | 3.81E-09 | 2.11E-09 | 3.32E-08 | 2.48E-10 | 3.33E-09 | 5.95E-10 | 5.95E-10 | 3.27E-10 | 5.09E-09 | 1.35E-10 | 1.80E-09 | 2.65E-10 | 2.65E-10 | 1.31E-10 | 2.60E-09 |
| 1493 | 257964.64 | 4083637.16 | 1.5944E-09 | 2.13E-08 | 3.72E-09 | 3.72E-09 | 2.07E-08 | 2.24E-08 | 2.42E-10 | 3.24E-09 | 5.81E-10 | 5.81E-10 | 3.19E-10 | 4.97E-09 | 1.31E-10 | 1.76E-09 | 2.58E-10 | 2.58E-10 | 1.28E-10 | 2.53E-09 |
| 1494 | 257940.2 | 4083636.16 | 1.3579E-09 | 2.08E-08 | 3.63E-09 | 3.63E-09 | 2.03E-09 | 3.17E-08 | 2.36E-10 | 3.17E-09 | 5.66E-10 | 5.68E-10 | 3.12E-10 | 4.85E-09 | 1.28E-10 | 1.72E-09 | 2.32E-10 | 2.32E-10 | 1.25E-10 | 2.47E-09 |
| 1495 | 257915.97 | 4083629.16 | 1.5215E-09 | 2.03E-08 | 2.55E-09 | 3.55E-09 | 1.98E-08 | 3.09E-08 | 2.21E-10 | 3.10E-09 | 5.54E-10 | 5.54E-10 | 3.05E-10 | 4.74E-09 | 1.25E-10 | 1.68E-09 | 2.47E-10 | 2.47E-10 | 1.22E-10 | 2.42E-09 |
| 1496 | 257891.64 | 4083640.16 | 1.4868E-09 | 1.99E-08 | 3.47E-09 | 2.47E-09 | 1.93E-09 | 3.01E-08 | 2.28E-10 | 2.03E-09 | 5.42E-10 | 5.42E-10 | 2.98E-10 | 4.63E-09 | 1.25E-10 | 1.64E-09 | 2.41E-10 | 2.41E-10 | 1.19E-10 | 2.36E-09 |
| 1497 | 257687.31 | 4083641.16 | 1.4559E-09 | 1.94E-08 | 3.40E-09 | 3.40E-09 | 1.89E-08 | 2.96E-08 | 2.21E-10 | 2.96E-09 | 5.30E-10 | 5.30E-10 | 2.92E-10 | 4.54E-09 | 1.20E-10 | 1.60E-09 | 2.36E-10 | 2.36E-10 | 1.17E-10 | 2.31E-09 |
| 1498 | 257842.98 | 4083642.16 | 1.4245E-09 | 1.90E-08 | 3.32E-09 | 3.32E-09 | 1.85E-08 | 2.90E-08 | 2.16E-10 | 2.90E-09 | 5.19E-10 | 5.19E-10 | 2.85E-10 | 4.44E-09 | 1.17E-10 | 1.57E-09 | 2.31E-10 | 2.31E-10 | 1.14E-10 | 2.28E-09 |
| 1499 | 257818.64 | 4083643.16 | 1.3976E-09 | 1.67E-09 | 3.26E-09 | 3.26E-09 | 1.82E-08 | 2.84E-08 | 2.12E-10 | 2.84E-09 | 5.09E-10 | 5.09E-10 | 2.80E-10 | 4.35E-09 | 1.15E-10 | 1.54E-09 | 2.27E-10 | 2.27E-10 | 1.12E-10 | 2.22E-09 |
| 1500 | 257794.31 | 4083644.16 | 1.3721E-09 | 1.83E-08 | 3.20E-09 | 3.20E-09 | 1.78E-09 | 2.79E-08 | 2.08E-10 | 2.79E-09 | 5.00E-10 | 5.00E-10 | 2.75E-10 | 4.27E-09 | 1.13E-10 | 1.51E-09 | 2.22E-10 | 2.22E-10 | 1.10E-10 | 2.18E-09 |
| 1501 | 257769.98 | 4083645.16 | 1.3484E-09 | 1.80E-08 | 3.15E-09 | 2.15E-09 | 1.75E-08 | 2.74E-08 | 2.05E-10 | 2.74E-09 | 4.91E-10 | 4.91E-10 | 2.70E-10 | 4.20E-09 | 1.11E-10 | 1.48E-09 | 2.19E-10 | 2.19E-10 | 1.08E-10 | 2.14E-09 |
| 1502 | 257745.65 | 4083646.16 | 1.3247E-09 | 1.77E-08 | 3.09E-09 | 3.09E-09 | 1.72E-09 | 2.69E-08 | 2.01E-10 | 2.70E-09 | 4.83E-10 | 4.83E-10 | 2.65E-10 | 4.13E-09 | 1.09E-10 | 1.46E-09 | 2.15E-10 | 2.15E-10 | 1.06E-10 | 2.10E-09 |
| 1503 | 257721.32 | 4083647.16 | 1.3046E-09 | 1.74E-08 | 3.04E-09 | 3.04E-09 | 1.70E-09 | 2.65E-08 | 1.98E-10 | 2.61E-09 | 4.75E-10 | 4.75E-10 | 2.61E-10 | 4.06E-09 | 1.08E-10 | 1.44E-09 | 2.11E-10 | 2.11E-10 | 1.05E-10 | 2.07E-09 |
| 1504 | 257696.99 | 4083648.16 | 1.2864E-09 | 1.77E-08 | 3.00E-09 | 3.00E-09 | 1.67E-09 | 2.61E-08 | 1.95E-10 | 2.62E-09 | 4.69E-10 | 4.69E-10 | 2.58E-10 | 4.01E-09 | 1.06E-10 | 1.42E-09 | 2.08E-10 | 2.08E-10 | 1.03E-10 | 2.04E-09 |
| 1505 | 257672.65 | 4083649.17 | 1.2682E-09 | 1.69E-08 | 2.96E-09 | 2.96E-09 | 1.65E-08 | 2.58E-08 | 1.92E-10 | 2.58E-09 | 4.62E-10 | 4.62E-10 | 2.54E-10 | 3.95E-09 | 1.05E-10 | 1.40E-09 | 2.06E-10 | 2.06E-10 | 1.02E-10 | 2.01E-09 |
| 1506 | 257648.32 | 4083650.17 | 1.2518E-09 | 1.67E-08 | 2.92E-09 | 2.92E-09 | 1.63E-09 | 2.54E-08 | 1.90E-10 | 2.35E-09 | 4.56E-10 | 4.56E-10 | 2.51E-10 | 3.90E-09 | 1.03E-10 | 1.38E-09 | 2.03E-10 | 2.03E-10 | 1.00E-10 | 1.99E-09 |
| 1507 | 257623.99 | 4083651.17 | 1.2354E-09 | 1.65E-08 | 2.88E-09 | 2.88E-09 | 1.61E-09 | 2.51E-08 | 1.87E-10 | 2.51E-09 | 4.50E-10 | 4.50E-10 | 2.47E-10 | 3.85E-09 | 1.02E-10 | 1.36E-09 | 2.00E-10 | 2.00E-10 | 9.91E-11 | 1.96E-09 |
| 1508 | 257599.66 | 4083652.17 | 1.2208E-09 | 1.63E-09 | 2.85E-09 | 2.62E-09 | 1.59E-09 | 2.48E-08 | 1.85E-10 | 2.48E-09 | 4.43E-10 | 4.43E-10 | 2.44E-10 | 3.80E-09 | 1.01E-10 | 1.34E-09 | 1.98E-10 | 1.98E-10 | 9.79E-11 | 1.94E-09 |
| 1509 | 257575.33 | 4083653.17 | 1.2062E-09 | 1.61E-08 | 2.81E-09 | 2.81E-09 | 1.37E-09 | 2.43E-08 | 1.83E-10 | 2.45E-09 | 4.29E-10 | 4.39E-10 | 2.42E-10 | 3.76E-09 | 9.94E-11 | 1.23E-09 | 1.95E-10 | 1.95E-10 | 9.68E-11 | 1.92E-09 |
| 1510 | 257550.99 | 4083654.17 | 1.1917E-09 | 1.59E-08 | 2.78E-09 | 2.78E-09 | 1.35E-09 | 2.42E-08 | 1.81E-10 | 2.43E-09 | 4.34E-10 | 4.34E-10 | 2.39E-10 | 3.71E-09 | 9.62E-11 | 1.21E-09 | 1.91E-10 | 1.91E-10 | 9.56E-11 | 1.89E-09 |
| 1511 | 257526.66 | 4083655.17 | 1.1789E-09 | 1.57E-09 | 2.75E-09 | 2.75E-09 | 1.55E-09 | 2.40E-08 | 1.79E-10 | 2.40E-09 | 4.29E-10 | 4.29E-10 | 2.36E-10 | 3.67E-09 | 9.72E-11 | 1.30E-09 | 1.91E-10 | 1.91E-10 | 9.46E-11 | 1.67E-09 |
| 1512 | 257502.33 | 4083656.17 | 1.1643E-09 | 1.56E-09 | 2.72E-09 | 2.72E-09 | 1.51E-09 | 2.37E-08 | 1.77E-10 | 2.37E-09 | 4.24E-10 | 4.24E-10 | 2.33E-10 | 3.63E-09 | 9.60E-11 | 1.28E-08 | 1.89E-10 | 1.89E-10 | 9.34E-11 | 1.85E-09 |
| 1513 | 258319.66 | 4083431.69 | 1.7183E-09 | 2.30E-08 | 4.01E-09 | 4.01E-09 | 2.23E-09 | 2.49E-08 | 2.61E-10 | 3.50E-09 | 6.26E-10 | 6.26E-10 | 3.44E-10 | 5.23E-09 | 1.42E-10 | 1.89E-09 | 2.78E-10 | 2.78E-10 | 1.38E-10 | 2.73E-09 |
| 1514 | 258342.25 | 4083440.05 | 1.7747E-09 | 2.37E-08 | 4.14E-09 | 4.14E-09 | 2.31E-09 | 3.61E-08 | 2.69E-10 | 3.61E-09 | 6.46E-10 | 6.46E-10 | 3.55E-10 | 5.51E-09 | 1.46E-10 | 1.95E-09 | 2.88E-10 | 2.88E-10 | 1.42E-10 | 2.62E-09 |
| 1515 | 258364.64 | 4083448.42 | 1.833E-09 | 2.45E-08 | 4.28E-09 | 4.28E-09 | 2.38E-09 | 3.73E-08 | 2.78E-10 | 2.73E-09 | 6.68E-10 | 6.68E-10 | 3.67E-10 | 5.71E-09 | 1.31E-10 | 2.02E-09 | 2.97E-10 | 2.97E-10 | 1.47E-10 | 2.91E-09 |
| 1516 | 258367.43 | 4083456.78 | 1.895E-09 | 2.53E-08 | 4.42E-09 | 4.42E-09 | 2.46E-09 | 3.85E-08 | 2.88E-10 | 3.86E-09 | 6.90E-10 | 6.90E-10 | 3.80E-10 | 5.90E-09 | 1.56E-10 | 2.09E-09 | 3.07E-10 | 3.07E-10 | 1.32E-10 | 3.01E-09 |
| 1517 | 258410.02 | 4083465.15 | 1.9606E-09 | 2.62E-08 | 4.37E-09 | 4.57E-09 | 2.35E-09 | 3.98E-08 | 2.98E-10 | 2.99E-09 | 7.14E-10 | 7.14E-10 | 3.95E-10 | 6.11E-09 | 1.62E-10 | 2.16E-09 | 3.18E-10 | 3.18E-10 | 1.37E-10 | 3.11E-09 |
| 1518 | 258432.61 | 4083472.51 | 2.0317E-09 | 2.71E-08 | 4.74E-09 | 4.74E-09 | 2.64E-09 | 4.13E-08 | 3.08E-10 | 4.13E-09 | 7.40E-10 | 7.40E-10 | 4.07E-10 | 6.33E-09 | 1.67E-10 | 2.24E-09 | 3.29E-10 | 3.29E-10 | 1.65E-10 | 3.23E-09 |
| 1519 | 258455.2 | 4083481.87 | 2.1045E-09 | 2.81E-08 | 4.91E-09 | 4.91E-09 | 2.74E-09 | 4.28E-08 | 3.19E-10 | 4.28E-09 | 7.67E-10 | 7.67E-10 | 4.21E-10 | 6.56E-09 | 1.73E-10 | 2.32E-09 | 3.41E-10 | 3.41E-10 | 1.69E-10 | 3.34E-09 |
| 1520 | 258477.79 | 4083490.24 | 2.1829E-09 | 2.92E-08 | 5.09E-09 | 5.06E-09 | 2.84E-09 | 4.44E-09 | 3.21E-10 | 4.44E-09 | 7.95E-10 | 7.95E-10 | 4.37E-10 | 6.80E-09 | 1.80E-10 | 2.40E-09 | 3.54E-10 | 3.54E-10 | 1.75E-10 | 3.47E-09 |
| 1521 | 258500.38 | 4083498.6 | 2.2649E-08 | 3.05E-08 | 5.28E-09 | 5.28E-09 | 2.95E-08 | 4.60E-08 | 3.44E-10 | 4.61E-09 | 8.25E-10 | 8.25E-10 | 4.54E-10 | 7.06E-09 | 1.87E-10 | 2.49E-09 | 3.67E-10 | 3.67E-10 | 1.82E-10 | 3.60E-09 |
| 1522 | 258522.97 | 4083506.97 | 2.2542E-09 | 3.14E-08 | 5.49E-09 | 5.49E-09 | 3.06E-09 | 4.76E-08 | 3.57E-10 | 4.79E-09 | 6.58E-10 | 6.58E-10 | 4.71E-10 | 7.33E-09 | 1.94E-10 | 2.59E-09 | 3.82E-10 | 3.82E-10 | 1.89E-10 | 3.74E-09 |
| 1523 | 258545.57 | 4083515.33 | 2.2489E-09 | 3.27E-08 | 5.71E-09 | 5.71E-09 | 3.19E-09 | 4.98E-08 | 3.72E-10 | 4.96E-09 | 6.92E-10 | 8.97E-10 | 4.90E-10 | 7.63E-09 | 2.02E-10 | 2.70E-09 | 3.97E-10 | 2.97E-10 | 1.96E-10 | 3.89E-09 |
| 1524 | 258568.16 | 4083523.69 | 2.5491E-09 | 3.41E-08 | 5.95E-09 | 5.95E-09 | 2.32E-09 | 5.18E-08 | 3.87E-10 | 5.19E-09 | 9.29E-10 | 9.29E-10 | 5.11E-10 | 7.94E-09 | 2.10E-10 | 2.81E-09 | 4.15E-10 | 4.11E-10 | 2.05E-10 | 4.05E-09 |
| 1525 | 258590.75 | 4083532.06 | 2.6566E-09 | 3.55E-08 | 6.20E-09 | 6.20E-09 | 3.46E-09 | 5.40E-08 | 4.02E-10 | 5.41E-09 | 9.68E-10 | 9.68E-10 | 5.32E-10 | 8.28E-09 | 2.19E-10 | 2.93E-09 | 4.31E-10 | 4.31E-10 | 2.13E-10 | 4.22E-09 |
| 1526 | 258612.34 | 4083540.42 | 2.7714E-09 | 3.70E-08 | 6.47E-09 | 6.47E-09 | 3.60E-09 | 5.63E-09 | 4.21E-10 | 5.64E-09 | 1.01E-09 | 1.01E-09 | 5.35E-10 | 6.63E-09 | 2.28E-10 | 3.05E-09 | 4.49E-10 | 4.49E-10 | 2.22E-10 | 4.40E-09 |
| 1527 | 258635.93 | 4083548.79 | 2.8935E-09 | 3.87E-08 | 6.75E-09 | 6.75E-09 | 3.76E-09 | 5.88E-08 | 4.39E-10 | 5.89E-09 | 1.05E-09 | 1.05E-09 | 5.29E-10 | 9.01E-09 | 2.39E-10 | 3.19E-09 | 4.69E-10 | 4.69E-10 | 2.32E-10 | 4.59E-09 |
| 1528 | 258658.52 | 4083557.15 | 3.0247E-09 | 4.04E-08 | 7.06E-09 | 7.06E-09 | 3.95E-09 | 6.15E-08 | 4.59E-10 | 6.16E-09 | 1.10E-09 | 1.10E-09 | 6.06e-10 | 9.42E-09 | 2.49E-10 | 3.21E-09 | 4.90E-10 | 4.90E-10 | 2.43E-10 | 4.80E-09 |
| 1529 | 258681.11 | 4083565.51 | 3.1622E-09 | 4.23E-08 | 7.38E-09 | 7.38E-09 | 4.11E-09 | 6.43E-08 | 4.80E-10 | 8.44E-09 | 1.15E-09 | 1.15E-09 | 6.33E-10 | 9.85E-09 | 2.61E-10 | 3.42E-09 | 5.13E-10 | 5.13E-10 | 2.54E-10 | 5.02E-09 |
| 1530 | 256703.7 | 4083573.86 | 3.3071E-09 | 4.42E-08 | 7.72E-09 | 7.72E-09 | 4.30E-09 | 6.72E-09 | 5.02E-10 | 6.75E-09 | 1.20E-09 | 1.20E-09 | 6.62E-10 | 1.03E-08 | 2.77E-10 | 3.64E-09 | 5.36E-10 | 5.36E-10 | 2.65E-10 | 5.25E-09 |
| 1531 | 258726.29 | 4083582.24 | 3.4602E-09 | 4.62E-08 | 8.07E-09 | 8.07E-09 | 4.50E-09 | 7.03E-08 | 5.25E-10 | 7.04E-09 | 1.26E-09 | 1.28E-09 | 6.91E-10 | 1.08E-08 | 2.85E-10 | 3.81E-09 | 5.61E-10 | 5.61E-10 | 2.78E-10 | 5.49E-09 |
| 1532 | 258748.88 | 4083590.61 | 3.6187E-09 | 4.83E-08 | 8.44E-08 | 8.44E-09 | 4.71E-09 | 7.35E-09 | 5.49E-10 | 7.36E-09 | 1.32E-09 | 1.22E-09 | 7.25E-10 | 1.13E-08 | 2.98E-10 | 3.96E-09 | 5.86E-10 | 5.86E-10 | 2.90E-10 | 5.75E-09 |
| 1533 | 256771.48 | 4083598.97 | 3.7827E-09 | 5.05E-08 | 8.83E-09 | 8.83E-09 | 4.92E-09 | 7.69E-08 | 5.74E-10 | 7.70E-09 | 1.38E-09 | 1.38E-09 | 7.56E-10 | 1.18E-08 | 3.12E-10 | 4.18E-09 | 6.13E-10 | 6.13E-10 | 3.03E-10 | 6.01E-09 |
| 1534 | 258794.07 | 4083607.33 | 3.954E-09 | 5.28E-08 | 9.22E-08 | 9.22E-09 | 5.14E-09 | 8.04E-08 | 6.00E-10 | 6.05E-09 | 1.44E-09 | 1.44E-09 | 7.92E-10 | 1.23E-08 | 3.26E-10 | 4.35E-09 | 6.41E-10 | 6.41E-10 | 3.17E-10 | 6.28E-09 |
| 1535 | 258816.66 | 4083615.7 | 4.1307E-09 | 5.52E-08 | 9.64E-09 | 9.64E-09 | 5.37E-09 | 8.40E-08 | 6.27E-10 | 8.41E-09 | 1.50E-09 | 1.50E-09 | 6.27E-10 | 1.29E-08 | 3.40E-10 | 4.35E-09 | 6.69E-10 | 6.69E-10 | 3.31E-10 | 6.56E-09 |
| 1536 | 258839.25 | 4083624.06 | 4.3129E-09 | 5.76E-08 | 1.01E-08 | 1.01E-08 | 5.61E-09 | 8.77E-09 | 6.35E-10 | 8.78E-09 | 1.57E-09 | 1.57E-09 | 6.64E-10 | 1.34E-08 | 3.56E-10 | 4.75E-09 | 6.99E-10 | 6.99E-10 | 3.46E-10 | 6.85E-09 |
| 1537 | 258861.84 | 4083632.43 | 4.4966E-09 | 6.01E-08 | 1.05E-08 | 1.05E-08 | 5.85E-09 | 9.14E-08 | 6.63E-10 | 9.15E-09 | 1.64E-09 | 1.64E-09 | 9.01E-10 | 1.40E-08 | 3.71E-10 | 4.95E-09 | 7.29E-10 | 7.29E-10 | 3.61E-10 | 7.14E-09 |
| 1538 | 258884.43 | 4083640.79 | 4.6901E-09 | 6.26E-08 | 1.09E-08 | 1.09E-08 | 6.10E-09 | 9.53E-08 | 7.12E-10 | 9.54E-09 | 1.71E-09 | 1.71E-09 | 9.39E-10 | 1.46E-08 | 3.87E-10 | 5.16E-09 | 7.60E-10 | 7.60E-10 | 2.78E-10 | 7.43E-09 |
| 1539 | 258907.02 | 4083649.15 | 4.8851E-09 | 6.31E-08 | 1.14E-08 | 1.14E-08 | 6.35E-09 | 9.93E-08 | 7.41E-10 | 9.94E-09 | 1.78E-09 | 1.78E-09 | 9.78E-10 | 1.52E-08 | 4.03E-10 | 5.38E-09 | 7.92E-10 | 7.92E-10 | 3.92E-10 | 7.76E-09 |
| 1540 | 258929.61 | 4083657.32 | 5.0855E-09 | 6.79E-08 | 1.19E-08 | 1.19E-08 | 6.82E-09 | 1.03E-07 | 7.72E-10 | 1.03E-08 | 1.65E-09 | 1.89E-09 | 1.02E-09 | 1.58E-08 | 4.19E-10 | 5.60E-09 | 8.24E-10 | 8.24E-10 | 4.08E-10 | 8.08E-09 |
| 1541 | 258952.2 | 4083665.68 | 5.2878E-09 | 7.06E-08 | 1.23E-08 | 1.23E-08 | 6.88E-09 | 1.07E-07 | 8.03E-10 | 1.08E-08 | 1.91E-09 | 1.95E-09 | 1.06E-09 | 1.65E-08 | 4.56E-10 | 5.82E-09 | 8.57E-10 | 8.57E-10 | 4.24E-10 | 8.40E-09 |
| 1542 | 258974.79 | 4083674.25 | 5.4937E-09 | 7.56E-08 | 1.28E-08 | 1.28E-08 | 7.15E-09 | 1.12E-07 | 6.34E-10 | 1.12E-08 | 2.00E-09 | 2.00E-09 | 1.10E-09 | 1.71E-09 | 4.53E-10 | 6.05E-09 | 8.90E-10 | 8.90E-10 | 4.41E-10 | 8.77E-09 |
| 1543 | 258997.38 | 4083682.61 | 5.7014E-09 | 7.62E-08 | 1.33E-08 | 1.33E-08 | 7.42E-09 | 1.16E-07 | 6.65E-10 | 1.16E-08 | 2.08E-09 | 2.08E-09 | 1.14E-09 | 1.76E-09 | 4.70E-10 | 6.28E-09 | 9.24E-10 | 9.24E-10 | 4.57E-10 | 9.05E-09 |
| 1544 | 259019.98 | 4083690.97 | 5.9109E-09 | 7.90E-08 | 1.38E-08 | 1.38E-08 | 7.69E-09 | 1.20E-07 | 8.97E-10 | 1.20E-08 | 2.15E-09 | 2.15E-09 | 1.18E-09 | 1.64E-08 | 4.87E-10 | 6.51E-09 | 9.58E-10 | 9.58E-10 | 4.74E-10 | 9.39E-09 |
| 1545 | 259042.57 | 4083699.34 | 6.1205E-09 | 8.18E-08 | 1.43E-08 | 1.43E-08 | 7.96E-09 | 1.24E-07 | 9.29E-10 | 1.25E-08 | 2.25E-09 | 2.23E-09 | 1.23E-09 | 1.91E-08 | 5.05E-10 | 6.74E-09 | 9.92E-10 | 9.92E-10 | 4.91E-10 | 9.72E-09 |
| 1546 | 259065.16 | 4083707.7 | 6.2262E-09 | 8.45E-08 | 1.48E-08 | 1.46E-08 | 6.23E-09 | 1.29E-07 | 9.60E-10 | 1.29E-08 | 2.31E-09 | 2.31E-09 | 1.77E-09 | 1.97E-08 | 5.22E-10 | 6.97E-09 | 1.03E-09 | 1.02E-09 | 5.08E-10 | 1.00E-08 |
| 1547 | 259087.75 | 4083716.07 | 6.5241E-09 | 8.73E-08 | 1.52E-08 | 1.37E-08 | 6.50E-09 | 1.23E-07 | 9.92E-10 | 1.33E-08 | 2.56E-09 | 2.38E-08 | 1.31E-09 | 2.04E-08 | 5.39E-10 | 7.19E-09 | 1.06E-09 | 1.06E-09 | 5.24E-10 | 1.04E-08 |
| 1548 | 259110.34 | 4083774.43 | 6.7382E-09 | 9.00E-08 | 1.57E-08 | 1.57E-08 | 6.78E-09 | 1.27E-07 | 1.02E-09 | 1.27E-08 | 2.45E-09 | 2.45E-09 | 1.35E-09 | 2.10E-08 | 5.55E-10 | 7.47E-09 | 1.09E-09 | 1.09E-09 | 5.41E-10 | 1.07E-08 |
| 1549 | 259122.92 | 4083732.79 | 6.9368E-09 | 9.27E-08 | 1.62E-08 | 1.62E-08 | 9.02E-09 | 1.41E-07 | 1.05E-09 | 1.41E-09 | 2.53E-09 | 2.53E-09 | 1.39E-09 | 2.18E-09 | 5.72E-10 | 7.64E-09 | 1.12E-09 | 1.12E-09 | 5.57E-10 | 1.10E-08 |
| 1550 | 259155.52 | 4083741.16 | 7.1281E-09 | 9.52E-08 | 1.66E-08 | 1.66E-08 | 9.27E-09 | 1.45E-07 | 1.08E-09 | 1.45E-08 | 2.60E-09 | 2.60E-09 | 1.43E-09 | 2.22E-08 | 5.88E-10 | 7.85E-09 | 1.16E-09 | 1.16E-09 | 5.72E-10 | 1.13E-09 |
| 1551 | 259178.11 | 4083749.32 | 7.3121E-09 | 9.77E-08 | 1.71E-08 | 1.71E-08 | 9.51E-09 | 1.49E-07 | 1.11E-09 | 1.49E-08 | 2.66E-09 | 2.66E-09 | 1.46E-09 | 2.28E-08 | 6.03E-10 | 8.05E-09 | 1.19E-09 | 1.19E-09 | 5.87E-10 | 1.18E-08 |
| 1552 | 259200.7 | 4083757.89 | 7.4871E-09 | 1.00E-07 | 1.75E-09 | 1.75E-08 | 9.74E-09 | 1.52E-07 | 1.14E-09 | 1.52E-08 | 2.71E-09 | 2.75E-09 | 1.50E-09 | 2.35E-08 | 6.17E-10 | 8.24E-09 | 1.21E-09 | 1.21E-09 | 6.01E-10 | 1.19E-09 |
| 1553 | 259223.29 | 4083766.25 | 7.6492E-09 | 1.07E-07 | 1.78E-08 | 1.78E-08 | 9.95E-09 | 1.55E-07 | 1.16E-09 | 1.56E-08 | 2.79E-09 | 2.79E-09 | 1.53E-09 | 2.38E-08 | 6.31E-10 | 8.42E-09 | 1.24E-09 | 1.24E-09 | 6.14E-10 | 1.21E-09 |
| 1554 | 259245.88 | 4083774.61 | 7.8005E-09 | 1.04E-07 | 1.82E-08 | 1.82E-08 | 1.01E-08 | 1.39E-07 | 1.18E-09 | 1.59E-08 | 2.84E-09 | 2.84E-09 | 1.56E-09 | 2.43E-08 | 6.43E-10 | 8.59E-09 | 1.26E-09 | 1.26E-09 | 6.26E-10 | 1.24E-09 |
| 1555 | 259268.48 | 4083782.98 | 7.9355E-09 | 1.06E-07 | 1.85E-08 | 1.85E-08 | 1.03E-08 | 1.61E-07 | 1.20E-09 | 1.61E-08 | 2.89E-09 | 2.89E-09 | 1.59E-09 | 2.47E-08 | 6.54E-10 | 8.74E-09 | 1.29E-09 | 1.29E-09 | 6.37E-10 | 1.28E-09 |
| 1558 | 259291.07 | 4083791.34 | 8.0592E-09 | 1.08E-07 | 1.88E-08 | 1.88E-08 | 1.05E-08 | 1.64E-07 | 1.22E-09 | 1.64E-08 | 2.94E-09 | 2.94E-09 | 1.61E-09 | 2.51E-08 | 6.64E-10 | 8.87E-09 | 1.31E-09 | 1.31E-09 | 6.47E-10 | 1.28E-08 |
| 1557 | 259313.66 | 4083799.71 | 8.1667E-09 | 1.09E-07 | 1.91E-09 | 1.91E-08 | 1.06E-09 | 1.66E-07 | 1.24E-09 | 1.66E-08 | 2.97E-09 | 2.97E-09 | 1.64E-09 | 2.54E-08 | 8.73E-10 | 8.99E-09 | 1.32E-09 | 1.32E-09 | 8.35E-10 | 1.30E-09 |
| 1558 | 259336.25 | 4083808.07 | 8.2596E-09 | 1.10E-07 | 1.91E-09 | 1.93E-08 | 1.07E-09 | 1.68E-07 | 1.25E-09 | 1.66E-08 | 3.01E-09 | 3.01E-09 | 1.65E-09 | 2.37E-08 | 6.81E-10 | 9.09E-09 | 1.34E-09

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1350 | 259328.39 | 4084603.02 | 1.20E-08 | 1.61E-07 | 2.50E-08 | 2.50E-08 | 1.56E-08 | 2.44E-07 | 1.12E-09 | 2.45E-08 | 4.38E-09 | 4.56E-09 | 2.41E-09 | 2.74E-09 | 9.91E-10 | 1.32E-08 | 1.95E-09 | 1.95E-09 | 9.64E-10 | 1.91E-08 |
| 1351 | 259336.38 | 4084625.09 | 1.16E-08 | 1.55E-07 | 2.71E-08 | 2.71E-08 | 1.31E-08 | 2.36E-07 | 1.76E-09 | 2.36E-08 | 4.23E-09 | 4.23E-09 | 2.32E-09 | 2.61E-08 | 9.56E-10 | 1.26E-08 | 1.88E-09 | 1.88E-09 | 9.31E-10 | 1.84E-08 |
| 1352 | 259348.36 | 4084647.16 | 1.11666-08 | 1.49E-07 | 2.61E-08 | 2.61E-08 | 1.45E-08 | 2.27E-07 | 1.69E-09 | 2.27E-08 | 4.07E-09 | 4.07E-09 | 2.24E-09 | 2.48E-08 | 9.20E-10 | 1.23E-08 | 1.81E-09 | 1.81E-09 | 8.96E-10 | 1.77E-08 |
| 1252 | 259358.35 | 4084669.24 | 1.072E-08 | 1.42E-07 | 2.50E-08 | 2.50E-08 | 1.39E-08 | 2.18E-07 | 1.62E-09 | 2.18E-08 | 2.90E-09 | 3.90E-09 | 2.15E-09 | 3.34E-08 | 0.84E-10 | 1.18E-08 | 1.74E-09 | 1.74E-09 | 0.80E-10 | 1.70E-08 |
| 1354 | 259368.34 | 4084691.31 | 1.0269E-08 | 1.37E-07 | 2.40E-08 | 2.40E-08 | 1.34E-08 | 2.09E-07 | 1.56E-09 | 2.09E-08 | 2.74E-09 | 3.74E-09 | 2.06E-09 | 2.20E-08 | 0.46E-10 | 1.15E-08 | 1.66E-09 | 1.66E-09 | 6.24E-10 | 1.63E-08 |
| 1295 | 259278.32 | 4084712.38 | 9.8267E-09 | 1.31E-07 | 2.29E-08 | 2.29E-08 | 1.26E-08 | 2.00E-07 | 1.49E-09 | 2.00E-08 | 3.56E-09 | 3.58E-09 | 1.97E-09 | 2.06E-08 | 8.10E-10 | 1.08E-08 | 1.39E-09 | 1.59E-09 | 7.88E-10 | 1.56E-08 |
| 1356 | 259388.31 | 4084735.46 | 9.3985E-08 | 1.26E-07 | 2.19E-08 | 2.19E-08 | 1.22E-08 | 1.91E-07 | 1.43E-09 | 1.91E-09 | 2.42E-09 | 3.41E-08 | 1.88E-09 | 2.91E-08 | 7.75E-10 | 1.01E-09 | 1.52E-09 | 1.52E-09 | 7.54E-10 | 1.49E-08 |
| 1257 | 259298.29 | 4084757.53 | 8.9921E-09 | 1.20E-07 | 2.10E-08 | 2.10E-08 | 1.17E-08 | 1.82E-07 | 1.36E-09 | 1.83E-09 | 2.26E-09 | 3.26E-09 | 1.80E-09 | 2.80E-08 | 7.41E-10 | 9.90E-09 | 1.46E-09 | 1.46E-09 | 7.21E-10 | 1.41E-08 |
| 1358 | 259408.20 | 4084779.6 | 8.6131E-09 | 1.15E-07 | 2.01E-08 | 2.01E-08 | 1.12E-08 | 1.75E-07 | 1.31E-09 | 1.75E-09 | 2.14E-09 | 3.14E-09 | 1.72E-09 | 2.68E-08 | 7.10E-10 | 9.46E-09 | 1.40E-09 | 1.40E-09 | 6.91E-10 | 1.37E-08 |
| 1259 | 259418.27 | 4084801.88 | 8.2615E-09 | 1.10E-07 | 1.93E-08 | 1.93E-08 | 1.07E-08 | 1.66E-07 | 1.25E-09 | 1.68E-08 | 2.01E-09 | 2.01E-09 | 1.65E-09 | 2.57E-08 | 0.81E-10 | 9.10E-09 | 1.34E-09 | 1.34E-09 | 6.63E-10 | 1.31E-08 |
| 1360 | 259428.25 | 4084823.75 | 7.9298E-09 | 1.05E-07 | 1.85E-08 | 1.85E-08 | 1.03E-08 | 1.61E-07 | 1.20E-09 | 1.61E-08 | 2.89E-09 | 2.89E-09 | 1.59E-09 | 2.47E-08 | 6.54E-10 | 8.75E-09 | 1.29E-09 | 1.29E-09 | 6.36E-10 | 1.26E-08 |
| 1361 | 259438.24 | 4084845.62 | 7.0146E-09 | 1.02E-07 | 1.78E-08 | 1.78E-08 | 9.90E-09 | 1.55E-07 | 1.16E-09 | 1.35E-08 | 2.77E-09 | 2.77E-09 | 1.52E-09 | 2.37E-08 | 0.26E-10 | 8.38E-09 | 1.23E-09 | 1.23E-09 | 6.11E-10 | 1.21E-08 |
| 1362 | 259448.23 | 4084867.9 | 7.3085E-09 | 9.76E-08 | 1.71E-08 | 1.71E-08 | 9.31E-09 | 1.49E-07 | 1.11E-09 | 1.49E-08 | 2.66E-09 | 2.66E-09 | 1.46E-09 | 2.28E-08 | 0.02E-10 | 8.05E-09 | 1.18E-09 | 1.18E-09 | 5.86E-10 | 1.16E-08 |
| 1363 | 258312.5 | 4083822.99 | 3.2762E-09 | 4.38E-08 | 7.84E-09 | 7.84E-09 | 4.26E-09 | 6.66E-08 | 4.97E-10 | 6.67E-09 | 1.19E-09 | 1.19E-09 | 6.56E-10 | 1.02E-08 | 2.70E-10 | 3.61E-09 | 5.31E-10 | 5.31E-10 | 2.63E-10 | 5.70E-09 |
| 1364 | 258209.16 | 4083823.99 | 2.1796E-09 | 4.15E-08 | 7.42E-09 | 7.42E-09 | 4.14E-09 | 6.46E-08 | 4.85E-10 | 6.47E-09 | 1.16E-09 | 1.16E-09 | 6.37E-10 | 9.91E-09 | 2.02E-10 | 3.50E-09 | 5.15E-10 | 5.15E-10 | 2.55E-10 | 5.05E-09 |
| 1365 | 258264.83 | 4083824.99 | 3.0867E-09 | 4.12E-08 | 7.20E-09 | 7.20E-09 | 4.01E-09 | 6.27E-08 | 4.68E-10 | 6.26E-09 | 1.12E-09 | 1.12E-09 | 6.18E-10 | 9.62E-09 | 2.54E-10 | 3.40E-09 | 5.00E-10 | 5.00E-10 | 2.48E-10 | 4.90E-09 |
| 1366 | 258240.5 | 4083825.99 | 2.9974E-09 | 4.00E-08 | 6.99E-09 | 6.99E-09 | 3.90E-09 | 6.09E-08 | 4.55E-10 | 6.10E-09 | 1.09E-09 | 1.09E-09 | 6.00E-10 | 9.34E-09 | 2.47E-10 | 3.30E-09 | 4.86E-10 | 4.86E-10 | 2.40E-10 | 4.76E-09 |
| 1367 | 258210.17 | 4083826.99 | 2.9099E-09 | 3.89E-08 | 0.79E-09 | 6.79E-09 | 3.79E-09 | 5.91E-08 | 4.42E-10 | 5.92E-09 | 1.06E-09 | 1.06E-09 | 5.83E-10 | 9.07E-09 | 2.40E-10 | 3.20E-09 | 4.72E-10 | 4.77E-10 | 2.31E-10 | 4.62E-09 |
| 1368 | 258191.84 | 4083827.99 | 2.8225E-09 | 3.77E-08 | 6.58E-09 | 6.56E-09 | 3.67E-09 | 5.74E-08 | 4.28E-10 | 5.74E-09 | 1.83E-09 | 1.03E-09 | 9.65E-10 | 6.79E-09 | 2.33E-10 | 3.11E-09 | 4.57E-10 | 4.37E-10 | 2.26E-10 | 4.48E-09 |
| 1369 | 258107.51 | 4083828.99 | 2.7386E-09 | 3.66E-08 | 6.39E-09 | 6.39E-09 | 3.56E-09 | 5.57E-08 | 4.18E-10 | 5.57E-09 | 9.98E-10 | 9.98E-10 | 5.48E-10 | 8.52E-09 | 2.26E-10 | 2.02E-09 | 4.44E-10 | 4.44E-10 | 2.20E-10 | 4.35E-09 |
| 1270 | 258142.17 | 4083829.99 | 2.6548E-09 | 3.53E-08 | 6.19E-09 | 6.19E-09 | 3.45E-09 | 5.40E-08 | 4.03E-10 | 5.40E-09 | 9.07E-10 | 9.67E-10 | 5.32E-10 | 8.27E-09 | 2.19E-10 | 2.92E-09 | 4.30E-10 | 4.30E-10 | 2.13E-10 | 4.22E-09 |
| 1271 | 258118.84 | 4083830.99 | 2.5726E-09 | 3.44E-08 | 6.00E-09 | 6.00E-09 | 3.35E-09 | 5.22E-08 | 3.90E-10 | 5.24E-09 | 9.37E-10 | 9.37E-10 | 5.15E-10 | 8.02E-09 | 2.12E-10 | 2.83E-09 | 4.17E-10 | 4.37E-10 | 2.06E-10 | 4.09E-09 |
| 1272 | 258094.31 | 4083831.99 | 2.4908E-09 | 3.33E-08 | 5.81E-09 | 5.81E-09 | 3.24E-09 | 5.06E-08 | 3.78E-10 | 5.07E-09 | 9.07E-10 | 9.07E-10 | 4.99E-10 | 7.76E-09 | 2.05E-10 | 2.74E-09 | 4.04E-10 | 4.04E-10 | 2.00E-10 | 3.96E-09 |
| 1373 | 258070.18 | 4083832.99 | 2.4125E-09 | 3.22E-08 | 5.63E-09 | 5.83E-09 | 3.14E-09 | 4.90E-08 | 3.66E-10 | 4.91E-09 | 0.79E-10 | 8.79E-10 | 4.83E-10 | 7.52E-09 | 1.99E-10 | 2.66E-09 | 2.91E-10 | 3.91E-10 | 1.94E-10 | 3.83E-09 |
| 1274 | 258045.85 | 4083832.99 | 2.3376E-09 | 3.17E-08 | 5.45E-09 | 5.45E-09 | 2.04E-09 | 4.75E-09 | 2.35E-10 | 4.70E-09 | 6.32E-10 | 8.52E-10 | 4.68E-10 | 7.28E-09 | 1.92E-10 | 2.57E-09 | 2.75E-10 | 3.79E-10 | 1.68E-10 | 3.71E-09 |
| 1375 | 258021.31 | 4083834.99 | 2.2649E-09 | 3.03E-08 | 5.28E-09 | 5.26E-09 | 2.95E-09 | 4.60E-08 | 3.44E-10 | 4.01E-09 | 8.21E-10 | 8.25E-10 | 4.54E-10 | 7.06E-09 | 1.87E-10 | 2.49E-09 | 3.67E-10 | 2.67E-10 | 1.82E-10 | 3.60E-09 |
| 1276 | 257997.38 | 4083835.99 | 2.1956E-09 | 2.91E-08 | 5.11E-09 | 5.12E-09 | 2.88E-09 | 4.46E-08 | 3.33E-10 | 4.47E-09 | 8.00E-10 | 8.00E-10 | 4.40E-10 | 0.84E-09 | 1.81E-10 | 2.42E-09 | 3.56E-10 | 3.56E-10 | 1.76E-10 | 3.49E-09 |
| 1377 | 257972.85 | 4083830.99 | 2.1282E-09 | 2.64E-08 | 4.97E-09 | 4.97E-09 | 2.77E-09 | 4.32E-08 | 3.23E-10 | 4.22E-09 | 7.75E-10 | 7.75E-10 | 4.26E-10 | 6.63E-09 | 1.75E-10 | 2.34E-09 | 3.45E-10 | 3.43E-10 | 1.71E-10 | 3.28E-09 |
| 1270 | 257948.32 | 4083837.99 | 2.0681E-09 | 2.76E-08 | 4.83E-09 | 4.83E-09 | 2.69E-09 | 4.20E-08 | 3.14E-10 | 4.21E-09 | 7.51E-10 | 7.53E-10 | 4.14E-10 | 6.44E-09 | 1.70E-10 | 2.26E-09 | 3.13E-10 | 3.35E-10 | 1.66E-10 | 3.26E-09 |
| 1279 | 257924.19 | 4083838.99 | 2.0098E-09 | 2.88E-08 | 4.69E-09 | 4.69E-09 | 2.61E-09 | 4.08E-08 | 3.05E-10 | 4.09E-09 | 7.32E-10 | 7.32E-10 | 4.02E-10 | 6.28E-09 | 1.86E-10 | 2.21E-09 | 3.26E-10 | 3.26E-10 | 1.01E-10 | 3.19E-09 |
| 1380 | 257899.86 | 4083839.99 | 1.957E-09 | 2.61E-08 | 4.37E-09 | 4.57E-09 | 2.55E-09 | 3.96E-08 | 2.97E-10 | 3.98E-09 | 7.13E-10 | 7.13E-10 | 3.92E-10 | 6.10E-09 | 1.61E-10 | 2.15E-09 | 3.17E-10 | 2.17E-10 | 1.37E-10 | 2.11E-09 |
| 1381 | 257875.52 | 4083840.99 | 1.9059E-09 | 2.55E-08 | 4.45E-09 | 4.45E-09 | 2.48E-09 | 3.87E-08 | 2.89E-10 | 3.88E-09 | 6.94E-10 | 6.94E-10 | 2.82E-10 | 5.94E-09 | 1.57E-10 | 2.10E-09 | 3.09E-10 | 3.09E-10 | 1.52E-10 | 2.03E-09 |
| 1382 | 257851.19 | 4083841.99 | 1.8604E-09 | 2.49E-08 | 4.34E-09 | 4.34E-09 | 2.42E-09 | 3.78E-08 | 2.82E-10 | 3.79E-09 | 6.76E-10 | 6.79E-10 | 2.73E-10 | 5.80E-09 | 1.53E-10 | 2.05E-09 | 3.02E-10 | 3.02E-10 | 1.48E-10 | 2.95E-09 |
| 1383 | 257826.86 | 4083842.99 | 1.8185E-09 | 2.43E-08 | 4.24E-09 | 4.24E-09 | 2.37E-09 | 3.70E-08 | 2.76E-10 | 3.70E-09 | 6.62E-10 | 6.62E-10 | 3.64E-10 | 5.67E-09 | 1.50E-10 | 2.00E-09 | 2.95E-10 | 2.95E-10 | 1.46E-10 | 2.89E-09 |
| 1384 | 257802.52 | 4083843.99 | 1.7602E-09 | 2.56E-08 | 4.15E-09 | 4.15E-09 | 2.31E-09 | 3.61E-08 | 2.70E-10 | 3.62E-09 | 6.48E-10 | 6.48E-10 | 3.37E-10 | 5.51E-09 | 1.47E-10 | 1.96E-09 | 2.69E-10 | 2.89E-10 | 1.43E-10 | 2.61E-09 |
| 1385 | 257778.2 | 4083845 | 1.7456E-09 | 2.33E-08 | 4.07E-09 | 4.07E-09 | 2.27E-09 | 3.55E-08 | 2.65E-10 | 3.55E-09 | 6.36E-10 | 6.36E-10 | 3.50E-10 | 5.44E-09 | 1.44E-10 | 1.92E-09 | 2.83E-10 | 2.83E-10 | 1.40E-10 | 2.77E-09 |
| 1386 | 257753.86 | 4083846 | 1.7148E-09 | 2.29E-08 | 4.00E-09 | 4.00E-09 | 2.23E-09 | 3.48E-08 | 2.60E-10 | 3.49E-09 | 0.25E-10 | 6.23E-10 | 3.43E-10 | 5.34E-09 | 1.41E-10 | 1.89E-09 | 2.78E-10 | 2.76E-10 | 1.38E-10 | 2.73E-09 |
| 1387 | 257729.53 | 4083847 | 1.6855E-09 | 2.25E-08 | 3.93E-09 | 3.93E-09 | 2.19E-09 | 3.43E-08 | 2.56E-10 | 3.43E-09 | 6.14E-10 | 0.14E-10 | 3.38E-10 | 5.25E-09 | 1.39E-10 | 1.86E-09 | 2.73E-10 | 2.73E-10 | 1.35E-10 | 2.68E-09 |
| 1388 | 257705.2 | 4083848 | 1.6581E-09 | 2.21E-08 | 2.87E-09 | 3.87E-09 | 2.16E-09 | 3.37E-08 | 2.52E-10 | 3.57E-09 | 6.04E-10 | 6.04E-10 | 3.32E-10 | 5.17E-09 | 1.37E-10 | 1.81E-09 | 2.69E-10 | 2.69E-10 | 1.33E-10 | 2.63E-09 |
| 1389 | 257680.87 | 4083849 | 1.6344E-09 | 2.18E-08 | 3.81E-09 | 2.81E-09 | 2.15E-09 | 3.32E-08 | 2.48E-10 | 3.33E-09 | 5.95E-10 | 5.95E-10 | 3.27E-10 | 9.09E-09 | 1.35E-10 | 1.80E-09 | 2.65E-10 | 2.65E-10 | 1.31E-10 | 2.60E-09 |
| 1390 | 257656.54 | 4083850 | 1.6107E-09 | 2.15E-08 | 3.70E-09 | 3.76E-09 | 2.10E-09 | 3.27E-08 | 2.44E-10 | 2.26E-09 | 5.87E-10 | 5.87E-10 | 2.13E-10 | 5.02E-09 | 1.33E-10 | 1.77E-09 | 2.61E-10 | 2.61E-10 | 1.29E-10 | 2.56E-09 |
| 1391 | 257632.21 | 4083851 | 1.5907E-09 | 2.13E-08 | 2.71E-09 | 3.71E-09 | 2.07E-09 | 3.23E-08 | 2.41E-10 | 3.24E-09 | 5.79E-10 | 5.79E-10 | 2.19E-10 | 4.96E-09 | 1.31E-10 | 1.75E-09 | 2.58E-10 | 2.56E-10 | 1.26E-10 | 2.33E-09 |
| 1392 | 257607.87 | 4083852 | 1.5685E-09 | 2.10E-08 | 3.66E-09 | 3.66E-09 | 2.04E-09 | 3.19E-08 | 2.36E-10 | 3.19E-09 | 5.77E-10 | 5.72E-10 | 3.14E-10 | 4.69E-09 | 1.29E-10 | 1.75E-09 | 2.54E-10 | 2.54E-10 | 1.26E-10 | 2.49E-09 |
| 1293 | 257583.54 | 4083853 | 1.5488E-09 | 2.07E-08 | 3.61E-09 | 3.61E-09 | 2.01E-09 | 3.15E-08 | 2.35E-10 | 2.13E-09 | 5.64E-10 | 5.64E-10 | 3.10E-10 | 4.83E-09 | 1.28E-10 | 1.71E-09 | 3.51E-10 | 2.51E-10 | 1.24E-10 | 2.46E-09 |
| 1394 | 257559.21 | 4083854 | 1.5282E-09 | 2.04E-08 | 3.57E-09 | 3.57E-09 | 1.99E-09 | 3.11E-09 | 2.32E-10 | 3.11E-09 | 5.37E-10 | 5.37E-10 | 3.06E-10 | 4.76E-09 | 1.26E-10 | 1.68E-09 | 2.48E-10 | 2.48E-10 | 1.22E-10 | 2.41E-09 |
| 1395 | 257534.88 | 4083855 | 1.5069E-09 | 2.01E-08 | 2.52E-09 | 2.52E-09 | 1.96E-09 | 3.06E-08 | 2.29E-10 | 2.07E-09 | 5.49E-10 | 5.49E-10 | 2.02E-10 | 4.69E-09 | 1.24E-10 | 1.66E-09 | 2.44E-10 | 2.44E-10 | 1.21E-10 | 2.39E-09 |
| 1396 | 257510.55 | 4083856 | 1.4868E-09 | 1.99E-08 | 3.47E-09 | 3.47E-09 | 1.93E-09 | 3.02E-08 | 2.26E-10 | 2.03E-09 | 5.42E-10 | 5.42E-10 | 2.98E-10 | 4.63E-09 | 1.23E-10 | 1.64E-09 | 2.41E-10 | 2.41E-10 | 1.19E-10 | 2.26E-09 |
| 1397 | 258327.66 | 4083631.44 | 2.3287E-09 | 3.11E-09 | 5.43E-09 | 5.43E-09 | 3.03E-09 | 4.73E-08 | 3.53E-10 | 4.74E-09 | 6.48E-10 | 6.48E-10 | 4.68E-10 | 7.26E-09 | 1.97E-10 | 2.56E-09 | 2.77E-10 | 3.77E-10 | 1.07E-10 | 2.70E-09 |
| 1398 | 258350.03 | 4083639.73 | 2.4198E-09 | 3.22E-08 | 5.65E-09 | 5.65E-09 | 2.15E-09 | 4.92E-08 | 2.67E-10 | 4.97E-09 | 8.81E-10 | 0.81E-10 | 4.85E-10 | 7.54E-09 | 1.99E-10 | 2.66E-09 | 3.92E-10 | 2.92E-10 | 1.94E-10 | 3.84E-09 |
| 1399 | 258373.41 | 4083648.01 | 2.5103E-09 | 2.36E-08 | 5.87E-09 | 5.87E-09 | 2.27E-09 | 5.11E-08 | 2.62E-10 | 5.17E-09 | 9.17E-10 | 9.17E-10 | 5.04E-10 | 7.84E-09 | 2.07E-10 | 2.77E-09 | 4.08E-10 | 4.08E-10 | 2.02E-10 | 4.00E-09 |
| 1400 | 258394.78 | 4083656.29 | 2.6202E-09 | 3.50E-08 | 6.11E-09 | 6.11E-09 | 2.41E-09 | 5.31E-08 | 2.96E-10 | 5.33E-09 | 9.54E-10 | 9.34E-10 | 5.13E-10 | 8.16E-09 | 2.16E-10 | 2.88E-09 | 4.25E-10 | 4.25E-10 | 2.10E-10 | 4.16E-09 |
| 1401 | 258417.10 | 4083664.58 | 2.7312E-09 | 3.65E-08 | 6.38E-09 | 6.38E-09 | 3.52E-09 | 5.51E-08 | 4.15E-10 | 5.56E-09 | 9.96E-10 | 9.96E-10 | 5.47E-10 | 8.52E-09 | 2.25E-10 | 3.01E-09 | 4.43E-10 | 4.43E-10 | 2.19E-10 | 4.34E-09 |
| 1402 | 258439.54 | 4083672.86 | 2.8534E-09 | 3.81E-08 | 6.66E-09 | 6.66E-09 | 2.71E-09 | 5.80E-08 | 4.32E-10 | 9.61E-09 | 1.04E-09 | 1.04E-09 | 5.73E-10 | 8.89E-09 | 2.13E-10 | 3.14E-09 | 4.62E-10 | 4.62E-10 | 2.29E-10 | 4.53E-09 |
| 1403 | 258461.91 | 4083681.15 | 2.9828E-09 | 3.98E-08 | 6.96E-09 | 6.96E-09 | 3.88E-09 | 0.06E-08 | 4.33E-10 | 6.07E-09 | 1.09E-09 | 1.09E-09 | 5.97E-10 | 9.29E-09 | 2.46E-10 | 2.28E-09 | 4.83E-10 | 4.63E-10 | 2.39E-10 | 4.74E-09 |
| 1404 | 258484.29 | 4083689.42 | 3.1213E-09 | 4.17E-08 | 7.28E-09 | 7.28E-09 | 4.06E-09 | 6.34E-08 | 4.74E-10 | 0.35E-09 | 1.14E-09 | 1.14E-09 | 6.25E-10 | 9.77E-09 | 2.37E-10 | 3.44E-09 | 5.06E-10 | 5.06E-10 | 2.50E-10 | 4.96E-09 |
| 1405 | 258506.66 | 4083697.73 | 2.2725E-09 | 4.27E-08 | 7.63E-09 | 7.63E-09 | 4.26E-09 | 6.65E-08 | 4.97E-10 | 0.66E-09 | 1.19E-09 | 1.19E-09 | 6.55E-10 | 1.02E-08 | 2.70E-10 | 3.60E-09 | 5.30E-10 | 5.30E-10 | 2.62E-10 | 5.20E-09 |
| 1406 | 258529.04 | 4083706 | 2.4229E-09 | 4.39E-08 | 8.01E-09 | 0.01E-09 | 4.47E-09 | 6.98E-08 | 5.21E-10 | 6.99E-09 | 1.25E-09 | 1.25E-09 | 0.87E-10 | 1.07E-08 | 2.83E-10 | 3.76E-09 | 5.56E-10 | 5.56E-10 | 2.71E-10 | 5.45E-09 |
| 1407 | 258551.41 | 4083714.29 | 2.6041E-09 | 4.81E-08 | 8.41E-09 | 8.41E-09 | 4.69E-09 | 7.33E-08 | 5.47E-10 | 7.33E-09 | 1.31E-09 | 1.31E-09 | 7.22E-10 | 1.12E-08 | 2.97E-10 | 3.97E-09 | 5.84E-10 | 5.84E-10 | 2.89E-10 | 5.72E-09 |
| 1408 | 258572.79 | 4083722.57 | 2.7864E-09 | 5.05E-08 | 8.82E-09 | 8.82E-09 | 4.92E-09 | 7.70E-08 | 5.75E-10 | 7.70E-09 | 1.35E-09 | 1.38E-09 | 7.56E-10 | 1.18E-08 | 3.12E-10 | 4.17E-09 | 6.14E-10 | 6.14E-10 | 3.04E-10 | 0.01E-09 |
| 1409 | 258596.17 | 4083730.85 | 3.9795E-09 | 5.22E-08 | 9.28E-09 | 9.28E-09 | 9.18E-09 | 6.09E-08 | 6.04E-10 | 8.10E-09 | 1.43E-09 | 1.45E-09 | 7.97E-10 | 1.24E-08 | 3.26E-10 | 4.35E-09 | 6.45E-10 | 6.45E-10 | 3.19E-10 | 6.32E-09 |
| 1410 | 258618.54 | 4083739.14 | 4.1818E-09 | 5.59E-08 | 9.76E-09 | 9.76E-09 | 5.44E-09 | 8.50E-08 | 6.35E-10 | 6.51E-09 | 1.52E-09 | 1.52E-09 | 8.37E-10 | 1.30E-08 | 3.45E-10 | 4.60E-09 | 6.76E-10 | 0.78E-10 | 3.21E-10 | 0.64E-09 |
| 1411 | 258640.92 | 4083747.42 | 4.3949E-09 | 5.87E-08 | 1.83E-08 | 1.03E-08 | 5.77E-09 | 8.93E-08 | 6.87E-10 | 0.94E-09 | 1.60E-09 | 1.60E-09 | 8.80E-10 | 1.37E-08 | 3.82E-10 | 4.84E-09 | 7.11E-10 | 7.12E-10 | 3.53E-10 | 0.98E-09 |
| 1412 | 258663.29 | 4083755.71 | 4.6154E-09 | 6.17E-08 | 1.08E-08 | 1.08E-08 | 6.00E-09 | 9.38E-08 | 7.00E-10 | 9.39E-09 | 1.68E-09 | 1.68E-09 | 9.24E-10 | 1.44E-08 | 3.80E-10 | 5.08E-09 | 7.48E-10 | 7.48E-10 | 3.70E-10 | 7.21E-09 |
| 1412 | 258685.67 | 4083763.99 | 4.8468E-09 | 0.47E-08 | 1.13E-08 | 1.13E-08 | 6.30E-09 | 9.85E-08 | 7.56E-10 | 9.68E-09 | 1.77E-09 | 1.77E-09 | 9.71E-10 | 1.51E-08 | 4.00E-10 | 5.34E-09 | 7.86E-10 | 7.88E-10 | 3.89E-10 | 7.70E-09 |
| 1414 | 258708.04 | 4083772.28 | 5.0855E-09 | 6.79E-08 | 1.19E-08 | 1.19E-08 | 6.62E-09 | 1.03E-07 | 7.72E-10 | 1.03E-08 | 1.85E-09 | 1.85E-09 | 1.02E-09 | 1.58E-08 | 4.19E-10 | 5.60E-09 | 8.24E-10 | 8.24E-10 | 4.08E-10 | 8.08E-09 |
| 1415 | 258720.42 | 4083780.56 | 5.2315E-09 | 7.12E-08 | 1.24E-08 | 1.24E-08 | 6.94E-09 | 1.08E-07 | 6.09E-10 | 1.08E-08 | 1.94E-09 | 1.94E-09 | 1.07E-09 | 1.66E-08 | 4.39E-10 | 5.87E-09 | 8.64E-10 | 6.64E-10 | 4.26E-10 | 0.47E-09 |
| 1410 | 258752.6 | 4083788.84 | 5.5866E-09 | 7.46E-08 | 1.30E-08 | 1.30E-08 | 7.27E-09 | 1.14E-07 | 8.48E-10 | 1.14E-08 | 2.04E-09 | 2.04E-09 | 1.12E-09 | 1.74E-08 | 4.60E-10 | 0.15E-09 | 9.05E-10 | 9.05E-10 | 4.48E-10 | 8.87E-09 |
| 1417 | 258775.17 | 4083797.12 | 5.8453E-09 | 7.81E-08 | 1.36E-08 | 1.56E-08 | 7.60E-09 | 1.19E-07 | 8.87E-10 | 1.19E-08 | 2.13E-09 | 2.13E-09 | 1.17E-09 | 1.82E-08 | 4.62E-10 | 6.44E-09 | 9.47E-10 | 9.47E-10 | 4.69E-10 | 9.28E-09 |
| 1410 | 258797.55 | 4083805.41 | 6.1114E-09 | 6.16E-08 | 1.43E-08 | 1.43E-08 | 7.95E-09 | 1.24E-07 | 9.28E-10 | 1.24E-08 | 2.23E-09 | 2.22E-09 | 1.22E-09 | 1.90E-08 | 5.04E-10 | 6.73E-09 | 9.90E-10 | 9.90E-10 | 4.90E-10 | 9.70E-09 |
| 1419 | 258819.92 | 4083813.7 | 6.3829E-09 | 8.51E-08 | 1.49E-08 | 1.49E-08 | 8.30E-09 | 1.30E-07 | 9.69E-10 | 1.30E-08 | 2.33E-09 | 2.33E-09 | 1.26E-09 | 1.99E-08 | 5.26E-10 | 7.03E-09 | 1.03E-09 | 1.03E-09 | 5.12E-10 | 1.01E-08 |
| 1420 | 258842.3 | 4083821.98 | 6.6562E-09 | 8.89E-08 | 1.55E-08 | 1.53E-08 | 6.66E-09 | 1.35E-07 | 1.01E-09 | 1.35E-08 | 2.42E-09 | 2.42E-09 | 1.31E-09 | 2.07E-08 | 5.49E-10 | 7.33E-09 | 1.08E-09 | 1.08E-09 | 5.34E-10 | 1.05E-08 |
| 1421 | 258864.68 | 4083830.27 | 6.9312E-09 | 9.26E-08 | 1.62E-08 | 1.62E-08 | 9.02E-09 | 1.41E-07 | 1.05E-09 | 1.41E-08 | 2.52E-09 | 2.52E-09 | 1.39E-09 | 2.14E-08 | 5.71E-10 | 7.83E-09 | 1.12E-09 | 1.12E-09 | 5.56E-10 | 1.10E-08 |
| 1422 | 258887.05 | 4083838.55 | 7.2083E-09 | 9.63E-08 | 1.68E-08 | 1.68E-08 | 9.26E-09 | 1.47E-07 | 1.09E-09 | 1.47E-08 | 2.63E-09 | 2.63E-09 | 1.44E-09 | 2.25E-09 | 5.94E-10 | 7.94E-09 | 1.17E-09 | 1.17E-09 | 5.78E-10 | 1.14E-08 |
| 1423 | 258909.42 | 4083846.83 | 7.4834E-09 | 1.00E-07 | 1.75E-08 | 1.75E-08 | 9.72E-09 | 1.32E-07 | 1.34E-09 | 1.52E-08 | 2.75E-09 | 2.73E-09 | 1.50E-09 | 2.13E-08 | 0.17E-10 | 8.24E-09 | 1.21E-09 | 1.21E-09 | 6.00E-10 | 1.19E-08 |
| 1424 | 258921.8 | 4083855.12 | 7.7586E-09 | 1.04E-07 | 1.81E-08 | 1.81E-08 | 1.01E-08 | 1.58E-07 | 1.18E-09 | 1.58E-08 | 2.83E-09 | 2.83E-09 | 1.55E-09 | 2.41E-08 | 0.40E-10 | 8.54E-09 | 1.26E-09 | 1.26E-09 | 6.22E-10 | 1.23E-08 |
| 1425 | 258954.18 | 4083863.4 | 8.0103E-09 | 1.07E-07 | 1.87E-08 | 1.87E-08 | 1.04E-08 | 1.63E-07 | 1.22E-09 | 1.63E-08 | 2.91E-09 | 2.91E-09 | 1.61E-09 | 2.50E-08 | 0.62E-10 | 8.84E-09 | 1.30E-09 | 1.30E-09 | 6.44E-10 | 1.28E-08 |
| 1420 | 258976.55 | 4083871.69 | 8.2979E-09 | 1.11E-07 | 1.94E-08 | 1.94E-08 | 1.08E-08 | 1.69E-07 | 1.26E-09 | 1.69E-08 | 2.02E-09 | 2.02E-09 | 1.66E-09 | 2.59E-08 | 6.84E-10 | 9.14E-09 | 1.34E-09 | 1.34E-09 | 6.66E-10 | 1.22E-08 |
| 1427 | 258998.93 | 4083879.97 | 8.5585E-09 | 1.14E-07 | 2.00E-08 | 2.00E-08 | 1.11E-08 | 1.74E-07 | 1.30E-09 | 1.74E-08 | 3.12E-09 | 3.12E-09 | 1.71E-09 | 2.67E-08 | 7.05E-10 | 9.42E-09 | 1.39E-09 | 1.29E-09 | 6.87E-10 | 1.36E-08 |
| 1426 | 259021.31 | 4083888.26 | 8.8095E-09 | 1.16E-07 | 2.06E-08 | 2.06E-08 | 1.15E-08 | 1.79E-07 | 1.34E-09 | 1.79E-08 | 3.21E-09 | 3.21E-09 | 1.76E-09 | 2.74E-08 | 7.26E-10 | 9.70E-09 | 1.43E-09 | 1.41E-09 | 7.07E-10 | 1.40E-08 |
| 1429 | 259043.68 | 4083896.54 | 9.0523E-09 | 1.21E-07 | 2.11E-08 | 2.11E-08 | 1.16E-08 | 1.84E-07 | 1.57E-09 | 1.84E-08 | 3.30E-09 | 3.30E-09 | 1.81E-09 | 2.82E-08 | 7.46E-10 | 9.97E-09 | 1.47E-09 | 1.47E-09 | 7.26E-10 | 1.44E-08 |
| 1430 | 259066.06 | 4083904.83 | 9.2764E-09 | 1.24E-07 | 2.16E-08 | 2.16E-08 | 1.23E-09 | 1.89E-07 | 1.41E-09 | 1.89E-08 | 2.35E-09 | 3.38E-09 | 1.86E-09 | 2.89E-08 | 7.65E-10 | 1.02E-08 | 1.50E-09 | 1.50E-09 | 7.44E-10 | 1.47E-08 |
| 1421 | 259088.42 | 4083912.11 | 9.4878E-09 | 1.27E-07 | 2.21E-08 | 2.21E-08 | 1.23E-08 | 1.93E-07 | 1.44E-09 | 1.93E-08 | 3.46E-09 | 2.46E-09 | 1.90E-09 | 2.96E-08 | 7.82E-10 | 1.04E-08 | 1.54E-09 | 1.54E-09 | 7.01E-10 | 1.31E-08 |
| 1412 | 259110.81 | 4083921.39 | 9.6827E-09 | 1.29E-07 | 2.26E-08 | 2.26E-08 | 1.26E-08 | 1.97E-07 | 1.47E-09 | 1.97E-08 | 2.31E-09 | 3.31E-09 | 1.94E-09 | 3.02E-08 | 7.98E-10 | 1.07E-08 | 1.57E-09 | 1.57E-09 | 7.77E-10 | 1.54E-08 |
| 1433 | 259133.18 | 4083929.68 | 9.8613E-09 | 1.32E-07 | 2.30E-08 | 2.30E-08 | 1.28E-08 | 2.00E-07 | 1.50E-09 | 2.01E-08 | 3.59E-09 | 3.59E-09 | 1.97E-09 | 3.07E-08 | 8.13E-10 | 1.09E-08 | 1.60E-09 | 1.60E-09 | 7.91E-10 | 1.57E-08 |
| 1434 | 259155.50 | 4083937.96 | 1.0016E-08 | 1.54E-07 | 2.34E-08 | 2.34E-08 | 1.30E-08 | 2.04E-07 | 1.52E-09 | 2.04E-08 | 2.61E-09 | 3.65E-09 | 2.01E-09 | 3.12E-08 | 8.26E-10 | 1.10E-08 | 1.82E-09 | 1.62E-09 | 8.04E-10 | 1.59E-08 |
| 1435 | 259177.94 | 4083946.25 | 1.0149E-08 | 1.36E-07 | 2.37E-08 | 2.37E-08 | 1.32E-08 | 2.06E-07 | 1.54E-09 | 2.07E-08 | 2.70E-09 | 3.70E-09 | 2.03E-09 | 3.16E-09 | 8.27E-10 | 1.12E-08 | 1.64E-09 | 1.64E-09 | 8.14E-10 | 1.61

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1227 | 258837.72 | 4084213.87 | 1.6889E-08 | 2.28E-07 | 3.94E-09 | 3.94E-08 | 2.20E-08 | 3.43E-07 | 2.56E-09 | 3.44E-09 | 6.15E-09 | 6.15E-09 | 3.38E-09 | 5.26E-08 | 1.39E-09 | 1.86E-08 | 2.74E-09 | 2.74E-09 | 1.35E-09 | 2.68E-08 |
| 1228 | 258860.15 | 4084222.17 | 1.7243E-08 | 2.30E-07 | 4.07E-08 | 4.02E-08 | 2.24E-08 | 3.50E-07 | 2.62E-09 | 3.51E-08 | 6.28E-09 | 6.26E-09 | 3.45E-09 | 5.37E-08 | 1.42E-09 | 1.90E-08 | 2.79E-09 | 2.79E-09 | 1.38E-09 | 2.74E-08 |
| 1229 | 258882.59 | 4084230.48 | 1.7538E-08 | 2.34E-07 | 4.09E-08 | 4.09E-08 | 2.28E-08 | 3.56E-07 | 2.66E-09 | 3.57E-08 | 6.39E-09 | 6.39E-09 | 3.51E-09 | 5.46E-08 | 1.45E-09 | 1.93E-08 | 2.84E-09 | 2.84E-09 | 1.41E-09 | 2.76E-08 |
| 1230 | 258905.02 | 4084238.78 | 1.7796E-08 | 2.38E-07 | 4.16E-08 | 4.15E-08 | 2.32E-08 | 3.62E-07 | 2.70E-09 | 3.62E-08 | 6.48E-09 | 6.48E-09 | 3.56E-09 | 5.55E-08 | 1.47E-09 | 1.96E-08 | 2.66E-09 | 2.88E-09 | 1.43E-09 | 2.83E-08 |
| 1231 | 258927.48 | 4084247.09 | 1.799E-09 | 2.40E-07 | 4.20E-08 | 4.20E-08 | 2.34E-08 | 3.66E-07 | 2.73E-09 | 3.66E-08 | 6.55E-09 | 6.55E-09 | 3.60E-09 | 5.60E-08 | 1.48E-09 | 1.98E-08 | 2.92E-09 | 2.92E-09 | 1.44E-09 | 2.86E-08 |
| 1232 | 258949.69 | 4084255.4 | 1.8119E-08 | 2.42E-07 | 4.23E-08 | 4.23E-08 | 2.36E-08 | 3.68E-07 | 2.75E-09 | 3.69E-08 | 6.60E-09 | 6.60E-09 | 3.63E-09 | 5.65E-08 | 1.49E-09 | 2.00E-08 | 2.94E-09 | 2.94E-09 | 1.45E-09 | 2.88E-08 |
| 1233 | 258982.19 | 4084285.5 | 1.8737E-08 | 2.50E-07 | 4.37E-08 | 4.37E-08 | 2.44E-08 | 3.81E-07 | 2.84E-09 | 3.81E-08 | 6.83E-09 | 6.65E-09 | 3.75E-09 | 5.84E-08 | 1.54E-09 | 2.06E-08 | 3.04E-09 | 3.04E-09 | 1.50E-09 | 2.98E-08 |
| 1234 | 258992.05 | 4084307.3 | 1.9279E-08 | 2.57E-07 | 4.49E-08 | 4.49E-08 | 2.50E-08 | 3.91E-07 | 2.92E-09 | 3.91E-08 | 7.00E-09 | 7.00E-09 | 3.85E-09 | 5.99E-08 | 1.59E-09 | 2.12E-09 | 3.12E-09 | 3.12E-09 | 1.54E-09 | 3.05E-08 |
| 1235 | 259001.91 | 4084129.09 | 1.9639E-08 | 2.62E-07 | 4.58E-08 | 4.58E-08 | 2.55E-08 | 3.99E-07 | 2.98E-09 | 4.00E-08 | 7.13E-09 | 7.15E-09 | 3.93E-09 | 6.12E-08 | 1.62E-09 | 2.16E-08 | 3.16E-09 | 3.16E-09 | 1.58E-09 | 3.12E-08 |
| 1236 | 259011.77 | 4084350.89 | 1.9985E-08 | 2.67E-07 | 4.66E-08 | 4.66E-08 | 2.60E-08 | 4.06E-07 | 3.03E-09 | 4.07E-08 | 7.26E-09 | 7.26E-09 | 4.00E-09 | 6.23E-08 | 1.85E-09 | 2.20E-08 | 3.24E-09 | 3.24E-09 | 1.60E-09 | 3.17E-08 |
| 1237 | 259021.83 | 4084372.69 | 2.0255E-08 | 2.71E-07 | 4.76E-08 | 4.73E-08 | 2.63E-08 | 4.12E-07 | 3.07E-09 | 4.12E-08 | 7.36E-09 | 7.35E-09 | 4.06E-09 | 6.31E-08 | 1.67E-09 | 2.23E-09 | 3.26E-09 | 3.28E-09 | 1.62E-09 | 3.27E-08 |
| 1238 | 259031.5 | 4084394.48 | 2.0435E-08 | 2.73E-07 | 4.77E-08 | 4.77E-08 | 2.66E-08 | 4.15E-07 | 3.10E-09 | 4.16E-08 | 7.44E-09 | 7.44E-09 | 4.05E-09 | 6.37E-08 | 1.68E-09 | 2.25E-08 | 3.31E-09 | 3.31E-09 | 1.64E-09 | 3.24E-08 |
| 1239 | 259041.36 | 4084416.28 | 2.0528E-08 | 2.74E-07 | 4.79E-08 | 4.79E-08 | 2.67E-08 | 4.17E-07 | 3.12E-09 | 4.18E-08 | 7.48E-09 | 7.48E-09 | 4.11E-09 | 6.40E-08 | 1.69E-09 | 2.26E-08 | 3.33E-09 | 3.33E-09 | 1.65E-09 | 3.26E-08 |
| 1240 | 259051.22 | 4084438.06 | 2.0526E-08 | 2.74E-07 | 4.79E-08 | 4.79E-08 | 2.67E-08 | 4.17E-07 | 3.12E-09 | 4.18E-08 | 7.48E-09 | 7.48E-09 | 4.11E-09 | 6.40E-08 | 1.69E-09 | 2.26E-09 | 3.33E-09 | 3.31E-09 | 1.65E-09 | 3.26E-08 |
| 1241 | 259061.08 | 4084459.87 | 2.0431E-08 | 2.73E-07 | 4.77E-08 | 4.77E-08 | 2.66E-08 | 4.15E-07 | 3.10E-09 | 4.16E-08 | 7.44E-09 | 7.44E-09 | 4.09E-09 | 6.37E-08 | 1.68E-09 | 2.25E-08 | 3.31E-09 | 3.31E-09 | 1.84E-09 | 3.24E-08 |
| 1242 | 259070.94 | 4084481.67 | 2.0251E-08 | 2.71E-07 | 4.72E-08 | 4.77E-08 | 2.83E-08 | 4.12E-07 | 3.07E-09 | 4.12E-08 | 7.38E-09 | 7.52E-09 | 4.06E-09 | 6.31E-08 | 1.87E-09 | 2.23E-09 | 3.28E-09 | 3.28E-09 | 1.62E-09 | 3.22E-08 |
| 1243 | 259080.8 | 4084303.47 | 1.9987E-08 | 2.67E-07 | 4.66E-08 | 4.66E-08 | 2.60E-08 | 4.06E-07 | 3.03E-09 | 4.07E-08 | 7.21E-09 | 7.21E-09 | 4.00E-09 | 6.23E-08 | 1.85E-09 | 2.20E-08 | 3.24E-09 | 3.24E-09 | 1.60E-09 | 3.17E-08 |
| 1244 | 259090.66 | 4084525.26 | 1.9642E-08 | 2.62E-07 | 4.58E-08 | 4.58E-08 | 2.55E-08 | 3.99E-07 | 2.98E-09 | 4.00E-08 | 7.18E-09 | 7.16E-09 | 3.93E-09 | 6.12E-08 | 1.82E-09 | 2.18E-09 | 3.16E-09 | 3.18E-09 | 1.56E-09 | 3.17E-08 |
| 1245 | 259100.52 | 4084347.06 | 1.9227E-08 | 2.57E-07 | 4.49E-08 | 4.49E-08 | 2.50E-08 | 3.91E-07 | 2.92E-09 | 3.91E-08 | 7.00E-09 | 7.00E-09 | 3.85E-09 | 5.99E-08 | 1.58E-09 | 2.12E-09 | 3.12E-09 | 3.12E-09 | 1.54E-09 | 3.05E-09 |
| 1248 | 259110.38 | 4084568.86 | 1.8746E-08 | 2.50E-07 | 4.37E-08 | 4.37E-08 | 2.44E-08 | 3.81E-07 | 2.85E-09 | 3.81E-08 | 6.83E-09 | 6.65E-09 | 3.75E-09 | 5.84E-08 | 1.53E-09 | 2.06E-09 | 3.04E-09 | 3.04E-09 | 1.50E-09 | 2.98E-08 |
| 1247 | 259120.24 | 4084590.65 | 1.8212E-08 | 2.43E-07 | 4.25E-08 | 4.25E-08 | 2.37E-08 | 3.70E-07 | 2.76E-09 | 3.71E-08 | 6.63E-09 | 6.63E-09 | 3.89E-09 | 5.67E-08 | 1.50E-09 | 2.01E-08 | 2.95E-09 | 2.95E-09 | 1.46E-09 | 2.89E-08 |
| 1248 | 259130.1 | 4084612.45 | 1.7633E-08 | 2.36E-07 | 4.11E-08 | 4.11E-08 | 2.29E-08 | 3.58E-07 | 2.68E-09 | 3.59E-08 | 6.42E-09 | 6.42E-09 | 3.53E-09 | 5.49E-08 | 1.45E-09 | 1.94E-08 | 2.66E-09 | 2.86E-09 | 1.41E-09 | 2.80E-08 |
| 1249 | 259139.97 | 4084634.25 | 1.7017E-08 | 2.27E-07 | 3.97E-08 | 3.87E-08 | 2.21E-09 | 3.46E-07 | 2.58E-09 | 3.46E-08 | 6.20E-09 | 6.20E-09 | 3.41E-09 | 5.30E-08 | 1.40E-09 | 1.87E-08 | 2.76E-09 | 2.76E-09 | 1.37E-09 | 2.70E-08 |
| 1250 | 259149.83 | 4084656.04 | 1.6374E-08 | 2.19E-07 | 3.82E-08 | 3.82E-08 | 2.13E-08 | 3.33E-07 | 2.49E-09 | 3.36E-08 | 5.96E-09 | 5.96E-09 | 3.28E-09 | 5.10E-08 | 1.35E-09 | 1.80E-09 | 2.65E-09 | 2.65E-09 | 1.31E-09 | 2.60E-08 |
| 1251 | 259159.69 | 4084677.84 | 1.5736E-08 | 2.10E-07 | 3.67E-08 | 3.67E-08 | 2.05E-08 | 3.20E-07 | 2.39E-09 | 3.20E-08 | 5.73E-09 | 5.73E-09 | 3.15E-09 | 4.90E-08 | 1.30E-09 | 1.73E-09 | 2.55E-09 | 2.55E-09 | 1.26E-09 | 2.50E-08 |
| 1252 | 259169.55 | 4084699.64 | 1.506E-08 | 2.01E-07 | 3.51E-09 | 3.51E-08 | 1.96E-08 | 3.06E-07 | 2.29E-09 | 3.06E-08 | 5.49E-09 | 5.49E-09 | 3.02E-09 | 4.69E-08 | 1.24E-09 | 1.66E-08 | 2.44E-09 | 2.44E-09 | 1.21E-09 | 2.39E-08 |
| 1253 | 259179.41 | 4084721.43 | 1.4344E-08 | 1.92E-07 | 3.35E-09 | 3.35E-08 | 1.87E-08 | 2.92E-07 | 2.16E-09 | 2.92E-08 | 5.23E-09 | 5.23E-09 | 2.87E-09 | 4.47E-08 | 1.18E-09 | 1.58E-09 | 2.32E-09 | 2.32E-09 | 1.15E-09 | 2.28E-08 |
| 1254 | 259189.27 | 4084743.23 | 1.3657E-08 | 1.82E-07 | 3.19E-08 | 3.19E-08 | 1.78E-08 | 2.76E-07 | 2.07E-09 | 2.78E-08 | 4.97E-09 | 4.97E-09 | 2.74E-09 | 4.25E-08 | 1.13E-09 | 1.50E-09 | 2.21E-09 | 2.21E-09 | 1.10E-09 | 2.17E-08 |
| 1255 | 259199.13 | 4084765.03 | 1.2995E-08 | 1.74E-07 | 3.03E-08 | 3.03E-09 | 1.89E-08 | 2.84E-07 | 1.97E-09 | 2.64E-08 | 4.73E-09 | 4.73E-09 | 2.60E-09 | 4.05E-08 | 1.07E-09 | 1.43E-08 | 2.11E-09 | 2.13E-09 | 1.04E-09 | 2.06E-08 |
| 1256 | 259208.99 | 4084786.82 | 1.2317E-08 | 1.64E-07 | 2.87E-08 | 2.87E-08 | 1.80E-09 | 2.50E-07 | 1.67E-09 | 2.51E-08 | 4.49E-09 | 4.49E-09 | 2.47E-09 | 3.84E-08 | 1.01E-09 | 1.36E-09 | 2.00E-09 | 2.00E-09 | 9.88E-10 | 1.95E-08 |
| 1257 | 259218.85 | 4084808.62 | 1.1689E-08 | 1.58E-07 | 2.73E-08 | 2.73E-09 | 1.52E-09 | 2.38E-07 | 1.77E-09 | 2.38E-08 | 4.26E-09 | 4.26E-09 | 2.34E-09 | 3.64E-08 | 9.64E-10 | 1.29E-09 | 1.89E-09 | 1.89E-09 | 9.38E-10 | 1.86E-08 |
| 1258 | 259228.71 | 4084830.42 | 1.1106E-08 | 1.48E-07 | 2.59E-08 | 2.59E-08 | 1.44E-08 | 2.26E-07 | 1.89E-09 | 2.28E-08 | 4.05E-09 | 4.05E-09 | 2.22E-09 | 3.46E-08 | 9.15E-10 | 1.22E-08 | 1.80E-09 | 1.80E-09 | 6.91E-10 | 1.76E-08 |
| 1259 | 259238.58 | 4084852.21 | 1.0557E-08 | 1.41E-07 | 2.46E-08 | 2.46E-08 | 1.37E-08 | 2.15E-07 | 1.80E-09 | 2.15E-09 | 3.85E-09 | 3.85E-09 | 2.11E-09 | 3.29E-08 | 6.70E-10 | 1.16E-08 | 1.71E-09 | 1.71E-09 | 6.47E-10 | 1.88E-08 |
| 1260 | 259248.44 | 4084874.01 | 1.004E-08 | 1.34E-07 | 2.14E-08 | 2.34E-08 | 1.31E-09 | 2.04E-07 | 1.52E-09 | 2.04E-08 | 3.66E-09 | 3.66E-09 | 2.01E-09 | 3.13E-08 | 8.28E-10 | 1.11E-09 | 1.63E-09 | 1.63E-09 | 6.05E-10 | 1.59E-08 |
| 1261 | 258321.71 | 4084022.82 | 5.4354E-09 | 7.26E-08 | 1.27E-08 | 1.27E-08 | 7.07E-09 | 1.10E-07 | 8.25E-10 | 1.11E-08 | 1.96E-09 | 1.98E-09 | 1.09E-09 | 1.69E-08 | 4.48E-10 | 5.98E-09 | 8.81E-10 | 6.81E-10 | 4.36E-10 | 8.66E-09 |
| 1262 | 258297.38 | 4084023.82 | 5.2276E-09 | 6.98E-08 | 1.22E-08 | 1.22E-08 | 6.60E-09 | 1.06E-07 | 7.93E-10 | 1.06E-08 | 1.90E-09 | 1.90E-09 | 1.05E-09 | 1.63E-08 | 4.31E-10 | 5.76E-09 | 6.47E-10 | 6.47E-10 | 4.19E-10 | 8.30E-09 |
| 1263 | 258273.05 | 4084024.82 | 5.0309E-09 | 6.72E-08 | 1.17E-08 | 1.17E-08 | 6.54E-09 | 1.02E-07 | 7.64E-10 | 1.02E-08 | 1.83E-09 | 1.81E-09 | 1.01E-09 | 1.57E-08 | 4.15E-10 | 5.34E-09 | 8.15E-10 | 6.15E-10 | 4.04E-10 | 7.99E-09 |
| 1264 | 258248.72 | 4084025.82 | 4.8395E-09 | 6.46E-08 | 1.13E-08 | 1.13E-08 | 6.29E-09 | 9.84E-08 | 7.34E-10 | 9.85E-09 | 1.78E-09 | 1.76E-09 | 9.69E-10 | 1.51E-08 | 3.99E-10 | 5.33E-09 | 7.84E-10 | 7.84E-10 | 3.88E-10 | 7.68E-09 |
| 1265 | 258224.38 | 4084026.82 | 4.8555E-09 | 6.32E-08 | 1.09E-09 | 1.09E-08 | 6.06E-09 | 9.46E-08 | 7.07E-10 | 9.47E-09 | 1.70E-09 | 1.70E-09 | 9.32E-10 | 1.45E-08 | 3.84E-10 | 5.13E-09 | 7.55E-10 | 7.55E-10 | 3.73E-10 | 7.39E-09 |
| 1268 | 258200.05 | 4084027.82 | 4.4769E-09 | 5.98E-08 | 1.04E-08 | 1.04E-08 | 5.82E-09 | 9.10E-08 | 6.79E-10 | 9.11E-09 | 1.63E-09 | 1.65E-09 | 8.97E-10 | 1.39E-08 | 3.69E-10 | 4.93E-09 | 7.26E-10 | 7.26E-10 | 3.59E-10 | 7.11E-09 |
| 1267 | 258175.72 | 4084038.82 | 4.3057E-09 | 5.75E-08 | 1.00E-09 | 1.00E-08 | 5.60E-09 | 8.75E-08 | 6.53E-10 | 8.76E-09 | 1.57E-09 | 1.57E-09 | 6.82E-10 | 1.34E-08 | 3.55E-10 | 4.74E-09 | 6.98E-10 | 8.98E-10 | 3.45E-10 | 6.84E-09 |
| 1268 | 258151.39 | 4084029.82 | 4.138E-09 | 5.53E-08 | 9.65E-09 | 9.65E-09 | 5.38E-09 | 6.41E-08 | 6.28E-10 | 6.42E-09 | 1.51E-09 | 1.51E-09 | 8.29E-10 | 1.29E-08 | 3.41E-10 | 4.56E-09 | 6.71E-10 | 6.71E-10 | 3.32E-10 | 6.57E-09 |
| 1269 | 258127.06 | 4084030.82 | 3.9777E-09 | 5.31E-08 | 9.28E-09 | 9.28E-09 | 5.17E-09 | 8.08E-08 | 6.04E-10 | 8.09E-09 | 1.45E-09 | 1.43E-09 | 7.97E-10 | 1.26E-08 | 3.28E-10 | 4.38E-09 | 6.45E-10 | 6.45E-10 | 3.19E-10 | 6.32E-09 |
| 1270 | 258102.73 | 4084031.82 | 3.8228E-09 | 5.11E-08 | 8.92E-09 | 6.92E-09 | 4.97E-09 | 7.77E-08 | 5.80E-10 | 7.78E-09 | 1.39E-09 | 1.39E-09 | 7.66E-10 | 1.19E-08 | 3.15E-10 | 4.21E-09 | 6.20E-10 | 8.20E-10 | 3.07E-10 | 6.07E-09 |
| 1271 | 258078.39 | 4084032.82 | 3.6734E-09 | 4.91E-08 | 6.57E-09 | 6.57E-09 | 4.78E-09 | 7.47E-08 | 5.58E-10 | 7.48E-09 | 1.34E-09 | 1.34E-09 | 7.36E-10 | 1.14E-08 | 3.08E-10 | 4.04E-09 | 5.95E-10 | 5.95E-10 | 2.95E-10 | 5.83E-09 |
| 1272 | 258054.06 | 4084033.82 | 3.5294E-09 | 4.71E-08 | 8.23E-09 | 8.23E-09 | 4.59E-09 | 7.17E-08 | 5.36E-10 | 7.16E-09 | 1.29E-09 | 1.29E-09 | 7.07E-10 | 1.10E-08 | 2.91E-10 | 3.89E-09 | 5.72E-10 | 5.72E-10 | 2.83E-10 | 5.60E-09 |
| 1273 | 258029.73 | 4084034.82 | 3.3918E-09 | 4.53E-08 | 7.92E-09 | 7.92E-09 | 4.41E-09 | 6.90E-08 | 5.15E-10 | 8.90E-09 | 1.24E-09 | 1.24E-09 | 6.79E-10 | 1.06E-08 | 2.80E-10 | 3.74E-09 | 5.50E-10 | 5.50E-10 | 2.77E-10 | 5.39E-09 |
| 1274 | 258005.4 | 4084035.82 | 3.2634E-09 | 4.36E-08 | 7.61E-09 | 7.61E-09 | 4.24E-09 | 6.63E-08 | 4.95E-10 | 8.64E-09 | 1.19E-09 | 1.19E-09 | 6.54E-10 | 1.02E-08 | 2.89E-10 | 3.59E-09 | 5.29E-10 | 5.29E-10 | 2.63E-10 | 5.18E-09 |
| 1275 | 257981.07 | 4084036.62 | 3.1431E-09 | 4.20E-09 | 7.33E-09 | 7.35E-09 | 4.09E-09 | 8.39E-08 | 4.77E-10 | 8.40E-09 | 1.14E-09 | 1.14E-09 | 6.29E-10 | 9.79E-09 | 2.59E-10 | 3.46E-09 | 5.09E-10 | 5.09E-10 | 2.52E-10 | 4.99E-09 |
| 1276 | 257956.73 | 4084037.82 | 3.0284E-09 | 4.05E-08 | 7.07E-09 | 7.07E-09 | 3.94E-09 | 8.15E-08 | 4.60E-10 | 8.16E-09 | 1.10E-09 | 1.10E-09 | 6.06E-10 | 9.43E-09 | 2.50E-10 | 3.33E-09 | 4.91E-10 | 4.91E-10 | 2.43E-10 | 4.81E-09 |
| 1277 | 257932.4 | 4084038.82 | 2.9227E-09 | 3.90E-09 | 6.62E-09 | 6.82E-09 | 3.80E-09 | 5.94E-08 | 4.44E-10 | 5.95E-09 | 1.06E-09 | 1.06E-09 | 5.85E-10 | 9.11E-09 | 2.41E-10 | 3.22E-09 | 4.74E-10 | 4.74E-10 | 2.34E-10 | 4.64E-09 |
| 1278 | 257908.07 | 4084039.82 | 2.8281E-09 | 3.76E-08 | 6.59E-09 | 6.59E-09 | 3.66E-09 | 5.74E-08 | 4.29E-10 | 5.75E-09 | 1.03E-09 | 1.03E-09 | 5.66E-10 | 8.80E-09 | 2.33E-10 | 3.11E-09 | 4.58E-10 | 4.58E-10 | 2.27E-10 | 4.49E-09 |
| 1279 | 257883.74 | 4084048.83 | 2.7365E-09 | 3.66E-08 | 6.39E-09 | 6.39E-09 | 3.56E-09 | 5.56E-08 | 4.15E-10 | 5.57E-09 | 9.97E-10 | 9.97E-10 | 5.48E-10 | 8.53E-09 | 2.26E-10 | 3.01E-09 | 4.44E-10 | 4.44E-10 | 2.20E-10 | 4.35E-09 |
| 1280 | 257859.41 | 4084041.83 | 2.6548E-09 | 3.55E-08 | 6.19E-09 | 8.19E-09 | 3.45E-09 | 5.40E-08 | 4.03E-10 | 5.40E-09 | 9.87E-10 | 9.67E-10 | 5.32E-10 | 6.27E-09 | 2.19E-10 | 2.92E-09 | 4.30E-10 | 4.30E-10 | 2.13E-10 | 4.22E-09 |
| 1281 | 257835.08 | 4084042.63 | 2.5801E-09 | 3.45E-08 | 6.02E-09 | 6.02E-09 | 3.36E-09 | 5.24E-08 | 3.92E-10 | 5.25E-09 | 9.40E-10 | 9.40E-10 | 5.17E-10 | 8.04E-09 | 2.13E-10 | 2.84E-09 | 4.18E-10 | 4.16E-10 | 2.07E-10 | 4.10E-09 |
| 1282 | 257810.74 | 4084043.83 | 2.5109E-09 | 3.35E-08 | 5.86E-09 | 5.86E-09 | 3.27E-09 | 5.10E-08 | 3.81E-10 | 5.11E-09 | 9.15E-10 | 9.15E-10 | 5.05E-10 | 7.82E-09 | 2.07E-10 | 2.76E-09 | 4.07E-10 | 4.07E-10 | 2.01E-10 | 3.99E-09 |
| 1283 | 257786.41 | 4084044.83 | 2.4489E-09 | 3.27E-08 | 5.71E-09 | 5.71E-09 | 3.19E-09 | 4.98E-08 | 3.72E-10 | 4.98E-09 | 8.92E-10 | 6.92E-10 | 4.90E-10 | 7.63E-09 | 2.02E-10 | 2.70E-09 | 3.97E-10 | 3.97E-10 | 1.96E-10 | 3.89E-09 |
| 1284 | 257762.08 | 4084045.81 | 2.3924E-09 | 3.20E-08 | 5.58E-09 | 5.56E-09 | 3.11E-09 | 4.86E-08 | 3.63E-10 | 4.87E-09 | 8.72E-10 | 8.72E-10 | 4.79E-10 | 7.45E-09 | 1.97E-10 | 2.63E-09 | 3.66E-10 | 3.88E-10 | 1.92E-10 | 3.80E-09 |
| 1285 | 257737.75 | 4084048.83 | 2.3414E-09 | 3.13E-08 | 5.46E-09 | 5.46E-09 | 3.05E-09 | 4.76E-08 | 3.55E-10 | 4.76E-09 | 8.53E-10 | 8.53E-10 | 4.69E-10 | 7.29E-09 | 1.93E-10 | 2.58E-09 | 3.79E-10 | 3.79E-10 | 1.88E-10 | 3.72E-09 |
| 1286 | 257713.42 | 4084047.85 | 2.2922E-09 | 3.06E-08 | 5.35E-09 | 5.31E-09 | 2.98E-09 | 4.66E-08 | 3.46E-10 | 4.66E-09 | 8.35E-10 | 8.35E-10 | 4.59E-10 | 7.14E-09 | 1.89E-10 | 2.52E-09 | 3.72E-10 | 3.72E-10 | 1.84E-10 | 3.64E-09 |
| 1287 | 257689.08 | 4084048.83 | 2.2485E-09 | 3.00E-09 | 5.25E-09 | 5.25E-09 | 2.92E-09 | 4.57E-08 | 3.41E-10 | 4.58E-09 | 8.19E-10 | 8.19E-10 | 4.50E-10 | 7.01E-09 | 1.85E-10 | 2.46E-09 | 3.64E-10 | 3.64E-10 | 1.80E-10 | 3.57E-09 |
| 1288 | 257664.75 | 4084049.83 | 2.2048E-09 | 2.95E-08 | 5.14E-09 | 5.14E-09 | 2.87E-09 | 4.48E-08 | 3.35E-10 | 4.49E-09 | 8.03E-10 | 8.03E-10 | 4.42E-10 | 6.67E-09 | 1.82E-10 | 2.41E-09 | 3.57E-10 | 3.57E-10 | 1.77E-10 | 3.50E-09 |
| 1289 | 257640.42 | 4084050.83 | 2.1629E-09 | 2.89E-08 | 5.05E-09 | 5.05E-09 | 2.81E-09 | 4.40E-08 | 3.28E-10 | 4.40E-09 | 7.88E-10 | 7.88E-10 | 4.36E-10 | 6.74E-09 | 1.78E-10 | 2.32E-09 | 3.51E-10 | 3.51E-10 | 1.74E-10 | 3.43E-09 |
| 1290 | 257616.09 | 4084051.83 | 2.1209E-09 | 2.63E-08 | 4.95E-09 | 4.95E-09 | 2.76E-09 | 4.31E-08 | 3.22E-10 | 4.32E-09 | 7.73E-10 | 7.73E-10 | 4.25E-10 | 6.61E-09 | 1.75E-10 | 2.34E-09 | 3.44E-10 | 3.44E-10 | 1.70E-10 | 3.37E-09 |
| 1291 | 257591.76 | 4084052.63 | 2.079E-09 | 2.78E-08 | 4.85E-09 | 4.85E-09 | 2.70E-09 | 4.25E-08 | 3.18E-10 | 4.23E-09 | 7.57E-10 | 7.57E-10 | 4.18E-10 | 8.48E-09 | 1.71E-10 | 2.29E-09 | 3.37E-10 | 3.37E-10 | 1.67E-10 | 3.30E-09 |
| 1292 | 257567.43 | 4084053.83 | 2.0253E-09 | 2.72E-08 | 4.75E-09 | 4.75E-09 | 2.65E-09 | 4.14E-08 | 3.09E-10 | 4.14E-09 | 7.41E-10 | 7.41E-10 | 4.08E-10 | 6.34E-09 | 1.66E-10 | 2.24E-09 | 3.60E-10 | 3.30E-10 | 1.63E-10 | 3.21E-09 |
| 1293 | 257543.09 | 4084054.83 | 1.9916E-09 | 2.66E-08 | 4.65E-09 | 4.65E-09 | 2.59E-09 | 4.05E-08 | 3.02E-10 | 4.05E-09 | 7.25E-10 | 7.25E-10 | 3.99E-10 | 8.20E-09 | 1.64E-10 | 2.19E-09 | 3.23E-10 | 3.23E-10 | 1.60E-10 | 3.16E-09 |
| 1294 | 257518.76 | 4084095.83 | 1.9478E-09 | 2.60E-08 | 4.54E-09 | 4.34E-09 | 2.53E-09 | 3.96E-08 | 2.96E-10 | 3.96E-09 | 7.10E-10 | 7.10E-10 | 3.90E-10 | 6.07E-09 | 1.81E-10 | 2.14E-09 | 3.16E-10 | 3.16E-10 | 1.56E-10 | 3.09E-09 |
| 1295 | 258336.22 | 4083831.4 | 3.4383E-09 | 4.59E-08 | 8.02E-09 | 8.02E-09 | 4.47E-09 | 6.99E-08 | 5.22E-10 | 7.00E-09 | 1.25E-09 | 1.25E-09 | 6.89E-10 | 1.07E-08 | 2.83E-10 | 3.79E-09 | 5.57E-10 | 5.57E-10 | 2.76E-10 | 5.46E-09 |
| 1296 | 258358.94 | 4083839.81 | 3.6169E-09 | 4.81E-09 | 8.44E-09 | 8.44E-09 | 4.70E-09 | 7.36E-08 | 5.49E-10 | 7.36E-09 | 1.32E-09 | 1.32E-09 | 7.24E-10 | 1.13E-08 | 2.66E-10 | 3.98E-09 | 5.86E-10 | 5.86E-10 | 2.90E-10 | 5.74E-09 |
| 1297 | 258381.66 | 4083848.22 | 3.81E-09 | 5.09E-08 | 8.89E-09 | 8.89E-09 | 4.96E-09 | 7.74E-08 | 5.78E-10 | 7.76E-09 | 1.39E-09 | 1.39E-09 | 7.65E-10 | 1.19E-08 | 3.14E-10 | 4.20E-09 | 6.18E-10 | 6.18E-10 | 3.06E-10 | 6.05E-09 |
| 1298 | 258404.38 | 4083856.64 | 4.0196E-09 | 5.37E-09 | 9.38E-09 | 9.38E-09 | 5.23E-09 | 8.17E-08 | 6.10E-10 | 8.18E-09 | 1.46E-09 | 1.46E-09 | 8.05E-10 | 1.25E-08 | 3.31E-10 | 4.43E-09 | 6.51E-10 | 6.51E-10 | 3.27E-10 | 6.36E-09 |
| 1299 | 258427.1 | 4083865.05 | 4.2455E-09 | 5.67E-08 | 9.91E-09 | 9.91E-09 | 5.52E-09 | 6.63E-08 | 6.44E-10 | 8.84E-09 | 1.53E-09 | 1.55E-09 | 8.50E-10 | 1.32E-08 | 3.50E-10 | 4.87E-09 | 6.88E-10 | 6.88E-10 | 3.43E-10 | 6.74E-09 |
| 1300 | 258449.82 | 4083873.46 | 4.4897E-09 | 6.00E-08 | 1.05E-08 | 1.05E-08 | 5.64E-09 | 9.13E-08 | 6.61E-10 | 9.14E-09 | 1.64E-09 | 1.64E-09 | 8.99E-10 | 1.40E-08 | 3.70E-10 | 4.94E-09 | 7.28E-10 | 7.26E-10 | 3.60E-10 | 7.13E-09 |
| 1301 | 256472.54 | 4083681.87 | 4.7521E-09 | 6.33E-08 | 1.11E-09 | 1.11E-08 | 6.18E-09 | 9.66E-08 | 7.21E-10 | 9.67E-09 | 1.73E-09 | 1.73E-09 | 9.52E-10 | 1.48E-08 | 3.92E-10 | 5.23E-09 | 7.70E-10 | 7.70E-10 | 3.81E-10 | 7.55E-09 |
| 1302 | 258495.26 | 4083890.28 | 5.029E-09 | 6.72E-08 | 1.17E-08 | 1.17E-08 | 6.54E-09 | 1.02E-07 | 7.63E-10 | 1.02E-08 | 1.83E-09 | 1.85E-09 | 1.01E-09 | 1.57E-08 | 4.15E-10 | 5.54E-09 | 8.15E-10 | 8.15E-10 | 4.03E-10 | 7.99E-09 |
| 1303 | 258517.98 | 4083898.69 | 5.3224E-09 | 7.11E-08 | 1.24E-08 | 1.24E-08 | 6.92E-09 | 1.08E-07 | 8.08E-10 | 1.08E-08 | 1.94E-09 | 1.94E-09 | 1.07E-09 | 1.66E-08 | 4.39E-10 | 5.86E-09 | 8.63E-10 | 8.63E-10 | 4.27E-10 | 8.45E-09 |
| 1304 | 258540.7 | 4083907.11 | 5.6303E-09 | 7.52E-08 | 1.31E-08 | 1.31E-08 | 7.32E-09 | 1.14E-07 | 8.55E-10 | 1.15E-08 | 2.05E-09 | 2.05E-09 | 1.13E-09 | 1.75E-08 | 4.64E-10 | 6.20E-09 | 9.13E-10 | 9.13E-10 | 4.52E-10 | 8.94E-09 |
| 1305 | 258563.42 | 4083915.52 | 5.9347E-09 | 7.95E-08 | 1.39E-08 | 1.39E-08 | 7.75E-09 | 1.21E-07 | 9.04E-10 | 1.21E-08 | 2.17E-09 | 2.17E-09 | 1.19E-09 | 1.66E-08 | 4.91E-10 | 6.56E-09 | 9.65E-10 | 9.65E-10 | 4.78E-10 | 9.46E-09 |
| 1306 | 258586.14 | 4083923.93 | 6.2916E-09 | 8.40E-08 | 1.47E-09 | 1.47E-08 | 8.18E-09 | 1.26E-07 | 9.55E-10 | 1.28E-09 | 2.29E-09 | 2.29E-09 | 1.26E-09 | 1.96E-08 | 5.19E-10 | 6.93E-09 | 1.02E-09 | 1.02E-09 | 5.05E-10 | 9.99E-09 |
| 1307 | 258608.66 | 4083932.34 | 6.6416E-09 | 6.87E-08 | 1.55E-08 | 1.55E-08 | 6.64E-09 | 1.35E-07 | 1.01E-09 | 1.35E-08 | 2.42E-09 | 2.42E-09 | 1.35E-09 | 2.07E-08 | 5.47E-10 | 7.31E-09 | 1.08E-09 | 1.08E-09 | 5.33E-10 | 1.05E-08 |
| 1308 | 258631.38 | 4083940.75 | 7.0042E-09 | 9.36E-08 | 1.63E-09 | 1.83E-08 | 9.11E-09 | 1.42E-07 | 1.06E-09 | 1.43E-08 | 2.55E-09 | 2.51E-09 | 1.40E-09 | 2.18E-08 | 5.77E-10 | 7.71E-09 | 1.14E-09 | 1.14E-09 | 5.62E-10 | 1.11E-08 |
| 1309 | 258654.3 | 4083949.17 | 7.3759E-09 | 9.85E-08 | 1.72E-08 | 1.72E-08 | 9.59E-09 | 1.50E-07 | 1.12E-09 | 1.50E-08 | 2.69E-09 | 2.69E-09 | 1.48E-09 | 2.30E-08 | 6.08E-10 | 8.17E-09 | 1.20E-09 | 1.20E-09 | 5.92E-10 | 1.17E-08 |
| 1310 | 258677.02 | 4083957.58 | 7.7567E-09 | 1.04E-07 | 1.61E-09 | 1.61E-08 | 1.01E-08 | 1.56E-07 | 1.18E-09 | 1.58E-08 | 2.83E-09 | 2.83E-09 | 1.56E-09 | 2.42E-08 | 6.39E-10 | 8.54E-09 | 1.26E-09 | 1.26E-09 | 6.22E-10 | 1.23E-08 |
| 1311 | 258699.74 | 4083965.99 | 8.1449E-09 | 1.09E-07 | 1.90E-08 | 1.90E-08 | 1.06E-08 | 1.66E-07 | 1.24E-09 | 1.66E-09 | 2.97E-09 | 2.97E-09 | 1.63E-09 | 2.54E-08 | 6.71E-10 | 8.97E-09 | 1.32E-09 | 1.32E-09 | 6.56E-10 | 1.29E-08 |
| 1312 | 258732.48 | 4083974.4 | 6.5366E-09 | 1.14E-07 | 1.99E-08 | 1.99E-08 | 1.11E-08 | 1.74E-07 | 1.30E-09 | 1.74E-08 | 3.11E-09 | 3.11E-09 | 1.71E-09 | 2.66E-08 | 7.04E-10 | 9.40E-09 | 1.38E-09

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1104 | 258066.38 | 4084133.57 | 9.1707E-09 | 1.23E-07 | 2.14E-09 | 2.14E-09 | 1.19E-08 | 1.86E-07 | 1.39E-09 | 1.87E-08 | 3.34E-09 | 3.34E-09 | 1.84E-09 | 2.86E-08 | 7.36E-10 | 1.01E-09 | 1.49E-09 | 1.49E-09 | 7.36E-10 | 1.46E-08 |
| 1105 | 258042.05 | 4084334.57 | 8.6678E-09 | 1.16E-07 | 2.02E-08 | 2.02E-08 | 1.13E-08 | 1.78E-07 | 1.32E-09 | 1.76E-08 | 3.16E-09 | 3.16E-09 | 1.74E-09 | 2.70E-08 | 7.14E-10 | 9.54E-10 | 1.40E-09 | 1.40E-09 | 0.95E-10 | 1.38E-08 |
| 1106 | 258017.72 | 4084335.57 | 0.1941E-09 | 1.09E-07 | 1.91E-08 | 1.91E-08 | 1.07E-08 | 1.67E-07 | 1.24E-09 | 1.07E-08 | 2.98E-09 | 2.98E-09 | 1.64E-09 | 2.55E-08 | 6.75E-10 | 9.02E-10 | 1.33E-09 | 1.33E-09 | 6.57E-10 | 1.30E-08 |
| 1107 | 257993.39 | 4084336.57 | 7.7495E-09 | 1.04E-07 | 1.81E-08 | 1.81E-08 | 2.01E-09 | 1.57E-07 | 1.18E-09 | 1.58E-09 | 2.82E-09 | 2.82E-09 | 1.55E-09 | 2.41E-08 | 0.39E-10 | 8.53E-10 | 1.26E-09 | 1.26E-09 | 0.22E-10 | 1.23E-08 |
| 1108 | 257969.06 | 4084337.57 | 7.314E-09 | 9.82E-08 | 1.71E-08 | 1.71E-08 | 9.54E-09 | 1.49E-07 | 1.11E-08 | 1.49E-08 | 2.67E-09 | 2.67E-09 | 1.47E-08 | 2.28E-08 | 6.05E-10 | 8.08E-09 | 1.19E-09 | 2.19E-09 | 5.82E-10 | 1.16E-08 |
| 1109 | 257944.73 | 4084338.57 | 0.9459E-09 | 9.28E-08 | 1.62E-08 | 1.62E-08 | 9.03E-09 | 1.41E-07 | 1.05E-09 | 1.41E-08 | 2.53E-09 | 2.53E-09 | 1.39E-09 | 2.16E-08 | 5.73E-10 | 7.65E-09 | 1.13E-09 | 1.13E-09 | 5.57E-10 | 1.10E-08 |
| 1110 | 257920.39 | 4084339.57 | 0.5851E-09 | 8.80E-08 | 1.54E-08 | 1.54E-08 | 0.57E-09 | 1.34E-07 | 9.99E-10 | 1.34E-09 | 2.40E-09 | 2.40E-09 | 1.32E-09 | 2.05E-08 | 5.43E-10 | 7.23E-09 | 1.07E-09 | 2.07E-09 | 5.29E-10 | 1.05E-08 |
| 1111 | 257896.06 | 4084340.57 | 6.2499E-09 | 8.35E-08 | 1.46E-08 | 1.46E-08 | 0.13E-09 | 1.37E-07 | 9.49E-10 | 1.27E-09 | 2.28E-09 | 2.28E-09 | 1.25E-09 | 1.95E-08 | 5.15E-10 | 6.88E-09 | 1.01E-09 | 1.01E-09 | 5.01E-10 | 9.92E-09 |
| 1112 | 257871.73 | 4084341.57 | 5.9383E-09 | 7.91E-08 | 1.39E-08 | 1.39E-08 | 7.72E-09 | 2.21E-07 | 9.01E-10 | 1.21E-08 | 2.16E-09 | 2.16E-09 | 1.19E-09 | 1.95E-08 | 4.89E-10 | 0.54E-09 | 9.63E-10 | 9.63E-10 | 4.76E-10 | 9.41E-09 |
| 1113 | 257847.4 | 4084342.57 | 5.6467E-09 | 7.54E-08 | 1.32E-08 | 1.32E-08 | 7.54E-08 | 1.15E-07 | 8.57E-10 | 1.15E-09 | 2.06E-09 | 2.06E-09 | 1.13E-09 | 1.76E-08 | 4.65E-10 | 8.22E-09 | 9.15E-10 | 9.13E-10 | 4.53E-10 | 8.97E-09 |
| 1114 | 257823.07 | 4084343.57 | 5.3771E-09 | 7.19E-08 | 1.25E-08 | 1.29E-08 | 0.99E-09 | 1.09E-07 | 8.16E-10 | 1.09E-08 | 1.96E-09 | 1.96E-09 | 1.08E-09 | 1.68E-08 | 4.43E-10 | 5.92E-09 | 8.71E-10 | 0.71E-10 | 4.31E-10 | 0.54E-09 |
| 1115 | 257798.73 | 4084344.57 | 5.1274E-09 | 6.81E-08 | 1.20E-08 | 1.20E-08 | 6.67E-09 | 1.04E-07 | 7.78E-10 | 1.04E-09 | 1.87E-09 | 1.87E-09 | 1.03E-09 | 1.60E-08 | 4.23E-10 | 5.65E-09 | 0.31E-10 | 0.31E-10 | 4.11E-10 | 6.14E-09 |
| 1116 | 257774.4 | 4084345.57 | 4.8942E-09 | 6.54E-08 | 1.14E-08 | 1.14E-08 | 0.37E-09 | 9.95E-08 | 7.43E-10 | 9.96E-09 | 1.78E-09 | 1.78E-09 | 9.80E-10 | 1.52E-08 | 4.03E-10 | 5.39E-09 | 7.93E-10 | 7.93E-10 | 3.93E-10 | 7.77E-09 |
| 1117 | 257750.07 | 4084346.57 | 4.661E-09 | 6.23E-08 | 1.09E-08 | 1.09E-08 | 0.09E-08 | 9.51E-08 | 7.10E-10 | 9.53E-09 | 1.71E-09 | 1.71E-09 | 9.37E-10 | 1.46E-08 | 3.86E-10 | 5.15E-09 | 7.59E-10 | 7.59E-10 | 3.76E-10 | 7.43E-09 |
| 1118 | 257725.74 | 4084347.57 | 4.4842E-09 | 5.99E-08 | 1.05E-08 | 1.05E-08 | 5.83E-09 | 9.11E-08 | 6.81E-10 | 9.13E-09 | 1.63E-09 | 1.03E-09 | 8.98E-10 | 1.40E-08 | 3.70E-10 | 4.94E-09 | 7.27E-10 | 7.27E-10 | 3.60E-10 | 7.12E-09 |
| 1119 | 257701.41 | 4084348.57 | 4.3057E-09 | 5.75E-08 | 1.00E-08 | 1.00E-08 | 5.60E-09 | 6.73E-09 | 6.53E-10 | 8.76E-09 | 1.57E-09 | 1.57E-09 | 8.62E-10 | 1.34E-08 | 3.55E-10 | 4.74E-09 | 6.98E-10 | 6.98E-10 | 3.45E-10 | 0.84E-09 |
| 1120 | 257677.08 | 4084349.57 | 4.1417E-08 | 5.53E-08 | 9.66E-09 | 9.66E-09 | 5.39E-09 | 0.42E-08 | 6.29E-10 | 8.43E-09 | 1.53E-09 | 1.51E-09 | 0.29E-10 | 1.29E-08 | 3.41E-10 | 4.56E-09 | 0.71E-10 | 6.71E-10 | 3.32E-10 | 0.58E-09 |
| 1121 | 257652.74 | 4084350.57 | 3.9904E-09 | 5.35E-08 | 9.31E-09 | 9.31E-09 | 5.19E-09 | 8.11E-08 | 6.06E-10 | 8.12E-09 | 1.45E-09 | 1.41E-09 | 7.99E-10 | 1.34E-08 | 3.29E-10 | 4.39E-09 | 6.47E-10 | 6.47E-10 | 3.20E-10 | 6.34E-09 |
| 1122 | 257620.41 | 4084351.58 | 3.8538E-09 | 5.15E-08 | 8.99E-09 | 8.99E-09 | 5.01E-09 | 7.83E-08 | 5.85E-10 | 7.84E-09 | 1.40E-09 | 1.40E-09 | 7.72E-10 | 1.20E-08 | 3.18E-10 | 4.24E-09 | 6.25E-10 | 6.25E-10 | 3.09E-10 | 0.12E-09 |
| 1123 | 257604.08 | 4084352.58 | 3.728E-08 | 4.98E-08 | 0.70E-08 | 8.70E-09 | 4.85E-09 | 7.58E-08 | 5.66E-10 | 7.59E-09 | 1.36E-09 | 1.36E-09 | 7.47E-10 | 1.16E-08 | 3.07E-10 | 4.10E-09 | 6.04E-10 | 6.04E-10 | 2.99E-10 | 5.92E-09 |
| 1124 | 257579.75 | 4084393.58 | 3.6114E-09 | 4.82E-08 | 8.43E-09 | 8.43E-09 | 4.70E-09 | 7.34E-08 | 5.48E-10 | 7.35E-09 | 1.32E-09 | 1.31E-09 | 7.23E-10 | 1.13E-08 | 2.98E-10 | 3.98E-09 | 5.85E-10 | 5.85E-10 | 2.90E-10 | 5.73E-09 |
| 1125 | 257555.42 | 4084354.58 | 3.5021E-09 | 4.68E-08 | 8.17E-09 | 8.17E-09 | 4.56E-09 | 7.13E-08 | 5.32E-10 | 7.13E-09 | 1.28E-09 | 1.28E-09 | 7.01E-10 | 1.09E-08 | 2.89E-10 | 3.86E-09 | 5.66E-10 | 5.66E-10 | 2.91E-10 | 5.56E-09 |
| 1120 | 157531.08 | 4084355.58 | 3.4019E-09 | 4.64E-08 | 7.94E-09 | 7.94E-09 | 4.42E-09 | 6.91E-08 | 5.16E-10 | 8.92E-09 | 1.24E-08 | 1.24E-09 | 6.81E-10 | 1.06E-08 | 2.80E-10 | 3.75E-09 | 5.51E-10 | 5.51E-10 | 2.73E-10 | 5.40E-09 |
| 1127 | 258351.93 | 4084230.8 | 1.1321E-09 | 1.51E-07 | 2.64E-08 | 2.64E-08 | 1.47E-08 | 2.30E-07 | 1.72E-09 | 2.30E-08 | 4.12E-08 | 4.12E-09 | 2.27E-09 | 3.53E-08 | 9.33E-10 | 1.25E-08 | 1.83E-09 | 1.83E-09 | 9.08E-10 | 1.80E-08 |
| 1120 | 258373.93 | 4084238.94 | 1.2105E-08 | 1.62E-07 | 2.82E-08 | 2.62E-08 | 1.57E-08 | 2.46E-07 | 1.84E-09 | 2.46E-09 | 4.41E-09 | 4.41E-09 | 2.42E-09 | 3.77E-08 | 9.98E-10 | 1.33E-09 | 1.96E-09 | 1.96E-09 | 9.71E-10 | 1.92E-09 |
| 1129 | 258395.93 | 4084247.09 | 1.2922E-08 | 1.71E-07 | 3.01E-08 | 3.01E-08 | 1.68E-08 | 2.63E-07 | 1.96E-09 | 2.63E-08 | 4.71E-08 | 4.71E-09 | 2.59E-09 | 4.03E-08 | 1.07E-09 | 1.42E-08 | 2.09E-09 | 2.09E-09 | 1.04E-09 | 2.06E-08 |
| 1130 | 258417.93 | 4084255.23 | 1.3766E-08 | 1.84E-07 | 3.21E-08 | 3.21E-08 | 1.79E-08 | 2.80E-07 | 2.09E-09 | 2.80E-08 | 5.01E-08 | 5.01E-08 | 2.76E-09 | 4.29E-08 | 1.13E-09 | 1.52E-08 | 2.35E-09 | 2.35E-09 | 1.10E-09 | 2.19E-08 |
| 1131 | 258439.93 | 4084263.38 | 1.4632E-08 | 1.95E-07 | 3.41E-08 | 3.41E-08 | 1.90E-08 | 2.97E-07 | 2.22E-09 | 2.98E-08 | 5.35E-08 | 5.33E-09 | 2.93E-09 | 4.56E-08 | 1.21E-09 | 1.61E-08 | 2.37E-09 | 2.37E-09 | 1.17E-09 | 2.32E-08 |
| 1132 | 258461.94 | 4084271.53 | 1.5513E-08 | 2.07E-07 | 3.62E-08 | 3.62E-08 | 2.02E-08 | 3.11E-07 | 2.35E-09 | 3.16E-08 | 5.65E-08 | 5.65E-09 | 3.11E-08 | 4.83E-08 | 1.26E-09 | 1.71E-08 | 2.51E-09 | 2.51E-09 | 1.24E-09 | 2.46E-08 |
| 1133 | 258483.94 | 4084279.67 | 1.6403E-08 | 2.19E-07 | 3.83E-08 | 3.83E-08 | 2.13E-08 | 3.31E-07 | 2.49E-09 | 1.34E-08 | 5.98E-08 | 5.98E-09 | 3.28E-09 | 5.11E-08 | 1.35E-09 | 1.81E-08 | 2.66E-09 | 2.66E-09 | 1.32E-09 | 2.60E-08 |
| 1134 | 258505.94 | 4084287.82 | 1.7299E-08 | 2.31E-07 | 4.04E-08 | 4.04E-08 | 2.25E-08 | 3.52E-07 | 2.63E-09 | 3.52E-08 | 6.30E-08 | 6.30E-09 | 3.46E-08 | 5.39E-08 | 1.43E-09 | 1.90E-08 | 2.80E-09 | 2.80E-08 | 1.39E-09 | 2.75E-08 |
| 1135 | 258527.94 | 4084295.96 | 1.9192E-08 | 2.43E-07 | 4.24E-08 | 4.24E-08 | 2.37E-08 | 3.70E-07 | 2.76E-09 | 1.70E-08 | 0.63E-09 | 6.63E-09 | 3.64E-09 | 5.67E-08 | 1.50E-09 | 2.00E-08 | 3.95E-09 | 2.95E-08 | 1.46E-09 | 2.89E-08 |
| 1136 | 258549.94 | 4084304.11 | 1.9079E-08 | 2.55E-07 | 4.45E-08 | 4.45E-08 | 2.46E-08 | 3.68E-07 | 2.90E-09 | 3.88E-08 | 0.95E-09 | 0.95E-09 | 3.82E-09 | 5.94E-08 | 1.57E-09 | 2.10E-08 | 3.09E-09 | 3.09E-09 | 1.35E-09 | 3.03E-08 |
| 1137 | 258571.94 | 4084312.25 | 1.9949E-09 | 2.66E-07 | 4.65E-08 | 4.65E-08 | 2.59E-08 | 4.05E-07 | 3.03E-09 | 4.06E-08 | 7.27E-09 | 7.27E-09 | 4.00E-09 | 6.22E-08 | 1.64E-09 | 2.20E-08 | 3.33E-09 | 3.33E-09 | 1.60E-09 | 3.17E-08 |
| 1138 | 258593.95 | 4084320.4 | 2.0799E-08 | 2.78E-07 | 4.85E-08 | 4.95E-08 | 2.71E-08 | 4.23E-07 | 3.16E-09 | 4.23E-08 | 7.58E-09 | 7.58E-09 | 4.17E-09 | 0.48E-08 | 1.71E-09 | 1.29E-08 | 3.37E-09 | 3.37E-09 | 1.67E-09 | 3.30E-08 |
| 1139 | 258615.95 | 4084328.55 | 2.1618E-08 | 2.89E-07 | 5.04E-08 | 5.04E-08 | 2.81E-08 | 4.39E-07 | 3.28E-09 | 4.40E-08 | 7.87E-09 | 7.87E-09 | 4.33E-09 | 0.74E-09 | 1.78E-09 | 2.38E-09 | 3.50E-09 | 3.50E-08 | 1.73E-09 | 3.41E-08 |
| 1140 | 258637.95 | 4084336.69 | 2.2397E-08 | 2.99E-07 | 5.21E-08 | 5.31E-08 | 2.91E-08 | 4.55E-07 | 3.40E-09 | 4.56E-08 | 8.16E-09 | 8.16E-09 | 4.49E-09 | 6.92E-08 | 1.85E-09 | 2.47E-09 | 3.83E-09 | 3.83E-09 | 1.80E-09 | 3.56E-08 |
| 1141 | 258659.95 | 4084344.84 | 2.3134E-09 | 3.09E-07 | 5.40E-08 | 5.40E-08 | 3.01E-08 | 4.70E-07 | 3.51E-09 | 4.71E-08 | 6.43E-09 | 6.43E-09 | 4.61E-09 | 7.21E-08 | 1.91E-09 | 2.55E-09 | 3.75E-09 | 3.75E-09 | 1.86E-09 | 3.67E-08 |
| 1142 | 258681.95 | 4084352.98 | 2.3815E-08 | 3.18E-07 | 5.56E-08 | 5.56E-08 | 3.10E-08 | 4.84E-07 | 3.61E-09 | 4.85E-08 | 8.68E-09 | 8.68E-09 | 4.77E-08 | 7.42E-08 | 1.96E-09 | 2.62E-09 | 3.86E-09 | 3.86E-09 | 1.91E-09 | 3.78E-08 |
| 1143 | 258703.95 | 4084361.13 | 2.4431E-08 | 3.29E-07 | 5.70E-08 | 5.70E-08 | 3.18E-09 | 4.97E-07 | 3.71E-09 | 4.97E-08 | 8.90E-09 | 8.90E-09 | 4.89E-09 | 7.61E-08 | 2.01E-09 | 2.69E-08 | 3.96E-09 | 3.96E-09 | 2.96E-09 | 3.88E-08 |
| 1144 | 258725.96 | 4084369.36 | 2.4972E-09 | 3.34E-07 | 5.83E-08 | 5.83E-08 | 3.25E-09 | 5.08E-07 | 3.79E-09 | 5.08E-08 | 9.10E-09 | 9.10E-09 | 5.00E-09 | 7.78E-08 | 2.06E-09 | 2.75E-09 | 4.05E-09 | 4.05E-09 | 2.00E-09 | 3.97E-08 |
| 1145 | 258747.96 | 4084377.42 | 2.5422E-09 | 3.40E-07 | 5.93E-09 | 5.93E-09 | 3.31E-08 | 5.17E-07 | 3.86E-09 | 5.17E-08 | 9.36E-09 | 9.29E-09 | 5.09E-09 | 7.92E-08 | 2.10E-09 | 2.80E-09 | 4.12E-09 | 4.12E-09 | 2.04E-09 | 4.04E-08 |
| 1146 | 258769.96 | 4084385.57 | 2.5772E-09 | 3.44E-07 | 6.01E-09 | 0.01E-09 | 3.35E-08 | 5.34E-07 | 3.91E-09 | 5.24E-08 | 9.39E-09 | 9.39E-09 | 5.16E-09 | 0.01E-09 | 2.12E-09 | 2.84E-09 | 4.18E-09 | 4.18E-09 | 2.07E-09 | 4.09E-08 |
| 1147 | 258791.96 | 4084393.71 | 2.6013E-08 | 3.47E-07 | 6.07E-08 | 6.07E-08 | 3.38E-08 | 5.29E-07 | 3.95E-09 | 5.29E-08 | 9.48E-09 | 9.48E-09 | 5.21E-09 | 8.10E-08 | 2.14E-09 | 2.86E-08 | 4.22E-09 | 4.22E-09 | 2.09E-09 | 4.13E-08 |
| 1148 | 258813.96 | 4084401.86 | 2.6082E-08 | 3.46E-07 | 6.09E-08 | 6.09E-08 | 3.39E-08 | 5.30E-07 | 3.96E-09 | 5.31E-08 | 9.50E-09 | 9.50E-09 | 5.22E-09 | 8.13E-08 | 2.13E-09 | 2.87E-09 | 4.23E-09 | 4.23E-09 | 2.09E-09 | 4.14E-08 |
| 1149 | 258845.63 | 4084431.38 | 2.0929E-08 | 3.60E-07 | 0.28E-08 | 0.26E-09 | 3.50E-08 | 5.47E-07 | 4.09E-09 | 5.48E-08 | 9.91E-09 | 9.61E-09 | 5.39E-09 | 8.39E-08 | 2.22E-09 | 2.96E-09 | 4.36E-09 | 4.36E-09 | 2.16E-09 | 4.28E-08 |
| 1150 | 258855.3 | 4084452.76 | 2.7665E-09 | 3.70E-07 | 6.45E-09 | 0.41E-09 | 3.60E-08 | 5.62E-07 | 4.20E-09 | 5.61E-08 | 1.01E-08 | 1.01E-08 | 5.54E-09 | 8.62E-08 | 2.28E-09 | 3.05E-09 | 4.48E-09 | 4.48E-09 | 2.22E-09 | 4.39E-08 |
| 1151 | 258854.97 | 4084474.13 | 2.8268E-08 | 3.76E-07 | 0.60E-09 | 6.60E-08 | 3.68E-08 | 5.75E-07 | 4.29E-09 | 5.75E-08 | 2.83E-08 | 1.03E-08 | 5.66E-09 | 8.81E-08 | 2.33E-09 | 3.11E-09 | 4.56E-09 | 4.58E-09 | 2.27E-09 | 4.49E-08 |
| 1152 | 258874.64 | 4084495.51 | 2.8727E-08 | 3.84E-07 | 6.70E-09 | 0.70E-08 | 3.74E-08 | 5.84E-07 | 4.36E-09 | 5.85E-08 | 1.05E-08 | 1.05E-08 | 5.75E-09 | 8.95E-08 | 2.37E-09 | 3.16E-08 | 4.66E-08 | 4.66E-09 | 2.30E-09 | 4.36E-08 |
| 1133 | 258884.32 | 4084516.88 | 2.9026E-08 | 3.88E-07 | 8.77E-08 | 8.77E-09 | 3.78E-08 | 5.90E-07 | 4.41E-09 | 5.91E-08 | 1.05E-09 | 1.06E-08 | 5.81E-09 | 9.04E-08 | 2.39E-09 | 3.20E-09 | 4.70E-09 | 4.70E-09 | 2.33E-09 | 4.61E-08 |
| 1154 | 258893.99 | 4084538.26 | 2.9161E-08 | 3.90E-07 | 6.80E-09 | 0.80E-09 | 3.79E-08 | 5.93E-07 | 4.43E-09 | 5.93E-08 | 1.06E-09 | 1.06E-08 | 5.84E-09 | 9.09E-08 | 2.40E-09 | 3.21E-09 | 4.73E-09 | 4.73E-09 | 2.54E-09 | 4.63E-08 |
| 1155 | 258903.66 | 4084559.63 | 2.9131E-08 | 3.89E-07 | 8.79E-08 | 8.79E-09 | 3.79E-08 | 5.92E-07 | 4.42E-08 | 5.93E-08 | 1.06E-09 | 1.06E-08 | 5.63E-09 | 9.07E-08 | 2.40E-09 | 3.21E-08 | 4.72E-09 | 4.72E-09 | 2.34E-09 | 4.62E-08 |
| 1156 | 258913.33 | 4084581.01 | 2.8906E-09 | 3.86E-07 | 8.74E-08 | 8.74E-08 | 3.76E-08 | 5.87E-07 | 4.39E-08 | 5.88E-08 | 1.05E-08 | 1.05E-08 | 5.79E-09 | 9.01E-08 | 2.38E-09 | 3.18E-09 | 4.68E-08 | 4.68E-09 | 2.32E-09 | 4.59E-08 |
| 1157 | 258923 | 4084602.38 | 2.8516E-08 | 3.91E-07 | 8.65E-08 | 6.65E-08 | 3.71E-08 | 5.80E-07 | 4.33E-09 | 5.80E-08 | 1.04E-09 | 1.04E-08 | 5.71E-09 | 8.58E-08 | 2.35E-09 | 3.14E-08 | 4.63E-09 | 4.63E-09 | 2.29E-09 | 4.51E-08 |
| 1158 | 258932.67 | 4084623.76 | 2.7957E-08 | 3.73E-07 | 6.52E-09 | 6.52E-08 | 3.64E-08 | 5.66E-07 | 4.34E-09 | 5.69E-08 | 1.02E-08 | 1.02E-08 | 5.80E-09 | 0.71E-08 | 2.30E-09 | 3.08E-08 | 4.53E-09 | 4.53E-09 | 2.24E-09 | 4.44E-08 |
| 1159 | 258942.34 | 4084645.13 | 2.7242E-08 | 3.64E-07 | 6.36E-08 | 8.36E-09 | 3.54E-08 | 5.54E-07 | 4.13E-09 | 5.54E-09 | 9.92E-09 | 9.92E-09 | 5.66E-09 | 0.49E-08 | 2.25E-09 | 3.00E-09 | 4.42E-09 | 4.42E-09 | 2.19E-08 | 4.31E-08 |
| 1160 | 258952.01 | 4084666.51 | 2.039E-08 | 3.51E-07 | 8.16E-08 | 8.16E-08 | 3.43E-08 | 5.36E-07 | 4.01E-09 | 5.37E-08 | 9.63E-09 | 9.61E-09 | 5.29E-09 | 8.22E-08 | 2.18E-09 | 2.91E-08 | 4.28E-09 | 4.28E-09 | 2.12E-09 | 4.19E-08 |
| 1161 | 258961.66 | 4084687.89 | 2.342E-08 | 3.40E-07 | 5.93E-08 | 5.93E-08 | 3.31E-08 | 5.17E-07 | 3.85E-09 | 5.17E-08 | 9.26E-09 | 9.26E-08 | 5.08E-09 | 7.92E-08 | 2.10E-09 | 2.80E-08 | 4.12E-09 | 4.12E-09 | 2.04E-08 | 4.04E-09 |
| 1162 | 258971.35 | 4084709.20 | 2.4358E-08 | 3.23E-07 | 5.68E-08 | 5.68E-08 | 3.17E-08 | 4.95E-07 | 3.70E-09 | 4.96E-08 | 0.87E-09 | 8.87E-09 | 4.88E-09 | 7.59E-08 | 2.01E-09 | 2.68E-09 | 3.95E-09 | 3.95E-09 | 1.95E-09 | 3.87E-08 |
| 1163 | 258981.02 | 4084730.64 | 2.3225E-08 | 3.10E-07 | 5.42E-09 | 5.42E-09 | 3.02E-08 | 4.72E-07 | 3.52E-09 | 4.73E-08 | 0.46E-09 | 8.46E-09 | 4.65E-09 | 7.24E-08 | 1.91E-09 | 2.56E-09 | 3.76E-09 | 3.76E-09 | 1.86E-09 | 3.69E-08 |
| 1164 | 258990.69 | 4084752.01 | 2.2048E-08 | 2.95E-07 | 5.14E-08 | 5.14E-09 | 2.87E-08 | 4.48E-07 | 3.35E-09 | 4.49E-08 | 8.03E-09 | 8.03E-09 | 4.42E-09 | 6.87E-08 | 1.82E-09 | 2.43E-08 | 3.57E-08 | 3.57E-09 | 1.77E-09 | 3.50E-08 |
| 1105 | 259000.36 | 4084773.39 | 2.0856E-08 | 2.79E-07 | 4.87E-08 | 4.87E-08 | 2.71E-08 | 4.24E-07 | 3.17E-09 | 4.24E-08 | 7.80E-09 | 7.60E-09 | 4.18E-09 | 6.50E-08 | 1.72E-09 | 2.30E-08 | 3.38E-08 | 3.38E-09 | 1.87E-09 | 3.31E-08 |
| 1166 | 259010.03 | 4084794.70 | 1.9675E-08 | 2.03E-07 | 4.59E-08 | 4.59E-09 | 2.56E-08 | 4.00E-07 | 2.99E-09 | 4.00E-08 | 7.17E-09 | 7.17E-09 | 3.94E-09 | 6.13E-08 | 1.62E-09 | 2.17E-08 | 3.19E-09 | 3.19E-09 | 1.58E-09 | 3.12E-08 |
| 1107 | 259019.7 | 4084816.14 | 1.8527E-08 | 2.47E-07 | 4.32E-08 | 4.32E-08 | 2.41E-08 | 3.77E-07 | 2.91E-09 | 3.77E-08 | 6.75E-09 | 6.75E-09 | 3.71E-09 | 5.77E-08 | 1.53E-09 | 2.04E-09 | 3.00E-09 | 3.00E-09 | 1.49E-09 | 2.94E-08 |
| 1168 | 259029.37 | 4084837.51 | 1.7423E-08 | 2.31E-07 | 4.06E-08 | 4.06E-08 | 2.27E-09 | 3.54E-07 | 2.64E-09 | 3.55E-08 | 6.35E-09 | 6.35E-09 | 3.49E-09 | 5.43E-08 | 1.44E-09 | 1.92E-08 | 2.82E-09 | 2.82E-09 | 1.40E-09 | 2.77E-08 |
| 1169 | 259039.04 | 4084858.89 | 1.6366E-09 | 2.19E-07 | 3.82E-08 | 3.82E-08 | 2.13E-08 | 3.33E-07 | 2.42E-09 | 3.33E-08 | 5.96E-09 | 5.96E-09 | 3.28E-09 | 5.10E-08 | 1.35E-09 | 1.80E-09 | 2.65E-09 | 2.65E-09 | 1.31E-09 | 2.60E-08 |
| 1170 | 259048.71 | 4084880.26 | 1.5366E-08 | 2.05E-07 | 3.59E-08 | 3.59E-08 | 2.00E-08 | 3.12E-07 | 2.33E-09 | 3.13E-08 | 5.60E-09 | 5.60E-09 | 3.08E-09 | 4.79E-08 | 1.27E-09 | 1.69E-08 | 2.49E-09 | 2.49E-09 | 1.23E-08 | 2.44E-08 |
| 1171 | 258329.93 | 4084222.05 | 1.057E-08 | 1.41E-07 | 2.47E-08 | 2.47E-08 | 1.37E-08 | 2.15E-07 | 1.60E-09 | 2.15E-08 | 3.85E-09 | 3.85E-09 | 2.12E-09 | 3.29E-08 | 0.71E-10 | 1.16E-08 | 1.71E-09 | 1.71E-09 | 8.48E-10 | 1.68E-08 |
| 1172 | 258305.59 | 4084223.65 | 1.0146E-08 | 1.36E-07 | 2.37E-08 | 2.37E-08 | 1.32E-08 | 2.06E-07 | 1.54E-09 | 2.06E-08 | 3.70E-09 | 3.70E-09 | 2.03E-09 | 3.16E-08 | 8.36E-10 | 1.12E-08 | 1.64E-09 | 1.64E-09 | 0.14E-10 | 1.61E-08 |
| 1173 | 258281.20 | 4084124.65 | 9.7228E-09 | 1.30E-07 | 2.27E-09 | 1.27E-09 | 1.26E-08 | 1.98E-07 | 1.48E-09 | 1.98E-08 | 3.54E-09 | 3.54E-09 | 1.95E-09 | 3.03E-08 | 8.01E-10 | 1.07E-09 | 2.58E-09 | 1.58E-09 | 7.80E-10 | 1.54E-08 |
| 1174 | 258256.93 | 4084125.65 | 9.3037E-09 | 1.24E-07 | 2.17E-08 | 2.17E-08 | 1.21E-08 | 1.89E-07 | 1.41E-09 | 1.89E-08 | 3.39E-09 | 3.39E-09 | 1.85E-09 | 2.90E-08 | 7.87E-10 | 1.03E-08 | 1.51E-09 | 1.51E-09 | 7.46E-10 | 1.48E-08 |
| 1175 | 258332.0 | 4084220.65 | 8.8581E-09 | 1.19E-07 | 2.07E-08 | 2.07E-08 | 1.16E-08 | 1.91E-07 | 1.25E-09 | 1.01E-08 | 3.24E-09 | 3.24E-09 | 1.78E-09 | 2.77E-08 | 7.33E-10 | 9.79E-09 | 1.44E-09 | 1.44E-09 | 7.13E-10 | 1.41E-08 |
| 1176 | 258208.27 | 4084227.65 | 8.4783E-09 | 1.13E-07 | 1.98E-08 | 1.98E-08 | 1.10E-08 | 1.72E-07 | 1.29E-09 | 1.71E-08 | 3.09E-09 | 3.09E-09 | 1.70E-09 | 2.64E-08 | 0.99E-10 | 9.34E-09 | 1.37E-09 | 1.37E-09 | 0.80E-10 | 1.35E-08 |
| 1177 | 258183.94 | 4084228.65 | 0.0756E-09 | 1.08E-07 | 1.88E-08 | 1.88E-09 | 1.05E-08 | 1.64E-07 | 1.21E-09 | 1.64E-08 | 2.94E-09 | 2.94E-09 | 1.62E-08 | 2.52E-08 | 6.66E-10 | 8.89E-09 | 2.31E-09 | 1.31E-09 | 0.48E-10 | 1.28E-08 |
| 1178 | 258159.6 | 4084229.65 | 7.6839E-09 | 1.03E-07 | 1.79E-08 | 1.79E-08 | 9.99E-09 | 1.36E-07 | 1.17E-09 | 1.56E-08 | 2.80E-09 | 2.80E-09 | 1.54E-09 | 2.39E-08 | 6.31E-10 | 8.46E-08 | 1.25E-09 | 1.25E-09 | 6.16E-10 | 1.22E-08 |
| 1179 | 258135.27 | 4084230.65 | 7.3049E-09 | 9.76E-08 | 1.70E-08 | 1.70E-08 | 9.50E-08 | 1.48E-07 | 1.11E-09 | 1.49E-08 | 2.66E-09 | 2.66E-09 | 1.46E-09 | 2.28E-08 | 6.02E-10 | 8.04E-09 | 1.18E-09 | 1.18E-09 | 5.86E-10 | 1.16E-09 |
| 1180 | 258110.94 | 4084231.65 | 8.9423E-09 | 9.27E-08 | 1.62E-08 | 1.62E-08 | 9.03E-09 | 1.41E-07 | 1.05E-09 | 1.41E-08 | 2.53E-09 | 2.35E-09 | 1.39E-09 | 2.16E-08 | 5.72E-10 | 7.64E-09 | 1.13E-09 | 1.13E-09 | 5.57E-10 | 1.10E-08 |
| 1181 | 258086.61 | 4084232.85 | 6.5997E-09 | 8.82E-08 | 1.54E-08 | 1.54E-08 | 8.58E-09 | 1.34E-07 | 1.00E-09 | 1.54E-08 | 2.40E-09 | 2.40E-09 | 1.32E-09 | 2.06E-08 | 5.44E-10 | 7.37E-09 | 1.07E-09 | 1.07E-09 | 5.29E-10 | 1.05E-08 |
| 1182 | 258062.28 | 4084233.65 | 0.3713E-09 | 8.38E-08 | 1.46E-08 | 1.46E-09 | 8.16E-08 | 1.28E-07 | 9.32E-10 | 1.28E-08 | 2.29E-08 | 2.29E-09 | 1.26E-09 | 1.95E-08 | 5.17E-10 | 6.91E-09 | 1.02E-09 | 1.02E-09 | 5.03E-10 | 9.96E-09 |
| 1183 | 258037.94 | 4084234.65 | 5.9674E-09 | 7.97E-08 | 1.39E-08 | 1.39E-08 | 7.78E-09 | 1.21E-07 | 9.06E-10 | 1.21E-08 | 2.17E-09 | 2.17E-09 | 1.20E-09 | 1.86E-08 | 4.92E-10 | 6.57E-09 | 9.67E-10 | 9.67E-10 | 4.79E-10 | 9.48E-09 |
| 1184 | 258013.61 | 4084235.65 | 5.6795E-08 | 7.59E-08 | 1.33E-08 | 1.33E-08 | 7.39E-09 | 1.13E-07 | 8.62E-10 | 1.16E-08 | 2.07E-09 | 2.07E-09 | 1.14E-09 | 1.77E-08 | 4.68E-10 | 8.25E-09 | 9.21E-10 | 9.21E-10 | 4.36E-10 | 9.02E-09 |
| 1185 | 257989.28 | 4084236.66 | 5.4117E-09 | 7.23E-08 | 1.26E-08 | 1.26E-08 | 7.04E-09 | 1.10E-07 | 8.21E-10 | 1.10E-08 | 1.97E-09 | 1.97E-08 | 1.08E-09 | 1.69E-08 | 4.46E-10 | 5.96E-09 | 0.77E-10 | 0.77E-10 | 4.34E-10 | 0.59E-09 |
| 1186 | 257964.95 | 4084237.66 | 5.1821E-08 | 8.90E-08 | 1.20E-08 | 1.20E-08 | 6.71E-09 | 1.05E-07 | 7.83E-10 | 1.05E-08 | 1.88E-09 | 1.88E-09 | 1.05E-09 | 1.61E-08 | 4.26E-10 | 5.66E-09 | 0.37E-10 | 8.37E-10 | 4.14E-10 | 8.20E-09 |
| 1187 | 257940.62 | 4084238.66 | 4.9288E-09 | 6.58E-08 | 1.15E-08 | 1.15E-08 | 6.41E-09 | 1.00E-07 | 7.48E-10 | 1.00E-08 | 1.80E-09 | 1.80E-09 | 9.67E-10 | 1.54E-08 | 4.06E-10 | 5.41E-09 | 7.99E-10 | 7.99E-10 | 3.95E-10 | 7.63E-09 |
| 1188 | 257916.29 | 4084239.66 | 4.712E-09 | 6.29E-08 | 1.10E-08 | 1.10E-08 | 6.13E-09 | 9.58E-08 | 7.13E-10 | 9.59E-09 | 1.72E-09 | 1.72E-09 | 9.44E-10 | 1.47E-08 | 3.88E-10 | 5.19E-09 | 7.64E-10 | 7.64E-10 | 3.78E-10 | 7.48E-09 |
| 1189 | 257891.95 | 4084240.66 | 4.5116E-09 | 6.03E-08 | 1.05E-08 | 1.05E-08 | 5.87E-09 | 9.17E-08 | 6.85E-10 | 9.18E-09 | 1.64E-09 | 1.64E-09 | 9.04E-10 | 1.41E-08 | 3.72E-10 | 4.97E-09 | 7.31E-10 |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 981 | 257606.95 | 4084544.4 | 1.1385E-08 | 1.57E-07 | 2.66E-08 | 2.66E-08 | 1.48E-08 | 2.31E-07 | 1.73E-09 | 2.32E-09 | 4.15E-09 | 4.15E-09 | 2.28E-09 | 3.55E-08 | 9.38E-10 | 1.25E-08 | 1.85E-09 | 1.85E-09 | 9.13E-10 | 1.81E-08 |
| 982 | 257782.62 | 4084545.4 | 1.0577E-08 | 1.41E-07 | 2.47E-08 | 2.47E-08 | 1.38E-08 | 2.15E-07 | 1.61E-09 | 2.15E-08 | 2.85E-09 | 3.85E-09 | 2.12E-09 | 3.30E-08 | 6.72E-10 | 1.16E-08 | 1.71E-09 | 1.71E-09 | 8.49E-10 | 1.68E-08 |
| 983 | 257758.29 | 4084546.4 | 9.8485E-09 | 1.32E-07 | 2.30E-08 | 2.30E-08 | 1.28E-08 | 2.00E-07 | 1.49E-09 | 2.00E-08 | 3.59E-09 | 3.59E-09 | 1.97E-09 | 3.07E-08 | 8.12E-10 | 1.08E-08 | 1.60E-09 | 1.60E-09 | 7.90E-10 | 1.56E-08 |
| 984 | 257733.95 | 4084547.41 | 9.1926E-09 | 1.23E-07 | 2.14E-08 | 2.14E-08 | 1.20E-08 | 1.87E-07 | 1.40E-09 | 1.87E-08 | 3.35E-09 | 3.35E-09 | 1.84E-09 | 2.86E-08 | 7.58E-10 | 1.01E-08 | 1.49E-09 | 1.49E-09 | 7.37E-10 | 1.46E-08 |
| 965 | 257709.62 | 4084548.41 | 8.6059E-09 | 1.15E-07 | 2.01E-08 | 2.01E-08 | 1.12E-08 | 1.75E-07 | 1.31E-09 | 1.75E-08 | 3.13E-09 | 3.13E-09 | 1.72E-09 | 2.68E-08 | 7.09E-10 | 9.48E-09 | 1.39E-09 | 1.39E-09 | 6.90E-10 | 1.37E-08 |
| 986 | 257685.29 | 4084549.41 | 8.0811E-09 | 1.08E-07 | 1.89E-08 | 1.89E-08 | 1.05E-08 | 1.64E-07 | 1.23E-09 | 1.64E-08 | 2.94E-09 | 2.94E-09 | 1.62E-09 | 2.52E-08 | 6.66E-10 | 6.90E-09 | 1.31E-09 | 1.31E-09 | 6.48E-10 | 1.28E-08 |
| 987 | 257660.96 | 4084550.41 | 7.611E-09 | 1.02E-07 | 1.76E-08 | 1.78E-08 | 9.90E-09 | 1.55E-07 | 1.16E-09 | 1.55E-08 | 2.77E-09 | 2.77E-09 | 1.52E-09 | 2.37E-08 | 6.27E-10 | 8.38E-09 | 1.23E-09 | 1.23E-09 | 6.11E-10 | 1.21E-08 |
| 988 | 257636.63 | 4084551.41 | 7.1882E-09 | 9.60E-08 | 1.68E-08 | 1.68E-08 | 9.35E-09 | 1.46E-07 | 1.09E-09 | 1.46E-08 | 2.83E-09 | 2.82E-09 | 1.44E-09 | 2.24E-08 | 5.91E-10 | 7.91E-09 | 1.16E-09 | 1.16E-09 | 5.77E-10 | 1.14E-08 |
| 989 | 257612.29 | 4084552.41 | 6.8074E-09 | 9.09E-08 | 1.59E-08 | 1.59E-08 | 8.85E-09 | 1.38E-07 | 1.03E-09 | 1.39E-08 | 2.68E-09 | 2.68E-09 | 1.36E-09 | 2.12E-08 | 5.61E-10 | 7.50E-09 | 1.10E-09 | 1.10E-09 | 5.46E-10 | 1.08E-08 |
| 990 | 257587.96 | 4084553.41 | 6.4612E-09 | 8.67E-08 | 1.51E-08 | 1.51E-08 | 8.40E-09 | 1.31E-07 | 9.61E-10 | 1.31E-08 | 2.54E-09 | 2.54E-09 | 1.29E-09 | 2.01E-08 | 5.22E-10 | 7.11E-09 | 1.05E-09 | 1.05E-09 | 5.18E-10 | 1.03E-08 |
| 991 | 257563.63 | 4084554.41 | 6.1466E-09 | 8.21E-08 | 1.43E-08 | 1.43E-08 | 7.99E-09 | 1.25E-07 | 9.33E-10 | 1.25E-08 | 2.24E-09 | 2.24E-09 | 1.23E-09 | 1.91E-08 | 5.07E-10 | 6.77E-09 | 9.96E-10 | 9.96E-10 | 4.93E-10 | 6.76E-09 |
| 992 | 257539.3 | 4084555.41 | 5.8545E-09 | 7.82E-08 | 1.27E-08 | 1.37E-08 | 7.62E-09 | 1.19E-07 | 8.89E-10 | 1.19E-08 | 2.13E-09 | 2.13E-09 | 1.17E-09 | 1.82E-08 | 4.83E-10 | 6.45E-09 | 9.49E-10 | 9.49E-10 | 4.70E-10 | 6.30E-08 |
| 993 | 258360.73 | 4084430.85 | 2.5183E-08 | 2.36E-07 | 5.88E-08 | 5.66E-08 | 3.28E-08 | 5.12E-07 | 3.82E-09 | 5.12E-08 | 9.17E-09 | 9.17E-09 | 5.04E-09 | 7.85E-08 | 2.08E-08 | 2.77E-08 | 4.08E-09 | 4.08E-09 | 2.02E-09 | 4.00E-08 |
| 994 | 258383.22 | 4084429.21 | 2.6781E-08 | 3.58E-07 | 6.25E-08 | 8.25E-08 | 3.46E-09 | 5.44E-07 | 4.06E-09 | 5.45E-08 | 9.76E-08 | 9.76E-09 | 5.36E-09 | 6.34E-08 | 2.21E-09 | 2.95E-08 | 4.34E-09 | 4.34E-09 | 2.13E-09 | 4.25E-08 |
| 995 | 258405.91 | 4084447.57 | 2.837E-08 | 3.79E-07 | 6.62E-08 | 6.62E-08 | 3.69E-09 | 5.77E-07 | 4.31E-09 | 5.77E-08 | 1.02E-08 | 1.03E-08 | 5.68E-09 | 8.84E-08 | 2.34E-09 | 3.12E-08 | 4.50E-09 | 4.80E-09 | 2.26E-09 | 4.50E-08 |
| 996 | 258428.51 | 4084455.84 | 2.9954E-08 | 4.00E-07 | 6.99E-08 | 6.99E-08 | 2.90E-08 | 8.09E-07 | 4.35E-09 | 6.30E-08 | 1.09E-08 | 1.09E-08 | 6.00E-09 | 9.33E-08 | 2.47E-09 | 3.30E-08 | 4.85E-09 | 4.85E-09 | 2.40E-09 | 4.76E-09 |
| 957 | 258451.1 | 4084464.3 | 3.149E-08 | 4.21E-07 | 7.35E-08 | 7.35E-08 | 4.10E-08 | 6.40E-07 | 4.78E-09 | 6.41E-08 | 1.15E-08 | 1.15E-08 | 6.31E-09 | 9.61E-08 | 2.60E-09 | 3.47E-08 | 5.10E-09 | 5.10E-09 | 2.51E-09 | 5.00E-08 |
| 998 | 258473.69 | 4084472.67 | 2.3006E-08 | 4.41E-07 | 7.70E-08 | 7.70E-08 | 4.29E-08 | 6.71E-07 | 5.01E-09 | 8.72E-08 | 1.20E-08 | 1.20E-08 | 6.81E-09 | 1.02E-07 | 2.72E-09 | 2.63E-08 | 5.35E-09 | 5.15E-09 | 2.65E-09 | 5.24E-08 |
| 999 | 258496.28 | 4084481.03 | 2.4476E-08 | 4.61E-07 | 8.04E-08 | 8.04E-08 | 4.48E-08 | 7.01E-07 | 5.23E-09 | 7.02E-08 | 1.26E-08 | 1.26E-08 | 6.90E-09 | 1.07E-07 | 2.84E-09 | 2.80E-08 | 5.59E-09 | 5.59E-09 | 2.77E-09 | 5.47E-08 |
| 1000 | 258518.87 | 4084489.39 | 3.5872E-09 | 4.79E-07 | 8.37E-08 | 8.37E-08 | 4.67E-08 | 7.29E-07 | 5.44E-09 | 7.30E-08 | 1.31E-08 | 1.31E-09 | 7.18E-09 | 1.12E-07 | 2.96E-09 | 2.95E-08 | 5.81E-09 | 5.81E-09 | 2.88E-09 | 5.70E-08 |
| 1001 | 258541.46 | 4084497.76 | 3.7171E-08 | 4.97E-07 | 6.67E-08 | 8.67E-08 | 4.84E-08 | 7.56E-07 | 5.64E-09 | 7.58E-08 | 1.35E-08 | 1.35E-08 | 7.44E-09 | 1.16E-07 | 3.06E-09 | 4.09E-08 | 6.02E-09 | 6.02E-09 | 2.98E-09 | 5.90E-08 |
| 1002 | 258564.05 | 4084506.12 | 3.8354E-08 | 5.12E-07 | 8.95E-08 | 6.95E-08 | 4.99E-09 | 7.80E-07 | 5.82E-09 | 7.80E-08 | 1.40E-08 | 1.40E-08 | 7.68E-09 | 1.19E-07 | 3.18E-09 | 4.22E-08 | 6.22E-09 | 6.22E-09 | 3.08E-09 | 6.09E-08 |
| 1003 | 258586.64 | 4084514.49 | 3.9285E-09 | 5.26E-07 | 9.16E-08 | 9.19E-08 | 5.12E-08 | 8.00E-07 | 5.98E-09 | 8.01E-08 | 1.43E-08 | 1.43E-08 | 7.89E-09 | 1.23E-07 | 3.25E-09 | 4.34E-08 | 6.38E-09 | 8.38E-09 | 2.18E-09 | 6.25E-08 |
| 1004 | 258609.22 | 4084522.85 | 4.0236E-08 | 5.37E-07 | 9.39E-08 | 9.39E-08 | 5.23E-08 | 6.18E-07 | 6.11E-09 | 8.19E-08 | 1.47E-08 | 1.47E-08 | 8.06E-09 | 1.25E-07 | 3.32E-09 | 4.45E-08 | 6.52E-09 | 6.52E-09 | 3.23E-09 | 6.39E-08 |
| 1005 | 258631.82 | 4084521.21 | 4.0874E-08 | 5.45E-07 | 9.54E-08 | 9.54E-08 | 5.22E-08 | 8.21E-07 | 6.20E-09 | 8.32E-08 | 1.49E-08 | 1.49E-08 | 8.19E-09 | 1.27E-07 | 3.37E-09 | 4.50E-08 | 6.82E-09 | 6.62E-09 | 3.28E-09 | 6.49E-08 |
| 1006 | 258654.41 | 4084529.58 | 4.1272E-08 | 5.51E-07 | 9.62E-08 | 9.62E-08 | 5.27E-08 | 8.29E-07 | 6.26E-09 | 8.40E-08 | 1.50E-08 | 1.50E-09 | 8.27E-09 | 1.29E-07 | 3.40E-09 | 4.54E-08 | 6.69E-09 | 6.69E-09 | 3.31E-09 | 6.55E-08 |
| 1007 | 258677.01 | 4084547.94 | 4.14E-08 | 5.53E-07 | 9.66E-08 | 9.66E-08 | 5.39E-08 | 8.41E-07 | 6.28E-09 | 8.42E-08 | 1.51E-08 | 1.51E-08 | 8.29E-09 | 1.29E-07 | 3.41E-09 | 4.56E-08 | 6.71E-09 | 6.71E-09 | 3.32E-09 | 6.57E-08 |
| 1008 | 258709.52 | 4084578.25 | 4.2709E-08 | 5.70E-07 | 9.96E-08 | 9.86E-08 | 5.56E-08 | 8.66E-07 | 6.48E-09 | 8.69E-08 | 1.56E-08 | 1.56E-08 | 8.55E-09 | 1.33E-07 | 3.52E-09 | 4.70E-08 | 6.92E-09 | 6.92E-09 | 3.41E-09 | 6.78E-08 |
| 1009 | 258719.46 | 4084600.2 | 4.402E-08 | 5.88E-07 | 1.03E-07 | 1.03E-07 | 5.73E-08 | 8.95E-07 | 6.66E-09 | 8.96E-08 | 1.60E-08 | 1.60E-08 | 8.82E-09 | 1.37E-07 | 3.63E-09 | 4.85E-08 | 7.13E-09 | 7.13E-09 | 3.51E-09 | 6.99E-08 |
| 1010 | 258729.38 | 4084622.15 | 4.5001E-08 | 6.01E-07 | 1.05E-07 | 1.05E-07 | 5.85E-08 | 9.15E-07 | 6.83E-09 | 9.16E-08 | 1.64E-08 | 1.64E-08 | 9.01E-09 | 1.40E-07 | 3.72E-09 | 4.95E-08 | 7.29E-09 | 7.29E-09 | 3.61E-09 | 7.15E-08 |
| 1011 | 258739.31 | 4084644.1 | 4.5593E-08 | 8.09E-07 | 1.06E-07 | 1.06E-07 | 5.93E-09 | 9.27E-07 | 6.91E-09 | 9.26E-08 | 1.66E-08 | 1.68E-08 | 9.11E-09 | 1.42E-07 | 3.76E-09 | 5.02E-08 | 7.39E-09 | 7.39E-09 | 3.66E-09 | 7.24E-08 |
| 1012 | 258749.24 | 4084666.05 | 4.5748E-08 | 6.11E-07 | 1.07E-07 | 1.07E-07 | 5.95E-08 | 9.30E-07 | 6.94E-09 | 9.31E-08 | 1.67E-08 | 1.67E-08 | 9.16E-09 | 1.41E-07 | 3.77E-09 | 5.04E-08 | 7.41E-09 | 7.41E-09 | 3.67E-09 | 7.26E-08 |
| 1013 | 258759.17 | 4084687.99 | 4.5434E-08 | 6.07E-07 | 1.06E-07 | 1.06E-07 | 5.91E-08 | 9.23E-07 | 8.50E-09 | 9.25E-08 | 1.66E-08 | 1.66E-08 | 9.10E-09 | 1.42E-07 | 3.75E-09 | 5.00E-08 | 7.36E-09 | 7.36E-09 | 3.64E-09 | 7.21E-08 |
| 1014 | 258769.1 | 4084709.94 | 4.4644E-08 | 5.96E-07 | 1.04E-07 | 1.04E-07 | 5.81E-08 | 9.07E-07 | 6.78E-09 | 9.08E-08 | 1.63E-08 | 1.63E-08 | 6.94E-09 | 1.39E-07 | 3.68E-09 | 4.92E-08 | 7.24E-09 | 7.24E-09 | 3.58E-09 | 7.09E-08 |
| 1015 | 258779.03 | 4084731.89 | 4.2299E-08 | 5.80E-07 | 1.01E-07 | 1.01E-07 | 5.64E-08 | 8.82E-07 | 6.59E-09 | 8.63E-08 | 1.58E-08 | 1.56E-08 | 6.69E-09 | 1.35E-07 | 3.56E-09 | 4.78E-08 | 7.03E-09 | 7.03E-09 | 3.48E-09 | 6.09E-08 |
| 1016 | 258788.96 | 4084753.84 | 4.175E-08 | 5.58E-07 | 9.74E-08 | 9.74E-08 | 5.41E-08 | 8.49E-07 | 6.34E-09 | 8.50E-08 | 1.52E-08 | 1.52E-08 | 8.36E-09 | 1.30E-07 | 2.44E-09 | 4.60E-08 | 6.77E-09 | 6.77E-09 | 3.35E-09 | 6.63E-08 |
| 1017 | 258798.89 | 4084775.79 | 2.9769E-08 | 5.31E-07 | 9.28E-08 | 9.26E-08 | 5.17E-08 | 8.08E-07 | 8.04E-09 | 8.09E-08 | 1.45E-08 | 1.45E-08 | 7.96E-09 | 1.24E-07 | 3.28E-09 | 4.32E-08 | 6.45E-09 | 6.45E-09 | 3.19E-09 | 6.31E-08 |
| 1018 | 258808.82 | 4084797.72 | 2.7537E-08 | 5.01E-07 | 6.76E-08 | 6.78E-08 | 4.88E-08 | 7.63E-07 | 5.70E-09 | 7.64E-08 | 1.37E-08 | 1.37E-08 | 7.52E-09 | 1.17E-07 | 3.09E-09 | 4.15E-08 | 6.08E-09 | 6.08E-09 | 3.01E-09 | 5.96E-08 |
| 1019 | 258818.75 | 4084819.68 | 2.5147E-08 | 4.69E-07 | 8.20E-08 | 8.20E-08 | 4.57E-08 | 7.14E-07 | 5.31E-09 | 7.15E-08 | 1.28E-06 | 1.28E-08 | 7.04E-09 | 1.10E-07 | 2.90E-09 | 3.87E-08 | 5.70E-09 | 5.70E-09 | 2.82E-09 | 5.58E-08 |
| 1020 | 258828.68 | 4084841.63 | 2.2696E-09 | 4.37E-07 | 7.83E-08 | 7.63E-08 | 4.25E-08 | 6.65E-07 | 4.96E-09 | 6.65E-08 | 1.19E-08 | 1.19E-09 | 6.55E-09 | 1.02E-07 | 2.70E-09 | 2.60E-08 | 5.30E-09 | 5.30E-09 | 2.62E-09 | 5.19E-08 |
| 1031 | 258838.61 | 4084863.58 | 3.0267E-08 | 4.04E-07 | 7.06E-08 | 7.06E-08 | 3.94E-08 | 6.15E-07 | 4.59E-09 | 6.16E-08 | 1.10E-08 | 1.10E-08 | 6.06E-09 | 9.43E-08 | 2.49E-09 | 2.33E-08 | 4.91E-09 | 4.91E-09 | 2.41E-09 | 4.61E-08 |
| 1022 | 258848.54 | 4084885.53 | 3.7917E-08 | 3.73E-07 | 6.51E-08 | 8.51E-08 | 3.61E-08 | 5.67E-07 | 4.24E-09 | 5.68E-08 | 1.02E-08 | 1.02E-08 | 5.59E-09 | 8.70E-08 | 2.30E-09 | 2.07E-08 | 4.52E-09 | 4.52E-09 | 2.24E-09 | 4.41E-08 |
| 1023 | 258338.14 | 4084422.48 | 2.3613E-09 | 3.15E-07 | 5.51E-08 | 5.51E-08 | 2.07E-08 | 4.80E-07 | 2.58E-09 | 4.81E-08 | 6.60E-09 | 8.60E-09 | 4.73E-09 | 7.38E-08 | 1.95E-09 | 2.60E-08 | 2.83E-09 | 2.83E-09 | 1.89E-09 | 2.75E-08 |
| 1024 | 258313.81 | 4084423.48 | 2.2913E-08 | 3.06E-07 | 5.35E-08 | 5.35E-09 | 2.98E-09 | 4.66E-07 | 2.48E-09 | 4.66E-08 | 8.35E-09 | 8.25E-08 | 4.59E-09 | 7.14E-08 | 1.89E-09 | 2.52E-08 | 2.71E-09 | 2.71E-09 | 1.64E-09 | 3.64E-08 |
| 1025 | 258289.48 | 4084424.48 | 2.2173E-08 | 2.86E-07 | 5.17E-08 | 5.17E-08 | 2.88E-08 | 4.51E-07 | 2.37E-09 | 4.51E-08 | 8.08E-09 | 8.08E-09 | 4.46E-09 | 6.91E-08 | 1.83E-08 | 2.44E-08 | 2.59E-09 | 2.59E-09 | 1.78E-09 | 3.52E-08 |
| 1026 | 258265.15 | 4084425.48 | 2.1395E-09 | 2.86E-07 | 4.99E-08 | 4.99E-08 | 2.78E-08 | 4.35E-07 | 2.25E-09 | 4.35E-08 | 7.79E-09 | 7.79E-08 | 4.28E-09 | 6.67E-08 | 1.76E-09 | 2.36E-08 | 2.47E-09 | 2.47E-08 | 1.72E-09 | 3.40E-08 |
| 1027 | 258240.81 | 4084426.48 | 2.0581E-08 | 2.75E-07 | 4.80E-08 | 4.80E-08 | 2.68E-08 | 4.18E-07 | 3.12E-09 | 4.19E-08 | 7.50E-09 | 7.50E-09 | 4.12E-09 | 6.41E-08 | 1.70E-09 | 2.27E-08 | 3.34E-09 | 3.34E-09 | 1.65E-09 | 3.27E-08 |
| 1028 | 258218.48 | 4084427.48 | 1.9737E-09 | 2.64E-07 | 4.60E-08 | 4.80E-08 | 2.57E-08 | 4.01E-07 | 2.00E-09 | 4.02E-08 | 7.19E-09 | 7.19E-09 | 3.95E-09 | 6.15E-09 | 1.63E-09 | 2.17E-08 | 3.20E-09 | 3.20E-08 | 1.58E-09 | 3.13E-08 |
| 1029 | 258162.15 | 4084428.48 | 1.8872E-08 | 2.57E-07 | 4.40E-08 | 4.40E-08 | 2.45E-08 | 3.84E-07 | 2.86E-09 | 3.84E-08 | 6.87E-09 | 6.87E-09 | 3.78E-09 | 5.88E-08 | 1.56E-08 | 2.08E-08 | 3.06E-09 | 3.06E-09 | 1.51E-09 | 2.00E-08 |
| 1030 | 258187.83 | 4084429.48 | 1.7988E-08 | 2.40E-07 | 4.20E-08 | 4.20E-09 | 2.34E-08 | 3.66E-07 | 2.71E-09 | 3.68E-08 | 6.55E-09 | 8.55E-09 | 3.60E-09 | 5.60E-08 | 1.48E-09 | 1.98E-08 | 2.92E-09 | 3.92E-08 | 1.44E-09 | 2.86E-08 |
| 1031 | 258143.49 | 4084430.48 | 1.7099E-08 | 2.28E-07 | 3.99E-08 | 3.99E-08 | 2.22E-09 | 3.48E-07 | 2.50E-09 | 3.48E-08 | 6.23E-09 | 6.23E-09 | 3.42E-09 | 5.13E-08 | 1.41E-09 | 1.88E-08 | 2.77E-09 | 2.77E-09 | 1.37E-09 | 2.72E-08 |
| 1032 | 258119.16 | 4084431.48 | 1.6211E-08 | 2.17E-07 | 3.78E-08 | 3.78E-08 | 2.11E-08 | 3.29E-07 | 2.46E-09 | 3.30E-08 | 5.91E-09 | 5.91E-09 | 3.25E-09 | 5.85E-08 | 1.34E-09 | 1.78E-08 | 2.63E-09 | 2.63E-09 | 1.30E-09 | 2.57E-08 |
| 1033 | 258094.82 | 4084432.49 | 1.5331E-08 | 2.05E-07 | 3.58E-08 | 3.58E-08 | 1.99E-09 | 3.12E-07 | 2.33E-09 | 3.12E-08 | 5.56E-09 | 5.56E-09 | 3.07E-09 | 4.78E-08 | 1.26E-09 | 1.69E-08 | 2.48E-09 | 2.48E-09 | 1.23E-09 | 2.43E-08 |
| 1034 | 258070.49 | 4084433.49 | 1.4471E-08 | 1.95E-07 | 3.35E-08 | 3.38E-08 | 1.88E-08 | 2.94E-07 | 2.20E-09 | 2.94E-08 | 5.37E-09 | 5.27E-09 | 2.90E-09 | 4.51E-08 | 1.19E-09 | 1.59E-08 | 2.35E-09 | 2.35E-09 | 1.16E-09 | 2.30E-08 |
| 1035 | 258046.16 | 4084434.49 | 1.3629E-08 | 1.82E-07 | 3.18E-08 | 3.16E-08 | 1.77E-08 | 2.77E-07 | 2.07E-09 | 2.77E-08 | 4.96E-09 | 4.96E-09 | 2.72E-09 | 4.25E-08 | 1.12E-09 | 1.50E-08 | 2.21E-09 | 2.21E-09 | 1.09E-09 | 2.16E-08 |
| 1036 | 258021.83 | 4084435.46 | 1.2817E-08 | 1.71E-07 | 2.99E-08 | 2.99E-08 | 1.67E-08 | 2.60E-07 | 1.95E-09 | 2.61E-08 | 4.67E-09 | 4.67E-09 | 2.57E-09 | 3.99E-08 | 1.06E-09 | 1.41E-08 | 2.08E-09 | 2.08E-09 | 1.01E-09 | 2.04E-08 |
| 1037 | 257997.5 | 4084436.49 | 1.2039E-08 | 1.61E-07 | 2.81E-08 | 2.81E-08 | 1.57E-09 | 2.45E-07 | 1.83E-09 | 2.45E-08 | 4.39E-09 | 4.39E-09 | 2.41E-09 | 3.75E-08 | 9.92E-10 | 1.33E-08 | 1.95E-09 | 1.95E-09 | 9.66E-10 | 1.91E-08 |
| 1038 | 257972.16 | 4084427.49 | 1.1297E-08 | 1.51E-07 | 2.64E-08 | 2.64E-08 | 1.47E-08 | 2.30E-07 | 1.71E-09 | 2.30E-08 | 4.12E-09 | 4.12E-09 | 2.26E-09 | 3.52E-08 | 9.31E-10 | 1.24E-08 | 1.83E-09 | 1.83E-09 | 9.06E-10 | 1.79E-08 |
| 1029 | 257948.83 | 4084438.49 | 1.0596E-08 | 1.42E-07 | 2.47E-08 | 2.47E-08 | 1.38E-08 | 2.15E-07 | 1.61E-09 | 2.16E-08 | 3.86E-09 | 3.86E-09 | 3.12E-09 | 3.30E-08 | 6.73E-10 | 1.17E-08 | 1.72E-09 | 1.72E-09 | 8.50E-10 | 1.68E-08 |
| 1040 | 257924.5 | 4084439.49 | 9.936E-09 | 1.31E-07 | 2.32E-08 | 2.37E-08 | 1.29E-08 | 2.02E-07 | 1.51E-08 | 2.02E-08 | 2.62E-09 | 3.62E-09 | 1.99E-09 | 2.10E-08 | 6.19E-10 | 1.09E-08 | 1.61E-09 | 1.61E-09 | 7.97E-10 | 1.58E-08 |
| 1041 | 257900.17 | 4084440.49 | 9.3201E-08 | 1.24E-07 | 2.17E-08 | 2.17E-08 | 1.21E-08 | 1.89E-07 | 1.41E-09 | 1.90E-08 | 2.40E-09 | 3.40E-09 | 1.87E-09 | 2.90E-08 | 7.66E-10 | 1.03E-08 | 1.51E-09 | 1.51E-09 | 7.48E-10 | 1.48E-08 |
| 1042 | 257875.84 | 4084441.49 | 8.7462E-09 | 1.17E-07 | 2.04E-08 | 2.04E-08 | 1.14E-08 | 1.78E-07 | 1.33E-09 | 1.78E-08 | 3.19E-09 | 3.19E-09 | 1.75E-09 | 2.72E-08 | 7.21E-10 | 9.63E-09 | 1.42E-09 | 1.42E-09 | 7.02E-10 | 1.39E-08 |
| 1043 | 257851.51 | 4084442.49 | 8.2141E-08 | 1.10E-07 | 1.92E-08 | 1.92E-08 | 1.07E-08 | 1.67E-07 | 1.25E-09 | 1.67E-08 | 2.99E-09 | 2.99E-09 | 1.65E-09 | 2.56E-08 | 6.77E-10 | 9.04E-09 | 1.35E-09 | 1.33E-09 | 6.59E-10 | 1.30E-08 |
| 1044 | 257927.17 | 4084443.49 | 7.7221E-09 | 1.03E-07 | 1.80E-08 | 1.60E-08 | 1.00E-08 | 1.57E-07 | 1.17E-08 | 1.57E-08 | 2.61E-09 | 2.81E-09 | 1.55E-09 | 2.41E-08 | 6.27E-10 | 6.50E-09 | 1.25E-09 | 1.25E-09 | 6.19E-10 | 1.23E-08 |
| 1045 | 257802.84 | 4084444.49 | 7.2721E-09 | 9.71E-08 | 1.70E-08 | 1.70E-08 | 9.48E-09 | 1.48E-07 | 1.10E-09 | 1.48E-08 | 2.65E-09 | 2.65E-09 | 1.48E-09 | 2.27E-08 | 5.99E-10 | 8.01E-09 | 1.18E-09 | 1.18E-09 | 5.83E-10 | 1.15E-08 |
| 1046 | 257778.51 | 4084445.49 | 6.8621E-09 | 9.17E-08 | 1.60E-08 | 1.60E-08 | 8.91E-09 | 1.39E-07 | 1.04E-09 | 1.40E-08 | 2.50E-09 | 2.50E-09 | 1.37E-09 | 2.14E-08 | 5.66E-10 | 7.56E-08 | 1.11E-09 | 1.11E-09 | 5.51E-10 | 1.09E-08 |
| 1047 | 257754.18 | 4084446.49 | 6.4904E-09 | 6.67E-08 | 1.51E-08 | 1.51E-09 | 8.44E-08 | 1.32E-07 | 9.85E-10 | 1.32E-08 | 2.36E-09 | 2.36E-09 | 1.30E-09 | 2.02E-08 | 5.35E-10 | 7.15E-09 | 1.05E-09 | 1.05E-09 | 5.21E-10 | 1.03E-08 |
| 1048 | 257729.85 | 4084447.49 | 6.1569E-09 | 8.22E-08 | 1.44E-08 | 1.44E-08 | 6.01E-09 | 1.25E-07 | 6.34E-10 | 1.25E-08 | 2.24E-09 | 2.24E-09 | 1.22E-09 | 1.92E-08 | 5.08E-10 | 6.78E-09 | 9.94E-10 | 9.98E-10 | 4.94E-10 | 9.78E-09 |
| 1049 | 257705.51 | 4084448.49 | 5.8545E-09 | 7.82E-08 | 1.27E-08 | 1.37E-09 | 7.62E-09 | 1.19E-07 | 8.89E-10 | 1.19E-08 | 2.13E-09 | 2.13E-09 | 1.17E-09 | 1.82E-08 | 4.83E-10 | 6.45E-09 | 9.49E-10 | 9.49E-10 | 4.70E-10 | 9.30E-09 |
| 1050 | 257681.16 | 4084449.49 | 5.583E-09 | 7.46E-08 | 1.30E-08 | 1.30E-08 | 7.26E-09 | 1.13E-07 | 8.47E-10 | 1.14E-08 | 2.03E-09 | 2.03E-09 | 1.12E-09 | 1.74E-08 | 4.50E-10 | 6.15E-09 | 9.05E-10 | 9.05E-10 | 4.48E-10 | 8.86E-09 |
| 1051 | 257656.85 | 4084450.49 | 5.3388E-08 | 7.13E-08 | 1.25E-08 | 1.25E-08 | 6.94E-09 | 1.09E-07 | 8.10E-10 | 1.09E-08 | 1.94E-09 | 1.94E-09 | 1.07E-09 | 1.66E-08 | 4.60E-10 | 5.88E-09 | 8.65E-10 | 8.65E-10 | 4.28E-10 | 8.48E-09 |
| 1052 | 257632.52 | 4084451.46 | 5.1165E-09 | 6.83E-08 | 1.39E-08 | 1.19E-08 | 6.66E-09 | 1.04E-07 | 7.77E-10 | 1.04E-08 | 1.86E-09 | 1.86E-09 | 1.02E-09 | 1.59E-08 | 4.22E-10 | 5.61E-09 | 8.29E-10 | 8.29E-10 | 4.10E-10 | 8.12E-09 |
| 1053 | 257608.19 | 4084452.49 | 4.9142E-09 | 6.56E-08 | 1.15E-08 | 1.15E-08 | 6.39E-09 | 9.95E-08 | 7.46E-10 | 1.00E-08 | 1.79E-09 | 1.79E-09 | 9.84E-10 | 1.51E-08 | 4.05E-10 | 5.41E-09 | 7.96E-10 | 7.98E-10 | 3.94E-10 | 7.80E-09 |
| 1054 | 257583.86 | 4084453.49 | 4.7266E-09 | 8.31E-08 | 1.10E-08 | 1.10E-08 | 6.15E-09 | 9.61E-08 | 7.17E-10 | 9.62E-09 | 1.72E-09 | 1.71E-09 | 9.47E-10 | 1.47E-08 | 3.90E-10 | 5.20E-09 | 7.66E-10 | 7.66E-10 | 3.79E-10 | 7.51E-09 |
| 1055 | 257559.52 | 4084454.49 | 4.5516E-09 | 6.08E-08 | 1.06E-08 | 1.06E-08 | 5.92E-09 | 9.25E-08 | 6.91E-10 | 9.36E-09 | 1.66E-09 | 1.66E-09 | 9.12E-10 | 1.42E-08 | 3.75E-10 | 5.01E-09 | 7.38E-10 | 7.38E-10 | 3.65E-10 | 7.23E-09 |
| 1056 | 257535.19 | 4084455.49 | 4.3877E-09 | 5.86E-08 | 1.02E-08 | 1.02E-08 | 5.71E-09 | 8.92E-08 | 6.66E-10 | 8.91E-09 | 1.60E-09 | 1.60E-09 | 8.78E-10 | 1.37E-08 | 2.62E-10 | 4.63E-09 | 7.11E-10 | 7.11E-10 | 3.52E-10 | 6.97E-09 |
| 1057 | 258356.96 | 4084331.02 | 1.6707E-09 | 2.21E-07 | 3.90E-08 | 3.90E-08 | 2.17E-08 | 2.40E-07 | 2.54E-09 | 2.40E-08 | 6.09E-09 | 6.09E-09 | 3.35E-09 | 5.21E-08 | 1.38E-09 | 1.84E-08 | 2.71E-09 | 2.71E-09 | 1.34E-09 | 2.65E-08 |
| 1056 | 258379.69 | 4084339.47 | 1.7864E-08 | 2.39E-07 | 4.17E-08 | 4.17E-08 | 2.22E-08 | 2.62E-07 | 2.71E-09 | 3.84E-08 | 6.51E-09 | 6.51E-09 | 3.58E-09 | 5.57E-08 | 1.47E-09 | 1.97E-08 | 2.90E-08 | 2.90E-08 | 1.43E-09 | 2.84E-08 |
| 1059 | 258402.52 | 4084347.92 | 1.9047E-08 | 2.54E-07 | 4.44E-08 | 4.44E-08 | 2.42E-08 | 3.87E-07 | 2.89E-09 | 3.88E-08 | 6.94E-09 | 6.94E-09 | 3.81E-09 | 5.91E-08 | 1.57E-09 | 2.10E-08 | 3.09E-08 | 3.09E-08 | 1.52E-09 | 3.02E-08 |
| 1060 | 258425.35 | 4084356.37 | 2.0244E-08 | 2.70E-07 | 4.72E-08 | 4.77E-08 | 2.62E-08 | 4.11E-07 | 2.07E-09 | 4.12E-08 | 7.37E-09 | 7.37E-09 | 4.05E-09 | 8.31E-08 | 1.67E-09 | 2.21E-08 | 3.28E-08 | 3.28E-08 | 1.62E-09 | 3.21E-08 |
| 1061 | 258448.18 | 4084364.83 | 3.1448E-08 | 2.86E-07 | 5.00E-08 | 5.00E-08 | 2.79E-08 | 4.36E-07 | 3.26E-09 | 4.36E-08 | 7.81E-09 | 7.81E-09 | 4.30E-09 | 6.88E-08 | 1.77E-09 | 2.36E-08 | 3.48E-09 | 3.48E-09 | 1.72E-09 | 3.41E-08 |
| 1062 | 258471.01 | 4084373.28 | 2.2653E-09 | 3.03E-07 | 5.28E-08 | 5.28E-09 | 2.95E-08 | 4.80E-07 | 2.44E-09 | 4.61E-08 | 8.25E-09 | 8.25E-09 | 4.54E-08 | 7.06E-08 | 1.87E-09 | 2.49E-08 | 3.87E-09 | 3.67E-08 | 1.82E-09 | 3.60E-08 |
| 1063 | 258492.84 | 4084381.73 | 2.3844E-09 | 3.15E-07 | 5.56E-08 | 5.56E-08 | 2.10E-08 | 4.85E-07 | 2.83E-09 | 4.85E-08 | 8.69E-09 | 8.69E-09 | 4.78E-09 | 7.43E-08 | 1.97E-09 | 2.61E-08 | 3.86E-09 | 3.86E-09 | 1.91E-09 | 2.79E-08 |
| 1064 | 258516.66 | 4084390.18 | 2.5016E-08 | 3.34E-07 | 5.84E-08 | 5.64E-08 | 3.25E-08 | 5.08E-07 | 2.80E-09 | 5.09E-08 | 9.11E-09 | 9.11E-09 | 5.01E-09 | 7.79E-08 | 2.06E-09 | 2.75E-08 | 4.05E-09 | 4.05E-09 | 2.01E-09 | 2.97E-08 |
| 1065 | 258539.49 | 4084298.63 | 2.6155E-08 | 3.49E-07 | 6.10E-08 | 6.10E-09 | 2.40E-08 | 5.32E-07 | 3.97E-09 | 5.32E-08 | 9.51E-08 | 9.52E-09 | 5.24E-09 | 8.15E-08 | 2.16E-09 | 2.85E-08 | 4.24E-09 | 4.24E-09 | 3.10E-09 | 4.15E-08 |
| 1068 | 258562.32 | 4084407.09 | 2.7246E-08 | 3.64E-07 | 8.36E-08 | 6.36E-08 | 3.54E-08 | 5.54E-07 | 4.14E-09 | 5.54E-08 | 9.93E-09 | 9.93E-09 | 5.46E-09 | 8.49E-08 | 2.25E-09 | 3.00E-08 | 4.42E-09 | 4.42E-09 | 2.19E-09 | 4.33E-

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 735 | 257969.6 | 4084837.15 | 1.61E-07 | 2.41E-08 | 4.22E-07 | 4.22E-07 | 2.35E-07 | 3.67E-08 | 2.74E-08 | 2.68E-07 | 6.58E-08 | 6.58E-08 | 3.62E-08 | 5.63E-07 | 1.49E-08 | 1.99E-07 | 2.93E-08 | 2.93E-08 | 1.45E-08 | 2.87E-07 |
| 736 | 257965.26 | 4084836.25 | 1.77E-07 | 2.36E-08 | 4.12E-07 | 4.12E-07 | 2.30E-07 | 2.59E-06 | 2.68E-08 | 3.60E-07 | 6.44E-08 | 6.44E-08 | 3.54E-08 | 5.50E-07 | 1.46E-08 | 1.95E-07 | 2.86E-06 | 2.86E-08 | 1.42E-08 | 2.81E-07 |
| 737 | 257940.93 | 4084839.15 | 1.72E-07 | 2.30E-08 | 4.01E-07 | 4.01E-07 | 2.24E-07 | 2.50E-08 | 2.61E-08 | 3.50E-07 | 6.27E-08 | 6.27E-08 | 3.45E-08 | 5.36E-07 | 1.42E-08 | 1.89E-07 | 2.79E-06 | 2.79E-08 | 1.38E-08 | 2.73E-07 |
| 738 | 257916.6 | 4084840.25 | 1.87E-07 | 2.25E-08 | 2.89E-07 | 3.89E-07 | 2.17E-07 | 3.39E-06 | 2.53E-08 | 3.39E-07 | 6.07E-08 | 6.07E-08 | 2.34E-08 | 5.19E-07 | 1.27E-08 | 1.64E-07 | 2.70E-08 | 2.70E-08 | 1.34E-08 | 2.65E-07 |
| 739 | 257692.27 | 4084841.25 | 1.61E-07 | 2.14E-08 | 2.75E-07 | 3.75E-07 | 2.09E-07 | 3.28E-08 | 2.44E-08 | 2.27E-07 | 5.85E-08 | 5.85E-08 | 2.22E-08 | 5.00E-07 | 1.22E-08 | 1.77E-07 | 2.60E-08 | 2.60E-08 | 1.29E-08 | 2.55E-07 |
| 740 | 257867.94 | 4084842.15 | 1.54E-07 | 2.05E-08 | 3.58E-07 | 3.58E-07 | 2.00E-07 | 3.12E-06 | 2.33E-08 | 3.13E-07 | 5.59E-08 | 5.59E-08 | 2.08E-08 | 4.79E-07 | 1.27E-08 | 1.69E-07 | 2.49E-08 | 2.49E-08 | 1.23E-08 | 2.44E-07 |
| 741 | 257843.6 | 4084842.15 | 1.46E-07 | 1.95E-08 | 2.40E-07 | 2.40E-07 | 1.90E-07 | 2.96E-06 | 2.21E-08 | 2.97E-07 | 5.21E-08 | 5.31E-08 | 2.92E-08 | 4.54E-07 | 1.20E-08 | 1.60E-07 | 2.36E-08 | 2.36E-08 | 1.17E-08 | 2.21E-07 |
| 742 | 257819.27 | 4084844.15 | 1.37E-07 | 1.62E-06 | 3.19E-07 | 3.19E-07 | 1.78E-07 | 2.78E-06 | 2.08E-08 | 2.78E-07 | 4.99E-08 | 4.99E-08 | 2.74E-08 | 4.26E-07 | 1.13E-08 | 1.51E-07 | 2.22E-08 | 2.22E-08 | 1.10E-06 | 2.17E-07 |
| 742 | 257794.94 | 4084845.15 | 1.27E-07 | 1.70E-08 | 2.96E-07 | 2.96E-07 | 1.65E-07 | 2.58E-06 | 1.92E-08 | 2.58E-07 | 4.63E-08 | 4.63E-08 | 2.54E-08 | 2.96E-07 | 1.05E-06 | 1.40E-07 | 2.06E-08 | 2.06E-08 | 1.02E-08 | 2.02E-07 |
| 744 | 257770.61 | 4084846.15 | 1.16E-07 | 1.55E-06 | 2.71E-07 | 2.71E-07 | 1.51E-07 | 2.36E-06 | 1.78E-08 | 2.36E-07 | 4.23E-08 | 4.25E-08 | 2.32E-08 | 3.62E-07 | 9.57E-09 | 1.58E-07 | 1.88E-08 | 1.88E-08 | 9.21E-09 | 1.84E-07 |
| 745 | 257748.26 | 4084847.15 | 1.04E-07 | 1.29E-06 | 2.43E-07 | 2.43E-07 | 1.36E-07 | 2.12E-06 | 1.56E-08 | 2.17E-07 | 2.80E-08 | 2.80E-08 | 2.09E-08 | 2.25E-07 | 8.59E-09 | 1.15E-07 | 1.69E-08 | 1.69E-08 | 6.36E-08 | 1.66E-07 |
| 746 | 257721.95 | 4084848.15 | 9.17E-08 | 1.22E-06 | 2.14E-07 | 2.14E-07 | 1.19E-07 | 1.86E-06 | 1.39E-08 | 1.87E-07 | 2.34E-08 | 2.34E-08 | 2.84E-08 | 2.86E-07 | 7.56E-09 | 1.01E-07 | 1.49E-08 | 1.49E-08 | 7.35E-09 | 1.46E-07 |
| 747 | 257697.61 | 4084849.15 | 7.87E-08 | 1.05E-08 | 1.84E-07 | 1.84E-07 | 1.02E-07 | 1.60E-06 | 1.19E-08 | 1.60E-07 | 2.67E-08 | 2.87E-08 | 1.66E-08 | 2.45E-07 | 6.49E-09 | 6.66E-08 | 1.28E-08 | 1.28E-08 | 6.31E-09 | 1.25E-07 |
| 748 | 257673.26 | 4084850.15 | 6.59E-08 | 8.80E-07 | 1.54E-07 | 1.54E-07 | 6.57E-08 | 1.34E-06 | 9.99E-09 | 1.34E-07 | 2.40E-08 | 2.40E-08 | 1.32E-08 | 2.05E-07 | 5.43E-09 | 7.25E-08 | 1.87E-08 | 1.07E-08 | 5.28E-09 | 1.05E-07 |
| 749 | 257648.95 | 4084851.15 | 5.39E-08 | 7.70E-07 | 1.26E-07 | 1.26E-07 | 7.01E-08 | 1.10E-06 | 8.16E-09 | 1.10E-07 | 1.96E-08 | 1.96E-08 | 1.08E-08 | 1.68E-07 | 4.45E-09 | 5.94E-08 | 6.74E-09 | 8.74E-09 | 4.35E-09 | 8.56E-08 |
| 750 | 257624.62 | 4084852.15 | 4.37E-08 | 5.64E-07 | 1.02E-07 | 1.02E-07 | 5.69E-08 | 8.89E-07 | 6.64E-09 | 6.90E-08 | 1.59E-08 | 1.59E-08 | 8.76E-09 | 1.36E-07 | 3.60E-09 | 4.61E-06 | 7.09E-09 | 7.09E-09 | 2.51E-09 | 6.94E-08 |
| 751 | 257600.29 | 4084853.15 | 2.57E-08 | 4.77E-07 | 6.34E-08 | 8.34E-08 | 4.65E-08 | 7.27E-07 | 5.42E-09 | 7.27E-08 | 1.30E-08 | 1.30E-08 | 7.16E-09 | 1.11E-07 | 2.95E-09 | 3.94E-06 | 5.79E-09 | 5.79E-09 | 2.67E-09 | 5.68E-08 |
| 752 | 257575.95 | 4084634.15 | 2.99E-08 | 4.00E-07 | 6.98E-08 | 6.98E-08 | 3.89E-08 | 6.08E-07 | 4.54E-08 | 6.09E-08 | 1.09E-08 | 1.09E-08 | 5.99E-09 | 9.33E-08 | 2.47E-09 | 3.30E-08 | 4.85E-09 | 4.85E-09 | 2.40E-09 | 4.75E-08 |
| 753 | 257551.62 | 4084855.15 | 2.58E-08 | 3.44E-07 | 6.01E-08 | 6.01E-08 | 2.35E-08 | 5.23E-07 | 2.91E-09 | 5.24E-08 | 9.38E-09 | 9.38E-09 | 5.18E-09 | 8.02E-08 | 2.12E-09 | 2.84E-08 | 4.17E-09 | 4.17E-09 | 2.87E-08 | 4.09E-08 |
| 754 | 258374.21 | 4084780.22 | 1.39E-07 | 1.66E-06 | 3.25E-07 | 3.25E-07 | 1.81E-07 | 2.83E-06 | 2.11E-08 | 2.83E-07 | 5.07E-08 | 5.07E-06 | 2.79E-08 | 4.34E-07 | 1.15E-08 | 1.53E-07 | 2.26E-08 | 2.26E-08 | 1.17E-08 | 2.21E-07 |
| 755 | 258395.89 | 4084788.15 | 1.45E-07 | 1.94E-06 | 3.39E-07 | 2.29E-07 | 1.89E-07 | 2.95E-06 | 2.20E-08 | 2.95E-07 | 5.29E-08 | 5.29E-08 | 2.91E-08 | 4.52E-07 | 1.20E-08 | 1.60E-07 | 2.35E-08 | 2.35E-08 | 1.18E-08 | 2.30E-07 |
| 756 | 258417.58 | 4084796.27 | 1.50E-07 | 2.00E-08 | 2.49E-07 | 2.49E-07 | 1.95E-07 | 3.04E-06 | 2.27E-08 | 2.05E-07 | 5.45E-08 | 5.45E-08 | 3.00E-08 | 4.66E-07 | 1.23E-08 | 1.65E-07 | 2.43E-08 | 2.41E-08 | 1.20E-08 | 2.58E-07 |
| 757 | 258439.27 | 4084804.3 | 1.52E-07 | 2.03E-08 | 2.54E-07 | 2.34E-07 | 1.98E-07 | 3.09E-08 | 2.31E-08 | 3.09E-07 | 5.51E-08 | 5.53E-08 | 2.04E-08 | 4.73E-07 | 1.25E-08 | 1.67E-07 | 2.46E-08 | 2.46E-06 | 1.22E-08 | 2.41E-07 |
| 758 | 258470.49 | 4084822.4 | 1.61E-07 | 2.17E-08 | 2.79E-07 | 2.79E-07 | 2.11E-07 | 2.50E-08 | 2.47E-08 | 2.31E-07 | 5.92E-08 | 5.92E-08 | 3.26E-08 | 5.07E-07 | 1.34E-08 | 1.79E-07 | 2.63E-08 | 2.63E-08 | 1.30E-08 | 2.58E-07 |
| 759 | 258480.02 | 4084854.47 | 1.70E-07 | 2.27E-08 | 3.97E-07 | 2.97E-07 | 2.21E-07 | 2.45E-06 | 2.58E-08 | 3.46E-07 | 6.19E-08 | 6.19E-08 | 3.40E-08 | 5.30E-07 | 1.40E-08 | 1.87E-07 | 2.75E-08 | 2.75E-08 | 1.36E-08 | 2.70E-07 |
| 760 | 258489.55 | 4084875.54 | 1.71E-07 | 2.29E-08 | 4.00E-07 | 4.00E-07 | 2.23E-07 | 2.49E-08 | 2.60E-08 | 2.49E-07 | 6.25E-08 | 6.25E-08 | 3.43E-08 | 5.34E-07 | 1.41E-08 | 1.89E-07 | 2.78E-08 | 2.78E-08 | 1.38E-08 | 2.72E-07 |
| 761 | 258499.08 | 4084896.61 | 1.67E-07 | 2.23E-08 | 2.90E-07 | 2.90E-07 | 2.17E-07 | 3.40E-06 | 2.54E-08 | 3.40E-07 | 6.09E-08 | 6.09E-08 | 2.35E-08 | 5.21E-07 | 1.38E-08 | 1.84E-07 | 2.71E-08 | 2.71E-08 | 1.34E-08 | 2.85E-07 |
| 762 | 258352.52 | 4084772.19 | 1.33E-07 | 1.77E-08 | 3.10E-07 | 2.10E-07 | 1.72E-07 | 2.70E-08 | 2.02E-08 | 2.70E-07 | 4.84E-08 | 4.84E-08 | 2.66E-08 | 4.14E-07 | 1.10E-08 | 1.46E-07 | 2.15E-06 | 2.15E-08 | 1.07E-08 | 2.11E-07 |
| 763 | 258328.19 | 4084773.19 | 1.34E-07 | 1.79E-06 | 3.12E-07 | 3.12E-07 | 1.74E-07 | 2.72E-08 | 2.03E-08 | 2.77E-07 | 4.88E-08 | 4.88E-08 | 2.68E-08 | 4.17E-07 | 1.10E-08 | 1.47E-07 | 2.17E-08 | 2.17E-08 | 1.07E-08 | 2.13E-07 |
| 764 | 258303.85 | 4084774.19 | 1.54E-07 | 1.60E-08 | 3.14E-07 | 3.14E-07 | 1.75E-07 | 2.73E-06 | 2.04E-08 | 2.75E-07 | 4.90E-08 | 4.90E-08 | 2.69E-08 | 4.19E-07 | 1.11E-08 | 1.48E-07 | 2.18E-08 | 2.18E-08 | 1.08E-08 | 2.13E-07 |
| 765 | 258279.52 | 4084775.19 | 1.25E-07 | 1.60E-06 | 3.14E-07 | 2.14E-07 | 1.75E-07 | 2.73E-06 | 2.04E-08 | 2.74E-07 | 4.90E-08 | 4.90E-08 | 2.69E-08 | 4.19E-07 | 1.11E-08 | 1.46E-07 | 2.16E-08 | 2.16E-08 | 1.08E-08 | 2.14E-07 |
| 766 | 258255.19 | 4084776.19 | 1.34E-07 | 1.79E-08 | 3.12E-07 | 3.13E-07 | 1.75E-07 | 2.73E-06 | 2.04E-08 | 2.75E-07 | 4.89E-08 | 4.89E-08 | 2.69E-08 | 4.19E-07 | 1.11E-08 | 1.48E-07 | 2.18E-08 | 2.18E-08 | 1.08E-08 | 2.13E-07 |
| 767 | 258230.86 | 4084777.19 | 1.34E-07 | 1.79E-06 | 3.12E-07 | 3.12E-07 | 1.74E-07 | 2.72E-06 | 2.03E-08 | 2.77E-07 | 4.88E-08 | 4.88E-08 | 2.68E-08 | 4.17E-07 | 1.10E-08 | 1.47E-07 | 2.17E-08 | 2.17E-08 | 1.07E-08 | 2.11E-07 |
| 768 | 258206.52 | 4084778.19 | 1.32E-07 | 1.76E-06 | 3.11E-07 | 3.11E-07 | 1.73E-07 | 2.7 1E-06 | 2.02E-08 | 2.71E-07 | 4.85E-08 | 4.85E-08 | 2.67E-08 | 4.15E-07 | 1.10E-06 | 1.47E-07 | 2.18E-08 | 2.18E-08 | 1.07E-08 | 2.12E-07 |
| 769 | 258182.2 | 4084779.19 | 1.32E-07 | 1.77E-08 | 3.09E-07 | 2.09E-07 | 1.72E-07 | 2.69E-06 | 2.01E-08 | 2.69E-07 | 4.82E-08 | 4.82E-08 | 2.65E-08 | 4.12E-07 | 1.09E-08 | 1.46E-07 | 2.14E-08 | 2.14E-08 | 1.06E-08 | 2.10E-07 |
| 770 | 258157.86 | 4084780.19 | 1.31E-07 | 1.75E-08 | 3.06E-07 | 3.06E-07 | 1.71E-07 | 2.66E-06 | 1.99E-08 | 2.67E-07 | 4.76E-08 | 4.78E-06 | 2.63E-08 | 4.08E-07 | 1.08E-08 | 1.44E-07 | 2.12E-08 | 2.12E-08 | 1.05E-08 | 2.08E-07 |
| 771 | 258133.53 | 4084761.19 | 1.30E-07 | 1.73E-06 | 3.03E-07 | 3.03E-07 | 1.69E-07 | 2.64E-06 | 1.97E-08 | 2.64E-07 | 4.72E-08 | 4.72E-08 | 2.60E-08 | 4.04E-07 | 1.07E-08 | 1.42E-07 | 2.10E-08 | 2.10E-08 | 1.04E-08 | 2.06E-07 |
| 772 | 258109.2 | 4084782.19 | 1.28E-07 | 1.71E-06 | 2.96E-07 | 2.98E-07 | 1.66E-07 | 2.60E-06 | 1.94E-08 | 2.60E-07 | 4.66E-08 | 4.68E-06 | 2.56E-08 | 1.99E-07 | 1.05E-08 | 1.41E-07 | 2.07E-08 | 2.07E-08 | 1.03E-08 | 2.03E-07 |
| 773 | 258084.87 | 4084783.19 | 1.26E-07 | 1.68E-08 | 2.94E-07 | 2.84E-07 | 1.64E-07 | 2.56E-06 | 1.91E-08 | 2.56E-07 | 4.59E-08 | 4.59E-08 | 2.52E-08 | 2.92E-07 | 1.04E-08 | 1.29E-07 | 2.04E-08 | 2.04E-08 | 1.01E-08 | 2.00E-07 |
| 774 | 258060.54 | 4084784.19 | 1.24E-07 | 1.65E-06 | 2.88E-07 | 2.88E-07 | 1.61E-07 | 2.51E-08 | 1.88E-08 | 2.51E-07 | 4.50E-08 | 4.50E-08 | 2.47E-08 | 3.85E-07 | 1.02E-08 | 1.36E-07 | 2.00E-08 | 2.00E-08 | 9.91E-09 | 1.96E-07 |
| 775 | 258036.2 | 4084785.19 | 1.21E-07 | 1.61E-08 | 2.82E-07 | 2.82E-07 | 1.57E-07 | 2.46E-06 | 1.83E-08 | 2.46E-07 | 4.40E-08 | 4.40E-08 | 2.42E-08 | 3.77E-07 | 9.96E-09 | 1.33E-07 | 1.96E-08 | 1.96E-08 | 9.70E-09 | 1.92E-07 |
| 776 | 258011.87 | 4084786.19 | 1.18E-07 | 1.57E-06 | 2.75E-07 | 2.75E-07 | 1.51E-07 | 2.39E-06 | 1.79E-08 | 2.40E-07 | 4.29E-08 | 4.29E-08 | 2.36E-08 | 2.67E-07 | 9.71E-09 | 1.30E-07 | 1.91E-08 | 1.91E-08 | 9.45E-09 | 1.67E-07 |
| 777 | 257987.54 | 4084787.19 | 1.14E-07 | 1.55E-08 | 2.67E-07 | 2.67E-07 | 1.49E-07 | 2.32E-06 | 1.73E-08 | 2.33E-07 | 4.18E-08 | 4.16E-08 | 2.29E-08 | 3.56E-07 | 9.42E-09 | 1.26E-07 | 1.85E-08 | 1.85E-08 | 9.17E-09 | 1.81E-07 |
| 778 | 257962.21 | 4084788.19 | 1.10E-07 | 1.47E-08 | 2.58E-07 | 2.58E-07 | 1.44E-07 | 2.24E-08 | 1.68E-08 | 2.25E-07 | 4.02E-08 | 4.02E-08 | 2.21E-08 | 3.44E-07 | 9.10E-09 | 1.22E-07 | 1.79E-08 | 1.79E-08 | 8.86E-09 | 1.75E-07 |
| 779 | 257938.88 | 4084789.19 | 1.06E-07 | 1.42E-08 | 2.47E-07 | 2.47E-07 | 1.38E-07 | 2.15E-08 | 1.61E-08 | 2.66E-08 | 3.86E-08 | 3.86E-08 | 2.12E-08 | 3.30E-07 | 8.74E-09 | 1.17E-07 | 1.77E-08 | 1.72E-08 | 8.50E-08 | 1.68E-07 |
| 780 | 257914.55 | 4084790.19 | 1.01E-07 | 1.25E-08 | 2.36E-07 | 2.36E-07 | 2.22E-07 | 2.06E-08 | 1.54E-08 | 2.06E-07 | 3.68E-08 | 3.68E-08 | 2.05E-08 | 3.15E-07 | 6.34E-09 | 1.11E-07 | 1.64E-08 | 1.84E-08 | 8.11E-09 | 1.61E-07 |
| 781 | 257890.21 | 4084791.19 | 9.58E-08 | 1.28E-08 | 2.23E-07 | 2.23E-07 | 1.25E-07 | 1.95E-06 | 1.45E-08 | 1.95E-07 | 3.49E-08 | 3.49E-08 | 1.92E-08 | 2.99E-07 | 7.90E-09 | 1.05E-07 | 1.55E-08 | 1.55E-08 | 7.68E-08 | 1.52E-07 |
| 782 | 257865.88 | 4084792.19 | 6.99E-08 | 1.20E-08 | 2.10E-07 | 2.10E-07 | 1.17E-07 | 1.83E-08 | 1.36E-08 | 1.83E-07 | 3.28E-08 | 3.28E-06 | 1.60E-08 | 2.80E-07 | 7.41E-09 | 9.90E-08 | 1.46E-08 | 1.46E-08 | 7.22E-08 | 1.42E-07 |
| 783 | 257841.55 | 4084792.19 | 8.36E-08 | 1.12E-08 | 1.95E-07 | 1.95E-07 | 1.09E-07 | 1.70E-08 | 1.27E-08 | 1.70E-07 | 3.05E-08 | 3.05E-08 | 1.67E-08 | 2.60E-07 | 6.89E-09 | 9.21E-08 | 1.36E-08 | 1.36E-08 | 6.71E-08 | 1.22E-07 |
| 784 | 257817.22 | 4084794.19 | 7.69E-08 | 1.03E-08 | 1.79E-07 | 1.79E-07 | 1.00E-07 | 1.56E-06 | 1.17E-08 | 1.56E-07 | 2.80E-08 | 2.80E-08 | 1.54E-08 | 2.39E-07 | 6.54E-09 | 8.46E-08 | 1.25E-08 | 1.25E-08 | 6.17E-08 | 1.22E-07 |
| 785 | 257792.89 | 4084795.19 | 6.58E-08 | 9.22E-07 | 1.65E-07 | 1.63E-07 | 9.07E-08 | 1.42E-06 | 1.06E-08 | 1.47E-07 | 2.54E-08 | 2.54E-08 | 1.40E-08 | 2.17E-07 | 5.75E-09 | 7.68E-08 | 1.11E-08 | 1.11E-08 | 5.60E-09 | 1.11E-07 |
| 786 | 257768.55 | 4084796.19 | 6.34E-08 | 8.34E-07 | 1.46E-07 | 1.46E-07 | 8.12E-08 | 1.27E-06 | 9.48E-09 | 1.27E-07 | 2.27E-08 | 2.27E-08 | 1.25E-08 | 1.95E-07 | 5.15E-09 | 6.87E-08 | 1.01E-08 | 1.01E-08 | 5.01E-09 | 9.91E-08 |
| 787 | 257744.22 | 4084797.19 | 5.51E-08 | 7.16E-07 | 1.29E-07 | 1.29E-07 | 7.16E-08 | 1.12E-06 | 8.36E-09 | 1.12E-07 | 2.01E-08 | 2.01E-08 | 1.10E-08 | 1.72E-07 | 4.54E-09 | 6.08E-08 | 8.93E-09 | 8.93E-09 | 4.42E-09 | 6.75E-08 |
| 788 | 257719.69 | 4084798.19 | 4.79E-08 | 8.40E-07 | 1.12E-07 | 1.12E-07 | 6.21E-08 | 9.74E-07 | 7.27E-09 | 9.75E-08 | 1.75E-08 | 1.75E-08 | 9.60E-09 | 1.49E-07 | 3.95E-09 | 5.25E-08 | 7.77E-09 | 7.77E-09 | 3.84E-08 | 7.61E-08 |
| 789 | 257695.56 | 4084799.19 | 4.12E-06 | 5.50E-07 | 9.61E-08 | 9.61E-08 | 5.36E-08 | 8.37E-07 | 6.25E-09 | 8.38E-08 | 1.50E-08 | 1.50E-08 | 8.25E-09 | 1.28E-07 | 3.40E-09 | 4.54E-08 | 6.68E-09 | 6.68E-09 | 3.30E-09 | 6.54E-08 |
| 790 | 257671.23 | 4084800.2 | 2.52E-08 | 4.70E-07 | 8.20E-08 | 8.20E-08 | 4.57E-06 | 7.15E-07 | 5.34E-09 | 7.18E-08 | 1.28E-08 | 1.28E-08 | 7.04E-08 | 1.10E-07 | 2.90E-08 | 3.87E-08 | 5.70E-09 | 5.70E-09 | 2.62E-08 | 5.58E-08 |
| 791 | 257648.9 | 4084801.2 | 2.00E-08 | 4.01E-07 | 7.00E-08 | 7.00E-08 | 3.90E-08 | 6.10E-07 | 4.56E-09 | 6.11E-08 | 1.09E-08 | 1.06E-08 | 6.01E-09 | 9.35E-08 | 2.47E-09 | 3.31E-08 | 4.87E-09 | 4.87E-09 | 2.41E-09 | 4.77E-08 |
| 792 | 257622.56 | 4084802.2 | 2.56E-08 | 3.45E-07 | 6.02E-08 | 6.02E-08 | 3.36E-08 | 5.25E-07 | 3.92E-09 | 5.25E-08 | 9.40E-09 | 9.40E-09 | 5.17E-09 | 8.04E-08 | 2.13E-09 | 2.84E-08 | 4.18E-09 | 4.18E-09 | 2.07E-08 | 4.10E-08 |
| 793 | 257598.23 | 4084803.2 | 2.25E-06 | 3.00E-07 | 5.25E-08 | 5.25E-08 | 2.92E-08 | 4.57E-07 | 3.41E-09 | 4.56E-08 | 6.19E-09 | 6.19E-08 | 4.50E-09 | 7.00E-08 | 1.85E-08 | 2.48E-08 | 3.64E-09 | 3.84E-09 | 1.80E-09 | 3.57E-08 |
| 794 | 257573.9 | 4084804.2 | 1.99E-08 | 2.65E-07 | 4.64E-08 | 4.84E-08 | 2.58E-06 | 4.04E-07 | 2.02E-08 | 4.04E-08 | 7.24E-09 | 7.24E-09 | 3.98E-08 | 6.19E-08 | 1.64E-09 | 2.19E-08 | 3.22E-08 | 3.22E-09 | 1.59E-08 | 3.16E-08 |
| 795 | 257549.57 | 4084805.2 | 1.78E-06 | 2.38E-07 | 4.15E-08 | 4.15E-08 | 2.32E-08 | 3.62E-07 | 2.70E-09 | 3.62E-08 | 6.48E-09 | 6.48E-08 | 3.56E-09 | 5.55E-08 | 1.47E-09 | 1.98E-08 | 2.88E-09 | 2.88E-08 | 1.43E-09 | 2.83E-08 |
| 796 | 258371.12 | 4084729.88 | 1.03E-07 | 1.37E-08 | 2.40E-07 | 2.40E-07 | 1.34E-07 | 2.09E-06 | 1.56E-08 | 2.09E-07 | 3.74E-08 | 3.74E-08 | 2.06E-08 | 3.20E-07 | 6.47E-09 | 1.13E-07 | 1.67E-08 | 1.67E-08 | 8.24E-09 | 1.63E-07 |
| 797 | 258412.43 | 4084745.17 | 1.11E-07 | 1.48E-08 | 2.59E-07 | 2.59E-07 | 1.44E-07 | 2.25E-06 | 1.68E-08 | 2.25E-07 | 4.04E-08 | 4.04E-08 | 2.22E-08 | 3.45E-07 | 9.13E-09 | 1.22E-07 | 1.80E-08 | 1.80E-08 | 8.89E-09 | 1.76E-07 |
| 798 | 258452.74 | 4084760.46 | 1.16E-07 | 1.55E-06 | 2.71E-07 | 2.71E-07 | 1.51E-07 | 2.58E-08 | 1.76E-08 | 2.37E-07 | 4.21E-08 | 4.23E-08 | 2.33E-08 | 2.62E-07 | 9.58E-08 | 1.28E-07 | 1.88E-08 | 1.88E-08 | 9.22E-08 | 1.85E-07 |
| 799 | 258504.12 | 4084795.83 | 1.21E-07 | 1.65E-08 | 2.88E-07 | 2.88E-07 | 1.60E-07 | 2.51E-08 | 1.87E-08 | 2.51E-07 | 4.49E-08 | 4.49E-08 | 2.47E-08 | 3.84E-07 | 1.02E-08 | 1.36E-07 | 2.00E-08 | 2.00E-08 | 9.89E-09 | 1.96E-07 |
| 800 | 258522.26 | 4084825.96 | 1.31E-07 | 1.74E-08 | 2.05E-07 | 2.05E-07 | 1.70E-07 | 2.65E-08 | 1.98E-08 | 2.66E-07 | 4.76E-08 | 4.76E-08 | 2.62E-08 | 4.07E-07 | 1.08E-08 | 1.44E-07 | 2.12E-08 | 2.12E-08 | 1.05E-08 | 2.07E-07 |
| 801 | 258540.44 | 4084876.09 | 1.28E-07 | 1.68E-08 | 2.94E-07 | 2.94E-07 | 1.64E-07 | 2.66E-08 | 1.91E-08 | 2.57E-07 | 4.59E-08 | 4.59E-08 | 2.55E-08 | 2.92E-07 | 1.04E-08 | 1.39E-07 | 2.04E-08 | 2.04E-08 | 1.01E-08 | 2.00E-07 |
| 802 | 258326.13 | 4084739.23 | 9.84E-08 | 1.32E-08 | 2.30E-07 | 2.30E-07 | 1.28E-07 | 2.00E-06 | 1.49E-08 | 2.00E-07 | 2.59E-08 | 2.59E-06 | 1.97E-08 | 3.07E-07 | 6.11E-08 | 1.08E-07 | 1.60E-08 | 1.60E-08 | 7.90E-09 | 1.56E-07 |
| 803 | 258301.8 | 4084724.23 | 9.83E-06 | 1.31E-06 | 2.29E-07 | 2.29E-07 | 1.28E-07 | 2.00E-06 | 1.49E-08 | 2.00E-07 | 3.58E-08 | 2.58E-06 | 1.97E-08 | 3.06E-07 | 6.10E-09 | 1.08E-07 | 1.59E-08 | 1.59E-08 | 7.89E-09 | 1.58E-07 |
| 804 | 258277.47 | 4084725.23 | 9.79E-08 | 1.31E-06 | 2.28E-07 | 2.28E-07 | 1.27E-07 | 1.99E-06 | 1.48E-08 | 1.99E-07 | 3.57E-08 | 2.57E-06 | 1.96E-08 | 3.05E-07 | 6.07E-09 | 1.08E-07 | 1.59E-08 | 1.59E-08 | 7.85E-09 | 1.55E-07 |
| 805 | 258253.14 | 4084726.23 | 9.73E-08 | 1.30E-06 | 2.27E-07 | 2.27E-07 | 1.27E-07 | 1.98E-06 | 1.48E-08 | 1.98E-07 | 2.54E-08 | 2.54E-08 | 1.95E-08 | 2.03E-07 | 6.02E-09 | 1.07E-07 | 1.58E-06 | 1.58E-08 | 7.60E-09 | 1.54E-07 |
| 806 | 258228.81 | 4084727.23 | 9.64E-08 | 1.29E-08 | 2.25E-07 | 2.25E-07 | 1.25E-07 | 1.96E-06 | 1.46E-08 | 1.96E-07 | 3.51E-08 | 3.51E-08 | 1.93E-08 | 2.00E-07 | 7.95E-08 | 1.06E-07 | 1.56E-08 | 1.56E-08 | 7.73E-09 | 1.53E-07 |
| 807 | 258204.47 | 4084726.23 | 9.54E-08 | 1.27E-06 | 2.23E-07 | 2.23E-07 | 1.24E-07 | 1.94E-08 | 1.45E-08 | 1.94E-07 | 2.47E-08 | 2.47E-08 | 1.91E-08 | 2.97E-07 | 7.86E-09 | 1.05E-07 | 1.55E-08 | 1.55E-08 | 7.85E-09 | 1.51E-07 |
| 808 | 258180.14 | 4084729.23 | 9.41E-08 | 1.26E-06 | 2.20E-07 | 2.20E-07 | 1.22E-07 | 1.91E-06 | 1.43E-08 | 1.91E-07 | 3.45E-08 | 2.43E-08 | 1.89E-08 | 2.92E-07 | 7.76E-08 | 1.04E-07 | 1.51E-08 | 1.53E-08 | 7.55E-09 | 1.49E-07 |
| 809 | 258155.81 | 4084730.25 | 9.27E-08 | 1.24E-06 | 2.18E-07 | 2.16E-07 | 1.21E-07 | 1.88E-06 | 1.41E-08 | 1.89E-07 | 2.36E-08 | 2.58E-08 | 1.86E-08 | 2.89E-07 | 7.64E-09 | 1.02E-07 | 1.50E-08 | 1.50E-08 | 7.44E-09 | 1.47E-07 |
| 810 | 258131.48 | 4084731.23 | 9.10E-08 | 1.22E-06 | 2.12E-07 | 2.12E-07 | 1.18E-07 | 1.85E-06 | 1.38E-06 | 1.65E-07 | 2.22E-08 | 2.32E-08 | 1.82E-08 | 2.84E-07 | 7.50E-08 | 1.00E-07 | 1.48E-08 | 1.48E-08 | 7.30E-09 | 1.45E-07 |
| 611 | 258107.15 | 4084732.23 | 8.91E-08 | 1.19E-08 | 2.08E-07 | 2.08E-07 | 1.16E-07 | 1.81E-08 | 1.35E-08 | 1.61E-07 | 2.25E-08 | 2.25E-08 | 1.79E-08 | 2.78E-07 | 7.35E-09 | 9.82E-08 | 1.44E-08 | 1.44E-08 | 7.15E-09 | 1.42E-07 |
| 612 | 258082.81 | 4084733.23 | 6.70E-08 | 1.16E-06 | 2.03E-07 | 2.03E-07 | 1.13E-07 | 1.77E-06 | 1.32E-08 | 1.77E-07 | 2.17E-08 | 2.17E-08 | 1.74E-08 | 2.72E-07 | 7.17E-08 | 9.58E-08 | 1.41E-08 | 1.41E-08 | 6.98E-09 | 1.58E-07 |
| 615 | 258058.48 | 4084734.22 | 6.46E-08 | 1.13E-08 | 1.97E-07 | 1.97E-07 | 1.10E-07 | 1.72E-08 | 1.28E-08 | 1.72E-07 | 2.08E-08 | 3.08E-06 | 1.70E-08 | 2.64E-07 | 6.98E-09 | 9.22E-08 | 1.27E-08 | 1.37E-08 | 8.79E-09 | 1.34E-07 |
| 814 | 258034.15 | 4084735.23 | 8.20E-06 | 1.10E-06 | 1.91E-07 | 1.91E-07 | 1.07E-07 | 1.67E-06 | 1.24E-08 | 1.67E-07 | 2.99E-08 | 2.99E-08 | 1.64E-08 | 2.55E-07 | 8.76E-08 | 9.03E-08 | 1.33E-08 | 1.33E-08 | 6.58E-09 | 1.30E-07 |
| 615 | 258009.82 | 4084736.23 | 7.9087E-08 | 1.06E-08 | 1.85E-07 | 1.85E-07 | 1.03E-07 | 1.81E-08 | 1.20E-08 | 1.61E-07 | 2.88E-08 | 2.88E-08 | 1.58E-08 | 2.46E-07 | 6.52E-09 | 8.71E-08 | 1.26E-08 | 1.26E-08 | 6.34E-09 | 1.26E-07 |
| 816 | 257985.49 | 4084737.25 | 7.5886E-08 | 1.01E-08 | 1.77E-07 | 1.77E-07 | 9.67E-06 | 1.54E-06 | 1.15E-06 | 1.54E-07 | 2.76E-08 | 2.76E-08 | 1.52E-08 | 2.36E-07 | 6.06E-08 | 8.36E-08 | 1.22E-08 | 1.23E-08 | 6.09E-08 | 1.20E-07 |
| 617 | 257961.16 | 4084736.23 | 7.2396E-08 | 9.67E-07 | 1.69E-07 | 1.69E-07 | 9.42E-08 | 1.47E-06 | 1.10E-08 | 1.47E-07 | 2.64E-08 | 2.64E-08 | 1.45E-08 | 2.28E-07 | 5.97E-09 | 7.97E-08 | 1.17E-08 | 1.17E-08 | 5.81E-09 | 1.15E-07 |
| 618 | 257936.83 | 4084739.23 | 6.8621E-08 | 9.17E-07 | 1.60E-07 | 1.60E-07 | 8.93E-08 | 1.39E-06 | 1.04E-08 | 1.40E-07 | 2.50E-08 | 2.50E-08 | 1.37E-08 | 2.14E-07 | 5.66E-08 | 7.56E-08 | 1.11E-08 | 1.11E-08 | 5.51E-09 | 1.09E-07 |
| 619 | 257912.49 | 4084740.23 | 6.4578E-08 | 6.63E-07 | 1.51E-07 | 1.51E-07 | 8.40E-08 | 1.21E-08 | 9.80E-09 | 1.21E-07 | 2.25E-08 | 2.25E-08 | 1.29E-08 | 2.01E-07 | 5.32E-09 | 7.11E-08 | 1.05E-08 | 1.05E-08 | 5.18E-09 | 1.03E-07 |
| 820 | 257888.16 | 4084741.23 | 6.0287E-08 | 8.05E-07 | 1.41E-07 | 1.41E-07 | 7.84E-08 | 1.23E-06 | 9.15E-08 | 1.23E-07 | 2.20E-08 | 2.20E-08 | 1.21E-08 | 1.88E-07 | 4.97E-08 | 6.64E-08 | 9.77E-09 | 9.77E-09 | 4.84E-09 | 9.57E-08 |
| 821 | 257863.83 | 4084742.23 | 5.5791E-08 | 7.45E-07 | 1.30E-07 | 1.30E-07 | 7.26E-08 | 1.13E-06 | 8.47E-09 | 1.14E-07 | 2.03E-08 | 2.03E-08 | 1.12E-08 | 1.74E-07

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 812 | 259859.49 | 4084927.81 | 4.23E-09 | 5.65E-08 | 9.87E-09 | 9.87E-09 | 5.50E-09 | 8.60E-08 | 6.42E-10 | 6.81E-09 | 1.54E-09 | 1.54E-09 | 8.47E-10 | 1.32E-08 | 3.49E-10 | 4.66E-09 | 6.85E-10 | 6.85E-10 | 3.39E-10 | 6.72E-09 |
| 813 | 259858.76 | 4084903.06 | 4.25E-08 | 5.82E-08 | 1.02E-08 | 1.02E-08 | 5.66E-08 | 8.85E-08 | 8.61E-10 | 8.66E-09 | 1.59E-09 | 1.59E-09 | 8.72E-10 | 1.36E-08 | 3.59E-10 | 4.79E-09 | 7.06E-10 | 7.06E-10 | 3.49E-10 | 6.91E-09 |
| 814 | 259858.04 | 4084878.3 | 4.48E-08 | 5.98E-08 | 1.05E-08 | 1.05E-08 | 5.83E-09 | 9.11E-08 | 6.60E-10 | 9.12E-09 | 1.83E-09 | 1.63E-09 | 8.97E-10 | 1.40E-08 | 3.69E-10 | 4.93E-09 | 7.26E-10 | 7.28E-10 | 3.59E-10 | 7.11E-09 |
| 815 | 258357.65 | 4084897.08 | 4.35E-07 | 5.81E-08 | 1.01E-06 | 1.01E-06 | 5.63E-07 | 8.83E-06 | 8.60E-08 | 8.84E-07 | 1.58E-07 | 1.58E-07 | 8.70E-08 | 1.35E-06 | 3.58E-08 | 4.79E-07 | 7.04E-08 | 7.04E-08 | 3.49E-08 | 8.90E-07 |
| 818 | 258333.32 | 4084898.08 | 4.55E-07 | 8.08E-06 | 1.06E-06 | 1.06E-06 | 5.92E-07 | 9.25E-06 | 6.91E-08 | 9.26E-07 | 1.66E-07 | 1.68E-07 | 9.11E-08 | 1.43E-06 | 3.75E-08 | 5.01E-07 | 7.37E-08 | 7.37E-08 | 3.83E-08 | 7.22E-07 |
| 817 | 258308.99 | 4084899.08 | 4.66E-07 | 6.22E-06 | 1.09E-06 | 1.09E-06 | 6.06E-07 | 9.46E-06 | 7.07E-08 | 9.47E-07 | 1.70E-07 | 1.70E-07 | 9.32E-08 | 1.45E-06 | 3.84E-08 | 5.13E-07 | 7.53E-08 | 7.55E-08 | 3.73E-08 | 7.39E-07 |
| 818 | 258284.66 | 4084900.08 | 4.72E-07 | 8.31E-06 | 1.10E-06 | 1.10E-06 | 6.15E-07 | 9.80E-06 | 7.17E-08 | 9.61E-07 | 1.72E-07 | 1.72E-07 | 9.46E-08 | 1.47E-06 | 3.89E-08 | 5.20E-07 | 7.66E-08 | 7.66E-08 | 3.79E-08 | 7.50E-07 |
| 819 | 258260.33 | 4084901.08 | 4.77E-07 | 6.38E-06 | 1.11E-06 | 1.11E-06 | 6.21E-07 | 9.70E-06 | 7.24E-08 | 9.71E-07 | 1.74E-07 | 1.74E-07 | 9.56E-08 | 1.49E-06 | 3.93E-08 | 5.26E-07 | 7.74E-08 | 7.74E-08 | 3.81E-08 | 7.58E-07 |
| 820 | 258235.99 | 4084902.08 | 4.81E-07 | 8.42E-06 | 1.12E-06 | 1.12E-06 | 8.25E-07 | 9.77E-06 | 7.30E-08 | 9.78E-07 | 1.75E-07 | 1.75E-07 | 9.63E-08 | 1.50E-06 | 3.96E-08 | 5.29E-07 | 7.79E-08 | 7.79E-08 | 3.86E-08 | 7.83E-07 |
| 821 | 258211.66 | 4084903.08 | 4.83E-07 | 8.43E-06 | 1.13E06 | 1.13E-08 | 8.28E-07 | 9.81E-06 | 7.33E-08 | 9.82E-07 | 1.76E-07 | 1.76E-07 | 9.67E-06 | 1.30E-06 | 3.98E-08 | 5.32E-07 | 7.82E-06 | 7.82E-08 | 3.87E-06 | 7.87E-07 |
| 822 | 258187.33 | 4084904.08 | 4.64E-07 | 8.48E-06 | 1.13E-06 | 1.13E-08 | 6.25E-07 | 9.82E-06 | 7.34E-06 | 9.84E-07 | 1.76E-07 | 1.76E-07 | 9.69E-06 | 1.51E-06 | 3.99E-08 | 5.31E-07 | 7.54E-08 | 7.84E-08 | 3.86E-08 | 7.68E-07 |
| 823 | 258163 | 4084905.08 | 4.64E-07 | 6.46E-06 | 1.13E-06 | 1.13E-08 | 6.25E-07 | 9.83E-06 | 7.34E-08 | 9.83E-07 | 1.76E-07 | 1.76E-07 | 9.69E-08 | 1.51E-06 | 3.99E-08 | 5.33E-07 | 7.84E-08 | 7.54E-08 | 3.82E-08 | 7.66E-07 |
| 824 | 258138.67 | 4084905.08 | 4.84E-07 | 6.46E-06 | 1.13E-06 | 1.13E-08 | 6.25E-07 | 9.83E-06 | 7.34E-08 | 9.84E-07 | 1.76E-07 | 1.76E-07 | 9.68E-08 | 1.51E-06 | 3.99E-08 | 5.32E-07 | 7.84E-08 | 7.84E-08 | 3.85E-08 | 7.66E-07 |
| 825 | 258114.23 | 4084907.08 | 4.83E-07 | 6.43E-06 | 1.13E-06 | 1.13E-08 | 6.28E-07 | 9.81E-06 | 7.23E-08 | 9.82E-07 | 1.76E-07 | 1.76E-07 | 9.67E-08 | 1.50E-06 | 3.98E-08 | 5.32E-07 | 7.82E-08 | 7.82E-08 | 3.87E-06 | 7.67E-07 |
| 828 | 258090 | 4084908.08 | 4.82E-07 | 8.43E-06 | 1.12E-06 | 1.12E-06 | 8.28E-07 | 9.79E-06 | 7.21E-08 | 9.80E-07 | 1.75E-07 | 1.75E-07 | 9.65E-08 | 1.50E-06 | 3.97E-08 | 5.30E-07 | 7.81E-08 | 7.81E-08 | 3.86E-08 | 7.65E-07 |
| 827 | 258065.67 | 4084909.08 | 4.80E-07 | 6.41E-06 | 1.12E-06 | 1.12E-06 | 6.24E-07 | 9.76E-06 | 7.28E-08 | 9.77E-07 | 1.75E-07 | 1.75E-07 | 9.61E-08 | 1.50E-06 | 3.96E-08 | 5.28E-07 | 7.78E-08 | 7.78E-08 | 3.85E-08 | 7.62E-07 |
| 828 | 258041.34 | 4084910.09 | 4.76E-07 | 8.38E-06 | 1.13E-06 | 1.12E-06 | 6.22E-07 | 9.71E-06 | 7.25E-08 | 9.73E-07 | 1.74E-07 | 1.74E-07 | 9.57E-08 | 1.49E-06 | 3.94E-06 | 5.26E-07 | 7.75E-08 | 7.75E-08 | 3.83E-08 | 7.59E-07 |
| 829 | 258017.01 | 4084911.09 | 4.71E-07 | 6.33E-06 | 1.11E-06 | 1.11E-08 | 8.18E-07 | 9.66E-06 | 7.22E-08 | 9.68E-07 | 1.73E-07 | 1.73E-07 | 9.53E-08 | 1.48E-06 | 3.92E-08 | 5.24E-07 | 7.71E-08 | 7.71E-08 | 3.81E-08 | 7.55E-07 |
| 830 | 257992.68 | 4084912.09 | 4.73E-07 | 6.31E-06 | 1.10E-06 | 1.10E-06 | 8.13E-07 | 9.60E-06 | 7.17E-08 | 9.62E-07 | 1.72E-07 | 1.72E-07 | 9.46E-08 | 1.47E-06 | 3.90E-08 | 5.20E-07 | 7.66E-08 | 7.66E-08 | 3.79E-08 | 7.50E-07 |
| 831 | 257968.34 | 4084913.09 | 4.69E-07 | 6.26E-06 | 1.09E-06 | 1.09E-06 | 8.10E-07 | 9.58E-06 | 7.12E-08 | 9.54E-07 | 1.71E-07 | 1.71E-07 | 9.39E-06 | 1.46E-06 | 3.87E-08 | 5.16E-07 | 7.80E-08 | 7.60E-08 | 3.76E-08 | 7.43E-07 |
| 832 | 257944.01 | 4084914.09 | 4.66E-07 | 6.21E-06 | 1.08E-06 | 1.08E-06 | 8.04E-07 | 9.44E-06 | 7.05E-08 | 9.46E-07 | 1.89E-07 | 1.89E-07 | 9.31E-08 | 1.45E-06 | 3.83E-08 | 5.12E-07 | 7.53E-08 | 7.53E-06 | 3.73E-08 | 7.38E-07 |
| 833 | 257919.68 | 4084913.09 | 4.60E-07 | 6.14E-08 | 1.07E-06 | 1.07E-06 | 5.98E-07 | 9.34E-06 | 8.98E-08 | 9.23E-07 | 1.67E-07 | 1.67E-07 | 9.20E-08 | 1.43E-06 | 3.79E-08 | 5.06E-07 | 7.49E-08 | 7.45E-08 | 3.69E-08 | 7.30E-07 |
| 834 | 257695.35 | 4084916.09 | 4.54E-07 | 6.06E-08 | 1.06E-06 | 1.06E-08 | 5.90E-07 | 9.22E-06 | 6.88E-08 | 9.23E-07 | 1.65E-07 | 1.85E-07 | 9.08E-08 | 1.41E-06 | 3.74E-08 | 4.99E-07 | 7.35E-08 | 7.35E-08 | 3.64E-08 | 7.20E-07 |
| 835 | 257871.02 | 4084917.09 | 4.45E-07 | 5.96E-06 | 1.04E-06 | 1.04E-06 | 5.80E-07 | 9.07E-08 | 6.72E-08 | 9.08E-07 | 1.63E-07 | 1.63E-07 | 8.94E-08 | 1.39E-06 | 3.68E-08 | 4.91E-07 | 7.23E-08 | 7.23E-08 | 3.56E-08 | 7.08E-07 |
| 836 | 257846.68 | 4084918.09 | 4.37E-07 | 5.84E-08 | 1.02E-06 | 1.02E-08 | 5.69E-07 | 8.89E-06 | 6.64E-08 | 8.90E-07 | 1.59E-07 | 1.59E-07 | 8.76E-08 | 1.36E-06 | 3.60E-08 | 4.82E-07 | 7.09E-08 | 7.09E-08 | 3.51E-08 | 8.94E-07 |
| 837 | 257822.35 | 4084919.09 | 4.27E-07 | 5.70E-06 | 9.96E-07 | 9.96E-07 | 5.53E-07 | 8.68E-06 | 6.48E-08 | 8.69E-07 | 1.53E-07 | 1.55E-07 | 8.55E-08 | 1.33E-06 | 3.53E-08 | 4.70E-07 | 6.92E-08 | 6.92E-08 | 3.42E-08 | 8.76E-07 |
| 838 | 257798.02 | 4084920.09 | 4.14E-07 | 5.53E-06 | 9.66E-07 | 9.66E-07 | 5.39E-07 | 8.42E-06 | 6.28E-08 | 8.43E-07 | 1.51E-07 | 1.51E-07 | 8.29E-08 | 1.29E-06 | 3.41E-08 | 4.56E-07 | 6.73E-08 | 6.71E-08 | 3.32E-08 | 6.57E-07 |
| 839 | 257773.89 | 4084921.09 | 3.99E-07 | 5.23E-06 | 9.30E-07 | 9.30E-07 | 5.15E-07 | 8.10E-06 | 6.05E-08 | 8.11E-07 | 1.45E-07 | 1.45E-07 | 7.98E-08 | 1.24E-06 | 3.29E-08 | 4.29E-07 | 6.46E-08 | 6.46E-08 | 3.20E-08 | 6.33E-07 |
| 840 | 257249.36 | 4084922.09 | 3.80E-07 | 5.08E-06 | 8.87E-07 | 8.87E-07 | 4.95E-07 | 7.72E-06 | 5.77E-08 | 7.74E-07 | 1.38E-07 | 1.38E-07 | 7.61E-08 | 1.19E-06 | 3.13E-08 | 4.19E-07 | 6.16E-08 | 8.16E-08 | 3.05E-08 | 6.04E-07 |
| 841 | 257225.03 | 4084923.09 | 3.58E-07 | 4.78E-08 | 8.35E-07 | 8.35E-07 | 4.65E-07 | 7.27E-06 | 5.43E-08 | 7.28E-07 | 1.30E-07 | 1.30E-07 | 7.17E-08 | 1.11E-06 | 2.95E-06 | 3.94E-07 | 5.80E-08 | 5.80E-06 | 2.87E-08 | 5.68E-07 |
| 842 | 257700.69 | 4084924.09 | 3.31E-07 | 4.47E-06 | 7.71E-07 | 7.71E-07 | 4.30E-07 | 8.72E-06 | 5.02E-08 | 6.73E-07 | 1.20E-07 | 1.20E-07 | 6.62E-08 | 1.03E-06 | 2.72E-08 | 3.64E-07 | 5.16E-06 | 5.36E-08 | 2.65E-06 | 5.25E-07 |
| 843 | 257676.58 | 4084925.09 | 2.97E-07 | 3.97E-06 | 8.93E-07 | 6.93E-07 | 3.97E-07 | 6.04E-06 | 4.51E-08 | 6.05E-07 | 1.06E-07 | 1.08E-07 | 5.95E-06 | 9.26E-07 | 2.45E-06 | 3.27E-07 | 4.82E-08 | 4.82E-08 | 2.38E-06 | 4.72E-07 |
| 844 | 257652.03 | 4084926.09 | 2.56E-07 | 3.47E-06 | 5.98E-07 | 5.98E-07 | 3.33E-07 | 5.21E-08 | 3.89E-08 | 5.23E-07 | 9.33E-08 | 9.33E-08 | 5.13E-08 | 7.98E-07 | 2.11E-08 | 2.82E-07 | 4.15E-08 | 4.15E-08 | 2.06E-06 | 4.07E-07 |
| 845 | 257827.7 | 4084927.09 | 2.06E-07 | 2.75E-08 | 4.80E-07 | 4.80E-07 | 2.68E-07 | 4.19E-06 | 3.15E-08 | 4.19E-07 | 7.50E-08 | 7.50E-08 | 4.12E-06 | 8.42E-07 | 1.70E-08 | 2.27E-07 | 3.34E-08 | 3.34E-08 | 1.65E-08 | 3.27E-07 |
| 846 | 257603.27 | 4084928.09 | 1.47E-07 | 1.97E-06 | 3.44E-07 | 3.44E-07 | 1.92E-07 | 2.99E-06 | 2.23E-08 | 3.00E-07 | 5.36E-08 | 5.56E-08 | 2.93E-08 | 4.59E-07 | 1.21E-08 | 1.62E-07 | 2.39E-08 | 2.39E-08 | 1.18E-08 | 2.34E-07 |
| 847 | 257579.03 | 4084929.09 | 9.20E-08 | 1.23E-06 | 2.15E-07 | 2.15E-07 | 1.20E-07 | 1.87E-06 | 1.40E-08 | 1.87E-07 | 3.35E-08 | 3.35E-08 | 1.84E-08 | 2.87E-07 | 7.59E-09 | 1.01E-07 | 1.49E-08 | 1.49E-08 | 7.56E-09 | 1.46E-07 |
| 848 | 157554.7 | 4084930.09 | 6.22E-08 | 8.31E-07 | 1.45E-07 | 1.43E-07 | 8.09E-08 | 1.26E-06 | 9.44E-09 | 1.27E-07 | 2.27E-08 | 2.27E-08 | 1.25E-08 | 1.94E-07 | 5.13E-08 | 6.85E-08 | 1.01E-08 | 1.01E-08 | 4.99E-09 | 9.86E-08 |
| 849 | 258374.7 | 4084878.79 | 3.23E-07 | 4.31E-06 | 7.55E-07 | 7.51E-07 | 4.20E-07 | 8.56E-08 | 4.90E-08 | 6.57E-07 | 1.18E-07 | 1.19E-07 | 6.46E-08 | 1.01E-06 | 2.66E-08 | 3.95E-07 | 5.23E-08 | 5.23E-08 | 2.59E-08 | 5.32E-07 |
| 850 | 258332.29 | 4084873.1 | 3.16E-07 | 4.22E-06 | 7.38E-07 | 7.38E-07 | 4.11E-07 | 6.43E-06 | 4.80E-08 | 6.44E-07 | 1.15E-07 | 1.15E-07 | 6.39E-08 | 9.85E-07 | 2.61E-08 | 3.48E-07 | 5.13E-08 | 5.13E-08 | 2.54E-08 | 5.02E-07 |
| 851 | 258107.96 | 4084874.1 | 3.22E-07 | 4.30E-06 | 7.50E-07 | 7.50E-07 | 4.18E-07 | 6.54E-06 | 4.88E-08 | 8.54E-07 | 1.17E-07 | 1.17E-07 | 6.44E-08 | 1.00E-06 | 2.65E-08 | 3.54E-07 | 5.21E-08 | 5.21E-08 | 2.58E-08 | 5.11E-07 |
| 852 | 258283.63 | 4084875.1 | 3.23E-07 | 4.34E-06 | 7.59E-07 | 7.59E-07 | 4.23E-07 | 6.61E-06 | 4.94E-08 | 8.62E-07 | 1.18E-07 | 1.18E-07 | 8.51E-08 | 1.01E-06 | 2.68E-08 | 3.58E-07 | 5.27E-08 | 5.27E-08 | 2.61E-06 | 5.18E-07 |
| 853 | 258259.3 | 4084876.1 | 3.28E-07 | 4.38E-06 | 7.65E-07 | 7.65E-07 | 4.26E-07 | 6.68E-06 | 4.97E-08 | 6.87E-07 | 1.19E-07 | 1.19E-07 | 6.56E-08 | 1.02E-06 | 2.70E-08 | 3.81E-07 | 5.31E-08 | 5.21E-08 | 2.63E-08 | 5.20E-07 |
| 854 | 258234.97 | 4084872.1 | 3.29E-07 | 4.40E-06 | 7.69E-07 | 7.69E-07 | 4.29E-07 | 6.70E-06 | 5.00E-08 | 6.70E-07 | 1.20E-07 | 1.20E-07 | 6.60E-08 | 1.03E-06 | 2.72E-08 | 3.62E-07 | 5.34E-08 | 5.34E-08 | 2.64E-08 | 5.23E-07 |
| 855 | 258210.64 | 4084878.1 | 3.31E-07 | 4.42E-06 | 7.71E-07 | 7.71E-07 | 4.30E-07 | 6.72E-06 | 5.02E-08 | 8.73E-07 | 1.20E-07 | 1.20E-07 | 6.81E-08 | 1.03E-06 | 2.72E-08 | 3.64E-07 | 5.36E-08 | 5.36E-08 | 2.65E-08 | 5.25E-07 |
| 856 | 258186.3 | 4084879.1 | 3.31E-07 | 4.42E-06 | 7.72E-07 | 7.72E-07 | 4.31E-07 | 6.73E-06 | 5.03E-08 | 6.74E-07 | 1.21E-07 | 1.21E-07 | 8.63E-08 | 1.03E-06 | 2.73E-08 | 3.65E-07 | 5.37E-08 | 5.27E-08 | 2.66E-08 | 5.26E-07 |
| 857 | 258161.97 | 4084880.1 | 3.21E-07 | 4.42E-06 | 7.71E-07 | 7.72E-07 | 4.31E-07 | 6.73E-06 | 5.03E-08 | 6.74E-07 | 1.21E-07 | 1.21E-07 | 6.83E-08 | 1.03E-06 | 2.73E-08 | 3.65E-07 | 5.37E-08 | 5.37E-08 | 2.66E-08 | 5.26E-07 |
| 858 | 258157.64 | 4084881.1 | 3.31E-07 | 4.42E-06 | 7.72E-07 | 7.72E-07 | 4.30E-07 | 6.72E-06 | 5.02E-08 | 6.73E-07 | 1.21E-07 | 1.23E-07 | 6.63E-08 | 1.03E-06 | 2.73E-08 | 3.64E-07 | 5.36E-08 | 5.36E-08 | 2.65E-06 | 5.25E-07 |
| 859 | 258113.21 | 4084882.11 | 3.30E-07 | 4.41E-08 | 7.70E-07 | 7.70E-07 | 4.29E-07 | 6.71E-06 | 5.01E-08 | 6.72E-07 | 1.20E-07 | 1.20E-07 | 8.81E-08 | 1.03E-08 | 2.72E-08 | 3.63E-07 | 5.35E-08 | 5.35E-08 | 2.65E-08 | 5.24E-07 |
| 860 | 258088.98 | 4084883.11 | 3.29E-07 | 4.39E-06 | 7.67E-07 | 7.67E-07 | 4.28E-07 | 6.69E-06 | 4.99E-08 | 6.69E-07 | 1.20E-07 | 1.20E-07 | 8.59E-08 | 1.02E-06 | 2.72E-08 | 3.62E-07 | 5.33E-08 | 5.33E-08 | 2.64E-08 | 5.22E-07 |
| 861 | 258064.64 | 4084884.11 | 3.27E-07 | 4.37E-08 | 7.64E-07 | 7.64E-07 | 4.26E-07 | 6.65E-06 | 4.97E-08 | 6.66E-07 | 1.19E-07 | 1.19E-07 | 6.54E-08 | 1.02E-06 | 2.70E-08 | 3.60E-07 | 5.30E-08 | 5.30E-08 | 2.63E-08 | 5.20E-07 |
| 862 | 258040.31 | 4084885.11 | 3.25E-07 | 4.34E-08 | 7.59E-07 | 7.59E-07 | 4.23E-07 | 6.61E-06 | 4.94E-08 | 8.82E-07 | 1.18E-07 | 1.18E-07 | 6.51E-08 | 1.01E-06 | 2.68E-08 | 3.58E-07 | 5.27E-08 | 5.27E-08 | 2.61E-08 | 5.16E-07 |
| 863 | 258015.98 | 4084886.11 | 3.23E-07 | 4.31E-08 | 7.53E-07 | 7.53E-07 | 4.20E-07 | 8.58E-06 | 4.90E-08 | 8.56E-07 | 1.18E-07 | 1.16E-07 | 6.46E-08 | 1.03E-06 | 2.66E-08 | 3.55E-07 | 5.23E-08 | 5.23E-08 | 2.59E-08 | 5.12E-07 |
| 864 | 257991.65 | 4084887.11 | 3.19E-07 | 4.27E-06 | 7.45E-07 | 7.45E-07 | 4.15E-07 | 6.49E-06 | 4.85E-08 | 6.50E-07 | 1.16E-07 | 1.16E-07 | 6.40E-08 | 9.95E-07 | 2.63E-08 | 3.51E-07 | 5.18E-08 | 5.18E-08 | 2.56E-08 | 5.07E-07 |
| 865 | 257967.32 | 4084888.11 | 3.16E-07 | 4.21E-08 | 7.56E-07 | 7.38E-07 | 4.10E-07 | 6.41E-06 | 4.79E-08 | 6.42E-07 | 1.13E-07 | 1.15E-07 | 6.32E-08 | 9.83E-07 | 2.60E-08 | 3.47E-07 | 5.11E-08 | 5.11E-08 | 2.55E-08 | 5.01E-07 |
| 866 | 257942.99 | 4084889.11 | 3.11E-07 | 4.15E-06 | 7.25E-07 | 7.23E-07 | 4.04E-07 | 6.32E-06 | 4.72E-08 | 8.33E-07 | 1.13E-07 | 1.13E-07 | 6.23E-08 | 9.69E-07 | 2.56E-08 | 3.42E-07 | 5.04E-08 | 5.04E-08 | 2.49E-08 | 4.94E-07 |
| 867 | 257918.65 | 4084890.11 | 3.06E-07 | 4.08E-08 | 7.15E-07 | 7.13E-07 | 3.98E-07 | 6.21E-06 | 4.64E-08 | 6.22E-07 | 1.11E-07 | 1.11E-07 | 6.13E-08 | 9.53E-07 | 2.53E-08 | 3.37E-07 | 4.95E-08 | 4.95E-08 | 2.45E-08 | 4.85E-07 |
| 868 | 257894.32 | 4084891.11 | 2.99E-07 | 4.00E-06 | 8.99E-07 | 8.99E-07 | 3.89E-07 | 6.09E-06 | 4.54E-08 | 6.09E-07 | 1.09E-07 | 1.09E-07 | 8.00E-08 | 9.23E-07 | 2.47E-08 | 3.30E-07 | 4.85E-08 | 4.85E-08 | 2.40E-08 | 4.75E-07 |
| 869 | 257689.99 | 4084892.11 | 2.92E-07 | 3.90E-08 | 6.81E-07 | 6.81E-07 | 3.80E-07 | 5.94E-06 | 4.43E-08 | 5.94E-07 | 1.06E-07 | 1.06E-07 | 5.85E-08 | 9.10E-07 | 2.41E-08 | 3.22E-07 | 4.73E-06 | 4.79E-08 | 2.34E-08 | 4.64E-07 |
| 870 | 257845.66 | 4084893.11 | 2.83E-07 | 3.78E-08 | 6.61E-07 | 6.61E-07 | 3.69E-07 | 5.76E-06 | 4.30E-08 | 5.77E-07 | 1.03E-07 | 1.03E-07 | 5.67E-08 | 8.83E-07 | 2.34E-08 | 3.12E-07 | 4.59E-08 | 4.59E-08 | 2.27E-08 | 4.50E-07 |
| 871 | 257821.33 | 4084894.11 | 2.73E-07 | 3.85E-06 | 6.37E-07 | 6.37E-07 | 3.55E-07 | 5.55E-06 | 4.14E-08 | 5.36E-07 | 9.95E-08 | 9.95E-08 | 5.47E-08 | 8.51E-07 | 2.25E-08 | 3.01E-07 | 4.43E-06 | 4.43E-08 | 2.19E-08 | 4.34E-07 |
| 872 | 257796.99 | 4084895.11 | 2.61E-07 | 3.49E-06 | 6.09E-07 | 6.09E-07 | 3.39E-07 | 5.30E-06 | 3.96E-08 | 5.31E-07 | 9.51E-08 | 9.51E-08 | 5.23E-08 | 8.13E-07 | 2.15E-08 | 2.87E-07 | 4.23E-06 | 4.23E-08 | 2.09E-08 | 4.14E-07 |
| 873 | 257772.68 | 4084896.11 | 2.47E-07 | 3.30E-06 | 5.76E-07 | 5.76E-07 | 3.23E-07 | 5.02E-06 | 3.75E-08 | 5.02E-07 | 8.99E-06 | 8.99E-08 | 4.94E-08 | 7.69E-07 | 2.03E-08 | 2.77E-07 | 4.00E-06 | 4.00E-08 | 1.98E-08 | 3.92E-07 |
| 874 | 257248.33 | 4084897.11 | 2.30E-07 | 3.07E-06 | 5.37E-07 | 5.37E-07 | 2.99E-07 | 4.66E-08 | 3.49E-08 | 4.68E-07 | 8.38E-08 | 8.38E-08 | 4.61E-08 | 7.17E-07 | 1.90E-08 | 2.53E-07 | 3.73E-08 | 3.73E-08 | 1.85E-08 | 3.65E-07 |
| 875 | 257224 | 4084898.11 | 2.11E-07 | 2.81E-06 | 4.92E-07 | 4.92E-07 | 2.74E-07 | 4.28E-06 | 3.20E-06 | 4.29E-07 | 7.66E-08 | 7.68E-08 | 4.22E-08 | 8.56E-07 | 1.74E-08 | 2.31E-07 | 3.41E-08 | 3.41E-08 | 1.69E-08 | 3.23E-07 |
| 876 | 257699.67 | 4084899.11 | 1.88E-07 | 2.51E-06 | 4.39E-07 | 4.39E-07 | 2.45E-07 | 3.82E-06 | 2.86E-08 | 3.83E-07 | 8.88E-08 | 6.86E-08 | 3.72E-08 | 5.66E-07 | 1.55E-08 | 2.07E-07 | 3.05E-08 | 3.05E-08 | 1.51E-08 | 2.99E-07 |
| 872 | 257675.34 | 4084900.11 | 1.62E-07 | 2.17E-08 | 3.79E-07 | 3.79E-07 | 2.13E-07 | 3.30E-06 | 2.47E-08 | 3.31E-07 | 5.92E-08 | 5.92E-08 | 3.25E-08 | 5.06E-07 | 1.34E-08 | 1.79E-07 | 2.83E-08 | 2.63E-08 | 1.30E-08 | 2.58E-07 |
| 878 | 257851 | 4084901.11 | 1.34E-07 | 1.79E-08 | 3.12E-07 | 3.12E-07 | 1.74E-07 | 2.72E-06 | 2.03E-08 | 2.72E-07 | 4.87E-08 | 4.87E-08 | 2.66E-08 | 4.17E-07 | 1.10E-08 | 1.47E-07 | 2.17E-08 | 2.17E-08 | 1.07E-08 | 2.12E-07 |
| 879 | 257626.67 | 4084902.11 | 1.04E-07 | 1.38E-08 | 2.42E-07 | 2.42E-07 | 1.35E-07 | 2.11E-06 | 1.57E-08 | 2.11E-07 | 3.77E-08 | 3.77E-08 | 2.07E-08 | 3.23E-07 | 8.54E-09 | 1.14E-07 | 1.68E-08 | 1.66E-08 | 8.31E-08 | 1.64E-07 |
| 880 | 157602.34 | 4084903.11 | 7.57E-08 | 1.01E-08 | 1.77E-07 | 1.77E-07 | 9.84E-06 | 1.54E-06 | 1.15E-08 | 1.54E-07 | 2.76E-08 | 2.76E-08 | 1.52E-08 | 2.36E-07 | 6.24E-09 | 8.33E-08 | 1.23E-08 | 1.23E-08 | 6.07E-09 | 1.20E-07 |
| 881 | 257578.01 | 4084904.11 | 5.51E-08 | 7.35E-07 | 1.28E-07 | 1.28E-07 | 7.16E-06 | 1.12E-06 | 8.38E-09 | 1.12E-07 | 2.01E-08 | 2.01E-08 | 1.10E-08 | 1.72E-07 | 4.54E-09 | 6.06E-08 | 8.92E-09 | 8.92E-09 | 4.42E-09 | 6.74E-08 |
| 882 | 257553.68 | 4084905.11 | 4.25E-08 | 5.73E-07 | 1.00E-07 | 1.00E-07 | 5.58E-06 | 6.72E-07 | 6.51E-09 | 8.73E-08 | 1.58E-06 | 1.56E-08 | 8.59E-06 | 1.34E-07 | 3.54E-09 | 4.72E-08 | 8.95E-09 | 6.95E-09 | 3.44E-09 | 6.81E-08 |
| 883 | 258373.67 | 4084853.81 | 2.48E-07 | 3.31E-08 | 5.78E-07 | 5.78E-07 | 3.22E-07 | 5.03E-06 | 3.76E-08 | 5.04E-07 | 9.02E-08 | 9.02E-08 | 4.96E-08 | 7.72E-07 | 2.04E-08 | 2.73E-07 | 4.01E-06 | 4.01E-08 | 1.98E-08 | 3.93E-07 |
| 884 | 258417.76 | 4084884.76 | 2.80E-07 | 3.74E-06 | 6.53E-07 | 6.53E-07 | 3.64E-07 | 5.69E-06 | 4.25E-08 | 5.70E-07 | 1.02E-07 | 1.02E-07 | 5.61E-08 | 6.72E-07 | 2.31E-08 | 3.08E-07 | 4.54E-08 | 4.54E-08 | 2.25E-08 | 4.43E-07 |
| 885 | 258331.27 | 4084848.12 | 2.41E-07 | 3.22E-06 | 5.63E-07 | 5.63E-07 | 3.14E-07 | 4.90E-06 | 3.68E-08 | 4.91E-07 | 6.79E-08 | 8.79E-08 | 4.83E-08 | 7.51E-07 | 1.99E-08 | 2.68E-07 | 3.91E-08 | 3.91E-08 | 1.94E-08 | 3.83E-07 |
| 886 | 258306.94 | 4084849.12 | 2.44E-07 | 3.26E-06 | 5.70E-07 | 5.70E-07 | 3.16E-07 | 4.97E-06 | 3.71E-08 | 4.97E-07 | 8.90E-08 | 8.90E-08 | 4.89E-08 | 7.81E-07 | 2.01E-08 | 2.69E-07 | 3.96E-08 | 3.96E-06 | 1.96E-08 | 3.88E-07 |
| 887 | 258282.6 | 4084850.12 | 2.46E-07 | 3.29E-06 | 5.75E-07 | 5.71E-07 | 3.21E-07 | 5.01E-06 | 3.74E-08 | 5.01E-07 | 6.96E-08 | 8.98E-08 | 4.93E-08 | 7.68E-07 | 2.03E-08 | 2.71E-07 | 3.99E-08 | 3.99E-08 | 1.98E-08 | 3.91E-07 |
| 888 | 258258.27 | 4084851.12 | 2.45E-07 | 3.31E-06 | 5.76E-07 | 5.78E-07 | 3.22E-07 | 5.04E-08 | 3.76E-08 | 5.04E-07 | 9.03E-08 | 9.03E-08 | 4.96E-08 | 7.72E-07 | 2.04E-08 | 2.72E-07 | 4.02E-08 | 4.02E-08 | 1.99E-08 | 3.93E-07 |
| 889 | 258233.94 | 4084852.12 | 2.49E-07 | 3.32E-06 | 5.80E-07 | 5.80E-07 | 3.23E-07 | 5.05E-08 | 3.72E-08 | 5.06E-07 | 9.06E-08 | 9.06E-08 | 4.98E-08 | 7.73E-07 | 2.05E-08 | 2.74E-07 | 4.03E-06 | 4.03E-08 | 1.99E-08 | 3.95E-07 |
| 890 | 258209.61 | 4084853.13 | 2.49E-07 | 3.33E-06 | 5.81E-07 | 5.81E-07 | 3.24E-07 | 5.06E-08 | 3.78E-08 | 5.07E-07 | 9.07E-08 | 9.07E-08 | 4.99E-08 | 7.76E-07 | 2.05E-08 | 2.74E-07 | 4.04E-06 | 4.04E-08 | 2.00E-08 | 3.96E-07 |
| 891 | 258185.28 | 4084834.13 | 2.49E-07 | 3.33E-06 | 5.81E-07 | 5.81E-07 | 3.24E-07 | 5.06E-08 | 3.76E-06 | 5.07E-07 | 9.07E-08 | 9.07E-08 | 4.99E-08 | 7.78E-07 | 2.05E-08 | 2.74E-07 | 4.04E-06 | 4.04E-08 | 2.00E-08 | 3.96E-07 |
| 892 | 258160.94 | 4084856.13 | 2.49E-07 | 3.22E-06 | 5.80E-07 | 5.80E-07 | 3.23E-07 | 5.05E-08 | 3.72E-08 | 5.06E-07 | 9.06E-08 | 9.06E-08 | 4.98E-08 | 7.71E-07 | 2.05E-08 | 2.74E-07 | 4.03E-08 | 4.03E-08 | 2.00E-08 | 3.95E-07 |
| 893 | 258136.61 | 4084856.13 | 2.48E-07 | 3.31E-06 | 5.78E-07 | 5.78E-07 | 3.27E-07 | 5.04E-06 | 3.76E-08 | 5.05E-07 | 9.03E-08 | 9.03E-08 | 4.97E-08 | 7.72E-07 | 2.04E-08 | 2.73E-07 | 4.02E-08 | 4.02E-08 | 1.99E-08 | 3.94E-07 |
| 894 | 258112.28 | 4084857.15 | 2.47E-07 | 3.30E-06 | 5.76E-07 | 5.76E-07 | 3.21E-07 | 5.02E-06 | 3.75E-06 | 5.02E-07 | 8.99E-08 | 8.99E-08 | 4.94E-08 | 7.69E-07 | 2.03E-08 | 2.72E-07 | 4.00E-08 | 4.00E-08 | 1.98E-08 | 3.92E-07 |
| 895 | 258087.95 | 4084856.13 | 2.45E-07 | 3.28E-06 | 5.72E-07 | 5.72E-07 | 3.19E-07 | 4.99E-06 | 3.73E-08 | 4.99E-07 | 8.94E-08 | 8.94E-08 | 4.91E-08 | 7.64E-07 | 2.02E-08 | 2.70E-07 | 3.98E-08 | 3.98E-08 | 1.97E-08 | 3.90E-07 |
| 896 | 258063.62 | 4084859.15 | 2.43E-07 | 3.25E-06 | 5.66E-07 | 5.68E-07 | 3.17E-07 | 4.95E-06 | 3.69E-08 | 4.95E-07 | 8.87E-08 | 8.87E-08 | 4.88E-08 | 7.58E-07 | 2.01E-08 | 2.68E-07 | 3.95E-08 | 3.95E-08 | 1.95E-08 | 3.87E-07 |
| 897 | 258039.29 | 4084860.13 | 2.41E-07 | 3.22E-08 | 5.63E-07 | 5.63E-07 | 3.14E-07 | 4.90E-06 | 3.66E-08 | 4.91E-07 | 8.78E-08 | 6.78E-06 | 4.83E-08 | 7.51E-07 | 1.99E-08 | 2.66E-07 | 3.91E-08 | 3.91E-08 | 1.93E-08 | 3.83E-07 |
| 898 | 258014.95 | 4084861.15 | 2.36E-07 | 3.18E-08 | 5.58E-07 | 5.56E-07 | 3.10E-07 | 4.84E-06 | 3.62E-08 | 4.85E-07 | 8.68E-08 | 8.68E-08 | 4.77E-06 | 7.43E-07 | 1.96E-06 | 2.62E-07

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 489 | 258824.66 | 4086332.6 | 3.83E-09 | 5.11E-08 | 8.93E-09 | 8.93E-09 | 4.98E-09 | 7.76E-08 | 5.81E-10 | 7.79E-09 | 1.39E-09 | 1.39E-09 | 7.68E-10 | 1.19E-09 | 3.15E-10 | 4.21E-09 | 6.20E-10 | 6.20E-10 | 3.07E-10 | 6.06E-09 |
| 490 | 258802.79 | 4086242.95 | 3.87E-09 | 5.17E-08 | 9.03E-09 | 9.03E-09 | 5.04E-09 | 7.87E-08 | 5.88E-10 | 7.68E-09 | 1.41E-09 | 1.41E-09 | 7.75E-10 | 1.21E-09 | 3.19E-10 | 4.26E-09 | 6.28E-10 | 6.28E-10 | 3.11E-10 | 6.12E-09 |
| 491 | 258779.92 | 4086253.3 | 3.91E-09 | 5.22E-08 | 9.12E-09 | 9.12E-09 | 5.09E-09 | 7.95E-08 | 5.93E-10 | 7.90E-09 | 1.42E-09 | 1.42E-09 | 7.83E-10 | 1.22E-09 | 3.22E-10 | 4.31E-09 | 6.34E-10 | 6.34E-10 | 3.14E-10 | 6.21E-09 |
| 492 | 258757.55 | 4086263.64 | 3.94E-09 | 5.26E-08 | 9.16E-09 | 9.19E-09 | 5.12E-09 | 8.01E-08 | 5.98E-10 | 8.02E-09 | 1.44E-09 | 1.44E-09 | 7.89E-10 | 1.23E-08 | 3.25E-10 | 4.34E-09 | 6.38E-10 | 6.38E-10 | 3.16E-10 | 6.26E-09 |
| 493 | 258735.18 | 4086273.99 | 3.97E-09 | 5.30E-08 | 9.25E-09 | 9.25E-09 | 5.16E-09 | 8.06E-08 | 6.02E-10 | 8.07E-09 | 1.45E-09 | 1.45E-09 | 7.94E-10 | 1.24E-08 | 3.27E-10 | 4.37E-09 | 6.41E-10 | 6.41E-10 | 3.18E-10 | 6.30E-09 |
| 494 | 258712.81 | 4086284.23 | 3.99E-09 | 5.53E-08 | 9.31E-09 | 9.31E-09 | 5.19E-09 | 8.11E-08 | 6.06E-10 | 8.12E-09 | 1.46E-09 | 1.45E-09 | 7.99E-10 | 1.24E-08 | 3.29E-10 | 4.39E-09 | 6.47E-10 | 6.47E-10 | 3.20E-10 | 6.34E-09 |
| 495 | 258690.43 | 4086294.68 | 4.01E-09 | 5.36E-08 | 9.37E-09 | 9.37E-09 | 5.22E-09 | 6.16E-08 | 6.09E-10 | 8.17E-09 | 1.46E-09 | 1.46E-09 | 6.04E-10 | 1.25E-09 | 3.31E-10 | 4.42E-09 | 6.53E-10 | 6.51E-10 | 3.22E-10 | 6.37E-09 |
| 496 | 258668.06 | 4086305.03 | 4.04E-09 | 5.40E-08 | 9.43E-09 | 9.43E-09 | 5.26E-09 | 8.21E-08 | 6.13E-10 | 8.22E-09 | 1.47E-09 | 1.47E-09 | 8.09E-10 | 1.26E-08 | 3.33E-10 | 4.45E-09 | 6.55E-10 | 6.55E-10 | 3.24E-10 | 0.42E-09 |
| 497 | 258645.69 | 4086315.37 | 4.07E-09 | 5.44E-08 | 9.50E-09 | 9.50E-09 | 5.29E-09 | 0.27E-09 | 6.18E-10 | 0.28E-09 | 1.48E-09 | 1.45E-09 | 8.11E-10 | 1.27E-09 | 3.36E-10 | 4.48E-09 | 6.60E-10 | 6.60E-10 | 3.27E-10 | 6.46E-09 |
| 498 | 258623.32 | 4086335.72 | 4.11E-09 | 5.48E-08 | 9.59E-09 | 9.58E-09 | 5.34E-09 | 6.34E-09 | 6.23E-10 | 8.35E-09 | 1.50E-09 | 1.50E-09 | 8.22E-10 | 1.28E-08 | 3.38E-10 | 4.52E-09 | 6.65E-10 | 6.65E-10 | 3.29E-10 | 8.52E-09 |
| 499 | 258600.95 | 4086336.07 | 4.14E-09 | 5.51E-08 | 9.67E-09 | 9.07E-09 | 5.39E-09 | 0.42E-08 | 6.29E-10 | 6.43E-09 | 1.51E-09 | 1.51E-09 | 8.30E-10 | 1.29E-09 | 3.41E-10 | 4.56E-09 | 6.72E-10 | 6.72E-10 | 3.32E-10 | 6.58E-09 |
| 500 | 258578.58 | 4086346.41 | 4.19E-09 | 5.59E-08 | 9.77E-09 | 9.77E-09 | 5.45E-09 | 8.51E-08 | 8.35E-10 | 8.52E-09 | 1.53E-09 | 1.53E-09 | 8.39E-10 | 1.30E-09 | 3.45E-10 | 4.61E-09 | 6.79E-10 | 8.79E-10 | 3.36E-10 | 6.05E-09 |
| 501 | 258556.21 | 4086356.76 | 4.23E-09 | 5.65E-08 | 9.86E-09 | 9.83E-09 | 5.51E-09 | 8.60E-08 | 0.43E-10 | 6.61E-09 | 1.54E-09 | 1.54E-09 | 8.48E-10 | 1.32E-08 | 3.49E-10 | 4.66E-09 | 6.85E-10 | 6.85E-10 | 3.40E-10 | 6.72E-09 |
| 502 | 258533.84 | 4086367.11 | 4.26E-09 | 5.72E-08 | 9.99E-09 | 9.99E-09 | 5.57E-09 | 0.70E-08 | 6.50E-10 | 8.71E-09 | 1.56E-09 | 1.56E-09 | 8.58E-10 | 1.33E-08 | 3.53E-10 | 4.71E-09 | 6.94E-10 | 6.94E-10 | 3.44E-10 | 6.80E-09 |
| 503 | 258511.47 | 4086372.45 | 4.23E-09 | 5.79E-08 | 1.01E-08 | 1.01E-08 | 5.64E-09 | 0.81E-09 | 6.56E-10 | 8.82E-09 | 1.58E-09 | 1.58E-09 | 8.68E-10 | 1.35E-09 | 3.57E-10 | 4.77E-09 | 7.02E-10 | 7.02E-10 | 3.48E-10 | 6.88E-09 |
| 504 | 258489.09 | 4086387.8 | 4.35E-09 | 5.88E-08 | 1.02E-08 | 1.02E-08 | 5.70E-09 | 6.91E-08 | 6.68E-10 | 6.92E-09 | 1.60E-09 | 1.60E-09 | 8.76E-10 | 1.27E-08 | 3.62E-10 | 4.83E-09 | 7.11E-10 | 7.11E-10 | 3.52E-10 | 6.96E-09 |
| 505 | 258466.72 | 4086398.14 | 4.44E-09 | 5.91E-08 | 1.04E-08 | 1.04E-08 | 5.78E-09 | 9.03E-08 | 6.74E-10 | 9.04E-09 | 1.62E-09 | 1.62E-09 | 8.89E-10 | 1.38E-08 | 3.66E-10 | 4.89E-09 | 7.20E-10 | 7.20E-10 | 3.56E-10 | 7.05E-09 |
| 506 | 258444.35 | 4086408.49 | 4.49E-09 | 6.00E-08 | 1.05E-08 | 1.05E-08 | 5.84E-09 | 9.13E-08 | 6.82E-10 | 9.14E-09 | 1.64E-09 | 1.64E-09 | 9.00E-10 | 1.40E-08 | 3.70E-10 | 4.95E-09 | 7.28E-10 | 7.28E-10 | 3.60E-10 | 7.13E-09 |
| 507 | 259663.91 | 4085082.19 | 4.47E-09 | 9.97E-08 | 1.04E-08 | 1.04E-08 | 5.81E-09 | 9.08E-08 | 0.78E-10 | 9.10E-09 | 1.63E-08 | 1.63E-09 | 8.95E-10 | 1.29E-08 | 3.68E-10 | 4.91E-09 | 7.24E-10 | 7.24E-10 | 3.59E-10 | 7.10E-09 |
| 508 | 259663.16 | 4085057.43 | 4.54E-09 | 6.06E-08 | 1.06E-08 | 1.06E-08 | 5.90E-09 | 9.22E-08 | 6.89E-10 | 9.25E-09 | 1.65E-09 | 1.65E-09 | 9.09E-10 | 1.41E-08 | 3.74E-10 | 5.00E-09 | 7.35E-10 | 7.35E-10 | 3.64E-10 | 7.20E-09 |
| 509 | 259662.46 | 4085032.67 | 4.62E-09 | 6.17E-08 | 1.08E-08 | 1.08E-08 | 6.01E-09 | 9.39E-08 | 7.01E-10 | 9.40E-09 | 1.68E-09 | 1.68E-09 | 9.25E-10 | 1.44E-08 | 3.81E-10 | 5.09E-09 | 7.49E-10 | 7.49E-10 | 3.71E-10 | 7.34E-09 |
| 510 | 129661.74 | 4085007.92 | 4.72E-09 | 6.31E-08 | 1.10E-08 | 1.10E-08 | 6.14E-09 | 9.60E-08 | 7.17E-10 | 9.61E-09 | 1.72E-09 | 1.72E-09 | 9.46E-10 | 1.47E-08 | 3.89E-10 | 5.20E-09 | 7.85E-10 | 7.85E-10 | 3.79E-10 | 7.50E-09 |
| 511 | 259661.02 | 4084983.16 | 4.89E-09 | 6.47E-08 | 1.13E-08 | 1.13E-08 | 6.30E-09 | 9.85E-08 | 7.25E-10 | 9.86E-09 | 1.76E-08 | 1.76E-09 | 9.70E-10 | 1.51E-09 | 3.99E-10 | 5.23E-09 | 7.85E-10 | 7.85E-10 | 3.89E-10 | 7.69E-09 |
| 512 | 259660.29 | 4084958.4 | 4.99E-09 | 6.66E-08 | 1.18E-08 | 1.16E-09 | 6.49E-09 | 1.01E-07 | 7.57E-10 | 1.02E-08 | 1.82E-09 | 1.82E-09 | 9.99E-10 | 1.55E-08 | 4.11E-10 | 5.49E-09 | 8.09E-10 | 8.09E-10 | 4.00E-10 | 7.92E-09 |
| 513 | 259659.57 | 4084933.65 | 5.15E-09 | 6.66E-09 | 1.20E-08 | 1.20E-09 | 6.70E-09 | 1.05E-07 | 7.81E-10 | 1.05E-08 | 1.88E-09 | 1.85E-09 | 1.03E-09 | 1.80E-08 | 4.24E-10 | 5.67E-09 | 8.34E-10 | 8.34E-10 | 4.13E-10 | 6.17E-09 |
| 514 | 259658.85 | 4084908.89 | 5.31E-09 | 7.09E-08 | 1.24E-08 | 1.24E-09 | 8.91E-09 | 1.08E-07 | 8.06E-10 | 1.08E-08 | 1.93E-09 | 1.93E-09 | 1.06E-09 | 1.65E-08 | 4.38E-10 | 5.85E-09 | 8.61E-10 | 8.61E-10 | 4.26E-10 | 8.43E-09 |
| 515 | 259658.12 | 4084884.14 | 5.48E-09 | 7.21E-08 | 1.26E-08 | 1.26E-08 | 7.12E-09 | 1.11E-07 | 8.31E-10 | 1.11E-08 | 1.99E-09 | 1.99E-09 | 1.10E-09 | 1.71E-09 | 4.51E-10 | 6.03E-09 | 8.87E-10 | 8.87E-10 | 4.39E-10 | 8.69E-09 |
| 516 | 259855.12 | 4085099.5 | 3.73E-09 | 4.98E-08 | 8.69E-09 | 8.69E-09 | 4.85E-09 | 7.57E-08 | 5.66E-10 | 7.54E-09 | 1.36E-09 | 1.36E-09 | 7.46E-10 | 1.16E-08 | 3.07E-10 | 4.10E-09 | 6.04E-10 | 6.04E-10 | 2.99E-10 | 5.92E-09 |
| 517 | 259846.41 | 4085122.65 | 3.77E-09 | 4.97E-08 | 8.69E-09 | 8.69E-09 | 4.84E-09 | 7.57E-08 | 5.85E-10 | 7.56E-09 | 1.36E-09 | 1.36E-09 | 7.46E-10 | 1.16E-09 | 3.07E-10 | 4.10E-09 | 6.04E-10 | 6.04E-10 | 2.99E-10 | 5.91E-09 |
| 518 | 259837.7 | 4085145.79 | 3.77E-09 | 4.97E-08 | 8.69E-09 | 8.09E-09 | 4.84E-09 | 7.57E-09 | 5.65E-10 | 7.58E-09 | 1.36E-09 | 1.36E-09 | 7.46E-10 | 1.16E-08 | 3.07E-10 | 4.10E-09 | 6.04E-10 | 6.04E-10 | 2.99E-10 | 5.91E-09 |
| 519 | 259829 | 4085168.94 | 3.72E-09 | 4.97E-09 | 8.68E-09 | 8.86E-09 | 4.84E-09 | 7.56E-08 | 5.64E-10 | 7.57E-09 | 1.35E-09 | 1.35E-09 | 7.45E-10 | 1.16E-08 | 3.07E-10 | 4.09E-09 | 6.03E-10 | 6.03E-10 | 2.98E-10 | 5.91E-09 |
| 520 | 259820.29 | 4085192.09 | 3.71E-09 | 4.96E-08 | 6.66E-09 | 8.66E-09 | 4.83E-09 | 7.54E-08 | 5.63E-10 | 7.55E-09 | 1.35E-09 | 1.35E-09 | 7.43E-10 | 1.16E-08 | 3.06E-10 | 4.09E-09 | 6.02E-10 | 6.02E-10 | 2.98E-10 | 5.89E-09 |
| 521 | 259811.59 | 4085215.22 | 3.70E-09 | 4.94E-09 | 8.62E-09 | 6.82E-09 | 4.81E-09 | 7.51E-09 | 5.61E-10 | 7.52E-09 | 1.35E-09 | 1.35E-09 | 7.40E-10 | 1.15E-09 | 3.08E-10 | 4.07E-09 | 5.99E-10 | 5.99E-10 | 2.96E-10 | 5.87E-09 |
| 522 | 259802.88 | 4085238.38 | 3.67E-09 | 4.90E-08 | 8.58E-09 | 8.56E-09 | 4.77E-09 | 7.45E-08 | 5.57E-10 | 7.48E-09 | 1.34E-09 | 1.34E-09 | 7.35E-10 | 1.14E-08 | 3.02E-10 | 4.04E-09 | 5.94E-10 | 5.94E-10 | 2.94E-10 | 5.82E-09 |
| 523 | 259794.17 | 4085261.53 | 3.63E-09 | 4.85E-08 | 8.47E-09 | 8.47E-09 | 4.72E-09 | 7.38E-08 | 5.51E-10 | 7.39E-09 | 1.32E-09 | 1.32E-09 | 7.27E-10 | 1.13E-09 | 2.99E-10 | 4.00E-09 | 5.88E-10 | 5.88E-10 | 2.91E-10 | 5.76E-09 |
| 524 | 259785.47 | 4085284.68 | 3.56E-09 | 4.78E-08 | 8.33E-09 | 8.35E-09 | 4.66E-09 | 7.28E-08 | 5.43E-10 | 7.29E-09 | 1.30E-09 | 1.30E-09 | 7.17E-10 | 1.12E-08 | 2.95E-10 | 3.94E-09 | 5.80E-10 | 5.80E-10 | 2.87E-10 | 5.69E-09 |
| 525 | 259776.76 | 4085307.82 | 3.52E-09 | 4.71E-08 | 8.22E-09 | 6.22E-09 | 4.58E-09 | 7.16E-08 | 5.35E-10 | 7.17E-09 | 1.28E-09 | 1.28E-09 | 7.06E-10 | 1.10E-08 | 2.90E-10 | 3.88E-09 | 5.71E-10 | 5.71E-10 | 2.83E-10 | 5.60E-09 |
| 526 | 259768.05 | 4085330.97 | 3.48E-09 | 4.63E-09 | 6.08E-09 | 0.08E-09 | 4.51E-09 | 7.04E-08 | 5.26E-10 | 7.05E-09 | 1.26E-09 | 1.28E-09 | 6.94E-10 | 1.08E-08 | 2.86E-10 | 3.01E-09 | 5.01E-10 | 9.61E-10 | 2.78E-10 | 5.50E-09 |
| 527 | 259759.35 | 4085354.12 | 3.40E-09 | 4.54E-08 | 7.93E-09 | 7.93E-09 | 4.42E-09 | 6.91E-08 | 5.10E-10 | 0.92E-09 | 1.24E-09 | 1.24E-09 | 0.61E-10 | 1.06E-08 | 2.80E-10 | 3.74E-09 | 5.51E-10 | 5.51E-10 | 2.73E-10 | 5.40E-09 |
| 528 | 259750.64 | 4085377.26 | 3.34E-09 | 4.46E-08 | 7.79E-09 | 7.79E-09 | 4.34E-09 | 6.76E-09 | 5.07E-10 | 6.79E-09 | 1.22E-09 | 1.22E-09 | 6.89E-10 | 1.04E-08 | 2.75E-10 | 3.68E-09 | 5.41E-10 | 5.41E-10 | 2.68E-10 | 5.30E-09 |
| 529 | 259741.94 | 4085400.41 | 3.28E-09 | 4.38E-08 | 7.64E-09 | 7.64E-09 | 4.26E-09 | 6.66E-08 | 4.97E-10 | 6.07E-09 | 1.19E-09 | 1.19E-09 | 6.56E-10 | 1.02E-08 | 2.70E-10 | 3.61E-09 | 5.31E-10 | 5.31E-10 | 2.03E-10 | 5.20E-09 |
| 530 | 259733.23 | 4085423.56 | 3.22E-09 | 4.30E-09 | 7.50E-09 | 7.50E-09 | 4.18E-09 | 6.54E-09 | 4.88E-10 | 6.54E-09 | 1.17E-09 | 1.17E-09 | 6.44E-10 | 1.00E-08 | 2.65E-10 | 3.54E-09 | 5.21E-10 | 5.21E-10 | 2.58E-10 | 5.11E-09 |
| 531 | 259724.52 | 4085446.71 | 3.16E-09 | 4.22E-08 | 7.37E-09 | 7.27E-09 | 4.15E-09 | 6.43E-08 | 4.80E-10 | 6.41E-09 | 1.15E-09 | 1.15E-09 | 6.33E-10 | 9.84E-09 | 2.80E-10 | 3.48E-09 | 5.12E-10 | 5.12E-10 | 2.53E-10 | 5.01E-09 |
| 532 | 259715.82 | 4085469.85 | 3.11E-09 | 4.15E-08 | 7.25E-09 | 7.23E-09 | 4.04E-09 | 6.31E-09 | 4.72E-10 | 6.22E-09 | 1.13E-09 | 1.13E-09 | 6.22E-10 | 9.68E-09 | 2.56E-10 | 3.41E-09 | 5.04E-10 | 5.04E-10 | 2.49E-10 | 4.92E-09 |
| 533 | 259707.11 | 4085493 | 3.06E-09 | 4.08E-08 | 7.12E-09 | 7.13E-09 | 3.98E-09 | 6.21E-09 | 4.84E-10 | 6.22E-09 | 1.11E-09 | 1.11E-09 | 8.12E-10 | 9.53E-09 | 2.52E-10 | 3.27E-09 | 4.96E-10 | 4.96E-10 | 2.45E-10 | 4.85E-09 |
| 534 | 259698.41 | 4085510.12 | 3.01E-09 | 4.03E-08 | 7.03E-09 | 7.03E-09 | 3.92E-09 | 6.11E-08 | 4.57E-10 | 6.13E-09 | 1.10E-09 | 1.10E-09 | 6.04E-10 | 9.39E-09 | 2.48E-10 | 3.32E-09 | 4.88E-10 | 4.88E-10 | 2.42E-10 | 4.79E-09 |
| 535 | 259689.7 | 4085539.29 | 2.97E-09 | 3.97E-09 | 6.93E-09 | 6.93E-09 | 3.87E-09 | 6.04E-09 | 4.51E-10 | 0.05E-09 | 1.08E-09 | 1.08E-09 | 5.95E-10 | 9.25E-09 | 2.45E-10 | 3.27E-09 | 4.82E-10 | 4.82E-10 | 2.38E-10 | 4.72E-09 |
| 536 | 259680.99 | 4085562.44 | 2.94E-09 | 3.93E-09 | 0.86E-09 | 6.68E-09 | 3.83E-09 | 5.98E-08 | 4.48E-10 | 5.98E-09 | 1.07E-09 | 1.07E-09 | 5.89E-10 | 9.16E-09 | 2.42E-10 | 3.24E-09 | 4.77E-10 | 4.77E-10 | 2.36E-10 | 4.07E-09 |
| 537 | 259677.29 | 4085585.59 | 2.91E-09 | 3.88E-09 | 6.78E-09 | 8.78E-09 | 3.78E-09 | 5.91E-08 | 4.45E-10 | 5.92E-09 | 1.06E-09 | 1.06E-09 | 5.82E-10 | 9.06E-09 | 2.40E-10 | 3.20E-09 | 4.71E-10 | 4.75E-10 | 2.33E-10 | 4.62E-09 |
| 538 | 259663.58 | 4085608.77 | 2.88E-09 | 3.85E-08 | 0.77E-09 | 6.72E-09 | 3.75E-09 | 5.85E-09 | 4.27E-10 | 5.86E-09 | 1.05E-09 | 1.05E-09 | 5.77E-10 | 8.98E-09 | 2.37E-10 | 3.17E-09 | 4.67E-10 | 4.67E-10 | 2.21E-10 | 4.57E-09 |
| 539 | 259654.68 | 4085631.89 | 2.86E-09 | 3.82E-08 | 6.67E-09 | 6.67E-09 | 3.72E-09 | 5.81E-09 | 4.24E-10 | 5.01E-09 | 1.04E-09 | 1.04E-09 | 5.77E-10 | 8.90E-09 | 2.36E-10 | 3.15E-09 | 4.63E-10 | 4.82E-10 | 2.29E-10 | 4.54E-09 |
| 540 | 259646.17 | 4085655.03 | 2.84E-09 | 3.79E-08 | 0.62E-09 | 6.62E-09 | 3.69E-09 | 5.77E-09 | 4.21E-10 | 5.77E-09 | 1.03E-09 | 1.03E-09 | 5.68E-10 | 8.84E-09 | 2.34E-10 | 3.12E-09 | 4.60E-10 | 4.60E-10 | 2.23E-10 | 4.50E-09 |
| 541 | 259637.46 | 4085670.18 | 2.82E-09 | 3.76E-09 | 6.57E-09 | 6.57E-09 | 3.66E-09 | 5.73E-09 | 4.28E-10 | 5.77E-09 | 1.03E-09 | 1.03E-09 | 5.64E-10 | 8.78E-09 | 2.32E-10 | 3.10E-09 | 4.57E-10 | 4.57E-10 | 2.20E-10 | 4.47E-09 |
| 542 | 259626.76 | 4085701.32 | 2.80E-09 | 3.74E-08 | 0.53E-09 | 6.53E-09 | 3.64E-09 | 5.66E-09 | 4.24E-10 | 5.69E-09 | 1.02E-09 | 1.02E-09 | 5.60E-10 | 8.71E-09 | 2.31E-10 | 3.08E-09 | 4.53E-10 | 4.53E-10 | 2.24E-10 | 4.44E-09 |
| 543 | 259620.05 | 4085724.47 | 2.78E-09 | 3.71E-08 | 6.48E-09 | 6.48E-09 | 3.65E-09 | 5.64E-09 | 4.21E-10 | 5.65E-09 | 1.01E-09 | 1.01E-09 | 5.56E-10 | 8.85E-09 | 2.29E-10 | 3.05E-09 | 4.50E-10 | 4.50E-10 | 2.23E-10 | 4.41E-09 |
| 544 | 259611.25 | 4085747.82 | 2.75E-09 | 3.68E-08 | 6.42E-09 | 6.42E-09 | 3.58E-09 | 5.59E-08 | 4.18E-10 | 5.60E-09 | 1.00E-09 | 1.00E-09 | 5.51E-10 | 8.57E-09 | 2.27E-10 | 3.03E-09 | 4.46E-10 | 4.46E-10 | 2.21E-10 | 4.27E-09 |
| 545 | 259602.64 | 4085770.76 | 2.73E-09 | 3.65E-08 | 6.38E-09 | 6.38E-09 | 3.56E-09 | 5.53E-09 | 4.15E-10 | 5.56E-09 | 9.96E-10 | 9.96E-10 | 5.47E-10 | 8.52E-09 | 2.25E-10 | 3.01E-09 | 4.43E-10 | 4.43E-10 | 2.19E-10 | 4.54E-09 |
| 546 | 259593.93 | 4085793.91 | 2.71E-09 | 3.62E-09 | 6.53E-09 | 6.33E-09 | 3.53E-09 | 5.51E-08 | 4.12E-10 | 5.52E-09 | 9.88E-10 | 9.88E-10 | 5.43E-10 | 0.45E-09 | 2.24E-10 | 2.99E-09 | 4.40E-10 | 4.40E-10 | 2.18E-10 | 4.21E-09 |
| 547 | 259585.23 | 4083617.06 | 2.69E-09 | 3.59E-08 | 6.28E-09 | 8.23E-09 | 3.50E-09 | 5.47E-09 | 4.08E-10 | 5.48E-09 | 9.80E-10 | 9.80E-10 | 5.39E-10 | 8.38E-09 | 2.22E-10 | 2.96E-09 | 4.36E-10 | 4.36E-10 | 2.16E-10 | 4.27E-09 |
| 548 | 259576.52 | 4085840.21 | 2.87E-09 | 3.57E-09 | 6.23E-09 | 6.23E-09 | 3.47E-09 | 5.43E-08 | 4.05E-10 | 5.43E-09 | 9.77E-10 | 9.72E-10 | 5.35E-10 | 8.32E-09 | 2.20E-10 | 2.94E-09 | 4.33E-10 | 4.33E-10 | 2.14E-10 | 4.24E-09 |
| 549 | 259567.82 | 4085883.35 | 2.64E-09 | 3.53E-09 | 8.17E-09 | 6.17E-09 | 3.44E-09 | 5.37E-09 | 4.01E-10 | 5.30E-09 | 9.81E-10 | 9.03E-10 | 5.29E-10 | 8.24E-09 | 2.18E-10 | 2.91E-09 | 4.29E-10 | 4.29E-10 | 2.12E-10 | 4.20E-09 |
| 550 | 259559.11 | 4085886.5 | 2.61E-09 | 3.49E-08 | 6.10E-08 | 6.10E-09 | 3.40E-09 | 5.31E-08 | 3.97E-10 | 5.32E-09 | 9.52E-10 | 9.52E-10 | 5.24E-10 | 0.13E-09 | 2.16E-10 | 2.88E-09 | 4.24E-10 | 4.24E-10 | 2.10E-10 | 4.15E-09 |
| 551 | 259550.4 | 4085909.65 | 2.58E-09 | 3.45E-09 | 0.03E-09 | 8.02E-09 | 3.36E-09 | 5.25E-08 | 3.92E-10 | 5.26E-09 | 9.41E-10 | 9.41E-10 | 5.17E-10 | 8.05E-09 | 2.13E-10 | 2.84E-09 | 4.19E-10 | 4.19E-10 | 2.07E-10 | 4.10E-09 |
| 552 | 259541.7 | 4085932.79 | 2.55E-09 | 3.41E-08 | 5.95E-09 | 5.95E-09 | 3.32E-09 | 5.18E-08 | 3.87E-10 | 5.19E-09 | 9.29E-10 | 9.29E-10 | 5.11E-10 | 7.95E-09 | 2.10E-10 | 2.81E-09 | 4.13E-10 | 4.12E-10 | 2.05E-10 | 4.05E-09 |
| 553 | 259532.99 | 4085955.94 | 2.52E-09 | 3.36E-08 | 5.87E-09 | 5.87E-09 | 3.27E-09 | 5.11E-09 | 3.82E-10 | 5.12E-09 | 9.17E-10 | 9.17E-10 | 5.04E-10 | 7.84E-09 | 2.07E-10 | 2.77E-09 | 4.08E-10 | 4.08E-10 | 2.02E-10 | 4.00E-09 |
| 554 | 259524.29 | 4085979.09 | 2.46E-09 | 3.22E-08 | 5.79E-09 | 5.79E-09 | 3.23E-09 | 5.04E-08 | 3.77E-10 | 5.05E-09 | 9.04E-10 | 9.04E-10 | 4.97E-10 | 7.73E-09 | 2.05E-10 | 2.73E-09 | 4.02E-10 | 4.02E-10 | 1.99E-10 | 3.84E-09 |
| 555 | 259515.58 | 4086002.24 | 2.45E-09 | 3.27E-09 | 5.71E-09 | 5.71E-09 | 3.19E-09 | 4.98E-08 | 3.72E-10 | 4.98E-09 | 8.92E-10 | 8.92E-10 | 4.90E-10 | 7.63E-09 | 2.02E-10 | 2.70E-09 | 3.97E-10 | 3.97E-10 | 1.96E-10 | 3.89E-09 |
| 556 | 259506.87 | 4086025.36 | 2.42E-09 | 3.23E-08 | 5.64E-09 | 5.84E-09 | 3.15E-09 | 4.91E-09 | 3.67E-10 | 4.92E-09 | 8.81E-10 | 8.81E-10 | 4.84E-10 | 7.53E-09 | 1.99E-10 | 2.66E-09 | 3.92E-10 | 3.92E-10 | 1.94E-10 | 3.84E-09 |
| 557 | 259498.17 | 4086048.53 | 2.39E-09 | 3.16E-08 | 5.57E-09 | 5.57E-09 | 3.11E-09 | 4.66E-09 | 3.63E-10 | 4.86E-09 | 8.70E-10 | 6.70E-10 | 4.78E-10 | 7.44E-09 | 1.97E-10 | 2.03E-09 | 3.87E-10 | 3.87E-10 | 1.92E-10 | 3.79E-09 |
| 558 | 259489.40 | 4086071.68 | 2.27E-09 | 3.16E-08 | 5.52E-09 | 5.52E-09 | 3.06E-09 | 4.81E-08 | 3.59E-10 | 4.01E-09 | 8.62E-10 | 6.62E-10 | 4.74E-10 | 7.37E-09 | 1.95E-10 | 2.60E-09 | 3.83E-10 | 3.83E-10 | 1.90E-10 | 3.76E-09 |
| 559 | 259480.75 | 4086094.82 | 2.34E-09 | 3.13E-08 | 5.47E-09 | 5.47E-09 | 3.05E-09 | 4.76E-08 | 3.56E-10 | 4.77E-09 | 8.54E-10 | 6.54E-10 | 4.69E-10 | 7.30E-09 | 1.91E-10 | 2.56E-09 | 3.80E-10 | 3.80E-10 | 1.88E-10 | 3.72E-09 |
| 560 | 259472.09 | 4086117.97 | 2.32E-09 | 3.10E-08 | 5.42E-09 | 5.42E-09 | 3.02E-09 | 4.72E-09 | 3.53E-10 | 4.72E-09 | 8.46E-10 | 8.46E-10 | 4.85E-10 | 7.24E-09 | 1.91E-10 | 2.56E-09 | 3.77E-10 | 3.77E-10 | 1.86E-10 | 3.69E-09 |
| 561 | 259440.9 | 4086251.5 | 2.33E-09 | 3.11E-08 | 5.42E-09 | 5.42E-09 | 3.02E-09 | 4.75E-08 | 3.53E-10 | 4.73E-09 | 8.47E-10 | 8.47E-10 | 4.86E-10 | 7.24E-09 | 1.92E-10 | 2.56E-09 | 3.77E-10 | 3.77E-10 | 1.87E-10 | 3.69E-09 |
| 562 | 259418.45 | 4086161.88 | 2.25E-09 | 3.13E-09 | 5.48E-09 | 5.48E-09 | 3.05E-09 | 4.77E-09 | 3.56E-10 | 4.78E-09 | 8.55E-10 | 6.55E-10 | 4.70E-10 | 7.31E-09 | 1.93E-10 | 2.58E-09 | 3.80E-10 | 3.80E-10 | 1.88E-10 | 3.73E-09 |
| 563 | 259396.01 | 4086172.26 | 2.37E-09 | 3.17E-08 | 5.53E-09 | 5.53E-09 | 3.08E-09 | 4.82E-08 | 3.60E-10 | 4.82E-09 | 0.64E-10 | 8.64E-10 | 4.75E-10 | 7.29E-09 | 1.95E-10 | 2.01E-09 | 3.84E-10 | 3.84E-10 | 1.90E-10 | 3.76E-09 |
| 564 | 259373.36 | 4086182.84 | 2.29E-09 | 3.20E-08 | 5.59E-09 | 5.59E-09 | 3.11E-09 | 4.67E-08 | 3.63E-10 | 4.07E-09 | 8.71E-10 | 8.72E-10 | 4.79E-10 | 7.46E-09 | 1.97E-10 | 2.64E-09 | 3.88E-10 | 3.86E-10 | 1.92E-10 | 3.80E-09 |
| 565 | 259351.11 | 4086193.02 | 2.42E-09 | 3.23E-08 | 5.65E-09 | 5.65E-09 | 3.15E-09 | 4.92E-08 | 3.67E-10 | 4.92E-09 | 8.81E-10 | 8.81E-10 | 4.85E-10 | 7.54E-09 | 1.99E-10 | 2.86E-09 | 3.92E-10 | 3.92E-10 | 1.94E-10 | 3.84E-09 |
| 566 | 259320.67 | 4086203.4 | 2.44E-09 | 3.26E-08 | 5.70E-09 | 5.70E-09 | 3.18E-09 | 4.97E-08 | 3.71E-10 | 4.97E-09 | 8.90E-10 | 8.90E-10 | 4.89E-10 | 7.61E-09 | 2.01E-10 | 2.69E-09 | 3.96E-10 | 3.96E-10 | 1.98E-10 | 3.88E-09 |
| 567 | 259306.22 | 4086213.78 | 2.47E-09 | 3.30E-08 | 5.76E-09 | 5.76E-09 | 3.21E-09 | 5.02E-08 | 3.75E-10 | 5.02E-09 | 8.99E-10 | 8.99E-10 | 4.94E-10 | 7.69E-09 | 2.04E-10 | 2.72E-09 | 4.00E-10 | 4.00E-10 | 1.98E-10 | 3.91E-09 |
| 568 | 259283.78 | 4086224.17 | 2.46E-09 | 3.33E-08 | 5.82E-09 | 5.82E-09 | 3.24E-09 | 5.07E-08 | 3.79E-10 | 5.08E-09 | 9.09E-10 | 9.09E-10 | 5.00E-10 | 7.77E-09 | 2.06E-10 | 2.75E-09 | 4.04E-10 | 4.04E-10 | 2.00E-10 | 3.96E-08 |
| 569 | 259261.33 | 4086234.55 | 2.52E-09 | 3.57E-08 | 5.66E-09 | 5.66E-09 | 3.22E-09 | 5.11E-09 | 3.83E-10 | 5.13E-09 | 9.19E-10 | 9.19E-10 | 5.05E-10 | 7.85E-09 | 2.08E-10 | 2.78E-09 | 4.09E-10 | 4.09E-10 | 2.03E-10 | 4.00E-09 |
| 570 | 259238.88 | 4086344.93 | 2.55E-09 | 3.41E-08 | 5.95E-09 | 5.95E-09 | 3.32E-09 | 5.18E-08 | 3.87E-10 | 5.19E-09 | 9.29E-10 | 9.29E-10 | 5.11E-10 | 7.95E-09 | 2.10E-10 | 2.81E-09 | 4.13E-10 | 4.13E-10 | 2.05E-10 | 4.05E-09 |
| 571 | 259216.44 | 4086255.31 | 2.58E-09 | 3.45E-09 | 6.02E-09 | 6.02E-09 | 3.36E-09 | 5.23E-09 | 3.92E-10 | 5.25E-09 | 9.41E-10 | 9.41E-10 | 5.17E-10 | 6.04E-09 | 2.13E-10 | 2.84E-09 | 4.18E-10 | 4.18E-10 | 2.07E-10 | 4.10E-09 |
| 572 | 259193.99 | 4086265.69 | 2.61E-09 | 3.49E-08 | 6.10E-09 | 6.10E-09 | 3.40E-09 | 5.21E-08 | 3.97E-10 | 5.32E-09 | 9.52E-10 | 9.52E-10 | 5.24E-10 | 6.15E-09 | 2.16E-10 | 2.88E-09 | 4.24E-10 | 4.24E-10 | 2.10E-10 | 4.15E-09 |
| 573 | 259171.55 | 4086276.07 | 2.65E-09 | 3.54E-08 | 8.19E-09 | 6.19E-09 | 3.43E-09 | 5.39E-08 | 4.02E-10 | 5.39E-09 | 9.66E-10 | 9.66E-10 | 5.31E-10 | 8.26E-09 | 2.19E-10 | 2.92E-09 | 4.30E-10 | 4.30E-10 | 2.13E-10 | 4.21E-09 |
| 574 | 259149.1 | 4086286.45 | 2.69E-09 | 3.59E-08 | 6.28E-09 | 6.28E-09 | 3.50E-09 | 5.47E-09 | 4.08E-10 | 5.48E-09 | 9.80E-10 | 9.80E-10 | 5.39E-10 | 8.38E-09 | 2.22E-10 | 2.96E-09 | 4.36E-10 | 4.56E-10 | 2.16E-10 | 4.27E-09 |
| 575 | 259126.65 | 4086296.81 | 2.74E-09 | 3.65E-09 | 8.38E-09 | 6.38E-09 | 3.56E-09 | 5.56E-08 | 4.15E-10 | 5.57E-09 | 9.96E-10 | 9.96E-10 | 5.48E-10 | 8.52E-09 | 2.25E-10 | 3

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 366 | 259351.7 | 4085386.57 | 4.56E-09 | 6.09E-08 | 1.06E-08 | 1.06E-08 | 5.91E-09 | 9.26E-08 | 8.92E-10 | 9.27E-09 | 1.66E-09 | 1.66E-09 | 9.13E-10 | 1.42E-08 | 2.76E-10 | 5.02E-09 | 7.39E-10 | 7.39E-10 | 3.66E-10 | 7.24E-09 |
| 367 | 259342.06 | 4085409.34 | 4.48E-09 | 5.98E-08 | 1.04E-08 | 1.04E-08 | 5.82E-09 | 9.10E-08 | 8.79E-10 | 9.11E-09 | 1.63E-09 | 1.63E-09 | 8.96E-10 | 1.39E-08 | 3.69E-10 | 4.91E-09 | 7.25E-10 | 7.23E-10 | 2.59E-10 | 7.11E-09 |
| 368 | 259334.43 | 4085433.5 | 4.40E-09 | 5.88E-08 | 1.03E-08 | 1.03E-08 | 5.73E-09 | 6.95E-08 | 6.68E-10 | 8.96E-09 | 1.60E-09 | 1.60E-09 | 8.82E-10 | 1.37E-08 | 3.63E-10 | 4.85E-09 | 7.14E-10 | 7.14E-10 | 2.53E-10 | 6.99E-09 |
| 369 | 259325.79 | 4085455.47 | 4.34E-09 | 5.80E-08 | 1.01E-08 | 1.01E-08 | 5.64E-09 | 8.81E-08 | 6.58E-10 | 8.62E-09 | 1.58E-09 | 1.38E-09 | 8.69E-10 | 1.25E-08 | 3.58E-10 | 4.78E-09 | 7.02E-10 | 7.02E-10 | 2.48E-10 | 6.89E-09 |
| 370 | 259317.15 | 4085476.43 | 4.28E-09 | 5.71E-08 | 9.98E-09 | 9.98E-09 | 5.56E-09 | 6.70E-08 | 6.49E-10 | 8.71E-09 | 1.56E-09 | 1.56E-09 | 8.57E-10 | 1.23E-08 | 3.53E-10 | 4.71E-09 | 6.92E-10 | 6.93E-10 | 2.43E-10 | 6.79E-09 |
| 371 | 259308.51 | 4085501.4 | 4.27E-09 | 5.64E-08 | 9.85E-09 | 9.85E-09 | 5.49E-09 | 8.58E-08 | 6.41E-10 | 8.59E-09 | 1.54E-09 | 1.54E-09 | 8.46E-10 | 1.32E-08 | 3.46E-10 | 4.65E-09 | 6.65E-10 | 6.85E-10 | 2.39E-10 | 6.71E-09 |
| 372 | 259299.87 | 4085524.37 | 4.17E-09 | 5.57E-08 | 9.73E-09 | 9.73E-09 | 5.41E-09 | 6.46E-08 | 6.33E-10 | 8.49E-09 | 1.52E-09 | 1.53E-09 | 8.35E-10 | 1.30E-08 | 2.44E-10 | 4.59E-09 | 6.76E-10 | 6.76E-10 | 2.35E-10 | 6.62E-09 |
| 373 | 259291.24 | 4085547.32 | 4.12E-09 | 5.50E-08 | 9.61E-09 | 9.61E-09 | 5.36E-09 | 8.37E-08 | 6.25E-10 | 8.36E-09 | 1.50E-09 | 1.50E-09 | 8.25E-10 | 1.28E-08 | 3.40E-10 | 4.54E-09 | 6.58E-10 | 6.88E-10 | 2.31E-10 | 6.34E-09 |
| 374 | 259282.6 | 4085570.2 | 4.07E-09 | 5.44E-08 | 9.50E-09 | 9.50E-09 | 5.29E-09 | 8.27E-08 | 6.18E-10 | 8.26E-09 | 1.48E-09 | 1.48E-09 | 8.15E-10 | 1.27E-08 | 3.36E-10 | 4.48E-09 | 6.60E-10 | 6.60E-10 | 3.27E-10 | 6.46E-09 |
| 375 | 259272.96 | 4085593.26 | 4.02E-09 | 5.37E-08 | 9.38E-09 | 9.38E-09 | 5.23E-09 | 6.17E-08 | 8.10E-10 | 8.16E-09 | 1.46E-09 | 1.46E-09 | 8.05E-10 | 1.25E-08 | 2.31E-10 | 4.43E-09 | 6.51E-10 | 6.51E-10 | 2.23E-10 | 6.33E-09 |
| 376 | 259265.32 | 4085616.32 | 3.97E-09 | 5.30E-08 | 9.26E-09 | 9.26E-09 | 5.16E-09 | 6.07E-08 | 6.02E-10 | 6.08E-09 | 1.45E-09 | 1.45E-09 | 7.95E-10 | 1.24E-08 | 2.27E-10 | 4.37E-09 | 6.43E-10 | 6.43E-10 | 2.18E-10 | 6.30E-09 |
| 377 | 259256.69 | 4085639.19 | 3.92E-09 | 5.21E-08 | 9.14E-09 | 9.14E-09 | 5.09E-09 | 7.96E-08 | 5.94E-10 | 7.97E-09 | 1.43E-09 | 1.43E-09 | 7.84E-10 | 1.23E-08 | 2.22E-10 | 4.31E-09 | 6.35E-10 | 6.35E-10 | 2.14E-10 | 6.23E-09 |
| 276 | 259248.05 | 4085662.16 | 3.86E-09 | 5.16E-08 | 9.00E-09 | 9.00E-09 | 5.02E-09 | 7.84E-08 | 5.86E-10 | 7.65E-09 | 1.41E-09 | 1.41E-09 | 7.73E-10 | 1.20E-08 | 3.18E-10 | 4.25E-09 | 6.35E-10 | 6.25E-10 | 3.10E-10 | 6.13E-09 |
| 279 | 259229.41 | 4085685.12 | 3.80E-09 | 5.08E-08 | 8.87E-09 | 8.87E-09 | 4.94E-09 | 7.73E-08 | 5.77E-10 | 7.73E-09 | 1.38E-09 | 1.18E-09 | 7.61E-10 | 1.18E-08 | 3.12E-10 | 4.19E-09 | 6.16E-10 | 6.16E-10 | 3.05E-10 | 6.04E-09 |
| 380 | 259230.77 | 4085708.09 | 3.74E-09 | 4.99E-08 | 8.72E-09 | 8.72E-09 | 4.86E-09 | 7.60E-08 | 5.67E-10 | 7.61E-09 | 1.36E-09 | 1.36E-09 | 7.49E-10 | 1.16E-08 | 3.08E-10 | 4.12E-09 | 6.06E-10 | 6.06E-10 | 3.00E-10 | 5.94E-09 |
| 381 | 259222.12 | 4085731.06 | 3.68E-09 | 4.91E-08 | 8.58E-09 | 8.58E-09 | 4.78E-09 | 7.47E-08 | 5.58E-10 | 7.48E-09 | 1.34E-09 | 1.34E-09 | 7.36E-10 | 1.15E-08 | 3.03E-10 | 4.05E-09 | 5.96E-10 | 5.96E-10 | 2.95E-10 | 5.84E-09 |
| 382 | 259213.5 | 4085754.02 | 3.62E-09 | 4.83E-08 | 8.44E-09 | 8.44E-09 | 4.70E-09 | 7.25E-08 | 5.49E-10 | 7.38E-09 | 1.32E-09 | 1.32E-09 | 7.24E-10 | 1.13E-08 | 2.98E-10 | 3.98E-09 | 5.86E-10 | 5.86E-10 | 2.90E-10 | 5.74E-09 |
| 383 | 259204.86 | 4085778.99 | 3.56E-09 | 4.75E-08 | 8.30E-09 | 8.30E-09 | 4.63E-09 | 7.23E-08 | 5.40E-10 | 7.24E-09 | 1.30E-09 | 1.50E-09 | 7.12E-10 | 1.11E-08 | 2.93E-10 | 2.92E-09 | 5.76E-10 | 5.78E-10 | 2.85E-10 | 5.65E-09 |
| 384 | 259196.22 | 4085799.95 | 3.50E-09 | 4.68E-08 | 8.17E-09 | 8.17E-09 | 4.56E-09 | 7.12E-08 | 5.32E-10 | 7.12E-09 | 1.28E-09 | 1.28E-09 | 7.01E-10 | 1.09E-08 | 2.89E-10 | 2.86E-09 | 5.68E-10 | 5.68E-10 | 2.81E-10 | 5.56E-09 |
| 385 | 259187.58 | 4085822.92 | 3.45E-09 | 4.61E-08 | 8.05E-09 | 8.05E-09 | 4.49E-09 | 7.01E-08 | 5.24E-10 | 7.02E-09 | 1.26E-09 | 1.26E-09 | 6.91E-10 | 1.08E-08 | 2.84E-10 | 3.80E-09 | 5.59E-10 | 5.59E-10 | 2.77E-10 | 5.48E-09 |
| 386 | 259178.95 | 4085845.88 | 3.41E-09 | 4.53E-08 | 7.95E-09 | 7.95E-09 | 4.43E-09 | 6.92E-08 | 5.17E-10 | 6.92E-09 | 1.24E-09 | 1.24E-09 | 6.82E-10 | 1.06E-08 | 2.81E-10 | 3.75E-09 | 5.52E-10 | 5.52E-10 | 2.73E-10 | 5.41E-09 |
| 287 | 259146.04 | 4085879.15 | 3.40E-09 | 4.54E-08 | 7.94E-09 | 7.94E-09 | 4.42E-09 | 6.91E-08 | 5.16E-10 | 6.93E-09 | 1.24E-09 | 1.24E-09 | 6.81E-10 | 1.06E-08 | 2.80E-10 | 3.75E-09 | 5.51E-10 | 5.51E-10 | 2.73E-10 | 5.40E-09 |
| 286 | 259125.77 | 4085889.45 | 2.44E-09 | 4.60E-08 | 8.03E-09 | 8.03E-09 | 4.48E-09 | 7.00E-08 | 5.22E-10 | 7.00E-09 | 1.23E-09 | 1.25E-09 | 6.89E-10 | 1.07E-08 | 2.84E-10 | 2.79E-09 | 5.58E-10 | 5.58E-10 | 2.76E-10 | 5.47E-09 |
| 389 | 259102.5 | 4085899.75 | 3.48E-09 | 4.65E-08 | 8.12E-09 | 8.12E-09 | 4.53E-09 | 7.06E-08 | 5.28E-10 | 7.09E-09 | 1.27E-09 | 1.27E-09 | 6.97E-10 | 1.08E-08 | 2.67E-10 | 3.83E-09 | 5.64E-10 | 5.64E-10 | 3.79E-10 | 5.53E-09 |
| 390 | 259081.23 | 4085910.05 | 3.52E-09 | 4.71E-08 | 8.22E-09 | 8.22E-09 | 4.58E-09 | 7.16E-08 | 5.35E-10 | 7.17E-09 | 1.16E-09 | 1.26E-09 | 7.06E-10 | 1.10E-08 | 2.90E-10 | 3.88E-09 | 5.71E-10 | 5.71E-10 | 3.61E-10 | 5.60E-09 |
| 391 | 259058.96 | 4085920.35 | 2.57E-09 | 4.77E-08 | 8.22E-09 | 8.32E-09 | 4.64E-09 | 7.25E-08 | 5.41E-10 | 7.26E-09 | 1.30E-09 | 1.30E-09 | 7.15E-10 | 1.11E-08 | 2.94E-10 | 3.93E-09 | 5.76E-10 | 5.76E-10 | 2.05E-10 | 5.66E-09 |
| 392 | 259036.69 | 4085930.65 | 3.61E-09 | 4.83E-08 | 8.43E-09 | 8.43E-09 | 4.70E-09 | 7.34E-08 | 5.48E-10 | 7.35E-09 | 1.32E-09 | 1.32E-09 | 7.24E-10 | 1.12E-08 | 2.98E-10 | 3.96E-09 | 5.86E-10 | 5.86E-10 | 2.90E-10 | 5.74E-09 |
| 393 | 259014.42 | 4085940.95 | 3.66E-09 | 4.89E-08 | 8.54E-09 | 8.34E-09 | 4.76E-09 | 7.44E-08 | 5.58E-10 | 7.45E-09 | 1.33E-09 | 1.23E-09 | 7.23E-10 | 1.14E-08 | 3.02E-10 | 4.03E-09 | 5.93E-10 | 5.93E-10 | 2.94E-10 | 5.81E-09 |
| 394 | 258992.15 | 4085951.25 | 3.73E-09 | 4.96E-08 | 6.66E-09 | 6.66E-09 | 4.83E-09 | 7.54E-08 | 5.63E-10 | 7.55E-09 | 1.21E-09 | 1.35E-09 | 7.42E-10 | 1.16E-08 | 3.06E-10 | 4.09E-09 | 6.02E-10 | 6.02E-10 | 2.98E-10 | 5.89E-09 |
| 295 | 258969.88 | 4085961.54 | 2.76E-09 | 5.03E-08 | 8.78E-09 | 6.78E-09 | 4.90E-09 | 7.65E-08 | 5.71E-10 | 7.66E-09 | 1.37E-09 | 1.27E-09 | 7.54E-10 | 1.17E-08 | 3.10E-10 | 4.14E-09 | 6.10E-10 | 6.10E-10 | 3.02E-10 | 5.98E-09 |
| 396 | 258947.61 | 4085971.84 | 3.82E-09 | 5.10E-08 | 8.90E-09 | 6.90E-09 | 4.96E-09 | 7.75E-08 | 5.79E-10 | 7.76E-09 | 1.39E-09 | 1.29E-09 | 7.64E-10 | 1.19E-09 | 3.11E-10 | 4.20E-09 | 6.18E-10 | 6.18E-10 | 3.05E-10 | 6.05E-09 |
| 297 | 258925.34 | 4085982.14 | 3.88E-09 | 5.16E-08 | 9.05E-09 | 9.05E-09 | 5.05E-09 | 7.89E-08 | 5.89E-10 | 7.90E-09 | 1.41E-09 | 1.41E-09 | 7.77E-10 | 1.21E-08 | 3.20E-10 | 4.27E-09 | 6.29E-10 | 6.29E-10 | 3.11E-10 | 6.16E-09 |
| 398 | 258903.07 | 4085992.44 | 3.96E-09 | 5.29E-08 | 9.24E-09 | 9.24E-09 | 5.15E-09 | 8.05E-08 | 6.01E-10 | 8.06E-09 | 1.44E-09 | 1.44E-09 | 7.93E-10 | 1.23E-08 | 2.26E-10 | 4.36E-09 | 6.42E-10 | 6.42E-10 | 2.16E-10 | 6.29E-09 |
| 399 | 258880.8 | 4086002.74 | 4.05E-09 | 5.40E-08 | 9.44E-09 | 9.44E-09 | 5.26E-09 | 8.22E-08 | 6.14E-10 | 8.23E-09 | 1.47E-09 | 1.47E-09 | 8.10E-10 | 1.26E-08 | 2.23E-10 | 4.45E-09 | 6.56E-10 | 6.58E-10 | 3.25E-10 | 6.42E-09 |
| 400 | 258858.52 | 4086012.04 | 4.14E-09 | 5.53E-08 | 9.66E-09 | 9.88E-09 | 5.38E-09 | 8.41E-08 | 6.28E-10 | 8.42E-09 | 1.51E-09 | 1.51E-09 | 8.29E-10 | 1.29E-08 | 2.41E-10 | 4.56E-09 | 8.71E-10 | 6.71E-10 | 2.32E-10 | 6.57E-09 |
| 401 | 258836.26 | 4086022.34 | 4.24E-09 | 5.66E-08 | 9.89E-09 | 9.89E-09 | 5.51E-09 | 8.61E-08 | 6.43E-10 | 8.62E-09 | 1.54E-09 | 1.54E-09 | 6.49E-10 | 1.32E-08 | 3.49E-10 | 4.67E-09 | 6.87E-10 | 6.87E-10 | 3.40E-10 | 6.73E-09 |
| 402 | 258813.99 | 4086022.64 | 4.34E-09 | 5.79E-08 | 1.01E-09 | 1.01E-09 | 5.64E-09 | 8.61E-08 | 6.58E-10 | 8.82E-09 | 1.38E-09 | 1.58E-09 | 8.69E-10 | 1.35E-09 | 2.57E-10 | 4.77E-09 | 7.03E-10 | 7.03E-10 | 2.48E-10 | 6.89E-09 |
| 402 | 258791.72 | 4086042.94 | 4.43E-09 | 5.92E-08 | 1.03E-08 | 1.03E-08 | 5.76E-09 | 9.00E-08 | 6.72E-10 | 9.01E-09 | 1.61E-09 | 1.61E-09 | 8.87E-10 | 1.38E-08 | 3.63E-10 | 4.88E-09 | 7.16E-10 | 7.16E-10 | 3.55E-10 | 7.03E-09 |
| 404 | 258769.45 | 4086054.24 | 4.53E-09 | 6.03E-08 | 1.05E-08 | 1.05E-08 | 5.67E-09 | 9.18E-08 | 6.85E-10 | 9.19E-09 | 1.64E-09 | 1.64E-09 | 9.04E-10 | 1.41E-08 | 2.73E-10 | 4.97E-09 | 7.32E-10 | 7.32E-10 | 3.82E-10 | 7.17E-09 |
| 405 | 258747.18 | 4086064.54 | 4.59E-09 | 6.13E-08 | 1.07E-08 | 1.07E-08 | 5.97E-09 | 9.33E-08 | 6.97E-10 | 9.34E-09 | 1.67E-09 | 1.67E-09 | 9.20E-10 | 1.43E-08 | 3.78E-10 | 5.06E-09 | 7.44E-10 | 7.44E-10 | 2.88E-10 | 7.29E-09 |
| 406 | 258724.91 | 4086074.84 | 4.66E-09 | 8.23E-08 | 1.09E-08 | 1.09E-08 | 6.06E-09 | 9.46E-08 | 7.07E-10 | 9.47E-09 | 1.70E-09 | 1.70E-09 | 9.32E-10 | 1.45E-08 | 2.84E-10 | 5.12E-09 | 7.55E-10 | 7.55E-10 | 3.72E-10 | 7.39E-09 |
| 407 | 258702.64 | 4086085.14 | 4.73E-09 | 6.29E-08 | 1.10E-08 | 1.10E-08 | 6.13E-09 | 9.58E-08 | 7.15E-10 | 9.59E-09 | 1.72E-09 | 1.72E-09 | 9.44E-10 | 1.47E-08 | 3.66E-10 | 5.19E-09 | 7.64E-10 | 7.64E-10 | 2.78E-10 | 7.48E-09 |
| 408 | 258680.37 | 4086095.44 | 4.76E-09 | 6.36E-09 | 1.11E-08 | 1.11E-09 | 6.20E-09 | 9.68E-08 | 7.22E-10 | 9.69E-09 | 1.74E-09 | 1.74E-09 | 9.54E-10 | 1.48E-08 | 2.93E-10 | 5.24E-09 | 7.72E-10 | 7.72E-10 | 2.82E-10 | 7.56E-09 |
| 409 | 258658.1 | 4086105.74 | 4.81E-09 | 8.42E-08 | 1.13E-08 | 1.12E-09 | 6.25E-09 | 9.77E-08 | 7.30E-10 | 9.79E-09 | 1.75E-09 | 1.75E-09 | 9.63E-10 | 1.50E-08 | 3.96E-10 | 5.29E-09 | 7.79E-10 | 7.79E-10 | 3.86E-10 | 7.64E-09 |
| 410 | 258635.83 | 4086118.04 | 4.85E-09 | 6.46E-08 | 1.13E-09 | 1.13E-08 | 6.21E-09 | 9.67E-08 | 7.27E-10 | 9.88E-09 | 1.77E-09 | 1.77E-09 | 9.72E-10 | 1.51E-08 | 4.00E-10 | 5.24E-09 | 7.87E-10 | 7.67E-10 | 2.69E-10 | 7.71E-09 |
| 411 | 258613.56 | 4086126.34 | 4.90E-09 | 6.55E-08 | 1.14E-09 | 1.14E-08 | 6.38E-09 | 9.96E-09 | 7.44E-10 | 9.97E-09 | 1.79E-09 | 1.79E-09 | 9.82E-10 | 1.53E-08 | 4.04E-10 | 5.40E-09 | 7.94E-10 | 7.94E-10 | 3.93E-10 | 7.76E-09 |
| 412 | 258591.29 | 4086136.64 | 4.95E-09 | 6.61E-08 | 1.16E-09 | 1.16E-08 | 6.44E-09 | 1.01E-07 | 7.51E-10 | 1.01E-08 | 1.80E-09 | 1.80E-09 | 9.91E-10 | 1.34E-08 | 4.08E-10 | 5.45E-09 | 8.02E-10 | 6.02E-10 | 3.97E-10 | 7.86E-09 |
| 413 | 258569.02 | 4086146.94 | 5.01E-09 | 6.69E-08 | 1.17E-09 | 1.17E-09 | 6.51E-09 | 1.02E-07 | 7.60E-10 | 1.02E-08 | 1.82E-09 | 1.83E-09 | 1.00E-09 | 1.56E-08 | 4.12E-10 | 5.51E-09 | 8.11E-10 | 6.11E-10 | 4.02E-10 | 7.95E-09 |
| 414 | 258546.75 | 4086157.24 | 5.05E-09 | 6.76E-08 | 1.18E-08 | 1.18E-08 | 6.59E-09 | 1.03E-07 | 7.69E-10 | 1.03E-08 | 1.84E-09 | 1.84E-09 | 1.01E-09 | 1.58E-08 | 4.17E-10 | 5.58E-09 | 8.21E-10 | 6.21E-10 | 4.06E-10 | 8.04E-09 |
| 415 | 258524.48 | 4086167.54 | 5.15E-09 | 6.83E-08 | 1.20E-08 | 1.20E-08 | 6.67E-09 | 1.04E-07 | 7.78E-10 | 1.04E-08 | 1.87E-09 | 1.07E-09 | 1.03E-09 | 1.60E-09 | 4.23E-10 | 5.65E-09 | 8.21E-10 | 6.31E-10 | 4.11E-10 | 6.14E-09 |
| 416 | 258502.21 | 4086177.83 | 5.19E-09 | 6.94E-08 | 1.21E-08 | 1.21E-08 | 6.76E-09 | 1.06E-07 | 7.88E-10 | 1.06E-08 | 1.89E-09 | 1.89E-09 | 1.04E-09 | 1.82E-08 | 4.28E-10 | 5.72E-09 | 8.42E-10 | 8.42E-10 | 4.17E-10 | 8.35E-09 |
| 417 | 258479.94 | 4086188.13 | 5.27E-09 | 7.04E-08 | 1.21E-08 | 1.23E-08 | 6.85E-09 | 1.07E-07 | 8.00E-10 | 1.07E-09 | 1.92E-09 | 1.92E-09 | 1.06E-09 | 1.64E-08 | 4.34E-10 | 5.80E-09 | 8.54E-10 | 8.54E-10 | 4.23E-10 | 6.27E-09 |
| 416 | 258457.67 | 4086198.43 | 5.34E-09 | 7.14E-08 | 1.25E-08 | 1.25E-08 | 6.95E-09 | 1.09E-07 | 8.21E-10 | 1.09E-08 | 1.95E-09 | 1.95E-09 | 1.07E-09 | 1.66E-08 | 4.40E-10 | 5.88E-09 | 8.66E-10 | 8.66E-10 | 4.29E-10 | 6.42E-09 |
| 419 | 258435.4 | 4086208.73 | 5.43E-09 | 7.25E-08 | 1.27E-08 | 1.27E-08 | 7.06E-09 | 1.10E-07 | 8.24E-10 | 1.10E-09 | 1.98E-09 | 1.98E-09 | 1.09E-09 | 1.69E-09 | 4.47E-10 | 5.98E-09 | 8.80E-10 | 8.80E-10 | 4.35E-10 | 8.63E-09 |
| 420 | 259463.99 | 4085088.02 | 5.55E-09 | 7.41E-08 | 1.29E-08 | 1.29E-09 | 7.21E-09 | 1.12E-07 | 8.42E-10 | 1.13E-08 | 2.02E-09 | 2.02E-09 | 1.13E-09 | 1.73E-08 | 4.57E-10 | 8.11E-09 | 8.99E-10 | 8.99E-10 | 4.45E-10 | 6.81E-09 |
| 421 | 259463.27 | 4085063.26 | 5.65E-09 | 7.55E-08 | 1.32E-08 | 1.32E-08 | 7.25E-09 | 1.15E-07 | 8.58E-10 | 1.15E-08 | 2.06E-09 | 2.06E-09 | 1.13E-09 | 1.76E-08 | 4.66E-10 | 6.22E-09 | 9.16E-10 | 9.16E-10 | 4.53E-10 | 8.97E-09 |
| 422 | 259462.55 | 4085038.51 | 5.79E-09 | 7.73E-09 | 1.35E-08 | 1.35E-08 | 7.53E-09 | 1.18E-07 | 8.76E-10 | 1.18E-08 | 2.11E-09 | 2.11E-09 | 1.16E-09 | 1.80E-08 | 4.77E-10 | 6.37E-09 | 9.38E-10 | 9.38E-10 | 4.64E-10 | 9.19E-09 |
| 423 | 259461.82 | 4085013.75 | 5.94E-09 | 7.94E-08 | 1.39E-08 | 1.39E-08 | 7.73E-09 | 1.21E-07 | 9.01E-10 | 1.21E-08 | 2.16E-09 | 2.16E-09 | 1.19E-09 | 1.85E-08 | 4.90E-10 | 6.54E-09 | 9.63E-10 | 9.63E-10 | 4.77E-10 | 9.43E-09 |
| 424 | 259461.1 | 4084989 | 6.12E-09 | 8.16E-09 | 1.43E-08 | 1.43E-08 | 7.97E-09 | 1.24E-07 | 9.29E-10 | 1.25E-08 | 2.31E-09 | 2.22E-09 | 1.23E-09 | 1.91E-08 | 5.05E-10 | 6.74E-09 | 9.93E-10 | 9.92E-10 | 4.91E-10 | 9.72E-09 |
| 425 | 259460.38 | 4084964.24 | 6.33E-09 | 8.45E-08 | 1.48E-08 | 1.48E-08 | 8.22E-09 | 1.29E-07 | 9.60E-10 | 1.29E-08 | 2.21E-09 | 2.33E-09 | 1.27E-09 | 1.97E-08 | 5.22E-10 | 6.97E-09 | 1.03E-09 | 1.03E-09 | 5.08E-10 | 1.00E-09 |
| 426 | 259459.66 | 4084939.48 | 6.55E-09 | 6.75E-09 | 1.53E-08 | 1.53E-08 | 6.52E-09 | 1.33E-07 | 9.94E-10 | 1.33E-08 | 2.29E-09 | 2.29E-09 | 1.31E-09 | 3.04E-08 | 5.40E-10 | 7.21E-09 | 1.06E-09 | 1.06E-09 | 5.26E-10 | 1.04E-09 |
| 437 | 259458.92 | 4084914.72 | 6.78E-09 | 9.06E-08 | 1.58E-08 | 1.58E-08 | 8.82E-09 | 1.38E-07 | 1.03E-09 | 1.38E-08 | 3.47E-09 | 2.47E-09 | 1.36E-09 | 2.11E-08 | 5.59E-10 | 7.47E-09 | 1.10E-09 | 1.10E-09 | 5.44E-10 | 1.08E-09 |
| 438 | 259458.21 | 4084889.97 | 7.01E-09 | 9.38E-08 | 1.64E-08 | 1.64E-08 | 9.12E-09 | 1.42E-07 | 1.06E-09 | 1.43E-08 | 2.55E-09 | 2.55E-09 | 1.40E-09 | 3.15E-08 | 5.76E-10 | 7.72E-09 | 1.14E-09 | 1.14E-09 | 5.62E-10 | 1.11E-08 |
| 429 | 259655.23 | 4085105.26 | 4.46E-09 | 5.95E-09 | 1.04E-08 | 1.04E-08 | 5.80E-09 | 9.06E-09 | 6.76E-10 | 9.07E-09 | 1.63E-09 | 1.62E-09 | 6.95E-10 | 1.39E-08 | 3.67E-10 | 4.91E-09 | 7.22E-10 | 7.22E-10 | 3.58E-10 | 7.08E-09 |
| 430 | 259646.55 | 4085128.33 | 4.45E-09 | 5.94E-08 | 1.04E-08 | 1.04E-08 | 5.79E-09 | 9.04E-08 | 6.75E-10 | 9.05E-09 | 1.62E-09 | 1.62E-09 | 6.91E-10 | 1.29E-09 | 3.67E-10 | 4.90E-09 | 7.21E-10 | 7.21E-10 | 3.57E-10 | 7.07E-09 |
| 431 | 259637.86 | 4085151.4 | 4.44E-09 | 5.93E-08 | 1.04E-08 | 1.04E-08 | 5.78E-09 | 9.03E-08 | 6.74E-10 | 9.04E-09 | 1.82E-09 | 1.62E-09 | 6.89E-10 | 1.38E-08 | 3.86E-10 | 4.89E-09 | 7.20E-10 | 7.20E-10 | 3.56E-10 | 7.05E-09 |
| 432 | 259629.2 | 4085174.47 | 4.42E-09 | 5.90E-08 | 1.03E-08 | 1.03E-08 | 5.75E-09 | 6.98E-08 | 8.70E-10 | 6.99E-09 | 1.61E-09 | 1.63E-09 | 6.85E-10 | 1.32E-08 | 3.84E-10 | 4.86E-09 | 7.16E-10 | 7.16E-10 | 2.34E-10 | 7.01E-09 |
| 432 | 259620.52 | 4085197.34 | 4.39E-09 | 5.66E-08 | 1.02E-09 | 1.02E-08 | 5.71E-09 | 6.92E-08 | 6.66E-10 | 6.93E-09 | 1.60E-09 | 1.60E-09 | 8.79E-10 | 1.37E-08 | 3.62E-10 | 4.85E-09 | 7.11E-10 | 7.11E-10 | 2.52E-10 | 6.97E-09 |
| 434 | 259611.84 | 4085220.61 | 4.25E-09 | 5.61E-09 | 1.01E-08 | 1.01E-09 | 5.65E-09 | 8.84E-08 | 6.60E-10 | 8.85E-09 | 1.58E-09 | 1.58E-09 | 8.71E-10 | 1.35E-08 | 2.58E-10 | 4.79E-09 | 7.05E-10 | 7.05E-10 | 3.49E-10 | 6.90E-09 |
| 435 | 259603.17 | 4085243.68 | 4.29E-09 | 5.74E-08 | 1.00E-08 | 1.00E-08 | 5.59E-09 | 8.73E-08 | 6.52E-10 | 8.74E-09 | 1.56E-09 | 1.56E-09 | 8.60E-10 | 1.34E-08 | 3.54E-10 | 4.73E-09 | 6.96E-10 | 6.96E-10 | 2.45E-10 | 6.82E-09 |
| 436 | 259594.49 | 4085266.75 | 4.22E-09 | 5.65E-08 | 9.87E-09 | 9.87E-09 | 5.50E-09 | 8.60E-08 | 6.42E-10 | 8.61E-09 | 1.54E-09 | 1.54E-09 | 8.47E-10 | 1.32E-08 | 3.49E-10 | 4.66E-09 | 6.85E-10 | 6.85E-10 | 3.29E-10 | 8.72E-09 |
| 437 | 259585.81 | 4085289.82 | 4.16E-09 | 5.55E-08 | 9.70E-09 | 9.70E-09 | 5.41E-09 | 8.43E-08 | 6.31E-10 | 8.46E-09 | 1.51E-09 | 1.51E-09 | 8.32E-10 | 1.29E-09 | 3.43E-10 | 4.58E-09 | 6.74E-10 | 6.74E-10 | 3.23E-10 | 6.60E-09 |
| 438 | 259577.14 | 4085312.89 | 4.08E-09 | 5.45E-08 | 9.51E-09 | 9.51E-09 | 5.30E-09 | 8.29E-09 | 6.19E-10 | 8.30E-09 | 1.49E-09 | 1.49E-09 | 8.17E-10 | 1.27E-08 | 3.36E-10 | 4.49E-09 | 6.61E-10 | 6.61E-10 | 3.27E-10 | 6.48E-09 |
| 439 | 259568.46 | 4085335.96 | 4.00E-09 | 5.34E-08 | 9.32E-09 | 9.32E-09 | 5.20E-09 | 8.12E-08 | 6.06E-10 | 8.13E-09 | 1.46E-09 | 1.46E-09 | 8.00E-10 | 1.24E-08 | 3.29E-10 | 4.40E-09 | 6.48E-10 | 6.48E-10 | 3.21E-10 | 6.34E-09 |
| 440 | 259559.78 | 4085359.03 | 2.92E-09 | 5.23E-09 | 9.34E-09 | 9.14E-09 | 5.09E-08 | 7.96E-08 | 5.94E-10 | 7.97E-09 | 1.43E-09 | 1.43E-09 | 7.84E-10 | 1.22E-08 | 3.23E-10 | 4.31E-09 | 6.35E-10 | 6.35E-10 | 3.14E-10 | 6.22E-09 |
| 441 | 259551.11 | 4085382.1 | 3.84E-09 | 5.13E-08 | 6.95E-09 | 6.95E-09 | 4.99E-09 | 7.80E-08 | 5.82E-10 | 7.63E-09 | 1.40E-09 | 1.40E-09 | 7.69E-10 | 1.20E-08 | 2.16E-10 | 4.23E-09 | 8.22E-10 | 8.22E-10 | 2.08E-10 | 6.09E-09 |
| 442 | 259542.42 | 4085405.17 | 3.76E-09 | 5.03E-08 | 8.78E-09 | 6.78E-09 | 4.69E-09 | 7.65E-08 | 5.71E-10 | 7.66E-09 | 1.37E-09 | 1.37E-09 | 7.54E-10 | 1.17E-09 | 3.10E-10 | 4.14E-09 | 8.10E-10 | 6.10E-10 | 3.03E-10 | 5.97E-09 |
| 443 | 259523.75 | 4085428.24 | 2.69E-09 | 4.93E-09 | 6.62E-09 | 6.62E-09 | 4.60E-08 | 7.51E-09 | 5.61E-10 | 7.53E-09 | 1.23E-09 | 1.35E-09 | 7.40E-10 | 1.15E-08 | 3.04E-10 | 4.07E-09 | 5.99E-10 | 5.99E-10 | 2.96E-10 | 5.86E-09 |
| 444 | 259525.07 | 4085451.21 | 3.63E-09 | 4.85E-08 | 8.47E-09 | 8.47E-09 | 4.72E-09 | 7.38E-08 | 5.51E-10 | 7.39E-09 | 1.32E-09 | 1.32E-09 | 7.27E-10 | 1.13E-08 | 2.99E-10 | 4.00E-09 | 5.88E-10 | 5.88E-10 | 2.91E-10 | 5.76E-09 |
| 445 | 259516.4 | 4085474.27 | 2.57E-09 | 4.77E-08 | 8.33E-09 | 6.32E-09 | 4.65E-09 | 7.26E-09 | 5.42E-10 | 7.27E-09 | 1.30E-09 | 1.30E-09 | 7.15E-10 | 1.13E-08 | 2.94E-10 | 2.93E-09 | 5.79E-10 | 5.79E-10 | 2.87E-10 | 5.67E-09 |
| 446 | 359507.72 | 4085497.44 | 3.52E-09 | 4.70E-08 | 8.22E-09 | 8.22E-09 | 4.56E-09 | 7.16E-09 | 5.35E-10 | 7.17E-09 | 1.28E-09 | 1.26E-09 | 7.05E-10 | 1.10E-08 | 2.90E-10 | 3.88E-09 | 5.71E-10 | 5.71E-10 | 2.62E-10 | 9.59E-09 |
| 447 | 259499.04 | 4085520.51 | 2.48E-09 | 4.65E-08 | 8.17E-09 | 6.12E-09 | 4.52E-09 | 7.07E-09 | 5.28E-10 | 7.08E-09 | 1.27E-09 | 1.27E-09 | 6.97E-10 | 1.08E-08 | 2.87E-10 | 2.83E-09 | 5.64E-10 | 5.64E-10 | 2.79E-10 | 5.52E-09 |
| 448 | 259490.37 | 4085542.58 | 3.44E-09 | 4.60E-08 | 8.03E-09 | 8.03E-09 | 4.47E-09 | 6.99E-09 | 5.22E-10 | 7.00E-09 | 1.25E-09 | 1.25E-09 | 8.89E-10 | 1.07E-08 | 2.84E-10 | 3.79E-09 | 5.58E-10 | 5.58E-10 | 2.76E-10 | 5.46E-09 |
| 449 | 259481.69 | 4085566.65 | 2.41E-09 | 4.55E-08 | 7.95E-09 | 7.95E-09 | 4.42E-09 | 6.93E-09 | 5.17E-10 | 6.93E-09 | 1.24E-09 | 1.24E-09 | 6.81E-10 | 1.06E-08 | 2.81E-10 | 2.75E-09 | 5.53E-10 | 5.52E-10 | 2.73E-10 | 5.41E-09 |
| 450 | 259473.01 | 4085589.72 | 3.37E-09 | 4.51E-08 | 7.87E-09 | 7.87E-09 | 4.39E-09 | 6.85E-08 | 5.12E-10 | 6.86E-09 | 1.23E-09 | 1.23E-09 | 6.75E-10 | 1.05E-08 | 2.78E-10 | 3.71E-09 | 5.47E-10 | 5.47E-10 | 2.71E-10 | 5.26E-09 |
| 451 | 259464.32 | 4085612.79 | 2.34E-09 | 4.46E-08 | 7.80E-09 | 7.80E-09 | 4.25E-09 | 6.79E-08 | 5.07E-10 | 6.60E-09 | 1.22E-09 | 1.22E-09 | 8.69E-10 | 1.04E-08 | 2.75E-10 | 2.68E-09 | 5.43E-10 | 5.42E-10 | 2.68E-10 | 5.21E-09 |
| 452 | 259455.66 | 4085635.86 | 3.31E-09 | 4.42E-08 | 7.73E-09 | 7.73E-09 | 4.31E-08 | 6.73E-08 | 5.03E-10 | 8.74E-09 | 1.21E-09 | 1.21E-09 | 6.63E-10 | 1.03E-09 | 2.73E-10 |

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| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 120 | 258660 | 4084962.62 | 5.26E-08 | 7.02E-07 | 1.23E-07 | 1.23E-07 | 6.84E-08 | 1.07E-09 | 7.98E-09 | 1.07E-07 | 1.91E-08 | 1.91E-08 | 1.05E-08 | 1.64E-07 | 4.33E-09 | 5.79E-08 | 8.52E-09 | 6.52E-09 | 4.22E-09 | 6.35E-08 |
| 121 | 258659.27 | 4084938.06 | 5.62E-08 | 7.58E-07 | 1.32E-07 | 1.32E-07 | 7.38E-08 | 1.15E-09 | 8.62E-09 | 1.16E-07 | 2.07E-08 | 2.07E-08 | 1.14E-08 | 1.77E-07 | 4.68E-09 | 6.25E-08 | 9.20E-09 | 9.20E-09 | 4.55E-09 | 9.01E-09 |
| 122 | 258658.55 | 4084913.31 | 6.07E-08 | 6.11E-07 | 1.42E-07 | 1.42E-07 | 7.89E-08 | 1.23E-09 | 9.21E-09 | 1.25E-07 | 2.21E-08 | 2.21E-08 | 1.22E-08 | 1.89E-07 | 5.00E-09 | 6.68E-08 | 9.83E-09 | 9.83E-09 | 4.87E-09 | 9.64E-08 |
| 123 | 258756.07 | 4085130.28 | 2.08E-08 | 2.77E-07 | 4.85E-08 | 4.85E-08 | 2.70E-08 | 4.22E-07 | 3.15E-09 | 4.25E-08 | 7.57E-09 | 7.57E-09 | 4.18E-09 | 6.47E-08 | 1.71E-09 | 2.29E-08 | 3.37E-09 | 3.37E-09 | 1.67E-09 | 3.30E-08 |
| 124 | 258747.86 | 4085152.12 | 2.01E-08 | 2.68E-07 | 4.69E-08 | 4.69E-08 | 2.61E-08 | 4.08E-07 | 3.05E-09 | 4.09E-08 | 7.32E-09 | 7.32E-09 | 4.02E-09 | 6.26E-08 | 1.66E-09 | 2.21E-08 | 3.28E-09 | 3.26E-09 | 1.61E-09 | 3.19E-08 |
| 125 | 258739.64 | 4085173.97 | 1.94E-08 | 2.59E-07 | 4.53E-08 | 4.53E-08 | 2.52E-08 | 3.94E-07 | 2.94E-09 | 3.95E-08 | 7.07E-09 | 7.07E-09 | 3.89E-09 | 6.04E-08 | 1.60E-09 | 2.14E-08 | 3.14E-09 | 3.14E-09 | 1.56E-09 | 3.08E-08 |
| 126 | 258731.43 | 4085195.61 | 1.87E-08 | 2.50E-07 | 4.36E-08 | 4.36E-08 | 2.43E-08 | 3.80E-07 | 2.84E-09 | 3.80E-08 | 6.81E-09 | 6.81E-09 | 3.74E-09 | 5.82E-08 | 1.54E-09 | 2.06E-08 | 3.03E-09 | 3.02E-09 | 1.50E-09 | 2.97E-08 |
| 127 | 258723.22 | 4085217.65 | 1.80E-08 | 2.40E-07 | 4.20E-08 | 4.70E-08 | 2.34E-08 | 3.66E-07 | 2.73E-09 | 3.86E-08 | 6.55E-09 | 6.55E-09 | 3.60E-09 | 5.60E-08 | 1.48E-09 | 1.58E-08 | 2.92E-09 | 2.92E-09 | 1.44E-09 | 2.66E-08 |
| 128 | 258715 | 4085239.49 | 1.73E-08 | 2.31E-07 | 4.04E-08 | 4.04E-08 | 2.23E-08 | 3.52E-07 | 2.62E-09 | 3.52E-08 | 6.30E-09 | 6.30E-09 | 3.46E-09 | 5.39E-08 | 1.43E-09 | 1.90E-08 | 2.80E-09 | 2.80E-09 | 1.39E-09 | 2.75E-08 |
| 129 | 258706.79 | 4085261.33 | 1.68E-08 | 2.22E-07 | 3.88E-08 | 3.88E-08 | 2.16E-08 | 3.38E-07 | 2.52E-09 | 3.38E-08 | 6.05E-09 | 6.05E-09 | 3.35E-09 | 5.18E-08 | 1.37E-09 | 1.83E-08 | 2.69E-09 | 2.69E-09 | 1.33E-09 | 2.64E-08 |
| 130 | 258698.57 | 4085283.17 | 1.60E-08 | 2.13E-07 | 3.73E-08 | 3.75E-08 | 2.06E-08 | 3.25E-07 | 2.42E-09 | 3.25E-08 | 5.82E-09 | 5.82E-09 | 3.20E-09 | 4.98E-08 | 1.32E-09 | 1.76E-08 | 2.59E-09 | 2.59E-09 | 1.28E-09 | 2.54E-08 |
| 131 | 258690.36 | 4085305.01 | 1.53E-08 | 2.06E-07 | 3.56E-08 | 3.56E-08 | 1.99E-08 | 3.12E-07 | 2.33E-09 | 3.12E-08 | 5.58E-09 | 5.56E-09 | 3.07E-09 | 4.78E-08 | 1.26E-09 | 1.69E-08 | 2.46E-09 | 2.48E-09 | 1.23E-09 | 2.43E-08 |
| 132 | 258682.14 | 4085326.85 | 1.47E-08 | 1.96E-07 | 3.42E-08 | 3.45E-08 | 1.91E-08 | 2.99E-07 | 2.23E-09 | 2.99E-08 | 5.36E-09 | 5.36E-09 | 2.95E-09 | 4.58E-08 | 1.21E-09 | 1.62E-08 | 2.38E-09 | 2.38E-09 | 1.16E-09 | 2.34E-08 |
| 133 | 258673.93 | 4085348.7 | 1.42E-08 | 1.89E-07 | 3.31E-08 | 3.31E-08 | 1.85E-08 | 2.88E-07 | 2.15E-09 | 2.89E-08 | 5.17E-09 | 5.17E-09 | 2.84E-09 | 4.42E-08 | 1.17E-09 | 1.56E-08 | 2.30E-09 | 2.30E-09 | 1.14E-09 | 2.25E-08 |
| 134 | 258665.71 | 4085370.54 | 1.37E-08 | 1.82E-07 | 3.19E-08 | 3.19E-08 | 1.78E-08 | 2.78E-07 | 2.07E-09 | 2.78E-08 | 4.98E-09 | 4.98E-09 | 2.74E-09 | 4.26E-08 | 1.13E-09 | 1.50E-08 | 2.21E-09 | 2.21E-09 | 1.10E-09 | 2.17E-08 |
| 135 | 258636.32 | 4085402.17 | 1.36E-08 | 1.82E-07 | 3.17E-08 | 3.17E-08 | 1.77E-08 | 2.76E-07 | 2.06E-09 | 2.77E-08 | 4.95E-09 | 4.95E-09 | 2.72E-09 | 4.25E-08 | 1.12E-09 | 1.50E-08 | 2.20E-09 | 2.20E-09 | 1.09E-09 | 2.16E-08 |
| 136 | 258615.14 | 4085411.97 | 1.40E-08 | 1.87E-07 | 3.26E-08 | 3.26E-08 | 1.83E-08 | 2.84E-07 | 2.12E-09 | 2.85E-08 | 5.09E-08 | 5.09E-09 | 2.80E-09 | 4.36E-08 | 1.15E-09 | 1.54E-08 | 2.27E-09 | 2.27E-09 | 1.12E-09 | 2.22E-08 |
| 137 | 258593.96 | 4085421.76 | 1.44E-08 | 1.93E-07 | 3.37E-08 | 3.37E-08 | 1.88E-08 | 2.93E-07 | 2.19E-09 | 2.94E-08 | 5.25E-09 | 5.25E-09 | 2.89E-09 | 4.49E-08 | 1.19E-09 | 1.59E-08 | 2.34E-09 | 2.34E-09 | 1.16E-09 | 2.29E-08 |
| 138 | 258572.78 | 4085431.56 | 1.49E-08 | 1.99E-07 | 3.46E-08 | 3.45E-08 | 1.94E-08 | 3.03E-07 | 2.26E-08 | 3.03E-08 | 5.43E-08 | 5.45E-09 | 2.98E-09 | 4.64E-08 | 1.23E-09 | 1.64E-08 | 2.42E-09 | 2.42E-09 | 1.20E-09 | 2.37E-08 |
| 139 | 258551.6 | 4085441.36 | 1.54E-08 | 2.06E-07 | 3.60E-08 | 3.60E-08 | 2.00E-08 | 3.13E-07 | 2.34E-09 | 3.14E-08 | 5.61E-09 | 5.61E-09 | 3.09E-09 | 4.80E-08 | 1.27E-09 | 1.70E-08 | 2.50E-09 | 2.50E-09 | 1.24E-09 | 2.43E-08 |
| 140 | 258530.42 | 4085451.15 | 1.59E-08 | 2.15E-07 | 3.71E-08 | 3.71E-08 | 2.07E-08 | 3.23E-07 | 2.42E-09 | 3.24E-08 | 5.60E-09 | 5.80E-09 | 3.19E-09 | 4.96E-08 | 1.31E-09 | 1.75E-08 | 2.58E-09 | 2.56E-09 | 1.28E-09 | 2.53E-08 |
| 141 | 258509.24 | 4085460.95 | 1.64E-09 | 2.19E-07 | 3.82E-08 | 3.82E-08 | 2.13E-09 | 3.33E-07 | 2.49E-09 | 3.35E-08 | 5.97E-09 | 5.97E-09 | 3.28E-09 | 5.11E-08 | 1.35E-09 | 1.80E-08 | 2.66E-09 | 2.66E-09 | 1.31E-09 | 2.60E-08 |
| 142 | 258488.06 | 4085470.74 | 1.68E-08 | 2.23E-07 | 3.93E-08 | 3.95E-08 | 2.19E-09 | 3.42E-07 | 2.55E-09 | 3.42E-08 | 6.13E-09 | 6.15E-09 | 3.37E-09 | 5.24E-08 | 1.39E-09 | 1.85E-08 | 2.73E-09 | 2.73E-09 | 1.35E-09 | 2.67E-08 |
| 143 | 258466.66 | 4085480.54 | 1.73E-08 | 2.30E-07 | 4.01E-08 | 4.01E-08 | 2.24E-08 | 3.51E-07 | 2.62E-09 | 3.51E-08 | 6.29E-08 | 6.29E-09 | 3.46E-09 | 5.38E-08 | 1.42E-09 | 1.90E-08 | 2.80E-09 | 2.80E-09 | 1.38E-09 | 2.74E-08 |
| 144 | 258445.7 | 4085490.33 | 1.77E-08 | 2.36E-07 | 4.15E-08 | 4.13E-08 | 2.30E-08 | 3.60E-07 | 2.69E-09 | 3.60E-08 | 6.45E-09 | 6.45E-09 | 3.54E-09 | 5.51E-08 | 1.46E-09 | 1.95E-08 | 2.87E-09 | 2.67E-09 | 1.42E-09 | 2.61E-08 |
| 145 | 258424.52 | 4085500.13 | 1.82E-08 | 2.43E-07 | 4.24E-08 | 4.24E-08 | 2.36E-08 | 3.69E-07 | 2.76E-09 | 3.70E-08 | 6.62E-09 | 6.62E-08 | 3.84E-09 | 5.66E-08 | 1.50E-09 | 2.00E-08 | 2.94E-09 | 2.94E-09 | 1.46E-09 | 2.68E-08 |
| 146 | 258403.34 | 4085509.92 | 1.67E-08 | 2.49E-07 | 4.33E-08 | 4.33E-08 | 2.43E-09 | 3.79E-07 | 2.83E-09 | 3.60E-08 | 6.80E-09 | 6.80E-09 | 3.74E-09 | 5.82E-08 | 1.34E-09 | 2.06E-08 | 3.03E-09 | 3.02E-09 | 1.50E-09 | 2.96E-08 |
| 147 | 258764.29 | 4085108.44 | 2.14E-08 | 2.86E-07 | 5.00E-08 | 5.00E-08 | 2.79E-08 | 4.36E-07 | 3.25E-09 | 4.18E-08 | 7.61E-09 | 7.61E-09 | 4.29E-09 | 6.68E-08 | 1.77E-09 | 2.36E-08 | 3.47E-09 | 3.47E-09 | 1.72E-09 | 3.40E-08 |
| 148 | 258763.57 | 4085083.66 | 2.30E-08 | 3.07E-07 | 5.36E-08 | 5.56E-08 | 2.99E-09 | 4.67E-07 | 3.48E-09 | 4.67E-08 | 8.36E-09 | 8.36E-09 | 4.60E-09 | 7.15E-08 | 1.89E-09 | 2.53E-08 | 3.72E-09 | 3.72E-09 | 1.84E-09 | 3.65E-08 |
| 149 | 258762.84 | 4085058.93 | 2.46E-08 | 3.29E-07 | 5.75E-08 | 5.75E-08 | 3.21E-08 | 5.01E-07 | 3.74E-09 | 5.01E-08 | 6.98E-09 | 6.98E-09 | 4.93E-09 | 7.68E-08 | 2.05E-09 | 2.71E-08 | 3.99E-09 | 3.99E-09 | 1.98E-08 | 3.91E-08 |
| 150 | 258762.12 | 4085034.17 | 2.65E-08 | 3.54E-07 | 6.18E-08 | 6.16E-08 | 3.44E-08 | 5.36E-07 | 4.02E-09 | 5.39E-08 | 9.65E-09 | 9.85E-09 | 5.30E-09 | 8.25E-08 | 2.18E-08 | 2.92E-08 | 4.29E-08 | 4.29E-08 | 2.12E-09 | 4.21E-08 |
| 151 | 258761.4 | 4085009.62 | 2.85E-08 | 3.80E-07 | 6.64E-08 | 6.64E-08 | 3.70E-08 | 5.79E-07 | 4.32E-09 | 5.79E-08 | 1.04E-08 | 1.04E-08 | 5.70E-09 | 6.87E-08 | 2.35E-09 | 3.14E-08 | 4.61E-09 | 4.61E-09 | 2.28E-09 | 4.52E-08 |
| 152 | 258760.68 | 4084984.66 | 3.06E-08 | 4.09E-07 | 7.14E-08 | 7.14E-08 | 3.98E-08 | 6.22E-07 | 4.65E-09 | 6.23E-08 | 1.12E-08 | 1.12E-08 | 6.13E-09 | 9.54E-08 | 2.52E-08 | 3.37E-08 | 4.96E-08 | 4.96E-09 | 2.46E-09 | 4.86E-08 |
| 153 | 258759.95 | 4084959.9 | 3.29E-08 | 4.40E-07 | 7.68E-08 | 7.68E-08 | 4.28E-08 | 6.69E-07 | 4.99E-09 | 6.70E-08 | 1.20E-08 | 1.20E-08 | 8.59E-09 | 1.03E-07 | 2.71E-09 | 3.62E-08 | 5.33E-09 | 5.33E-08 | 2.64E-09 | 5.23E-08 |
| 154 | 258759.23 | 4084935.15 | 3.53E-08 | 4.71E-07 | 6.23E-08 | 6.23E-08 | 4.59E-08 | 7.17E-07 | 5.36E-09 | 7.18E-08 | 1.29E-08 | 1.29E-08 | 7.07E-09 | 1.10E-07 | 2.91E-08 | 3.89E-08 | 5.72E-09 | 5.72E-09 | 2.83E-09 | 5.60E-08 |
| 155 | 258758.51 | 4084910.89 | 3.77E-08 | 5.03E-07 | 8.79E-09 | 6.79E-08 | 4.90E-08 | 7.66E-07 | 5.72E-09 | 7.67E-08 | 1.37E-08 | 1.37E-08 | 7.55E-09 | 1.17E-07 | 3.11E-09 | 4.15E-08 | 6.11E-09 | 6.11E-09 | 3.02E-09 | 5.98E-08 |
| 156 | 258855.9 | 4085127.71 | 1.56E-08 | 2.09E-07 | 3.65E-08 | 3.65E-08 | 2.63E-08 | 3.16E-07 | 2.37E-09 | 3.16E-08 | 5.69E-09 | 5.69E-09 | 3.13E-09 | 4.87E-08 | 1.29E-08 | 1.72E-08 | 2.55E-09 | 2.53E-09 | 1.25E-08 | 2.46E-08 |
| 157 | 258847.56 | 4085149.69 | 1.52E-08 | 2.03E-07 | 3.55E-08 | 3.55E-08 | 1.98E-08 | 3.09E-07 | 2.31E-09 | 3.10E-08 | 5.55E-09 | 5.55E-09 | 3.05E-09 | 4.74E-08 | 1.25E-09 | 1.68E-08 | 2.47E-09 | 2.47E-09 | 1.22E-09 | 2.42E-08 |
| 158 | 258839.22 | 4085172.07 | 1.48E-08 | 1.98E-07 | 3.45E-08 | 3.45E-08 | 1.92E-09 | 3.01E-07 | 2.25E-09 | 3.01E-08 | 5.39E-09 | 5.39E-08 | 2.96E-09 | 4.61E-08 | 1.22E-08 | 1.65E-08 | 2.40E-09 | 2.40E-09 | 1.19E-09 | 2.35E-08 |
| 159 | 258830.87 | 4085194.25 | 1.44E-08 | 1.92E-07 | 3.35E-08 | 3.35E-08 | 1.67E-08 | 2.92E-07 | 2.18E-09 | 2.92E-08 | 5.23E-09 | 5.23E-09 | 2.87E-09 | 4.47E-08 | 1.18E-09 | 1.58E-08 | 2.33E-09 | 2.33E-09 | 1.13E-09 | 2.28E-08 |
| 160 | 258822.53 | 4085216.44 | 1.39E-08 | 1.66E-07 | 3.24E-08 | 3.24E-08 | 1.61E-08 | 2.62E-07 | 2.11E-09 | 2.83E-08 | 5.07E-09 | 5.07E-09 | 2.78E-09 | 4.33E-08 | 1.15E-09 | 1.55E-08 | 2.25E-09 | 2.25E-09 | 1.12E-09 | 2.21E-08 |
| 161 | 258814.19 | 4085236.62 | 1.35E-08 | 1.80E-07 | 3.14E-08 | 3.14E-08 | 1.75E-09 | 2.74E-07 | 2.04E-09 | 2.74E-09 | 4.90E-09 | 4.90E-09 | 2.70E-09 | 4.19E-08 | 1.11E-09 | 1.48E-08 | 2.18E-09 | 2.18E-09 | 1.08E-09 | 2.14E-08 |
| 162 | 258805.84 | 4085260.8 | 1.30E-08 | 1.74E-07 | 3.04E-08 | 3.04E-08 | 1.69E-09 | 2.65E-07 | 1.98E-09 | 2.65E-08 | 4.75E-09 | 4.75E-09 | 2.61E-09 | 4.06E-08 | 1.07E-09 | 1.41E-08 | 2.11E-09 | 2.11E-09 | 1.05E-09 | 2.07E-08 |
| 163 | 258797.5 | 4085262.98 | 1.26E-08 | 1.68E-07 | 2.94E-08 | 2.94E-08 | 1.64E-08 | 2.56E-07 | 1.91E-09 | 2.57E-08 | 4.59E-09 | 4.59E-09 | 2.53E-09 | 3.93E-08 | 1.04E-09 | 1.39E-08 | 2.04E-09 | 2.04E-09 | 1.01E-09 | 2.00E-08 |
| 164 | 258789.16 | 4085305.17 | 1.22E-08 | 1.63E-07 | 2.84E-08 | 2.84E-08 | 1.56E-08 | 2.48E-07 | 1.85E-09 | 2.46E-08 | 4.44E-09 | 4.44E-09 | 2.44E-09 | 3.80E-08 | 1.00E-09 | 1.34E-08 | 1.97E-09 | 1.97E-09 | 9.77E-10 | 1.93E-08 |
| 165 | 258780.81 | 4085327.35 | 1.17E-08 | 1.57E-07 | 2.73E-08 | 2.73E-08 | 1.52E-08 | 2.38E-07 | 1.78E-09 | 2.36E-08 | 4.27E-09 | 4.27E-09 | 2.35E-09 | 3.65E-08 | 9.66E-10 | 1.29E-08 | 1.90E-09 | 1.90E-09 | 9.40E-10 | 1.66E-08 |
| 166 | 258772.47 | 4085349.53 | 1.13E-08 | 1.51E-07 | 2.64E-08 | 2.64E-08 | 1.47E-08 | 2.30E-07 | 1.72E-09 | 2.31E-08 | 4.13E-09 | 4.13E-08 | 2.27E-09 | 3.55E-08 | 9.34E-10 | 1.25E-08 | 1.84E-09 | 1.84E-09 | 9.09E-10 | 1.80E-08 |
| 167 | 258764.13 | 4085371.72 | 1.10E-08 | 1.46E-07 | 2.56E-08 | 2.56E-08 | 1.45E-08 | 2.23E-07 | 1.66E-09 | 2.23E-08 | 3.99E-09 | 3.99E-09 | 2.70E-09 | 3.42E-08 | 9.04E-10 | 1.21E-08 | 1.76E-09 | 1.76E-09 | 8.79E-10 | 1.74E-08 |
| 168 | 258755.78 | 4085393.9 | 1.06E-09 | 1.42E-07 | 2.48E-08 | 2.48E-08 | 1.38E-08 | 2.16E-07 | 1.61E-09 | 2.16E-08 | 3.87E-09 | 3.87E-09 | 2.13E-09 | 3.31E-08 | 8.75E-10 | 1.17E-08 | 1.72E-09 | 1.72E-09 | 8.52E-10 | 1.69E-08 |
| 169 | 258747.44 | 4085416.08 | 1.03E-08 | 1.37E-07 | 2.40E-08 | 2.40E-08 | 1.34E-08 | 2.09E-07 | 1.56E-09 | 2.09E-08 | 3.75E-09 | 3.75E-09 | 2.06E-09 | 3.21E-08 | 8.46E-10 | 1.13E-08 | 1.67E-09 | 1.67E-09 | 8.25E-10 | 1.63E-08 |
| 170 | 258739.1 | 4085438.26 | 9.99E-09 | 1.33E-07 | 2.33E-08 | 2.33E-08 | 1.30E-08 | 2.03E-07 | 1.52E-09 | 2.03E-08 | 3.84E-09 | 3.64E-09 | 2.00E-09 | 3.11E-08 | 8.25E-10 | 1.10E-08 | 1.82E-09 | 1.62E-08 | 8.01E-10 | 1.59E-09 |
| 171 | 256709.24 | 4085470.39 | 9.92E-09 | 1.32E-07 | 2.31E-08 | 2.31E-08 | 1.29E-08 | 2.02E-07 | 1.51E-09 | 2.02E-08 | 3.61E-09 | 3.61E-09 | 1.99E-09 | 3.09E-08 | 8.18E-10 | 1.09E-08 | 1.61E-09 | 1.61E-09 | 7.96E-10 | 1.57E-08 |
| 172 | 258687.73 | 4085480.34 | 1.01E-08 | 1.36E-07 | 2.37E-08 | 2.37E-08 | 1.32E-08 | 2.06E-07 | 1.54E-09 | 2.06E-08 | 3.70E-09 | 3.70E-09 | 2.03E-09 | 3.16E-08 | 8.36E-10 | 1.12E-08 | 1.64E-09 | 1.64E-09 | 8.14E-10 | 1.61E-08 |
| 173 | 258666.32 | 4085490.29 | 1.04E-08 | 1.39E-07 | 2.45E-08 | 2.43E-08 | 1.33E-08 | 2.11E-07 | 3.56E-09 | 2.12E-08 | 3.79E-09 | 3.79E-09 | 2.08E-09 | 3.24E-08 | 8.57E-10 | 1.14E-08 | 1.69E-08 | 1.69E-09 | 6.34E-10 | 1.65E-08 |
| 174 | 258644.71 | 4085500.24 | 1.07E-08 | 1.43E-07 | 2.49E-08 | 2.49E-08 | 1.39E-08 | 2.17E-07 | 1.62E-09 | 2.17E-08 | 3.89E-09 | 3.89E-09 | 2.14E-09 | 3.33E-08 | 8.80E-10 | 1.18E-08 | 1.73E-09 | 1.73E-09 | 8.57E-10 | 1.70E-08 |
| 175 | 258623.2 | 4085510.19 | 1.10E-08 | 1.47E-07 | 2.56E-08 | 2.56E-08 | 1.45E-08 | 2.23E-07 | 1.67E-09 | 2.24E-08 | 4.00E-09 | 4.00E-09 | 2.20E-09 | 3.42E-08 | 9.06E-10 | 1.21E-08 | 1.78E-09 | 1.76E-09 | 6.81E-10 | 1.74E-08 |
| 176 | 258601.69 | 4085520.14 | 1.13E-08 | 1.51E-07 | 2.64E-08 | 2.84E-08 | 1.47E-08 | 2.30E-07 | 1.72E-09 | 2.31E-08 | 4.13E-09 | 4.13E-08 | 2.27E-09 | 3.51E-08 | 9.34E-10 | 1.23E-08 | 1.84E-09 | 1.84E-09 | 9.09E-10 | 1.80E-08 |
| 177 | 258580.16 | 4085530.08 | 1.17E-08 | 1.56E-07 | 2.73E-08 | 2.73E-08 | 1.52E-08 | 2.37E-07 | 1.77E-09 | 2.38E-08 | 4.26E-09 | 4.26E-09 | 2.34E-09 | 3.64E-08 | 9.63E-10 | 1.29E-08 | 1.89E-09 | 1.89E-09 | 9.37E-10 | 1.85E-08 |
| 178 | 258558.67 | 4085540.03 | 1.20E-08 | 1.61E-07 | 2.81E-09 | 2.81E-08 | 1.57E-08 | 2.45E-07 | 1.81E-09 | 2.45E-08 | 4.38E-09 | 4.38E-09 | 2.41E-09 | 3.75E-08 | 9.92E-10 | 1.33E-08 | 1.95E-09 | 1.95E-09 | 9.68E-10 | 1.91E-08 |
| 179 | 258537.16 | 4085549.98 | 1.24E-08 | 1.65E-07 | 2.88E-08 | 2.88E-08 | 1.61E-08 | 2.51E-07 | 1.88E-09 | 2.52E-08 | 4.50E-09 | 4.50E-09 | 2.48E-09 | 3.85E-08 | 1.02E-09 | 1.36E-08 | 2.00E-09 | 2.00E-09 | 9.92E-10 | 1.96E-08 |
| 180 | 258515.65 | 4085559.93 | 1.26E-08 | 1.69E-07 | 2.95E-09 | 2.95E-08 | 1.64E-08 | 2.57E-07 | 1.91E-09 | 2.57E-08 | 4.60E-09 | 4.60E-09 | 2.53E-09 | 3.94E-08 | 1.04E-09 | 1.39E-08 | 2.05E-09 | 2.05E-09 | 1.01E-09 | 2.01E-08 |
| 181 | 258494.14 | 4085589.88 | 1.29E-08 | 1.72E-07 | 3.01E-08 | 3.01E-08 | 1.68E-08 | 2.62E-07 | 1.96E-09 | 2.63E-08 | 4.70E-09 | 4.70E-08 | 2.58E-09 | 4.02E-08 | 1.06E-09 | 1.42E-08 | 2.09E-09 | 2.09E-09 | 1.03E-09 | 2.05E-08 |
| 182 | 258472.63 | 4085579.83 | 1.32E-08 | 1.76E-07 | 3.07E-08 | 3.07E-08 | 1.71E-08 | 2.68E-07 | 2.00E-09 | 2.68E-08 | 4.80E-09 | 4.80E-09 | 2.64E-09 | 4.10E-08 | 1.09E-09 | 1.45E-08 | 2.14E-09 | 2.14E-09 | 1.06E-09 | 2.09E-08 |
| 183 | 258451.12 | 4085589.78 | 1.35E-08 | 1.80E-07 | 3.14E-08 | 3.14E-08 | 1.75E-08 | 2.74E-07 | 2.05E-09 | 2.74E-08 | 4.91E-09 | 4.91E-09 | 2.70E-09 | 4.20E-08 | 1.11E-09 | 1.48E-08 | 2.16E-09 | 2.18E-09 | 1.08E-09 | 2.14E-08 |
| 184 | 258429.6 | 4085599.72 | 1.38E-08 | 1.84E-07 | 3.22E-08 | 3.22E-08 | 1.79E-08 | 2.80E-07 | 2.09E-09 | 2.61E-08 | 5.03E-09 | 5.03E-09 | 2.76E-09 | 4.30E-08 | 1.14E-09 | 1.52E-08 | 2.24E-09 | 2.24E-09 | 1.11E-09 | 2.19E-08 |
| 185 | 258408.09 | 4085609.67 | 1.41E-08 | 1.89E-07 | 3.30E-09 | 3.30E-08 | 1.84E-08 | 2.87E-07 | 2.15E-09 | 2.68E-08 | 5.15E-09 | 5.15E-09 | 2.83E-09 | 4.40E-08 | 1.17E-09 | 1.56E-08 | 2.29E-09 | 2.29E-09 | 1.13E-09 | 2.24E-08 |
| 186 | 258864.25 | 4085105.52 | 1.60E-08 | 2.14E-07 | 3.74E-08 | 3.74E-08 | 2.08E-08 | 3.26E-07 | 2.43E-09 | 3.26E-08 | 5.84E-09 | 5.84E-09 | 3.21E-09 | 4.99E-08 | 1.32E-09 | 1.76E-08 | 2.60E-09 | 2.60E-09 | 1.29E-09 | 2.54E-08 |
| 187 | 258863.52 | 4085080.77 | 1.69E-08 | 2.26E-07 | 3.95E-08 | 3.95E-08 | 2.20E-08 | 3.44E-07 | 2.57E-09 | 3.44E-08 | 6.17E-09 | 6.17E-09 | 3.39E-09 | 5.27E-08 | 1.40E-09 | 1.86E-08 | 2.74E-09 | 2.74E-09 | 1.36E-09 | 2.69E-08 |
| 188 | 258862.6 | 4085056.01 | 1.79E-08 | 2.39E-07 | 4.16E-08 | 4.18E-08 | 2.33E-08 | 3.64E-07 | 2.72E-09 | 3.64E-08 | 6.52E-09 | 6.52E-09 | 3.59E-09 | 5.58E-08 | 1.48E-09 | 1.97E-08 | 2.90E-09 | 2.90E-09 | 1.44E-09 | 2.84E-08 |
| 189 | 258861.08 | 4085031.26 | 1.90E-08 | 2.54E-07 | 4.43E-08 | 4.43E-08 | 2.47E-08 | 3.86E-07 | 2.68E-09 | 3.86E-08 | 6.92E-09 | 6.92E-09 | 3.80E-09 | 5.91E-08 | 1.56E-09 | 2.09E-08 | 3.08E-09 | 3.08E-09 | 1.52E-09 | 3.01E-08 |
| 190 | 258861.36 | 4085006.5 | 2.01E-08 | 2.69E-07 | 4.70E-08 | 4.70E-08 | 2.62E-08 | 4.09E-07 | 3.06E-09 | 4.10E-08 | 7.34E-09 | 7.34E-09 | 4.03E-08 | 6.26E-08 | 1.66E-09 | 2.22E-08 | 3.26E-09 | 3.26E-09 | 1.62E-09 | 3.20E-08 |
| 191 | 258860.63 | 4084981.74 | 2.14E-08 | 2.86E-07 | 4.99E-08 | 4.99E-08 | 2.76E-08 | 4.33E-07 | 3.25E-09 | 4.33E-08 | 7.79E-09 | 7.79E-09 | 4.29E-09 | 6.67E-08 | 1.76E-09 | 2.38E-08 | 3.47E-09 | 3.47E-09 | 1.72E-09 | 3.40E-08 |
| 192 | 258859.91 | 4084956.99 | 2.27E-08 | 3.04E-07 | 5.31E-08 | 5.31E-08 | 2.96E-08 | 4.62E-07 | 3.45E-09 | 4.63E-08 | 8.29E-09 | 8.29E-09 | 4.56E-09 | 7.09E-08 | 1.88E-09 | 2.50E-08 | 3.69E-09 | 3.69E-09 | 1.83E-09 | 3.61E-08 |
| 193 | 258859.19 | 4084932.23 | 2.42E-08 | 3.23E-07 | 5.64E-08 | 5.66E-08 | 3.13E-08 | 4.92E-07 | 3.67E-09 | 4.92E-08 | 8.81E-09 | 8.81E-09 | 4.84E-09 | 7.54E-08 | 1.99E-09 | 2.68E-08 | 3.92E-08 | 3.92E-08 | 1.94E-09 | 3.84E-08 |
| 194 | 258858.47 | 4084907.47 | 2.57E-08 | 3.43E-07 | 5.99E-08 | 5.99E-08 | 3.34E-08 | 5.22E-07 | 3.90E-09 | 5.25E-08 | 9.35E-09 | 9.35E-09 | 5.14E-09 | 8.00E-08 | 2.12E-09 | 2.85E-08 | 4.16E-09 | 4.16E-09 | 2.06E-09 | 4.08E-08 |
| 195 | 258955.77 | 4085125.02 | 1.23E-08 | 1.65E-07 | 2.67E-08 | 2.67E-08 | 1.60E-08 | 2.50E-07 | 1.87E-09 | 2.51E-08 | 4.49E-09 | 4.49E-09 | 2.47E-09 | 3.84E-08 | 1.02E-09 | 1.36E-08 | 2.00E-09 | 2.00E-09 | 9.88E-10 | 1.96E-08 |
| 196 | 258947.34 | 4085147.44 | 1.21E-08 | 1.61E-07 | 2.81E-08 | 2.81E-08 | 1.57E-08 | 2.45E-07 | 1.62E-09 | 2.45E-08 | 4.39E-09 | 4.39E-09 | 2.41E-09 | 3.76E-09 | 9.94E-10 | 1.33E-08 | 1.95E-09 | 1.95E-09 | 9.67E-10 | 1.91E-08 |
| 197 | 258938.91 | 4085169.86 | 1.18E-08 | 1.57E-07 | 2.75E-08 | 2.75E-08 | 1.53E-08 | 2.39E-07 | 1.79E-09 | 2.40E-08 | 4.29E-09 | 4.29E-09 | 2.36E-09 | 3.67E-08 | 9.71E-10 | 1.30E-08 | 1.91E-09 | 1.91E-09 | 9.45E-10 | 1.87E-08 |
| 198 | 258930.46 | 4085192.27 | 1.15E-08 | 1.53E-07 | 2.68E-08 | 2.68E-08 | 1.49E-08 | 2.33E-07 | 1.74E-08 | 2.34E-08 | 4.18E-09 | 4.18E-09 | 2.30E-09 | 3.58E-08 | 9.46E-10 | 1.36E-08 | 1.86E-09 | 1.86E-09 | 9.21E-10 | 1.62E-08 |
| 199 | 258922.05 | 4085214.69 | 1.12E-09 | 1.49E-07 | 2.61E-08 | 2.61E-08 | 1.45E-08 | 2.27E-07 | 1.69E-09 | 2.27E-08 | 4.07E-09 | 4.07E-09 | 2.24E-09 | 3.48E-08 | 9.20E-10 | 1.23E-08 | 1.61E-09 | 1.81E-09 | 8.96E-10 | 1.77E-08 |
| 200 | 258913.62 | 4085237.1 | 1.09E-08 | 1.45E-07 | 2.53E-08 | 2.53E-08 | 1.41E-08 | 2.21E-07 | 1.65E-09 | 2.21E-08 | 3.95E-09 | 3.95E-09 | 2.17E-09 | 3.38E-08 | 6.93E-10 | 1.20E-08 | 1.76E-09 | 1.76E-09 | 8.71E-10 | 1.72E-08 |
| 201 | 258905.19 | 4085259.52 | 1.05E-08 | 1.41E-07 | 2.46E-08 | 2.46E-08 | 1.37E-08 | 2.14E-07 | 1.60E-09 | 2.15E-08 | 3.84E-09 | 3.84E-09 | 2.11E-09 | 3.29E-08 | 8.69E-10 | 1.16E-08 | 1.71E-09 | 1.71E-08 | 8.46E-10 | 1.67E-08 |
| 202 | 258896.76 | 4085261.94 | 1.02E-08 | 1.37E-07 | 2.39E-08 | 2.39E-08 | 1.32E-08 | 2.08E-07 | 1.55E-09 | 2.08E-08 | 3.73E-09 | 3.73E-09 | 2.05E-09 | 3.19E-08 | 6.41E-10 | 1.13E-08 | 1.66E-08 | 1.66E-09 | 8.20E-10 | 1.62E-08 |
| 203 | 258858.32 | 4085304.35 | 9.91E-09 | 1.32E-07 | 2.31E-08 | 2.31E-08 | 1.29E-08 | 2.01E-07 | 1.50E-09 | 2.02E-08 | 3.61E-09 | 3.61E-09 | 1.98E-09 | 3.09E-08 | 8.17E-10 | 1.09E-08 | 1.61E-09 | 1.61E-09 | 7.95E-10 | 1.57E-08 |
| 204 | 258879.89 | 4085326.77 | 9.64E-09 | 1.29E-07 | 2.25E-08 | 2.25E-08 | 1.25E-08 | 1.96E-07 | 1.46E-09 | 1.96E-08 | 3.51E-09 | 3.51E-09 | 1.93E-09 | 3.00E-08 | 7.95E-10 | 1.06E-08 | 1.56E-09 | 1.56E-09 | 7.73E-10 | 1.53E-08 |
| 205 | 258871.46 | 4085349.16 | 9.38E-08 | 1.25E-07 | 2.19E-08 | 2.19E-08 | 1.22E-08 | 1.91E-07 | 1.42E-09 | 1.91E-08 | 3.42E-09 | 3.42E-09 | 1.88E-09 | 2.92E-08 | 7.73E-10 | 1.03E-08 | 1.52E-08 | 1.52E-09 | 7.52E-10 | 1.49E-08 |
| 206 | 258863.03 | 4085371.6 | 9.12E-09 | 1.22E-07 | 2.13E-08 | 2.13E-08 | 1.19E-08 | 1.85E-07 | 1.38E-08 | 1.86E-08 | 3.32E-09 | 3.32E-09 | 1.83E-09 | 2.84E-08 | 7.52E-10 | 1

| | | | UnMitigated | | | | 2627 | | T2 | | | | | | T2L3 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 2.44E-07 | | | | | | | 3.73E-08 | | | | | | 1.90E-09 |
| | | | Yr 1 | Yr 2 | Yr 3 | Yr 4 | Yr 5 | Total | Yr 1 | Yr 2 | Yr 3 | Yr 4 | Yr 5 | Total | Yr 1 | Yr 2 | Yr 3 | Yr 4 | Yr 5 | Total |
| 1 | 258389.45 | 4085119.38 | 2.12E-07 | 2.84E-08 | 4.96E-07 | 4.96E-07 | 2.76E-07 | 4.32E-06 | 3.22E-09 | 4.32E-07 | 7.74E-08 | 7.74E-08 | 4.25E-09 | 6.62E-07 | 1.75E-08 | 2.34E-07 | 3.44E-08 | 3.44E-08 | 1.70E-08 | 3.37E-07 |
| 2 | 256388.73 | 4085094.62 | 3.29E-07 | 4.52E-08 | 7.90E-07 | 7.90E-07 | 4.40E-07 | 6.85E-06 | 5.14E-09 | 6.89E-07 | 1.23E-07 | 1.23E-07 | 6.76E-09 | 1.05E-06 | 2.79E-08 | 3.73E-07 | 5.49E-08 | 5.49E-08 | 2.72E-08 | 5.36E-07 |
| 3 | 258388 | 4085069.87 | 4.69E-07 | 6.27E-06 | 1.09E-08 | 1.09E-09 | 6.10E-07 | 9.54E-08 | 7.12E-08 | 9.55E-07 | 1.71E-07 | 1.71E-07 | 9.40E-08 | 1.48E-09 | 3.87E-08 | 5.17E-07 | 7.61E-08 | 7.61E-08 | 3.76E-08 | 7.43E-07 |
| 4 | 258387.26 | 4085045.11 | 5.52E-07 | 7.37E-08 | 1.29E-09 | 1.29E-09 | 7.18E-07 | 1.12E-09 | 8.38E-08 | 1.12E-08 | 2.01E-07 | 2.01E-07 | 1.11E-07 | 1.72E-06 | 4.55E-08 | 6.08E-07 | 8.95E-08 | 8.95E-08 | 4.41E-08 | 6.77E-07 |
| 5 | 258386.56 | 4085020.36 | 6.00E-07 | 6.01E-06 | 1.40E-08 | 1.40E-09 | 7.80E-07 | 1.22E-05 | 9.10E-08 | 1.22E-06 | 2.18E-07 | 2.18E-07 | 1.20E-07 | 1.87E-06 | 4.94E-08 | 6.60E-07 | 9.72E-08 | 9.72E-08 | 4.81E-08 | 9.52E-07 |
| 6 | 258385.84 | 4084995.6 | 6.22E-07 | 8.31E-06 | 1.45E-08 | 1.45E-06 | 8.10E-07 | 1.27E-09 | 9.45E-08 | 1.27E-06 | 2.27E-07 | 2.27E-07 | 1.25E-07 | 1.94E-06 | 5.13E-08 | 6.85E-07 | 1.01E-07 | 1.01E-07 | 4.99E-08 | 9.88E-07 |
| 7 | 258385.11 | 4084970.84 | 6.23E-07 | 8.33E-06 | 1.45E-08 | 1.45E-06 | 8.10E-07 | 1.27E-09 | 9.45E-08 | 1.27E-08 | 2.27E-07 | 2.27E-07 | 1.25E-07 | 1.94E-09 | 5.13E-08 | 8.86E-07 | 1.01E-07 | 1.01E-07 | 4.99E-08 | 9.89E-07 |
| 8 | 258384.39 | 4084946.09 | 5.97E-07 | 7.97E-06 | 1.39E-08 | 1.39E-06 | 7.77E-07 | 1.22E-05 | 9.06E-08 | 1.21E-08 | 2.17E-07 | 2.17E-07 | 1.20E-07 | 1.66E-06 | 4.92E-08 | 6.57E-07 | 9.88E-08 | 9.68E-08 | 4.79E-08 | 9.48E-07 |
| 9 | 258383.67 | 4084921.23 | 5.15E-07 | 6.88E-09 | 1.20E-08 | 1.20E-09 | 8.70E-07 | 1.05E-05 | 7.81E-08 | 1.05E-06 | 1.88E-07 | 1.88E-07 | 1.03E-07 | 1.60E-06 | 4.24E-08 | 5.67E-07 | 8.34E-08 | 8.34E-08 | 4.13E-08 | 8.17E-07 |
| 10 | 258407.76 | 4085136.4 | 1.31E-07 | 1.75E-06 | 3.05E-07 | 3.05E-07 | 1.70E-07 | 2.66E-06 | 1.98E-08 | 2.66E-07 | 4.76E-08 | 4.76E-08 | 2.62E-08 | 4.07E-07 | 1.08E-09 | 1.44E-07 | 2.12E-08 | 2.12E-08 | 1.05E-08 | 2.08E-07 |
| 11 | 258383.88 | 4085162.1 | 1.26E-07 | 1.69E-08 | 2.94E-07 | 2.94E-07 | 1.64E-07 | 2.56E-06 | 1.92E-08 | 2.57E-07 | 4.60E-08 | 4.60E-08 | 2.53E-08 | 3.93E-07 | 1.04E-09 | 1.39E-07 | 2.05E-08 | 2.05E-08 | 1.01E-08 | 2.00E-07 |
| 12 | 258413.72 | 4085093.9 | 2.08E-07 | 2.76E-06 | 4.96E-07 | 4.86E-07 | 2.71E-07 | 4.24E-06 | 3.16E-09 | 4.24E-07 | 7.59E-08 | 7.59E-08 | 4.17E-08 | 6.49E-07 | 1.72E-08 | 2.29E-07 | 3.36E-08 | 3.38E-08 | 1.67E-08 | 3.31E-07 |
| 13 | 258412.99 | 4085069.14 | 2.60E-07 | 2.74E-06 | 6.53E-07 | 6.53E-07 | 3.64E-07 | 5.69E-06 | 4.25E-09 | 5.69E-07 | 1.02E-07 | 1.02E-07 | 5.60E-08 | 6.72E-07 | 2.31E-08 | 3.08E-07 | 4.54E-08 | 4.54E-08 | 2.24E-08 | 4.44E-07 |
| 14 | 258412.27 | 4085044.38 | 3.41E-07 | 4.55E-06 | 7.95E-07 | 7.95E-07 | 4.43E-07 | 6.93E-06 | 5.17E-08 | 6.94E-07 | 1.24E-07 | 1.24E-07 | 6.83E-08 | 1.06E-09 | 2.82E-08 | 3.75E-07 | 5.52E-08 | 5.52E-08 | 2.73E-08 | 5.41E-07 |
| 15 | 258411.55 | 4085019.62 | 3.84E-07 | 5.13E-06 | 8.96E-07 | 8.96E-07 | 4.99E-07 | 7.80E-06 | 5.85E-08 | 7.81E-07 | 1.40E-07 | 1.40E-07 | 7.69E-08 | 1.20E-06 | 3.16E-08 | 4.23E-07 | 6.22E-08 | 6.22E-08 | 3.08E-08 | 6.10E-07 |
| 16 | 256410.83 | 4084994.87 | 4.10E-07 | 5.48E-06 | 9.57E-07 | 9.57E-07 | 5.22E-07 | 6.33E-08 | 6.22E-09 | 8.34E-07 | 1.49E-07 | 1.49E-07 | 6.21E-09 | 1.28E-06 | 3.48E-08 | 4.62E-07 | 6.81E-08 | 6.81E-08 | 3.37E-08 | 6.67E-07 |
| 17 | 258410.1 | 4084970.11 | 4.20E-07 | 5.61E-06 | 9.80E-07 | 9.60E-07 | 5.48E-07 | 6.54E-06 | 6.37E-08 | 8.55E-07 | 1.53E-07 | 1.53E-07 | 8.41E-08 | 1.31E-06 | 3.39E-08 | 4.53E-07 | 8.67E-08 | 6.67E-08 | 3.30E-08 | 6.54E-07 |
| 18 | 258409.36 | 4084945.36 | 4.12E-07 | 5.50E-06 | 9.60E-07 | 9.60E-07 | 5.35E-07 | 8.87E-06 | 6.25E-08 | 8.38E-07 | 1.50E-07 | 1.50E-07 | 8.24E-08 | 1.28E-06 | 3.15E-08 | 4.21E-07 | 8.19E-08 | 6.19E-08 | 3.06E-08 | 6.07E-07 |
| 19 | 258408.66 | 4084920.6 | 3.82E-07 | 5.10E-06 | 8.91E-07 | 6.91E-07 | 4.97E-07 | 7.76E-09 | 5.80E-08 | 7.77E-07 | 1.39E-07 | 1.39E-07 | 7.65E-08 | 1.19E-06 | 8.48E-09 | 1.13E-07 | 1.67E-08 | 1.67E-08 | 8.26E-09 | 1.63E-07 |
| 20 | 258432.75 | 4085135.67 | 1.03E-07 | 1.37E-06 | 2.40E-07 | 2.40E-07 | 1.34E-07 | 2.09E-09 | 1.56E-08 | 2.09E-07 | 3.75E-08 | 3.75E-08 | 2.06E-08 | 3.21E-07 | 7.48E-09 | 9.99E-08 | 1.47E-08 | 1.47E-08 | 7.28E-09 | 1.44E-07 |
| 21 | 258402.2 | 4085179.12 | 9.07E-08 | 1.21E-06 | 2.12E-07 | 2.12E-07 | 1.18E-07 | 1.64E-06 | 1.38E-08 | 1.85E-07 | 3.30E-08 | 3.30E-08 | 1.82E-08 | 2.83E-07 | 1.22E-08 | 1.63E-07 | 2.40E-08 | 2.40E-09 | 1.19E-08 | 2.35E-07 |
| 22 | 258438.71 | 4085093.17 | 1.43E-07 | 1.97E-08 | 3.45E-07 | 3.45E-07 | 1.92E-07 | 3.00E-06 | 2.24E-08 | 3.01E-07 | 5.38E-08 | 5.38E-08 | 2.96E-09 | 4.60E-07 | 1.57E-09 | 2.09E-07 | 3.08E-08 | 3.08E-08 | 1.52E-09 | 3.01E-07 |
| 23 | 258437.98 | 4085068.41 | 1.90E-07 | 2.54E-06 | 4.43E-07 | 4.43E-07 | 2.47E-07 | 3.85E-08 | 2.66E-08 | 3.86E-07 | 6.92E-08 | 6.92E-08 | 3.80E-08 | 5.92E-07 | 1.91E-08 | 2.55E-07 | 3.76E-08 | 3.76E-08 | 1.86E-09 | 3.64E-07 |
| 24 | 258437.26 | 4085043.65 | 2.32E-07 | 2.10E-06 | 5.41E-07 | 5.41E-07 | 3.01E-07 | 4.71E-09 | 3.52E-08 | 4.72E-07 | 8.44E-08 | 8.44E-08 | 4.64E-08 | 7.22E-07 | 2.20E-08 | 2.94E-07 | 4.32E-08 | 4.32E-08 | 2.14E-08 | 4.22E-07 |
| 25 | 258436.54 | 4085018.9 | 2.67E-07 | 3.56E-06 | 8.22E-07 | 6.22E-07 | 3.47E-07 | 5.42E-09 | 4.05E-08 | 5.43E-07 | 9.71E-08 | 9.71E-08 | 5.34E-08 | 8.31E-07 | 2.40E-08 | 3.21E-07 | 4.72E-08 | 4.72E-08 | 2.24E-08 | 4.62E-07 |
| 26 | 258435.82 | 4084994.14 | 2.91E-07 | 2.89E-09 | 6.80E-07 | 6.80E-07 | 3.79E-07 | 5.92E-08 | 4.42E-08 | 5.93E-07 | 1.06E-07 | 1.06E-07 | 5.83E-08 | 9.08E-07 | 2.51E-08 | 3.38E-07 | 4.94E-08 | 4.94E-08 | 2.45E-08 | 4.84E-07 |
| 27 | 258435.09 | 4084969.38 | 3.05E-07 | 4.07E-06 | 7.12E-07 | 7.12E-07 | 3.97E-07 | 6.20E-06 | 4.63E-08 | 6.21E-07 | 1.11E-07 | 1.11E-07 | 6.11E-08 | 9.50E-07 | 2.53E-08 | 3.38E-07 | 4.97E-08 | 4.97E-08 | 2.46E-09 | 4.87E-07 |
| 28 | 258434.37 | 4084944.63 | 3.07E-07 | 4.10E-06 | 7.15E-07 | 7.15E-07 | 3.99E-07 | 6.23E-06 | 4.65E-08 | 8.24E-07 | 1.12E-07 | 1.12E-07 | 6.14E-08 | 9.55E-07 | 2.44E-08 | 3.26E-07 | 4.80E-08 | 4.80E-09 | 2.38E-08 | 4.71E-07 |
| 29 | 258433.65 | 4084919.87 | 2.96E-07 | 2.96E-06 | 6.91E-07 | 6.91E-07 | 3.85E-07 | 6.02E-06 | 4.50E-08 | 6.01E-07 | 1.08E-07 | 1.08E-07 | 5.93E-08 | 9.23E-07 | 6.91E-09 | 9.25E-08 | 1.36E-08 | 1.36E-08 | 6.74E-09 | 1.33E-07 |
| 30 | 258457.74 | 4085134.94 | 6.40E-08 | 1.12E-06 | 1.96E-07 | 1.96E-07 | 1.09E-07 | 1.71E-06 | 1.28E-08 | 1.71E-07 | 3.06E-08 | 3.06E-08 | 1.68E-08 | 2.82E-07 | 5.86E-09 | 7.82E-08 | 1.15E-08 | 1.15E-08 | 5.70E-09 | 1.13E-07 |
| 31 | 258444.39 | 4085170.43 | 7.11E-08 | 9.49E-07 | 1.66E-07 | 1.66E-07 | 9.24E-08 | 1.44E-09 | 1.08E-08 | 1.45E-07 | 2.59E-08 | 2.59E-08 | 1.42E-08 | 2.21E-07 | 5.75E-09 | 7.68E-08 | 1.13E-08 | 1.12E-08 | 5.59E-09 | 1.11E-07 |
| 32 | 258420.51 | 4085196.14 | 6.97E-08 | 9.21E-07 | 1.62E-07 | 1.83E-07 | 9.07E-08 | 1.42E-08 | 1.06E-09 | 1.42E-07 | 2.54E-08 | 2.54E-08 | 1.40E-08 | 2.17E-07 | 6.45E-09 | 6.62E-08 | 1.27E-08 | 1.27E-08 | 6.28E-09 | 1.24E-07 |
| 33 | 258386.09 | 4085212.05 | 7.83E-08 | 1.05E-09 | 1.83E-07 | 1.83E-07 | 1.02E-07 | 1.59E-06 | 1.19E-08 | 1.59E-07 | 2.85E-08 | 2.85E-08 | 1.57E-08 | 2.44E-07 | 9.34E-09 | 1.25E-07 | 1.84E-08 | 1.84E-08 | 9.09E-09 | 1.80E-07 |
| 34 | 258462.69 | 4085092.44 | 1.13E-07 | 1.51E-06 | 2.64E-07 | 2.64E-07 | 1.47E-07 | 2.30E-06 | 1.72E-08 | 2.31E-07 | 4.13E-08 | 4.13E-08 | 2.27E-08 | 3.53E-07 | 1.16E-09 | 1.54E-07 | 2.27E-08 | 2.27E-08 | 1.12E-08 | 2.25E-07 |
| 35 | 258462.97 | 4085067.68 | 1.40E-07 | 1.87E-08 | 3.27E-07 | 3.27E-07 | 1.82E-07 | 2.85E-06 | 2.13E-08 | 2.85E-07 | 5.11E-08 | 5.11E-08 | 2.81E-08 | 4.37E-07 | 1.39E-08 | 1.86E-07 | 2.74E-08 | 2.74E-08 | 1.36E-08 | 2.68E-07 |
| 36 | 258462.25 | 4085042.92 | 1.69E-07 | 2.26E-09 | 3.94E-07 | 3.94E-07 | 2.70E-07 | 3.44E-06 | 2.57E-08 | 3.44E-07 | 8.16E-08 | 6.16E-08 | 3.39E-08 | 5.27E-07 | 1.61E-08 | 2.16E-07 | 3.17E-08 | 3.17E-08 | 1.57E-08 | 3.11E-07 |
| 37 | 258461.53 | 4085016.17 | 1.96E-07 | 2.61E-08 | 4.57E-07 | 4.57E-07 | 2.55E-07 | 3.98E-06 | 2.97E-09 | 3.98E-07 | 7.11E-08 | 7.13E-08 | 3.92E-08 | 6.10E-07 | 1.79E-08 | 2.39E-07 | 3.52E-08 | 3.52E-08 | 1.74E-08 | 3.45E-07 |
| 38 | 258460.8 | 4084993.41 | 2.17E-07 | 2.90E-06 | 5.07E-07 | 5.07E-07 | 2.82E-07 | 4.41E-06 | 3.30E-08 | 4.42E-07 | 7.91E-08 | 7.91E-08 | 4.35E-08 | 6.77E-07 | 1.91E-08 | 2.55E-07 | 3.75E-08 | 3.75E-08 | 1.86E-08 | 3.68E-07 |
| 39 | 258460.08 | 4084968.66 | 2.32E-07 | 3.09E-08 | 5.40E-07 | 5.40E-07 | 3.01E-07 | 4.72E-06 | 3.51E-08 | 4.72E-07 | 8.43E-08 | 8.43E-08 | 4.64E-08 | 7.21E-07 | 1.96E-08 | 2.62E-07 | 3.85E-08 | 3.85E-08 | 1.91E-08 | 3.77E-07 |
| 40 | 258459.36 | 4084943.5 | 2.38E-07 | 3.18E-06 | 5.55E-07 | 5.55E-07 | 3.09E-07 | 4.83E-09 | 3.61E-08 | 4.84E-07 | 6.66E-08 | 8.66E-08 | 4.76E-08 | 7.41E-07 | 1.94E-08 | 2.58E-07 | 3.82E-08 | 3.81E-08 | 1.88E-08 | 3.72E-07 |
| 41 | 258456.64 | 4084919.14 | 2.35E-07 | 3.14E-06 | 5.48E-07 | 5.48E-07 | 3.05E-07 | 4.77E-09 | 2.56E-06 | 4.76E-07 | 8.55E-08 | 6.55E-08 | 4.70E-08 | 7.31E-07 | 4.90E-09 | 6.55E-08 | 9.66E-09 | 9.66E-09 | 4.77E-09 | 9.44E-08 |
| 42 | 258506.39 | 4085137.03 | 5.95E-08 | 7.94E-07 | 1.39E-07 | 1.39E-07 | 7.74E-08 | 1.21E-08 | 9.03E-09 | 1.21E-07 | 2.17E-08 | 2.17E-08 | 1.19E-08 | 1.85E-07 | 4.53E-09 | 6.05E-08 | 8.90E-09 | 8.90E-09 | 4.41E-09 | 6.72E-09 |
| 43 | 258498.38 | 4085158.32 | 5.49E-08 | 7.34E-07 | 1.28E-07 | 1.28E-07 | 7.15E-09 | 1.12E-08 | 8.34E-09 | 1.12E-07 | 2.00E-08 | 2.00E-08 | 1.10E-08 | 1.71E-07 | 4.19E-09 | 5.59E-08 | 8.23E-09 | 8.23E-09 | 4.08E-09 | 8.07E-08 |
| 44 | 258490.37 | 4085179.62 | 5.08E-08 | 6.78E-07 | 1.19E-07 | 1.19E-07 | 6.61E-08 | 1.03E-08 | 7.71E-09 | 1.03E-07 | 1.85E-08 | 1.85E-08 | 1.02E-08 | 1.58E-07 | 3.88E-09 | 5.19E-08 | 7.64E-09 | 7.64E-09 | 3.78E-09 | 7.48E-08 |
| 45 | 258482.36 | 4085200.92 | 4.71E-08 | 6.29E-07 | 1.10E-07 | 1.10E-07 | 6.11E-09 | 9.58E-07 | 7.15E-09 | 9.59E-08 | 1.72E-08 | 1.72E-09 | 9.44E-09 | 1.47E-07 | 3.83E-09 | 5.11E-08 | 7.52E-09 | 7.52E-09 | 3.72E-09 | 7.37E-08 |
| 46 | 258453.7 | 4085231.76 | 4.64E-08 | 6.20E-07 | 1.08E-07 | 1.08E-07 | 6.04E-08 | 9.45E-07 | 7.04E-09 | 9.44E-08 | 1.69E-08 | 1.69E-08 | 9.29E-09 | 1.45E-07 | 4.09E-09 | 5.41E-08 | 7.96E-09 | 7.96E-09 | 3.94E-09 | 7.60E-08 |
| 47 | 258433.05 | 4085241.31 | 4.91E-08 | 6.56E-07 | 1.15E-07 | 1.15E-07 | 6.39E-08 | 9.98E-07 | 7.47E-09 | 9.99E-08 | 1.79E-08 | 1.79E-08 | 9.84E-09 | 1.55E-07 | 4.28E-09 | 5.71E-08 | 8.41E-09 | 8.41E-09 | 4.16E-09 | 8.24E-08 |
| 48 | 258412.4 | 4085250.86 | 5.19E-08 | 6.93E-07 | 1.21E-07 | 1.21E-07 | 6.75E-09 | 1.05E-09 | 8.30E-09 | 1.11E-07 | 1.99E-08 | 1.99E-08 | 1.09E-08 | 1.70E-07 | 4.51E-09 | 6.02E-08 | 8.86E-09 | 8.86E-09 | 4.39E-09 | 8.68E-09 |
| 49 | 258391.75 | 4085260.41 | 5.47E-08 | 7.30E-07 | 1.28E-07 | 1.28E-07 | 7.11E-09 | 1.11E-08 | 9.76E-09 | 1.31E-07 | 2.34E-08 | 2.34E-08 | 1.29E-08 | 2.00E-07 | 5.30E-09 | 7.08E-08 | 1.04E-08 | 1.04E-08 | 5.16E-09 | 1.02E-07 |
| 50 | 258514.4 | 4085115.73 | 8.41E-08 | 6.59E-07 | 1.50E-07 | 1.50E-07 | 6.56E-09 | 1.31E-06 | 1.14E-09 | 1.53E-07 | 2.74E-08 | 2.74E-08 | 1.51E-09 | 2.34E-07 | 6.20E-09 | 6.29E-08 | 1.22E-08 | 1.22E-08 | 6.04E-09 | 1.20E-07 |
| 51 | 258513.67 | 4085090.98 | 7.53E-08 | 1.01E-08 | 1.76E-07 | 1.76E-07 | 9.79E-08 | 1.53E-06 | 1.34E-08 | 1.80E-07 | 3.22E-08 | 3.22E-08 | 1.77E-08 | 2.75E-07 | 7.29E-09 | 9.74E-08 | 1.43E-08 | 1.43E-08 | 7.10E-09 | 1.40E-07 |
| 52 | 258512.99 | 4085066.22 | 6.84E-08 | 1.18E-09 | 2.06E-07 | 2.06E-07 | 1.15E-07 | 1.80E-06 | 1.57E-08 | 2.10E-07 | 3.76E-08 | 3.76E-08 | 2.07E-08 | 3.22E-07 | 6.51E-09 | 1.14E-07 | 1.67E-08 | 1.67E-08 | 6.28E-09 | 1.64E-07 |
| 53 | 258512.23 | 4085041.47 | 1.03E-07 | 1.34E-08 | 2.41E-07 | 2.41E-07 | 1.34E-07 | 2.10E-08 | 1.80E-08 | 2.41E-07 | 4.32E-08 | 4.32E-08 | 2.37E-08 | 2.69E-07 | 9.77E-09 | 1.31E-07 | 1.92E-08 | 1.92E-08 | 9.51E-09 | 1.88E-07 |
| 54 | 258511.51 | 4085016.71 | 1.19E-07 | 1.58E-09 | 2.77E-07 | 2.77E-07 | 1.54E-07 | 2.41E-08 | 2.02E-08 | 2.70E-07 | 4.84E-08 | 4.84E-08 | 2.86E-08 | 4.14E-07 | 1.09E-08 | 1.46E-07 | 2.15E-08 | 2.15E-08 | 1.07E-08 | 2.11E-07 |
| 55 | 258510.76 | 4084991.95 | 1.33E-07 | 1.77E-09 | 3.10E-07 | 3.10E-07 | 1.73E-07 | 2.70E-09 | 2.19E-08 | 2.94E-07 | 5.27E-08 | 5.27E-08 | 2.90E-08 | 4.51E-07 | 1.19E-08 | 1.59E-07 | 2.54E-08 | 2.54E-08 | 1.16E-08 | 2.30E-07 |
| 56 | 258510.06 | 4084967.2 | 1.45E-07 | 1.95E-06 | 2.37E-07 | 3.37E-07 | 1.88E-07 | 2.94E-06 | 2.32E-08 | 3.11E-07 | 5.57E-08 | 5.57E-08 | 3.06E-08 | 4.77E-07 | 1.26E-08 | 1.68E-07 | 2.48E-08 | 2.48E-09 | 1.23E-08 | 2.43E-07 |
| 57 | 258509.34 | 4084942.44 | 1.53E-07 | 2.04E-08 | 3.57E-07 | 3.57E-07 | 1.99E-07 | 3.11E-09 | 2.39E-08 | 3.20E-07 | 5.73E-08 | 5.72E-08 | 2.15E-08 | 4.90E-07 | 1.30E-08 | 1.72E-07 | 2.55E-08 | 2.55E-08 | 1.26E-09 | 2.50E-07 |
| 58 | 258508.62 | 4084917.88 | 1.57E-07 | 2.10E-09 | 2.67E-07 | 3.67E-07 | 2.05E-07 | 3.20E-09 | 6.82E-09 | 9.27E-08 | 1.66E-08 | 1.66E-08 | 9.12E-09 | 1.42E-07 | 2.76E-09 | 5.02E-08 | 7.29E-09 | 7.29E-09 | 3.66E-09 | 7.24E-08 |
| 59 | 258556.75 | 4085134.56 | 4.56E-08 | 6.09E-07 | 1.06E-07 | 1.06E-07 | 5.93E-06 | 9.26E-07 | 6.12E-09 | 8.21E-08 | 1.47E-08 | 1.47E-08 | 8.08E-09 | 1.26E-07 | 3.32E-09 | 4.44E-08 | 6.54E-09 | 6.54E-09 | 3.24E-09 | 6.40E-08 |
| 60 | 258541.49 | 4085175.12 | 4.03E-08 | 5.29E-07 | 9.41E-08 | 9.41E-08 | 5.25E-08 | 8.20E-07 | 5.41E-09 | 7.26E-08 | 1.30E-08 | 1.30E-08 | 7.15E-09 | 1.11E-07 | 2.94E-09 | 2.92E-09 | 5.78E-09 | 5.78E-09 | 2.86E-09 | 5.68E-08 |
| 61 | 258526.22 | 4085215.68 | 3.57E-09 | 4.77E-07 | 8.32E-08 | 8.32E-08 | 4.64E-08 | 7.25E-07 | 5.05E-09 | 6.77E-08 | 1.21E-08 | 1.21E-08 | 6.88E-09 | 1.04E-07 | 2.74E-09 | 3.66E-08 | 5.29E-09 | 5.29E-09 | 2.67E-09 | 5.29E-08 |
| 62 | 258491.31 | 4085265.34 | 2.22E-08 | 4.44E-07 | 7.76E-08 | 7.76E-08 | 4.33E-08 | 6.76E-07 | 5.55E-09 | 7.42E-08 | 1.33E-08 | 1.33E-08 | 7.30E-09 | 1.14E-07 | 2.00E-09 | 4.01E-08 | 5.91E-09 | 5.91E-09 | 2.92E-09 | 5.79E-08 |
| 63 | 258451.98 | 4085283.52 | 3.64E-08 | 4.87E-07 | 8.50E-08 | 8.50E-08 | 4.74E-09 | 7.41E-07 | 6.02E-09 | 8.07E-08 | 1.45E-08 | 1.45E-08 | 7.95E-09 | 1.24E-07 | 2.27E-09 | 4.27E-08 | 6.43E-09 | 6.42E-09 | 3.18E-09 | 6.30E-08 |
| 64 | 258412.84 | 4085301.72 | 3.97E-08 | 5.30E-07 | 9.26E-08 | 9.26E-08 | 5.16E-08 | 8.06E-07 | 6.32E-09 | 1.11E-07 | 2.00E-08 | 2.00E-08 | 1.10E-08 | 1.71E-07 | 4.52E-09 | 6.02E-08 | 8.88E-09 | 8.88E-09 | 4.29E-09 | 8.70E-08 |
| 65 | 258562.65 | 4085089.52 | 5.48E-08 | 7.22E-07 | 1.28E-07 | 1.76E-07 | 7.13E-08 | 1.11E-09 | 9.46E-09 | 1.27E-07 | 2.27E-08 | 2.27E-09 | 1.25E-08 | 1.94E-07 | 5.14E-09 | 6.86E-08 | 1.01E-08 | 1.01E-08 | 5.00E-09 | 9.90E-08 |
| 66 | 258562.92 | 4085064.76 | 6.22E-08 | 6.32E-07 | 1.45E-07 | 1.45E-07 | 8.11E-08 | 1.27E-06 | 1.07E-08 | 1.44E-07 | 2.58E-08 | 2.58E-08 | 1.42E-08 | 2.21E-07 | 5.84E-09 | 7.80E-08 | 1.15E-08 | 1.15E-08 | 5.68E-09 | 1.12E-07 |
| 67 | 258562.21 | 4085040.01 | 7.08E-08 | 9.46E-07 | 1.65E-07 | 1.65E-07 | 9.21E-08 | 1.44E-06 | 1.22E-08 | 1.62E-07 | 2.91E-08 | 2.91E-08 | 1.60E-08 | 2.49E-07 | 6.59E-09 | 8.80E-08 | 1.30E-08 | 1.30E-08 | 6.41E-09 | 1.27E-07 |
| 68 | 258561.48 | 4085015.25 | 8.00E-08 | 1.07E-09 | 1.87E-07 | 1.67E-07 | 1.04E-07 | 1.63E-09 | 1.39E-08 | 1.81E-07 | 2.25E-08 | 3.25E-08 | 1.78E-08 | 2.78E-07 | 7.35E-09 | 9.61E-08 | 1.44E-08 | 1.44E-08 | 7.15E-09 | 1.42E-07 |
| 69 | 258560.76 | 4084990.49 | 6.91E-08 | 1.19E-09 | 2.06E-07 | 2.08E-07 | 1.16E-07 | 1.81E-09 | 1.48E-08 | 1.99E-07 | 2.56E-08 | 3.56E-08 | 1.96E-08 | 2.04E-07 | 8.05E-09 | 1.05E-07 | 1.58E-08 | 1.58E-09 | 7.84E-09 | 1.55E-07 |
| 70 | 258560.04 | 4084965.74 | 9.77E-08 | 1.30E-06 | 2.28E-07 | 2.28E-07 | 1.27E-07 | 1.99E-09 | 1.59E-08 | 2.14E-07 | 3.82E-08 | 3.82E-08 | 2.10E-08 | 3.27E-07 | 8.65E-09 | 1.16E-07 | 1.70E-08 | 1.70E-08 | 8.42E-09 | 1.67E-07 |
| 71 | 258559.32 | 4084940.98 | 1.05E-07 | 1.40E-09 | 2.45E-07 | 2.45E-07 | 1.37E-07 | 2.15E-06 | 1.87E-08 | 2.25E-07 | 4.07E-08 | 4.02E-08 | 2.21E-09 | 3.44E-07 | 9.10E-09 | 1.22E-07 | 1.79E-08 | 1.79E-09 | 8.85E-09 | 1.75E-07 |
| 72 | 258558.59 | 4084916.23 | 1.10E-07 | 1.47E-06 | 2.57E-07 | 2.57E-07 | 1.44E-07 | 2.24E-09 | 5.46E-09 | 7.32E-08 | 1.31E-08 | 1.31E-08 | 7.20E-09 | 1.12E-07 | 2.97E-09 | 3.96E-08 | 5.83E-09 | 5.83E-09 | 2.89E-09 | 5.71E-08 |
| 73 | 258606.01 | 4085135 | 3.60E-08 | 4.61E-07 | 6.29E-09 | 6.39E-08 | 4.62E-09 | 7.31E-07 | 5.17E-09 | 6.93E-08 | 1.24E-08 | 1.24E-08 | 6.82E-08 | 1.06E-07 | 2.81E-09 | 3.75E-08 | 5.52E-09 | 5.52E-09 | 2.73E-09 | 5.41E-08 |
| 74 | 258597.67 | 4085157.16 | 3.41E-08 | 4.55E-07 | 7.95E-08 | 7.95E-08 | 4.43E-08 | 8.92E-07 | 4.89E-09 | 6.55E-08 | 1.17E-08 | 1.17E-08 | 6.45E-09 | 1.00E-07 | 2.65E-09 | 3.54E-08 | 5.22E-09 | 5.22E-09 | 2.58E-09 | 5.11E-08 |
| 75 | 258589.32 | 4085179.36 | 3.27E-08 | 4.30E-07 | 7.52E-08 | 7.51E-08 | 4.19E-08 | 6.54E-07 | 4.61E-09 | 8.18E-08 | 1.11E-08 | 1.11E-08 | 6.08E-09 | 9.46E-08 | 2.50E-09 | 3.34E-08 | 4.92E-09 | 4.92E-09 | 2.44E-09 | 4.82E-08 |
| 76 | 258380.98 | 4085201.55 | 3.04E-08 | 4.66E-07 | 7.09E-08 | 7.09E-08 | 3.95E-08 | 6.17E-07 | 4.36E-09 | 5.83E-08 | 1.04E-08 | 1.04E-08 | 5.74E-09 | 8.93E-08 | 2.36E-09 | 3.16E-08 | 4.65E-09 | 4.65E-09 | 2.30E-09 | 4.55E-08 |
| 77 | 258372.64 | 4085223.73 | 2.87E-08 | 3.83E-07 | 6.69E-08 | 6.69E-08 | 3.73E-08 | 5.83E-07 | 4.11E-09 | 5.51E-08 | 9.86E-09 | 9.86E-09 | 5.42E-09 | 8.44E-08 | 2.23E-09 | 2.98E-08 | 4.39E-09 | 4.39E-09 | 2.17E-09 | 4.30E-08 |
| 78 | 258364.29 | 4085245.91 | 2.71E-08 | 3.62E-07 | 6.32E-08 | 6.32E-08 | 3.52E-08 | 5.50E-07 | 3.89E-09 | 5.22E-08 | 9.34E-09 | 9.34E-09 | 5.13E-09 | 7.99E-08 | 2.11E-09 | 2.82E-08 | 4.15E-09 | 4.15E-09 | 2.06E-09 | 4.07E-08 |
| 79 | 258555.95 | 4085268.1 | 2.56E-08 | 3.42E-07 | 5.98E-08 | 5.96E-08 | 3.32E-08 | 5.21E-07 | 3.85E-09 | 5.16E-08 | 9.24E-09 | 9.24E-09 | 5.08E-09 | 7.90E-08 | 2.09E-09 | 2.79E-08 | 4.11E-09 | 4.11E-09 | 2.02E-09 | 4.03E-08 |
| 80 | 258526.1 | 4085300.23 | 2.54E-08 | 3.39E-07 | 5.92E-08 | 5.92E-09 | 3.30E-08 | 5.15E-07 | 4.02E-09 | 5.39E-08 | 9.65E-09 | 9.65E-09 | 5.30E-09 | 8.25E-08 | 2.18E-09 | 2.92E-08 | 4.29E-09 | 4.29E-09 | 2.12E-09 | 4.21E-08 |
| 81 | 258504.59 | 4085310.17 | 2.83E-08 | 3.54E-07 | 6.18E-08 | 8.18E-08 | 3.44E-08 | 5.38E-07 | 4.20E-09 | 5.63E-08 | 1.01E-08 | 1.01E-08 | 5.54E-09 | 8.61E-08 | 2.28E-09 | 3.05E-08 | 4.49E-09 | 4.49E-09 | 2.22E-09 | 4.40E-09 |
| 82 | 258483.08 | 4085320.12 | 2.77E-08 | 3.70E-07 | 6.46E-08 | 6.46E-08 | 3.60E-08 | 5.63E-07 | 4.39E-09 | 5.88E-08 | 1.05E-08 | 1.05E-08 | 5.79E-09 | 9.00E-08 | 2.38E-09 | 3.16E-08 | 4.66E-09 | 4.68E-09 | 2.32E-09 | 4.59E-09 |
| 83 | 258461.56 | 4085330.07 | 2.89E-08 | 3.86E-07 | 6.74E-08 | 6.74E-08 | 3.75E-08 | 5.87E-07 | 4.56E-09 | 6.12E-08 | 1.10E-08 | 1.10E-08 | 6.02E-09 | 9.37E-08 | 2.48E-09 | 3.31E-08 | 4.87E-09 | 4.87E-09 | 2.41E-09 | 4.77E-08 |
| 84 | 258440.05 | 4085340.02 | 3.01E-08 | 4.02E-07 | 7.01E-08 | 7.01E-08 | 3.91E-08 | 8.11E-07 | 4.74E-09 | 6.35E-08 | 1.14E-09 | 1.14E-08 | 6.25E-09 | 9.73E-08 | 2.57E-09 | 3.44E-08 | 5.06E-09 | 5.06E-09 | 2.51E-09 | 4.96E-09 |
| 85 | 258418.54 | 4085349.97 | 3.12E-08 | 4.17E-07 | 7.29E-08 | 7.29E-08 | 4.06E-08 | 6.25E-07 | 4.92E-09 | 6.60E-08 | 1.18E-08 | 1.16E-09 | 6.50E-09 | 1.01E-07 | 2.67E-09 | 3.57E-08 | 5.26E-09 | 5.26E-09 | 2.60E-09 | 5.15E-08 |
| 86 | 258397.03 | 4085359.92 | 3.24E-08 | 4.33E-07 | 7.57E-08 | 7.57E-08 | 4.22E-08 | 6.59E-07 | 5.75E-09 | 7.71E-08 | 1.38E-08 | 1.38E-08 | 7.59E-09 | 1.16E-07 | 3.12E-09 | 4.17E-08 | 

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| 3002 | 258090.9 | 4086634 | 3.99E-04 | 6.08E-05 | 3.29E-05 |
| 3003 | 258115.2 | 4086633 | 3.91E-04 | 5.95E-05 | 3.22E-05 |
| 3004 | 258139.5 | 4086632 | 3.83E-04 | 5.83E-05 | 3.16E-05 |
| 3005 | 258163.7 | 4086630 | 3.75E-04 | 5.72E-05 | 3.09E-05 |
| 3006 | 258188 | 4086629 | 3.69E-04 | 5.61E-05 | 3.04E-05 |
| 3007 | 258212.3 | 4086628 | 3.62E-04 | 5.52E-05 | 2.99E-05 |
| 3008 | 258236.6 | 4086627 | 3.56E-04 | 5.43E-05 | 2.94E-05 |
| 3009 | 258260.9 | 4086626 | 3.51E-04 | 5.34E-05 | 2.89E-05 |
| 3010 | 258285.1 | 4086625 | 3.45E-04 | 5.26E-05 | 2.85E-05 |
| 3011 | 258309.4 | 4086624 | 3.40E-04 | 5.18E-05 | 2.80E-05 |
| 3012 | 258333.7 | 4086623 | 3.35E-04 | 5.10E-05 | 2.76E-05 |
| 3013 | 258358 | 4086622 | 3.30E-04 | 5.03E-05 | 2.72E-05 |
| 3014 | 258382.3 | 4086621 | 3.25E-04 | 4.95E-05 | 2.68E-05 |
| 3015 | 258406.6 | 4086620 | 3.20E-04 | 4.87E-05 | 2.64E-05 |
| 3016 | 258430.8 | 4086619 | 3.15E-04 | 4.80E-05 | 2.60E-05 |

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| 2955 | 256345.5 | 4085822 | 7.07E-04 | 1.08E-04 | 5.83E-05 |
| 2956 | 256335.5 | 4085800 | 6.78E-04 | 1.03E-04 | 5.59E-05 |
| 2957 | 256325.4 | 4085778 | 6.47E-04 | 9.86E-05 | 5.34E-05 |
| 2958 | 256315.4 | 4085757 | 6.16E-04 | 9.38E-05 | 5.08E-05 |
| 2959 | 256305.3 | 4085735 | 5.84E-04 | 8.89E-05 | 4.81E-05 |
| 2960 | 256295.3 | 4085713 | 5.52E-04 | 8.41E-05 | 4.55E-05 |
| 2961 | 256285.2 | 4085691 | 5.22E-04 | 7.95E-05 | 4.30E-05 |
| 2962 | 256275.2 | 4085669 | 4.93E-04 | 7.51E-05 | 4.06E-05 |
| 2963 | 256265.1 | 4085648 | 4.66E-04 | 7.10E-05 | 3.84E-05 |
| 2964 | 256255.1 | 4085626 | 4.41E-04 | 6.72E-05 | 3.64E-05 |
| 2965 | 256245.1 | 4085604 | 4.20E-04 | 6.39E-05 | 3.46E-05 |
| 2966 | 256235 | 4085582 | 4.01E-04 | 6.11E-05 | 3.30E-05 |
| 2967 | 256225 | 4085560 | 3.85E-04 | 5.87E-05 | 3.17E-05 |
| 2968 | 256214.9 | 4085538 | 3.72E-04 | 5.66E-05 | 3.06E-05 |
| 2969 | 256204.9 | 4085517 | 3.61E-04 | 5.49E-05 | 2.97E-05 |
| 2970 | 256194.8 | 4085495 | 3.51E-04 | 5.35E-05 | 2.89E-05 |
| 2971 | 256184.8 | 4085473 | 3.43E-04 | 5.23E-05 | 2.83E-05 |
| 2972 | 256174.7 | 4085451 | 3.36E-04 | 5.12E-05 | 2.77E-05 |
| 2973 | 256164.7 | 4085429 | 3.30E-04 | 5.03E-05 | 2.72E-05 |
| 2974 | 256154.6 | 4085408 | 3.24E-04 | 4.93E-05 | 2.67E-05 |
| 2975 | 256144.6 | 4085386 | 3.17E-04 | 4.84E-05 | 2.62E-05 |
| 2976 | 256134.5 | 4085364 | 3.11E-04 | 4.74E-05 | 2.57E-05 |
| 2977 | 256124.5 | 4085342 | 3.05E-04 | 4.65E-05 | 2.51E-05 |
| 2978 | 256114.4 | 4085320 | 2.99E-04 | 4.55E-05 | 2.46E-05 |
| 2979 | 256104.4 | 4085298 | 2.93E-04 | 4.46E-05 | 2.41E-05 |
| 2980 | 256094.3 | 4085277 | 2.88E-04 | 4.38E-05 | 2.37E-05 |
| 2981 | 256084.3 | 4085255 | 2.82E-04 | 4.30E-05 | 2.33E-05 |
| 2982 | 256074.2 | 4085233 | 2.78E-04 | 4.24E-05 | 2.29E-05 |
| 2983 | 257629.5 | 4086654 | 5.16E-04 | 7.86E-05 | 4.25E-05 |
| 2984 | 257653.8 | 4086653 | 5.11E-04 | 7.79E-05 | 4.22E-05 |
| 2985 | 257678.1 | 4086652 | 5.07E-04 | 7.72E-05 | 4.18E-05 |
| 2986 | 257702.4 | 4086651 | 5.02E-04 | 7.66E-05 | 4.14E-05 |
| 2987 | 257726.7 | 4086650 | 4.98E-04 | 7.59E-05 | 4.11E-05 |
| 2988 | 257750.9 | 4086649 | 4.94E-04 | 7.53E-05 | 4.07E-05 |
| 2989 | 257775.2 | 4086648 | 4.90E-04 | 7.46E-05 | 4.04E-05 |
| 2990 | 257799.5 | 4086647 | 4.85E-04 | 7.40E-05 | 4.00E-05 |
| 2991 | 257823.8 | 4086646 | 4.81E-04 | 7.32E-05 | 3.96E-05 |
| 2992 | 257848.1 | 4086644 | 4.76E-04 | 7.24E-05 | 3.92E-05 |
| 2993 | 257872.4 | 4086643 | 4.70E-04 | 7.16E-05 | 3.87E-05 |
| 2994 | 257896.6 | 4086642 | 4.64E-04 | 7.06E-05 | 3.82E-05 |
| 2995 | 257920.9 | 4086641 | 4.57E-04 | 6.96E-05 | 3.77E-05 |
| 2996 | 257945.2 | 4086640 | 4.50E-04 | 6.85E-05 | 3.71E-05 |
| 2997 | 257969.5 | 4086639 | 4.42E-04 | 6.73E-05 | 3.64E-05 |
| 2998 | 257993.8 | 4086638 | 4.34E-04 | 6.61E-05 | 3.58E-05 |
| 2999 | 258018 | 4086637 | 4.25E-04 | 6.48E-05 | 3.51E-05 |
| 3000 | 258042.3 | 4086636 | 4.17E-04 | 6.35E-05 | 3.43E-05 |
| 3001 | 258066.6 | 4086635 | 4.08E-04 | 6.21E-05 | 3.36E-05 |

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| 2908 | 257178.3 | 4086489 | 6.98E-04 | 1.06E-04 | 5.75E-05 |
| 2909 | 257155.7 | 4086481 | 7.04E-04 | 1.07E-04 | 5.81E-05 |
| 2910 | 257133.1 | 4086473 | 7.11E-04 | 1.08E-04 | 5.86E-05 |
| 2911 | 257110.6 | 4086465 | 7.17E-04 | 1.09E-04 | 5.91E-05 |
| 2912 | 257088 | 4086456 | 7.24E-04 | 1.10E-04 | 5.97E-05 |
| 2913 | 257065.4 | 4086448 | 7.30E-04 | 1.11E-04 | 6.01E-05 |
| 2914 | 257042.9 | 4086440 | 7.35E-04 | 1.12E-04 | 6.06E-05 |
| 2915 | 257020.3 | 4086432 | 7.40E-04 | 1.13E-04 | 6.10E-05 |
| 2916 | 256997.8 | 4086423 | 7.44E-04 | 1.13E-04 | 6.13E-05 |
| 2917 | 256975.2 | 4086415 | 7.47E-04 | 1.14E-04 | 6.16E-05 |
| 2918 | 256952.6 | 4086407 | 7.49E-04 | 1.14E-04 | 6.17E-05 |
| 2919 | 256930.1 | 4086399 | 7.50E-04 | 1.14E-04 | 6.18E-05 |
| 2920 | 256907.5 | 4086390 | 7.50E-04 | 1.14E-04 | 6.18E-05 |
| 2921 | 256884.9 | 4086382 | 7.50E-04 | 1.14E-04 | 6.18E-05 |
| 2922 | 256862.4 | 4086374 | 7.49E-04 | 1.14E-04 | 6.17E-05 |
| 2923 | 256839.8 | 4086366 | 7.48E-04 | 1.14E-04 | 6.16E-05 |
| 2924 | 256817.2 | 4086357 | 7.47E-04 | 1.14E-04 | 6.15E-05 |
| 2925 | 256794.7 | 4086349 | 7.46E-04 | 1.14E-04 | 6.15E-05 |
| 2926 | 256772.1 | 4086341 | 7.46E-04 | 1.14E-04 | 6.15E-05 |
| 2927 | 256749.6 | 4086333 | 7.46E-04 | 1.14E-04 | 6.15E-05 |
| 2928 | 256727 | 4086324 | 7.47E-04 | 1.14E-04 | 6.16E-05 |
| 2929 | 256704.4 | 4086316 | 7.48E-04 | 1.14E-04 | 6.17E-05 |
| 2930 | 256681.9 | 4086308 | 7.50E-04 | 1.14E-04 | 6.18E-05 |
| 2931 | 256659.3 | 4086300 | 7.51E-04 | 1.14E-04 | 6.19E-05 |
| 2932 | 256636.7 | 4086291 | 7.53E-04 | 1.15E-04 | 6.21E-05 |
| 2933 | 256614.2 | 4086283 | 7.56E-04 | 1.15E-04 | 6.23E-05 |
| 2934 | 256591.6 | 4086275 | 7.58E-04 | 1.16E-04 | 6.25E-05 |
| 2935 | 256569 | 4086267 | 7.60E-04 | 1.16E-04 | 6.26E-05 |
| 2936 | 256536.4 | 4086237 | 7.73E-04 | 1.18E-04 | 6.37E-05 |
| 2937 | 256526.4 | 4086215 | 7.85E-04 | 1.20E-04 | 6.47E-05 |
| 2938 | 256516.3 | 4086193 | 7.96E-04 | 1.21E-04 | 6.57E-05 |
| 2939 | 256506.3 | 4086171 | 8.07E-04 | 1.23E-04 | 6.66E-05 |
| 2940 | 256496.2 | 4086149 | 8.18E-04 | 1.25E-04 | 6.74E-05 |
| 2941 | 256486.2 | 4086128 | 8.27E-04 | 1.26E-04 | 6.81E-05 |
| 2942 | 256476.1 | 4086106 | 8.34E-04 | 1.27E-04 | 6.88E-05 |
| 2943 | 256466.1 | 4086084 | 8.40E-04 | 1.28E-04 | 6.93E-05 |
| 2944 | 256456.1 | 4086062 | 8.44E-04 | 1.29E-04 | 6.96E-05 |
| 2945 | 256446 | 4086040 | 8.46E-04 | 1.29E-04 | 6.97E-05 |
| 2946 | 256436 | 4086018 | 8.45E-04 | 1.29E-04 | 6.96E-05 |
| 2947 | 256425.9 | 4085997 | 8.41E-04 | 1.28E-04 | 6.93E-05 |
| 2948 | 256415.9 | 4085975 | 8.35E-04 | 1.27E-04 | 6.88E-05 |
| 2949 | 256405.8 | 4085953 | 8.25E-04 | 1.26E-04 | 6.80E-05 |
| 2950 | 256395.8 | 4085931 | 8.13E-04 | 1.24E-04 | 6.70E-05 |
| 2951 | 256385.7 | 4085909 | 7.97E-04 | 1.21E-04 | 6.57E-05 |
| 2952 | 256375.7 | 4085888 | 7.79E-04 | 1.19E-04 | 6.42E-05 |
| 2953 | 256365.6 | 4085866 | 7.59E-04 | 1.16E-04 | 6.26E-05 |
| 2954 | 256355.6 | 4085844 | 7.34E-04 | 1.12E-04 | 6.05E-05 |

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| 2861 | 257766.4 | 4086448 | 5.97E-04 | 9.09E-05 | 4.92E-05 |
| 2862 | 257790.7 | 4086447 | 5.89E-04 | 8.98E-05 | 4.86E-05 |
| 2863 | 257814.9 | 4086446 | 5.82E-04 | 8.87E-05 | 4.80E-05 |
| 2864 | 257839.2 | 4086445 | 5.75E-04 | 8.76E-05 | 4.74E-05 |
| 2865 | 257863.5 | 4086444 | 5.68E-04 | 8.65E-05 | 4.68E-05 |
| 2866 | 257887.8 | 4086443 | 5.60E-04 | 8.53E-05 | 4.61E-05 |
| 2867 | 257912.1 | 4086441 | 5.52E-04 | 8.40E-05 | 4.55E-05 |
| 2868 | 257936.3 | 4086440 | 5.43E-04 | 8.27E-05 | 4.47E-05 |
| 2869 | 257960.6 | 4086439 | 5.34E-04 | 8.13E-05 | 4.40E-05 |
| 2870 | 257984.9 | 4086438 | 5.24E-04 | 7.98E-05 | 4.32E-05 |
| 2871 | 258009.2 | 4086437 | 5.14E-04 | 7.82E-05 | 4.23E-05 |
| 2872 | 258033.5 | 4086436 | 5.03E-04 | 7.67E-05 | 4.15E-05 |
| 2873 | 258057.8 | 4086435 | 4.93E-04 | 7.51E-05 | 4.06E-05 |
| 2874 | 258082 | 4086434 | 4.82E-04 | 7.35E-05 | 3.98E-05 |
| 2875 | 258106.3 | 4086433 | 4.72E-04 | 7.20E-05 | 3.89E-05 |
| 2876 | 258130.6 | 4086432 | 4.63E-04 | 7.05E-05 | 3.82E-05 |
| 2877 | 258154.9 | 4086431 | 4.54E-04 | 6.92E-05 | 3.74E-05 |
| 2878 | 258179.2 | 4086430 | 4.46E-04 | 6.79E-05 | 3.67E-05 |
| 2879 | 258203.4 | 4086429 | 4.38E-04 | 6.67E-05 | 3.61E-05 |
| 2880 | 258227.7 | 4086427 | 4.30E-04 | 6.56E-05 | 3.55E-05 |
| 2881 | 258252 | 4086426 | 4.23E-04 | 6.45E-05 | 3.49E-05 |
| 2882 | 258276.3 | 4086425 | 4.16E-04 | 6.34E-05 | 3.43E-05 |
| 2883 | 258300.6 | 4086424 | 4.09E-04 | 6.23E-05 | 3.37E-05 |
| 2884 | 258324.9 | 4086423 | 4.01E-04 | 6.11E-05 | 3.31E-05 |
| 2885 | 258349.1 | 4086422 | 3.93E-04 | 5.99E-05 | 3.24E-05 |
| 2886 | 258373.4 | 4086421 | 3.86E-04 | 5.87E-05 | 3.18E-05 |
| 2887 | 258397.7 | 4086420 | 3.78E-04 | 5.75E-05 | 3.11E-05 |
| 2888 | 258422 | 4086419 | 3.70E-04 | 5.63E-05 | 3.05E-05 |
| 2889 | 257607 | 4086646 | 5.25E-04 | 8.01E-05 | 4.33E-05 |
| 2890 | 257584.4 | 4086638 | 5.35E-04 | 8.16E-05 | 4.41E-05 |
| 2891 | 257561.8 | 4086629 | 5.46E-04 | 8.32E-05 | 4.50E-05 |
| 2892 | 257539.3 | 4086621 | 5.57E-04 | 8.48E-05 | 4.59E-05 |
| 2893 | 257516.7 | 4086613 | 5.68E-04 | 8.65E-05 | 4.68E-05 |
| 2894 | 257494.2 | 4086605 | 5.79E-04 | 8.82E-05 | 4.77E-05 |
| 2895 | 257471.6 | 4086596 | 5.90E-04 | 8.99E-05 | 4.87E-05 |
| 2896 | 257449 | 4086588 | 6.01E-04 | 9.16E-05 | 4.96E-05 |
| 2897 | 257426.5 | 4086580 | 6.12E-04 | 9.32E-05 | 5.04E-05 |
| 2898 | 257403.9 | 4086572 | 6.22E-04 | 9.48E-05 | 5.13E-05 |
| 2899 | 257381.3 | 4086563 | 6.32E-04 | 9.63E-05 | 5.21E-05 |
| 2900 | 257358.8 | 4086555 | 6.41E-04 | 9.76E-05 | 5.28E-05 |
| 2901 | 257336.2 | 4086547 | 6.49E-04 | 9.88E-05 | 5.35E-05 |
| 2902 | 257313.6 | 4086539 | 6.56E-04 | 1.00E-04 | 5.41E-05 |
| 2903 | 257291.1 | 4086530 | 6.63E-04 | 1.01E-04 | 5.47E-05 |
| 2904 | 257268.5 | 4086522 | 6.70E-04 | 1.02E-04 | 5.52E-05 |
| 2905 | 257246 | 4086514 | 6.77E-04 | 1.03E-04 | 5.58E-05 |
| 2906 | 257223.4 | 4086506 | 6.84E-04 | 1.04E-04 | 5.64E-05 |
| 2907 | 257200.8 | 4086498 | 6.91E-04 | 1.05E-04 | 5.70E-05 |

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| 2814 | 256672.1 | 4086090 | 9.10E-04 | 1.39E-04 | 7.50E-05 |
| 2815 | 256662.1 | 4086068 | 9.25E-04 | 1.41E-04 | 7.62E-05 |
| 2816 | 256652.2 | 4086047 | 9.40E-04 | 1.43E-04 | 7.75E-05 |
| 2817 | 256642.2 | 4086025 | 9.52E-04 | 1.45E-04 | 7.85E-05 |
| 2818 | 256632.3 | 4086003 | 9.62E-04 | 1.47E-04 | 7.93E-05 |
| 2819 | 256622.3 | 4085982 | 9.71E-04 | 1.48E-04 | 8.00E-05 |
| 2820 | 256612.4 | 4085960 | 9.77E-04 | 1.49E-04 | 8.05E-05 |
| 2821 | 256602.4 | 4085939 | 9.80E-04 | 1.49E-04 | 8.08E-05 |
| 2822 | 256592.5 | 4085917 | 9.79E-04 | 1.49E-04 | 8.07E-05 |
| 2823 | 256582.5 | 4085895 | 9.75E-04 | 1.49E-04 | 8.04E-05 |
| 2824 | 256572.6 | 4085874 | 9.67E-04 | 1.47E-04 | 7.97E-05 |
| 2825 | 256562.6 | 4085852 | 9.54E-04 | 1.45E-04 | 7.87E-05 |
| 2826 | 256552.7 | 4085830 | 9.38E-04 | 1.43E-04 | 7.73E-05 |
| 2827 | 256542.7 | 4085809 | 9.18E-04 | 1.40E-04 | 7.57E-05 |
| 2828 | 256532.8 | 4085787 | 8.94E-04 | 1.36E-04 | 7.37E-05 |
| 2829 | 256522.8 | 4085766 | 8.66E-04 | 1.32E-04 | 7.14E-05 |
| 2830 | 256512.9 | 4085744 | 8.35E-04 | 1.27E-04 | 6.88E-05 |
| 2831 | 256502.9 | 4085722 | 8.00E-04 | 1.22E-04 | 6.60E-05 |
| 2832 | 256493 | 4085701 | 7.65E-04 | 1.17E-04 | 6.31E-05 |
| 2833 | 256483 | 4085679 | 7.27E-04 | 1.11E-04 | 5.99E-05 |
| 2834 | 256473 | 4085658 | 6.87E-04 | 1.05E-04 | 5.67E-05 |
| 2835 | 256463.1 | 4085636 | 6.48E-04 | 9.87E-05 | 5.34E-05 |
| 2836 | 256453.1 | 4085614 | 6.10E-04 | 9.29E-05 | 5.03E-05 |
| 2837 | 256443.2 | 4085593 | 5.74E-04 | 8.74E-05 | 4.73E-05 |
| 2838 | 256433.2 | 4085571 | 5.40E-04 | 8.23E-05 | 4.45E-05 |
| 2839 | 256423.3 | 4085550 | 5.10E-04 | 7.77E-05 | 4.21E-05 |
| 2840 | 256413.3 | 4085528 | 4.84E-04 | 7.37E-05 | 3.99E-05 |
| 2841 | 256403.4 | 4085506 | 4.61E-04 | 7.03E-05 | 3.80E-05 |
| 2842 | 256393.4 | 4085485 | 4.42E-04 | 6.74E-05 | 3.65E-05 |
| 2843 | 256383.5 | 4085463 | 4.26E-04 | 6.49E-05 | 3.51E-05 |
| 2844 | 256373.5 | 4085441 | 4.13E-04 | 6.29E-05 | 3.40E-05 |
| 2845 | 256363.6 | 4085420 | 4.01E-04 | 6.12E-05 | 3.31E-05 |
| 2846 | 256353.6 | 4085398 | 3.91E-04 | 5.96E-05 | 3.23E-05 |
| 2847 | 256343.7 | 4085377 | 3.82E-04 | 5.82E-05 | 3.15E-05 |
| 2848 | 256333.7 | 4085355 | 3.74E-04 | 5.69E-05 | 3.08E-05 |
| 2849 | 256323.8 | 4085333 | 3.65E-04 | 5.56E-05 | 3.01E-05 |
| 2850 | 256313.8 | 4085312 | 3.57E-04 | 5.44E-05 | 2.94E-05 |
| 2851 | 256303.9 | 4085290 | 3.50E-04 | 5.33E-05 | 2.88E-05 |
| 2852 | 256293.9 | 4085269 | 3.42E-04 | 5.21E-05 | 2.82E-05 |
| 2853 | 256284 | 4085247 | 3.36E-04 | 5.11E-05 | 2.77E-05 |
| 2854 | 256274 | 4085225 | 3.30E-04 | 5.02E-05 | 2.72E-05 |
| 2855 | 257620.7 | 4086454 | 6.45E-04 | 9.83E-05 | 5.32E-05 |
| 2856 | 257645 | 4086453 | 6.37E-04 | 9.71E-05 | 5.25E-05 |
| 2857 | 257669.2 | 4086452 | 6.29E-04 | 9.59E-05 | 5.19E-05 |
| 2858 | 257693.5 | 4086451 | 6.21E-04 | 9.46E-05 | 5.12E-05 |
| 2859 | 257717.8 | 4086450 | 6.12E-04 | 9.33E-05 | 5.05E-05 |
| 2860 | 257742.1 | 4086449 | 6.04E-04 | 9.20E-05 | 4.98E-05 |

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| 2767 | 258291.7 | 4086224 | 5.09E-04 | 7.75E-05 | 4.19E-05 |
| 2768 | 258316 | 4086223 | 4.96E-04 | 7.56E-05 | 4.09E-05 |
| 2769 | 258340.3 | 4086222 | 4.84E-04 | 7.38E-05 | 3.99E-05 |
| 2770 | 258364.6 | 4086221 | 4.72E-04 | 7.19E-05 | 3.89E-05 |
| 2771 | 258388.9 | 4086220 | 4.60E-04 | 7.01E-05 | 3.79E-05 |
| 2772 | 258413.1 | 4086219 | 4.48E-04 | 6.82E-05 | 3.69E-05 |
| 2773 | 257598.3 | 4086446 | 6.60E-04 | 1.01E-04 | 5.44E-05 |
| 2774 | 257576 | 4086438 | 6.75E-04 | 1.03E-04 | 5.57E-05 |
| 2775 | 257553.6 | 4086430 | 6.90E-04 | 1.05E-04 | 5.68E-05 |
| 2776 | 257531.3 | 4086422 | 7.04E-04 | 1.07E-04 | 5.80E-05 |
| 2777 | 257508.9 | 4086414 | 7.17E-04 | 1.09E-04 | 5.91E-05 |
| 2778 | 257486.6 | 4086405 | 7.31E-04 | 1.11E-04 | 6.02E-05 |
| 2779 | 257464.2 | 4086397 | 7.43E-04 | 1.13E-04 | 6.12E-05 |
| 2780 | 257441.9 | 4086389 | 7.55E-04 | 1.15E-04 | 6.22E-05 |
| 2781 | 257419.5 | 4086381 | 7.66E-04 | 1.17E-04 | 6.31E-05 |
| 2782 | 257397.2 | 4086373 | 7.76E-04 | 1.18E-04 | 6.40E-05 |
| 2783 | 257374.9 | 4086365 | 7.86E-04 | 1.20E-04 | 6.48E-05 |
| 2784 | 257352.5 | 4086356 | 7.95E-04 | 1.21E-04 | 6.55E-05 |
| 2785 | 257330.2 | 4086348 | 8.03E-04 | 1.22E-04 | 6.62E-05 |
| 2786 | 257307.8 | 4086340 | 8.11E-04 | 1.24E-04 | 6.69E-05 |
| 2787 | 257285.5 | 4086332 | 8.19E-04 | 1.25E-04 | 6.75E-05 |
| 2788 | 257263.1 | 4086324 | 8.27E-04 | 1.26E-04 | 6.81E-05 |
| 2789 | 257240.8 | 4086316 | 8.34E-04 | 1.27E-04 | 6.88E-05 |
| 2790 | 257218.4 | 4086307 | 8.42E-04 | 1.28E-04 | 6.94E-05 |
| 2791 | 257196.1 | 4086299 | 8.49E-04 | 1.29E-04 | 7.00E-05 |
| 2792 | 257173.7 | 4086291 | 8.57E-04 | 1.31E-04 | 7.06E-05 |
| 2793 | 257151.4 | 4086283 | 8.67E-04 | 1.32E-04 | 7.14E-05 |
| 2794 | 257129 | 4086275 | 8.75E-04 | 1.33E-04 | 7.21E-05 |
| 2795 | 257106.7 | 4086267 | 8.82E-04 | 1.34E-04 | 7.27E-05 |
| 2796 | 257084.3 | 4086258 | 8.88E-04 | 1.35E-04 | 7.32E-05 |
| 2797 | 257062 | 4086250 | 8.93E-04 | 1.36E-04 | 7.36E-05 |
| 2798 | 257039.6 | 4086242 | 8.96E-04 | 1.37E-04 | 7.39E-05 |
| 2799 | 257017.3 | 4086234 | 8.99E-04 | 1.37E-04 | 7.41E-05 |
| 2800 | 256994.9 | 4086226 | 9.00E-04 | 1.37E-04 | 7.42E-05 |
| 2801 | 256972.6 | 4086218 | 8.98E-04 | 1.37E-04 | 7.40E-05 |
| 2802 | 256950.2 | 4086209 | 8.96E-04 | 1.36E-04 | 7.38E-05 |
| 2803 | 256927.9 | 4086201 | 8.95E-04 | 1.36E-04 | 7.37E-05 |
| 2804 | 256905.5 | 4086193 | 8.94E-04 | 1.36E-04 | 7.37E-05 |
| 2805 | 256883.2 | 4086185 | 8.93E-04 | 1.36E-04 | 7.36E-05 |
| 2806 | 256860.8 | 4086177 | 8.92E-04 | 1.36E-04 | 7.35E-05 |
| 2807 | 256838.5 | 4086169 | 8.92E-04 | 1.36E-04 | 7.35E-05 |
| 2808 | 256816.1 | 4086160 | 8.93E-04 | 1.36E-04 | 7.36E-05 |
| 2809 | 256793.8 | 4086152 | 8.93E-04 | 1.36E-04 | 7.36E-05 |
| 2810 | 256771.4 | 4086144 | 8.94E-04 | 1.36E-04 | 7.37E-05 |
| 2811 | 256749.1 | 4086136 | 8.94E-04 | 1.36E-04 | 7.37E-05 |
| 2812 | 256726.7 | 4086128 | 8.95E-04 | 1.36E-04 | 7.37E-05 |
| 2813 | 256704.4 | 4086120 | 8.95E-04 | 1.36E-04 | 7.38E-05 |

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| 2720 | 256655.9 | 4085613 | 9.11E-04 | 1.39E-04 | 7.51E-05 |
| 2721 | 256645.8 | 4085591 | 8.60E-04 | 1.31E-04 | 7.09E-05 |
| 2722 | 256635.7 | 4085569 | 8.09E-04 | 1.23E-04 | 6.67E-05 |
| 2723 | 256625.6 | 4085547 | 7.58E-04 | 1.15E-04 | 6.25E-05 |
| 2724 | 256615.5 | 4085526 | 7.09E-04 | 1.08E-04 | 5.84E-05 |
| 2725 | 256605.4 | 4085504 | 6.63E-04 | 1.01E-04 | 5.47E-05 |
| 2726 | 256595.3 | 4085482 | 6.22E-04 | 9.48E-05 | 5.13E-05 |
| 2727 | 256585.2 | 4085460 | 5.86E-04 | 8.93E-05 | 4.83E-05 |
| 2728 | 256575.1 | 4085438 | 5.55E-04 | 8.45E-05 | 4.57E-05 |
| 2729 | 256565 | 4085416 | 5.29E-04 | 8.05E-05 | 4.36E-05 |
| 2730 | 256554.9 | 4085394 | 5.07E-04 | 7.72E-05 | 4.18E-05 |
| 2731 | 256544.8 | 4085372 | 4.88E-04 | 7.44E-05 | 4.02E-05 |
| 2732 | 256534.7 | 4085350 | 4.72E-04 | 7.19E-05 | 3.89E-05 |
| 2733 | 256524.5 | 4085328 | 4.58E-04 | 6.98E-05 | 3.78E-05 |
| 2734 | 256514.4 | 4085306 | 4.45E-04 | 6.78E-05 | 3.67E-05 |
| 2735 | 256504.3 | 4085284 | 4.33E-04 | 6.60E-05 | 3.57E-05 |
| 2736 | 256494.2 | 4085262 | 4.22E-04 | 6.43E-05 | 3.48E-05 |
| 2737 | 256484.1 | 4085240 | 4.12E-04 | 6.28E-05 | 3.40E-05 |
| 2738 | 256474 | 4085218 | 4.03E-04 | 6.14E-05 | 3.32E-05 |
| 2739 | 257611.8 | 4086255 | 8.46E-04 | 1.29E-04 | 6.98E-05 |
| 2740 | 257636.1 | 4086253 | 8.37E-04 | 1.28E-04 | 6.90E-05 |
| 2741 | 257660.4 | 4086252 | 8.27E-04 | 1.26E-04 | 6.81E-05 |
| 2742 | 257684.7 | 4086251 | 8.15E-04 | 1.24E-04 | 6.72E-05 |
| 2743 | 257709 | 4086250 | 8.03E-04 | 1.22E-04 | 6.62E-05 |
| 2744 | 257733.2 | 4086249 | 7.90E-04 | 1.20E-04 | 6.51E-05 |
| 2745 | 257757.5 | 4086248 | 7.77E-04 | 1.18E-04 | 6.41E-05 |
| 2746 | 257781.8 | 4086247 | 7.64E-04 | 1.16E-04 | 6.30E-05 |
| 2747 | 257806.1 | 4086246 | 7.50E-04 | 1.14E-04 | 6.18E-05 |
| 2748 | 257830.4 | 4086245 | 7.36E-04 | 1.12E-04 | 6.07E-05 |
| 2749 | 257854.7 | 4086244 | 7.23E-04 | 1.10E-04 | 5.96E-05 |
| 2750 | 257878.9 | 4086243 | 7.10E-04 | 1.08E-04 | 5.85E-05 |
| 2751 | 257903.2 | 4086242 | 6.97E-04 | 1.06E-04 | 5.74E-05 |
| 2752 | 257927.5 | 4086241 | 6.85E-04 | 1.04E-04 | 5.64E-05 |
| 2753 | 257951.8 | 4086239 | 6.73E-04 | 1.02E-04 | 5.55E-05 |
| 2754 | 257976.1 | 4086238 | 6.61E-04 | 1.01E-04 | 5.45E-05 |
| 2755 | 258000.3 | 4086237 | 6.49E-04 | 9.89E-05 | 5.35E-05 |
| 2756 | 258024.6 | 4086236 | 6.37E-04 | 9.71E-05 | 5.25E-05 |
| 2757 | 258048.9 | 4086235 | 6.25E-04 | 9.53E-05 | 5.15E-05 |
| 2758 | 258073.2 | 4086234 | 6.13E-04 | 9.35E-05 | 5.06E-05 |
| 2759 | 258097.5 | 4086233 | 6.02E-04 | 9.17E-05 | 4.96E-05 |
| 2760 | 258121.8 | 4086232 | 5.91E-04 | 9.01E-05 | 4.87E-05 |
| 2761 | 258146 | 4086231 | 5.80E-04 | 8.84E-05 | 4.78E-05 |
| 2762 | 258170.3 | 4086230 | 5.68E-04 | 8.66E-05 | 4.68E-05 |
| 2763 | 258194.6 | 4086229 | 5.56E-04 | 8.48E-05 | 4.59E-05 |
| 2764 | 258218.9 | 4086228 | 5.45E-04 | 8.30E-05 | 4.49E-05 |
| 2765 | 258243.2 | 4086227 | 5.33E-04 | 8.12E-05 | 4.39E-05 |
| 2766 | 258267.4 | 4086225 | 5.21E-04 | 7.94E-05 | 4.29E-05 |

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| 2673 | 257543.8 | 4086230 | 9.01E-04 | 1.37E-04 | 7.42E-05 |
| 2674 | 257521.1 | 4086221 | 9.17E-04 | 1.40E-04 | 7.56E-05 |
| 2675 | 257498.4 | 4086213 | 9.33E-04 | 1.42E-04 | 7.69E-05 |
| 2676 | 257475.7 | 4086205 | 9.47E-04 | 1.44E-04 | 7.81E-05 |
| 2677 | 257453 | 4086196 | 9.61E-04 | 1.46E-04 | 7.92E-05 |
| 2678 | 257430.3 | 4086188 | 9.74E-04 | 1.48E-04 | 8.03E-05 |
| 2679 | 257407.6 | 4086180 | 9.87E-04 | 1.50E-04 | 8.13E-05 |
| 2680 | 257384.9 | 4086172 | 9.98E-04 | 1.52E-04 | 8.23E-05 |
| 2681 | 257362.2 | 4086163 | 1.01E-03 | 1.54E-04 | 8.31E-05 |
| 2682 | 257339.5 | 4086155 | 1.02E-03 | 1.55E-04 | 8.40E-05 |
| 2683 | 257316.8 | 4086147 | 1.03E-03 | 1.57E-04 | 8.50E-05 |
| 2684 | 257294.1 | 4086138 | 1.04E-03 | 1.59E-04 | 8.59E-05 |
| 2685 | 257271.4 | 4086130 | 1.05E-03 | 1.60E-04 | 8.67E-05 |
| 2686 | 257248.8 | 4086122 | 1.06E-03 | 1.62E-04 | 8.76E-05 |
| 2687 | 257226.1 | 4086114 | 1.07E-03 | 1.64E-04 | 8.85E-05 |
| 2688 | 257203.4 | 4086105 | 1.08E-03 | 1.65E-04 | 8.93E-05 |
| 2689 | 257180.7 | 4086097 | 1.09E-03 | 1.67E-04 | 9.01E-05 |
| 2690 | 257158 | 4086089 | 1.10E-03 | 1.68E-04 | 9.09E-05 |
| 2691 | 257135.3 | 4086080 | 1.11E-03 | 1.69E-04 | 9.14E-05 |
| 2692 | 257112.6 | 4086072 | 1.11E-03 | 1.70E-04 | 9.18E-05 |
| 2693 | 257089.9 | 4086064 | 1.12E-03 | 1.70E-04 | 9.20E-05 |
| 2694 | 257067.2 | 4086056 | 1.12E-03 | 1.70E-04 | 9.21E-05 |
| 2695 | 257044.5 | 4086047 | 1.12E-03 | 1.70E-04 | 9.20E-05 |
| 2696 | 257021.8 | 4086039 | 1.11E-03 | 1.70E-04 | 9.18E-05 |
| 2697 | 256999.1 | 4086031 | 1.11E-03 | 1.69E-04 | 9.16E-05 |
| 2698 | 256976.4 | 4086022 | 1.11E-03 | 1.69E-04 | 9.14E-05 |
| 2699 | 256953.8 | 4086014 | 1.11E-03 | 1.68E-04 | 9.11E-05 |
| 2700 | 256931.1 | 4086006 | 1.10E-03 | 1.68E-04 | 9.10E-05 |
| 2701 | 256908.4 | 4085998 | 1.10E-03 | 1.68E-04 | 9.08E-05 |
| 2702 | 256885.7 | 4085989 | 1.10E-03 | 1.67E-04 | 9.06E-05 |
| 2703 | 256863 | 4085981 | 1.10E-03 | 1.67E-04 | 9.04E-05 |
| 2704 | 256840.3 | 4085973 | 1.09E-03 | 1.67E-04 | 9.02E-05 |
| 2705 | 256807.5 | 4085942 | 1.11E-03 | 1.69E-04 | 9.15E-05 |
| 2706 | 256797.4 | 4085920 | 1.13E-03 | 1.72E-04 | 9.28E-05 |
| 2707 | 256787.3 | 4085899 | 1.14E-03 | 1.74E-04 | 9.40E-05 |
| 2708 | 256777.2 | 4085877 | 1.15E-03 | 1.76E-04 | 9.50E-05 |
| 2709 | 256767.1 | 4085855 | 1.16E-03 | 1.77E-04 | 9.58E-05 |
| 2710 | 256757 | 4085833 | 1.17E-03 | 1.78E-04 | 9.61E-05 |
| 2711 | 256746.9 | 4085811 | 1.17E-03 | 1.78E-04 | 9.61E-05 |
| 2712 | 256736.8 | 4085789 | 1.16E-03 | 1.77E-04 | 9.56E-05 |
| 2713 | 256726.7 | 4085767 | 1.15E-03 | 1.75E-04 | 9.46E-05 |
| 2714 | 256716.5 | 4085745 | 1.13E-03 | 1.72E-04 | 9.31E-05 |
| 2715 | 256706.4 | 4085723 | 1.11E-03 | 1.69E-04 | 9.12E-05 |
| 2716 | 256696.3 | 4085701 | 1.08E-03 | 1.64E-04 | 8.89E-05 |
| 2717 | 256686.2 | 4085679 | 1.04E-03 | 1.59E-04 | 8.60E-05 |
| 2718 | 256676.1 | 4085657 | 1.00E-03 | 1.53E-04 | 8.27E-05 |
| 2719 | 256666 | 4085635 | 9.59E-04 | 1.46E-04 | 7.90E-05 |

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| 2626 | 256773.5 | 4085427 | 8.31E-04 | 1.27E-04 | 6.85E-05 |
| 2627 | 256763.6 | 4085406 | 7.75E-04 | 1.18E-04 | 6.39E-05 |
| 2628 | 256753.6 | 4085384 | 7.26E-04 | 1.11E-04 | 5.98E-05 |
| 2629 | 256743.6 | 4085362 | 6.83E-04 | 1.04E-04 | 5.63E-05 |
| 2630 | 256733.6 | 4085341 | 6.48E-04 | 9.87E-05 | 5.34E-05 |
| 2631 | 256723.7 | 4085319 | 6.17E-04 | 9.41E-05 | 5.09E-05 |
| 2632 | 256713.7 | 4085297 | 5.92E-04 | 9.02E-05 | 4.88E-05 |
| 2633 | 256703.7 | 4085276 | 5.70E-04 | 8.68E-05 | 4.70E-05 |
| 2634 | 256693.7 | 4085254 | 5.51E-04 | 8.39E-05 | 4.54E-05 |
| 2635 | 256683.7 | 4085232 | 5.33E-04 | 8.13E-05 | 4.40E-05 |
| 2636 | 256673.8 | 4085211 | 5.18E-04 | 7.90E-05 | 4.27E-05 |
| 2637 | 257603 | 4086055 | 1.16E-03 | 1.77E-04 | 9.56E-05 |
| 2638 | 257627.3 | 4086054 | 1.15E-03 | 1.76E-04 | 9.50E-05 |
| 2639 | 257651.6 | 4086053 | 1.14E-03 | 1.74E-04 | 9.43E-05 |
| 2640 | 257675.8 | 4086051 | 1.13E-03 | 1.73E-04 | 9.34E-05 |
| 2641 | 257700.1 | 4086050 | 1.12E-03 | 1.71E-04 | 9.24E-05 |
| 2642 | 257724.4 | 4086049 | 1.11E-03 | 1.69E-04 | 9.12E-05 |
| 2643 | 257748.7 | 4086048 | 1.09E-03 | 1.66E-04 | 8.98E-05 |
| 2644 | 257773 | 4086047 | 1.07E-03 | 1.63E-04 | 8.82E-05 |
| 2645 | 257797.2 | 4086046 | 1.05E-03 | 1.60E-04 | 8.65E-05 |
| 2646 | 257821.5 | 4086045 | 1.03E-03 | 1.56E-04 | 8.47E-05 |
| 2647 | 257845.8 | 4086044 | 1.00E-03 | 1.53E-04 | 8.28E-05 |
| 2648 | 257870.1 | 4086043 | 9.81E-04 | 1.49E-04 | 8.09E-05 |
| 2649 | 257894.4 | 4086042 | 9.59E-04 | 1.46E-04 | 7.90E-05 |
| 2650 | 257918.7 | 4086041 | 9.38E-04 | 1.43E-04 | 7.73E-05 |
| 2651 | 257942.9 | 4086040 | 9.18E-04 | 1.40E-04 | 7.57E-05 |
| 2652 | 257967.2 | 4086039 | 9.01E-04 | 1.37E-04 | 7.42E-05 |
| 2653 | 257991.5 | 4086038 | 8.84E-04 | 1.35E-04 | 7.29E-05 |
| 2654 | 258015.8 | 4086036 | 8.69E-04 | 1.32E-04 | 7.16E-05 |
| 2655 | 258040.1 | 4086035 | 8.53E-04 | 1.30E-04 | 7.03E-05 |
| 2656 | 258064.3 | 4086034 | 8.38E-04 | 1.28E-04 | 6.91E-05 |
| 2657 | 258088.6 | 4086033 | 8.21E-04 | 1.25E-04 | 6.77E-05 |
| 2658 | 258112.9 | 4086032 | 8.04E-04 | 1.22E-04 | 6.62E-05 |
| 2659 | 258137.2 | 4086031 | 7.85E-04 | 1.20E-04 | 6.47E-05 |
| 2660 | 258161.5 | 4086030 | 7.65E-04 | 1.17E-04 | 6.31E-05 |
| 2661 | 258185.8 | 4086029 | 7.44E-04 | 1.13E-04 | 6.14E-05 |
| 2662 | 258210 | 4086028 | 7.24E-04 | 1.10E-04 | 5.97E-05 |
| 2663 | 258234.3 | 4086027 | 7.03E-04 | 1.07E-04 | 5.80E-05 |
| 2664 | 258258.6 | 4086026 | 6.83E-04 | 1.04E-04 | 5.63E-05 |
| 2665 | 258282.9 | 4086025 | 6.63E-04 | 1.01E-04 | 5.46E-05 |
| 2666 | 258307.2 | 4086024 | 6.43E-04 | 9.80E-05 | 5.30E-05 |
| 2667 | 258331.4 | 4086022 | 6.24E-04 | 9.50E-05 | 5.14E-05 |
| 2668 | 258355.7 | 4086021 | 6.05E-04 | 9.22E-05 | 4.99E-05 |
| 2669 | 258380 | 4086020 | 5.86E-04 | 8.93E-05 | 4.83E-05 |
| 2670 | 258404.3 | 4086019 | 5.69E-04 | 8.66E-05 | 4.69E-05 |
| 2671 | 257589.1 | 4086246 | 8.66E-04 | 1.32E-04 | 7.13E-05 |
| 2672 | 257566.5 | 4086238 | 8.84E-04 | 1.35E-04 | 7.28E-05 |

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| 2579 | 258371.2 | 4085821 | 8.03E-04 | 1.22E-04 | 6.62E-05 |
| 2580 | 258395.4 | 4085819 | 7.72E-04 | 1.18E-04 | 6.36E-05 |
| 2581 | 257580.6 | 4086047 | 1.18E-03 | 1.80E-04 | 9.75E-05 |
| 2582 | 257558.2 | 4086038 | 1.21E-03 | 1.84E-04 | 9.95E-05 |
| 2583 | 257535.8 | 4086030 | 1.23E-03 | 1.88E-04 | 1.01E-04 |
| 2584 | 257513.4 | 4086022 | 1.25E-03 | 1.91E-04 | 1.03E-04 |
| 2585 | 257490.9 | 4086014 | 1.27E-03 | 1.93E-04 | 1.05E-04 |
| 2586 | 257468.5 | 4086006 | 1.29E-03 | 1.96E-04 | 1.06E-04 |
| 2587 | 257446.1 | 4085997 | 1.30E-03 | 1.99E-04 | 1.08E-04 |
| 2588 | 257423.7 | 4085989 | 1.32E-03 | 2.01E-04 | 1.09E-04 |
| 2589 | 257401.3 | 4085981 | 1.34E-03 | 2.03E-04 | 1.10E-04 |
| 2590 | 257378.9 | 4085973 | 1.35E-03 | 2.06E-04 | 1.11E-04 |
| 2591 | 257356.5 | 4085965 | 1.36E-03 | 2.08E-04 | 1.13E-04 |
| 2592 | 257334.1 | 4085956 | 1.38E-03 | 2.10E-04 | 1.14E-04 |
| 2593 | 257311.7 | 4085948 | 1.39E-03 | 2.12E-04 | 1.15E-04 |
| 2594 | 257289.3 | 4085940 | 1.41E-03 | 2.15E-04 | 1.16E-04 |
| 2595 | 257266.9 | 4085932 | 1.42E-03 | 2.17E-04 | 1.17E-04 |
| 2596 | 257244.5 | 4085924 | 1.44E-03 | 2.19E-04 | 1.18E-04 |
| 2597 | 257222.1 | 4085916 | 1.45E-03 | 2.20E-04 | 1.19E-04 |
| 2598 | 257199.6 | 4085907 | 1.45E-03 | 2.21E-04 | 1.20E-04 |
| 2599 | 257177.2 | 4085899 | 1.46E-03 | 2.22E-04 | 1.20E-04 |
| 2600 | 257154.8 | 4085891 | 1.45E-03 | 2.22E-04 | 1.20E-04 |
| 2601 | 257132.4 | 4085883 | 1.45E-03 | 2.21E-04 | 1.19E-04 |
| 2602 | 257110 | 4085875 | 1.44E-03 | 2.20E-04 | 1.19E-04 |
| 2603 | 257087.6 | 4085866 | 1.44E-03 | 2.19E-04 | 1.18E-04 |
| 2604 | 257065.2 | 4085858 | 1.43E-03 | 2.17E-04 | 1.18E-04 |
| 2605 | 257042.8 | 4085850 | 1.42E-03 | 2.16E-04 | 1.17E-04 |
| 2606 | 257020.4 | 4085842 | 1.41E-03 | 2.15E-04 | 1.16E-04 |
| 2607 | 256998 | 4085834 | 1.40E-03 | 2.14E-04 | 1.16E-04 |
| 2608 | 256975.6 | 4085826 | 1.39E-03 | 2.12E-04 | 1.15E-04 |
| 2609 | 256943.2 | 4085796 | 1.40E-03 | 2.14E-04 | 1.16E-04 |
| 2610 | 256933.2 | 4085774 | 1.42E-03 | 2.16E-04 | 1.17E-04 |
| 2611 | 256923.2 | 4085752 | 1.44E-03 | 2.19E-04 | 1.18E-04 |
| 2612 | 256913.2 | 4085731 | 1.44E-03 | 2.20E-04 | 1.19E-04 |
| 2613 | 256903.3 | 4085709 | 1.45E-03 | 2.20E-04 | 1.19E-04 |
| 2614 | 256893.3 | 4085687 | 1.44E-03 | 2.19E-04 | 1.19E-04 |
| 2615 | 256883.3 | 4085666 | 1.42E-03 | 2.17E-04 | 1.17E-04 |
| 2616 | 256873.3 | 4085644 | 1.40E-03 | 2.14E-04 | 1.16E-04 |
| 2617 | 256863.4 | 4085622 | 1.37E-03 | 2.09E-04 | 1.13E-04 |
| 2618 | 256853.4 | 4085601 | 1.33E-03 | 2.02E-04 | 1.10E-04 |
| 2619 | 256843.4 | 4085579 | 1.28E-03 | 1.95E-04 | 1.06E-04 |
| 2620 | 256833.4 | 4085557 | 1.22E-03 | 1.87E-04 | 1.01E-04 |
| 2621 | 256823.4 | 4085536 | 1.16E-03 | 1.77E-04 | 9.58E-05 |
| 2622 | 256813.5 | 4085514 | 1.10E-03 | 1.67E-04 | 9.04E-05 |
| 2623 | 256803.5 | 4085492 | 1.03E-03 | 1.57E-04 | 8.47E-05 |
| 2624 | 256793.5 | 4085471 | 9.59E-04 | 1.46E-04 | 7.91E-05 |
| 2625 | 256783.5 | 4085449 | 8.93E-04 | 1.36E-04 | 7.36E-05 |

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| 2532 | 257010.4 | 4085500 | 1.74E-03 | 2.66E-04 | 1.44E-04 |
| 2533 | 257000.6 | 4085479 | 1.67E-03 | 2.55E-04 | 1.38E-04 |
| 2534 | 256990.9 | 4085458 | 1.59E-03 | 2.42E-04 | 1.31E-04 |
| 2535 | 256981.1 | 4085437 | 1.50E-03 | 2.29E-04 | 1.24E-04 |
| 2536 | 256971.3 | 4085415 | 1.40E-03 | 2.14E-04 | 1.16E-04 |
| 2537 | 256961.5 | 4085394 | 1.30E-03 | 1.99E-04 | 1.07E-04 |
| 2538 | 256951.7 | 4085373 | 1.21E-03 | 1.84E-04 | 9.95E-05 |
| 2539 | 256941.9 | 4085352 | 1.11E-03 | 1.70E-04 | 9.19E-05 |
| 2540 | 256932.1 | 4085330 | 1.03E-03 | 1.57E-04 | 8.50E-05 |
| 2541 | 256922.4 | 4085309 | 9.56E-04 | 1.46E-04 | 7.88E-05 |
| 2542 | 256912.6 | 4085288 | 8.93E-04 | 1.36E-04 | 7.36E-05 |
| 2543 | 256902.8 | 4085267 | 8.39E-04 | 1.28E-04 | 6.91E-05 |
| 2544 | 256893 | 4085245 | 7.94E-04 | 1.21E-04 | 6.54E-05 |
| 2545 | 256883.2 | 4085224 | 7.57E-04 | 1.15E-04 | 6.24E-05 |
| 2546 | 256873.4 | 4085203 | 7.25E-04 | 1.10E-04 | 5.98E-05 |
| 2547 | 257594.1 | 4085855 | 1.71E-03 | 2.60E-04 | 1.41E-04 |
| 2548 | 257618.4 | 4085854 | 1.71E-03 | 2.60E-04 | 1.41E-04 |
| 2549 | 257642.7 | 4085853 | 1.70E-03 | 2.59E-04 | 1.40E-04 |
| 2550 | 257667 | 4085852 | 1.69E-03 | 2.58E-04 | 1.40E-04 |
| 2551 | 257691.3 | 4085851 | 1.68E-03 | 2.57E-04 | 1.39E-04 |
| 2552 | 257715.5 | 4085850 | 1.67E-03 | 2.54E-04 | 1.38E-04 |
| 2553 | 257739.8 | 4085848 | 1.65E-03 | 2.52E-04 | 1.36E-04 |
| 2554 | 257764.1 | 4085847 | 1.62E-03 | 2.47E-04 | 1.34E-04 |
| 2555 | 257788.4 | 4085846 | 1.60E-03 | 2.44E-04 | 1.32E-04 |
| 2556 | 257812.7 | 4085845 | 1.57E-03 | 2.39E-04 | 1.30E-04 |
| 2557 | 257837 | 4085844 | 1.54E-03 | 2.35E-04 | 1.27E-04 |
| 2558 | 257861.2 | 4085843 | 1.51E-03 | 2.30E-04 | 1.25E-04 |
| 2559 | 257885.5 | 4085842 | 1.48E-03 | 2.26E-04 | 1.22E-04 |
| 2560 | 257909.8 | 4085841 | 1.45E-03 | 2.21E-04 | 1.19E-04 |
| 2561 | 257934.1 | 4085840 | 1.41E-03 | 2.15E-04 | 1.17E-04 |
| 2562 | 257958.4 | 4085839 | 1.38E-03 | 2.10E-04 | 1.14E-04 |
| 2563 | 257982.6 | 4085838 | 1.35E-03 | 2.05E-04 | 1.11E-04 |
| 2564 | 258006.9 | 4085837 | 1.31E-03 | 2.00E-04 | 1.08E-04 |
| 2565 | 258031.2 | 4085836 | 1.28E-03 | 1.95E-04 | 1.06E-04 |
| 2566 | 258055.5 | 4085834 | 1.25E-03 | 1.90E-04 | 1.03E-04 |
| 2567 | 258079.8 | 4085833 | 1.22E-03 | 1.85E-04 | 1.00E-04 |
| 2568 | 258104.1 | 4085832 | 1.18E-03 | 1.80E-04 | 9.76E-05 |
| 2569 | 258128.3 | 4085831 | 1.15E-03 | 1.75E-04 | 9.48E-05 |
| 2570 | 258152.6 | 4085830 | 1.12E-03 | 1.70E-04 | 9.20E-05 |
| 2571 | 258176.9 | 4085829 | 1.08E-03 | 1.65E-04 | 8.91E-05 |
| 2572 | 258201.2 | 4085828 | 1.05E-03 | 1.59E-04 | 8.62E-05 |
| 2573 | 258225.5 | 4085827 | 1.01E-03 | 1.54E-04 | 8.32E-05 |
| 2574 | 258249.7 | 4085826 | 9.73E-04 | 1.48E-04 | 8.02E-05 |
| 2575 | 258274 | 4085825 | 9.38E-04 | 1.43E-04 | 7.73E-05 |
| 2576 | 258298.3 | 4085824 | 9.03E-04 | 1.38E-04 | 7.44E-05 |
| 2577 | 258322.6 | 4085823 | 8.69E-04 | 1.32E-04 | 7.16E-05 |
| 2578 | 258346.9 | 4085822 | 8.36E-04 | 1.27E-04 | 6.89E-05 |

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| 2485 | 257978.2 | 4085738 | 1.76E-03 | 2.68E-04 | 1.45E-04 |
| 2486 | 258002.5 | 4085737 | 1.71E-03 | 2.60E-04 | 1.41E-04 |
| 2487 | 258026.8 | 4085736 | 1.66E-03 | 2.53E-04 | 1.37E-04 |
| 2488 | 258051.1 | 4085735 | 1.61E-03 | 2.45E-04 | 1.32E-04 |
| 2489 | 258075.3 | 4085734 | 1.56E-03 | 2.37E-04 | 1.28E-04 |
| 2490 | 258099.6 | 4085732 | 1.51E-03 | 2.30E-04 | 1.24E-04 |
| 2491 | 258123.9 | 4085731 | 1.46E-03 | 2.23E-04 | 1.20E-04 |
| 2492 | 258148.2 | 4085730 | 1.41E-03 | 2.15E-04 | 1.17E-04 |
| 2493 | 258172.5 | 4085729 | 1.37E-03 | 2.08E-04 | 1.13E-04 |
| 2494 | 258196.8 | 4085728 | 1.32E-03 | 2.01E-04 | 1.09E-04 |
| 2495 | 258221 | 4085727 | 1.27E-03 | 1.93E-04 | 1.04E-04 |
| 2496 | 258245.3 | 4085726 | 1.22E-03 | 1.85E-04 | 1.00E-04 |
| 2497 | 258269.6 | 4085725 | 1.17E-03 | 1.78E-04 | 9.61E-05 |
| 2498 | 258293.9 | 4085724 | 1.12E-03 | 1.70E-04 | 9.20E-05 |
| 2499 | 258318.2 | 4085723 | 1.07E-03 | 1.63E-04 | 8.80E-05 |
| 2500 | 258342.4 | 4085722 | 1.02E-03 | 1.56E-04 | 8.41E-05 |
| 2501 | 258366.7 | 4085721 | 9.75E-04 | 1.49E-04 | 8.04E-05 |
| 2502 | 258391 | 4085720 | 9.32E-04 | 1.42E-04 | 7.68E-05 |
| 2503 | 257572.2 | 4085847 | 1.74E-03 | 2.65E-04 | 1.43E-04 |
| 2504 | 257550.2 | 4085839 | 1.77E-03 | 2.70E-04 | 1.46E-04 |
| 2505 | 257528.2 | 4085831 | 1.80E-03 | 2.75E-04 | 1.49E-04 |
| 2506 | 257506.2 | 4085823 | 1.83E-03 | 2.79E-04 | 1.51E-04 |
| 2507 | 257484.3 | 4085815 | 1.86E-03 | 2.83E-04 | 1.53E-04 |
| 2508 | 257462.3 | 4085807 | 1.89E-03 | 2.87E-04 | 1.55E-04 |
| 2509 | 257440.3 | 4085799 | 1.91E-03 | 2.91E-04 | 1.57E-04 |
| 2510 | 257418.3 | 4085791 | 1.93E-03 | 2.94E-04 | 1.59E-04 |
| 2511 | 257396.4 | 4085783 | 1.95E-03 | 2.98E-04 | 1.61E-04 |
| 2512 | 257374.4 | 4085775 | 1.97E-03 | 3.01E-04 | 1.63E-04 |
| 2513 | 257352.4 | 4085767 | 1.99E-03 | 3.03E-04 | 1.64E-04 |
| 2514 | 257330.4 | 4085759 | 2.01E-03 | 3.06E-04 | 1.65E-04 |
| 2515 | 257308.5 | 4085751 | 2.02E-03 | 3.08E-04 | 1.66E-04 |
| 2516 | 257286.5 | 4085743 | 2.02E-03 | 3.08E-04 | 1.67E-04 |
| 2517 | 257264.5 | 4085735 | 2.02E-03 | 3.08E-04 | 1.67E-04 |
| 2518 | 257242.5 | 4085726 | 2.01E-03 | 3.07E-04 | 1.66E-04 |
| 2519 | 257220.6 | 4085718 | 2.00E-03 | 3.05E-04 | 1.65E-04 |
| 2520 | 257198.6 | 4085710 | 1.98E-03 | 3.02E-04 | 1.64E-04 |
| 2521 | 257176.6 | 4085702 | 1.96E-03 | 2.99E-04 | 1.62E-04 |
| 2522 | 257154.6 | 4085694 | 1.94E-03 | 2.95E-04 | 1.60E-04 |
| 2523 | 257132.7 | 4085686 | 1.91E-03 | 2.91E-04 | 1.58E-04 |
| 2524 | 257110.7 | 4085678 | 1.88E-03 | 2.87E-04 | 1.55E-04 |
| 2525 | 257078.9 | 4085649 | 1.87E-03 | 2.86E-04 | 1.55E-04 |
| 2526 | 257069.1 | 4085628 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 2527 | 257059.4 | 4085607 | 1.89E-03 | 2.89E-04 | 1.56E-04 |
| 2528 | 257049.6 | 4085585 | 1.89E-03 | 2.88E-04 | 1.56E-04 |
| 2529 | 257039.8 | 4085564 | 1.87E-03 | 2.85E-04 | 1.54E-04 |
| 2530 | 257030 | 4085543 | 1.84E-03 | 2.81E-04 | 1.52E-04 |
| 2531 | 257020.2 | 4085522 | 1.80E-03 | 2.74E-04 | 1.48E-04 |

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| 1074 | 258745 | 4084475 | 0.002629539 | 4.01E-04 | 2.17E-04 |
| 1075 | 258777.8 | 4084505 | 0.002718895 | 4.14E-04 | 2.24E-04 |
| 1076 | 258787.9 | 4084528 | 0.002798026 | 4.26E-04 | 2.31E-04 |
| 1077 | 258797.9 | 4084550 | 0.002859967 | 4.36E-04 | 2.36E-04 |
| 1078 | 258807.9 | 4084572 | 0.002902496 | 4.42E-04 | 2.39E-04 |
| 1079 | 258818 | 4084594 | 0.002923538 | 4.45E-04 | 2.41E-04 |
| 1080 | 258828 | 4084616 | 0.002921464 | 4.45E-04 | 2.41E-04 |
| 1081 | 258838 | 4084638 | 0.002895531 | 4.41E-04 | 2.39E-04 |
| 1082 | 258848.1 | 4084661 | 0.002845741 | 4.34E-04 | 2.35E-04 |
| 1083 | 258858.1 | 4084683 | 0.002773279 | 4.22E-04 | 2.29E-04 |
| 1084 | 258868.1 | 4084705 | 0.002680367 | 4.08E-04 | 2.21E-04 |
| 1085 | 258878.2 | 4084727 | 0.002570265 | 3.92E-04 | 2.12E-04 |
| 1086 | 258888.2 | 4084749 | 0.00244668 | 3.73E-04 | 2.02E-04 |
| 1087 | 258898.2 | 4084771 | 0.002313461 | 3.52E-04 | 1.91E-04 |
| 1088 | 258908.3 | 4084794 | 0.002174909 | 3.31E-04 | 1.79E-04 |
| 1089 | 258918.3 | 4084816 | 0.002035911 | 3.10E-04 | 1.68E-04 |
| 1090 | 258928.3 | 4084838 | 0.001899581 | 2.89E-04 | 1.57E-04 |
| 1091 | 258938.4 | 4084860 | 0.001768289 | 2.69E-04 | 1.46E-04 |
| 1092 | 258948.4 | 4084882 | 0.001643073 | 2.50E-04 | 1.35E-04 |
| 1093 | 258334 | 4084323 | 0.00126698 | 1.93E-04 | 1.04E-04 |
| 1094 | 258309.7 | 4084324 | 0.001220598 | 1.86E-04 | 1.01E-04 |
| 1095 | 258285.4 | 4084325 | 0.001173179 | 1.79E-04 | 9.67E-05 |
| 1096 | 258261 | 4084326 | 0.001125019 | 1.71E-04 | 9.27E-05 |
| 1097 | 258236.7 | 4084327 | 0.001076118 | 1.64E-04 | 8.87E-05 |
| 1098 | 258212.4 | 4084328 | 0.001026773 | 1.56E-04 | 8.46E-05 |
| 1099 | 258188 | 4084329 | 0.000977427 | 1.49E-04 | 8.06E-05 |
| 1100 | 258163.7 | 4084330 | 0.000928674 | 1.41E-04 | 7.66E-05 |
| 1101 | 258139.4 | 4084331 | 0.000880662 | 1.34E-04 | 7.26E-05 |
| 1102 | 258115.1 | 4084332 | 0.000833984 | 1.27E-04 | 6.87E-05 |
| 1103 | 258090.7 | 4084333 | 0.000788936 | 1.20E-04 | 6.50E-05 |
| 1104 | 258066.4 | 4084334 | 0.000745814 | 1.14E-04 | 6.15E-05 |
| 1105 | 258042.1 | 4084335 | 0.000704915 | 1.07E-04 | 5.81E-05 |
| 1106 | 258017.7 | 4084336 | 0.000666387 | 1.02E-04 | 5.49E-05 |
| 1107 | 257993.4 | 4084337 | 0.00063023 | 9.60E-05 | 5.19E-05 |
| 1108 | 257969.1 | 4084338 | 0.000596444 | 9.09E-05 | 4.92E-05 |
| 1109 | 257944.7 | 4084339 | 0.000564881 | 8.61E-05 | 4.66E-05 |
| 1110 | 257920.4 | 4084340 | 0.00053554 | 8.16E-05 | 4.41E-05 |
| 1111 | 257896.1 | 4084341 | 0.000508274 | 7.74E-05 | 4.19E-05 |
| 1112 | 257871.7 | 4084342 | 0.000482934 | 7.36E-05 | 3.98E-05 |
| 1113 | 257847.4 | 4084343 | 0.000459225 | 7.00E-05 | 3.79E-05 |
| 1114 | 257823.1 | 4084344 | 0.000437293 | 6.66E-05 | 3.60E-05 |
| 1115 | 257798.7 | 4084345 | 0.000416992 | 6.35E-05 | 3.44E-05 |
| 1116 | 257774.4 | 4084346 | 0.000398024 | 6.06E-05 | 3.28E-05 |
| 1117 | 257750.1 | 4084347 | 0.000380687 | 5.80E-05 | 3.14E-05 |
| 1118 | 257725.7 | 4084348 | 0.000364683 | 5.56E-05 | 3.01E-05 |
| 1119 | 257701.4 | 4084349 | 0.000350161 | 5.33E-05 | 2.89E-05 |
| 1120 | 257677.1 | 4084350 | 0.000336824 | 5.13E-05 | 2.78E-05 |

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| 1121 | 257652.7 | 4084351 | 0.000324525 | 4.94E-05 | 2.68E-05 |
| 1122 | 257628.4 | 4084352 | 0.000313411 | 4.77E-05 | 2.58E-05 |
| 1123 | 257604.1 | 4084353 | 0.000303186 | 4.62E-05 | 2.50E-05 |
| 1124 | 257579.8 | 4084354 | 0.000293702 | 4.47E-05 | 2.42E-05 |
| 1125 | 257555.4 | 4084355 | 0.000284811 | 4.34E-05 | 2.35E-05 |
| 1126 | 257531.1 | 4084356 | 0.000276661 | 4.21E-05 | 2.28E-05 |
| 1127 | 258351.9 | 4084231 | 0.000920672 | 1.40E-04 | 7.59E-05 |
| 1128 | 258373.9 | 4084239 | 0.00098454 | 1.50E-04 | 8.12E-05 |
| 1129 | 258395.9 | 4084247 | 0.001050927 | 1.60E-04 | 8.66E-05 |
| 1130 | 258417.9 | 4084255 | 0.001119536 | 1.71E-04 | 9.23E-05 |
| 1131 | 258439.9 | 4084263 | 0.001189924 | 1.81E-04 | 9.81E-05 |
| 1132 | 258461.9 | 4084272 | 0.001261645 | 1.92E-04 | 1.04E-04 |
| 1133 | 258483.9 | 4084280 | 0.00133396 | 2.03E-04 | 1.10E-04 |
| 1134 | 258505.9 | 4084288 | 0.001406867 | 2.14E-04 | 1.16E-04 |
| 1135 | 258527.9 | 4084296 | 0.001479477 | 2.25E-04 | 1.22E-04 |
| 1136 | 258549.9 | 4084304 | 0.001551643 | 2.36E-04 | 1.28E-04 |
| 1137 | 258571.9 | 4084312 | 0.001622327 | 2.47E-04 | 1.34E-04 |
| 1138 | 258594 | 4084320 | 0.00169153 | 2.58E-04 | 1.39E-04 |
| 1139 | 258616 | 4084329 | 0.001758065 | 2.68E-04 | 1.45E-04 |
| 1140 | 258638 | 4084337 | 0.001821488 | 2.77E-04 | 1.50E-04 |
| 1141 | 258660 | 4084345 | 0.001881354 | 2.87E-04 | 1.55E-04 |
| 1142 | 258682 | 4084353 | 0.001936776 | 2.95E-04 | 1.60E-04 |
| 1143 | 258704 | 4084361 | 0.001986862 | 3.03E-04 | 1.64E-04 |
| 1144 | 258726 | 4084369 | 0.002030873 | 3.09E-04 | 1.67E-04 |
| 1145 | 258748 | 4084377 | 0.002067475 | 3.15E-04 | 1.70E-04 |
| 1146 | 258770 | 4084386 | 0.002095926 | 3.19E-04 | 1.73E-04 |
| 1147 | 258792 | 4084394 | 0.002115486 | 3.22E-04 | 1.74E-04 |
| 1148 | 258814 | 4084402 | 0.002121117 | 3.23E-04 | 1.75E-04 |
| 1149 | 258845.6 | 4084431 | 0.002190023 | 3.34E-04 | 1.81E-04 |
| 1150 | 258855.3 | 4084453 | 0.00224989 | 3.43E-04 | 1.85E-04 |
| 1151 | 258865 | 4084474 | 0.002298939 | 3.50E-04 | 1.90E-04 |
| 1152 | 258874.6 | 4084496 | 0.002336282 | 3.56E-04 | 1.93E-04 |
| 1153 | 258884.3 | 4084517 | 0.002360732 | 3.60E-04 | 1.95E-04 |
| 1154 | 258894 | 4084538 | 0.00237155 | 3.61E-04 | 1.95E-04 |
| 1155 | 258903.7 | 4084560 | 0.00236829 | 3.61E-04 | 1.95E-04 |
| 1156 | 258913.3 | 4084581 | 0.002350804 | 3.58E-04 | 1.94E-04 |
| 1157 | 258923 | 4084602 | 0.002319092 | 3.53E-04 | 1.91E-04 |
| 1158 | 258932.7 | 4084624 | 0.0022736 | 3.46E-04 | 1.87E-04 |
| 1159 | 258942.3 | 4084645 | 0.002215511 | 3.38E-04 | 1.83E-04 |
| 1160 | 258952 | 4084667 | 0.002146161 | 3.27E-04 | 1.77E-04 |
| 1161 | 258961.7 | 4084688 | 0.002067326 | 3.15E-04 | 1.70E-04 |
| 1162 | 258971.4 | 4084709 | 0.001980935 | 3.02E-04 | 1.63E-04 |
| 1163 | 258981 | 4084731 | 0.001888764 | 2.88E-04 | 1.56E-04 |
| 1164 | 258990.7 | 4084752 | 0.001793036 | 2.73E-04 | 1.48E-04 |
| 1165 | 259000.4 | 4084773 | 0.001696123 | 2.58E-04 | 1.40E-04 |
| 1166 | 259010 | 4084795 | 0.0016001 | 2.44E-04 | 1.32E-04 |
| 1167 | 259019.7 | 4084816 | 0.001506743 | 2.30E-04 | 1.24E-04 |

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| 1168 | 259029.4 | 4084838 | 0.001416943 | 2.16E-04 | 1.17E-04 |
| 1169 | 259039 | 4084859 | 0.001331144 | 2.03E-04 | 1.10E-04 |
| 1170 | 259048.7 | 4084880 | 0.001249791 | 1.90E-04 | 1.03E-04 |
| 1171 | 258329.9 | 4084223 | 0.00085962 | 1.31E-04 | 7.09E-05 |
| 1172 | 258305.6 | 4084224 | 0.000825093 | 1.26E-04 | 6.80E-05 |
| 1173 | 258281.3 | 4084225 | 0.000790714 | 1.20E-04 | 6.52E-05 |
| 1174 | 258256.9 | 4084226 | 0.000756632 | 1.15E-04 | 6.24E-05 |
| 1175 | 258232.6 | 4084227 | 0.000722846 | 1.10E-04 | 5.96E-05 |
| 1176 | 258208.3 | 4084228 | 0.000689504 | 1.05E-04 | 5.68E-05 |
| 1177 | 258183.9 | 4084229 | 0.000656755 | 1.00E-04 | 5.41E-05 |
| 1178 | 258159.6 | 4084230 | 0.000624895 | 9.52E-05 | 5.15E-05 |
| 1179 | 258135.3 | 4084231 | 0.000594073 | 9.05E-05 | 4.90E-05 |
| 1180 | 258110.9 | 4084232 | 0.000564584 | 8.60E-05 | 4.65E-05 |
| 1181 | 258086.6 | 4084233 | 0.000536725 | 8.18E-05 | 4.42E-05 |
| 1182 | 258062.3 | 4084234 | 0.0005102 | 7.77E-05 | 4.21E-05 |
| 1183 | 258037.9 | 4084235 | 0.000485305 | 7.39E-05 | 4.00E-05 |
| 1184 | 258013.6 | 4084236 | 0.000461892 | 7.04E-05 | 3.81E-05 |
| 1185 | 257989.3 | 4084237 | 0.000440109 | 6.70E-05 | 3.63E-05 |
| 1186 | 257965 | 4084238 | 0.000419808 | 6.40E-05 | 3.46E-05 |
| 1187 | 257940.6 | 4084239 | 0.00040084 | 6.11E-05 | 3.30E-05 |
| 1188 | 257916.3 | 4084240 | 0.000383206 | 5.84E-05 | 3.16E-05 |
| 1189 | 257892 | 4084241 | 0.000366906 | 5.59E-05 | 3.02E-05 |
| 1190 | 257867.6 | 4084242 | 0.000351791 | 5.36E-05 | 2.90E-05 |
| 1191 | 257843.3 | 4084243 | 0.000337861 | 5.15E-05 | 2.78E-05 |
| 1192 | 257819 | 4084244 | 0.000325118 | 4.95E-05 | 2.68E-05 |
| 1193 | 257794.6 | 4084245 | 0.000313115 | 4.77E-05 | 2.58E-05 |
| 1194 | 257770.3 | 4084246 | 0.000302001 | 4.60E-05 | 2.49E-05 |
| 1195 | 257746 | 4084247 | 0.000291628 | 4.44E-05 | 2.40E-05 |
| 1196 | 257721.6 | 4084248 | 0.000281848 | 4.29E-05 | 2.32E-05 |
| 1197 | 257697.3 | 4084249 | 0.00027266 | 4.15E-05 | 2.25E-05 |
| 1198 | 257673 | 4084250 | 0.000264214 | 4.03E-05 | 2.18E-05 |
| 1199 | 257648.6 | 4084251 | 0.000256063 | 3.90E-05 | 2.11E-05 |
| 1200 | 257624.3 | 4084252 | 0.000248506 | 3.79E-05 | 2.05E-05 |
| 1201 | 257600 | 4084253 | 0.000241245 | 3.68E-05 | 1.99E-05 |
| 1202 | 257575.6 | 4084254 | 0.000234428 | 3.57E-05 | 1.93E-05 |
| 1203 | 257551.3 | 4084255 | 0.000228056 | 3.47E-05 | 1.88E-05 |
| 1204 | 257527 | 4084256 | 0.000221981 | 3.38E-05 | 1.83E-05 |
| 1205 | 258344.2 | 4084031 | 0.000470487 | 7.17E-05 | 3.88E-05 |
| 1206 | 258366.6 | 4084039 | 0.000501013 | 7.63E-05 | 4.13E-05 |
| 1207 | 258389 | 4084048 | 0.000533762 | 8.13E-05 | 4.40E-05 |
| 1208 | 258411.5 | 4084056 | 0.000568585 | 8.66E-05 | 4.69E-05 |
| 1209 | 258433.9 | 4084064 | 0.000605483 | 9.22E-05 | 4.99E-05 |
| 1210 | 258456.3 | 4084073 | 0.000644308 | 9.82E-05 | 5.31E-05 |
| 1211 | 258478.8 | 4084081 | 0.00068491 | 1.04E-04 | 5.65E-05 |
| 1212 | 258501.2 | 4084089 | 0.000727143 | 1.11E-04 | 5.99E-05 |
| 1213 | 258523.6 | 4084098 | 0.000770857 | 1.17E-04 | 6.35E-05 |
| 1214 | 258546.1 | 4084106 | 0.000815757 | 1.24E-04 | 6.72E-05 |

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| 1215 | 258568.5 | 4084114 | 0.000861547 | 1.31E-04 | 7.10E-05 |
| 1216 | 258590.9 | 4084123 | 0.000908077 | 1.38E-04 | 7.49E-05 |
| 1217 | 258613.4 | 4084131 | 0.000954903 | 1.45E-04 | 7.87E-05 |
| 1218 | 258635.8 | 4084139 | 0.001001878 | 1.53E-04 | 8.26E-05 |
| 1219 | 258658.2 | 4084147 | 0.001048556 | 1.60E-04 | 8.64E-05 |
| 1220 | 258680.7 | 4084156 | 0.001094641 | 1.67E-04 | 9.02E-05 |
| 1221 | 258703.1 | 4084164 | 0.001139838 | 1.74E-04 | 9.40E-05 |
| 1222 | 258725.5 | 4084172 | 0.001183848 | 1.80E-04 | 9.76E-05 |
| 1223 | 258748 | 4084181 | 0.001226378 | 1.87E-04 | 1.01E-04 |
| 1224 | 258770.4 | 4084189 | 0.001266832 | 1.93E-04 | 1.04E-04 |
| 1225 | 258792.9 | 4084197 | 0.001305212 | 1.99E-04 | 1.08E-04 |
| 1226 | 258815.3 | 4084206 | 0.001340924 | 2.04E-04 | 1.11E-04 |
| 1227 | 258837.7 | 4084214 | 0.001373525 | 2.09E-04 | 1.13E-04 |
| 1228 | 258860.2 | 4084222 | 0.001402273 | 2.14E-04 | 1.16E-04 |
| 1229 | 258882.6 | 4084230 | 0.001426279 | 2.17E-04 | 1.18E-04 |
| 1230 | 258905 | 4084239 | 0.001447469 | 2.21E-04 | 1.19E-04 |
| 1231 | 258927.5 | 4084247 | 0.001463029 | 2.23E-04 | 1.21E-04 |
| 1232 | 258949.9 | 4084255 | 0.00147355 | 2.24E-04 | 1.21E-04 |
| 1233 | 258982.2 | 4084286 | 0.001523784 | 2.32E-04 | 1.26E-04 |
| 1234 | 258992.1 | 4084307 | 0.001563794 | 2.38E-04 | 1.29E-04 |
| 1235 | 259001.9 | 4084329 | 0.001597136 | 2.43E-04 | 1.32E-04 |
| 1236 | 259011.8 | 4084351 | 0.001625291 | 2.48E-04 | 1.34E-04 |
| 1237 | 259021.6 | 4084373 | 0.001647222 | 2.51E-04 | 1.36E-04 |
| 1238 | 259031.5 | 4084394 | 0.001661893 | 2.53E-04 | 1.37E-04 |
| 1239 | 259041.4 | 4084416 | 0.00166945 | 2.54E-04 | 1.38E-04 |
| 1240 | 259051.2 | 4084438 | 0.001669302 | 2.54E-04 | 1.38E-04 |
| 1241 | 259061.1 | 4084460 | 0.001661596 | 2.53E-04 | 1.37E-04 |
| 1242 | 259070.9 | 4084482 | 0.001646926 | 2.51E-04 | 1.36E-04 |
| 1243 | 259080.8 | 4084503 | 0.001625439 | 2.48E-04 | 1.34E-04 |
| 1244 | 259090.7 | 4084525 | 0.001597432 | 2.43E-04 | 1.32E-04 |
| 1245 | 259100.5 | 4084547 | 0.001563646 | 2.38E-04 | 1.29E-04 |
| 1246 | 259110.4 | 4084569 | 0.001524525 | 2.32E-04 | 1.26E-04 |
| 1247 | 259120.2 | 4084591 | 0.001481107 | 2.26E-04 | 1.22E-04 |
| 1248 | 259130.1 | 4084612 | 0.001433984 | 2.18E-04 | 1.18E-04 |
| 1249 | 259140 | 4084634 | 0.001383898 | 2.11E-04 | 1.14E-04 |
| 1250 | 259149.8 | 4084656 | 0.001331589 | 2.03E-04 | 1.10E-04 |
| 1251 | 259159.7 | 4084678 | 0.001279724 | 1.95E-04 | 1.05E-04 |
| 1252 | 259169.6 | 4084700 | 0.001224748 | 1.87E-04 | 1.01E-04 |
| 1253 | 259179.4 | 4084721 | 0.001166511 | 1.78E-04 | 9.62E-05 |
| 1254 | 259189.3 | 4084743 | 0.001110645 | 1.69E-04 | 9.16E-05 |
| 1255 | 259199.1 | 4084765 | 0.001056854 | 1.61E-04 | 8.71E-05 |
| 1256 | 259209 | 4084787 | 0.001001285 | 1.53E-04 | 8.25E-05 |
| 1257 | 259218.9 | 4084809 | 0.000950606 | 1.45E-04 | 7.84E-05 |
| 1258 | 259228.7 | 4084830 | 0.000903186 | 1.38E-04 | 7.44E-05 |
| 1259 | 259238.6 | 4084852 | 0.000858583 | 1.31E-04 | 7.08E-05 |
| 1260 | 259248.4 | 4084874 | 0.000816498 | 1.24E-04 | 6.73E-05 |
| 1261 | 258321.7 | 4084023 | 0.000442035 | 6.73E-05 | 3.64E-05 |

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| 1262 | 258297.4 | 4084024 | 0.000425142 | 6.48E-05 | 3.50E-05 |
| 1263 | 258273.1 | 4084025 | 0.000409138 | 6.23E-05 | 3.37E-05 |
| 1264 | 258248.7 | 4084026 | 0.000393579 | 6.00E-05 | 3.24E-05 |
| 1265 | 258224.4 | 4084027 | 0.000378612 | 5.77E-05 | 3.12E-05 |
| 1266 | 258200.1 | 4084028 | 0.00036409 | 5.55E-05 | 3.00E-05 |
| 1267 | 258175.7 | 4084029 | 0.000350161 | 5.33E-05 | 2.89E-05 |
| 1268 | 258151.4 | 4084030 | 0.000336528 | 5.13E-05 | 2.77E-05 |
| 1269 | 258127.1 | 4084031 | 0.000323487 | 4.93E-05 | 2.67E-05 |
| 1270 | 258102.7 | 4084032 | 0.000310892 | 4.74E-05 | 2.56E-05 |
| 1271 | 258078.4 | 4084033 | 0.000298741 | 4.55E-05 | 2.46E-05 |
| 1272 | 258054.1 | 4084034 | 0.000287034 | 4.37E-05 | 2.37E-05 |
| 1273 | 258029.7 | 4084035 | 0.00027592 | 4.20E-05 | 2.27E-05 |
| 1274 | 258005.4 | 4084036 | 0.000265399 | 4.04E-05 | 2.19E-05 |
| 1275 | 257981.1 | 4084037 | 0.000255619 | 3.89E-05 | 2.11E-05 |
| 1276 | 257956.7 | 4084038 | 0.000246283 | 3.75E-05 | 2.03E-05 |
| 1277 | 257932.4 | 4084039 | 0.000237688 | 3.62E-05 | 1.96E-05 |
| 1278 | 257908.1 | 4084040 | 0.000229835 | 3.50E-05 | 1.89E-05 |
| 1279 | 257883.7 | 4084041 | 0.000222574 | 3.39E-05 | 1.83E-05 |
| 1280 | 257859.4 | 4084042 | 0.000215905 | 3.29E-05 | 1.78E-05 |
| 1281 | 257835.1 | 4084043 | 0.00020983 | 3.20E-05 | 1.73E-05 |
| 1282 | 257810.7 | 4084044 | 0.000204199 | 3.11E-05 | 1.68E-05 |
| 1283 | 257786.4 | 4084045 | 0.00019916 | 3.03E-05 | 1.64E-05 |
| 1284 | 257762.1 | 4084046 | 0.000194567 | 2.96E-05 | 1.60E-05 |
| 1285 | 257737.8 | 4084047 | 0.000190418 | 2.90E-05 | 1.57E-05 |
| 1286 | 257713.4 | 4084048 | 0.000186417 | 2.84E-05 | 1.54E-05 |
| 1287 | 257689.1 | 4084049 | 0.00018286 | 2.79E-05 | 1.51E-05 |
| 1288 | 257664.8 | 4084050 | 0.000179304 | 2.73E-05 | 1.48E-05 |
| 1289 | 257640.4 | 4084051 | 0.000175895 | 2.68E-05 | 1.45E-05 |
| 1290 | 257616.1 | 4084052 | 0.000172487 | 2.63E-05 | 1.42E-05 |
| 1291 | 257591.8 | 4084053 | 0.000169079 | 2.58E-05 | 1.39E-05 |
| 1292 | 257567.4 | 4084054 | 0.000165522 | 2.52E-05 | 1.36E-05 |
| 1293 | 257543.1 | 4084055 | 0.000161966 | 2.47E-05 | 1.34E-05 |
| 1294 | 257518.8 | 4084056 | 0.00015841 | 2.41E-05 | 1.31E-05 |
| 1295 | 258336.2 | 4083831 | 0.000279625 | 4.26E-05 | 2.30E-05 |
| 1296 | 258358.9 | 4083840 | 0.000294147 | 4.48E-05 | 2.42E-05 |
| 1297 | 258381.7 | 4083848 | 0.000309855 | 4.72E-05 | 2.55E-05 |
| 1298 | 258404.4 | 4083857 | 0.000326896 | 4.98E-05 | 2.69E-05 |
| 1299 | 258427.1 | 4083865 | 0.000345271 | 5.26E-05 | 2.85E-05 |
| 1300 | 258449.8 | 4083873 | 0.000365127 | 5.56E-05 | 3.01E-05 |
| 1301 | 258472.5 | 4083882 | 0.000386466 | 5.89E-05 | 3.19E-05 |
| 1302 | 258495.3 | 4083890 | 0.00040899 | 6.23E-05 | 3.37E-05 |
| 1303 | 258518 | 4083899 | 0.000432848 | 6.59E-05 | 3.57E-05 |
| 1304 | 258540.7 | 4083907 | 0.000457891 | 6.98E-05 | 3.77E-05 |
| 1305 | 258563.4 | 4083916 | 0.000484268 | 7.38E-05 | 3.99E-05 |
| 1306 | 258586.1 | 4083924 | 0.000511682 | 7.80E-05 | 4.22E-05 |
| 1307 | 258608.9 | 4083932 | 0.000540134 | 8.23E-05 | 4.45E-05 |
| 1308 | 258631.6 | 4083941 | 0.000569622 | 8.68E-05 | 4.70E-05 |

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| 1309 | 258654.3 | 4083949 | 0.000599852 | 9.14E-05 | 4.94E-05 |
| 1310 | 258677 | 4083958 | 0.000630823 | 9.61E-05 | 5.20E-05 |
| 1311 | 258699.7 | 4083966 | 0.000662386 | 1.01E-04 | 5.46E-05 |
| 1312 | 258722.5 | 4083974 | 0.000694246 | 1.06E-04 | 5.72E-05 |
| 1313 | 258745.2 | 4083983 | 0.000726402 | 1.11E-04 | 5.99E-05 |
| 1314 | 258767.9 | 4083991 | 0.00075841 | 1.16E-04 | 6.25E-05 |
| 1315 | 258790.6 | 4084000 | 0.00079027 | 1.20E-04 | 6.51E-05 |
| 1316 | 258813.3 | 4084008 | 0.000821685 | 1.25E-04 | 6.77E-05 |
| 1317 | 258836.1 | 4084016 | 0.000852507 | 1.30E-04 | 7.03E-05 |
| 1318 | 258858.8 | 4084025 | 0.000882737 | 1.34E-04 | 7.28E-05 |
| 1319 | 258881.5 | 4084033 | 0.000911929 | 1.39E-04 | 7.52E-05 |
| 1320 | 258904.2 | 4084042 | 0.000939788 | 1.43E-04 | 7.75E-05 |
| 1321 | 258926.9 | 4084050 | 0.000966017 | 1.47E-04 | 7.96E-05 |
| 1322 | 258949.7 | 4084059 | 0.000988245 | 1.51E-04 | 8.15E-05 |
| 1323 | 258972.4 | 4084067 | 0.001010324 | 1.54E-04 | 8.33E-05 |
| 1324 | 258995.1 | 4084075 | 0.001030477 | 1.57E-04 | 8.49E-05 |
| 1325 | 259017.8 | 4084084 | 0.001048408 | 1.60E-04 | 8.64E-05 |
| 1326 | 259040.5 | 4084092 | 0.001063671 | 1.62E-04 | 8.77E-05 |
| 1327 | 259063.3 | 4084101 | 0.00107597 | 1.64E-04 | 8.87E-05 |
| 1328 | 259086 | 4084109 | 0.001085454 | 1.65E-04 | 8.95E-05 |
| 1329 | 259118.7 | 4084139 | 0.001123834 | 1.71E-04 | 9.26E-05 |
| 1330 | 259128.7 | 4084162 | 0.001153322 | 1.76E-04 | 9.51E-05 |
| 1331 | 259138.7 | 4084184 | 0.001179699 | 1.80E-04 | 9.72E-05 |
| 1332 | 259148.6 | 4084206 | 0.001202816 | 1.83E-04 | 9.91E-05 |
| 1333 | 259158.6 | 4084228 | 0.00122208 | 1.86E-04 | 1.01E-04 |
| 1334 | 259168.6 | 4084250 | 0.001237195 | 1.88E-04 | 1.02E-04 |
| 1335 | 259178.6 | 4084272 | 0.001247864 | 1.90E-04 | 1.03E-04 |
| 1336 | 259188.6 | 4084294 | 0.001254088 | 1.91E-04 | 1.03E-04 |
| 1337 | 259198.6 | 4084316 | 0.00125557 | 1.91E-04 | 1.03E-04 |
| 1338 | 259208.6 | 4084338 | 0.001252458 | 1.91E-04 | 1.03E-04 |
| 1339 | 259218.5 | 4084360 | 0.001245197 | 1.90E-04 | 1.03E-04 |
| 1340 | 259228.5 | 4084382 | 0.001233639 | 1.88E-04 | 1.02E-04 |
| 1341 | 259238.5 | 4084404 | 0.001218079 | 1.86E-04 | 1.00E-04 |
| 1342 | 259248.5 | 4084426 | 0.001203853 | 1.83E-04 | 9.92E-05 |
| 1343 | 259258.5 | 4084449 | 0.001181922 | 1.80E-04 | 9.74E-05 |
| 1344 | 259268.5 | 4084471 | 0.001157323 | 1.76E-04 | 9.54E-05 |
| 1345 | 259278.5 | 4084493 | 0.00113065 | 1.72E-04 | 9.32E-05 |
| 1346 | 259288.5 | 4084515 | 0.001102347 | 1.68E-04 | 9.09E-05 |
| 1347 | 259298.4 | 4084537 | 0.001072858 | 1.63E-04 | 8.84E-05 |
| 1348 | 259308.4 | 4084559 | 0.001042184 | 1.59E-04 | 8.59E-05 |
| 1349 | 259318.4 | 4084581 | 0.001010472 | 1.54E-04 | 8.33E-05 |
| 1350 | 259328.4 | 4084603 | 0.000977575 | 1.49E-04 | 8.06E-05 |
| 1351 | 259338.4 | 4084625 | 0.000943345 | 1.44E-04 | 7.78E-05 |
| 1352 | 259348.4 | 4084647 | 0.000908077 | 1.38E-04 | 7.49E-05 |
| 1353 | 259358.4 | 4084669 | 0.000871771 | 1.33E-04 | 7.19E-05 |
| 1354 | 259368.3 | 4084691 | 0.00083517 | 1.27E-04 | 6.88E-05 |
| 1355 | 259378.3 | 4084713 | 0.000799161 | 1.22E-04 | 6.59E-05 |

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| 1356 | 259388.3 | 4084735 | 0.000764337 | 1.16E-04 | 6.30E-05 |
| 1357 | 259398.3 | 4084758 | 0.000731292 | 1.11E-04 | 6.03E-05 |
| 1358 | 259408.3 | 4084780 | 0.00070047 | 1.07E-04 | 5.77E-05 |
| 1359 | 259418.3 | 4084802 | 0.00067187 | 1.02E-04 | 5.54E-05 |
| 1360 | 259428.3 | 4084824 | 0.0006449 | 9.82E-05 | 5.32E-05 |
| 1361 | 259438.2 | 4084846 | 0.000619264 | 9.43E-05 | 5.10E-05 |
| 1362 | 259448.2 | 4084868 | 0.000594369 | 9.05E-05 | 4.90E-05 |
| 1363 | 258313.5 | 4083823 | 0.000266436 | 4.06E-05 | 2.20E-05 |
| 1364 | 258289.2 | 4083824 | 0.000258583 | 3.94E-05 | 2.13E-05 |
| 1365 | 258264.8 | 4083825 | 0.000251025 | 3.82E-05 | 2.07E-05 |
| 1366 | 258240.5 | 4083826 | 0.000243764 | 3.71E-05 | 2.01E-05 |
| 1367 | 258216.2 | 4083827 | 0.000236651 | 3.61E-05 | 1.95E-05 |
| 1368 | 258191.8 | 4083828 | 0.000229538 | 3.50E-05 | 1.89E-05 |
| 1369 | 258167.5 | 4083829 | 0.000222722 | 3.39E-05 | 1.84E-05 |
| 1370 | 258143.2 | 4083830 | 0.000215905 | 3.29E-05 | 1.78E-05 |
| 1371 | 258118.8 | 4083831 | 0.000209237 | 3.19E-05 | 1.72E-05 |
| 1372 | 258094.5 | 4083832 | 0.000202569 | 3.09E-05 | 1.67E-05 |
| 1373 | 258070.2 | 4083833 | 0.000196197 | 2.99E-05 | 1.62E-05 |
| 1374 | 258045.9 | 4083834 | 0.000190121 | 2.90E-05 | 1.57E-05 |
| 1375 | 258021.5 | 4083835 | 0.000184194 | 2.81E-05 | 1.52E-05 |
| 1376 | 257997.2 | 4083836 | 0.000178563 | 2.72E-05 | 1.47E-05 |
| 1377 | 257972.9 | 4083837 | 0.00017308 | 2.64E-05 | 1.43E-05 |
| 1378 | 257948.5 | 4083838 | 0.00016819 | 2.56E-05 | 1.39E-05 |
| 1379 | 257924.2 | 4083839 | 0.000163448 | 2.49E-05 | 1.35E-05 |
| 1380 | 257899.9 | 4083840 | 0.000159151 | 2.42E-05 | 1.31E-05 |
| 1381 | 257875.5 | 4083841 | 0.000155001 | 2.36E-05 | 1.28E-05 |
| 1382 | 257851.2 | 4083842 | 0.000151297 | 2.30E-05 | 1.25E-05 |
| 1383 | 257826.9 | 4083843 | 0.000147888 | 2.25E-05 | 1.22E-05 |
| 1384 | 257802.5 | 4083844 | 0.000144777 | 2.21E-05 | 1.19E-05 |
| 1385 | 257778.2 | 4083845 | 0.000141961 | 2.16E-05 | 1.17E-05 |
| 1386 | 257753.9 | 4083846 | 0.000139442 | 2.12E-05 | 1.15E-05 |
| 1387 | 257729.5 | 4083847 | 0.000137071 | 2.09E-05 | 1.13E-05 |
| 1388 | 257705.2 | 4083848 | 0.000134848 | 2.05E-05 | 1.11E-05 |
| 1389 | 257680.9 | 4083849 | 0.000132922 | 2.02E-05 | 1.10E-05 |
| 1390 | 257656.5 | 4083850 | 0.000130995 | 2.00E-05 | 1.08E-05 |
| 1391 | 257632.2 | 4083851 | 0.000129365 | 1.97E-05 | 1.07E-05 |
| 1392 | 257607.9 | 4083852 | 0.000127587 | 1.94E-05 | 1.05E-05 |
| 1393 | 257583.5 | 4083853 | 0.000125957 | 1.92E-05 | 1.04E-05 |
| 1394 | 257559.2 | 4083854 | 0.000124327 | 1.89E-05 | 1.02E-05 |
| 1395 | 257534.9 | 4083855 | 0.000122549 | 1.87E-05 | 1.01E-05 |
| 1396 | 257510.6 | 4083856 | 0.000120919 | 1.84E-05 | 9.97E-06 |
| 1397 | 258327.7 | 4083631 | 0.00018938 | 2.89E-05 | 1.56E-05 |
| 1398 | 258350 | 4083640 | 0.000196789 | 3.00E-05 | 1.62E-05 |
| 1399 | 258372.4 | 4083648 | 0.000204643 | 3.12E-05 | 1.69E-05 |
| 1400 | 258394.8 | 4083656 | 0.00021309 | 3.25E-05 | 1.76E-05 |
| 1401 | 258417.2 | 4083665 | 0.000222277 | 3.39E-05 | 1.83E-05 |
| 1402 | 258439.5 | 4083673 | 0.000232057 | 3.54E-05 | 1.91E-05 |

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| 1403 | 258461.9 | 4083681 | 0.000242579 | 3.70E-05 | 2.00E-05 |
| 1404 | 258484.3 | 4083689 | 0.000253841 | 3.87E-05 | 2.09E-05 |
| 1405 | 258506.7 | 4083698 | 0.00026614 | 4.05E-05 | 2.19E-05 |
| 1406 | 258529 | 4083706 | 0.00027918 | 4.25E-05 | 2.30E-05 |
| 1407 | 258551.4 | 4083714 | 0.00029311 | 4.47E-05 | 2.42E-05 |
| 1408 | 258573.8 | 4083723 | 0.000307928 | 4.69E-05 | 2.54E-05 |
| 1409 | 258596.2 | 4083731 | 0.000323636 | 4.93E-05 | 2.67E-05 |
| 1410 | 258618.5 | 4083739 | 0.000340084 | 5.18E-05 | 2.80E-05 |
| 1411 | 258640.9 | 4083747 | 0.000357422 | 5.45E-05 | 2.95E-05 |
| 1412 | 258663.3 | 4083756 | 0.000375352 | 5.72E-05 | 3.09E-05 |
| 1413 | 258685.7 | 4083764 | 0.000394172 | 6.00E-05 | 3.25E-05 |
| 1414 | 258708 | 4083772 | 0.000413584 | 6.30E-05 | 3.41E-05 |
| 1415 | 258730.4 | 4083781 | 0.000433589 | 6.61E-05 | 3.57E-05 |
| 1416 | 258752.8 | 4083789 | 0.000454335 | 6.92E-05 | 3.75E-05 |
| 1417 | 258775.2 | 4083797 | 0.000475377 | 7.24E-05 | 3.92E-05 |
| 1418 | 258797.6 | 4083805 | 0.000497012 | 7.57E-05 | 4.10E-05 |
| 1419 | 258819.9 | 4083814 | 0.000519091 | 7.91E-05 | 4.28E-05 |
| 1420 | 258842.3 | 4083822 | 0.000541319 | 8.25E-05 | 4.46E-05 |
| 1421 | 258864.7 | 4083830 | 0.000563695 | 8.59E-05 | 4.65E-05 |
| 1422 | 258887.1 | 4083839 | 0.000586219 | 8.93E-05 | 4.83E-05 |
| 1423 | 258909.4 | 4083847 | 0.000608595 | 9.27E-05 | 5.02E-05 |
| 1424 | 258931.8 | 4083855 | 0.000630971 | 9.61E-05 | 5.20E-05 |
| 1425 | 258954.2 | 4083863 | 0.000653051 | 9.95E-05 | 5.38E-05 |
| 1426 | 258976.6 | 4083872 | 0.000674834 | 1.03E-04 | 5.56E-05 |
| 1427 | 258998.9 | 4083880 | 0.000696024 | 1.06E-04 | 5.74E-05 |
| 1428 | 259021.3 | 4083888 | 0.000716474 | 1.09E-04 | 5.91E-05 |
| 1429 | 259043.7 | 4083897 | 0.000736182 | 1.12E-04 | 6.07E-05 |
| 1430 | 259066.1 | 4083905 | 0.000754409 | 1.15E-04 | 6.22E-05 |
| 1431 | 259088.4 | 4083913 | 0.000771598 | 1.18E-04 | 6.36E-05 |
| 1432 | 259110.8 | 4083921 | 0.000787454 | 1.20E-04 | 6.49E-05 |
| 1433 | 259133.2 | 4083930 | 0.000801976 | 1.22E-04 | 6.61E-05 |
| 1434 | 259155.6 | 4083938 | 0.00081472 | 1.24E-04 | 6.72E-05 |
| 1435 | 259177.9 | 4083946 | 0.000825389 | 1.26E-04 | 6.80E-05 |
| 1436 | 259200.3 | 4083955 | 0.000834873 | 1.27E-04 | 6.88E-05 |
| 1437 | 259222.7 | 4083963 | 0.000842727 | 1.28E-04 | 6.95E-05 |
| 1438 | 259254.9 | 4083993 | 0.000871475 | 1.33E-04 | 7.18E-05 |
| 1439 | 259264.7 | 4084015 | 0.000892517 | 1.36E-04 | 7.36E-05 |
| 1440 | 259274.6 | 4084036 | 0.000912522 | 1.39E-04 | 7.52E-05 |
| 1441 | 259284.4 | 4084058 | 0.000930749 | 1.42E-04 | 7.67E-05 |
| 1442 | 259294.2 | 4084080 | 0.000946901 | 1.44E-04 | 7.81E-05 |
| 1443 | 259304.1 | 4084102 | 0.00096083 | 1.46E-04 | 7.92E-05 |
| 1444 | 259313.9 | 4084123 | 0.000972389 | 1.48E-04 | 8.02E-05 |
| 1445 | 259323.7 | 4084145 | 0.00098128 | 1.49E-04 | 8.09E-05 |
| 1446 | 259333.6 | 4084167 | 0.000987355 | 1.50E-04 | 8.14E-05 |
| 1447 | 259343.4 | 4084188 | 0.000990764 | 1.51E-04 | 8.17E-05 |
| 1448 | 259353.3 | 4084210 | 0.000991208 | 1.51E-04 | 8.17E-05 |
| 1449 | 259363.1 | 4084232 | 0.000988837 | 1.51E-04 | 8.15E-05 |

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|---|---|---|---|---|---|
| 1450 | 259372.9 | 4084254 | 0.000983651 | 1.50E-04 | 8.11E-05 |
| 1451 | 259382.8 | 4084275 | 0.000975945 | 1.49E-04 | 8.04E-05 |
| 1452 | 259392.6 | 4084297 | 0.000965572 | 1.47E-04 | 7.96E-05 |
| 1453 | 259402.4 | 4084319 | 0.000953125 | 1.45E-04 | 7.86E-05 |
| 1454 | 259412.3 | 4084341 | 0.000938603 | 1.43E-04 | 7.74E-05 |
| 1455 | 259422.1 | 4084362 | 0.00092245 | 1.41E-04 | 7.60E-05 |
| 1456 | 259431.9 | 4084384 | 0.000905113 | 1.38E-04 | 7.46E-05 |
| 1457 | 259441.8 | 4084406 | 0.000890294 | 1.36E-04 | 7.34E-05 |
| 1458 | 259451.6 | 4084428 | 0.000871623 | 1.33E-04 | 7.18E-05 |
| 1459 | 259461.4 | 4084449 | 0.000852655 | 1.30E-04 | 7.03E-05 |
| 1460 | 259471.3 | 4084471 | 0.00083354 | 1.27E-04 | 6.87E-05 |
| 1461 | 259481.1 | 4084493 | 0.000814127 | 1.24E-04 | 6.71E-05 |
| 1462 | 259490.9 | 4084515 | 0.000794567 | 1.21E-04 | 6.55E-05 |
| 1463 | 259500.8 | 4084536 | 0.000774266 | 1.18E-04 | 6.38E-05 |
| 1464 | 259510.6 | 4084558 | 0.000753075 | 1.15E-04 | 6.21E-05 |
| 1465 | 259520.4 | 4084580 | 0.000730551 | 1.11E-04 | 6.02E-05 |
| 1466 | 259530.3 | 4084602 | 0.000706842 | 1.08E-04 | 5.83E-05 |
| 1467 | 259540.1 | 4084623 | 0.000682095 | 1.04E-04 | 5.62E-05 |
| 1468 | 259549.9 | 4084645 | 0.000656755 | 1.00E-04 | 5.41E-05 |
| 1469 | 259559.8 | 4084667 | 0.000631564 | 9.62E-05 | 5.21E-05 |
| 1470 | 259569.6 | 4084688 | 0.000607261 | 9.25E-05 | 5.01E-05 |
| 1471 | 259579.5 | 4084710 | 0.000584441 | 8.90E-05 | 4.82E-05 |
| 1472 | 259589.3 | 4084732 | 0.000563399 | 8.58E-05 | 4.64E-05 |
| 1473 | 259599.1 | 4084754 | 0.000544135 | 8.29E-05 | 4.49E-05 |
| 1474 | 259609 | 4084775 | 0.000526352 | 8.02E-05 | 4.34E-05 |
| 1475 | 259618.8 | 4084797 | 0.000509756 | 7.77E-05 | 4.20E-05 |
| 1476 | 259628.6 | 4084819 | 0.000493604 | 7.52E-05 | 4.07E-05 |
| 1477 | 259638.5 | 4084841 | 0.0004776 | 7.28E-05 | 3.94E-05 |
| 1478 | 259648.3 | 4084862 | 0.000461596 | 7.03E-05 | 3.80E-05 |
| 1479 | 258305.3 | 4083623 | 0.000182416 | 2.78E-05 | 1.50E-05 |
| 1480 | 258281 | 4083624 | 0.000178118 | 2.71E-05 | 1.47E-05 |
| 1481 | 258256.6 | 4083625 | 0.000173969 | 2.65E-05 | 1.43E-05 |
| 1482 | 258232.3 | 4083626 | 0.000169968 | 2.59E-05 | 1.40E-05 |
| 1483 | 258208 | 4083627 | 0.000165967 | 2.53E-05 | 1.37E-05 |
| 1484 | 258183.6 | 4083628 | 0.000162114 | 2.47E-05 | 1.34E-05 |
| 1485 | 258159.3 | 4083629 | 0.000158261 | 2.41E-05 | 1.30E-05 |
| 1486 | 258135 | 4083630 | 0.000154409 | 2.35E-05 | 1.27E-05 |
| 1487 | 258110.6 | 4083631 | 0.000150556 | 2.29E-05 | 1.24E-05 |
| 1488 | 258086.3 | 4083632 | 0.000146851 | 2.24E-05 | 1.21E-05 |
| 1489 | 258062 | 4083633 | 0.000143295 | 2.18E-05 | 1.18E-05 |
| 1490 | 258037.6 | 4083634 | 0.000139738 | 2.13E-05 | 1.15E-05 |
| 1491 | 258013.3 | 4083635 | 0.000136182 | 2.07E-05 | 1.12E-05 |
| 1492 | 257989 | 4083636 | 0.000132922 | 2.02E-05 | 1.10E-05 |
| 1493 | 257964.6 | 4083637 | 0.000129662 | 1.98E-05 | 1.07E-05 |
| 1494 | 257940.3 | 4083638 | 0.000126698 | 1.93E-05 | 1.04E-05 |
| 1495 | 257916 | 4083639 | 0.000123734 | 1.89E-05 | 1.02E-05 |
| 1496 | 257891.6 | 4083640 | 0.000120919 | 1.84E-05 | 9.97E-06 |

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| 1497 | 257867.3 | 4083641 | 0.0001184 | 1.80E-05 | 9.76E-06 |
| 1498 | 257843 | 4083642 | 0.000115881 | 1.77E-05 | 9.55E-06 |
| 1499 | 257818.6 | 4083643 | 0.000113658 | 1.73E-05 | 9.37E-06 |
| 1500 | 257794.3 | 4083644 | 0.000111583 | 1.70E-05 | 9.20E-06 |
| 1501 | 257770 | 4083645 | 0.000109657 | 1.67E-05 | 9.04E-06 |
| 1502 | 257745.7 | 4083646 | 0.00010773 | 1.64E-05 | 8.88E-06 |
| 1503 | 257721.3 | 4083647 | 0.0001061 | 1.62E-05 | 8.75E-06 |
| 1504 | 257697 | 4083648 | 0.000104619 | 1.59E-05 | 8.62E-06 |
| 1505 | 257672.7 | 4083649 | 0.000103137 | 1.57E-05 | 8.50E-06 |
| 1506 | 257648.3 | 4083650 | 0.000101803 | 1.55E-05 | 8.39E-06 |
| 1507 | 257624 | 4083651 | 0.000100469 | 1.53E-05 | 8.28E-06 |
| 1508 | 257599.7 | 4083652 | 9.92838E-05 | 1.51E-05 | 8.18E-06 |
| 1509 | 257575.3 | 4083653 | 9.80984E-05 | 1.49E-05 | 8.09E-06 |
| 1510 | 257551 | 4083654 | 9.69129E-05 | 1.48E-05 | 7.99E-06 |
| 1511 | 257526.7 | 4083655 | 9.58756E-05 | 1.46E-05 | 7.90E-06 |
| 1512 | 257502.3 | 4083656 | 9.46901E-05 | 1.44E-05 | 7.81E-06 |
| 1513 | 258319.7 | 4083432 | 0.000139738 | 2.13E-05 | 1.15E-05 |
| 1514 | 258342.3 | 4083440 | 0.000144332 | 2.20E-05 | 1.19E-05 |
| 1515 | 258364.8 | 4083448 | 0.000149074 | 2.27E-05 | 1.23E-05 |
| 1516 | 258387.4 | 4083457 | 0.000154112 | 2.35E-05 | 1.27E-05 |
| 1517 | 258410 | 4083465 | 0.000159447 | 2.43E-05 | 1.31E-05 |
| 1518 | 258432.6 | 4083474 | 0.000165226 | 2.52E-05 | 1.36E-05 |
| 1519 | 258455.2 | 4083482 | 0.000171154 | 2.61E-05 | 1.41E-05 |
| 1520 | 258477.8 | 4083490 | 0.000177525 | 2.70E-05 | 1.46E-05 |
| 1521 | 258500.4 | 4083499 | 0.000184194 | 2.81E-05 | 1.52E-05 |
| 1522 | 258523 | 4083507 | 0.000191455 | 2.92E-05 | 1.58E-05 |
| 1523 | 258545.6 | 4083515 | 0.00019916 | 3.03E-05 | 1.64E-05 |
| 1524 | 258568.2 | 4083524 | 0.000207311 | 3.16E-05 | 1.71E-05 |
| 1525 | 258590.8 | 4083532 | 0.000216054 | 3.29E-05 | 1.78E-05 |
| 1526 | 258613.3 | 4083540 | 0.000225389 | 3.43E-05 | 1.86E-05 |
| 1527 | 258635.9 | 4083549 | 0.000235318 | 3.58E-05 | 1.94E-05 |
| 1528 | 258658.5 | 4083557 | 0.000245987 | 3.75E-05 | 2.03E-05 |
| 1529 | 258681.1 | 4083566 | 0.000257249 | 3.92E-05 | 2.12E-05 |
| 1530 | 258703.7 | 4083574 | 0.000268955 | 4.10E-05 | 2.22E-05 |
| 1531 | 258726.3 | 4083582 | 0.000281403 | 4.29E-05 | 2.32E-05 |
| 1532 | 258748.9 | 4083591 | 0.000294295 | 4.48E-05 | 2.43E-05 |
| 1533 | 258771.5 | 4083599 | 0.000307632 | 4.69E-05 | 2.54E-05 |
| 1534 | 258794.1 | 4083607 | 0.000321561 | 4.90E-05 | 2.65E-05 |
| 1535 | 258816.7 | 4083616 | 0.000335935 | 5.12E-05 | 2.77E-05 |
| 1536 | 258839.3 | 4083624 | 0.000350754 | 5.34E-05 | 2.89E-05 |
| 1537 | 258861.8 | 4083632 | 0.000365868 | 5.57E-05 | 3.02E-05 |
| 1538 | 258884.4 | 4083641 | 0.000381428 | 5.81E-05 | 3.14E-05 |
| 1539 | 258907 | 4083649 | 0.000397284 | 6.05E-05 | 3.27E-05 |
| 1540 | 258929.6 | 4083658 | 0.000413584 | 6.30E-05 | 3.41E-05 |
| 1541 | 258952.2 | 4083666 | 0.000430032 | 6.55E-05 | 3.54E-05 |
| 1542 | 258974.8 | 4083674 | 0.000446777 | 6.81E-05 | 3.68E-05 |
| 1543 | 258997.4 | 4083683 | 0.00046367 | 7.06E-05 | 3.82E-05 |

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| 1544 | 259020 | 4083691 | 0.000480712 | 7.32E-05 | 3.96E-05 |
| 1545 | 259042.6 | 4083699 | 0.000497753 | 7.58E-05 | 4.10E-05 |
| 1546 | 259065.2 | 4083708 | 0.000514646 | 7.84E-05 | 4.24E-05 |
| 1547 | 259087.8 | 4083716 | 0.000531391 | 8.10E-05 | 4.38E-05 |
| 1548 | 259110.3 | 4083724 | 0.000547987 | 8.35E-05 | 4.52E-05 |
| 1549 | 259132.9 | 4083733 | 0.00056414 | 8.59E-05 | 4.65E-05 |
| 1550 | 259155.5 | 4083741 | 0.000579699 | 8.83E-05 | 4.78E-05 |
| 1551 | 259178.1 | 4083750 | 0.000594666 | 9.06E-05 | 4.90E-05 |
| 1552 | 259200.7 | 4083758 | 0.000608891 | 9.28E-05 | 5.02E-05 |
| 1553 | 259223.3 | 4083766 | 0.00062208 | 9.48E-05 | 5.13E-05 |
| 1554 | 259245.9 | 4083775 | 0.000634379 | 9.66E-05 | 5.23E-05 |
| 1555 | 259268.5 | 4083783 | 0.000645345 | 9.83E-05 | 5.32E-05 |
| 1556 | 259291.1 | 4083791 | 0.000655421 | 9.98E-05 | 5.40E-05 |
| 1557 | 259313.7 | 4083800 | 0.000664164 | 1.01E-04 | 5.47E-05 |
| 1558 | 259336.3 | 4083808 | 0.000671722 | 1.02E-04 | 5.54E-05 |
| 1559 | 259358.8 | 4083816 | 0.000678242 | 1.03E-04 | 5.59E-05 |
| 1560 | 259391.4 | 4083847 | 0.000700618 | 1.07E-04 | 5.78E-05 |
| 1561 | 259401.3 | 4083869 | 0.000717215 | 1.09E-04 | 5.91E-05 |
| 1562 | 259411.2 | 4083891 | 0.000732922 | 1.12E-04 | 6.04E-05 |
| 1563 | 259421.2 | 4083913 | 0.000747444 | 1.14E-04 | 6.16E-05 |
| 1564 | 259431.1 | 4083935 | 0.000760781 | 1.16E-04 | 6.27E-05 |
| 1565 | 259441 | 4083956 | 0.000772932 | 1.18E-04 | 6.37E-05 |
| 1566 | 259450.9 | 4083978 | 0.000783453 | 1.19E-04 | 6.46E-05 |
| 1567 | 259460.9 | 4084000 | 0.000792492 | 1.21E-04 | 6.53E-05 |
| 1568 | 259470.8 | 4084022 | 0.000799902 | 1.22E-04 | 6.59E-05 |
| 1569 | 259480.7 | 4084044 | 0.000805533 | 1.23E-04 | 6.64E-05 |
| 1570 | 259490.7 | 4084066 | 0.000809237 | 1.23E-04 | 6.67E-05 |
| 1571 | 259500.6 | 4084088 | 0.000811016 | 1.24E-04 | 6.69E-05 |
| 1572 | 259510.5 | 4084110 | 0.000810867 | 1.24E-04 | 6.68E-05 |
| 1573 | 259520.4 | 4084132 | 0.000808793 | 1.23E-04 | 6.67E-05 |
| 1574 | 259530.4 | 4084154 | 0.000804644 | 1.23E-04 | 6.63E-05 |
| 1575 | 259540.3 | 4084176 | 0.000798716 | 1.22E-04 | 6.58E-05 |
| 1576 | 259550.2 | 4084198 | 0.000790862 | 1.20E-04 | 6.52E-05 |
| 1577 | 259560.2 | 4084220 | 0.000781527 | 1.19E-04 | 6.44E-05 |
| 1578 | 259570.1 | 4084242 | 0.000770709 | 1.17E-04 | 6.35E-05 |
| 1579 | 259580 | 4084264 | 0.000758558 | 1.16E-04 | 6.25E-05 |
| 1580 | 259590 | 4084286 | 0.000745814 | 1.14E-04 | 6.15E-05 |
| 1581 | 259599.9 | 4084308 | 0.000732329 | 1.12E-04 | 6.04E-05 |
| 1582 | 259609.8 | 4084330 | 0.000718696 | 1.09E-04 | 5.92E-05 |
| 1583 | 259619.7 | 4084352 | 0.000705212 | 1.07E-04 | 5.81E-05 |
| 1584 | 259629.7 | 4084374 | 0.000691875 | 1.05E-04 | 5.70E-05 |
| 1585 | 259639.6 | 4084395 | 0.000678983 | 1.03E-04 | 5.60E-05 |
| 1586 | 259649.5 | 4084417 | 0.00066861 | 1.02E-04 | 5.51E-05 |
| 1587 | 259659.5 | 4084439 | 0.000655866 | 9.99E-05 | 5.41E-05 |
| 1588 | 259669.4 | 4084461 | 0.000642974 | 9.80E-05 | 5.30E-05 |
| 1589 | 259679.3 | 4084483 | 0.000629045 | 9.58E-05 | 5.19E-05 |
| 1590 | 259689.2 | 4084505 | 0.000614374 | 9.36E-05 | 5.06E-05 |

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| 1591 | 259699.2 | 4084527 | 0.000598519 | 9.12E-05 | 4.93E-05 |
| 1592 | 259709.1 | 4084549 | 0.000581329 | 8.86E-05 | 4.79E-05 |
| 1593 | 259719 | 4084571 | 0.000563102 | 8.58E-05 | 4.64E-05 |
| 1594 | 259729 | 4084593 | 0.000544135 | 8.29E-05 | 4.49E-05 |
| 1595 | 259738.9 | 4084615 | 0.000525167 | 8.00E-05 | 4.33E-05 |
| 1596 | 259748.8 | 4084637 | 0.000506496 | 7.72E-05 | 4.18E-05 |
| 1597 | 259758.8 | 4084659 | 0.00048901 | 7.45E-05 | 4.03E-05 |
| 1598 | 259768.7 | 4084681 | 0.000472858 | 7.20E-05 | 3.90E-05 |
| 1599 | 259778.6 | 4084703 | 0.000458336 | 6.98E-05 | 3.78E-05 |
| 1600 | 259788.5 | 4084725 | 0.000445295 | 6.78E-05 | 3.67E-05 |
| 1601 | 259798.5 | 4084747 | 0.000433292 | 6.60E-05 | 3.57E-05 |
| 1602 | 259808.4 | 4084769 | 0.00042203 | 6.43E-05 | 3.48E-05 |
| 1603 | 259818.3 | 4084791 | 0.000411065 | 6.26E-05 | 3.39E-05 |
| 1604 | 259828.3 | 4084812 | 0.000399951 | 6.09E-05 | 3.30E-05 |
| 1605 | 259838.2 | 4084834 | 0.000388541 | 5.92E-05 | 3.20E-05 |
| 1606 | 259848.1 | 4084856 | 0.000376686 | 5.74E-05 | 3.11E-05 |
| 1607 | 258297.1 | 4083423 | 0.000135589 | 2.07E-05 | 1.12E-05 |
| 1608 | 258272.7 | 4083424 | 0.000132922 | 2.02E-05 | 1.10E-05 |
| 1609 | 258248.4 | 4083425 | 0.000130403 | 1.99E-05 | 1.07E-05 |
| 1610 | 258224.1 | 4083426 | 0.000128032 | 1.95E-05 | 1.06E-05 |
| 1611 | 258199.7 | 4083427 | 0.000125661 | 1.91E-05 | 1.04E-05 |
| 1612 | 258175.4 | 4083428 | 0.000123438 | 1.88E-05 | 1.02E-05 |
| 1613 | 258151.1 | 4083429 | 0.000121215 | 1.85E-05 | 9.99E-06 |
| 1614 | 258126.7 | 4083430 | 0.000118992 | 1.81E-05 | 9.81E-06 |
| 1615 | 258102.4 | 4083431 | 0.00011677 | 1.78E-05 | 9.63E-06 |
| 1616 | 258078.1 | 4083432 | 0.000114547 | 1.75E-05 | 9.44E-06 |
| 1617 | 258053.8 | 4083433 | 0.000112472 | 1.71E-05 | 9.27E-06 |
| 1618 | 258029.4 | 4083434 | 0.00011025 | 1.68E-05 | 9.09E-06 |
| 1619 | 258005.1 | 4083435 | 0.000108175 | 1.65E-05 | 8.92E-06 |
| 1620 | 257980.8 | 4083436 | 0.000105952 | 1.61E-05 | 8.73E-06 |
| 1621 | 257956.4 | 4083437 | 0.000103878 | 1.58E-05 | 8.56E-06 |
| 1622 | 257932.1 | 4083438 | 0.000101951 | 1.55E-05 | 8.40E-06 |
| 1623 | 257907.8 | 4083439 | 9.98766E-05 | 1.52E-05 | 8.23E-06 |
| 1624 | 257883.4 | 4083440 | 9.79502E-05 | 1.49E-05 | 8.07E-06 |
| 1625 | 257859.1 | 4083441 | 9.6172E-05 | 1.47E-05 | 7.93E-06 |
| 1626 | 257834.8 | 4083442 | 9.43937E-05 | 1.44E-05 | 7.78E-06 |
| 1627 | 257810.4 | 4083443 | 9.27637E-05 | 1.41E-05 | 7.65E-06 |
| 1628 | 257786.1 | 4083444 | 9.11337E-05 | 1.39E-05 | 7.51E-06 |
| 1629 | 257761.8 | 4083445 | 8.96518E-05 | 1.37E-05 | 7.39E-06 |
| 1630 | 257737.4 | 4083446 | 8.817E-05 | 1.34E-05 | 7.27E-06 |
| 1631 | 257713.1 | 4083447 | 8.68363E-05 | 1.32E-05 | 7.16E-06 |
| 1632 | 257688.8 | 4083448 | 8.55026E-05 | 1.30E-05 | 7.05E-06 |
| 1633 | 257664.4 | 4083449 | 8.43172E-05 | 1.28E-05 | 6.95E-06 |
| 1634 | 257640.1 | 4083450 | 8.31317E-05 | 1.27E-05 | 6.85E-06 |
| 1635 | 257615.8 | 4083451 | 8.19462E-05 | 1.25E-05 | 6.75E-06 |
| 1636 | 257591.4 | 4083452 | 8.09089E-05 | 1.23E-05 | 6.67E-06 |
| 1637 | 257567.1 | 4083453 | 7.98716E-05 | 1.22E-05 | 6.58E-06 |

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| 1638 | 257542.8 | 4083454 | 7.88343E-05 | 1.20E-05 | 6.50E-06 |
| 1639 | 257518.5 | 4083455 | 7.7797E-05 | 1.19E-05 | 6.41E-06 |
| 1640 | 257494.1 | 4083456 | 7.69079E-05 | 1.17E-05 | 6.34E-06 |
| 1641 | 257530.8 | 4084956 | 0.005880714 | 8.96E-04 | 4.85E-04 |
| 1642 | 257532.4 | 4085001 | 0.01557674 | 2.37E-03 | 1.28E-03 |
| 1643 | 257534.1 | 4085045 | 0.02475739 | 3.77E-03 | 2.04E-03 |
| 1644 | 257534.9 | 4085067 | 0.02767781 | 4.22E-03 | 2.28E-03 |
| 1645 | 257536.5 | 4085112 | 0.03112311 | 4.74E-03 | 2.57E-03 |
| 1646 | 257538.2 | 4085157 | 0.0301036 | 4.59E-03 | 2.48E-03 |
| 1647 | 257512.4 | 4084939 | 0.003679133 | 5.60E-04 | 3.03E-04 |
| 1648 | 257506.6 | 4084979 | 0.006169379 | 9.40E-04 | 5.09E-04 |
| 1649 | 257508.2 | 4085024 | 0.01177358 | 1.79E-03 | 9.70E-04 |
| 1650 | 257509.9 | 4085068 | 0.01678934 | 2.56E-03 | 1.38E-03 |
| 1651 | 257511.5 | 4085113 | 0.01984595 | 3.02E-03 | 1.64E-03 |
| 1652 | 257513.2 | 4085157 | 0.02037186 | 3.10E-03 | 1.68E-03 |
| 1653 | 257487.4 | 4084940 | 0.003034825 | 4.62E-04 | 2.50E-04 |
| 1654 | 257518 | 4084896 | 0.002431564 | 3.70E-04 | 2.00E-04 |
| 1655 | 257481.6 | 4084980 | 0.004553571 | 6.94E-04 | 3.75E-04 |
| 1656 | 257483.3 | 4085025 | 0.007734358 | 1.18E-03 | 6.38E-04 |
| 1657 | 257484.9 | 4085069 | 0.01127657 | 1.72E-03 | 9.30E-04 |
| 1658 | 257486.6 | 4085114 | 0.01383691 | 2.11E-03 | 1.14E-03 |
| 1659 | 257488.2 | 4085158 | 0.01485049 | 2.26E-03 | 1.22E-03 |
| 1660 | 257462.4 | 4084941 | 0.002573822 | 3.92E-04 | 2.12E-04 |
| 1661 | 257475.7 | 4084905 | 0.002056805 | 3.13E-04 | 1.70E-04 |
| 1662 | 257499.6 | 4084879 | 0.001906101 | 2.90E-04 | 1.57E-04 |
| 1663 | 257456.6 | 4084981 | 0.00361319 | 5.50E-04 | 2.98E-04 |
| 1664 | 257458.3 | 4085026 | 0.005604794 | 8.54E-04 | 4.62E-04 |
| 1665 | 257459.1 | 4085048 | 0.006844657 | 1.04E-03 | 5.64E-04 |
| 1666 | 257460.8 | 4085092 | 0.009228801 | 1.41E-03 | 7.61E-04 |
| 1667 | 257462.4 | 4085137 | 0.01087691 | 1.66E-03 | 8.97E-04 |
| 1668 | 257412.5 | 4084943 | 0.001958114 | 2.98E-04 | 1.61E-04 |
| 1669 | 257425.7 | 4084907 | 0.001629737 | 2.48E-04 | 1.34E-04 |
| 1670 | 257439 | 4084871 | 0.001380341 | 2.10E-04 | 1.14E-04 |
| 1671 | 257462.9 | 4084845 | 0.001300914 | 1.98E-04 | 1.07E-04 |
| 1672 | 257497.6 | 4084829 | 0.001349519 | 2.06E-04 | 1.11E-04 |
| 1673 | 257406.7 | 4084983 | 0.002543148 | 3.87E-04 | 2.10E-04 |
| 1674 | 257408.3 | 4085027 | 0.003514796 | 5.35E-04 | 2.90E-04 |
| 1675 | 257410 | 4085072 | 0.00478311 | 7.29E-04 | 3.94E-04 |
| 1676 | 257411.6 | 4085117 | 0.006101361 | 9.30E-04 | 5.03E-04 |
| 1677 | 257413.3 | 4085161 | 0.007074047 | 1.08E-03 | 5.83E-04 |
| 1678 | 257363.4 | 4084942 | 0.001547494 | 2.36E-04 | 1.28E-04 |
| 1679 | 257378.6 | 4084901 | 0.001294098 | 1.97E-04 | 1.07E-04 |
| 1680 | 257393.7 | 4084860 | 0.001101902 | 1.68E-04 | 9.08E-05 |
| 1681 | 257428.7 | 4084810 | 0.000966461 | 1.47E-04 | 7.97E-05 |
| 1682 | 257468.3 | 4084792 | 0.000996247 | 1.52E-04 | 8.21E-05 |
| 1683 | 257507.9 | 4084774 | 0.001029736 | 1.57E-04 | 8.49E-05 |
| 1684 | 257356.7 | 4084985 | 0.001945519 | 2.96E-04 | 1.60E-04 |

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| 1685 | 257358.3 | 4085029 | 0.002520772 | 3.84E-04 | 2.08E-04 |
| 1686 | 257360 | 4085074 | 0.003224205 | 4.91E-04 | 2.66E-04 |
| 1687 | 257361.7 | 4085118 | 0.004031516 | 6.14E-04 | 3.32E-04 |
| 1688 | 257363.3 | 4085163 | 0.004766661 | 7.26E-04 | 3.93E-04 |
| 1689 | 257313.3 | 4084944 | 0.001285651 | 1.96E-04 | 1.06E-04 |
| 1690 | 257328 | 4084905 | 0.001099828 | 1.68E-04 | 9.07E-05 |
| 1691 | 257342.7 | 4084865 | 0.000954755 | 1.45E-04 | 7.87E-05 |
| 1692 | 257357.5 | 4084825 | 0.000840208 | 1.28E-04 | 6.93E-05 |
| 1693 | 257391.4 | 4084776 | 0.000753372 | 1.15E-04 | 6.21E-05 |
| 1694 | 257429.9 | 4084759 | 0.000771006 | 1.17E-04 | 6.36E-05 |
| 1695 | 257468.5 | 4084741 | 0.000787899 | 1.20E-04 | 6.49E-05 |
| 1696 | 257507 | 4084723 | 0.000808793 | 1.23E-04 | 6.67E-05 |
| 1697 | 257306.7 | 4084987 | 0.001566314 | 2.39E-04 | 1.29E-04 |
| 1698 | 257307.6 | 4085009 | 0.001752434 | 2.67E-04 | 1.44E-04 |
| 1699 | 257309.2 | 4085053 | 0.002154459 | 3.28E-04 | 1.78E-04 |
| 1700 | 257310.9 | 4085098 | 0.002618129 | 3.99E-04 | 2.16E-04 |
| 1701 | 257312.5 | 4085143 | 0.003133368 | 4.77E-04 | 2.58E-04 |
| 1702 | 257263.2 | 4084947 | 0.00109642 | 1.67E-04 | 9.04E-05 |
| 1703 | 257277.6 | 4084908 | 0.000951347 | 1.45E-04 | 7.84E-05 |
| 1704 | 257292.1 | 4084869 | 0.000836207 | 1.27E-04 | 6.89E-05 |
| 1705 | 257306.6 | 4084829 | 0.000744777 | 1.13E-04 | 6.14E-05 |
| 1706 | 257321 | 4084790 | 0.000669203 | 1.02E-04 | 5.52E-05 |
| 1707 | 257354.4 | 4084743 | 0.000608891 | 9.28E-05 | 5.02E-05 |
| 1708 | 257392.2 | 4084725 | 0.000620005 | 9.45E-05 | 5.11E-05 |
| 1709 | 257430 | 4084708 | 0.00063023 | 9.60E-05 | 5.19E-05 |
| 1710 | 257467.8 | 4084690 | 0.000641048 | 9.77E-05 | 5.28E-05 |
| 1711 | 257505.6 | 4084673 | 0.000655718 | 9.99E-05 | 5.41E-05 |
| 1712 | 257256.8 | 4084988 | 0.001306101 | 1.99E-04 | 1.08E-04 |
| 1713 | 257258.4 | 4085033 | 0.001577279 | 2.40E-04 | 1.30E-04 |
| 1714 | 257260.1 | 4085078 | 0.001862239 | 2.84E-04 | 1.54E-04 |
| 1715 | 257261.7 | 4085122 | 0.002176094 | 3.32E-04 | 1.79E-04 |
| 1716 | 257263.4 | 4085167 | 0.002527292 | 3.85E-04 | 2.08E-04 |
| 1717 | 257163.6 | 4084949 | 0.00084006 | 1.28E-04 | 6.92E-05 |
| 1718 | 257178.7 | 4084909 | 0.000737516 | 1.12E-04 | 6.08E-05 |
| 1719 | 257193.9 | 4084868 | 0.000652902 | 9.95E-05 | 5.38E-05 |
| 1720 | 257209 | 4084827 | 0.000586516 | 8.94E-05 | 4.83E-05 |
| 1721 | 257224.2 | 4084786 | 0.00053228 | 8.11E-05 | 4.39E-05 |
| 1722 | 257239.3 | 4084745 | 0.000486343 | 7.41E-05 | 4.01E-05 |
| 1723 | 257254.5 | 4084704 | 0.000444554 | 6.77E-05 | 3.66E-05 |
| 1724 | 257281.9 | 4084674 | 0.000427513 | 6.51E-05 | 3.52E-05 |
| 1725 | 257321.5 | 4084656 | 0.000433292 | 6.60E-05 | 3.57E-05 |
| 1726 | 257361.1 | 4084638 | 0.000439072 | 6.69E-05 | 3.62E-05 |
| 1727 | 257400.7 | 4084619 | 0.000444554 | 6.77E-05 | 3.66E-05 |
| 1728 | 257440.3 | 4084601 | 0.000450482 | 6.86E-05 | 3.71E-05 |
| 1729 | 257479.9 | 4084583 | 0.00045878 | 6.99E-05 | 3.78E-05 |
| 1730 | 257156.8 | 4084992 | 0.000973574 | 1.48E-04 | 8.03E-05 |
| 1731 | 257158.5 | 4085037 | 0.001131391 | 1.72E-04 | 9.33E-05 |

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| 1732 | 257160.1 | 4085081 | 0.00128002 | 1.95E-04 | 1.06E-04 |
| 1733 | 257161.8 | 4085126 | 0.001422722 | 2.17E-04 | 1.17E-04 |
| 1734 | 257162.6 | 4085148 | 0.001498445 | 2.28E-04 | 1.24E-04 |
| 1735 | 257063.4 | 4084954 | 0.00068165 | 1.04E-04 | 5.62E-05 |
| 1736 | 257078.2 | 4084914 | 0.000609336 | 9.28E-05 | 5.02E-05 |
| 1737 | 257092.9 | 4084874 | 0.000546357 | 8.32E-05 | 4.50E-05 |
| 1738 | 257107.6 | 4084834 | 0.000494196 | 7.53E-05 | 4.07E-05 |
| 1739 | 257122.4 | 4084795 | 0.000451667 | 6.88E-05 | 3.72E-05 |
| 1740 | 257137.1 | 4084755 | 0.000415807 | 6.33E-05 | 3.43E-05 |
| 1741 | 257151.8 | 4084715 | 0.000385281 | 5.87E-05 | 3.18E-05 |
| 1742 | 257166.6 | 4084675 | 0.000357866 | 5.45E-05 | 2.95E-05 |
| 1743 | 257181.3 | 4084635 | 0.000331786 | 5.05E-05 | 2.73E-05 |
| 1744 | 257207.9 | 4084607 | 0.00032082 | 4.89E-05 | 2.64E-05 |
| 1745 | 257246.4 | 4084589 | 0.00032408 | 4.94E-05 | 2.67E-05 |
| 1746 | 257284.9 | 4084571 | 0.000328229 | 5.00E-05 | 2.71E-05 |
| 1747 | 257323.4 | 4084553 | 0.000332823 | 5.07E-05 | 2.74E-05 |
| 1748 | 257361.9 | 4084536 | 0.000336972 | 5.13E-05 | 2.78E-05 |
| 1749 | 257400.4 | 4084518 | 0.000340677 | 5.19E-05 | 2.81E-05 |
| 1750 | 257438.9 | 4084500 | 0.00034453 | 5.25E-05 | 2.84E-05 |
| 1751 | 257477.4 | 4084482 | 0.000349123 | 5.32E-05 | 2.88E-05 |
| 1752 | 257056.9 | 4084996 | 0.000772636 | 1.18E-04 | 6.37E-05 |
| 1753 | 257057.7 | 4085018 | 0.000825686 | 1.26E-04 | 6.81E-05 |
| 1754 | 257059.4 | 4085063 | 0.000922747 | 1.41E-04 | 7.61E-05 |
| 1755 | 257061 | 4085107 | 0.001005286 | 1.53E-04 | 8.29E-05 |
| 1756 | 257062.7 | 4085152 | 0.001079823 | 1.65E-04 | 8.90E-05 |
| 1757 | 256963.7 | 4084957 | 0.000571697 | 8.71E-05 | 4.71E-05 |
| 1758 | 256978.9 | 4084916 | 0.000514794 | 7.84E-05 | 4.24E-05 |
| 1759 | 256994 | 4084875 | 0.000464411 | 7.08E-05 | 3.83E-05 |
| 1760 | 257009.2 | 4084834 | 0.000423068 | 6.45E-05 | 3.49E-05 |
| 1761 | 257024.3 | 4084793 | 0.000387948 | 5.91E-05 | 3.20E-05 |
| 1762 | 257039.5 | 4084752 | 0.000357125 | 5.44E-05 | 2.94E-05 |
| 1763 | 257054.6 | 4084711 | 0.000330749 | 5.04E-05 | 2.73E-05 |
| 1764 | 257069.8 | 4084670 | 0.000308224 | 4.70E-05 | 2.54E-05 |
| 1765 | 257084.9 | 4084630 | 0.000288368 | 4.39E-05 | 2.38E-05 |
| 1766 | 257100.1 | 4084589 | 0.000269696 | 4.11E-05 | 2.22E-05 |
| 1767 | 257135 | 4084539 | 0.0002531 | 3.86E-05 | 2.09E-05 |
| 1768 | 257174.6 | 4084520 | 0.000255619 | 3.89E-05 | 2.11E-05 |
| 1769 | 257214.2 | 4084502 | 0.000259323 | 3.95E-05 | 2.14E-05 |
| 1770 | 257253.8 | 4084484 | 0.000263621 | 4.02E-05 | 2.17E-05 |
| 1771 | 257293.5 | 4084465 | 0.000267622 | 4.08E-05 | 2.21E-05 |
| 1772 | 257333.1 | 4084447 | 0.000270586 | 4.12E-05 | 2.23E-05 |
| 1773 | 257372.7 | 4084429 | 0.000272216 | 4.15E-05 | 2.24E-05 |
| 1774 | 257412.3 | 4084410 | 0.000272956 | 4.16E-05 | 2.25E-05 |
| 1775 | 257451.9 | 4084392 | 0.000273697 | 4.17E-05 | 2.26E-05 |
| 1776 | 257491.5 | 4084374 | 0.000274735 | 4.19E-05 | 2.26E-05 |
| 1777 | 256957 | 4085000 | 0.000639714 | 9.75E-05 | 5.27E-05 |
| 1778 | 256958.6 | 4085044 | 0.000712324 | 1.09E-04 | 5.87E-05 |

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| 1779 | 256960.3 | 4085089 | 0.000771598 | 1.18E-04 | 6.36E-05 |
| 1780 | 256961.9 | 4085133 | 0.000818128 | 1.25E-04 | 6.74E-05 |
| 1781 | 256963.6 | 4085178 | 0.000861398 | 1.31E-04 | 7.10E-05 |
| 1782 | 256863.9 | 4084960 | 0.000492566 | 7.50E-05 | 4.06E-05 |
| 1783 | 256879.4 | 4084918 | 0.000445888 | 6.79E-05 | 3.68E-05 |
| 1784 | 256894.9 | 4084877 | 0.000404693 | 6.17E-05 | 3.34E-05 |
| 1785 | 256910.3 | 4084835 | 0.000370907 | 5.65E-05 | 3.06E-05 |
| 1786 | 256925.8 | 4084793 | 0.000342455 | 5.22E-05 | 2.82E-05 |
| 1787 | 256941.3 | 4084751 | 0.000316523 | 4.82E-05 | 2.61E-05 |
| 1788 | 256956.7 | 4084710 | 0.000292665 | 4.46E-05 | 2.41E-05 |
| 1789 | 256972.2 | 4084668 | 0.000271623 | 4.14E-05 | 2.24E-05 |
| 1790 | 256987.7 | 4084626 | 0.000254137 | 3.87E-05 | 2.09E-05 |
| 1791 | 257003.1 | 4084584 | 0.00023917 | 3.64E-05 | 1.97E-05 |
| 1792 | 257018.6 | 4084542 | 0.000225537 | 3.44E-05 | 1.86E-05 |
| 1793 | 257034.1 | 4084501 | 0.000212793 | 3.24E-05 | 1.75E-05 |
| 1794 | 257062 | 4084470 | 0.000207459 | 3.16E-05 | 1.71E-05 |
| 1795 | 257102.5 | 4084452 | 0.000209682 | 3.19E-05 | 1.73E-05 |
| 1796 | 257142.9 | 4084433 | 0.00021309 | 3.25E-05 | 1.76E-05 |
| 1797 | 257183.3 | 4084414 | 0.000217387 | 3.31E-05 | 1.79E-05 |
| 1798 | 257223.7 | 4084396 | 0.000221092 | 3.37E-05 | 1.82E-05 |
| 1799 | 257264.2 | 4084377 | 0.000223611 | 3.41E-05 | 1.84E-05 |
| 1800 | 257304.6 | 4084358 | 0.0002245 | 3.42E-05 | 1.85E-05 |
| 1801 | 257345 | 4084340 | 0.000223759 | 3.41E-05 | 1.84E-05 |
| 1802 | 257385.5 | 4084321 | 0.000222129 | 3.38E-05 | 1.83E-05 |
| 1803 | 257425.9 | 4084302 | 0.000220499 | 3.36E-05 | 1.82E-05 |
| 1804 | 257466.3 | 4084284 | 0.000220055 | 3.35E-05 | 1.81E-05 |
| 1805 | 256857 | 4085003 | 0.000545765 | 8.31E-05 | 4.50E-05 |
| 1806 | 256858.7 | 4085048 | 0.000599259 | 9.13E-05 | 4.94E-05 |
| 1807 | 256860.3 | 4085092 | 0.000640751 | 9.76E-05 | 5.28E-05 |
| 1808 | 256862 | 4085137 | 0.000671277 | 1.02E-04 | 5.53E-05 |
| 1809 | 256863.6 | 4085182 | 0.000698099 | 1.06E-04 | 5.75E-05 |
| 1810 | 256664 | 4084968 | 0.000388541 | 5.92E-05 | 3.20E-05 |
| 1811 | 256679.4 | 4084926 | 0.000356088 | 5.42E-05 | 2.94E-05 |
| 1812 | 256694.8 | 4084884 | 0.000326155 | 4.97E-05 | 2.69E-05 |
| 1813 | 256710.2 | 4084843 | 0.000301408 | 4.59E-05 | 2.48E-05 |
| 1814 | 256725.6 | 4084801 | 0.000281551 | 4.29E-05 | 2.32E-05 |
| 1815 | 256741 | 4084760 | 0.000264806 | 4.03E-05 | 2.18E-05 |
| 1816 | 256756.4 | 4084718 | 0.000248802 | 3.79E-05 | 2.05E-05 |
| 1817 | 256771.8 | 4084677 | 0.000232354 | 3.54E-05 | 1.92E-05 |
| 1818 | 256787.2 | 4084635 | 0.000215905 | 3.29E-05 | 1.78E-05 |
| 1819 | 256802.6 | 4084593 | 0.000200642 | 3.06E-05 | 1.65E-05 |
| 1820 | 256818 | 4084552 | 0.000188047 | 2.86E-05 | 1.55E-05 |
| 1821 | 256833.4 | 4084510 | 0.000178118 | 2.71E-05 | 1.47E-05 |
| 1822 | 256848.8 | 4084469 | 0.000170264 | 2.59E-05 | 1.40E-05 |
| 1823 | 256864.2 | 4084427 | 0.000163448 | 2.49E-05 | 1.35E-05 |
| 1824 | 256879.6 | 4084386 | 0.000157224 | 2.40E-05 | 1.30E-05 |
| 1825 | 256915.1 | 4084335 | 0.000152334 | 2.32E-05 | 1.26E-05 |

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| 1826 | 256955.3 | 4084316 | 0.00015426 | 2.35E-05 | 1.27E-05 |
| 1827 | 256995.6 | 4084298 | 0.00015678 | 2.39E-05 | 1.29E-05 |
| 1828 | 257035.8 | 4084279 | 0.000159743 | 2.43E-05 | 1.32E-05 |
| 1829 | 257076.1 | 4084260 | 0.000162707 | 2.48E-05 | 1.34E-05 |
| 1830 | 257116.3 | 4084242 | 0.000164633 | 2.51E-05 | 1.36E-05 |
| 1831 | 257156.6 | 4084223 | 0.000165226 | 2.52E-05 | 1.36E-05 |
| 1832 | 257196.8 | 4084205 | 0.000164485 | 2.51E-05 | 1.36E-05 |
| 1833 | 257237.1 | 4084186 | 0.000162411 | 2.47E-05 | 1.34E-05 |
| 1834 | 257277.3 | 4084167 | 0.000159743 | 2.43E-05 | 1.32E-05 |
| 1835 | 257317.5 | 4084149 | 0.000157076 | 2.39E-05 | 1.29E-05 |
| 1836 | 257357.8 | 4084130 | 0.00015515 | 2.36E-05 | 1.28E-05 |
| 1837 | 257398 | 4084112 | 0.000154409 | 2.35E-05 | 1.27E-05 |
| 1838 | 257438.3 | 4084093 | 0.000154853 | 2.36E-05 | 1.28E-05 |
| 1839 | 257478.5 | 4084074 | 0.000156483 | 2.38E-05 | 1.29E-05 |
| 1840 | 256657.2 | 4085011 | 0.000422475 | 6.44E-05 | 3.48E-05 |
| 1841 | 256658.8 | 4085055 | 0.000454335 | 6.92E-05 | 3.75E-05 |
| 1842 | 256660.5 | 4085100 | 0.000476859 | 7.26E-05 | 3.93E-05 |
| 1843 | 256662.1 | 4085144 | 0.000492122 | 7.50E-05 | 4.06E-05 |
| 1844 | 256663 | 4085167 | 0.000498494 | 7.59E-05 | 4.11E-05 |
| 1845 | 256464.2 | 4084975 | 0.000322154 | 4.91E-05 | 2.66E-05 |
| 1846 | 256479.5 | 4084934 | 0.000298444 | 4.55E-05 | 2.46E-05 |
| 1847 | 256494.9 | 4084892 | 0.000275624 | 4.20E-05 | 2.27E-05 |
| 1848 | 256510.2 | 4084851 | 0.000255471 | 3.89E-05 | 2.11E-05 |
| 1849 | 256525.6 | 4084809 | 0.000239319 | 3.65E-05 | 1.97E-05 |
| 1850 | 256540.9 | 4084768 | 0.000226575 | 3.45E-05 | 1.87E-05 |
| 1851 | 256556.3 | 4084726 | 0.000215905 | 3.29E-05 | 1.78E-05 |
| 1852 | 256571.6 | 4084685 | 0.000205829 | 3.14E-05 | 1.70E-05 |
| 1853 | 256587 | 4084643 | 0.000194863 | 2.97E-05 | 1.61E-05 |
| 1854 | 256602.3 | 4084602 | 0.000182712 | 2.78E-05 | 1.51E-05 |
| 1855 | 256617.7 | 4084561 | 0.000169968 | 2.59E-05 | 1.40E-05 |
| 1856 | 256633 | 4084519 | 0.000157817 | 2.40E-05 | 1.30E-05 |
| 1857 | 256648.4 | 4084478 | 0.000147444 | 2.25E-05 | 1.22E-05 |
| 1858 | 256663.7 | 4084436 | 0.000139738 | 2.13E-05 | 1.15E-05 |
| 1859 | 256679.1 | 4084395 | 0.000134255 | 2.05E-05 | 1.11E-05 |
| 1860 | 256694.4 | 4084353 | 0.000130403 | 1.99E-05 | 1.07E-05 |
| 1861 | 256709.8 | 4084312 | 0.000127439 | 1.94E-05 | 1.05E-05 |
| 1862 | 256725.1 | 4084270 | 0.000124772 | 1.90E-05 | 1.03E-05 |
| 1863 | 256740.5 | 4084229 | 0.000122104 | 1.86E-05 | 1.01E-05 |
| 1864 | 256768.2 | 4084199 | 0.00012166 | 1.85E-05 | 1.00E-05 |
| 1865 | 256808.3 | 4084180 | 0.000122993 | 1.87E-05 | 1.01E-05 |
| 1866 | 256848.5 | 4084162 | 0.000124623 | 1.90E-05 | 1.03E-05 |
| 1867 | 256888.6 | 4084143 | 0.000126254 | 1.92E-05 | 1.04E-05 |
| 1868 | 256928.7 | 4084125 | 0.000128032 | 1.95E-05 | 1.06E-05 |
| 1869 | 256968.8 | 4084106 | 0.000129217 | 1.97E-05 | 1.07E-05 |
| 1870 | 257009 | 4084088 | 0.000129662 | 1.98E-05 | 1.07E-05 |
| 1871 | 257049.1 | 4084069 | 0.000129217 | 1.97E-05 | 1.07E-05 |
| 1872 | 257089.2 | 4084051 | 0.000128032 | 1.95E-05 | 1.06E-05 |

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| 1873 | 257129.3 | 4084032 | 0.000126254 | 1.92E-05 | 1.04E-05 |
| 1874 | 257169.5 | 4084014 | 0.000124327 | 1.89E-05 | 1.02E-05 |
| 1875 | 257209.6 | 4083995 | 0.000122401 | 1.86E-05 | 1.01E-05 |
| 1876 | 257249.7 | 4083977 | 0.000120771 | 1.84E-05 | 9.96E-06 |
| 1877 | 257289.9 | 4083958 | 0.000119733 | 1.82E-05 | 9.87E-06 |
| 1878 | 257330 | 4083939 | 0.000119141 | 1.82E-05 | 9.82E-06 |
| 1879 | 257370.1 | 4083921 | 0.000119141 | 1.82E-05 | 9.82E-06 |
| 1880 | 257410.2 | 4083902 | 0.000119437 | 1.82E-05 | 9.85E-06 |
| 1881 | 257450.4 | 4083884 | 0.00012003 | 1.83E-05 | 9.89E-06 |
| 1882 | 256457.3 | 4085018 | 0.000345271 | 5.26E-05 | 2.85E-05 |
| 1883 | 256459 | 4085063 | 0.000365868 | 5.57E-05 | 3.02E-05 |
| 1884 | 256460.6 | 4085107 | 0.000379353 | 5.78E-05 | 3.13E-05 |
| 1885 | 256462.3 | 4085152 | 0.0003878 | 5.91E-05 | 3.20E-05 |
| 1886 | 256463.9 | 4085196 | 0.000394764 | 6.01E-05 | 3.25E-05 |
| 1887 | 256264.3 | 4084983 | 0.000275624 | 4.20E-05 | 2.27E-05 |
| 1888 | 256279.6 | 4084941 | 0.00025799 | 3.93E-05 | 2.13E-05 |
| 1889 | 256294.9 | 4084900 | 0.000240059 | 3.66E-05 | 1.98E-05 |
| 1890 | 256310.2 | 4084858 | 0.000223611 | 3.41E-05 | 1.84E-05 |
| 1891 | 256325.6 | 4084817 | 0.000209682 | 3.19E-05 | 1.73E-05 |
| 1892 | 256340.9 | 4084776 | 0.000198568 | 3.03E-05 | 1.64E-05 |
| 1893 | 256356.2 | 4084734 | 0.000189825 | 2.89E-05 | 1.56E-05 |
| 1894 | 256371.5 | 4084693 | 0.000182564 | 2.78E-05 | 1.50E-05 |
| 1895 | 256386.8 | 4084652 | 0.000175747 | 2.68E-05 | 1.45E-05 |
| 1896 | 256402.2 | 4084610 | 0.000168338 | 2.56E-05 | 1.39E-05 |
| 1897 | 256417.5 | 4084569 | 0.000159891 | 2.44E-05 | 1.32E-05 |
| 1898 | 256432.8 | 4084527 | 0.000150111 | 2.29E-05 | 1.24E-05 |
| 1899 | 256448.1 | 4084486 | 0.000139442 | 2.12E-05 | 1.15E-05 |
| 1900 | 256463.4 | 4084445 | 0.000129365 | 1.97E-05 | 1.07E-05 |
| 1901 | 256478.7 | 4084403 | 0.000120771 | 1.84E-05 | 9.96E-06 |
| 1902 | 256494.1 | 4084362 | 0.000114102 | 1.74E-05 | 9.41E-06 |
| 1903 | 256509.4 | 4084321 | 0.000109657 | 1.67E-05 | 9.04E-06 |
| 1904 | 256524.7 | 4084279 | 0.000106989 | 1.63E-05 | 8.82E-06 |
| 1905 | 256540 | 4084238 | 0.000105508 | 1.61E-05 | 8.70E-06 |
| 1906 | 256555.3 | 4084197 | 0.000104619 | 1.59E-05 | 8.62E-06 |
| 1907 | 256570.7 | 4084155 | 0.000103878 | 1.58E-05 | 8.56E-06 |
| 1908 | 256586 | 4084114 | 0.000103137 | 1.57E-05 | 8.50E-06 |
| 1909 | 256621.3 | 4084063 | 0.000102396 | 1.56E-05 | 8.44E-06 |
| 1910 | 256661.4 | 4084045 | 0.000103285 | 1.57E-05 | 8.51E-06 |
| 1911 | 256701.4 | 4084026 | 0.000103878 | 1.58E-05 | 8.56E-06 |
| 1912 | 256741.5 | 4084008 | 0.00010447 | 1.59E-05 | 8.61E-06 |
| 1913 | 256781.5 | 4083989 | 0.000105063 | 1.60E-05 | 8.66E-06 |
| 1914 | 256821.6 | 4083971 | 0.000105508 | 1.61E-05 | 8.70E-06 |
| 1915 | 256861.6 | 4083952 | 0.000105656 | 1.61E-05 | 8.71E-06 |
| 1916 | 256901.6 | 4083934 | 0.000105508 | 1.61E-05 | 8.70E-06 |
| 1917 | 256941.7 | 4083915 | 0.000104915 | 1.60E-05 | 8.65E-06 |
| 1918 | 256981.7 | 4083897 | 0.000104026 | 1.58E-05 | 8.57E-06 |
| 1919 | 257021.8 | 4083878 | 0.000102988 | 1.57E-05 | 8.49E-06 |

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| 1920 | 257061.8 | 4083860 | 0.000101951 | 1.55E-05 | 8.40E-06 |
| 1921 | 257101.9 | 4083841 | 0.000101062 | 1.54E-05 | 8.33E-06 |
| 1922 | 257141.9 | 4083823 | 0.000100173 | 1.53E-05 | 8.26E-06 |
| 1923 | 257182 | 4083804 | 9.92838E-05 | 1.51E-05 | 8.18E-06 |
| 1924 | 257222 | 4083786 | 9.83947E-05 | 1.50E-05 | 8.11E-06 |
| 1925 | 257262.1 | 4083767 | 9.76538E-05 | 1.49E-05 | 8.05E-06 |
| 1926 | 257302.1 | 4083749 | 9.69129E-05 | 1.48E-05 | 7.99E-06 |
| 1927 | 257342.2 | 4083730 | 9.6172E-05 | 1.47E-05 | 7.93E-06 |
| 1928 | 257382.2 | 4083712 | 9.55792E-05 | 1.46E-05 | 7.88E-06 |
| 1929 | 257422.2 | 4083693 | 9.51347E-05 | 1.45E-05 | 7.84E-06 |
| 1930 | 257462.3 | 4083675 | 9.48383E-05 | 1.44E-05 | 7.82E-06 |
| 1931 | 256257.5 | 4085025 | 0.00029222 | 4.45E-05 | 2.41E-05 |
| 1932 | 256259.1 | 4085070 | 0.000306298 | 4.67E-05 | 2.52E-05 |
| 1933 | 256260.8 | 4085115 | 0.000314893 | 4.80E-05 | 2.60E-05 |
| 1934 | 256261.6 | 4085137 | 0.000317708 | 4.84E-05 | 2.62E-05 |
| 1935 | 256263.2 | 4085181 | 0.000321857 | 4.90E-05 | 2.65E-05 |
| 1936 | 256064.4 | 4084990 | 0.000241245 | 3.68E-05 | 1.99E-05 |
| 1937 | 256079.7 | 4084949 | 0.000228205 | 3.48E-05 | 1.88E-05 |
| 1938 | 256095 | 4084907 | 0.000213979 | 3.26E-05 | 1.76E-05 |
| 1939 | 256110.3 | 4084866 | 0.000200346 | 3.05E-05 | 1.65E-05 |
| 1940 | 256125.6 | 4084825 | 0.000188195 | 2.87E-05 | 1.55E-05 |
| 1941 | 256140.9 | 4084783 | 0.000178118 | 2.71E-05 | 1.47E-05 |
| 1942 | 256156.2 | 4084742 | 0.000170116 | 2.59E-05 | 1.40E-05 |
| 1943 | 256171.5 | 4084701 | 0.000163744 | 2.49E-05 | 1.35E-05 |
| 1944 | 256186.8 | 4084660 | 0.00015841 | 2.41E-05 | 1.31E-05 |
| 1945 | 256202.1 | 4084618 | 0.00015352 | 2.34E-05 | 1.27E-05 |
| 1946 | 256217.4 | 4084577 | 0.000148333 | 2.26E-05 | 1.22E-05 |
| 1947 | 256232.7 | 4084536 | 0.000142406 | 2.17E-05 | 1.17E-05 |
| 1948 | 256248 | 4084494 | 0.000135145 | 2.06E-05 | 1.11E-05 |
| 1949 | 256263.3 | 4084453 | 0.00012655 | 1.93E-05 | 1.04E-05 |
| 1950 | 256278.6 | 4084412 | 0.000117955 | 1.80E-05 | 9.72E-06 |
| 1951 | 256293.9 | 4084370 | 0.00010936 | 1.67E-05 | 9.01E-06 |
| 1952 | 256309.2 | 4084329 | 0.000101951 | 1.55E-05 | 8.40E-06 |
| 1953 | 256324.4 | 4084288 | 9.6172E-05 | 1.47E-05 | 7.93E-06 |
| 1954 | 256339.7 | 4084246 | 9.2171E-05 | 1.40E-05 | 7.60E-06 |
| 1955 | 256355 | 4084205 | 0.0000898 | 1.37E-05 | 7.40E-06 |
| 1956 | 256370.3 | 4084164 | 8.89109E-05 | 1.35E-05 | 7.33E-06 |
| 1957 | 256385.6 | 4084123 | 8.89109E-05 | 1.35E-05 | 7.33E-06 |
| 1958 | 256400.9 | 4084081 | 8.93554E-05 | 1.36E-05 | 7.37E-06 |
| 1959 | 256416.2 | 4084040 | 8.96518E-05 | 1.37E-05 | 7.39E-06 |
| 1960 | 256431.5 | 4083999 | 0.0000898 | 1.37E-05 | 7.40E-06 |
| 1961 | 256446.8 | 4083957 | 8.92073E-05 | 1.36E-05 | 7.35E-06 |
| 1962 | 256474.5 | 4083927 | 8.90591E-05 | 1.36E-05 | 7.34E-06 |
| 1963 | 256514.4 | 4083909 | 8.93554E-05 | 1.36E-05 | 7.37E-06 |
| 1964 | 256554.4 | 4083890 | 8.93554E-05 | 1.36E-05 | 7.37E-06 |
| 1965 | 256594.4 | 4083872 | 8.90591E-05 | 1.36E-05 | 7.34E-06 |
| 1966 | 256634.4 | 4083854 | 8.87627E-05 | 1.35E-05 | 7.32E-06 |

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| 1967 | 256674.4 | 4083835 | 8.86145E-05 | 1.35E-05 | 7.30E-06 |
| 1968 | 256714.4 | 4083817 | 8.84663E-05 | 1.35E-05 | 7.29E-06 |
| 1969 | 256754.4 | 4083798 | 8.83182E-05 | 1.35E-05 | 7.28E-06 |
| 1970 | 256794.4 | 4083780 | 8.80218E-05 | 1.34E-05 | 7.26E-06 |
| 1971 | 256834.3 | 4083761 | 8.77254E-05 | 1.34E-05 | 7.23E-06 |
| 1972 | 256874.3 | 4083743 | 8.75772E-05 | 1.33E-05 | 7.22E-06 |
| 1973 | 256914.3 | 4083724 | 8.72809E-05 | 1.33E-05 | 7.19E-06 |
| 1974 | 256954.3 | 4083706 | 8.69845E-05 | 1.33E-05 | 7.17E-06 |
| 1975 | 256994.3 | 4083687 | 8.66881E-05 | 1.32E-05 | 7.15E-06 |
| 1976 | 257034.3 | 4083669 | 8.62436E-05 | 1.31E-05 | 7.11E-06 |
| 1977 | 257074.3 | 4083650 | 8.56508E-05 | 1.30E-05 | 7.06E-06 |
| 1978 | 257114.2 | 4083632 | 8.49099E-05 | 1.29E-05 | 7.00E-06 |
| 1979 | 257154.2 | 4083613 | 8.40208E-05 | 1.28E-05 | 6.93E-06 |
| 1980 | 257194.2 | 4083595 | 8.28353E-05 | 1.26E-05 | 6.83E-06 |
| 1981 | 257234.2 | 4083576 | 8.15017E-05 | 1.24E-05 | 6.72E-06 |
| 1982 | 257274.2 | 4083558 | 8.0168E-05 | 1.22E-05 | 6.61E-06 |
| 1983 | 257314.2 | 4083539 | 7.88343E-05 | 1.20E-05 | 6.50E-06 |
| 1984 | 257354.2 | 4083521 | 7.7797E-05 | 1.19E-05 | 6.41E-06 |
| 1985 | 257394.2 | 4083503 | 7.70561E-05 | 1.17E-05 | 6.35E-06 |
| 1986 | 257434.1 | 4083484 | 7.67597E-05 | 1.17E-05 | 6.33E-06 |
| 1987 | 256057.6 | 4085033 | 0.000253396 | 3.86E-05 | 2.09E-05 |
| 1988 | 256059.2 | 4085077 | 0.000263473 | 4.01E-05 | 2.17E-05 |
| 1989 | 256060.9 | 4085122 | 0.000269252 | 4.10E-05 | 2.22E-05 |
| 1990 | 256062.5 | 4085167 | 0.000272216 | 4.15E-05 | 2.24E-05 |
| 1991 | 256064.2 | 4085211 | 0.000274438 | 4.18E-05 | 2.26E-05 |
| 1992 | 257564.3 | 4085181 | 0.03305455 | 5.04E-03 | 2.72E-03 |
| 1993 | 257588.6 | 4085180 | 0.03897439 | 5.94E-03 | 3.21E-03 |
| 1994 | 257612.8 | 4085178 | 0.04249244 | 6.47E-03 | 3.50E-03 |
| 1995 | 257637.1 | 4085177 | 0.04466468 | 6.80E-03 | 3.68E-03 |
| 1996 | 257661.4 | 4085176 | 0.04612401 | 7.03E-03 | 3.80E-03 |
| 1997 | 257685.7 | 4085175 | 0.04715004 | 7.18E-03 | 3.89E-03 |
| 1998 | 257710 | 4085174 | 0.04791067 | 7.30E-03 | 3.95E-03 |
| 1999 | 257734.2 | 4085173 | 0.0484677 | 7.38E-03 | 4.00E-03 |
| 2000 | 257758.5 | 4085172 | 0.04888128 | 7.45E-03 | 4.03E-03 |
| 2001 | 257782.8 | 4085171 | 0.04918032 | 7.49E-03 | 4.05E-03 |
| 2002 | 257807.1 | 4085170 | 0.04940378 | 7.53E-03 | 4.07E-03 |
| 2003 | 257831.4 | 4085169 | 0.0495407 | 7.55E-03 | 4.08E-03 |
| 2004 | 257855.7 | 4085168 | 0.04963539 | 7.56E-03 | 4.09E-03 |
| 2005 | 257879.9 | 4085167 | 0.04968059 | 7.57E-03 | 4.10E-03 |
| 2006 | 257904.2 | 4085166 | 0.04967007 | 7.57E-03 | 4.09E-03 |
| 2007 | 257928.5 | 4085164 | 0.04962576 | 7.56E-03 | 4.09E-03 |
| 2008 | 257952.8 | 4085163 | 0.04953107 | 7.55E-03 | 4.08E-03 |
| 2009 | 257977.1 | 4085162 | 0.04938526 | 7.52E-03 | 4.07E-03 |
| 2010 | 258001.3 | 4085161 | 0.0491984 | 7.50E-03 | 4.06E-03 |
| 2011 | 258025.6 | 4085160 | 0.0489696 | 7.46E-03 | 4.04E-03 |
| 2012 | 258049.9 | 4085159 | 0.04867886 | 7.42E-03 | 4.01E-03 |
| 2013 | 258074.2 | 4085158 | 0.04829269 | 7.36E-03 | 3.98E-03 |

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| 2014 | 258098.5 | 4085157 | 0.04703386 | 7.17E-03 | 3.88E-03 |
| 2015 | 258122.8 | 4085156 | 0.04641104 | 7.07E-03 | 3.83E-03 |
| 2016 | 258147 | 4085155 | 0.04568434 | 6.96E-03 | 3.77E-03 |
| 2017 | 258171.3 | 4085154 | 0.04477701 | 6.82E-03 | 3.69E-03 |
| 2018 | 258195.6 | 4085153 | 0.04360353 | 6.64E-03 | 3.59E-03 |
| 2019 | 258219.9 | 4085152 | 0.04208449 | 6.41E-03 | 3.47E-03 |
| 2020 | 258244.2 | 4085150 | 0.04011244 | 6.11E-03 | 3.31E-03 |
| 2021 | 258268.4 | 4085149 | 0.03747505 | 5.71E-03 | 3.09E-03 |
| 2022 | 258292.7 | 4085148 | 0.03387846 | 5.16E-03 | 2.79E-03 |
| 2023 | 258317 | 4085147 | 0.02892479 | 4.41E-03 | 2.38E-03 |
| 2024 | 258341.3 | 4085146 | 0.02252602 | 3.43E-03 | 1.86E-03 |
| 2025 | 258365.6 | 4085145 | 0.01621142 | 2.47E-03 | 1.34E-03 |
| 2026 | 257547.3 | 4085199 | 0.02288996 | 3.49E-03 | 1.89E-03 |
| 2027 | 257589.7 | 4085204 | 0.02662022 | 4.06E-03 | 2.19E-03 |
| 2028 | 257613.9 | 4085203 | 0.0286013 | 4.36E-03 | 2.36E-03 |
| 2029 | 257638.2 | 4085202 | 0.02999542 | 4.57E-03 | 2.47E-03 |
| 2030 | 257662.5 | 4085201 | 0.03099834 | 4.72E-03 | 2.56E-03 |
| 2031 | 257686.8 | 4085200 | 0.03174815 | 4.84E-03 | 2.62E-03 |
| 2032 | 257711.1 | 4085199 | 0.03231363 | 4.92E-03 | 2.66E-03 |
| 2033 | 257735.4 | 4085198 | 0.03275166 | 4.99E-03 | 2.70E-03 |
| 2034 | 257759.6 | 4085197 | 0.03308582 | 5.04E-03 | 2.73E-03 |
| 2035 | 257783.9 | 4085196 | 0.03334529 | 5.08E-03 | 2.75E-03 |
| 2036 | 257808.2 | 4085195 | 0.033536 | 5.11E-03 | 2.76E-03 |
| 2037 | 257832.5 | 4085194 | 0.03367559 | 5.13E-03 | 2.78E-03 |
| 2038 | 257856.8 | 4085193 | 0.03376213 | 5.14E-03 | 2.78E-03 |
| 2039 | 257881 | 4085192 | 0.03380718 | 5.15E-03 | 2.79E-03 |
| 2040 | 257905.3 | 4085190 | 0.03380733 | 5.15E-03 | 2.79E-03 |
| 2041 | 257929.6 | 4085189 | 0.03375931 | 5.14E-03 | 2.78E-03 |
| 2042 | 257953.9 | 4085188 | 0.03367248 | 5.13E-03 | 2.78E-03 |
| 2043 | 257978.2 | 4085187 | 0.03312271 | 5.05E-03 | 2.73E-03 |
| 2044 | 258002.5 | 4085186 | 0.03293393 | 5.02E-03 | 2.71E-03 |
| 2045 | 258026.7 | 4085185 | 0.03269535 | 4.98E-03 | 2.70E-03 |
| 2046 | 258051 | 4085184 | 0.03239543 | 4.94E-03 | 2.67E-03 |
| 2047 | 258075.3 | 4085183 | 0.03201488 | 4.88E-03 | 2.64E-03 |
| 2048 | 258099.6 | 4085182 | 0.03154736 | 4.81E-03 | 2.60E-03 |
| 2049 | 258123.9 | 4085181 | 0.03096633 | 4.72E-03 | 2.55E-03 |
| 2050 | 258148.1 | 4085180 | 0.0302546 | 4.61E-03 | 2.49E-03 |
| 2051 | 258172.4 | 4085179 | 0.02937497 | 4.48E-03 | 2.42E-03 |
| 2052 | 258196.7 | 4085178 | 0.0282784 | 4.31E-03 | 2.33E-03 |
| 2053 | 258221 | 4085177 | 0.02691377 | 4.10E-03 | 2.22E-03 |
| 2054 | 258245.3 | 4085175 | 0.02519927 | 3.84E-03 | 2.08E-03 |
| 2055 | 258269.6 | 4085174 | 0.02306956 | 3.51E-03 | 1.90E-03 |
| 2056 | 258293.8 | 4085173 | 0.02046151 | 3.12E-03 | 1.69E-03 |
| 2057 | 258318.1 | 4085172 | 0.01739423 | 2.65E-03 | 1.43E-03 |
| 2058 | 258342.4 | 4085171 | 0.01411327 | 2.15E-03 | 1.16E-03 |
| 2059 | 257548.4 | 4085224 | 0.01824096 | 2.78E-03 | 1.50E-03 |
| 2060 | 257504.3 | 4085193 | 0.01635071 | 2.49E-03 | 1.35E-03 |

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|---|---|---|---|---|---|
| 2061 | 257590.8 | 4085229 | 0.02024694 | 3.08E-03 | 1.67E-03 |
| 2062 | 257615 | 4085228 | 0.02150814 | 3.28E-03 | 1.77E-03 |
| 2063 | 257639.3 | 4085227 | 0.02247297 | 3.42E-03 | 1.85E-03 |
| 2064 | 257663.6 | 4085226 | 0.02320767 | 3.54E-03 | 1.91E-03 |
| 2065 | 257687.9 | 4085225 | 0.0237687 | 3.62E-03 | 1.96E-03 |
| 2066 | 257712.2 | 4085224 | 0.02420392 | 3.69E-03 | 2.00E-03 |
| 2067 | 257736.5 | 4085223 | 0.02453955 | 3.74E-03 | 2.02E-03 |
| 2068 | 257760.7 | 4085222 | 0.02480199 | 3.78E-03 | 2.04E-03 |
| 2069 | 257785 | 4085221 | 0.02500026 | 3.81E-03 | 2.06E-03 |
| 2070 | 257809.3 | 4085220 | 0.02514859 | 3.83E-03 | 2.07E-03 |
| 2071 | 257833.6 | 4085219 | 0.02524788 | 3.85E-03 | 2.08E-03 |
| 2072 | 257857.9 | 4085218 | 0.02530967 | 3.86E-03 | 2.09E-03 |
| 2073 | 257882.1 | 4085217 | 0.02532834 | 3.86E-03 | 2.09E-03 |
| 2074 | 257906.4 | 4085215 | 0.02521483 | 3.84E-03 | 2.08E-03 |
| 2075 | 257930.7 | 4085214 | 0.02498411 | 3.81E-03 | 2.06E-03 |
| 2076 | 257955 | 4085213 | 0.02488245 | 3.79E-03 | 2.05E-03 |
| 2077 | 257979.3 | 4085212 | 0.02473857 | 3.77E-03 | 2.04E-03 |
| 2078 | 258003.6 | 4085211 | 0.02454341 | 3.74E-03 | 2.02E-03 |
| 2079 | 258027.8 | 4085210 | 0.02429594 | 3.70E-03 | 2.00E-03 |
| 2080 | 258052.1 | 4085209 | 0.02398371 | 3.65E-03 | 1.98E-03 |
| 2081 | 258076.4 | 4085208 | 0.02360303 | 3.60E-03 | 1.95E-03 |
| 2082 | 258100.7 | 4085207 | 0.02313654 | 3.52E-03 | 1.91E-03 |
| 2083 | 258125 | 4085206 | 0.02257551 | 3.44E-03 | 1.86E-03 |
| 2084 | 258149.2 | 4085205 | 0.02189697 | 3.34E-03 | 1.80E-03 |
| 2085 | 258173.5 | 4085204 | 0.02108255 | 3.21E-03 | 1.74E-03 |
| 2086 | 258197.8 | 4085203 | 0.02010157 | 3.06E-03 | 1.66E-03 |
| 2087 | 258222.1 | 4085201 | 0.0189235 | 2.88E-03 | 1.56E-03 |
| 2088 | 258246.4 | 4085200 | 0.01752982 | 2.67E-03 | 1.44E-03 |
| 2089 | 258270.7 | 4085199 | 0.01590734 | 2.42E-03 | 1.31E-03 |
| 2090 | 258294.9 | 4085198 | 0.01407682 | 2.14E-03 | 1.16E-03 |
| 2091 | 258319.2 | 4085197 | 0.01211277 | 1.85E-03 | 9.98E-04 |
| 2092 | 258343.5 | 4085196 | 0.01017096 | 1.55E-03 | 8.38E-04 |
| 2093 | 258367.8 | 4085195 | 0.008433791 | 1.28E-03 | 6.95E-04 |
| 2094 | 257549.5 | 4085249 | 0.01505498 | 2.29E-03 | 1.24E-03 |
| 2095 | 257513.4 | 4085236 | 0.01390922 | 2.12E-03 | 1.15E-03 |
| 2096 | 257487.3 | 4085212 | 0.01315081 | 2.00E-03 | 1.08E-03 |
| 2097 | 257471.3 | 4085177 | 0.01226452 | 1.87E-03 | 1.01E-03 |
| 2098 | 257591.9 | 4085254 | 0.01630537 | 2.48E-03 | 1.34E-03 |
| 2099 | 257616.2 | 4085253 | 0.01717344 | 2.62E-03 | 1.42E-03 |
| 2100 | 257640.4 | 4085252 | 0.01786753 | 2.72E-03 | 1.47E-03 |
| 2101 | 257664.7 | 4085251 | 0.01841952 | 2.81E-03 | 1.52E-03 |
| 2102 | 257689 | 4085250 | 0.01885429 | 2.87E-03 | 1.55E-03 |
| 2103 | 257713.3 | 4085249 | 0.01919245 | 2.92E-03 | 1.58E-03 |
| 2104 | 257737.6 | 4085248 | 0.01945607 | 2.96E-03 | 1.60E-03 |
| 2105 | 257761.8 | 4085247 | 0.01965686 | 2.99E-03 | 1.62E-03 |
| 2106 | 257786.1 | 4085246 | 0.01980861 | 3.02E-03 | 1.63E-03 |
| 2107 | 257810.4 | 4085245 | 0.01991456 | 3.03E-03 | 1.64E-03 |

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|---|---|---|---|---|---|
| 2108 | 257834.7 | 4085244 | 0.01998228 | 3.04E-03 | 1.65E-03 |
| 2109 | 257859 | 4085243 | 0.02001058 | 3.05E-03 | 1.65E-03 |
| 2110 | 257883.3 | 4085242 | 0.01987544 | 3.03E-03 | 1.64E-03 |
| 2111 | 257907.5 | 4085240 | 0.0197683 | 3.01E-03 | 1.63E-03 |
| 2112 | 257931.8 | 4085239 | 0.01968902 | 3.00E-03 | 1.62E-03 |
| 2113 | 257956.1 | 4085238 | 0.01957092 | 2.98E-03 | 1.61E-03 |
| 2114 | 257980.4 | 4085237 | 0.0194088 | 2.96E-03 | 1.60E-03 |
| 2115 | 258004.7 | 4085236 | 0.01920312 | 2.93E-03 | 1.58E-03 |
| 2116 | 258028.9 | 4085235 | 0.01894498 | 2.89E-03 | 1.56E-03 |
| 2117 | 258053.2 | 4085234 | 0.01863246 | 2.84E-03 | 1.54E-03 |
| 2118 | 258077.5 | 4085233 | 0.01825548 | 2.78E-03 | 1.50E-03 |
| 2119 | 258101.8 | 4085232 | 0.01780945 | 2.71E-03 | 1.47E-03 |
| 2120 | 258126.1 | 4085231 | 0.01728013 | 2.63E-03 | 1.42E-03 |
| 2121 | 258150.4 | 4085230 | 0.01665997 | 2.54E-03 | 1.37E-03 |
| 2122 | 258174.6 | 4085229 | 0.01593165 | 2.43E-03 | 1.31E-03 |
| 2123 | 258198.9 | 4085228 | 0.01508581 | 2.30E-03 | 1.24E-03 |
| 2124 | 258223.2 | 4085226 | 0.01411134 | 2.15E-03 | 1.16E-03 |
| 2125 | 258247.5 | 4085225 | 0.01300574 | 1.98E-03 | 1.07E-03 |
| 2126 | 258271.8 | 4085224 | 0.01178336 | 1.80E-03 | 9.71E-04 |
| 2127 | 258296 | 4085223 | 0.01047518 | 1.60E-03 | 8.63E-04 |
| 2128 | 258320.3 | 4085222 | 0.009150413 | 1.39E-03 | 7.54E-04 |
| 2129 | 258344.6 | 4085221 | 0.007872022 | 1.20E-03 | 6.49E-04 |
| 2130 | 257548.1 | 4085298 | 0.01099591 | 1.68E-03 | 9.06E-04 |
| 2131 | 257526.5 | 4085290 | 0.01080015 | 1.65E-03 | 8.90E-04 |
| 2132 | 257504.8 | 4085282 | 0.01044184 | 1.59E-03 | 8.61E-04 |
| 2133 | 257483.2 | 4085274 | 0.009902154 | 1.51E-03 | 8.16E-04 |
| 2134 | 257451.9 | 4085245 | 0.009311489 | 1.42E-03 | 7.68E-04 |
| 2135 | 257442.2 | 4085224 | 0.009137075 | 1.39E-03 | 7.53E-04 |
| 2136 | 257432.6 | 4085203 | 0.008648955 | 1.32E-03 | 7.13E-04 |
| 2137 | 257422.9 | 4085182 | 0.007924924 | 1.21E-03 | 6.53E-04 |
| 2138 | 257569.8 | 4085305 | 0.01104466 | 1.68E-03 | 9.10E-04 |
| 2139 | 257594.1 | 4085304 | 0.0116088 | 1.77E-03 | 9.57E-04 |
| 2140 | 257618.4 | 4085303 | 0.0120778 | 1.84E-03 | 9.96E-04 |
| 2141 | 257642.6 | 4085302 | 0.01246531 | 1.90E-03 | 1.03E-03 |
| 2142 | 257666.9 | 4085301 | 0.01278939 | 1.95E-03 | 1.05E-03 |
| 2143 | 257691.2 | 4085300 | 0.01305345 | 1.99E-03 | 1.08E-03 |
| 2144 | 257715.5 | 4085299 | 0.01326195 | 2.02E-03 | 1.09E-03 |
| 2145 | 257739.8 | 4085298 | 0.01341977 | 2.04E-03 | 1.11E-03 |
| 2146 | 257764.1 | 4085297 | 0.01353179 | 2.06E-03 | 1.12E-03 |
| 2147 | 257788.3 | 4085296 | 0.01358899 | 2.07E-03 | 1.12E-03 |
| 2148 | 257812.6 | 4085295 | 0.01356943 | 2.07E-03 | 1.12E-03 |
| 2149 | 257836.9 | 4085294 | 0.01357269 | 2.07E-03 | 1.12E-03 |
| 2150 | 257861.2 | 4085293 | 0.01351623 | 2.06E-03 | 1.11E-03 |
| 2151 | 257885.5 | 4085291 | 0.01346378 | 2.05E-03 | 1.11E-03 |
| 2152 | 257909.7 | 4085290 | 0.0133805 | 2.04E-03 | 1.10E-03 |
| 2153 | 257934 | 4085289 | 0.01326758 | 2.02E-03 | 1.09E-03 |
| 2154 | 257958.3 | 4085288 | 0.01312177 | 2.00E-03 | 1.08E-03 |

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|---|---|---|---|---|---|
| 2155 | 257982.6 | 4085287 | 0.01294379 | 1.97E-03 | 1.07E-03 |
| 2156 | 258006.9 | 4085286 | 0.01273056 | 1.94E-03 | 1.05E-03 |
| 2157 | 258031.2 | 4085285 | 0.01247938 | 1.90E-03 | 1.03E-03 |
| 2158 | 258055.4 | 4085284 | 0.01218939 | 1.86E-03 | 1.00E-03 |
| 2159 | 258079.7 | 4085283 | 0.01185582 | 1.81E-03 | 9.77E-04 |
| 2160 | 258104 | 4085282 | 0.01147751 | 1.75E-03 | 9.46E-04 |
| 2161 | 258128.3 | 4085281 | 0.01104881 | 1.68E-03 | 9.11E-04 |
| 2162 | 258152.6 | 4085280 | 0.01056765 | 1.61E-03 | 8.71E-04 |
| 2163 | 258176.8 | 4085279 | 0.01002915 | 1.53E-03 | 8.27E-04 |
| 2164 | 258201.1 | 4085277 | 0.009433742 | 1.44E-03 | 7.78E-04 |
| 2165 | 258225.4 | 4085276 | 0.008783062 | 1.34E-03 | 7.24E-04 |
| 2166 | 258249.7 | 4085275 | 0.008090447 | 1.23E-03 | 6.67E-04 |
| 2167 | 258274 | 4085274 | 0.00737501 | 1.12E-03 | 6.08E-04 |
| 2168 | 258298.3 | 4085273 | 0.00665987 | 1.01E-03 | 5.49E-04 |
| 2169 | 258322.5 | 4085272 | 0.005959104 | 9.08E-04 | 4.91E-04 |
| 2170 | 258346.8 | 4085271 | 0.005287975 | 8.06E-04 | 4.36E-04 |
| 2171 | 258371.1 | 4085270 | 0.004678639 | 7.13E-04 | 3.86E-04 |
| 2172 | 257551.4 | 4085348 | 0.008536631 | 1.30E-03 | 7.04E-04 |
| 2173 | 257510.1 | 4085333 | 0.008362366 | 1.27E-03 | 6.89E-04 |
| 2174 | 257468.9 | 4085318 | 0.007872911 | 1.20E-03 | 6.49E-04 |
| 2175 | 257418.4 | 4085283 | 0.007106499 | 1.08E-03 | 5.86E-04 |
| 2176 | 257400 | 4085243 | 0.006804646 | 1.04E-03 | 5.61E-04 |
| 2177 | 257381.7 | 4085203 | 0.005921317 | 9.02E-04 | 4.88E-04 |
| 2178 | 257596.3 | 4085354 | 0.008848708 | 1.35E-03 | 7.29E-04 |
| 2179 | 257620.6 | 4085353 | 0.009124183 | 1.39E-03 | 7.52E-04 |
| 2180 | 257644.9 | 4085352 | 0.009350314 | 1.42E-03 | 7.71E-04 |
| 2181 | 257669.1 | 4085351 | 0.00953836 | 1.45E-03 | 7.86E-04 |
| 2182 | 257693.4 | 4085350 | 0.009693066 | 1.48E-03 | 7.99E-04 |
| 2183 | 257717.7 | 4085349 | 0.009815318 | 1.50E-03 | 8.09E-04 |
| 2184 | 257742 | 4085348 | 0.009880964 | 1.51E-03 | 8.14E-04 |
| 2185 | 257766.3 | 4085347 | 0.009890892 | 1.51E-03 | 8.15E-04 |
| 2186 | 257790.6 | 4085346 | 0.009909859 | 1.51E-03 | 8.17E-04 |
| 2187 | 257814.8 | 4085345 | 0.009905563 | 1.51E-03 | 8.17E-04 |
| 2188 | 257839.1 | 4085344 | 0.009875185 | 1.50E-03 | 8.14E-04 |
| 2189 | 257863.4 | 4085343 | 0.009819911 | 1.50E-03 | 8.09E-04 |
| 2190 | 257887.7 | 4085341 | 0.009741521 | 1.48E-03 | 8.03E-04 |
| 2191 | 257912 | 4085340 | 0.00963957 | 1.47E-03 | 7.95E-04 |
| 2192 | 257936.2 | 4085339 | 0.009515095 | 1.45E-03 | 7.84E-04 |
| 2193 | 257960.5 | 4085338 | 0.009367207 | 1.43E-03 | 7.72E-04 |
| 2194 | 257984.8 | 4085337 | 0.009196497 | 1.40E-03 | 7.58E-04 |
| 2195 | 258009.1 | 4085336 | 0.009001635 | 1.37E-03 | 7.42E-04 |
| 2196 | 258033.4 | 4085335 | 0.008783062 | 1.34E-03 | 7.24E-04 |
| 2197 | 258057.7 | 4085334 | 0.008538557 | 1.30E-03 | 7.04E-04 |
| 2198 | 258081.9 | 4085333 | 0.00826812 | 1.26E-03 | 6.82E-04 |
| 2199 | 258106.2 | 4085332 | 0.007969528 | 1.21E-03 | 6.57E-04 |
| 2200 | 258130.5 | 4085331 | 0.007639964 | 1.16E-03 | 6.30E-04 |
| 2201 | 258154.8 | 4085330 | 0.007278838 | 1.11E-03 | 6.00E-04 |

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|---|---|---|---|---|---|
| 2202 | 258179.1 | 4085329 | 0.006885556 | 1.05E-03 | 5.68E-04 |
| 2203 | 258203.3 | 4085327 | 0.006465007 | 9.85E-04 | 5.33E-04 |
| 2204 | 258227.6 | 4085326 | 0.006025936 | 9.18E-04 | 4.97E-04 |
| 2205 | 258251.9 | 4085325 | 0.005581381 | 8.50E-04 | 4.60E-04 |
| 2206 | 258276.2 | 4085324 | 0.005140383 | 7.83E-04 | 4.24E-04 |
| 2207 | 258300.5 | 4085323 | 0.004705757 | 7.17E-04 | 3.88E-04 |
| 2208 | 258324.8 | 4085322 | 0.004279133 | 6.52E-04 | 3.53E-04 |
| 2209 | 258349 | 4085321 | 0.003872365 | 5.90E-04 | 3.19E-04 |
| 2210 | 258373.3 | 4085320 | 0.00349894 | 5.33E-04 | 2.88E-04 |
| 2211 | 257551.7 | 4085397 | 0.006853548 | 1.04E-03 | 5.65E-04 |
| 2212 | 257529.1 | 4085389 | 0.006852214 | 1.04E-03 | 5.65E-04 |
| 2213 | 257506.5 | 4085381 | 0.006800497 | 1.04E-03 | 5.61E-04 |
| 2214 | 257484 | 4085372 | 0.00669662 | 1.02E-03 | 5.52E-04 |
| 2215 | 257461.4 | 4085364 | 0.006531246 | 9.95E-04 | 5.38E-04 |
| 2216 | 257438.8 | 4085356 | 0.006297262 | 9.59E-04 | 5.19E-04 |
| 2217 | 257416.3 | 4085348 | 0.00600193 | 9.14E-04 | 4.95E-04 |
| 2218 | 257383.7 | 4085318 | 0.005690889 | 8.67E-04 | 4.69E-04 |
| 2219 | 257373.6 | 4085296 | 0.005632209 | 8.58E-04 | 4.64E-04 |
| 2220 | 257363.6 | 4085274 | 0.005461648 | 8.32E-04 | 4.50E-04 |
| 2221 | 257353.5 | 4085252 | 0.005171354 | 7.88E-04 | 4.26E-04 |
| 2222 | 257343.5 | 4085230 | 0.004780442 | 7.28E-04 | 3.94E-04 |
| 2223 | 257333.4 | 4085209 | 0.004327885 | 6.59E-04 | 3.57E-04 |
| 2224 | 257323.4 | 4085187 | 0.003853695 | 5.87E-04 | 3.18E-04 |
| 2225 | 257574.2 | 4085405 | 0.006805981 | 1.04E-03 | 5.61E-04 |
| 2226 | 257598.5 | 4085404 | 0.007004844 | 1.07E-03 | 5.77E-04 |
| 2227 | 257622.8 | 4085403 | 0.007170219 | 1.09E-03 | 5.91E-04 |
| 2228 | 257647.1 | 4085402 | 0.007302251 | 1.11E-03 | 6.02E-04 |
| 2229 | 257671.4 | 4085401 | 0.00740687 | 1.13E-03 | 6.11E-04 |
| 2230 | 257695.6 | 4085400 | 0.007482148 | 1.14E-03 | 6.17E-04 |
| 2231 | 257719.9 | 4085399 | 0.007504227 | 1.14E-03 | 6.19E-04 |
| 2232 | 257744.2 | 4085398 | 0.007544533 | 1.15E-03 | 6.22E-04 |
| 2233 | 257768.5 | 4085397 | 0.007562612 | 1.15E-03 | 6.23E-04 |
| 2234 | 257792.8 | 4085396 | 0.007556981 | 1.15E-03 | 6.23E-04 |
| 2235 | 257817 | 4085395 | 0.007529864 | 1.15E-03 | 6.21E-04 |
| 2236 | 257841.3 | 4085394 | 0.007481851 | 1.14E-03 | 6.17E-04 |
| 2237 | 257865.6 | 4085392 | 0.007415317 | 1.13E-03 | 6.11E-04 |
| 2238 | 257889.9 | 4085391 | 0.007330851 | 1.12E-03 | 6.04E-04 |
| 2239 | 257914.2 | 4085390 | 0.007229196 | 1.10E-03 | 5.96E-04 |
| 2240 | 257938.5 | 4085389 | 0.007111686 | 1.08E-03 | 5.86E-04 |
| 2241 | 257962.7 | 4085388 | 0.006978171 | 1.06E-03 | 5.75E-04 |
| 2242 | 257987 | 4085387 | 0.006829245 | 1.04E-03 | 5.63E-04 |
| 2243 | 258011.3 | 4085386 | 0.006664168 | 1.02E-03 | 5.49E-04 |
| 2244 | 258035.6 | 4085385 | 0.006483234 | 9.88E-04 | 5.34E-04 |
| 2245 | 258059.9 | 4085384 | 0.006285111 | 9.57E-04 | 5.18E-04 |
| 2246 | 258084.1 | 4085383 | 0.006069206 | 9.25E-04 | 5.00E-04 |
| 2247 | 258108.4 | 4085382 | 0.005832999 | 8.89E-04 | 4.81E-04 |
| 2248 | 258132.7 | 4085381 | 0.005576788 | 8.50E-04 | 4.60E-04 |

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| 2249 | 258157 | 4085380 | 0.005301312 | 8.08E-04 | 4.37E-04 |
| 2250 | 258181.3 | 4085378 | 0.005010573 | 7.63E-04 | 4.13E-04 |
| 2251 | 258205.6 | 4085377 | 0.00471198 | 7.18E-04 | 3.88E-04 |
| 2252 | 258229.8 | 4085376 | 0.004413092 | 6.72E-04 | 3.64E-04 |
| 2253 | 258254.1 | 4085375 | 0.004118649 | 6.27E-04 | 3.39E-04 |
| 2254 | 258278.4 | 4085374 | 0.003827762 | 5.83E-04 | 3.16E-04 |
| 2255 | 258302.7 | 4085373 | 0.003539394 | 5.39E-04 | 2.92E-04 |
| 2256 | 258327 | 4085372 | 0.00325725 | 4.96E-04 | 2.68E-04 |
| 2257 | 258351.2 | 4085371 | 0.002988443 | 4.55E-04 | 2.46E-04 |
| 2258 | 258375.5 | 4085370 | 0.002739344 | 4.17E-04 | 2.26E-04 |
| 2259 | 257554.8 | 4085447 | 0.005620205 | 8.56E-04 | 4.63E-04 |
| 2260 | 257533.1 | 4085439 | 0.005653547 | 8.61E-04 | 4.66E-04 |
| 2261 | 257511.5 | 4085432 | 0.005656807 | 8.62E-04 | 4.66E-04 |
| 2262 | 257489.8 | 4085424 | 0.005629838 | 8.58E-04 | 4.64E-04 |
| 2263 | 257468.1 | 4085416 | 0.00557086 | 8.49E-04 | 4.59E-04 |
| 2264 | 257446.5 | 4085408 | 0.005474539 | 8.34E-04 | 4.51E-04 |
| 2265 | 257424.8 | 4085400 | 0.005334357 | 8.13E-04 | 4.40E-04 |
| 2266 | 257403.2 | 4085392 | 0.005151793 | 7.85E-04 | 4.25E-04 |
| 2267 | 257381.5 | 4085384 | 0.004935443 | 7.52E-04 | 4.07E-04 |
| 2268 | 257350.2 | 4085355 | 0.004716278 | 7.18E-04 | 3.89E-04 |
| 2269 | 257340.5 | 4085334 | 0.004686048 | 7.14E-04 | 3.86E-04 |
| 2270 | 257330.9 | 4085313 | 0.004591655 | 7.00E-04 | 3.78E-04 |
| 2271 | 257321.2 | 4085292 | 0.004422576 | 6.74E-04 | 3.65E-04 |
| 2272 | 257311.6 | 4085271 | 0.004179256 | 6.37E-04 | 3.44E-04 |
| 2273 | 257302 | 4085251 | 0.003875478 | 5.90E-04 | 3.19E-04 |
| 2274 | 257292.3 | 4085230 | 0.003534504 | 5.38E-04 | 2.91E-04 |
| 2275 | 257282.7 | 4085209 | 0.003182862 | 4.85E-04 | 2.62E-04 |
| 2276 | 257273 | 4085188 | 0.002841592 | 4.33E-04 | 2.34E-04 |
| 2277 | 257576.4 | 4085455 | 0.005558116 | 8.47E-04 | 4.58E-04 |
| 2278 | 257600.7 | 4085454 | 0.005679331 | 8.65E-04 | 4.68E-04 |
| 2279 | 257625 | 4085453 | 0.00577743 | 8.80E-04 | 4.76E-04 |
| 2280 | 257649.3 | 4085452 | 0.005852559 | 8.92E-04 | 4.82E-04 |
| 2281 | 257673.6 | 4085451 | 0.005884123 | 8.96E-04 | 4.85E-04 |
| 2282 | 257697.8 | 4085450 | 0.005910203 | 9.00E-04 | 4.87E-04 |
| 2283 | 257722.1 | 4085449 | 0.005933468 | 9.04E-04 | 4.89E-04 |
| 2284 | 257746.4 | 4085448 | 0.005943841 | 9.06E-04 | 4.90E-04 |
| 2285 | 257770.7 | 4085447 | 0.005940136 | 9.05E-04 | 4.90E-04 |
| 2286 | 257795 | 4085446 | 0.005920132 | 9.02E-04 | 4.88E-04 |
| 2287 | 257819.3 | 4085445 | 0.005884419 | 8.96E-04 | 4.85E-04 |
| 2288 | 257843.5 | 4085443 | 0.005832999 | 8.89E-04 | 4.81E-04 |
| 2289 | 257867.8 | 4085442 | 0.00576765 | 8.79E-04 | 4.75E-04 |
| 2290 | 257892.1 | 4085441 | 0.005688963 | 8.67E-04 | 4.69E-04 |
| 2291 | 257916.4 | 4085440 | 0.005598571 | 8.53E-04 | 4.61E-04 |
| 2292 | 257940.7 | 4085439 | 0.005496471 | 8.37E-04 | 4.53E-04 |
| 2293 | 257964.9 | 4085438 | 0.005382813 | 8.20E-04 | 4.44E-04 |
| 2294 | 257989.2 | 4085437 | 0.005258042 | 8.01E-04 | 4.33E-04 |
| 2295 | 258013.5 | 4085436 | 0.005121267 | 7.80E-04 | 4.22E-04 |

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| 2296 | 258037.8 | 4085435 | 0.004972341 | 7.58E-04 | 4.10E-04 |
| 2297 | 258062.1 | 4085434 | 0.004809783 | 7.33E-04 | 3.96E-04 |
| 2298 | 258086.4 | 4085433 | 0.004633443 | 7.06E-04 | 3.82E-04 |
| 2299 | 258110.6 | 4085432 | 0.004442729 | 6.77E-04 | 3.66E-04 |
| 2300 | 258134.9 | 4085431 | 0.004239864 | 6.46E-04 | 3.49E-04 |
| 2301 | 258159.2 | 4085430 | 0.004028404 | 6.14E-04 | 3.32E-04 |
| 2302 | 258183.5 | 4085428 | 0.003813833 | 5.81E-04 | 3.14E-04 |
| 2303 | 258207.8 | 4085427 | 0.003601335 | 5.49E-04 | 2.97E-04 |
| 2304 | 258232 | 4085426 | 0.003392691 | 5.17E-04 | 2.80E-04 |
| 2305 | 258256.3 | 4085425 | 0.003187011 | 4.86E-04 | 2.63E-04 |
| 2306 | 258280.6 | 4085424 | 0.002982071 | 4.54E-04 | 2.46E-04 |
| 2307 | 258304.9 | 4085423 | 0.002779058 | 4.23E-04 | 2.29E-04 |
| 2308 | 258329.2 | 4085422 | 0.002581231 | 3.93E-04 | 2.13E-04 |
| 2309 | 258353.5 | 4085421 | 0.00239274 | 3.65E-04 | 1.97E-04 |
| 2310 | 258377.7 | 4085420 | 0.002216697 | 3.38E-04 | 1.83E-04 |
| 2311 | 257558.6 | 4085547 | 0.003926897 | 5.98E-04 | 3.24E-04 |
| 2312 | 257536.4 | 4085539 | 0.003999657 | 6.09E-04 | 3.30E-04 |
| 2313 | 257514.2 | 4085531 | 0.004041296 | 6.16E-04 | 3.33E-04 |
| 2314 | 257492 | 4085523 | 0.00406797 | 6.20E-04 | 3.35E-04 |
| 2315 | 257469.8 | 4085515 | 0.004079676 | 6.22E-04 | 3.36E-04 |
| 2316 | 257447.6 | 4085507 | 0.004076268 | 6.21E-04 | 3.36E-04 |
| 2317 | 257425.3 | 4085498 | 0.004054781 | 6.18E-04 | 3.34E-04 |
| 2318 | 257403.1 | 4085490 | 0.004010919 | 6.11E-04 | 3.31E-04 |
| 2319 | 257380.9 | 4085482 | 0.003940531 | 6.00E-04 | 3.25E-04 |
| 2320 | 257358.7 | 4085474 | 0.003844655 | 5.86E-04 | 3.17E-04 |
| 2321 | 257336.5 | 4085466 | 0.003728775 | 5.68E-04 | 3.07E-04 |
| 2322 | 257314.3 | 4085458 | 0.003598668 | 5.48E-04 | 2.97E-04 |
| 2323 | 257282.2 | 4085428 | 0.003475675 | 5.29E-04 | 2.86E-04 |
| 2324 | 257272.3 | 4085407 | 0.003465598 | 5.28E-04 | 2.86E-04 |
| 2325 | 257262.4 | 4085385 | 0.003422328 | 5.21E-04 | 2.82E-04 |
| 2326 | 257252.5 | 4085364 | 0.0033389 | 5.09E-04 | 2.75E-04 |
| 2327 | 257242.6 | 4085342 | 0.003212054 | 4.89E-04 | 2.65E-04 |
| 2328 | 257232.7 | 4085321 | 0.003042234 | 4.63E-04 | 2.51E-04 |
| 2329 | 257222.8 | 4085299 | 0.002836406 | 4.32E-04 | 2.34E-04 |
| 2330 | 257212.9 | 4085278 | 0.002607608 | 3.97E-04 | 2.15E-04 |
| 2331 | 257203 | 4085256 | 0.002371253 | 3.61E-04 | 1.95E-04 |
| 2332 | 257193.1 | 4085235 | 0.002141567 | 3.26E-04 | 1.77E-04 |
| 2333 | 257183.2 | 4085213 | 0.001929663 | 2.94E-04 | 1.59E-04 |
| 2334 | 257173.3 | 4085192 | 0.001742357 | 2.65E-04 | 1.44E-04 |
| 2335 | 257580.9 | 4085555 | 0.003858733 | 5.88E-04 | 3.18E-04 |
| 2336 | 257605.1 | 4085554 | 0.00390141 | 5.94E-04 | 3.22E-04 |
| 2337 | 257629.4 | 4085553 | 0.003932381 | 5.99E-04 | 3.24E-04 |
| 2338 | 257653.7 | 4085552 | 0.003951496 | 6.02E-04 | 3.26E-04 |
| 2339 | 257678 | 4085551 | 0.003958758 | 6.03E-04 | 3.26E-04 |
| 2340 | 257702.3 | 4085550 | 0.003955645 | 6.03E-04 | 3.26E-04 |
| 2341 | 257726.6 | 4085549 | 0.003944383 | 6.01E-04 | 3.25E-04 |
| 2342 | 257750.8 | 4085548 | 0.003927342 | 5.98E-04 | 3.24E-04 |

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| 2343 | 257775.1 | 4085547 | 0.003905411 | 5.95E-04 | 3.22E-04 |
| 2344 | 257799.4 | 4085546 | 0.003877997 | 5.91E-04 | 3.20E-04 |
| 2345 | 257823.7 | 4085544 | 0.003844358 | 5.86E-04 | 3.17E-04 |
| 2346 | 257848 | 4085543 | 0.003803015 | 5.79E-04 | 3.13E-04 |
| 2347 | 257872.2 | 4085542 | 0.003753521 | 5.72E-04 | 3.09E-04 |
| 2348 | 257896.5 | 4085541 | 0.003695729 | 5.63E-04 | 3.05E-04 |
| 2349 | 257920.8 | 4085540 | 0.003630232 | 5.53E-04 | 2.99E-04 |
| 2350 | 257945.1 | 4085539 | 0.003556584 | 5.42E-04 | 2.93E-04 |
| 2351 | 257969.4 | 4085538 | 0.003475082 | 5.29E-04 | 2.86E-04 |
| 2352 | 257993.7 | 4085537 | 0.003385282 | 5.16E-04 | 2.79E-04 |
| 2353 | 258017.9 | 4085536 | 0.003286887 | 5.01E-04 | 2.71E-04 |
| 2354 | 258042.2 | 4085535 | 0.003180046 | 4.84E-04 | 2.62E-04 |
| 2355 | 258066.5 | 4085534 | 0.003065055 | 4.67E-04 | 2.53E-04 |
| 2356 | 258090.8 | 4085533 | 0.002944432 | 4.49E-04 | 2.43E-04 |
| 2357 | 258115.1 | 4085532 | 0.002820253 | 4.30E-04 | 2.32E-04 |
| 2358 | 258139.3 | 4085530 | 0.002696223 | 4.11E-04 | 2.22E-04 |
| 2359 | 258163.6 | 4085529 | 0.002574415 | 3.92E-04 | 2.12E-04 |
| 2360 | 258187.9 | 4085528 | 0.002455867 | 3.74E-04 | 2.02E-04 |
| 2361 | 258212.2 | 4085527 | 0.002339246 | 3.56E-04 | 1.93E-04 |
| 2362 | 258236.5 | 4085526 | 0.002222921 | 3.39E-04 | 1.83E-04 |
| 2363 | 258260.8 | 4085525 | 0.002106003 | 3.21E-04 | 1.74E-04 |
| 2364 | 258285 | 4085524 | 0.001989678 | 3.03E-04 | 1.64E-04 |
| 2365 | 258309.3 | 4085523 | 0.001875575 | 2.86E-04 | 1.55E-04 |
| 2366 | 258333.6 | 4085522 | 0.001764881 | 2.69E-04 | 1.45E-04 |
| 2367 | 258357.9 | 4085521 | 0.001659374 | 2.53E-04 | 1.37E-04 |
| 2368 | 258382.2 | 4085520 | 0.001559793 | 2.38E-04 | 1.29E-04 |
| 2369 | 257562.7 | 4085647 | 0.002880713 | 4.39E-04 | 2.37E-04 |
| 2370 | 257540.2 | 4085639 | 0.002933467 | 4.47E-04 | 2.42E-04 |
| 2371 | 257517.6 | 4085630 | 0.002980145 | 4.54E-04 | 2.46E-04 |
| 2372 | 257495 | 4085622 | 0.00301971 | 4.60E-04 | 2.49E-04 |
| 2373 | 257472.5 | 4085614 | 0.003051718 | 4.65E-04 | 2.52E-04 |
| 2374 | 257449.9 | 4085606 | 0.003076317 | 4.69E-04 | 2.54E-04 |
| 2375 | 257427.3 | 4085597 | 0.003103435 | 4.73E-04 | 2.56E-04 |
| 2376 | 257404.8 | 4085589 | 0.003113808 | 4.74E-04 | 2.57E-04 |
| 2377 | 257382.2 | 4085581 | 0.003111288 | 4.74E-04 | 2.56E-04 |
| 2378 | 257359.7 | 4085573 | 0.003094099 | 4.71E-04 | 2.55E-04 |
| 2379 | 257337.1 | 4085564 | 0.003059572 | 4.66E-04 | 2.52E-04 |
| 2380 | 257314.5 | 4085556 | 0.003008744 | 4.58E-04 | 2.48E-04 |
| 2381 | 257292 | 4085548 | 0.002945025 | 4.49E-04 | 2.43E-04 |
| 2382 | 257269.4 | 4085540 | 0.002872118 | 4.38E-04 | 2.37E-04 |
| 2383 | 257246.8 | 4085531 | 0.002793284 | 4.26E-04 | 2.30E-04 |
| 2384 | 257214.2 | 4085501 | 0.002727786 | 4.16E-04 | 2.25E-04 |
| 2385 | 257204.2 | 4085480 | 0.002729564 | 4.16E-04 | 2.25E-04 |
| 2386 | 257194.1 | 4085458 | 0.002711189 | 4.13E-04 | 2.23E-04 |
| 2387 | 257184.1 | 4085436 | 0.002668512 | 4.07E-04 | 2.20E-04 |
| 2388 | 257174 | 4085414 | 0.002598272 | 3.96E-04 | 2.14E-04 |
| 2389 | 257164 | 4085392 | 0.002499433 | 3.81E-04 | 2.06E-04 |

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| 2390 | 257153.9 | 4085370 | 0.002373032 | 3.62E-04 | 1.96E-04 |
| 2391 | 257143.9 | 4085349 | 0.002223513 | 3.39E-04 | 1.83E-04 |
| 2392 | 257133.8 | 4085327 | 0.002058435 | 3.14E-04 | 1.70E-04 |
| 2393 | 257123.8 | 4085305 | 0.001887578 | 2.88E-04 | 1.56E-04 |
| 2394 | 257113.7 | 4085283 | 0.001720129 | 2.62E-04 | 1.42E-04 |
| 2395 | 257103.7 | 4085261 | 0.001563794 | 2.38E-04 | 1.29E-04 |
| 2396 | 257093.7 | 4085240 | 0.001423463 | 2.17E-04 | 1.17E-04 |
| 2397 | 257083.6 | 4085218 | 0.001303285 | 1.99E-04 | 1.07E-04 |
| 2398 | 257073.6 | 4085196 | 0.001202964 | 1.83E-04 | 9.92E-05 |
| 2399 | 257585.3 | 4085655 | 0.00282218 | 4.30E-04 | 2.33E-04 |
| 2400 | 257609.6 | 4085654 | 0.002835368 | 4.32E-04 | 2.34E-04 |
| 2401 | 257633.9 | 4085653 | 0.002842333 | 4.33E-04 | 2.34E-04 |
| 2402 | 257658.1 | 4085652 | 0.002842926 | 4.33E-04 | 2.34E-04 |
| 2403 | 257682.4 | 4085651 | 0.00283685 | 4.32E-04 | 2.34E-04 |
| 2404 | 257706.7 | 4085650 | 0.002824847 | 4.30E-04 | 2.33E-04 |
| 2405 | 257731 | 4085649 | 0.002807213 | 4.28E-04 | 2.31E-04 |
| 2406 | 257755.3 | 4085648 | 0.002785578 | 4.24E-04 | 2.30E-04 |
| 2407 | 257779.5 | 4085647 | 0.002760831 | 4.21E-04 | 2.28E-04 |
| 2408 | 257803.8 | 4085645 | 0.002733713 | 4.16E-04 | 2.25E-04 |
| 2409 | 257828.1 | 4085644 | 0.002704077 | 4.12E-04 | 2.23E-04 |
| 2410 | 257852.4 | 4085643 | 0.002670883 | 4.07E-04 | 2.20E-04 |
| 2411 | 257876.7 | 4085642 | 0.002627465 | 4.00E-04 | 2.17E-04 |
| 2412 | 257901 | 4085641 | 0.002580935 | 3.93E-04 | 2.13E-04 |
| 2413 | 257925.2 | 4085640 | 0.002531886 | 3.86E-04 | 2.09E-04 |
| 2414 | 257949.5 | 4085639 | 0.002475724 | 3.77E-04 | 2.04E-04 |
| 2415 | 257973.8 | 4085638 | 0.002413338 | 3.68E-04 | 1.99E-04 |
| 2416 | 257998.1 | 4085637 | 0.002348285 | 3.58E-04 | 1.94E-04 |
| 2417 | 258022.4 | 4085636 | 0.002275971 | 3.47E-04 | 1.88E-04 |
| 2418 | 258046.6 | 4085635 | 0.002198914 | 3.35E-04 | 1.81E-04 |
| 2419 | 258070.9 | 4085634 | 0.002120673 | 3.23E-04 | 1.75E-04 |
| 2420 | 258095.2 | 4085633 | 0.002042876 | 3.11E-04 | 1.68E-04 |
| 2421 | 258119.5 | 4085631 | 0.001967154 | 3.00E-04 | 1.62E-04 |
| 2422 | 258143.8 | 4085630 | 0.001893357 | 2.88E-04 | 1.56E-04 |
| 2423 | 258168.1 | 4085629 | 0.001820747 | 2.77E-04 | 1.50E-04 |
| 2424 | 258192.3 | 4085628 | 0.00174621 | 2.66E-04 | 1.44E-04 |
| 2425 | 258216.6 | 4085627 | 0.001662041 | 2.53E-04 | 1.37E-04 |
| 2426 | 258240.9 | 4085626 | 0.001587504 | 2.42E-04 | 1.31E-04 |
| 2427 | 258265.2 | 4085625 | 0.001513708 | 2.31E-04 | 1.25E-04 |
| 2428 | 258289.5 | 4085624 | 0.001440801 | 2.19E-04 | 1.19E-04 |
| 2429 | 258313.7 | 4085623 | 0.001369524 | 2.09E-04 | 1.13E-04 |
| 2430 | 258338 | 4085622 | 0.001300618 | 1.98E-04 | 1.07E-04 |
| 2431 | 258362.3 | 4085621 | 0.001234231 | 1.88E-04 | 1.02E-04 |
| 2432 | 258386.6 | 4085620 | 0.001175402 | 1.79E-04 | 9.69E-05 |
| 2433 | 257566.9 | 4085747 | 0.00219847 | 3.35E-04 | 1.81E-04 |
| 2434 | 257544.1 | 4085738 | 0.002241444 | 3.41E-04 | 1.85E-04 |
| 2435 | 257521.3 | 4085730 | 0.00228175 | 3.48E-04 | 1.88E-04 |
| 2436 | 257498.5 | 4085722 | 0.002319092 | 3.53E-04 | 1.91E-04 |

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| 2437 | 257475.7 | 4085713 | 0.00235273 | 3.58E-04 | 1.94E-04 |
| 2438 | 257452.9 | 4085705 | 0.002382515 | 3.63E-04 | 1.96E-04 |
| 2439 | 257430.1 | 4085697 | 0.002408596 | 3.67E-04 | 1.99E-04 |
| 2440 | 257407.3 | 4085688 | 0.00243112 | 3.70E-04 | 2.00E-04 |
| 2441 | 257384.5 | 4085680 | 0.002449791 | 3.73E-04 | 2.02E-04 |
| 2442 | 257361.7 | 4085672 | 0.002463128 | 3.75E-04 | 2.03E-04 |
| 2443 | 257338.9 | 4085663 | 0.002468907 | 3.76E-04 | 2.04E-04 |
| 2444 | 257316.1 | 4085655 | 0.00246787 | 3.76E-04 | 2.03E-04 |
| 2445 | 257293.3 | 4085647 | 0.002456015 | 3.74E-04 | 2.02E-04 |
| 2446 | 257270.5 | 4085638 | 0.002429342 | 3.70E-04 | 2.00E-04 |
| 2447 | 257247.7 | 4085630 | 0.002394222 | 3.65E-04 | 1.97E-04 |
| 2448 | 257224.9 | 4085622 | 0.002353323 | 3.59E-04 | 1.94E-04 |
| 2449 | 257202.1 | 4085613 | 0.002308423 | 3.52E-04 | 1.90E-04 |
| 2450 | 257179.3 | 4085605 | 0.002260559 | 3.44E-04 | 1.86E-04 |
| 2451 | 257146.3 | 4085575 | 0.002230033 | 3.40E-04 | 1.84E-04 |
| 2452 | 257136.2 | 4085553 | 0.002239665 | 3.41E-04 | 1.85E-04 |
| 2453 | 257126 | 4085531 | 0.002235664 | 3.41E-04 | 1.84E-04 |
| 2454 | 257115.9 | 4085509 | 0.002215215 | 3.37E-04 | 1.83E-04 |
| 2455 | 257105.7 | 4085487 | 0.00217639 | 3.32E-04 | 1.79E-04 |
| 2456 | 257095.6 | 4085464 | 0.002117413 | 3.23E-04 | 1.75E-04 |
| 2457 | 257085.4 | 4085442 | 0.002038282 | 3.11E-04 | 1.68E-04 |
| 2458 | 257075.3 | 4085420 | 0.001940184 | 2.96E-04 | 1.60E-04 |
| 2459 | 257065.1 | 4085398 | 0.001826082 | 2.78E-04 | 1.51E-04 |
| 2460 | 257055 | 4085376 | 0.001700717 | 2.59E-04 | 1.40E-04 |
| 2461 | 257044.8 | 4085354 | 0.001570611 | 2.39E-04 | 1.29E-04 |
| 2462 | 257034.7 | 4085332 | 0.001441838 | 2.20E-04 | 1.19E-04 |
| 2463 | 257024.5 | 4085310 | 0.001320179 | 2.01E-04 | 1.09E-04 |
| 2464 | 257014.3 | 4085288 | 0.001209929 | 1.84E-04 | 9.97E-05 |
| 2465 | 257004.2 | 4085266 | 0.001113313 | 1.70E-04 | 9.18E-05 |
| 2466 | 256994 | 4085244 | 0.001030774 | 1.57E-04 | 8.50E-05 |
| 2467 | 256983.9 | 4085222 | 0.000962757 | 1.47E-04 | 7.94E-05 |
| 2468 | 256973.7 | 4085200 | 0.000907336 | 1.38E-04 | 7.48E-05 |
| 2469 | 257589.7 | 4085755 | 0.002153422 | 3.28E-04 | 1.78E-04 |
| 2470 | 257614 | 4085754 | 0.002156089 | 3.28E-04 | 1.78E-04 |
| 2471 | 257638.3 | 4085753 | 0.002155348 | 3.28E-04 | 1.78E-04 |
| 2472 | 257662.6 | 4085752 | 0.002150606 | 3.28E-04 | 1.77E-04 |
| 2473 | 257686.8 | 4085751 | 0.002141863 | 3.26E-04 | 1.77E-04 |
| 2474 | 257711.1 | 4085750 | 0.002128675 | 3.24E-04 | 1.75E-04 |
| 2475 | 257735.4 | 4085749 | 0.002111485 | 3.22E-04 | 1.74E-04 |
| 2476 | 257759.7 | 4085747 | 0.002090295 | 3.18E-04 | 1.72E-04 |
| 2477 | 257784 | 4085746 | 0.002065845 | 3.15E-04 | 1.70E-04 |
| 2478 | 257808.2 | 4085745 | 0.002034726 | 3.10E-04 | 1.68E-04 |
| 2479 | 257832.5 | 4085744 | 0.001997383 | 3.04E-04 | 1.65E-04 |
| 2480 | 257856.8 | 4085743 | 0.001964041 | 2.99E-04 | 1.62E-04 |
| 2481 | 257881.1 | 4085742 | 0.001930107 | 2.94E-04 | 1.59E-04 |
| 2482 | 257905.4 | 4085741 | 0.001893061 | 2.88E-04 | 1.56E-04 |
| 2483 | 257929.7 | 4085740 | 0.00185231 | 2.82E-04 | 1.53E-04 |

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| 2484 | 257953.9 | 4085739 | 0.001807558 | 2.75E-04 | 1.49E-04 |
| 2485 | 257978.2 | 4085738 | 0.001759398 | 2.68E-04 | 1.45E-04 |
| 2486 | 258002.5 | 4085737 | 0.001709016 | 2.60E-04 | 1.41E-04 |
| 2487 | 258026.8 | 4085736 | 0.001657595 | 2.53E-04 | 1.37E-04 |
| 2488 | 258051.1 | 4085735 | 0.001606472 | 2.45E-04 | 1.32E-04 |
| 2489 | 258075.3 | 4085734 | 0.00155683 | 2.37E-04 | 1.28E-04 |
| 2490 | 258099.6 | 4085732 | 0.001508373 | 2.30E-04 | 1.24E-04 |
| 2491 | 258123.9 | 4085731 | 0.001461102 | 2.23E-04 | 1.20E-04 |
| 2492 | 258148.2 | 4085730 | 0.001413831 | 2.15E-04 | 1.17E-04 |
| 2493 | 258172.5 | 4085729 | 0.001365819 | 2.08E-04 | 1.13E-04 |
| 2494 | 258196.8 | 4085728 | 0.00131677 | 2.01E-04 | 1.09E-04 |
| 2495 | 258221 | 4085727 | 0.001266536 | 1.93E-04 | 1.04E-04 |
| 2496 | 258245.3 | 4085726 | 0.001216005 | 1.85E-04 | 1.00E-04 |
| 2497 | 258269.6 | 4085725 | 0.00116577 | 1.78E-04 | 9.61E-05 |
| 2498 | 258293.9 | 4085724 | 0.001116424 | 1.70E-04 | 9.20E-05 |
| 2499 | 258318.2 | 4085723 | 0.001068116 | 1.63E-04 | 8.80E-05 |
| 2500 | 258342.4 | 4085722 | 0.001020845 | 1.56E-04 | 8.41E-05 |
| 2501 | 258366.7 | 4085721 | 0.000975204 | 1.49E-04 | 8.04E-05 |
| 2502 | 258391 | 4085720 | 0.000931638 | 1.42E-04 | 7.68E-05 |
| 2503 | 257572.2 | 4085847 | 0.001740283 | 2.65E-04 | 1.43E-04 |
| 2504 | 257550.2 | 4085839 | 0.001771698 | 2.70E-04 | 1.46E-04 |
| 2505 | 257528.2 | 4085831 | 0.001801927 | 2.75E-04 | 1.49E-04 |
| 2506 | 257506.2 | 4085823 | 0.00183112 | 2.79E-04 | 1.51E-04 |
| 2507 | 257484.3 | 4085815 | 0.00185883 | 2.83E-04 | 1.53E-04 |
| 2508 | 257462.3 | 4085807 | 0.001885059 | 2.87E-04 | 1.55E-04 |
| 2509 | 257440.3 | 4085799 | 0.001909658 | 2.91E-04 | 1.57E-04 |
| 2510 | 257418.3 | 4085791 | 0.001932478 | 2.94E-04 | 1.59E-04 |
| 2511 | 257396.4 | 4085783 | 0.001953817 | 2.98E-04 | 1.61E-04 |
| 2512 | 257374.4 | 4085775 | 0.001973822 | 3.01E-04 | 1.63E-04 |
| 2513 | 257352.4 | 4085767 | 0.001992197 | 3.03E-04 | 1.64E-04 |
| 2514 | 257330.4 | 4085759 | 0.002007756 | 3.06E-04 | 1.65E-04 |
| 2515 | 257308.5 | 4085751 | 0.00201887 | 3.08E-04 | 1.66E-04 |
| 2516 | 257286.5 | 4085743 | 0.002024205 | 3.08E-04 | 1.67E-04 |
| 2517 | 257264.5 | 4085735 | 0.002022426 | 3.08E-04 | 1.67E-04 |
| 2518 | 257242.5 | 4085726 | 0.002013684 | 3.07E-04 | 1.66E-04 |
| 2519 | 257220.6 | 4085718 | 0.002001977 | 3.05E-04 | 1.65E-04 |
| 2520 | 257198.6 | 4085710 | 0.001984639 | 3.02E-04 | 1.64E-04 |
| 2521 | 257176.6 | 4085702 | 0.001961967 | 2.99E-04 | 1.62E-04 |
| 2522 | 257154.6 | 4085694 | 0.00193722 | 2.95E-04 | 1.60E-04 |
| 2523 | 257132.7 | 4085686 | 0.001911139 | 2.91E-04 | 1.58E-04 |
| 2524 | 257110.7 | 4085678 | 0.001883429 | 2.87E-04 | 1.55E-04 |
| 2525 | 257078.9 | 4085649 | 0.001874834 | 2.86E-04 | 1.55E-04 |
| 2526 | 257069.1 | 4085628 | 0.00188906 | 2.88E-04 | 1.56E-04 |
| 2527 | 257059.4 | 4085607 | 0.001894691 | 2.89E-04 | 1.56E-04 |
| 2528 | 257049.6 | 4085585 | 0.001890246 | 2.88E-04 | 1.56E-04 |
| 2529 | 257039.8 | 4085564 | 0.001873649 | 2.85E-04 | 1.54E-04 |
| 2530 | 257030 | 4085543 | 0.00184416 | 2.81E-04 | 1.52E-04 |

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| 2531 | 257020.2 | 4085522 | 0.001800742 | 2.74E-04 | 1.48E-04 |
| 2532 | 257010.4 | 4085500 | 0.001743542 | 2.66E-04 | 1.44E-04 |
| 2533 | 257000.6 | 4085479 | 0.001673155 | 2.55E-04 | 1.38E-04 |
| 2534 | 256990.9 | 4085458 | 0.00159106 | 2.42E-04 | 1.31E-04 |
| 2535 | 256981.1 | 4085437 | 0.001499927 | 2.29E-04 | 1.24E-04 |
| 2536 | 256971.3 | 4085415 | 0.001402866 | 2.14E-04 | 1.16E-04 |
| 2537 | 256961.5 | 4085394 | 0.00130373 | 1.99E-04 | 1.07E-04 |
| 2538 | 256951.7 | 4085373 | 0.001206521 | 1.84E-04 | 9.95E-05 |
| 2539 | 256941.9 | 4085352 | 0.001114794 | 1.70E-04 | 9.19E-05 |
| 2540 | 256932.1 | 4085330 | 0.00103107 | 1.57E-04 | 8.50E-05 |
| 2541 | 256922.4 | 4085309 | 0.000956385 | 1.46E-04 | 7.88E-05 |
| 2542 | 256912.6 | 4085288 | 0.000892517 | 1.36E-04 | 7.36E-05 |
| 2543 | 256902.8 | 4085267 | 0.000838874 | 1.28E-04 | 6.91E-05 |
| 2544 | 256893 | 4085245 | 0.000793974 | 1.21E-04 | 6.54E-05 |
| 2545 | 256883.2 | 4085224 | 0.000756632 | 1.15E-04 | 6.24E-05 |
| 2546 | 256873.4 | 4085203 | 0.000725217 | 1.10E-04 | 5.98E-05 |
| 2547 | 257594.1 | 4085855 | 0.001707682 | 2.60E-04 | 1.41E-04 |
| 2548 | 257618.4 | 4085854 | 0.001705904 | 2.60E-04 | 1.41E-04 |
| 2549 | 257642.7 | 4085853 | 0.001701606 | 2.59E-04 | 1.40E-04 |
| 2550 | 257667 | 4085852 | 0.001694345 | 2.58E-04 | 1.40E-04 |
| 2551 | 257691.3 | 4085851 | 0.001683972 | 2.57E-04 | 1.39E-04 |
| 2552 | 257715.5 | 4085850 | 0.001670191 | 2.54E-04 | 1.38E-04 |
| 2553 | 257739.8 | 4085848 | 0.001652557 | 2.52E-04 | 1.36E-04 |
| 2554 | 257764.1 | 4085847 | 0.001623661 | 2.47E-04 | 1.34E-04 |
| 2555 | 257788.4 | 4085846 | 0.00159847 | 2.44E-04 | 1.32E-04 |
| 2556 | 257812.7 | 4085845 | 0.001571945 | 2.39E-04 | 1.30E-04 |
| 2557 | 257837 | 4085844 | 0.001543197 | 2.35E-04 | 1.27E-04 |
| 2558 | 257861.2 | 4085843 | 0.001512671 | 2.30E-04 | 1.25E-04 |
| 2559 | 257885.5 | 4085842 | 0.001480663 | 2.26E-04 | 1.22E-04 |
| 2560 | 257909.8 | 4085841 | 0.001447617 | 2.21E-04 | 1.19E-04 |
| 2561 | 257934.1 | 4085840 | 0.00141398 | 2.15E-04 | 1.17E-04 |
| 2562 | 257958.4 | 4085839 | 0.001380193 | 2.10E-04 | 1.14E-04 |
| 2563 | 257982.6 | 4085838 | 0.001346259 | 2.05E-04 | 1.11E-04 |
| 2564 | 258006.9 | 4085837 | 0.001312917 | 2.00E-04 | 1.08E-04 |
| 2565 | 258031.2 | 4085836 | 0.00128002 | 1.95E-04 | 1.06E-04 |
| 2566 | 258055.5 | 4085834 | 0.001247716 | 1.90E-04 | 1.03E-04 |
| 2567 | 258079.8 | 4085833 | 0.001215708 | 1.85E-04 | 1.00E-04 |
| 2568 | 258104.1 | 4085832 | 0.001183552 | 1.80E-04 | 9.76E-05 |
| 2569 | 258128.3 | 4085831 | 0.001150507 | 1.75E-04 | 9.48E-05 |
| 2570 | 258152.6 | 4085830 | 0.001116424 | 1.70E-04 | 9.20E-05 |
| 2571 | 258176.9 | 4085829 | 0.001081305 | 1.65E-04 | 8.91E-05 |
| 2572 | 258201.2 | 4085828 | 0.001045296 | 1.59E-04 | 8.62E-05 |
| 2573 | 258225.5 | 4085827 | 0.001009139 | 1.54E-04 | 8.32E-05 |
| 2574 | 258249.7 | 4085826 | 0.00097313 | 1.48E-04 | 8.02E-05 |
| 2575 | 258274 | 4085825 | 0.000937714 | 1.43E-04 | 7.73E-05 |
| 2576 | 258298.3 | 4085824 | 0.000903038 | 1.38E-04 | 7.44E-05 |
| 2577 | 258322.6 | 4085823 | 0.000868956 | 1.32E-04 | 7.16E-05 |

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| 2578 | 258346.9 | 4085822 | 0.000835614 | 1.27E-04 | 6.89E-05 |
| 2579 | 258371.2 | 4085821 | 0.000803162 | 1.22E-04 | 6.62E-05 |
| 2580 | 258395.4 | 4085819 | 0.000771747 | 1.18E-04 | 6.36E-05 |
| 2581 | 257580.6 | 4086047 | 0.001183256 | 1.80E-04 | 9.75E-05 |
| 2582 | 257558.2 | 4086038 | 0.001206669 | 1.84E-04 | 9.95E-05 |
| 2583 | 257535.8 | 4086030 | 0.001230823 | 1.88E-04 | 1.01E-04 |
| 2584 | 257513.4 | 4086022 | 0.001251124 | 1.91E-04 | 1.03E-04 |
| 2585 | 257490.9 | 4086014 | 0.001270092 | 1.93E-04 | 1.05E-04 |
| 2586 | 257468.5 | 4086006 | 0.001288022 | 1.96E-04 | 1.06E-04 |
| 2587 | 257446.1 | 4085997 | 0.001304916 | 1.99E-04 | 1.08E-04 |
| 2588 | 257423.7 | 4085989 | 0.001320771 | 2.01E-04 | 1.09E-04 |
| 2589 | 257401.3 | 4085981 | 0.001335738 | 2.03E-04 | 1.10E-04 |
| 2590 | 257378.9 | 4085973 | 0.001350408 | 2.06E-04 | 1.11E-04 |
| 2591 | 257356.5 | 4085965 | 0.00136493 | 2.08E-04 | 1.13E-04 |
| 2592 | 257334.1 | 4085956 | 0.001379749 | 2.10E-04 | 1.14E-04 |
| 2593 | 257311.7 | 4085948 | 0.001394716 | 2.12E-04 | 1.15E-04 |
| 2594 | 257289.3 | 4085940 | 0.001409682 | 2.15E-04 | 1.16E-04 |
| 2595 | 257266.9 | 4085932 | 0.001423908 | 2.17E-04 | 1.17E-04 |
| 2596 | 257244.5 | 4085924 | 0.001436504 | 2.19E-04 | 1.18E-04 |
| 2597 | 257222.1 | 4085916 | 0.001446432 | 2.20E-04 | 1.19E-04 |
| 2598 | 257199.6 | 4085907 | 0.001452804 | 2.21E-04 | 1.20E-04 |
| 2599 | 257177.2 | 4085899 | 0.001455323 | 2.22E-04 | 1.20E-04 |
| 2600 | 257154.8 | 4085891 | 0.001453989 | 2.22E-04 | 1.20E-04 |
| 2601 | 257132.4 | 4085883 | 0.001449692 | 2.21E-04 | 1.19E-04 |
| 2602 | 257110 | 4085875 | 0.001443172 | 2.20E-04 | 1.19E-04 |
| 2603 | 257087.6 | 4085866 | 0.001435466 | 2.19E-04 | 1.18E-04 |
| 2604 | 257065.2 | 4085858 | 0.001427168 | 2.17E-04 | 1.18E-04 |
| 2605 | 257042.8 | 4085850 | 0.00141887 | 2.16E-04 | 1.17E-04 |
| 2606 | 257020.4 | 4085842 | 0.001410275 | 2.15E-04 | 1.16E-04 |
| 2607 | 256998 | 4085834 | 0.001401532 | 2.14E-04 | 1.16E-04 |
| 2608 | 256975.6 | 4085826 | 0.001392048 | 2.12E-04 | 1.15E-04 |
| 2609 | 256943.2 | 4085796 | 0.001402125 | 2.14E-04 | 1.16E-04 |
| 2610 | 256933.2 | 4085774 | 0.0014205 | 2.16E-04 | 1.17E-04 |
| 2611 | 256923.2 | 4085752 | 0.001435911 | 2.19E-04 | 1.18E-04 |
| 2612 | 256913.2 | 4085731 | 0.001443913 | 2.20E-04 | 1.19E-04 |
| 2613 | 256903.3 | 4085709 | 0.001445247 | 2.20E-04 | 1.19E-04 |
| 2614 | 256893.3 | 4085687 | 0.001439171 | 2.19E-04 | 1.19E-04 |
| 2615 | 256883.3 | 4085666 | 0.001424649 | 2.17E-04 | 1.17E-04 |
| 2616 | 256873.3 | 4085644 | 0.001401532 | 2.14E-04 | 1.16E-04 |
| 2617 | 256863.4 | 4085622 | 0.001369524 | 2.09E-04 | 1.13E-04 |
| 2618 | 256853.4 | 4085601 | 0.00132907 | 2.02E-04 | 1.10E-04 |
| 2619 | 256843.4 | 4085579 | 0.001280317 | 1.95E-04 | 1.06E-04 |
| 2620 | 256833.4 | 4085557 | 0.001224451 | 1.87E-04 | 1.01E-04 |
| 2621 | 256823.4 | 4085536 | 0.001162658 | 1.77E-04 | 9.58E-05 |
| 2622 | 256813.5 | 4085514 | 0.00109642 | 1.67E-04 | 9.04E-05 |
| 2623 | 256803.5 | 4085492 | 0.001027958 | 1.57E-04 | 8.47E-05 |
| 2624 | 256793.5 | 4085471 | 0.000959497 | 1.46E-04 | 7.91E-05 |

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| 2625 | 256783.5 | 4085449 | 0.000893258 | 1.36E-04 | 7.36E-05 |
| 2626 | 256773.5 | 4085427 | 0.000831317 | 1.27E-04 | 6.85E-05 |
| 2627 | 256763.6 | 4085406 | 0.000775155 | 1.18E-04 | 6.39E-05 |
| 2628 | 256753.6 | 4085384 | 0.000725809 | 1.11E-04 | 5.98E-05 |
| 2629 | 256743.6 | 4085362 | 0.000683428 | 1.04E-04 | 5.63E-05 |
| 2630 | 256733.6 | 4085341 | 0.000647716 | 9.87E-05 | 5.34E-05 |
| 2631 | 256723.7 | 4085319 | 0.000617486 | 9.41E-05 | 5.09E-05 |
| 2632 | 256713.7 | 4085297 | 0.000591998 | 9.02E-05 | 4.88E-05 |
| 2633 | 256703.7 | 4085276 | 0.000570067 | 8.68E-05 | 4.70E-05 |
| 2634 | 256693.7 | 4085254 | 0.000550655 | 8.39E-05 | 4.54E-05 |
| 2635 | 256683.7 | 4085232 | 0.000533465 | 8.13E-05 | 4.40E-05 |
| 2636 | 256673.8 | 4085211 | 0.000518499 | 7.90E-05 | 4.27E-05 |
| 2637 | 257603 | 4086055 | 0.001159546 | 1.77E-04 | 9.56E-05 |
| 2638 | 257627.3 | 4086054 | 0.00115273 | 1.76E-04 | 9.50E-05 |
| 2639 | 257651.6 | 4086053 | 0.001143987 | 1.74E-04 | 9.43E-05 |
| 2640 | 257675.8 | 4086051 | 0.001133466 | 1.73E-04 | 9.34E-05 |
| 2641 | 257700.1 | 4086050 | 0.00112087 | 1.71E-04 | 9.24E-05 |
| 2642 | 257724.4 | 4086049 | 0.0011062 | 1.69E-04 | 9.12E-05 |
| 2643 | 257748.7 | 4086048 | 0.001089158 | 1.66E-04 | 8.98E-05 |
| 2644 | 257773 | 4086047 | 0.001070191 | 1.63E-04 | 8.82E-05 |
| 2645 | 257797.2 | 4086046 | 0.001049297 | 1.60E-04 | 8.65E-05 |
| 2646 | 257821.5 | 4086045 | 0.001027069 | 1.56E-04 | 8.47E-05 |
| 2647 | 257845.8 | 4086044 | 0.0010041 | 1.53E-04 | 8.28E-05 |
| 2648 | 257870.1 | 4086043 | 0.000981132 | 1.49E-04 | 8.09E-05 |
| 2649 | 257894.4 | 4086042 | 0.000958904 | 1.46E-04 | 7.90E-05 |
| 2650 | 257918.7 | 4086041 | 0.000937862 | 1.43E-04 | 7.73E-05 |
| 2651 | 257942.9 | 4086040 | 0.00091845 | 1.40E-04 | 7.57E-05 |
| 2652 | 257967.2 | 4086039 | 0.000900667 | 1.37E-04 | 7.42E-05 |
| 2653 | 257991.5 | 4086038 | 0.000884367 | 1.35E-04 | 7.29E-05 |
| 2654 | 258015.8 | 4086036 | 0.000868808 | 1.32E-04 | 7.16E-05 |
| 2655 | 258040.1 | 4086035 | 0.000853396 | 1.30E-04 | 7.03E-05 |
| 2656 | 258064.3 | 4086034 | 0.000837837 | 1.28E-04 | 6.91E-05 |
| 2657 | 258088.6 | 4086033 | 0.00082124 | 1.25E-04 | 6.77E-05 |
| 2658 | 258112.9 | 4086032 | 0.000803606 | 1.22E-04 | 6.62E-05 |
| 2659 | 258137.2 | 4086031 | 0.000784787 | 1.20E-04 | 6.47E-05 |
| 2660 | 258161.5 | 4086030 | 0.00076493 | 1.17E-04 | 6.31E-05 |
| 2661 | 258185.8 | 4086029 | 0.000744481 | 1.13E-04 | 6.14E-05 |
| 2662 | 258210 | 4086028 | 0.000723883 | 1.10E-04 | 5.97E-05 |
| 2663 | 258234.3 | 4086027 | 0.000703285 | 1.07E-04 | 5.80E-05 |
| 2664 | 258258.6 | 4086026 | 0.000682984 | 1.04E-04 | 5.63E-05 |
| 2665 | 258282.9 | 4086025 | 0.000662979 | 1.01E-04 | 5.46E-05 |
| 2666 | 258307.2 | 4086024 | 0.00064327 | 9.80E-05 | 5.30E-05 |
| 2667 | 258331.4 | 4086022 | 0.000623858 | 9.50E-05 | 5.14E-05 |
| 2668 | 258355.7 | 4086021 | 0.00060489 | 9.22E-05 | 4.99E-05 |
| 2669 | 258380 | 4086020 | 0.000586367 | 8.93E-05 | 4.83E-05 |
| 2670 | 258404.3 | 4086019 | 0.000568585 | 8.66E-05 | 4.69E-05 |
| 2671 | 257589.1 | 4086246 | 0.000865548 | 1.32E-04 | 7.13E-05 |

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| 2672 | 257566.5 | 4086238 | 0.000883626 | 1.35E-04 | 7.28E-05 |
| 2673 | 257543.8 | 4086230 | 0.000900667 | 1.37E-04 | 7.42E-05 |
| 2674 | 257521.1 | 4086221 | 0.000916968 | 1.40E-04 | 7.56E-05 |
| 2675 | 257498.4 | 4086213 | 0.000932527 | 1.42E-04 | 7.69E-05 |
| 2676 | 257475.7 | 4086205 | 0.000947346 | 1.44E-04 | 7.81E-05 |
| 2677 | 257453 | 4086196 | 0.000961275 | 1.46E-04 | 7.92E-05 |
| 2678 | 257430.3 | 4086188 | 0.000974463 | 1.48E-04 | 8.03E-05 |
| 2679 | 257407.6 | 4086180 | 0.000986763 | 1.50E-04 | 8.13E-05 |
| 2680 | 257384.9 | 4086172 | 0.000998173 | 1.52E-04 | 8.23E-05 |
| 2681 | 257362.2 | 4086163 | 0.001008546 | 1.54E-04 | 8.31E-05 |
| 2682 | 257339.5 | 4086155 | 0.001019215 | 1.55E-04 | 8.40E-05 |
| 2683 | 257316.8 | 4086147 | 0.001031514 | 1.57E-04 | 8.50E-05 |
| 2684 | 257294.1 | 4086138 | 0.001042332 | 1.59E-04 | 8.59E-05 |
| 2685 | 257271.4 | 4086130 | 0.001052409 | 1.60E-04 | 8.67E-05 |
| 2686 | 257248.8 | 4086122 | 0.001062781 | 1.62E-04 | 8.76E-05 |
| 2687 | 257226.1 | 4086114 | 0.001073303 | 1.64E-04 | 8.85E-05 |
| 2688 | 257203.4 | 4086105 | 0.001083676 | 1.65E-04 | 8.93E-05 |
| 2689 | 257180.7 | 4086097 | 0.001093456 | 1.67E-04 | 9.01E-05 |
| 2690 | 257158 | 4086089 | 0.001102199 | 1.68E-04 | 9.09E-05 |
| 2691 | 257135.3 | 4086080 | 0.001109163 | 1.69E-04 | 9.14E-05 |
| 2692 | 257112.6 | 4086072 | 0.001113905 | 1.70E-04 | 9.18E-05 |
| 2693 | 257089.9 | 4086064 | 0.001116573 | 1.70E-04 | 9.20E-05 |
| 2694 | 257067.2 | 4086056 | 0.001117017 | 1.70E-04 | 9.21E-05 |
| 2695 | 257044.5 | 4086047 | 0.00111598 | 1.70E-04 | 9.20E-05 |
| 2696 | 257021.8 | 4086039 | 0.001113757 | 1.70E-04 | 9.18E-05 |
| 2697 | 256999.1 | 4086031 | 0.001110942 | 1.69E-04 | 9.16E-05 |
| 2698 | 256976.4 | 4086022 | 0.001108274 | 1.69E-04 | 9.14E-05 |
| 2699 | 256953.8 | 4086014 | 0.001105607 | 1.68E-04 | 9.11E-05 |
| 2700 | 256931.1 | 4086006 | 0.001103384 | 1.68E-04 | 9.10E-05 |
| 2701 | 256908.4 | 4085998 | 0.00110131 | 1.68E-04 | 9.08E-05 |
| 2702 | 256885.7 | 4085989 | 0.001099235 | 1.67E-04 | 9.06E-05 |
| 2703 | 256863 | 4085981 | 0.001097012 | 1.67E-04 | 9.04E-05 |
| 2704 | 256840.3 | 4085973 | 0.001094493 | 1.67E-04 | 9.02E-05 |
| 2705 | 256807.5 | 4085942 | 0.00110946 | 1.69E-04 | 9.15E-05 |
| 2706 | 256797.4 | 4085920 | 0.001126056 | 1.72E-04 | 9.28E-05 |
| 2707 | 256787.3 | 4085899 | 0.001140875 | 1.74E-04 | 9.40E-05 |
| 2708 | 256777.2 | 4085877 | 0.001152878 | 1.76E-04 | 9.50E-05 |
| 2709 | 256767.1 | 4085855 | 0.001161621 | 1.77E-04 | 9.58E-05 |
| 2710 | 256757 | 4085833 | 0.001165918 | 1.78E-04 | 9.61E-05 |
| 2711 | 256746.9 | 4085811 | 0.001165325 | 1.78E-04 | 9.61E-05 |
| 2712 | 256736.8 | 4085789 | 0.001159398 | 1.77E-04 | 9.56E-05 |
| 2713 | 256726.7 | 4085767 | 0.001147543 | 1.75E-04 | 9.46E-05 |
| 2714 | 256716.5 | 4085745 | 0.001129761 | 1.72E-04 | 9.31E-05 |
| 2715 | 256706.4 | 4085723 | 0.001106051 | 1.69E-04 | 9.12E-05 |
| 2716 | 256696.3 | 4085701 | 0.001078637 | 1.64E-04 | 8.89E-05 |
| 2717 | 256686.2 | 4085679 | 0.001043517 | 1.59E-04 | 8.60E-05 |
| 2718 | 256676.1 | 4085657 | 0.001003359 | 1.53E-04 | 8.27E-05 |

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| 2719 | 256666 | 4085635 | 0.000958904 | 1.46E-04 | 7.90E-05 |
| 2720 | 256655.9 | 4085613 | 0.000910744 | 1.39E-04 | 7.51E-05 |
| 2721 | 256645.8 | 4085591 | 0.000860361 | 1.31E-04 | 7.09E-05 |
| 2722 | 256635.7 | 4085569 | 0.000808793 | 1.23E-04 | 6.67E-05 |
| 2723 | 256625.6 | 4085547 | 0.000757817 | 1.15E-04 | 6.25E-05 |
| 2724 | 256615.5 | 4085526 | 0.000708916 | 1.08E-04 | 5.84E-05 |
| 2725 | 256605.4 | 4085504 | 0.000663423 | 1.01E-04 | 5.47E-05 |
| 2726 | 256595.3 | 4085482 | 0.000622228 | 9.48E-05 | 5.13E-05 |
| 2727 | 256585.2 | 4085460 | 0.000585923 | 8.93E-05 | 4.83E-05 |
| 2728 | 256575.1 | 4085438 | 0.000554804 | 8.45E-05 | 4.57E-05 |
| 2729 | 256565 | 4085416 | 0.000528575 | 8.05E-05 | 4.36E-05 |
| 2730 | 256554.9 | 4085394 | 0.000506644 | 7.72E-05 | 4.18E-05 |
| 2731 | 256544.8 | 4085372 | 0.000488121 | 7.44E-05 | 4.02E-05 |
| 2732 | 256534.7 | 4085350 | 0.000472117 | 7.19E-05 | 3.89E-05 |
| 2733 | 256524.5 | 4085328 | 0.000458039 | 6.98E-05 | 3.78E-05 |
| 2734 | 256514.4 | 4085306 | 0.000445295 | 6.78E-05 | 3.67E-05 |
| 2735 | 256504.3 | 4085284 | 0.000433292 | 6.60E-05 | 3.57E-05 |
| 2736 | 256494.2 | 4085262 | 0.000422327 | 6.43E-05 | 3.48E-05 |
| 2737 | 256484.1 | 4085240 | 0.000412102 | 6.28E-05 | 3.40E-05 |
| 2738 | 256474 | 4085218 | 0.000403063 | 6.14E-05 | 3.32E-05 |
| 2739 | 257611.8 | 4086255 | 0.000846432 | 1.29E-04 | 6.98E-05 |
| 2740 | 257636.1 | 4086253 | 0.000837096 | 1.28E-04 | 6.90E-05 |
| 2741 | 257660.4 | 4086252 | 0.000826723 | 1.26E-04 | 6.81E-05 |
| 2742 | 257684.7 | 4086251 | 0.000815313 | 1.24E-04 | 6.72E-05 |
| 2743 | 257709 | 4086250 | 0.000803162 | 1.22E-04 | 6.62E-05 |
| 2744 | 257733.2 | 4086249 | 0.00079027 | 1.20E-04 | 6.51E-05 |
| 2745 | 257757.5 | 4086248 | 0.000777229 | 1.18E-04 | 6.41E-05 |
| 2746 | 257781.8 | 4086247 | 0.000763893 | 1.16E-04 | 6.30E-05 |
| 2747 | 257806.1 | 4086246 | 0.000750112 | 1.14E-04 | 6.18E-05 |
| 2748 | 257830.4 | 4086245 | 0.000736034 | 1.12E-04 | 6.07E-05 |
| 2749 | 257854.7 | 4086244 | 0.00072329 | 1.10E-04 | 5.96E-05 |
| 2750 | 257878.9 | 4086243 | 0.000709805 | 1.08E-04 | 5.85E-05 |
| 2751 | 257903.2 | 4086242 | 0.000696913 | 1.06E-04 | 5.74E-05 |
| 2752 | 257927.5 | 4086241 | 0.000684762 | 1.04E-04 | 5.64E-05 |
| 2753 | 257951.8 | 4086239 | 0.000672759 | 1.02E-04 | 5.55E-05 |
| 2754 | 257976.1 | 4086238 | 0.000660904 | 1.01E-04 | 5.45E-05 |
| 2755 | 258000.3 | 4086237 | 0.00064905 | 9.89E-05 | 5.35E-05 |
| 2756 | 258024.6 | 4086236 | 0.000637195 | 9.71E-05 | 5.25E-05 |
| 2757 | 258048.9 | 4086235 | 0.00062534 | 9.53E-05 | 5.15E-05 |
| 2758 | 258073.2 | 4086234 | 0.000613485 | 9.35E-05 | 5.06E-05 |
| 2759 | 258097.5 | 4086233 | 0.00060163 | 9.17E-05 | 4.96E-05 |
| 2760 | 258121.8 | 4086232 | 0.000591406 | 9.01E-05 | 4.87E-05 |
| 2761 | 258146 | 4086231 | 0.000580144 | 8.84E-05 | 4.78E-05 |
| 2762 | 258170.3 | 4086230 | 0.000568289 | 8.66E-05 | 4.68E-05 |
| 2763 | 258194.6 | 4086229 | 0.000556434 | 8.48E-05 | 4.59E-05 |
| 2764 | 258218.9 | 4086228 | 0.000544727 | 8.30E-05 | 4.49E-05 |
| 2765 | 258243.2 | 4086227 | 0.000532873 | 8.12E-05 | 4.39E-05 |

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| 2766 | 258267.4 | 4086225 | 0.00052087 | 7.94E-05 | 4.29E-05 |
| 2767 | 258291.7 | 4086224 | 0.000508719 | 7.75E-05 | 4.19E-05 |
| 2768 | 258316 | 4086223 | 0.000496419 | 7.56E-05 | 4.09E-05 |
| 2769 | 258340.3 | 4086222 | 0.00048412 | 7.38E-05 | 3.99E-05 |
| 2770 | 258364.6 | 4086221 | 0.000471969 | 7.19E-05 | 3.89E-05 |
| 2771 | 258388.9 | 4086220 | 0.000459966 | 7.01E-05 | 3.79E-05 |
| 2772 | 258413.1 | 4086219 | 0.000447963 | 6.82E-05 | 3.69E-05 |
| 2773 | 257598.3 | 4086446 | 0.000660312 | 1.01E-04 | 5.44E-05 |
| 2774 | 257576 | 4086438 | 0.00067513 | 1.03E-04 | 5.57E-05 |
| 2775 | 257553.6 | 4086430 | 0.000689652 | 1.05E-04 | 5.68E-05 |
| 2776 | 257531.3 | 4086422 | 0.00070373 | 1.07E-04 | 5.80E-05 |
| 2777 | 257508.9 | 4086414 | 0.000717363 | 1.09E-04 | 5.91E-05 |
| 2778 | 257486.6 | 4086405 | 0.000730551 | 1.11E-04 | 6.02E-05 |
| 2779 | 257464.2 | 4086397 | 0.000742999 | 1.13E-04 | 6.12E-05 |
| 2780 | 257441.9 | 4086389 | 0.000754853 | 1.15E-04 | 6.22E-05 |
| 2781 | 257419.5 | 4086381 | 0.000765967 | 1.17E-04 | 6.31E-05 |
| 2782 | 257397.2 | 4086373 | 0.00077634 | 1.18E-04 | 6.40E-05 |
| 2783 | 257374.9 | 4086365 | 0.000785972 | 1.20E-04 | 6.48E-05 |
| 2784 | 257352.5 | 4086356 | 0.000795012 | 1.21E-04 | 6.55E-05 |
| 2785 | 257330.2 | 4086348 | 0.00080331 | 1.22E-04 | 6.62E-05 |
| 2786 | 257307.8 | 4086340 | 0.000811312 | 1.24E-04 | 6.69E-05 |
| 2787 | 257285.5 | 4086332 | 0.000819018 | 1.25E-04 | 6.75E-05 |
| 2788 | 257263.1 | 4086324 | 0.000826575 | 1.26E-04 | 6.81E-05 |
| 2789 | 257240.8 | 4086316 | 0.000834132 | 1.27E-04 | 6.88E-05 |
| 2790 | 257218.4 | 4086307 | 0.00084169 | 1.28E-04 | 6.94E-05 |
| 2791 | 257196.1 | 4086299 | 0.000849247 | 1.29E-04 | 7.00E-05 |
| 2792 | 257173.7 | 4086291 | 0.000856953 | 1.31E-04 | 7.06E-05 |
| 2793 | 257151.4 | 4086283 | 0.000866585 | 1.32E-04 | 7.14E-05 |
| 2794 | 257129 | 4086275 | 0.000875031 | 1.33E-04 | 7.21E-05 |
| 2795 | 257106.7 | 4086267 | 0.000881848 | 1.34E-04 | 7.27E-05 |
| 2796 | 257084.3 | 4086258 | 0.000887775 | 1.35E-04 | 7.32E-05 |
| 2797 | 257062 | 4086250 | 0.000892665 | 1.36E-04 | 7.36E-05 |
| 2798 | 257039.6 | 4086242 | 0.00089637 | 1.37E-04 | 7.39E-05 |
| 2799 | 257017.3 | 4086234 | 0.000898593 | 1.37E-04 | 7.41E-05 |
| 2800 | 256994.9 | 4086226 | 0.00089963 | 1.37E-04 | 7.42E-05 |
| 2801 | 256972.6 | 4086218 | 0.000897852 | 1.37E-04 | 7.40E-05 |
| 2802 | 256950.2 | 4086209 | 0.000895777 | 1.36E-04 | 7.38E-05 |
| 2803 | 256927.9 | 4086201 | 0.000894592 | 1.36E-04 | 7.37E-05 |
| 2804 | 256905.5 | 4086193 | 0.000893554 | 1.36E-04 | 7.37E-05 |
| 2805 | 256883.2 | 4086185 | 0.000892665 | 1.36E-04 | 7.36E-05 |
| 2806 | 256860.8 | 4086177 | 0.000892221 | 1.36E-04 | 7.35E-05 |
| 2807 | 256838.5 | 4086169 | 0.000892221 | 1.36E-04 | 7.35E-05 |
| 2808 | 256816.1 | 4086160 | 0.000892517 | 1.36E-04 | 7.36E-05 |
| 2809 | 256793.8 | 4086152 | 0.000892962 | 1.36E-04 | 7.36E-05 |
| 2810 | 256771.4 | 4086144 | 0.000893554 | 1.36E-04 | 7.37E-05 |
| 2811 | 256749.1 | 4086136 | 0.000894147 | 1.36E-04 | 7.37E-05 |
| 2812 | 256726.7 | 4086128 | 0.000894592 | 1.36E-04 | 7.37E-05 |

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| 2813 | 256704.4 | 4086120 | 0.000894888 | 1.36E-04 | 7.38E-05 |
| 2814 | 256672.1 | 4086090 | 0.000909558 | 1.39E-04 | 7.50E-05 |
| 2815 | 256662.1 | 4086068 | 0.000924525 | 1.41E-04 | 7.62E-05 |
| 2816 | 256652.2 | 4086047 | 0.000939788 | 1.43E-04 | 7.75E-05 |
| 2817 | 256642.2 | 4086025 | 0.000951939 | 1.45E-04 | 7.85E-05 |
| 2818 | 256632.3 | 4086003 | 0.00096246 | 1.47E-04 | 7.93E-05 |
| 2819 | 256622.3 | 4085982 | 0.000971055 | 1.48E-04 | 8.00E-05 |
| 2820 | 256612.4 | 4085960 | 0.000976834 | 1.49E-04 | 8.05E-05 |
| 2821 | 256602.4 | 4085939 | 0.000979798 | 1.49E-04 | 8.08E-05 |
| 2822 | 256592.5 | 4085917 | 0.000979205 | 1.49E-04 | 8.07E-05 |
| 2823 | 256582.5 | 4085895 | 0.000974908 | 1.49E-04 | 8.04E-05 |
| 2824 | 256572.6 | 4085874 | 0.00096661 | 1.47E-04 | 7.97E-05 |
| 2825 | 256562.6 | 4085852 | 0.000954458 | 1.45E-04 | 7.87E-05 |
| 2826 | 256552.7 | 4085830 | 0.000938158 | 1.43E-04 | 7.73E-05 |
| 2827 | 256542.7 | 4085809 | 0.000918005 | 1.40E-04 | 7.57E-05 |
| 2828 | 256532.8 | 4085787 | 0.000893851 | 1.36E-04 | 7.37E-05 |
| 2829 | 256522.8 | 4085766 | 0.000865992 | 1.32E-04 | 7.14E-05 |
| 2830 | 256512.9 | 4085744 | 0.000834725 | 1.27E-04 | 6.88E-05 |
| 2831 | 256502.9 | 4085722 | 0.000800494 | 1.22E-04 | 6.60E-05 |
| 2832 | 256493 | 4085701 | 0.000765226 | 1.17E-04 | 6.31E-05 |
| 2833 | 256483 | 4085679 | 0.000726698 | 1.11E-04 | 5.99E-05 |
| 2834 | 256473 | 4085658 | 0.000687281 | 1.05E-04 | 5.67E-05 |
| 2835 | 256463.1 | 4085636 | 0.000648012 | 9.87E-05 | 5.34E-05 |
| 2836 | 256453.1 | 4085614 | 0.000609781 | 9.29E-05 | 5.03E-05 |
| 2837 | 256443.2 | 4085593 | 0.000573624 | 8.74E-05 | 4.73E-05 |
| 2838 | 256433.2 | 4085571 | 0.000540282 | 8.23E-05 | 4.45E-05 |
| 2839 | 256423.3 | 4085550 | 0.0005102 | 7.77E-05 | 4.21E-05 |
| 2840 | 256413.3 | 4085528 | 0.000483972 | 7.37E-05 | 3.99E-05 |
| 2841 | 256403.4 | 4085506 | 0.000461299 | 7.03E-05 | 3.80E-05 |
| 2842 | 256393.4 | 4085485 | 0.000442332 | 6.74E-05 | 3.65E-05 |
| 2843 | 256383.5 | 4085463 | 0.000426328 | 6.49E-05 | 3.51E-05 |
| 2844 | 256373.5 | 4085441 | 0.000412843 | 6.29E-05 | 3.40E-05 |
| 2845 | 256363.6 | 4085420 | 0.000401433 | 6.12E-05 | 3.31E-05 |
| 2846 | 256353.6 | 4085398 | 0.000391356 | 5.96E-05 | 3.23E-05 |
| 2847 | 256343.7 | 4085377 | 0.000382169 | 5.82E-05 | 3.15E-05 |
| 2848 | 256333.7 | 4085355 | 0.000373574 | 5.69E-05 | 3.08E-05 |
| 2849 | 256323.8 | 4085333 | 0.000365276 | 5.56E-05 | 3.01E-05 |
| 2850 | 256313.8 | 4085312 | 0.000357274 | 5.44E-05 | 2.94E-05 |
| 2851 | 256303.9 | 4085290 | 0.000349568 | 5.33E-05 | 2.88E-05 |
| 2852 | 256293.9 | 4085269 | 0.000342307 | 5.21E-05 | 2.82E-05 |
| 2853 | 256284 | 4085247 | 0.000335639 | 5.11E-05 | 2.77E-05 |
| 2854 | 256274 | 4085225 | 0.000329711 | 5.02E-05 | 2.72E-05 |
| 2855 | 257620.7 | 4086454 | 0.000645493 | 9.83E-05 | 5.32E-05 |
| 2856 | 257645 | 4086453 | 0.000637343 | 9.71E-05 | 5.25E-05 |
| 2857 | 257669.2 | 4086452 | 0.000629193 | 9.59E-05 | 5.19E-05 |
| 2858 | 257693.5 | 4086451 | 0.000620746 | 9.46E-05 | 5.12E-05 |
| 2859 | 257717.8 | 4086450 | 0.0006123 | 9.33E-05 | 5.05E-05 |

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| 2860 | 257742.1 | 4086449 | 0.000603853 | 9.20E-05 | 4.98E-05 |
| 2861 | 257766.4 | 4086448 | 0.000596592 | 9.09E-05 | 4.92E-05 |
| 2862 | 257790.7 | 4086447 | 0.000589479 | 8.98E-05 | 4.86E-05 |
| 2863 | 257814.9 | 4086446 | 0.000582366 | 8.87E-05 | 4.80E-05 |
| 2864 | 257839.2 | 4086445 | 0.000575105 | 8.76E-05 | 4.74E-05 |
| 2865 | 257863.5 | 4086444 | 0.000567696 | 8.65E-05 | 4.68E-05 |
| 2866 | 257887.8 | 4086443 | 0.000559842 | 8.53E-05 | 4.61E-05 |
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| 2868 | 257936.3 | 4086440 | 0.000542801 | 8.27E-05 | 4.47E-05 |
| 2869 | 257960.6 | 4086439 | 0.000533614 | 8.13E-05 | 4.40E-05 |
| 2870 | 257984.9 | 4086438 | 0.000523833 | 7.98E-05 | 4.32E-05 |
| 2871 | 258009.2 | 4086437 | 0.000513609 | 7.82E-05 | 4.23E-05 |
| 2872 | 258033.5 | 4086436 | 0.000503236 | 7.67E-05 | 4.15E-05 |
| 2873 | 258057.8 | 4086435 | 0.000492863 | 7.51E-05 | 4.06E-05 |
| 2874 | 258082 | 4086434 | 0.00048249 | 7.35E-05 | 3.98E-05 |
| 2875 | 258106.3 | 4086433 | 0.000472413 | 7.20E-05 | 3.89E-05 |
| 2876 | 258130.6 | 4086432 | 0.000462929 | 7.05E-05 | 3.82E-05 |
| 2877 | 258154.9 | 4086431 | 0.000454038 | 6.92E-05 | 3.74E-05 |
| 2878 | 258179.2 | 4086430 | 0.00044574 | 6.79E-05 | 3.67E-05 |
| 2879 | 258203.4 | 4086429 | 0.000437886 | 6.67E-05 | 3.61E-05 |
| 2880 | 258227.7 | 4086427 | 0.000430477 | 6.56E-05 | 3.55E-05 |
| 2881 | 258252 | 4086426 | 0.000423364 | 6.45E-05 | 3.49E-05 |
| 2882 | 258276.3 | 4086425 | 0.000416103 | 6.34E-05 | 3.43E-05 |
| 2883 | 258300.6 | 4086424 | 0.000408694 | 6.23E-05 | 3.37E-05 |
| 2884 | 258324.9 | 4086423 | 0.000401136 | 6.11E-05 | 3.31E-05 |
| 2885 | 258349.1 | 4086422 | 0.000393431 | 5.99E-05 | 3.24E-05 |
| 2886 | 258373.4 | 4086421 | 0.000385577 | 5.87E-05 | 3.18E-05 |
| 2887 | 258397.7 | 4086420 | 0.000377723 | 5.75E-05 | 3.11E-05 |
| 2888 | 258422 | 4086419 | 0.000369869 | 5.63E-05 | 3.05E-05 |
| 2889 | 257607 | 4086646 | 0.000525463 | 8.01E-05 | 4.33E-05 |
| 2890 | 257584.4 | 4086638 | 0.000535392 | 8.16E-05 | 4.41E-05 |
| 2891 | 257561.8 | 4086629 | 0.000545913 | 8.32E-05 | 4.50E-05 |
| 2892 | 257539.3 | 4086621 | 0.000556582 | 8.48E-05 | 4.59E-05 |
| 2893 | 257516.7 | 4086613 | 0.000567696 | 8.65E-05 | 4.68E-05 |
| 2894 | 257494.2 | 4086605 | 0.000578958 | 8.82E-05 | 4.77E-05 |
| 2895 | 257471.6 | 4086596 | 0.00059022 | 8.99E-05 | 4.87E-05 |
| 2896 | 257449 | 4086588 | 0.000601334 | 9.16E-05 | 4.96E-05 |
| 2897 | 257426.5 | 4086580 | 0.000612003 | 9.32E-05 | 5.04E-05 |
| 2898 | 257403.9 | 4086572 | 0.000622228 | 9.48E-05 | 5.13E-05 |
| 2899 | 257381.3 | 4086563 | 0.00063186 | 9.63E-05 | 5.21E-05 |
| 2900 | 257358.8 | 4086555 | 0.000640603 | 9.76E-05 | 5.28E-05 |
| 2901 | 257336.2 | 4086547 | 0.000648753 | 9.88E-05 | 5.35E-05 |
| 2902 | 257313.6 | 4086539 | 0.000656162 | 1.00E-04 | 5.41E-05 |
| 2903 | 257291.1 | 4086530 | 0.000663127 | 1.01E-04 | 5.47E-05 |
| 2904 | 257268.5 | 4086522 | 0.000669795 | 1.02E-04 | 5.52E-05 |
| 2905 | 257246 | 4086514 | 0.00067676 | 1.03E-04 | 5.58E-05 |
| 2906 | 257223.4 | 4086506 | 0.000684317 | 1.04E-04 | 5.64E-05 |

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| 2907 | 257200.8 | 4086498 | 0.000691134 | 1.05E-04 | 5.70E-05 |
| 2908 | 257178.3 | 4086489 | 0.000697654 | 1.06E-04 | 5.75E-05 |
| 2909 | 257155.7 | 4086481 | 0.000704322 | 1.07E-04 | 5.81E-05 |
| 2910 | 257133.1 | 4086473 | 0.000710843 | 1.08E-04 | 5.86E-05 |
| 2911 | 257110.6 | 4086465 | 0.000717363 | 1.09E-04 | 5.91E-05 |
| 2912 | 257088 | 4086456 | 0.000723735 | 1.10E-04 | 5.97E-05 |
| 2913 | 257065.4 | 4086448 | 0.000729662 | 1.11E-04 | 6.01E-05 |
| 2914 | 257042.9 | 4086440 | 0.000735145 | 1.12E-04 | 6.06E-05 |
| 2915 | 257020.3 | 4086432 | 0.000740035 | 1.13E-04 | 6.10E-05 |
| 2916 | 256997.8 | 4086423 | 0.000744036 | 1.13E-04 | 6.13E-05 |
| 2917 | 256975.2 | 4086415 | 0.000747 | 1.14E-04 | 6.16E-05 |
| 2918 | 256952.6 | 4086407 | 0.000749074 | 1.14E-04 | 6.17E-05 |
| 2919 | 256930.1 | 4086399 | 0.000750112 | 1.14E-04 | 6.18E-05 |
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| 2921 | 256884.9 | 4086382 | 0.000749667 | 1.14E-04 | 6.18E-05 |
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| 2927 | 256749.6 | 4086333 | 0.000746259 | 1.14E-04 | 6.15E-05 |
| 2928 | 256727 | 4086324 | 0.000747 | 1.14E-04 | 6.16E-05 |
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| 2944 | 256456.1 | 4086062 | 0.000844357 | 1.29E-04 | 6.96E-05 |
| 2945 | 256446 | 4086040 | 0.000845839 | 1.29E-04 | 6.97E-05 |
| 2946 | 256436 | 4086018 | 0.00084495 | 1.29E-04 | 6.96E-05 |
| 2947 | 256425.9 | 4085997 | 0.000841245 | 1.28E-04 | 6.93E-05 |
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| 2949 | 256405.8 | 4085953 | 0.000825241 | 1.26E-04 | 6.80E-05 |
| 2950 | 256395.8 | 4085931 | 0.000812646 | 1.24E-04 | 6.70E-05 |
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| 2953 | 256365.6 | 4085866 | 0.000758854 | 1.16E-04 | 6.26E-05 |

| | | | | | |
|---|---|---|---|---|---|
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| 2958 | 256315.4 | 4085757 | 0.000615708 | 9.38E-05 | 5.08E-05 |
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| 2966 | 256235 | 4085582 | 0.00040084 | 6.11E-05 | 3.30E-05 |
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| 3008 | 258236.6 | 4086627 | 0.000356236 | 5.43E-05 | 2.94E-05 |
| 3009 | 258260.9 | 4086626 | 0.000350605 | 5.34E-05 | 2.89E-05 |
| 3010 | 258285.1 | 4086625 | 0.000345271 | 5.26E-05 | 2.85E-05 |
| 3011 | 258309.4 | 4086624 | 0.000340084 | 5.18E-05 | 2.80E-05 |
| 3012 | 258333.7 | 4086623 | 0.000334898 | 5.10E-05 | 2.76E-05 |
| 3013 | 258358 | 4086622 | 0.000329859 | 5.03E-05 | 2.72E-05 |
| 3014 | 258382.3 | 4086621 | 0.000324969 | 4.95E-05 | 2.68E-05 |
| 3015 | 258406.6 | 4086620 | 0.000319931 | 4.87E-05 | 2.64E-05 |
| 3016 | 258430.8 | 4086619 | 0.000314893 | 4.80E-05 | 2.60E-05 |

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# BIOLOGICAL RESOURCES EVALUATION

## PEACH AND BEHYMER RESIDENTIAL PROJECT

## CLOVIS, CALIFORNIA




LSA

June 2024

DRAFT

# BIOLOGICAL RESOURCES EVALUATION

## PEACH AND BEHYMER RESIDENTIAL PROJECT

## CLOVIS, CALIFORNIA

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Project No. 20241700

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June 2024

# EXECUTIVE SUMMARY

LSA has prepared this Biological Resources Evaluation to examine the potential for special-status biological resources to be impacted by the proposed development of the Peach and Behymer Residential Project (Project) in Clovis, Fresno County, California.

The proposed 37-acre Project would be fully developed with 266 single-family residences.

The results of a database and literature review and reconnaissance site visit determined that the following special-status species could have potential to be impacted by the proposed Project:

- Swainson's hawk (*Buteo swainsoni*): State Threatened
- Nesting birds

Suitable nest trees are not present on the Project site but are present within the region. Ruderal habitat on the Project site may provide limited foraging opportunities. Impacts to Swainson's hawk would be limited to possible abandonment of nests if established near the Project site and loss of suitable foraging habitat.

All habitats on and adjacent to the Project site have potential to support nesting bird species protected under the Migratory Bird Treaty Act and the California Fish and Game Code.

The Project is not anticipated to impact special-status plant species. No sensitive natural communities, jurisdictional aquatic resources, wildlife movement corridors, or nursery sites occur on the Project site. The Project site does not intersect any mapped U.S. Fish and Wildlife Service (USFWS) designated critical habitat or habitat conservation plans and does not conflict with local policies or ordinances.

Avoidance and minimization measures, including nest surveys and monitoring, are prescribed which, when implemented, would reduce Project impacts to biological resources to a less than significant level.

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# LIST OF ABBREVIATIONS AND ACRONYMS

| | |
|---|---|
| °F | degrees Fahrenheit |
| APN | Assessor Parcel Number |
| BGEPA | Bald and Golden Eagle Protection Act of 1940 |
| BIOS | Biogeographic Information and Observation System |
| BRE | Biological Resources Evaluation |
| BSA | Biological Study Area |
| CCR | California Code of Regulations |
| CDFW | California Department of Fish and Wildlife |
| CEQA | California Environmental Quality Act |
| CESA | California Endangered Species Act |
| CFR | Code of Federal Regulations |
| CNDDB | California Natural Diversity Database |
| CNPS | California Native Plant Society |
| CRPR | California Rare Plant Rank |
| CWA | Clean Water Act |
| CWHR | California Wildlife Habitat Relationships |
| FESA | Federal Endangered Species Act |
| HCP | Habitat Conservation Plan |
| IPaC | Information for Planning and Consultation |
| MBTA | Migratory Bird Treaty Act |
| MLRA | Major Land Resource Area |
| MM | Mitigation Measure |

| | |
|---|---|
| NCCP | Natural Community Conservation Plan |
| NEPA | National Environmental Policy Act |
| NETR | National Environmental Title Research LLC |
| NHD | National Hydrography Dataset |
| NMFS | National Marine Fisheries Service |
| NPPA | Native Plant Protection Act |
| NRCS | Natural Resources Conservation Service |
| NWI | National Wetlands Inventory |
| Project | Peach and Behymer Residential Project |
| SWRCB | State Water Resources Control Board |
| USACE | United States Army Corps of Engineers |
| USEPA | United States Environmental Protection Agency |
| USFWS | United States Fish and Wildlife Service |
| USGS | United States Geological Survey |
| WRCC | Western Regional Climate Center |

# 1.0 INTRODUCTION

## 1.1 PROJECT LOCATION

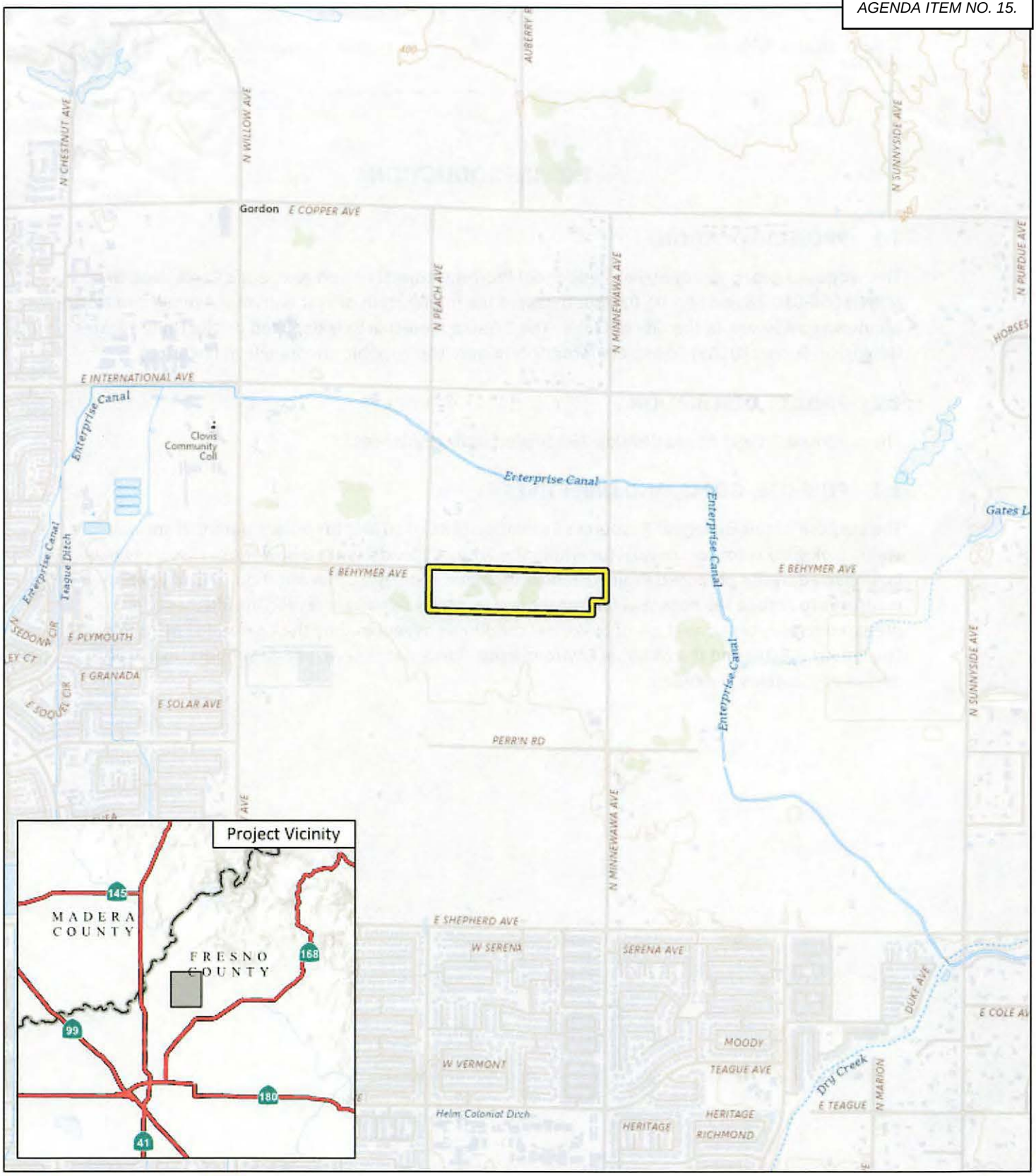
The proposed Peach and Behymer Residential Project (Project) site on Assessor's Parcel Numbers (APNs) 556-010-28 and 556-01-029 southeast of the intersection of East Behymer Avenue and North Minnewawa Avenue, in the City of Clovis. The 37-acre Project area is depicted on the United States Geological Survey (USGS) *Friant, California* 7.5-minute topographic quadrangle in (Figure 1).

## 1.2 PROJECT DESCRIPTION

The proposed Project would develop 266 single-family residences.

## 1.3 PURPOSE, GOALS, AND OBJECTIVES

The purpose of this Biological Resources Evaluation (BRE) is to identify where potential special-status biological resources may occur within the Project site, determine how those resources may be impacted by the proposed Project, and recommend avoidance, minimization, and mitigation measures to reduce the potential for impact to a less than significant level. This BRE has been prepared to support an analysis of biological conditions as required by the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA), and to support regulatory permit applications, if needed.




LSA

FIGURE 1

0 1000 2000
FEET

SOURCE: USGS The National Map (2018)

I:\20241700 De Young Peach Behymer\GIS\Pro\Peach and Behymer Residential Project\Peach and Behymer Residential Project.aprx (5/16/2024)

*Peach and Behymer Residential Project*

Regional Lo

# 2.0 METHODS

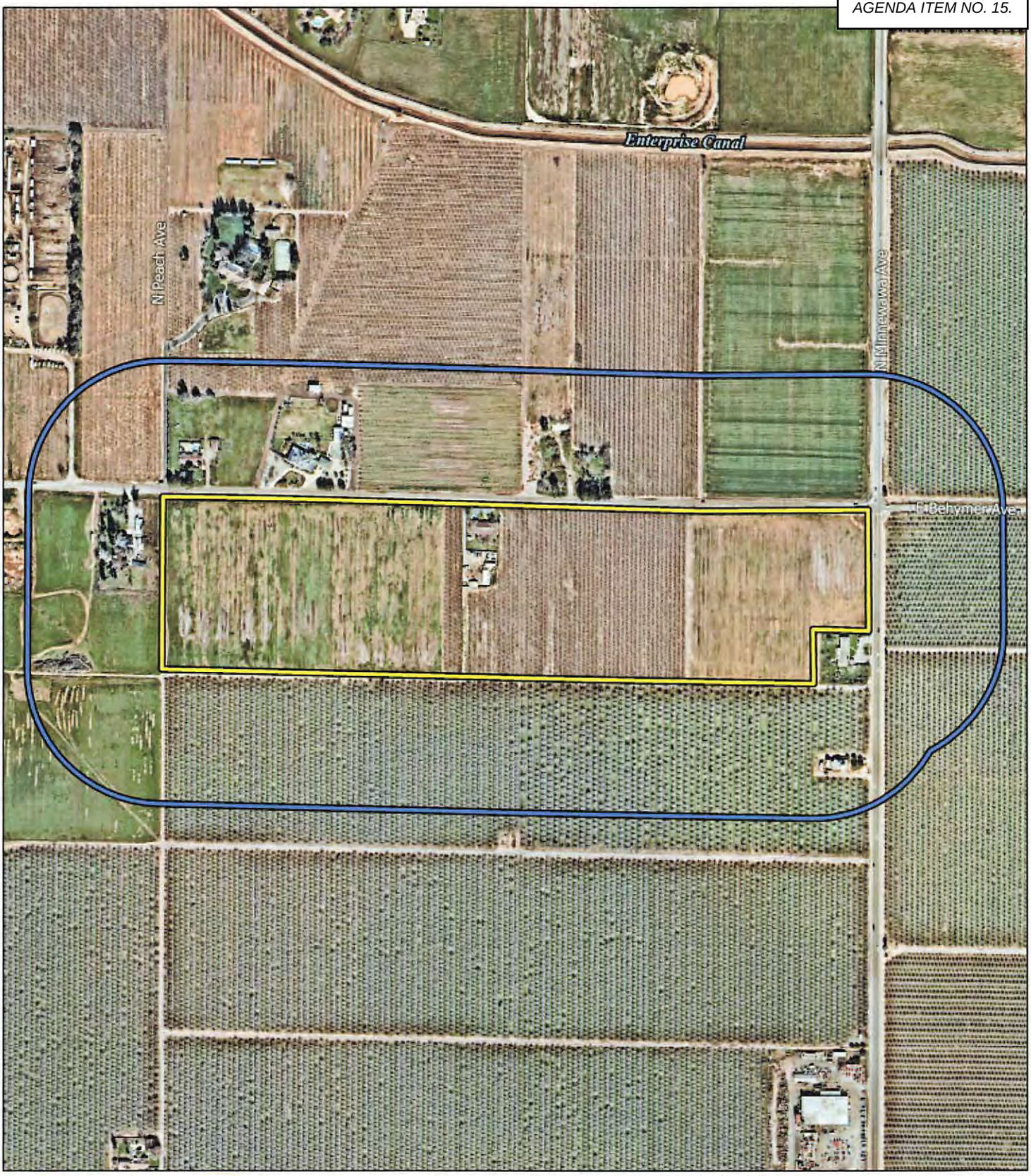
## 2.1 DEFINITION OF BIOLOGICAL STUDY AREA

For the purposes of this report, the Biological Study Area (BSA) is the Project site plus a 500-foot buffer (Figure 2).

## 2.2 DEFINITION OF SPECIAL-STATUS RESOURCES

For the purposes of this report, special-status resources include:

- Species listed as threatened or endangered under the Federal Endangered Species Act (FESA); species that are under review may be included if there is a reasonable expectation of listing within the life of the Project;
- Species listed as candidate, threatened, or endangered under the California Endangered Species Act (CESA);
- Species designated as Fully Protected or Species of Special Concern by the California Department of Fish and Wildlife (CDFW);
- Plant species with a California Rare Plant Rank (CRPR) in Categories 1 or 2;
- Species designated as locally important by the Local Agency and/or otherwise protected through ordinance or local policy;
- Sensitive natural communities as defined by the CDFW or by Local agencies; and
- Aquatic features.




LSA

Project Location

Biological Study Area

FIGURE 2

N

0 250 500

FEET

SOURCE: Nearmap (02/2024)

*Peach and Behymer Residential Project*

Biological Stud

I:\20241700 De Young Peach Behymer\GIS\Pro\Peach and Behymer Residential Project\Peach and Behymer Residential Project.aprx (5/16/2024)

## 2.3 DATABASE SEARCH AND BACKGROUND REVIEW

The following sources were reviewed for information on special-status biological resources in the Project vicinity:

- CDFW's California Natural Diversity Database (CNDDB; CDFW 2024a)
- CDFW's Biogeographic Information and Observation System (BIOS; CDFW 2024b)
- CDFW's California Wildlife Habitat Relationships (CWHR) System (Mayer and Laudenslayer 1988)
- California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants of California (CNPS 2024)
- United States Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) system (USFWS 2024b)
- USFWS Critical Habitat Mapper (USFWS 2024a)
- USFWS National Wetlands Inventory (NWI; USFWS 2024c)
- USGS National Hydrography Dataset (NHD; USGS 2024)
- United States Department of Agriculture, Natural Resources Conservation Service (NRCS) Web Soil Survey (NRCS 2024a)
- Current and historical aerial imagery (Google LLC 2024; NETR 2024)

For each of these data sources, the search was focused on the *Friant, California* USGS 7.5-minute quadrangle in which the Project is located, plus the surrounding eight quadrangles. For the CNDDB, a 10-mile search radius was used.

The CNDDB provides element-specific spatial information on individually documented occurrences of special-status species and sensitive natural communities. Some of the information available in the CNDDB is still undergoing review by the CDFW; these records are identified as unprocessed data. The CNPS database provides similar information as the CNDDB, but at a much lower spatial resolution. Much of this information in these databases is obtained opportunistically and is often focused on protected lands or on lands where development has been proposed. Neither database represents a comprehensive survey for special-status resources in the region. As such, the absence of recorded occurrences in these databases at any specific location does not preclude the possibility that a special-status resource could be present. The NWI and Web Soil Survey provide comprehensive data but at a low resolution, requiring confirmation in the field.

The results of the database inquiries were reviewed to develop a list of special-status resources that may be present on and within the vicinity of the Project. This list was then evaluated against the existing conditions observed during the reconnaissance site visit of the BSA to determine which

special-status resources have the potential to occur, and then the potential for impacts to those resources through implementation of the Project.

## 2.4 RECONNAISSANCE-LEVEL FIELD SURVEYS

The environmental setting of the BSA was documented during a reconnaissance site survey on May 1, 2024 (see Table A).

### Table A: Field Surveys Personnel and Timing

| Date | Personnel | Timing | Weather Conditions | Survey Type |
|---|---|---|---|---|
| 5/1/2024 | Carie Wingert | 1030–1156 | Sunny and clear, light breeze, 64°F–67°F | Reconnaissance |

Source = LSA (May 2024).
°F = degrees Fahrenheit

The reconnaissance-level site survey of the BSA characterized the existing biological conditions of the Project site and the greater BSA. The site survey consisted of a combination of windshield surveys and pedestrian transects. Adjacent parcels were visually scanned from the Project site and public roads for potential special-status resources. The survey effort resulted in 100 percent visual coverage of the BSA.

All plant and animal species detected were recorded and identified to the lowest taxonomic level necessary to determine rarity. The locations of any special-status species detected were documented using GPS. All other potential sensitive biological resources, such as aquatic habitats, were also recorded.

## 2.5 POTENTIAL FOR OCCURRENCE ASSESSMENT

Assessments for the potential occurrence of special-status species are based on known ranges, habitat preferences for the species, species occurrence records from the CNDDB and CNPS, species occurrence records from other sites in the vicinity of the survey area, previous reports for the Project site, and the results of surveys of the Project site. The potential for each special-status species to occur in the BSA was evaluated according to the following criteria:

- **No:** Habitat on and adjacent to the site is clearly unsuitable to meet the needs of the species (i.e., foraging, breeding, cover, substrate, elevation, hydrology, plant community, site history, disturbance regime), and species would have been identifiable on site if present (e.g., oak trees). Protocol surveys (if conducted) did not detect species.

- **Yes:** Conditions within the BSA may, in some way, support a portion of the species' ecology (e.g., foraging, reproduction, movement/migration). Protocol surveys (if conducted) were conducted, but negative results do not exclude the potential for a species to occur.

- **Present:** The species was observed within the BSA or has been recorded (e.g., CNDDB, other reports) in the BSA recently (within the last 5 years).

# 3.0 REGULATORY SETTING

Regulated or sensitive resources that were studied and analyzed include special-status plant and animal species, nesting birds and raptors, sensitive plant communities, jurisdictional waters and wetlands, wildlife movement areas, and locally protected resources, such as protected trees. Regulatory authority over biological resources is shared by federal, State, and local authorities. Primary authority for regulation of general biological resources lies within the land use control and planning authority of local jurisdictions (in this instance, the City of Clovis).

Potential impacts to biological resources were analyzed based on the following list of statutes. Summaries of these statues are provided in Appendix A.

- CEQA
- FESA
- CESA
- Federal Clean Water Act
- California Fish and Game Code
- Migratory Bird Treaty Act (MBTA)
- The Bald and Golden Eagle Protection Act
- Porter-Cologne Water Quality Control Act
- City of Clovis General Plan

# 4.0 ENVIRONMENTAL SETTING

## 4.1 PHYSICAL CHARACTERISTICS

### 4.1.1 Climate

The Project is in an area with a Mediterranean climate of hot summers and mild, wet winters. Average high temperatures range from 55 degrees Fahrenheit (°F) in January to 98°F in July, with daily temperatures exceeding 100°F several days in the summer (WRCC 2024). Average low temperatures range from 37°F in December to 66°F in July. Precipitation occurs primarily as rain, most of which falls from November to April, with an average of 11 inches of rainfall per year. Precipitation may also occur as a dense fog during the winter known as tule fog. Rain rarely falls during the summer months.

### 4.1.2 Topography and Land Use

The Project site is flat with portions in agricultural use as orchards. Elevation on the Project site is approximately 383 feet above mean sea level. Two rural residences are located on the property. Review of historic aerial imagery indicates the site has been used for orchards for decades (Google LLC 2024).

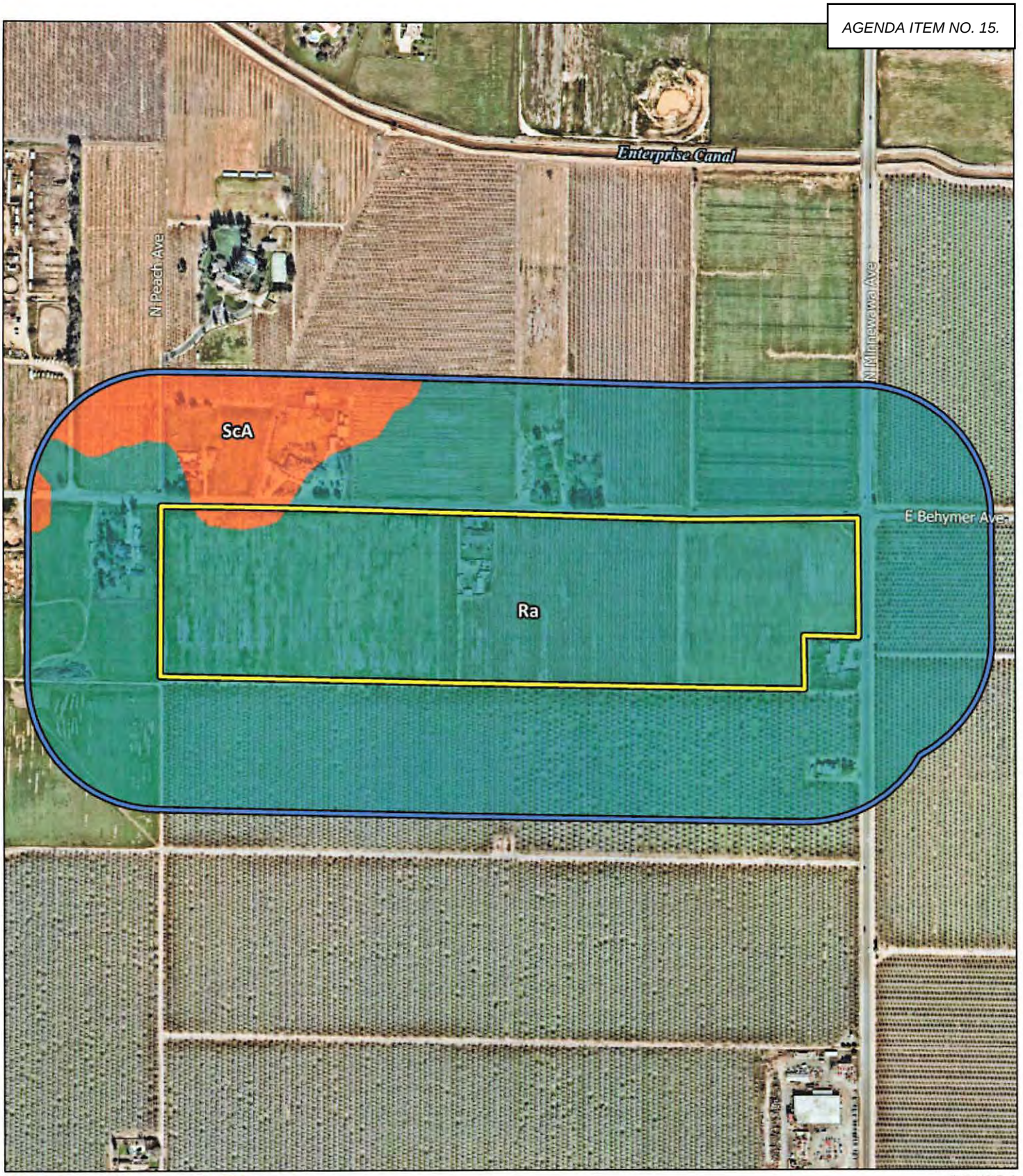
The Project vicinity is dominated by agricultural uses and rural residences. Adjacent land uses include East Behymer Avenue, orchards, and rural residences to the north; North Minnewawa Avenue and orchards to the east; orchards to the south; and North Peach Avenue, agriculture and rural residentials to the west. Urban residential and commercial development is approximately 0.5 mile further to the west.

### 4.1.3 Soils

The BSA is underlain by two soil types (Figure 3; NRCS 2024a).

**Ramona sandy loam:** This soil type underlies most of the Project site and consists of fine-loamy, mixed, and thermic soils found on nearly level to moderately steep terraces and fans. It is formed in alluvium derived primarily from granitic and similar rock sources. It is well-drained with moderately slow permeability and is commonly used for both irrigated and non-irrigated cultivation. This is not a hydric soil (NRCS 2024b).

**San Joaquin sandy loam, 0 to 3 percent slopes, Major Land Resource Area (MLRA) 17:** This soil type consists of moderately deep to hard pan, well and moderately well-drained soils formed in alluvium from mostly granitic sources. It is typically found on shallow slopes from near level to undulating terraces up to about 500 feet above sea level. It is typically used for cultivation and livestock grazing. This soil may be hydric in fan remnants and open depressions (NRCS 2024b).




LSA

FIGURE 3

Project Location

Biological Study Area

Soils

Ra - Ramona sandy loam

ScA - San Joaquin sandy loam, 0 to 3 percent slopes, MLRA 17

0 250 500

FEET

*Peach and Behymer Residential Project*

Soils Mapped within t

SOURCE: Nearmap (02/2024); USDA SSURGO (2024)

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### 4.1.4 Hydrology

No aquatic features were observed on site. The NWI and National Hydrography Dataset depict a riverine feature on the northwest boundary of the site that no longer exists (Figure 4; USGS 2024, USFWS 2024c). Review of historic aerial and topo maps suggest an irrigation ditch was present until sometime before 1972 when the ditch may have been replaced with underground piping (NETR 2024).

## 4.2 VEGETATION AND OTHER LAND COVER

Five habitat types were observed within the BSA: Ruderal, Orchard, Row Crop, Annual Grassland, and Developed (Figure 5). The acreages of each habitat within the BSA and Project site are provided in Table B. The habitats observed on site have been described in the context of the CWHR (Mayer and Laudenslayer 1988).

**Table B: Habitat Acreages Within the BSA and Project Site**

| Habitat Type | Acreages | |
|---|---|---|
| | BSA | Project Site |
| Ruderal | 24.86 | 24.13 |
| Orchard | 64.60 | 12.24 |
| Row Crop | 13.60 | 0.00 |
| Annual Grassland | 12.23 | 0.03 |
| Developed | 14.15 | 1.02 |

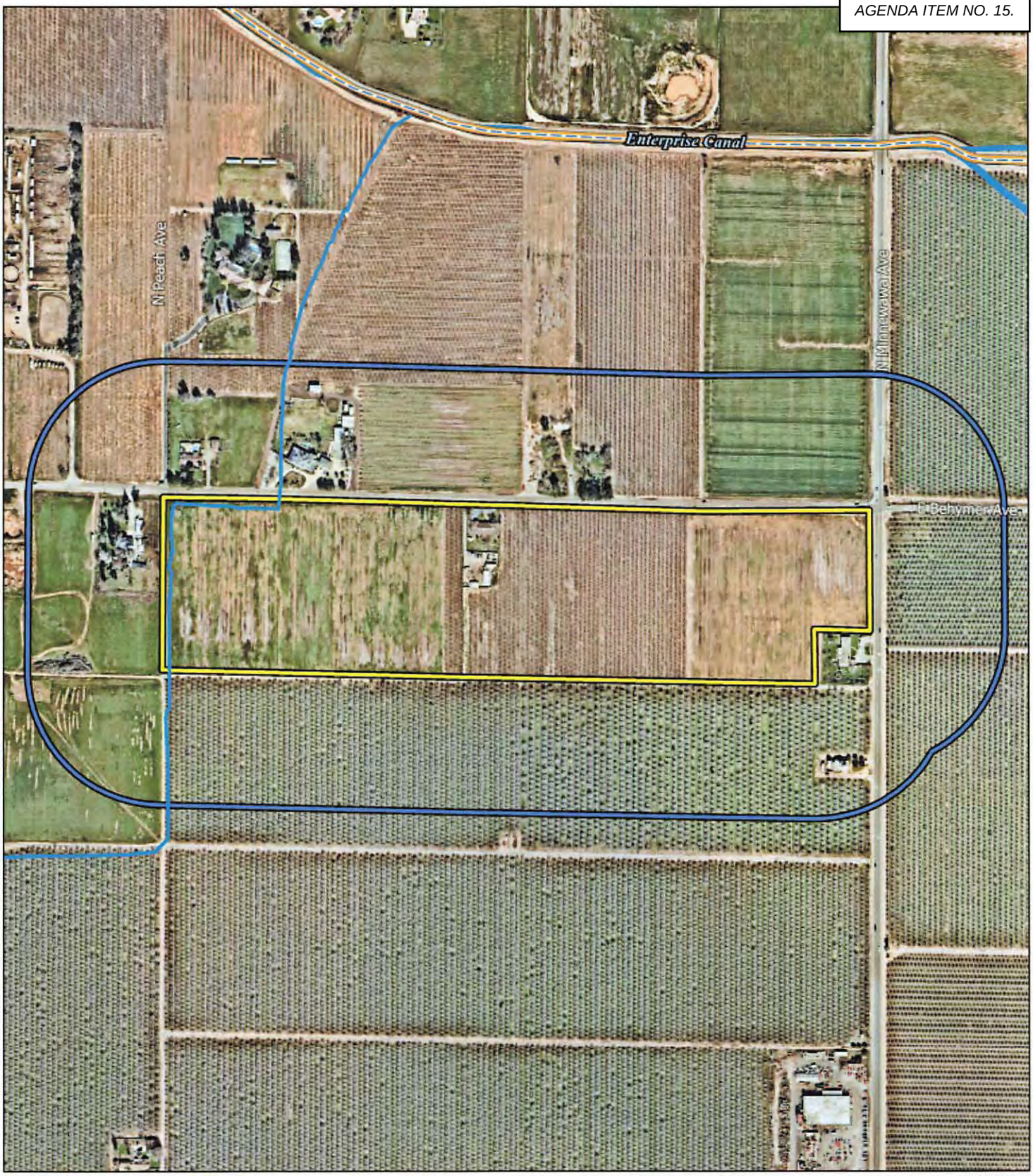
Source: LSA Site Visit, May 1, 2024.
BSA = Biological Study Area

### 4.2.1 Ruderal

The CWHR describes a habitat as barren if less than 2 percent is covered with vegetation (Mayer and Laudenslayer 1988). This includes habitats in which there are large stretches of bare ground between plant specimens, typically ruderal species, as well as graded and paved areas. Ruderal areas are present on the western and eastern portions of the Project site (Figure 5).

### 4.2.2 Orchard

Orchard is classified by the CWHR as an open, single species tree-dominated habitat. Typically, the tree species are low, bushy trees with an open understory. Orchards can include almonds, apples, apricots, cherries, figs, nectarines, peaches, pears, pecan, pistachios, plums, pomegranates, prunes, or walnuts. The understory may consist of low-growing grasses, legumes, and other herbaceous plant species or may be barren. Typically, this habitat is intensively maintained and has a constant available water source for irrigation. Orchards are present in the central portion of the Project site and throughout the BSA (Figure 5).




LSA

Project Location
Biological Study Area
Waterbody Connector
Canal

National Wetland Inventory
Marine
Estuarine
Palustrine
Riverine
Lacustrine

0 250 500
FEET

FIGURE 4

*Peach and Behymer Residential Project*

NWI and NH

SOURCE: Nearmap (02/2024); USFWS (2024)

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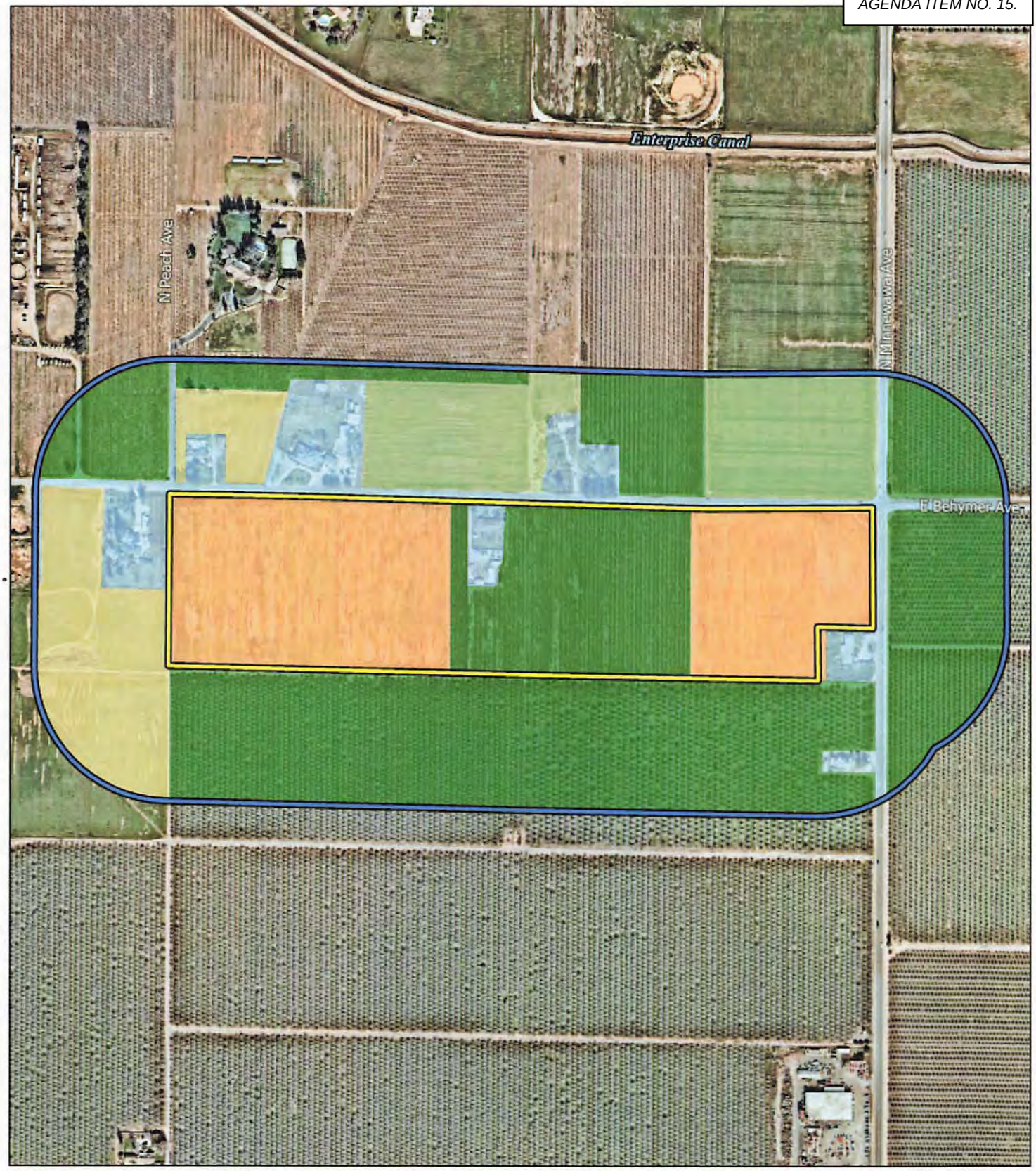


LSA

Project Location
Biological Study Area

Vegetation
Annual Grassland - 12.23 acres
Row Crop - 13.58 acres
Orchard - 64.60 acres
Ruderal - 24.86 acres
Developed - 14.15 acres

FIGURE 5

0 250 500
FEET

SOURCE: Nearmap (02/2024)

*Peach and Behymer Residential Project*

Vegetation Communities

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### 4.2.3 Row Crop

The CWHR identifies several types of row crop including Irrigated Row and Field Crops, Irrigated Grain Crops, and Irrigated Hayfield. Row crop habitats are monotypic habitats consisting of a single agricultural crop species grown over several acres and are usually irrigated. Row crop habitats are typically intensively maintained and are often subject to turnover multiple times per year. Row crop was observed within the BSA immediately north of the Project site (Figure 5).

### 4.2.4 Annual Grassland

The CWHR defines annual grassland as open grasslands dominated by annual grasses and forbs and with few or no trees (Mayer and Laudenslayer 1988). It is mostly commonly found on flat plains to gentle rolling foothills and often underlain by drier soils.

Annual grassland is not present on the Project site but is present on a private parcel adjacent to the southwest corner of the Project site. This habitat was not closely examined due to lack of access. Ripgut (*Bromus diandrus*) was observed from the perimeter as a dominant on this parcel (Figure 5).

### 4.2.5 Developed

Developed areas within the BSA correspond with the CWHR description for Urban, which is divided into five different categories: tree grove, street strip, shade tree/lawn, lawn, and shrub cover, each usually dominated by nonnative ornamental species. Developed habitat is present on the Project site at one rural residential location and includes rural residences elsewhere within the BSA (Figure 5).

## 4.3 GENERAL WILDLIFE OBSERVATIONS

Wildlife species detected included common raven (*Corvus corax*), northern mockingbird (*Mimus polyglottos*), red-tailed hawk (*Buteo jamaicensis*), California ground squirrel (*Otospermophilus beecheyi*), pocket gopher (*Thomomys bottae*) throws, and large domestic dog (*Canis familiaris*) tracks.

# 5.0 SPECIAL-STATUS RESOURCES

Local, State, and federal agencies regulate special-status species and other sensitive biological resources and require an assessment of their presence or potential for presence to be on site prior to the approval of proposed development on a property.

## 5.1 SPECIAL-STATUS SPECIES

Table C presents the list of special-status plant and animal species determined to have potential to occur on site and identifies whether the Project may affect the species and threaten the viability of the species population. The complete list of species evaluated for this Project is included in Appendix D. Each species is further discussed in the subsections below.

### Table C: Special-Status Species with Potential to Occur on Site

| Scientific Name<br>Common Name | Status<br>FESA/CESA | Potentially Affected by Project?<br>Yes/No | Viability Threat?<br>Yes/No |
|---|---|---|---|
| **Birds** | | | |
| *Buteo swainsoni*<br>Swainson's hawk | --/ST | Yes | No |

Source: Compiled by LSA (2024)
CESA = California Endangered Species Act
FESA = Federal Endangered Species Act
ST = State Threatened

### 5.1.1 Special-Status Plant Species

The literature review identified 20 special-status plant species known or with potential to occur in the vicinity of the Project (see evaluation table in Appendix D). None were found to have a potential to occur on site due to the lack of suitable habitat conditions.

### 5.1.2 Special-Status Animal Species

The literature review identified 31 special-status animal species known or with potential to occur in the vicinity of the Project (see evaluation table in Appendix A). Of those, one (1) was determined to have the potential to occur and be impacted by the Project:

- Swainson's hawk (*Buteo swainsoni*) – State Threatened

#### 5.1.2.1 Swainson's Hawk

***Buteo swainsoni* (Status: State Threatened).** Swainson's hawks occur in grassland, desert, and agricultural landscapes throughout the Central Valley and Antelope Valley (Bechard et al. 2020, Zeiner et al. 1990). Some hawks may be resident, especially in the southern portion of their range, while others may migrate between winter and breeding habitats. They prefer larger isolated trees or small woodlots for nesting, usually with grassland or dry-land grain fields nearby for foraging and have been known to nest in large eucalyptus trees along heavily traveled freeway corridors.

Swainson's hawks forage in grassland, open scrub, pasture, and dryland grain agricultural habitats, primarily for rodents. Swainson's hawks exhibit a moderate to high nest site fidelity for successful nest sites.

The nearest occurrence was recorded 2018 as a possible nest site located approximately 4 miles to the west (CDFW 2024a). A second occurrence recorded in nearly the same location in 2017 was of a pair of Swainson's hawks exhibiting courting behaviors.

There are not suitable nest trees on the Project site; however, there are several large trees within 0.5 mile of the Project site that could support nesting Swainson's hawks. There is evidence of a prey base on the Project site (pocket gophers) though the ruderal areas on site likely provide limited foraging opportunities.

### 5.1.3 Other Protected Species

The Project site has the potential to support nesting birds.

## 5.2 SENSITIVE NATURAL COMMUNITIES

### 5.2.1 Sensitive Plant Communities

The database search identified five sensitive plant communities within the search radius: Great Valley Mixed Riparian Forest, Northern Basalt Flow Vernal Pool, Northern Claypan Vernal Pool, Northern Hardpan Vernal Pool, and Sycamore Alluvial Woodland. No sensitive plant communities are present on site.

### 5.2.2 Critical Habitats

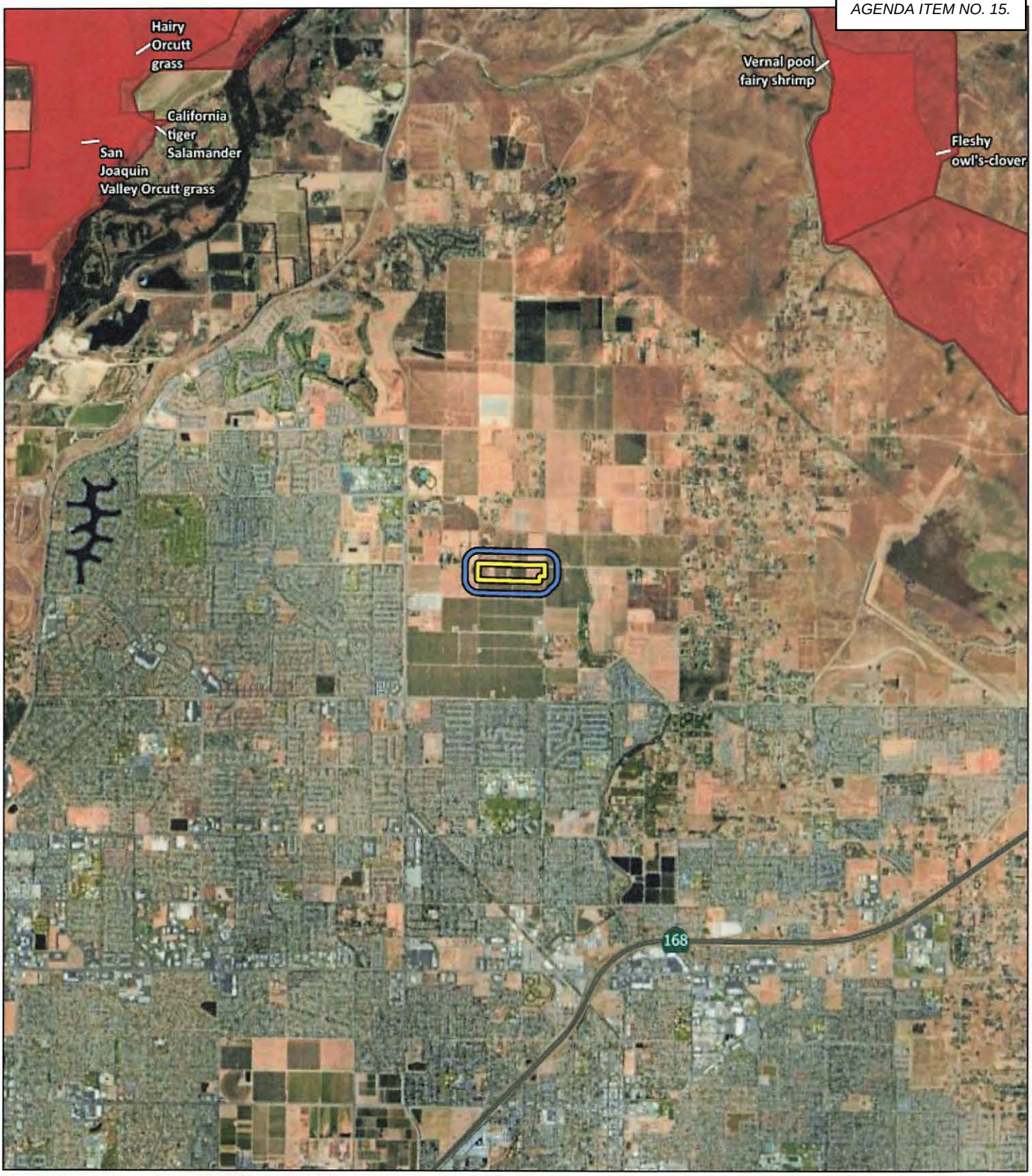
There are no federally designated critical habitats mapped over the BSA (Figure 6; USFWS 2024a).

## 5.3 JURISDICTIONAL AQUATIC RESOURCES

No potentially jurisdictional features are present on site.

## 5.4 WILDLIFE MOVEMENT

Wildlife movement corridors, also referred to as dispersal corridors or landscape linkages, are generally defined as linear features along which animals can travel from one habitat or resource area to another. Wildlife movement corridors can be large tracts of land that connect regionally important habitats that support wildlife in general, such as stop-over habitat that supports migrating birds or large, contiguous natural habitats that support animals with very large home ranges (e.g., coyotes [*Canis latrans*], mule deer [*Odocoileus hemionus californicus*]). They can also be small-scale movement corridors, such as riparian zones, that provide connectivity and cover to support movement at a local scale.




LSA

FIGURE 6

SOURCE: Google Imagery (2024); USFWS (2024)

*Peach and Behymer Residential Project*

Critical

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The BSA is not located within an identified wildlife movement corridor (CDFW 2024b). There are no features on site that would lend themselves specifically to wildlife movement (e.g., riparian corridors). The site is surrounded by a mix of rural residential and agricultural uses.

## 5.5 RESOURCES PROTECTED BY LOCAL POLICIES AND ORDINANCES

The City's General Plan includes policies for the protection of biological resources including:

- **Policy 2.6: Biological resources**. Support the protection of biological resources through the conservation of high quality habitat area.
- **Policy 2.7: Native plants**. Encourage the use of native and climate-appropriate plant species and prohibit the use of plant species known to be invasive.
- **Policy 2.8: Urban forest.** Maintain and enhance a diverse and healthy urban forest on public and private lands.

The City's Municipal Code includes specific provisions for the protection of trees, including those on private property (Chapter 9.30).

The Project site does not contain high quality habitat, and no sensitive plant species were detected during the site visit.

The ornamental trees located at the two residences on the Project site may be subject to the City's tree protection ordinance. The almond orchard trees on site are exempt from this ordinance (9.30.050 Exemptions).

## 5.6 HABITAT CONSERVATION PLANS

The BSA does not fall within the boundaries of a Habitat Conservation Plan (HCP), Natural Community Conservation Plan (NCCP), or other locally adopted habitat conservation plan (CDFW 2024b).

# 6.0 IMPACT EVALUATION AND RECOMMENDED AVOIDANCE, MINIMIZATION AND MITIGATION MEASURES

This section describes the potential biological resources impacts associated with development of the project based on the thresholds of significance listed in the *State CEQA Guidelines* Appendix G, Environmental Checklist, which are listed throughout, along with consideration for other federal and State laws.

## 6.1 SPECIAL-STATUS SPECIES

The proposed Project would have a significant effect on biological resources if it would:

***a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service.***

### 6.1.1 Project Impacts to Special-Status Plant Species

No special-status plant species have the potential to occur on site due to the highly disturbed nature of the Project site and the lack of suitable habitat conditions. The Project would have no impact on special-status plant species.

### 6.1.2 Project Impacts to Special-Status Animal Species

One special-status species was determined to have a potential to occur on site: Swainson's hawk.

#### 6.1.2.1 Swainson's Hawk

Several trees in the BSA and greater Project vicinity are suitable for nesting. The Project site provides limited foraging habitat. Swainson's hawks have been observed within 5 miles of the Project site as recently as 2018 (CDFW 2024a, 2024b).

Impacts to Swainson's hawk could occur if construction of the Project occurs during the nesting season and an active Swainson's hawk nest is disturbed by noise, vibration, or the presence of construction activity. The Project could also impact Swainson's hawk through the loss of suitable foraging habitat. Foraging habitat in the Project vicinity is limited, with more suitable grassland and grain field habitat to the north and west of the Project site. Development of the Project could contribute to the cumulative loss of foraging habitat as development continues in the region. Despite the potential for Swainson's hawk to occur on or near the Project site, these impacts would not jeopardize the continued existence of the species as they exhibit a moderate to high tolerance for disturbance around nests, and other areas of foraging habitat remain in the greater region.

#### 6.1.2.2 Nesting Birds

The BSA contains suitable habitat that could support a variety of ground and tree nesting bird species protected under the MBTA and the California Fish and Game Code. Impacts to active nests

could occur from direct disturbance of active nests during construction of the Project and from noise and vibration caused by construction activities. Based on the disturbed nature of the site and surrounding lands, construction of the Project is not expected to cause a significant reduction in nesting habitat in the region.

#### 6.1.2.3 Avoidance, Minimization, and Mitigation Measures

The following mitigation measures (MMs) are recommended to avoid, minimize, and/or mitigate impacts to special-status animal species.

**BIO-MM-1** **Pre-Activity Surveys for Swainson's Hawk Nests.** If Project activities must occur during the nesting season (February 15 to August 31), pre-activity surveys shall be conducted for Swainson's hawk nests within 14 days prior to the start of construction. The surveys would be conducted within the Project site plus a 0.5-mile buffer. The survey shall be conducted in accordance with the methodology outlined in existing protocols. Note that Swainson's hawks may establish a nest at any time from February through June; multiple Swainson's hawks nest surveys may be necessary in one season at the direction of a qualified biologist, depending on the timing of Project construction.

If no Swainson's hawk nests are found, no further action is required.

**BIO-MM-2** **Swainson's Hawk Nest Avoidance.** If an active Swainson's hawk nest is discovered at any time within 0.5 mile of active construction, a qualified biologist shall complete an assessment of the potential for current construction activities to impact the nest. The assessment shall consider the type of construction activities, the location of construction relative to the nest, the visibility of construction activities from the nest location, and other existing disturbances in the area that are not related to construction activities of this Project. Based on this assessment, the biologist shall determine if construction activities can proceed and if nest monitoring will be required. At a minimum, construction activities shall not occur within 100 feet of an active nest and shall require monitoring if within 500 feet of an active nest. These buffers may need to increase depending on the sensitivity of the nest location.

**BIO-MM-3** **Pre-Activity Nesting Bird Surveys**. If Project activities must occur during the nesting season (February 15 to August 31), pre-activity nesting bird surveys shall be conducted no more than 7 days prior to the start of construction at the construction site plus a 250-foot buffer for songbirds and a 500-foot buffer for raptors (other than Swainson's hawk). If no active nests are found, no further action is required; however, note that nests may become active at any time throughout the summer, including when construction activities are occurring. If active nests are found during the survey or at any time during Project construction, an avoidance buffer ranging from 50 feet to 350 feet shall be required, as determined by a qualified biologist. The avoidance buffer shall remain in place until the biologist has determined that the young are no longer reliant on the nest. Work may occur within the avoidance

buffer under the approval and guidance of the biologist. The biologist shall have the ability to stop construction if nesting adults show sign of distress.

**Significance After Mitigation.** Implementation of the mitigation measures above will reduce Project impacts to special-status species to a less than significant level.

## 6.2 SENSITIVE NATURAL COMMUNITIES AND CRITICAL HABITAT

The proposed Project would have a significant effect on biological resources if it would:

***b) Have a substantial adverse impact on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or US Fish and Wildlife Service.***

The BSA does not overlap critical habitat, and there are no sensitive natural communities present. Therefore, the Project would have no impacts to sensitive natural communities and no measures are required.

## 6.3 JURISDICTIONAL AQUATIC RESOURCES

The proposed Project would have a significant effect on biological resources if it would:

***c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.***

No jurisdictional aquatic resources are present on the Project site. No impacts to jurisdictional aquatic resources would occur with construction of the Project and no measures are required.

## 6.4 WILDLIFE MOVEMENT

The proposed Project would have a significant effect on biological resources if it would:

***d) Interfere substantially with the movement of any resident or migratory fish or wildlife species or with established resident or migratory wildlife corridors, or impede the use of wildlife nursery sites.***

The Project site does not intersect any regional or local wildlife movement corridors, nor does it support an important wildlife nursery site. No impacts to wildlife movement or nursery sites would occur and no measures are required.

## 6.5 LOCAL POLICIES AND ORDINANCES

The proposed Project would have a significant effect on biological resources if it would:

***e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.***

The Project will not conflict with general plan policies designed to protect biological resources as the Project site does not contain high quality habitat. Ornamental trees located at the residences may be subject to the City's tree protection ordinance. Complying with the City's tree removal requirements will satisfy this ordinance and no conflict would occur. Orchard trees are not subject to this ordinance and may be removed without a permit.

## 6.6 ADOPTED OR APPROVED PLANS

The proposed Project would have a significant effect on biological resources if it would:

***f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state habitat conservation plan.***

The Project is not located within the boundaries of an adopted HCP, NCCP, or other habitat conservation plan. Development of the Project would not conflict with any habitat conservation plan, and no measures are required.

# 7.0 LIMITATIONS, ASSUMPTIONS, AND USE RELIANCE

This BRE has been performed in accordance with professionally accepted biological investigation practices conducted at this time and in this geographic area. The findings and opinions conveyed in this report are based on findings derived from site reconnaissance, and specified historical and literature sources. The biological investigation is limited by the scope of work performed. Reconnaissance biological surveys for certain taxa may have been conducted as part of this assessment but were not performed during a particular blooming period, nesting period, or particular portion of the season when positive identification would be expected if present and, therefore, cannot be considered definitive. The biological surveys are limited also by the environmental conditions present at the time of the surveys. In addition, general biological (or protocol) surveys do not guarantee that the organisms are not present and would not be discovered in the future within the site. For example, mobile animal species could occupy the site on a transient basis or re-establish populations in the future. No other guarantees or warranties, expressed or implied, are provided.

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- Carie Wingert, Senior Biologist

# APPENDIX A

# REGULATORY SETTING

# A.1 REGULATORY SETTING

## A.1.1 Federal Laws and Regulations

### A.1.1.1 Federal Endangered Species Act of 1973 (USC Title 16, Sections 1531–1543)

The federal Endangered Species Act (FESA) and subsequent amendments provide guidance for the conservation of endangered and threatened species and the ecosystems upon which they depend. FESA defines species as threatened or endangered and provides regulatory protection for listed species. FESA provides a program for the conservation and recovery of threatened and endangered species, as well as the protection of designated critical habitat that the United States Fish and Wildlife Service (USFWS) determines is required for the survival and recovery of listed species. The USFWS and National Marine Fisheries Service (NMFS) share responsibilities for administering FESA.

Section 9 of FESA prohibits the "take" of species listed by the USFWS as threatened or endangered. Although take of a listed species is prohibited, it is allowed when it is incidental to an otherwise legal activity. As defined by FESA, taking means "...to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect or attempt to engage in such conduct." The definition of "harm" includes significant habitat modification or degradation that results in death or injury to listed species by significantly impairing behavioral patterns related to breeding, feeding, or shelter. "Harass" is defined as actions that create the likelihood of injury to listed species by disrupting normal behavioral patterns related to breeding, feeding, and shelter significantly.

Section 7 of FESA requires federal agencies, in consultation with and with assistance from the Secretary of the Interior or the Secretary of Commerce, as appropriate, to ensure that actions they authorize, fund, or carry out are not likely to jeopardize the continued existence of threatened or endangered species or result in the destruction of adverse modification of critical habitat for these species. Regulations governing interagency cooperation under Section 7 are found in California Code of Regulations (CCR) Title 50, Part 402. If an activity could result in "take" of a listed species as an incident of an otherwise lawful activity, then a biological opinion can be issued with an incidental take statement that exempts the activity from FESA's take prohibitions.

Section 10 provides a means whereby a nonfederal action with the potential to result in take of a listed species can be allowed under an incidental take permit. Application procedures are found at Code of Federal Regulations (CFR) Title 50, Sections 13 and 17, for species under the jurisdiction of USFWS and CFR, Title 50, Sections 217, 220, and 222, for species under the jurisdiction of NMFS. Section 10 would apply to the Project if take of a species (as defined in Section 9) were determined to occur.

Sections 4(a)(3) and (b)(2) of FESA require the designation of critical habitat to the maximum extent possible and prudent based on the best available scientific data and after considering the economic impacts of any designations. Critical habitat is defined in Section 3(5)(A) of FESA as: (1) areas within the geographic range of a species that are occupied by individuals of that species and contain the primary constituent elements (physical and biological features) essential to the conservation of the species, thus warranting special management consideration or protection; and (2) areas outside of the geographic range of a species at the time of listing but that are considered essential to the conservation of the species.

### A.1.1.2 Migratory Bird Treaty Act (USC Title 16, Sections 703–711)

The Migratory Bird Treaty Act (MBTA), first enacted in 1918, is the result of a series of treaties that the United States has with Great Britain (on behalf of Canada), Mexico, Japan, and the former Soviet Union that provide for international migratory bird protection. The MBTA authorizes the Secretary of the Interior to regulate the taking of migratory birds. The act provides that it shall be unlawful, except as permitted by regulations, "to pursue, take, or kill any migratory bird, or any part, nest or egg of any such bird" (United States Code [USC] Title 16, Section 703). The MBTA currently includes several hundred species and includes all birds native to the United States.

### A.1.1.3 Bald and Golden Eagle Protection Act of 1940 (USC Title 16, Section 668)

The Bald and Golden Eagle Protection Act (BGEPA) of 1940 protects bald eagles (*Haliaeetus leucoephalus*) and golden eagles (*Aquila chrysaetos*) by prohibiting the taking, possession, and commerce of these species and established civil penalties for violation of this act. Take of bald and golden eagles includes to "pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb." To disturb means to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available: (1) injury to an eagle; (2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior; or (3) nest abandonment, by substantially inferring with normal breeding, feeding, or sheltering behavior (*Federal Register*, volume 72, page 31132; 50 CFR 22.3).

The BGEPA was amended in 2022 to allow USFWS to issue permission for take of bald and golden eagles under specific circumstances as outlined in 50 CFR 22 Subpart C. Take permits may be issued where "the take is compatible with the preservation of the bald eagle and the golden eagle; is necessary to protect an interest in a particular locality; is associated with, but not the purpose of, the activity; and cannot practicably be avoided" (50 CFR 22.80).

### A.1.1.4 Federal Clean Water Act (USC, Title 33, Sections 1521–1376)

The federal Clean Water Act (CWA) provides guidance for the restoration and maintenance of the chemical, physical, and biological integrity of the nation's waters.

Section 404 establishes a permit program administered by the United States Army Corps of Engineers (USACE) that regulates the discharge of the dredged or fill material into waters of the United States, including wetlands. The USACE implementing regulations are found in CFR Title 33, Sections 320 and 330. Guidelines for implementation are referred to as the Section 404(b)(1) Guidelines, which were developed by the United States Environmental Protection Agency (USEPA) in conjunction with USACE (40 CFR 230). The guidelines allow the discharge of dredged or fill material into the aquatic system only if there is no practicable alternative that would have less adverse impacts.

Section 401 requires that a Project applicant that is pursuing a federal license or permit allowing a discharge to waters of the United States obtain State Certification of Water Quality, thereby ensuring that the discharge will comply with provisions of the CWA. The State Water Resources Control Board (SWRCB) administers the certification program in California, primarily through its

regional boards. Section 402 establishes a permitting system for the discharge of any pollutant (except dredged or fill material) into waters of the United States.

Under Section 10 of the Rivers and Harbors Act, the USACE regulates the construction of any structure in or over any navigable water of the United States. Navigable waters are defined as "those waters of the U.S. that are subject to the ebb and flow of the tide shoreward to the mean high water mark, and/or are presently used, or have been used in the past, or may be susceptible to use to transport interstate or foreign commerce."

### A.1.2 Applicable State Laws and Regulations

#### A.1.2.1 California Environmental Quality Act (California Public Resources Code, Sections 21000–21178, and Title 14 CCR, Section 753, and Chapter 3, Sections 15000–15387)

The California Environmental Quality Act (CEQA) is California's broadest environmental law. CEQA helps guide the issuance of permits and approval of projects. Courts have interpreted CEQA to afford the fullest protection of the environment within the reasonable scope of the statutes. CEQA applies to all discretionary projects proposed to be conducted or approved by a State, county, or city agency, as well as private projects requiring discretionary government approval.

The purpose of CEQA is to disclose to the public the significant environmental effects of a proposed discretionary project; prevent or minimize damage to the environment through development of project alternatives, mitigation measures, and mitigation monitoring; disclose to the public the agency decision-making process to approve discretionary projects; enhance public participation in the environmental review process; and improve interagency coordination.

*State CEQA Guidelines* Section 15380(b) provides that a species not listed on the federal or State list of protected species nonetheless may be considered rare or endangered for purposed of CEQA if the species can be shown to meet certain specified criteria. These criteria have been modeled after the definition in FESA and the section of the California Fish and Game Code dealing with rare or endangered plants or animals.

#### A.1.2.2 California Endangered Species Act (California Fish and Game Code Section 2050 et seq.)

The California Endangered Species Act (CESA) establishes the policy of the State to conserve, protect, restore, and enhance threatened or endangered species and their habitats. CESA mandates that State agencies should not approve projects that would jeopardize the continued existence of threatened or endangered species if reasonable and prudent alternatives are available that would avoid jeopardy. For projects that would result in take of a species listed under CESA, a project proponent would need to obtain a take permit under Section 2081(b). Alternatively, the California Department of Fish and Wildlife (CDFW) has the option of issuing a Consistency Determination (Section 2080.1) for projects that would affect a species listed under both CESA and FESA, as long as compliance with FESA would satisfy the "fully mitigate" standard of CESA and other applicable conditions.

### A.1.2.3 Porter-Cologne Water Quality Control Act

"Waters of the State" are broadly defined by the Porter-Cologne Water Quality Control Act (§ 1305(e)) as "any surface water or groundwater, including saline waters, within the boundaries of the state." Under this definition, isolated wetlands that may not be subject to regulations under federal law are waters of the State.

The California Water Code defines "waters of the State" to include any surface water or groundwater, including saline waters, within the boundaries of the State.

On April 2, 2019, the SWRCB adopted its *State Policy for Water Quality Control: State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State* (revised April 6, 2021), herein referred to as Procedures, in which it defined wetlands as follows:

> *An area is wetland if, under normal circumstances, (1) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; (2) the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and (3) the area's vegetation is dominated by hydrophytes or the area lacks vegetation.*

All artificial wetlands that are less than 1 acre in size and do not satisfy the criteria set forth in 2, 3.a, 3.b, or 3.c are not waters of the State.

All waters of the United States, including that meet the current and any historic definition, are also considered waters of the State (CCR 23 3831 (w)). Therefore, waters of the State include features that have been determined by the USEPA or the USACE to be "waters of the United States" in an approved jurisdictional determination; "waters of the United States" identified in an aquatic resource report verified by the USACE upon which a permitting decision was based; and features that are consistent with any current or historic final judicial interpretation of "waters of the United States" or any current or historic federal regulation defining "waters of the United States" under the federal CWA.

The State's definition of a wetland deviates from the USACE procedures in that a lack of vegetation does not disqualify a feature from identification as a wetland water of the State, otherwise referred to as nonfederal waters of the State.

The State is further required to comply with Executive Order W-59-93 published August 23, 1993, which states that the "Water Boards' regulation of dredge and fill activities must ensure "no net loss" and long-term net gain in the quantity, quality, and permanence of wetlands acreages and values…"

### A.1.2.4 Various Sections of the California State and Fish and Game Code

**Section 460 and Sections 4000-4003.** Chapter 5 of the California Fish and Game Code describes regulations concerning the take of furbearing mammals, including defining methods of take, seasons of take, bag and possession limits, and areas of the State where take is allowed. Sections 4000–4003 define furbearing mammals and the issuance of permits by the Department. Sections 460 and 4000

identify fisher, marten, river otter, desert kit fox, and red fox as furbearing mammals, and Section 460 prohibits take of these species at any time. This section of the California Fish and Game Code has historically been interpreted to apply to restrictions on furbearer trapping permits but has recently been expanded by CDFW to apply to any forms of take and treated as if these species were listed under CESA.

**Sections 1600 through 1616.** CDFW regulates all activities (construction, discharge, dredge, diversion, etc.) within rivers, streams, and lakes, and associated riparian vegetation, under California Fish and Game Code Section 1600 *et seq*. This includes all such features on public and private lands throughout California. The regulatory limits of their jurisdiction are generally considered to include all area within the bed, bank, and channel of a river, stream, or lake, plus the outer extent of riparian vegetation immediately adjacent to these aquatic features. Recently CDFW has asserted jurisdiction as far out as the limits of the 100-year floodplain around rivers, streams, and lakes. This also includes man-made and/or channelized streams located where natural streams historically occurred, or that are connected to natural streams. Isolated wetlands that are not located within the jurisdictional limits described here are not regulated by CDFW.

**Sections 3511, 4700, 5050, and 5515.** The protection of fully protected species is described in Sections 3511, 4700, 5050, and 5515 of the California Fish and Game Code. These statues prohibit the take or possession of fully protected species. CDFW is unable to authorize incidental take of fully protected species, except as allowed for in an approved Natural Communities Conservation Plan (NCCP) or through direct legislative action.

**Sections 1900 through 1913—Native Plant Protection Act.** California's Native Plant Protection Act (NPPA) requires all State agencies to use their authority to carry out programs to conserve endangered and rare native plants. Provision of the NPPA prohibit that taking of listed plants from the wild and require notification of CDFW at least 10 days in advance of any change in land use. This allows CDFW to salvage listed plant species that otherwise would be destroyed. A project proponent is required to conduct botanical inventories and consult with CDFW during project planning to comply with the provisions of this act and sections of CEQA that apply to rare or endangered plants.

## A.1.3 Local and Regional Laws, Regulations, and Policies

### A.1.3.1 City of Clovis General Plan

Table A.1 highlights the specific policies in the City's General Plan Open Space and Conservation Element (City of Clovis 2014) related to biological resources that are applicable to the Project site.

### A.1.3.2 Local Ordinances

Chapter 9.30 of the City's municipal code outlines the requirements for the protection of trees within the city limits, including requirements for permits prior to removal of any tree on private property (9.30.020) and defines protected trees (9.30.040) as including heritage trees, any tree required to be planted or retained as a condition of approval, multi-trunk trees, any tree with a diameter of 12 inches or more when measure four feet above grade, parkway trees, and any tree memorialized under a site plan review.

## Table A.1: Open Space and Conservation Element

| **Goal 2: Natural, agricultural, and historic resources that are preserved and promoted as key features for civic pride and identity** | |
|---|---|
| Policy 2.1 | Stewardship. Promote responsible planning and management of land and resources among property owners. |
| Policy 2.2 | New development. Encourage new development to incorporate on-site natural resources and low impact development techniques. |
| Policy 2.3 | Visual resources. Maintain public views of open spaces, parks, and natural features. Enhance views along roadways and trails. Preserve Clovis' viewshed of the surrounding foothills and orient new development to capitalize on views of the Sierra Nevada. |
| Policy 2.4 | Agricultural lands. Preserve the city's agricultural legacy through the Agricultural land use designation, memorialize agricultural history and culture, and facilitate thoughtful conversion of lands to development. |
| Policy 2.5 | Right to farm. Support, encourage, and protect agricultural operations within Clovis and recognize their right to farm. |
| **Policy 2.6** | **Biological resources. Support the protection of biological resources through the conservation of high quality habitat area.** |
| **Policy 2.7** | **Native plants. Encourage the use of native and climate-appropriate plant species and prohibit the use of plant species known to be invasive.** |
| **Policy 2.8** | **Urban forest. Maintain and enhance a diverse and healthy urban forest on public and private lands.** |
| Policy 2.9 | National and state historic resources. Preserve historical sites and buildings of state or national significance in accordance with the Secretary of Interior Standards for Historic Rehabilitation. |
| Policy 2.10 | Local historic resources. Encourage property owners to maintain the historic integrity of the site by (listed in order of preference): preservation, adaptive reuse, or memorialization. |
| Policy 2.11 | Old Town. Prioritize the preservation of the historic character and resources of Old Town. |
| Policy 2.12 | Public education. Support public education efforts for residents and visitors about the unique historic, natural, and cultural resources in Clovis. |

Source: (City of Clovis 2014)

# APPENDIX B

# REPRESENTATIVE SITE PHOTOS



**Photo 1:** View of project site looking southwest from eastern project boundary.



**Photo 2:** View of western edge of project site, looking south from northwest corner.



**Photo 3:** View of orchard in central portion of project site, looking south from northern Behymer Avenue.



**Photo 4:** View of residence on eastern boundary of project site, looking east.

APPENDIX B

# APPENDIX C

# PLANT AND ANIMAL SPECIES OBSERVED WITHIN THE BIOLOGICAL STUDY AREA

## Table C.1: Plant Species Observed within the Biological Study Area

| Scientific Name | Common Name | Status | Native or Introduced |
|---|---|---|---|
| **Trees** | | | |
| *Prunus dulcis* | sweet almond | None | Introduced |
| **Herbs** | | | |
| *Amsinckia* sp. | fiddleneck | None | Native |
| *Convolvulus arvensis* | field bindweed | None | Introduced |
| *Erodium botrys* | long beaked filaree | None | Introduced |
| *Erodium cicutarium* | red stemmed filaree | None | Introduced; Cal-IPC Limited |
| *Lactuca serriola* | prickly lettuce | None | Introduced |
| *Malva parviflora* | cheeseweed | None | Introduced |
| *Matricaria discoidea* | pineapple weed | None | Native |
| **Grasses** | | | |
| *Bromus diandrus* | ripgut | None | Introduced; Cal-IPC Moderate |
| *Bromus hordeaceus* | soft chess | None | Introduced; Cal-IPC Limited |
| *Cynodon dactylon* | Bermuda grass | None | Introduced; Cal-IPC Moderate |

Source: LSA Site Visit, May 1, 2024.
Notes: Rating system: **High** = several ecological impacts; **Moderate** = substantial but not severe ecological impacts; **Limited** = minor ecological impacts or not enough information to justify higher score; **Alert** = species ranked as High or Moderate with limited distribution, but potential to spread; **Watch** = could pose a high risk of becoming invasive in the future.
Cal-IPC = California Invasive Plant Council.

## Table C.2: Animal Species Observed within the Biological Study Area

| Scientific Name | Common Name | Status | Native or Introduced |
|---|---|---|---|
| **Birds** | | | |
| *Buteo jamaicensis* | red-tailed hawk | None | Native |
| *Corvus corax* | common raven | None | Native |
| *Mimus polyglottos* | northern mockingbird | None | Native |
| **Mammals** | | | |
| *Thomomys bottae* | pocket gopher | None | Native |
| *Otospermophilus beecheyi* | California ground squirrel | None | Native |

Source: LSA Site Visit, May 1, 2024.

# APPENDIX D

# SPECIAL-STATUS SPECIES EVALUATION

## Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

| Scientific Name<br>Common Name | Status<br>(FESA/CESA<br>CRPR/CDFW) | Habitat Requirements | Potential to Occur | Rationale |
|---|---|---|---|---|
| **Plants** | | | | |
| *Calycadenia hooveri*<br><br>Hoover's calycadenia | --/--<br>1B.3 | Annual herb; blooms July to September; cismontane woodland, valley and foothill grassland; usually on rocky substrate; elevation 215 to 985 feet; presumed extant in Central Valley from San Joaquin County south to Madera County. | No | No suitable habitat present. |
| *Calycadenia spicata*<br><br>spicate calycadenia | --/--<br>1B.3 | Annual herb; blooms May to September; cismontane woodland, valley and foothill grassland; variable microhabitat; elevation 130 to 4,595 feet; multiple presumed extant records in Central Valley from Butte County south to Kern County. | No | No suitable habitat present. |
| *Carpenteria californica*<br><br>tree-anemone | --/ST<br>1B.2 | Perennial evergreen shrub; blooms May to July, sometimes as early as April; chaparral, cismontane woodland; usually on granitic soils; elevation 1,115 to 4,395 feet; only known from Madera and Fresno County foothills. | No | No suitable habitat present and project outside known elevational range. |
| *Castilleja campestris* var. *succulenta*<br><br>succulent owl's clover | --/--<br>1B.2 | Annual herb (hemiparasitic); blooms April to May, and sometimes as early as March; vernal pools, often acidic; 165–2,460 feet; Central Valley floor from San Joaquin County south to Fresno County. | No | No suitable habitat present. |
| *Caulanthus californicus*<br><br>California jewelflower | FE/SE<br>1B.1 | Annual herb; blooms Feb to May; chenopod scrub, pinyon and juniper woodland, and valley/foothill grassland; usually on sandy soils; elevation 200–3,280 feet; documented in Fresno, Kern, San Luis Obispo, Kings, Tulare, and Santa Barbara Counties. | No | No suitable habitat present. |
| *Cryptantha hooveri*<br><br>Hoover's cryptantha | --/--<br>1A | Annual herb; blooms April to May; inland dunes, valley and foothill grassland (sandy soils); elevation 30-490 feet; scattered presumed extant occurrences in Sacramento, Contra Costa, Stanislaus, and Madera Counties; may be extirpated in California. | No | No suitable habitat present. |
| *Downingia pusilla*<br><br>dwarf downingia | --/--<br>2B.2 | Annual herb; blooms March to May; vernal pools, valley and foothill grasslands (mesic); elevation 5-1,460 feet; scattered occurrences in the Central Valley from Tehama County south to Fresno County and in the Bay Area. | No | No suitable habitat present. |

## Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

| Scientific Name<br>Common Name | Status<br>(FESA/CESA<br>CRPR/CDFW) | Habitat Requirements | Potential to Occur | Rationale |
|---|---|---|---|---|
| *Eryngium spinosepalum*<br>spiny-sepaled button-celery | --/--<br>1B.2 | Annual or perennial herb; blooms April to May; occurs in valley and foothill grassland, particularly in vernal pools, from 260 to 3,200 feet elevation. | No | No suitable habitat present. |
| *Gratiola heterosepala*<br>Boggs Lake hedge-hyssop | --/SE<br>1B.2 | Annual herb; blooms April to August; marshes and swamps (incl. lake margins), vernal pools; clay soils; elevation 35 to 7,790 feet; scattered occurrences in northern California from Modoc County south to Fresno County. | No | No suitable habitat present. |
| *Imperata brevifolia*<br>California satintail | --/--<br>2B.1 | Perennial rhizomatous herb; blooms September to May; chaparral, coastal scrub, Mojavean desert scrub, riparian scrub, meadows, and seeps; usually mesic conditions; elevation 0 to 3,985 feet; documented throughout California in the Central Valley, the Mojave desert, and southern California. | No | No suitable habitat present. |
| *Lagophylla dichotoma*<br>forked hare-leaf | --/--<br>1B.1 | Annual herb; blooms April to May; cismontane woodland and valley and foothill grassland; sometimes on clay soils; elevation 150 to 1,100 feet; known only from Central Valley from Calaveras County to Fresno County. | No | No suitable habitat present. |
| *Leptosiphon serrulatus*<br>Madera leptosiphon | --/--<br>1B.2 | Annual herb; blooms April to May; cismontane woodland; lower montane conifer forest; elevation 985 to 4,265 feet; documented in the Central Valley from Mariposa County south to Kern County. | No | No suitable habitat present. |
| *Lupinus citrinus* var. *citrinus*<br>orange lupine | --/--<br>1B.2 | Annual herb; blooms April to July; chaparral, cismontane woodland, lower montane conifer forest; granitic substrate; elevation 1,245 to 5,580 feet; only known from Madera and Fresno County foothills. | No | No suitable habitat present and project outside known elevational range. |
| *Navarretia myersii* ssp. *myersii*<br>pincushion navarretia | --/--<br>1B.1 | Annual herb; blooms April and May; vernal pools; often acidic soils; elevation 65 to 1,085 feet; known from Central Valley from Placer County south to Fresno County. | No | No suitable habitat present. |
| *Orcuttia inaequalis*<br>San Joaquin Valley Orcutt grass | FT/SE<br>1B.1 | Annual herb; blooms April–September; vernal pools; 35 to 2,475 feet; Central Valley from Solano County south to Tulare County. | No | No suitable habitat present. |
| *Orcuttia pilosa*<br>hairy Orcutt grass | FE/SE<br>1.B1 | Annual herb; blooms May–September; vernal pools; 150 to 655 feet; scattered occurrences in Tehama, Glenn, Stanislaus, Merced, and Madera Counties. | No | No suitable habitat present. |

## Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

| Scientific Name<br>Common Name | Status<br>(FESA/CESA<br>CRPR/CDFW) | Habitat Requirements | Potential to Occur | Rationale |
|---|---|---|---|---|
| *Pseudobahia bahiifolia*<br>Hartweg's golden sunburst | FE/SE<br>1B.1 | Annual herb; blooms March to April; cismontane woodland, valley and foothill grassland; often on acidic clay soils; elevation 50 to 490 feet; widely scattered occurrences from Yuba County south to Fresno County; extirpated from southern California and mostly extirpated from Central Valley. | No | No suitable habitat present. |
| *Pseudobahia peirsonii*<br>San Joaquin adobe sunburst | FT/SE<br>1B.1 | Annual herb; blooms March to April; occurs in cismontane woodland and valley and foothill grassland (on adobe clay) from 295 to 2,625 feet elevation. | No | No suitable habitat present. |
| *Sagittaria sanfordii*<br>Sanford's arrowhead | --/--<br>1B.2 | Perennial rhizomatous herb (emergent); blooms May–October and sometimes into November; marshes and swamps (shallow freshwater); 0 to 2,135 feet; scattered occurrences in northern California, the Central Valley, the Bay Area, and the Los Angeles area. | No | No suitable habitat present. |
| *Tuctoria greenei*<br>Greene's tuctoria | FE/SR<br>1B.1 | Annual herb; blooms May–July and sometimes September; vernal pools; 100 to 3,510 feet; Central Valley from San Joaquin County to Tulare County; valley floor in Tehama, Glenn, and Butte Counties, and the Modoc plateau area. | No | No suitable habitat present. |
| **Invertebrates** | | | | |
| *Bombus crotchii*<br>Crotch bumble bee | --/SC | Nearly endemic to California; occurs in grassland and shrublands in southern and central California; flight period for queens is from late February to late October; flight period for workers and males is from Late March through September; nests underground; likely overwinters in soft soil or under leaf litter; generalist forager. | No | No suitable habitat present. Site heavily disturbed. |
| *Branchinecta conservatio*<br>Conservancy fairy shrimp | --/ST | California endemic found in large, turbid vernal pools and wetlands in valley and foot grassland in the Central Valley. Pools usually found in swales formed by old, braided alluvium and usually last until June. | No | No aquatic habitat present. |

## Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

| Scientific Name<br>Common Name | Status<br>(FESA/CESA<br>CRPR/CDFW) | Habitat Requirements | Potential to Occur | Rationale |
|---|---|---|---|---|
| *Branchinecta lynchi*<br><br>vernal pool fairy shrimp | FT/-- | Occur in a variety of vernal pool habitats that range from small, clear pools to large, turbid and alkaline pools; more common in pools less than 0.05 acre, typically as part of larger vernal pool complexes; adults active from early December to early May; pools must hold water for at least 18 days, the minimum to complete the life cycle if temperatures are optimal; eggs are laid in spring and persist through the dry season as cysts; current California distribution includes the Central Valley and coast ranges; threatened by habitat loss, degradation, and fragmentation, and interference with vernal pool hydrology. | No | No aquatic habitat present. |
| *Danaus plexippus*<br><br>monarch butterfly | FC/-- | Migrant; lays eggs on milkweed (primarily *Asclepias* spp.); overwinters along the coast in dense stands of eucalyptus, Monterey pine, and Monterey cypress that provide indirect sunlight, moisture for hydration, protection from winds, and above-freezing temperatures. | No | No suitable wintering or breeding habitat present. |
| *Desmocerus californicus dimorphus*<br><br>valley elderberry longhorn beetle | FT/-- | Requires elderberry shrubs for reproduction and survival, with stems greater than 1 inch; occurs only in the Central Valley north of the San Joaquin River; occurs below 500 feet elevation; eggs laid on elderberry shrubs; larvae burrow into stems for food and metamorphosis; adults emerge from the stem and spend the remainder of their lives on the same shrub or on the ground underneath. | No | No elderberry shrubs present. |
| *Lepidurus packardi*<br><br>vernal pool tadpole shrimp | E/SA/-- | Vernal pools and swales in the Sacramento Valley containing clear to highly turbid water. Pools commonly found in grass bottomed swales of unplowed grasslands; some pools are mud-bottomed. | No | No aquatic habitat present. |

## Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

| Scientific Name<br>Common Name | Status<br>(FESA/CESA<br>CRPR/CDFW) | Habitat Requirements | Potential to Occur | Rationale |
|---|---|---|---|---|
| **Amphibians** | | | | |
| *Ambystoma californiense*<br><br>California tiger salamander | FT/ST<br>SSC | Small salamander found in vernal and seasonal pools and associated grasslands, oak savanna and woodland, and coastal scrub in the Central Valley from Tulare County north to the Sacramento area and along the Central Coast from Santa Barbara County north to the San Francisco Bay; 0–3,200 feet elevation; spends most of the year in small mammal burrows; breeding season is November–February; requires seasonal ponds for breeding and egg laying; can travel more than 3,000 feet between aquatic and upland habitats. | No | No aquatic habitat present on-site. Site has been heavily disturbed for agricultural use for decades. No presumed extant CNDDB records within known dispersal distance of 1.5 miles from project site. One unprocessed CNDDB record approximately 1.5 miles to east of individuals near Fowler Avenue and is separated from project site by Enterprise Canal, which appears to carry water year round and thus acts and a barrier. Nearest seasonal wetland is approximately 0.5 mile to northeast based on NWI mapping and is also separated from project site by Enterprise Canal. |
| *Rana aurora draytonii*<br><br>California red-legged frog | T/CSC/-- | Lowland and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation and associated upland habitat. | No | No aquatic habitat present. |
| *Rana boylii*<br><br>foothill yellow-legged frog | --/ST | Found in aquatic habitats with flowing water and partially shaded by riparian habitat. Streams are shallow and have riffles from rocky substrate. Lays eggs on cobble-size rock. Water must be present for at least 15 weeks for metamorphosis. Rarely found away from permanent water; further distance from water recorded is 165 feet. | No | No aquatic habitat present. |

## Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

| Scientific Name<br>Common Name | Status<br>(FESA/CESA<br>CRPR/CDFW) | Habitat Requirements | Potential to Occur | Rationale |
|---|---|---|---|---|
| *Spea hammondii*<br><br>western spadefoot | FC/--<br>SSC | Species relies on vernal pools for breeding where predators cannot become established; open areas with sand or gravelly soils in a variety of habitats: grasslands, coastal scrub, woodlands, chaparral, sandy washes, lowland river floodplains, alkali flats, foothills, and mountains; endemic to California and northern Baja California; distribution is from Redding south throughout the Central Valley and foothills, throughout the South Coast Ranges into coastal southern California to the Transverse and Peninsular mountains; elevation is from sea level to 4,500 feet. | No | No aquatic habitat present on-site. Site has been heavily disturbed for agricultural use for decades. Nearest CNDDB record ~2.0 miles north of project site. Unprocessed CNDDB record ~2.1 miles to southeast. |
| **Reptiles** | | | | |
| *Actinemys [=Emys] marmorata*<br><br>northwestern pond turtle | FC/--<br>SSC | Highly aquatic and diurnally active; found in ponds, lakes, rivers, streams, creeks, marshes, and irrigation ditches with vegetation and rocky/muddy bottoms; wide variety of habitats; needs basking areas near water (logs, rocks, vegetation mats, banks); may enter brackish water and even seawater; digs nest on land near water; range is from north of the San Francisco Bay area south, including the Central Valley. | No | No aquatic habitat present. |
| *Anniella pulchra*<br><br>northern California legless lizard | --/--<br>SSC | Secretive fossorial lizard found in many habitats, especially valley and foothill grassland, chaparral, coastal scrub, and coastal dune; most commonly associated with sandy or loose organic soils with leaf litter; elevation from near sea level to 6,000 feet; may hibernate in inland areas with colder winter temperatures; primarily associated with foothills and mountains from Ventura County north to San Joaquin and Contra Costa Counties, and in the western Sierra Nevada foothills in Fresno and Tulare Counties. | No | No suitable habitat present. |

## Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

| Scientific Name<br>Common Name | Status<br>(FESA/CESA<br>CRPR/CDFW) | Habitat Requirements | Potential to Occur | Rationale |
|---|---|---|---|---|
| *Gambelia silus [=sila]*<br><br>blunt-nosed leopard lizard | FE/SE<br>SFP | Occurs in semiarid habitats within the southern Central Valley and Cuyama Valley; habitats typically are flat and have large open areas with scattered shrubs for refuge; uses small mammal burrows for shelter; spends most of the year underground, surfacing in spring/early summer to breed and eat; hatchlings surface in the fall to eat; may interbreed with long-nosed leopard lizard in Cuyama Valley; threatened by habitat loss/fragmentation and drought; elevation from 100–2,400 feet. | No | No suitable habitat present. |
| *Phrynosoma blainvillii*<br><br>coast horned lizard | --/--<br>SSC | Prefers sandy/loose soils in grassland, forests, woodlands, and open chaparral; often found along sand washes and dirt roads with scattered shrubs for refuge; specializes in consuming ants; distribution includes coastal California from Baja California north to the Bay Area, southeastern desert regions, southern Central Valley flats and foothills, and surrounding mounts on drier, warmer slopes; threatened by habitat loss/fragmentation and the spread of invasive ant species displacing native prey; elevation from sea level to 8,000 feet. | No | No suitable habitat present. |
| *Thamnophis gigas*<br><br>giant gartersnake | FT/ST | Highly aquatic snake found in marshes and sloughs, drainage canals, and irrigation ditches; prefers vegetation close to water for basking; does not venture more than 200 feet from aquatic habitat; elevation from sea level to 400 feet; endemic to California; currently ranges from Glenn County to southern edge of San Francisco Bay Delta, and from Merced County to northern Fresno County. | No | No aquatic habitat present. |
| **Birds** | | | | |
| *Agelaius tricolor*<br><br>tricolored blackbird | --/ST<br>SSC | Colonial breeder that prefers freshwater, emergent wetlands with tall, dense cattails or tules, but also thickets of willow, blackberry, wild rose, and tall herbs; breeding colonies are minimum ~50 pairs; forages in pastures, grain fields, and similar habitats near breeding areas. | No | No suitable aquatic habitat present. |

## Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

| Scientific Name<br>Common Name | Status<br>(FESA/CESA<br>CRPR/CDFW) | Habitat Requirements | Potential to Occur | Rationale |
|---|---|---|---|---|
| *Aquila chrysaetos*<br><br>golden eagle | --/--<br>FP, WL | The golden eagle is an uncommon resident of mountainous and valley-foothill areas. Nesting occurs on cliff ledges and overhangs or in large trees. Foraging typically occurs in open terrain where small rodent prey is seen while soaring high above ground. This species occurs throughout California except the central valley. | No | No suitable habitat present and project is in the valley portion of Fresno County. |
| *Athene cunicularia*<br><br>burrowing owl | --/--<br>SSC | Occupies a variety of open, semi-arid to arid habitats throughout central and southern California, including desert regions; prefers open habitats with few shrubs or trees; most active around sunrise and sunset; utilizes burrows constructed by mammals year-round for shelter and nesting; well documented in urban areas where patches of undeveloped areas are present (e.g., canals, airports, drainage basins) and in areas of dense agricultural development, particularly where canals provide burrow habitat; forages primarily for rodents and insects within several miles of its burrow, usually in open, grassy habitats if available; has been observed hunting bats and insects around parking lot lights; threats include development resulting in habitat loss/fragmentation. | No | Foraging habitat limited due to disturbance. No suitable burrows present. Site has been heavily disturbed for agricultural use for decades. Nearest CNDDB occurrence is ~6 miles to northwest. |
| *Buteo swainsoni*<br><br>Swainson's hawk | --/ST | Resident and migrant throughout the Central Valley, Klamath Basin, Northeastern Plateau, Mojave Desert, Antelope Valley, and elsewhere; breeds in stands with few trees in juniper-sage flats, riparian areas, and in oak savannahs; usually nests in scattered trees surrounded by foraging habitat; forages primarily for small mammals in grasslands and open desert scrublands or suitable grain fields or livestock pastures; occasionally eats insects, amphibians, reptiles, and birds; usually found near water. | Yes | Suitable nest trees within 0.5 mile of project site. Project site offers limited foraging. Unprocessed CNDDB record of nest recorded in 2018 approximately 4 miles to the west. |
| *Gymnogyps californianus*<br><br>California condor | FE/SE<br>FP | Nests on deep canyons with clefts in rocky walls surrounded by vast expanses of grasslands, chaparral, and savannah for scavenging in mountain ranges. Roosts on ledges or large old-growth trees. Can forage up to 100 miles from nest/roost. | No | Project not located in vicinity of suitable roosting or nesting habitat. |

## Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

| Scientific Name<br>Common Name | Status<br>(FESA/CESA<br>CRPR/CDFW) | Habitat Requirements | Potential to Occur | Rationale |
|---|---|---|---|---|
| *Haliaeetus leucocephalus*<br><br>bald eagle | FD/SE<br>SSC | Winters locally at deep lakes and reservoirs feeding on fish and waterfowl. Locally rare throughout North America. | No | No suitable aquatic habitat present. |
| *Lanius ludovicianus*<br><br>loggerhead shrike | --/SSC/--<br>(nesting) | Nests in shrubs in coastal sage scrub and chaparral habitats or in trees that overlook grasslands; preys over semi-open habitats and feeds primarily on large insects and often skewers prey on a barb or thorn to cache for later feeding. | No | No suitable habitat present. |
| *Vireo bellii pusillus*<br><br>least Bell's vireo | FE/SE | Widespread throughout western Sierra Nevada and coastal valleys and foothills south of Santa Clara County; occurs below 2,000 feet elevation; migrant; winters in Mexico and breeds in California from March to August; nests in dense riparian habitat along streams; prefers willows, cottonwoods, Baccharis, wild blackberry, or mesquite; feeds on insects and some fruits. | No | No suitable riparian habitat present. |
| *Xanthocephalus xanthocephalus*<br><br>yellow-headed blackbird | --/--<br>SSC | Breeds in the Imperial and Colorado River valleys, and the Central Valley; occasionally in the Coast Ranges; migrant or uncommon winter resident; breeds mid-April to late July; nests and roosts in colonies over water in fresh emergent wetlands, especially cattails, tules, or other emergent plants; feeds on insects, spiders, and snails, and occasionally grains. | No | No suitable aquatic habitat present. |
| **Mammals** | | | | |
| *Antrozous pallidus*<br><br>pallid bat | --/--<br>SSC | Occurs in low elevations in deserts, grasslands, shrublands, woodlands, and forest throughout California from sea level up through mixed conifer forests; most common in open, dry, habitats with rocky areas for roosting; roosts usually in groups of 20 or more; day roosts in caves, crevices, mines, and occasionally hollow trees and buildings; night roosts sometimes in more open areas; roost must protect against high temps; maternity colonies form in April; hibernates in winter; needs water; very sensitive to roost disturbance. | No | No suitable habitat present. |

## Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

| Scientific Name<br>Common Name | Status<br>(FESA/CESA<br>CRPR/CDFW) | Habitat Requirements | Potential to Occur | Rationale |
|---|---|---|---|---|
| *Corynorhinus townsendii*<br><br>Townsend's big-eared bat | --/--<br>SSC | Found throughout California in a variety of habitats. Roosts in caves, mines, tunnels, building, or other human-made structures. Requires water. Hibernates. Extremely sensitive to human disturbance. | No | No suitable roosts present and project site heavily disturbed. |
| *Dipodomys nitratoides exilis*<br><br>Fresno kangaroo rat | FE/SE | Occurs on alkali open grassland on bare alkaline clay-based soils; nocturnal species; burrows with tunnels approximately 12 to 15 inches below ground; threatened by predation and disease; historically occurred on the valley floor in Kings, Fresno, Madera, and Merced counties, but may be extirpated. | No | No suitable habitat present. |
| *Euderma maculatum*<br><br>spotted bat | --/--<br>SSC | Found in a wide variety of habitats from grasslands and deserts through mixed conifer forests. Roosts on rock crevices in cliffs or caves. Moth specialist. Feeds over water. Drinks water. | No | No suitable roosts present. |
| *Lasiurus frantzii*<br><br>western red bat | --/--<br>SSC | Roosts in trees in woodland and forest habitats from sea level to up through mixed conifer forests. Prefers habitat edges with open areas for foraging. Feeds on variety of insects. Requires water. Solitary but may nurse in colonies. Forages up to 0.6 miles from day roost. | No | No suitable roosts present. |
| *Taxidea taxus*<br><br>American badger | --/--<br>SSC | Found throughout California except in the North Coast area; open grasslands, deserts, and edge of scrub and woodland habitats; requires loose soils; does not occur in irrigated agriculture; active year-round, both nocturnal and diurnal; young are born in March and April; primarily eats small mammals and occasionally reptiles, insects, birds, eggs, and carrion; capable of digging a new den each night. | No | Project and vicinity heavily disturbed by development and intensive agricultural uses. No suitable dens observed. |

## Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

| Scientific Name<br>Common Name | Status<br>(FESA/CESA<br>CRPR/CDFW) | Habitat Requirements | Potential to Occur | Rationale |
|---|---|---|---|---|
| *Vulpes macrotis mutica*<br><br>San Joaquin kit fox | FE/ST | Endemic to the Central Valley; San Joaquin Valley, Carrizo Plain, Salinas Valley, Cuyama Valley, and other small valleys in western foothills; arid to semi-arid grasslands, open shrublands, savannahs, and grazed lands with loose-textured soils; highly adaptable and documented in urban developed areas; uses burrows year-round for shelter, escape from predators, and rearing young; will use man-made structures, such as pipes, for denning; feeds primarily on small mammals but will also consume birds, reptiles, and insects and scavenge for human food; intensively maintained agricultural areas avoided; threatened by habitat loss and fragmentation, vehicle strikes, and disease; current mange outbreak in urban population in Bakersfield and in nearby natural areas. | No | Area heavily disturbed/developed for urban, rural residential, and intensive agricultural uses. Project site heavily disturbed. No suitable burrows/dens present. |

Sources: CDFW 2024a; CDFW 2024b; CDFW 2024c; CNPS 2024; USFWS 2024b; Zeiner et al. 1990.

Notes:

CRPR (California Rare Plant Rank):
1A Presumed Extinct in California
1B Rare, Threatened, or Endangered in California and elsewhere
2A Plants presumed extirpated in California, but more common elsewhere
2B Plants Rare, Threatened, or Endangered in California, but more common elsewhere

CRPR Threat Code Extension:
.1 Seriously endangered in California (over 80% of occurrences threatened / high degree and immediacy of threat)
.2 Fairly endangered in California (20-80% occurrences threatened)
.3 Not very endangered in California (<20% of occurrences threatened)

CDFW = California Department of Fish and Wildlife
CESA = California Endangered Species Act
FESA = Federal Endangered Species Act

| | |
|---|---|
| FE | Federally Endangered |
| FT | Federally Threatened |
| FC | Federal Candidate/Proposed Species |
| FS | Federally Sensitive |
| SE | State Endangered |
| ST | State Threatened |
| SC | State Candidate/Proposed |
| SS | State Sensitive |
| SSC | State Species of Special Concern |
| SFP | State Fully Protected |
| SR | State Rare |

# CULTURAL RESOURCE ASSESSMENT

# FOR THE DEYOUNG

# DEVELOPMENT, CITY OF CLOVIS

# FRESNO COUNTY CALIFORNIA

Prepared by

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(Job #24-018)

## INTRODUCTION

The project involves the development of a residential development on a tract of three parcels totaling 37.92 acres, located on the south side of Behmeyer Avenue, between Peach Avenue on the west and Minnewawa Avenue on the east, in the City of Clovis, California (Figures 1 and 2).

The project area lies in the northeast ¼ of Section 19, Township 12 S, Range 20 E, mapped on the Friant 7.5' USGS topographic quadrangle (Figure 1).

Melinda A. Peak, senior historian/archeologist with Peak & Associates, Inc. served as principal investigator for the study with Michael Lawson, senior archeologist (resumes, Appendix 1), completing the field survey of the project area.

## STATE REGULATIONS

State historic preservation regulations affecting this project include the statutes and guidelines contained in the California Environmental Quality Act (CEQA; Public Resources Code sections 21083.2 and 21084.1 and sections 15064.5 and 15126.4 (b) of the CEQA Guidelines). CEQA Section 15064.5 requires that lead agencies determine whether projects may have a significant effect on archaeological and historical resources. Public Resources Code Section 21098.1 further cites: A project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment.

An "historical resource" includes, but is not limited to, any object, building, structure, site, area, place, record, or manuscript that is historically or archaeologically significant (Public Resources Code section 5020.1).

Advice on procedures to identify such resources, evaluate their importance, and estimate potential effects is given in several agency publications such as the series produced by the Governor's Office of Planning and Research (OPR), CEQA and Archaeological Resources, 1994. The technical advice series produced by OPR strongly recommends that Native American concerns and the concerns of other interested persons and corporate entities, including, but not limited to, museums, historical commissions, associations, and societies be solicited as part of the process of cultural resources inventory. In addition, California law protects Native American burials, skeletal remains, and associated grave goods regardless of the antiquity and provides for the sensitive treatment and disposition of those remains (California Health and Safety Code Section 7050.5, California Public Resources Codes Sections 5097.94 et al).

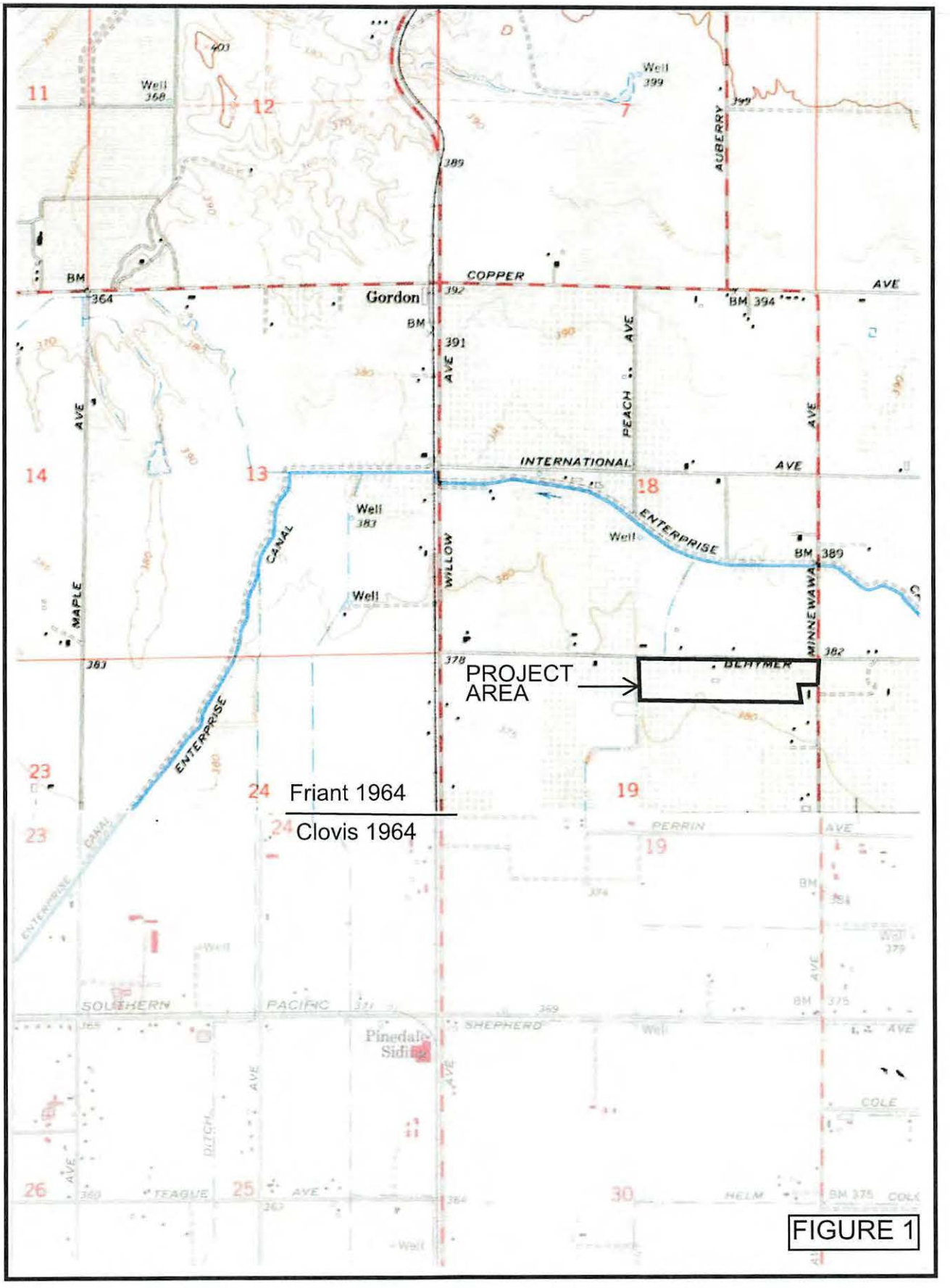
PROJECT AREA
Friant 1964
Clovis 1964
COPPER AVE
Gordon
INTERNATIONAL AVE
ENTERPRISE
CANAL
WILLOW AVE
PEACH AVE
AUBERRY
MINNEWAWA AVE
MAPLE AVE
BEHYMER
PERRIN AVE
SOUTHERN PACIFIC
SHEPHERD AVE
Pinedale Siding
TEAGUE AVE
HELM
COLE
Well
11
12
7
14
13
18
23
24
19
26
25
30

FIGURE 1




| | | | |
|---|---|---|---|
| 38' X 68'- TYP | 91 LOTS | PARK SPACE: | PEDESTRIAN TRAIL |
| 45' X 70'- TYP | 75 LOTS | 0.74 AC- TOKANA PARK | BIKE TRAIL |
| 50' X 85'- TYP | 100 LOTS | 0.10 AC- DOG PARK | TRAIL LANDSCAPING |
| TOTAL SFR LOTS | 266 | | STREET LANDSCAPING |

FIGURE 2

**The California Register of Historical Resources (Public Resources Code Section 5020 et seq.)**

The State Historic Preservation Office (SHPO) maintains the California Register of Historical Resources (CRHR). Properties listed, or formally designated as eligible for listing, on the National Register of Historic Places are automatically listed on the CRHR, as are State Landmarks and Points of Interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys.

For the purposes of CEQA, an historical resource is a resource listed in, or determined eligible for listing in the California Register of Historical Resources. When a project will impact a site, it needs to be determined whether the site is an historical resource. The criteria are set forth in Section 15064.5(a) (3) of the CEQA Guidelines, and are defined as any resource that does any of the following:

A. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;

B. Is associated with the lives of persons important in our past;

C. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or

D. Has yielded, or may be likely to yield, information important in prehistory or history.

In addition, the CEQA Guidelines, Section 15064.5(a) (4) states:

The fact that a resource is not listed in, or determined to be eligible for listing in the California Register of Historical Resources, not included in a local register of historical resources (pursuant to section 5020.1(k) of the Public Resources Code), or identified in an historical resources survey (meeting the criteria in section 5024.1(g) of the Public Resources Code) does not preclude a lead agency from determining that the resource may be an historical resource as defined in Public Resources Code section 5020.1(j) or 5024.1.

**California Health and Safety Code Sections 7050.5, 7051, And 7054**

These sections collectively address the illegality of interference with human burial remains, as well as the disposition of Native American burials in archaeological sites. The law protects such remains from disturbance, vandalism, or inadvertent destruction, and establishes procedures to be

implemented if Native American skeletal remains are discovered during construction of a project, including the treatment of remains prior to, during, and after evaluation, and reburial procedures.

**California Public Resources Code Section 15064.5(e)**

This law addresses the disposition of Native American burials in archaeological sites and protects such remains from disturbance, vandalism, or inadvertent destruction. The section establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project and establishes the Native American Heritage Commission as the entity responsible to resolve disputes regarding the disposition of such remains.

**Assembly Bill 52**

Assembly Bill (AB) 52 establishes a formal consultation process for California tribes as part of CEQA and equates significant impacts on tribal cultural resources with significant environmental impacts. AB 52 defines a "California Native American Tribe" as a Native American tribe located in California that is on the contact list maintained by the Native American Heritage Commission. AB 52 requires formal consultation with California Native American Tribes prior to determining the level of environmental document if a tribe has requested to be informed by the lead agency of proposed projects. AB 52 also requires that consultation address project mitigation measures for significant effects, if requested by the California Native American Tribe, and that consultation be concluded when either the parties agree to measures to mitigate or avoid a significant effect, or the agency concludes that mutual agreement cannot be reached. Under AB 52, such measures shall be recommended for inclusion in the environmental document and adopted mitigation monitoring program if determined to avoid or lessen a significant impact on a tribal cultural resource.

## CULTURAL SETTING

**Archeology**

The Central Valley region was among the first in the state to attract intensive fieldwork, and research has continued to the present day. This has resulted in a substantial accumulation of data, but the emphasis has been in the northern portion of the valley. In the early decades of the 1900s, E.J. Dawson explored numerous sites near Stockton and Lodi, later collaborating with W.E. Schenck (Schenck and Dawson 1929). By 1933, the focus of work was directed to the Cosumnes locality, where survey and excavation were conducted by the Sacramento Junior College (Lillard and Purves 1936). Excavation data, in particular from the stratified Windmiller site (CA-SAC-107), suggested two temporally distinct cultural traditions.

Later work at other mounds by Sacramento Junior College and the University of California, Berkeley, enabled the investigators to identify a third cultural tradition, intermediate between the previously postulated Early and Late Horizons. The three-horizon sequence, based on discrete changes in ornamental artifacts and mortuary practices, as well as on observed differences in soils within sites (Lillard, Heizer and Fenenga 1939), was later refined by Beardsley (1954). An expanded definition of artifacts diagnostic of each period was then developed, and its application extended to parts of the central California coast. Traits held in common allow the application of this system within certain limits of time and space to other areas of prehistoric central California.

In the southern San Joaquin Valley, with the exception of Hewes's excavation at CA-FRE-48 (the Tranquility Site), the foci of early investigations have been the old shorelines of the interior lakes: Tulare, Kern, and Buena Vista. In 1899, Dr. P. M. Jones directed fieldwork in the Buena Vista-Tulare Lake area of Kern County. Jones investigated 150 mounds and conducted trenching of several sites including CA-KER-53. In 1909, N. C. Nelson investigated prehistoric Site CA-KER-49, which is located to the west of Buena Vista Lake. Later, four surveys and excavations were conducted in the same locale under the auspices of the University of California. A compilation of these investigation results was published in 1926 by Gifford and Schenck.

As a result of this early work, an elaborate culture complex was defined for the late prehistoric period. This complex can be ascribed probably to the Yokuts and their direct ancestors. The material culture of this late temporal period complex included steatite vessels and beads, finely-made projectile points, pottery, shaped stone mortars, *Tivela* disc beads, use of asphaltum, and the presence of metates and manos. Flexed burials were the predominant interment mode. Earlier complexes underlying the late cultural expressions were represented by chipped stone crescents, large projectile points, atlatl spurs, and weights. Mortuary practices, generally thought to be related, include extended rather than flexed burial position, a situation analogous to that of the northern valley (Gifford and Schenck 1926; Lillard, Heizer, and Fenenga 1939; Moratto 1972).

Presence of "Early Man," although not found in direct association with extinct animals, is demonstrated by the frequency of chipped stone crescents and fluted points similar to those of the Clovis-Folsom Complex in the American Southwest. Although fluted points have been found near the shores of Tulare Lake, an area that has also produced surface finds of extinct mammal bone of Pleistocene age, the association is not substantiated by controlled excavations and remains speculative (Riddell and Olsen 1969). Most of the point collection had been acquired by D. Witt over a period of 30 years.

Under the direction of Wedel (1941), the Civil Works Administration, in conjunction with the Smithsonian Institution, initiated the first major excavations using stratigraphic controls. Investigations of CA-KER-39 and CA-KER-60 as well as several smaller sites near Buena Vista Lake produced evidence of two distinct cultural entities or occupation periods. Wedel lacked

methods for dating these two entities by cross-comparison of the assemblages, he tentatively stated that the early occupation at Buena Vista Lake appeared to be temporally older and less developed than the Early Horizon (Windmiller Pattern) of the Delta region. He compared this early component to the Oak Grove or Milling Stone culture of the Santa Barbara area (Rogers 1939). He divided the later cultural entity into two distinct phases, both clearly distinguished from the earlier cultural phase by artifact types. Wedel (1941:144-145) estimated that neither of these cultural periods exceeded 1500 B.P. (years Before the Present). Later, other investigators proposed far earlier ages for these early occupations, with dates ranging from 2000 to 7000 B.P. (Baumhoff and Olmstead 1963, 1964; Heizer 1964; Meighan 1959).

Later investigations in 1963 and 1964 at CA-KER-116 near Buena Vista Lake produced materials similar to Wedel's early occupation. These materials occurred in the lower levels of the "upper deposit," while an even deeper cultural deposit yielded materials similar to those of the San Dieguito Complex. Artifacts included a chipped stone crescent, crude point fragments, and an atlatl spur. Radiocarbon age determinations on shell from the lowest cultural levels returned a date of circa 8200 B.P. (Fredrickson and Grossman 1966, 1977; Fredrickson 1967).

Despite the previously mentioned investigations, the prehistory of the southern San Joaquin remains as yet poorly understood, without a tightly defined chronological sequence of cultural development.

**Ethnology**

Ethnographic literature is often uncertain in definition of cultural boundaries for Indian groups. Early displacement by white intrusion resulted in population shifts to avoid conflict with the Spanish, and later with the miners and settlers. The ravages of disease and warfare decimated the native people, further weakening cultural identity. Informants were often uncertain of original territories of the various tribal groupings.

The Yokuts were members of the Penutian language family which held lands of the Central Valley, San Francisco Bay Area, and the Pacific Coast from Marin County to near Point Sur. The Yokuts differed from other ethnographic groups in California as they had true tribal divisions with group names (Kroeber 1925). Each tribe spoke a particular dialect, common to its members, but similar enough to other Yokuts that they were mutually intelligible (Kroeber 1925).

Trade was well-developed, with mutually beneficial interchange of needed or desired goods. Obsidian, rare in the San Joaquin Valley, was obtained by trade with Paiute and Shoshoni groups on the eastern side of the Sierra Nevada, where numerous sources of this material are located, and to some extent from the Napa Valley to the north. Shell beads, obtained by the Yokuts from coastal

people, and acorns, rare in the Great Basin, were among many items exported to the east by Yokuts traders (Davis 1961).

Economic subsistence was based on the acorn, with substantial dependency on gathering and processing of wild seeds and other vegetable foods. The rivers, streams, and sloughs which formed a maze within the valley provided abundant food resources such as fish, shellfish, and turtles. Game, wild fowl, and small mammals were trapped and hunted to provide protein augmentation of the diet.

In general, the eastern portion of the San Joaquin Valley provided a lush environment of varied food resources, with the estimated large population centers reflecting this abundance (Cook 1955; Baumhoff 1963).

The project area lies close to the line used by ethnographers to identify the divide between Northern Valley Yokuts and Southern Valley Yokuts, more likely to be in the northern part of Southern Valley Yokuts territory. Settlements were oriented along the water ways, with their village sites normally placed adjacent to these features for their nearby water and food resources. House structures varied in size and shape (Latta 1949; Kroeber 1925). The housepit depressions ranged in diameter from between 3 to 18 meters.

Latta (1949:99) reported that a village of 200 to 300 Yokuts might have four or five large houses that were used for ten or twelve years or until a family member died, at which time the Indians burned the house in which the death had occurred. If a sick or aged person died outside the dwelling, the family did not burn the house. When a Northern Yokuts died, his body was cremated or buried in a flexed position. Southern tribes normally buried their dead, although they did cremate shamans, persons who died away from their village and, among the Tachi, persons of great importance.

The Yokuts experienced severe depopulation after contact with the Spanish and subsequent explores. The most devastating impacts of the Spanish colonization effort were not the result of military conflicts, but came from Old World diseases newly introduced to the native people.

**Historical Context**

**Early Explorations**

The early recorded inhabitants of the region were members of the Yokuts tribe. Although the Spanish missions were established closer to the Pacific coast between 1769 and 1817, the general project area was first visited in the early 1800s by Spanish explorers, who visited the San Joaquin Valley with three goals: to search for runaway neophytes from the missions in the coastal regions,

to punish the Indian raiders, and to select sites for new missions. In 1806, a group led by Gabriel Moraga and Father Pedro Muñoz, left Mission San Juan Bautista heading north to about the Mokelumne River. They then turned south, and travelled along the edge of the mountains crossing the San Joaquin River and passing through Tejon Pass, arriving at Mission San Fernando. In 1815, José Dolores Pico marched an expedition group from Monterey into the region. Following the San Joaquin River, he passed through the area in search of runaways, traveling as far south as the Kern River. The expedition returned to the starting point in Monterey with nine prisoners and a number of horses.

After control of California passed from Spain to Mexico in 1822, Mexican explorations into the interior continued, with José Dolores Pico conducting a major expedition along the San Joaquin River in 1825-1826. This expedition was considered successful in that some neophytes were captured, hostile Indians killed, some of the tribal groups intimidated, and some stolen horses recovered.

In 1828, Sebastián Rodríguez led a similar expedition into the same region. His expedition captured a number of neophytes as well as some of the stolen horses, an item that had become an important dietary staple for the Indian tribes in the San Joaquin Valley region (Beck and Haase 1974).

The expeditions did not leave physical evidence, but there were definitely major affects to the Native American populations. Causing even more of an effect on the native population were the diseases brought in to the Native populations of the Central Valley in the early 1830s.

**Ranchos**

In Fresno County, there was only one early land grant, a rancho along the current southern border of the county: Laguna de Tache. The era of the Spanish and Mexican land grants did not directly affect the APE.

**Fresno Region History**

The lands of the project region were recognized early in time for their agricultural value. Early land use included grazing and dry lands crops such as grains. Over time, a system of ditches was constructed to bring a reliable source of water to much more of the county, allowing the planting of orchards and vineyards, as well as the cultivation of a wider variety of crops. In addition, transportation for the farm products to wider markets was aided by the addition of railroad systems in the region (Kyle 2002).

**Clovis**

The extension of the railroad system throughout the San Joaquin Valley allowed the increased expansion of a market for the agricultural production of the region. A branch line of the Southern Pacific Railroad (first known as the Pollasky Railroad or the San Joaquin Railroad) was built through this region circa 1891. Marcus Pollasky served as the promoter, and monies were raised locally for the construction costs. Clovis Cole, the owner of a large wheat ranch, donated land for the route, and a station was established here on the line and named Clovis (Gudde 1969; City of Clovis 1962).

After the completion of the railroad, the construction of the flume from Shaver Lake to the east was soon completed by the Fresno Flume and Irrigation Company. The 45-mile-long flume could deliver 200,000 board feet of lumber through the V-shaped watercourse in a 24-hour period. At the end of the flume, there was a finishing and distributing plant. Other, better grade lumber was delivered to Clovis down Tollhouse Grade, hauled by ox and horse teams. In the early years, 140 men were employed by the lumber company, with an annual payroll of $450,000.

The Clovis lumber plant occupied a 40-acre site. The factory, warehouse, a planing mill, and engine house all burned to the ground in 1898, but were soon rebuilt. As many as 400 men were employed by the company. The mill was located on the south side of Fifth Street (City of Clovis 1962; Clovis Centennial Book Committee 2011).

The mill in Clovis produced "ordinary lines of lumber," shakes, trays, sweat boxes, raisin boxes, orange boxes, cedar posts, ties, poles, and pine and oak cordwood (*Fresno Republican* 1897: 96). The ever-increasing agricultural use of the San Joaquin Valley, due to improvements and expansion of irrigation systems, led to a large market for the fruit packing boxes, allowing shipment of the produce to a wider marketplace.

Clovis was laid out by a licensed surveyor, working for the co-owners of the land: Clovis Cole, Clarence Pallos, and George Owen. Early homes were utilitarian, and the streets were ungraded (City of Clovis 1962).

The town's population expanded rapidly from about 500 residents in 1905 to about 1,000 in 1910. Nearby, the population was increasing within the local rural agricultural colonies, with large acreages broken up into 20-acre tracts advertised for sale to Midwesterners. By 1919, local population had grown to 1,500. At this point, the lumber business is still the main support of the economy, but the area produced huge crops of Malaga grapes and figs (Clovis Centennial Book Committee 2011; Vandor 1919:269)

For the first 21 years, there was no organized government in Clovis. Late in 1911, an election was held, and the city incorporated in 1912. Most of the early businesses in town were located on Front Street, now known as Clovis Avenue, on the west side of the tracks (City of Clovis 1962).

## RESEARCH

A record search was conducted for the APE and a 0.25-mile radius at the Southern San Joaquin Valley Archaeological Information Center of the California Historical Resources Information System on May 13, 2024 (RS#24-207, Appendix 2). No sites have been recorded in the project area. The Enterprise Canal (P-10-005934) is located within the project area buffer radius. Two reports cover studies in portions of the project area, and one covers a portion of the search radius buffer.

## FIELD ASSESSMENT

Mike Lawson (resume, Appendix 1) completed the field survey of the project area on June 15, 2024 with complete coverage.

The survey area consists of several agricultural fields in a rectangular shape with a single-family home and outbuildings near the center accessed by Behymer Avenue. Only the front or street view of the residence is visible due to a privacy screen surrounding the building complex.

All connecting agricultural plots are flat, likely leveled, with raised dirt access roads between and around them. Wire fencing protects the field edges along the avenue, but the remaining boundaries are open. Irrigation equipment typical for orchards and seed planting is in place throughout the survey area.

Soil is uniformly a medium-brown silty loam throughout all the growing blocs with a very slight difference in shade due to varying moisture levels. Cobble and pebble fraction is light to moderate with components being granitic, sandstone, and meta volcanic. No bedrock outcrops or boulders were observed.

Typical native and introduced plants and trees along the fields were observed including valley oak, Russian thistle, datura, goats-head, wild radish, and brome. Orchard trees appeared to be almond. Other fields were fallow at time of survey.

Due to low sensitivity for cultural resources, parallel transects of no more than 10 meters apart were walked to obtain complete coverage. The survey routes followed furrows in dirt fields, dirt roadways and open spaces between orchard trees. At time of survey ground visibility was very good due to farming activities.

The residence was difficult to observe from the roadside, but it is clearly quite recent in construction date with recent alterations such as, replacement doors, vinyl framed windows, and recent composition roof. The building was field recorded, and a site record prepared (Appendix 3).

No other prehistoric or historical artifacts, features or other remains were observed within the survey area.

## SITE DESCRIPTION/EVALUATION

This is a ranch style house constructed in 1963, per County Assessor, that is more complex in plan than most houses of that style and era. This is basically a cross gabled version of the ranch style, the type found in about 40% of ranch houses (McAlester 2015:598) but this has two front-facing cross gables, much less common, and one of these has what amounts to a full width dormer on top of the cross gable in the form of another low gabled roof that does not extend to the end of the main roof. The rear of the building is also unusual in that there are several extensions, one being an extension of the main roof at a lower pitch to cover a large back patio. About 140 feet south of the residence are two modern utility buildings: a flat roofed equipment shelter, and a small barn.

Windows are primarily vinyl framed sliders but there is a picture window on the front (northern) elevation facing Behymer Avenue. Siding is vertical plank over a faux rock course. The eaves are closed and the roof is a composite that appears relatively recent.

In all, this is a variation on the ranch house that lacks many of the most characteristic elements of the style. In particular, the essential simplicity characteristic of the early ranch houses of this era is lost in the complex roof treatment. Later ranch houses of the 1970s and early 1980s are often more elaborate. This example, however, is not in any recognized subtype of the basic ranch form.

This building is not eligible for the California Register of Historical Resources, lacking association with important events or people in history, as well as no architectural distinction.

## RECOMMENDATIONS

Although no prehistoric sites were found during the survey, there is a slight possibility that a site may exist and be totally obscured by vegetation, fill, or other historic activities, leaving no surface evidence. Should artifacts or unusual amounts of stone, bone, or shell be uncovered during construction activities, an archeologist should be consulted for on-the-spot evaluation of the finding. If the bone appears to be human, state law requires that the Fresno County Coroner be contacted. If

the Coroner determines that the bone is human and is most likely Native American in origin, he must contact the Native American Heritage Commission (916-322-7791).

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# APPENDIX 1

## Resumes

# PEAK & ASSOCIATES, INC.
# RESUME

**MELINDA A. PEAK**
**Senior Historian/Archeologist**
3941 Park Drive, Suite 20 #329
El Dorado Hills, CA 95762
(916) 939-2405

**January 2024**

## PROFESSIONAL EXPERIENCE

Ms. Peak has served as the principal investigator on a wide range of prehistoric and historic excavations throughout California. She has directed laboratory analyses of archeological materials, including the historic period. She has also conducted a wide variety of cultural resource assessments in California, including documentary research, field survey, Native American coordination, and report preparation.

In addition, Ms. Peak has developed a second field of expertise in applied history, specializing in site-specific research for historic period resources. She has completed many historical research projects for a wide variety of site types.

Through her education and experience, Ms. Peak meets the Secretary of Interior Standards for historian, architectural historian, prehistoric archeologist, and historic archeologist.

## EDUCATION

M.A. - History - California State University, Sacramento, 1989
Thesis: *The Bellevue Mine: A Historical Resources Management Site Study in Plumas and Sierra Counties, California*
B.A. - Anthropology - University of California, Berkeley

## PROJECTS

In recent months, Ms. Peak has completed several determinations of eligibility and effect documents in coordination with the Corps of Engineers for projects requiring federal permits, assessing the eligibility of many sites for the National Register of Historic Places.

She has also completed historical research projects on a wide variety of topics for many California projects including the development of navigation and landings on the Napa River, wineries, farmhouses dating to the 1860s, bridges, an early roadhouse, Folsom Dam, and a section of an electric railway line.

In recent years, Ms. Peak has prepared numbers of cultural resource overviews and predictive models for blocks of land proposed for future development for general and specific plans. She has been able to direct many surveys of these areas, allowing the model to be tested.

She served as principal investigator for the multi-phase Twelve Bridges Golf Club project in Placer County. She served as liaison with the various agencies, helped prepare the historic properties treatment plan, managed the various phases of test and data recovery excavations, and completed the final report on the analysis of the test phase excavations of many prehistoric sites. She is currently involved as the principal investigator for the Teichert Quarry project adjacent to Twelve Bridges in the City of Rocklin, coordinating contacts with Native Americans, the Army Corps of Engineers, and the Office of Historic Preservation.

Ms. Peak has served as project manager for many major survey and excavation projects in recent years, including the many surveys and site definition excavations for the 172-mile-long Pacific Pipeline proposed for construction in Santa Barbara, Ventura, and Los Angeles counties. She also completed an archival study in the City of Los Angeles for the project. She also served as principal investigator for a major coaxial cable removal project for AT&T.

Additionally, she has completed hundreds of small surveys, served as a construction monitor at several urban sites, and conducted emergency recovery excavations for sites found during monitoring. She has directed the excavations of several historic complexes in Sacramento, Placer, and El Dorado Counties.

Ms. Peak is the author of a chapter and two sections of a published history (1999) of Sacramento County, *Sacramento: Gold Rush Legacy, Metropolitan Legacy*. She served as the consultant for a children's book on California, published by Capstone Press in 2003 in the Land of Liberty series.

**PEAK & ASSOCIATES, INC.**
**RESUME**

**MICHAEL LAWSON**
**Archeological Field Director**
3941 Park Drive, Suite 20-329
El Dorado Hills, CA 95672
(916) 939-2405

**January 2024**

## PROFESSIONAL EXPERIENCE

Mr. Lawson has compiled an excellent record of undertaking excavation and survey projects for both the public and private sectors over the past thirty years. He has conducted many surveys throughout northern California, central California, and Hawaii, as well as serving as an archeological technician, site monitor, crew chief and field director for a number of excavation projects.

Mr. Lawson is qualified by the Bureau of Land Management as a field director for archeological surveys and excavations. In 2022, he led teams as the field director on several field surveys in the Sierras for the proposed undergrounding of PG&E transmission lines, dealing with both historic and prehistoric cultural resources. Lawson works for several firms based in the Sacramento Area and Bay Area.

## EDUCATION

B.A. - Anthropology - California State University, Sacramento

Special Course: Comparative Osteology. University of Tennessee, Knoxville. Forensic Anthropology Center. January 2018.

The special course included: intensive lab and outdoor study with human example from outdoor research facility, including typical and non-metric examples, compared with the fifty non-human species most confused with human remains. Work at the outdoor research facility "The Body Farm" study included survey, photography, collection, and identification of faunal and human bone fragments, with a Power Point presentation discussing finds.

## EXPERIENCE

- Extensive monitoring of open space, streets and project development areas for prehistoric period and historic period resources. Areas monitored include Sutter Street in Folsom; Mud Creek Archeological District in Chico; Camp Roberts, San Luis Obispo County; Avila Beach, San Luis Obispo County; Edgewood Golf Course, South Lake Tahoe; Davis Water Project, Davis; Star Bend levee section, Sutter County; Feather River levees, Sutter County; Bodega

Bay, Sonoma County; San Jose BART line extension, Santa Clara County; and numerous sites for PG&E in San Francisco.

- Over thirty years of experience working in cultural resource management, volunteer, and academic settings in California historic, proto-historic, and prehistoric archaeology.

- Expertise in pedestrian survey, excavation, feature (including burial) exposure, laboratory techniques, research. Field positions include field director, assistant field director, crew chief and lead technician.

# APPENDIX 2

## SSJVIC Records Search

California Historical Resources Information System



Fresno
Kern
Kings
Madera
Tulare

Southern San Joaquin Valley
California State University, Bakersfield
Mail Stop: 72 DOB
9001 Stockdale Highway
Bakersfield, California 93311-1022
(661) 654-2289
E-mail: ssjvic@csub.edu
Website: www.csub.edu/ssjvic

5/13/2024

Robert Gerry
Peak & Associates, Inc.
3941 Park Drive, Suite 30-329
El Dorado Hills, CA 95762

Re: Behmer Industrial
Records Search File No.: 24-207

The Southern San Joaquin Valley Information Center received your record search request for the project area referenced above, located on Friant USGS 7.5' quad. The following reflects the results of the records search for the project area and the 0.25 mile radius:

As indicated on the data request form, the locations of resources and reports are provided in the following format: ☒ custom GIS maps ☐ GIS data

| | |
|---|---|
| Resources within project area: | None |
| Resources within 0.25 mile radius: | P-10-005934 |
| Reports within project area: | FR-00074, 02289 |
| Reports within 0.25 mile radius: | FR-01219 |

| | | | |
|---|---|---|---|
| **Resource Database Printout (list):** | ☒ enclosed | ☐ not requested | ☐ nothing listed |
| **Resource Database Printout (details):** | ☐ enclosed | ☒ not requested | ☐ nothing listed |
| **Resource Digital Database Records:** | ☐ enclosed | ☒ not requested | ☐ nothing listed |
| **Report Database Printout (list):** | ☒ enclosed | ☐ not requested | ☐ nothing listed |
| **Report Database Printout (details):** | ☐ enclosed | ☒ not requested | ☐ nothing listed |
| **Report Digital Database Records:** | ☐ enclosed | ☒ not requested | ☐ nothing listed |
| **Resource Record Copies:** | ☒ enclosed | ☐ not requested | ☐ nothing listed |
| **Report Copies:** | ☒ enclosed | ☐ not requested | ☐ nothing listed |
| **OHP Built Environment Resources Directory:** | ☒ enclosed | ☐ not requested | ☐ nothing listed |
| **Archaeological Determinations of Eligibility:** | ☐ enclosed | ☐ not requested | ☒ nothing listed |
| **CA Inventory of Historic Resources (1976):** | ☐ enclosed | ☒ not requested | ☐ nothing listed |

**Caltrans Bridge Survey:** Not available at SSJVIC; please see https://dot.ca.gov/programs/environmental-analysis/cultural-studies/california-historical-bridges-tunnels

**Ethnographic Information:** Not available at SSJVIC

**Historical Literature:** Not available at SSJVIC

**Historical Maps:** Not available at SSJVIC; please see http://historicalmaps.arcgis.com/usgs/

**Local Inventories:** Not available at SSJVIC

**GLO and/or Rancho Plat Maps:** Not available at SSJVIC; please see http://www.glorecords.blm.gov/search/default.aspx#searchTabIndex=0&searchByTypeIndex=1 and/or http://www.oac.cdlib.org/view?docId=hb8489p15p;developer=local;style=oac4;doc.view=items

**Shipwreck Inventory:** Not available at SSJVIC; please see https://www.slc.ca.gov/shipwrecks/

**Soil Survey Maps:** Not available at SSJVIC; please see http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the record search number listed above when making inquiries. Invoices for Information Center services will be sent under separate cover from the California State University, Bakersfield Accounting Office.

Thank you for using the California Historical Resources Information System (CHRIS).

Sincerely,

Celeste M. Thomson
Coordinator

California Historical Resources Information System



Fresno
Kern
Kings
Madera
Tulare

**Southern San Joaquin Valley**
California State University, Bakersfield
Mail Stop: 72 DOB
9001 Stockdale Highway
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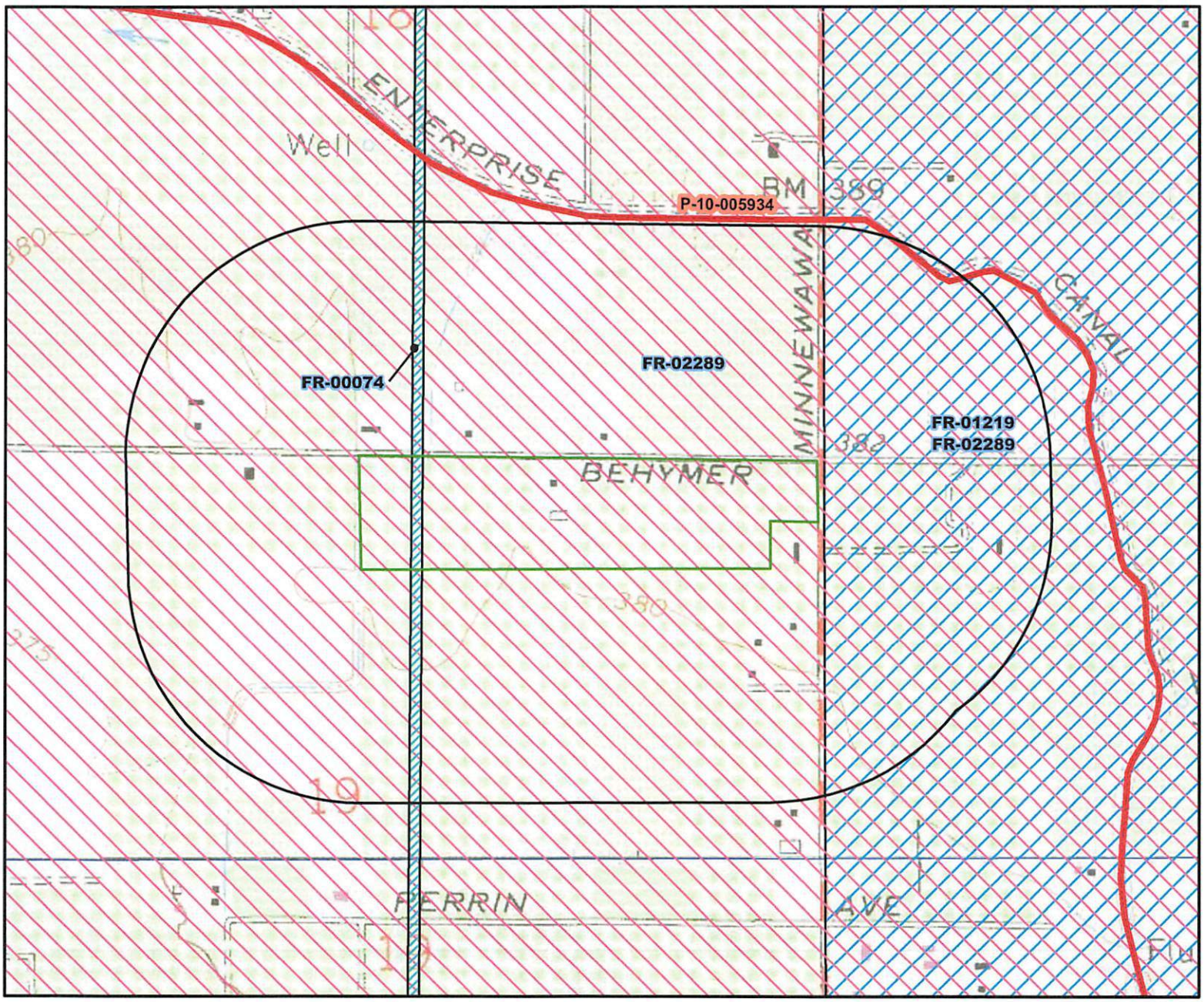
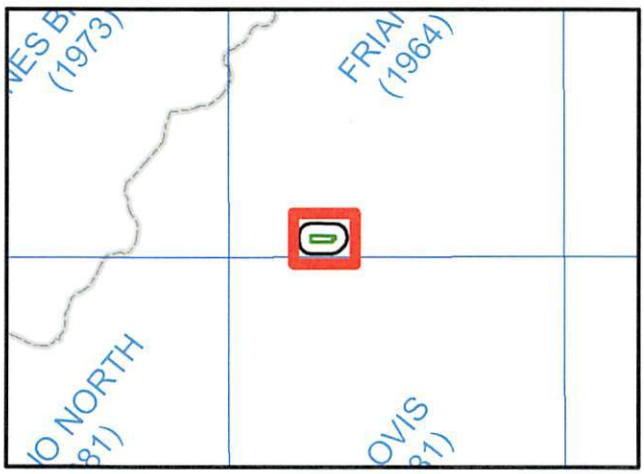
(661) 654-2289
E-mail: ssjvic@csub.edu
Website: www.csub.edu/ssjvic




**May depict confidential cultural resource locations. Do not distribute.**
**Map pages depicting no data have been excluded.**

Project Area
Record Search radius

N
W E
S

0 0.05 0.1 0.2 Miles
0 0.05 0.1 0.2 Kilometers

SSJV Information Center Record Search 24-206
Requester: Robert Gerry, Peak & Associates, Inc.
Project Name: Behmer Industrial
USGS 7.5' Quad(s): Clovis, Friant
County: Fresno

909

## Resource List

**SSJVIC Record Search 24-207**

| Primary No. | Trinomial | Other IDs | Type | Age | Attribute codes | Recorded by | Reports |
|---|---|---|---|---|---|---|---|
| P-10-005934 | CA-FRE-003564H | Resource Name - Enterprise Canal;<br>OTIS Resource Number - 534499;<br>OHP Property Number - 163775 | Structure | Historic | HP20 | 2007 (R. Baloian, Applied EarthWorks, Inc.);<br>2013 (Randy Baloian, Applied EarthWorks, Inc.);<br>2017 (Ward Stanley and Randy Baloian, Applied EarthWorks, Inc.) | FR-02615, FR-02919, FR-03067 |

## Report List

**SSJVIC Record Search 24-207**

| Report No. | Other IDs | Year | Author(s) | Title | Affiliation | Resources |
|---|---|---|---|---|---|---|
| FR-00074 | NADB-R - 1141287 | 1978 | Baker, Suzanna | Archaeological Reconnaissance of the Shaphard 230kV Substation and Transmission Line | Archaeological Consultants | |
| FR-01219 | | 1993 | Bissonnette, Linda Dick | Fresno Metropolitan Flood Control District Drainage Area "BY" Facilities | Cultural Rasources Consulting | |
| FR-02289 | | 2006 | Nattlas, Wendy M. and Baloian, Randy | Cultural Rasources Raconnaissance Survay of the City of Clovis Northwest Urban Center Specific Plan Area, Fresno County, California | Applied EarthWorks, Inc. | 10-006109 |

# APPENDIX 3

## DPR Site Record

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
# PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 of 3 *Resource Name or #: 3731 E. Behymer Avenue

**P1. Other Identifier:**

***P2. Location:** ☐ Not for Publication ■ Unrestricted *a. County: Fresno

**and** (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad: Friant Date: 1964 T 12S; R21E NW¼ of NE¼ of Sec 19; M.D. B.M.

c. Address: 3731 E. Behymer Avenue City: Clovis Zip: 93619

d. UTM: NAD27 Zone: 10; 07 92 774 mE/ 40 86 506 mN (G.P.S.)

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) Elevation:
APN 556-010-29

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

This is a ranch style house constructed in 1963, per County Assessor, that is more complex in plan than most houses of that style and era. This is basically a cross gabled version of the ranch style, the type found in about 40% of ranch houses (McAlester 2015:598) but this has two front-facing cross gables, much less common, and one of these has what amounts to a full width dormer on top of the cross gable in the form of another low gabled roof that does not extend to the end of the main roof. The rear of the building is also unusual in that there are several extensions, one being an extension of the main roof at a lower pitch to cover a large back patio. About 140 feet south of the residence are two modern utility buildings: a flat roofed equipment shelter and a small barn.

Windows are primarily vinyl framed sliders but there is a picture window on the front (northern) elevation facing Behymer Avenue. Siding is vertical plank over a faux rock course. The eaves are closed and the roof is a composit tnat appears relatively recent.

In all, this is a variation on the ranch house that lacks a number of the most characteristic elements of the style. In particular, the essential simplicity characteristic of the early ranch houses of this era is lost in the complex roof treatment. Later ranch houses of the 1970s and early 1980s are often more elaborate. This example, however, is not in any recognized subtype of the basic ranch form.

***P3b. Resource Attributes:** (List attributes and codes) HP2 – Single Family Property

***P4. Resources Present:** ■Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) Front of house from Behymer Avenue looking south. 5/15/2024

***P6. Date Constructed/Age and Sources:** ■Historic ☐Prehistoric ☐Both
1063 per County Assessor

***P7. Owner and Address:**
On site

***P8. Recorded by:** (Name, affiliation, and address)
Mike Lawson, Robert Gerry
Peak & Associates, Inc.
3941 Park Drive, Ste 20-329
El Dorado Hills, CA 95762

***P9. Date Recorded:** 5/15/3034

***P10. Survey Type:** (Describe)
Full coverage pedestrian survey prior to proposed development

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") Cultural Resources Assessment of the De Young Property, Clovis, Fresno County, California. Peak & Associates, Inc. 2024

.***Attachments:** ☐NONE ■Location Map ■Sketch Map ☐Continuation Sheet ☐Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art R ☐Artifact Record ☐Photograph Record ☐ Other (List):



DPR 523A (1/95) *Required information

State of California ♄ Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
**SKETCH MAP**

Primary #
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**Page** 2 **of** 3 ***Resource Name or #** (Assigned by recorder) 3731 E Behymer Avenue

***Drawn by:** Google Earth and Gerry ***Date of map:** 1/20/2024



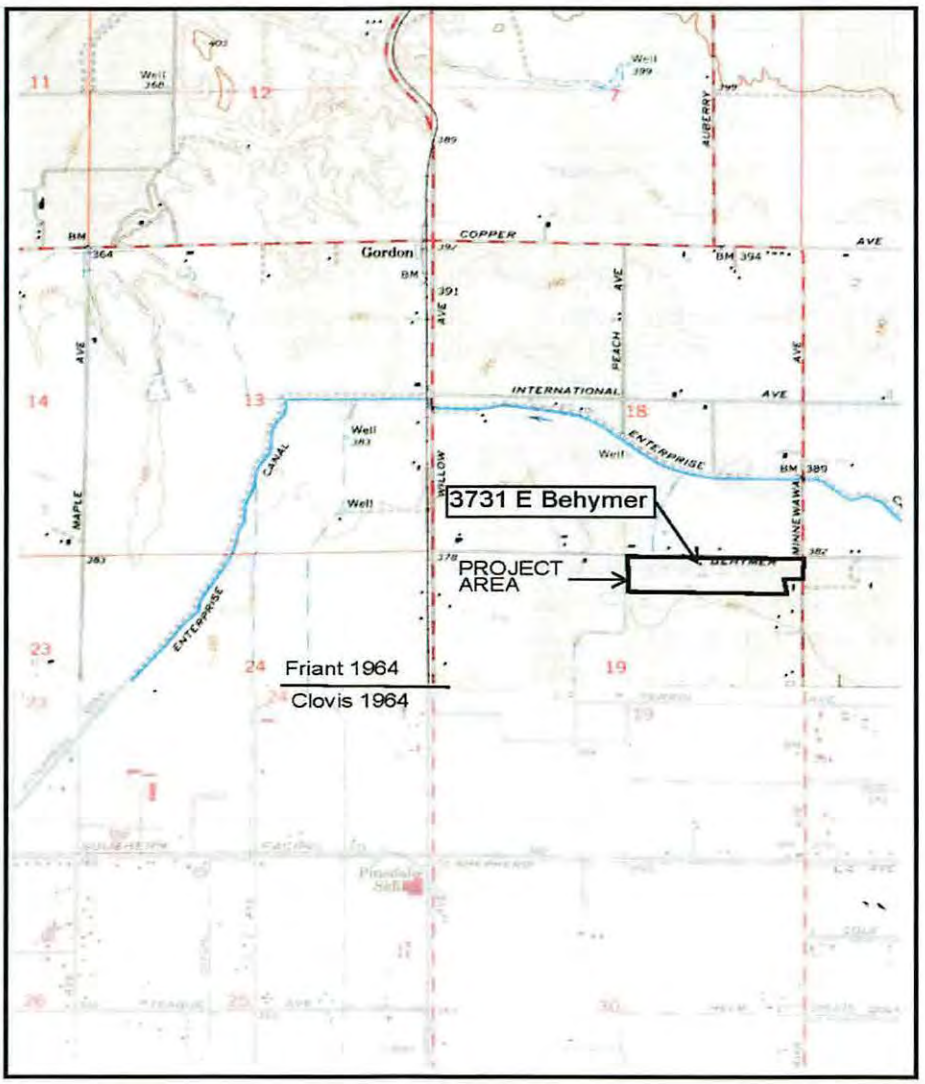

**DPR 523K (Rev. 1/1995)(Word 9/2013) NOTE: Include bar scale and north arrow.**

3731
DEPARTMENT OF PARKS AND RECREATION
# LOCATION MAP

HRI#
Trinomial



*Resource Name or #: 3731 E Behymer Avenue

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PROVOST&PRITCHARD
CONSULTING GROUP

455 W Fir Ave • Clovis, CA 93611 • (559) 449-2700
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# MEMORANDUM




| | |
|---|---|
| **To:** | Christopher Kelly, City of Clovis |
| **From:** | Heather Bashian, PE |
| **Date:** | October 24, 2024 |
| **Subject:** | Water Infrastructure Investigation for a Single-Family Residential Development at the southeast corner of Peach and Behymer Avenues (DRC 2023-045 or Tentative Tract Map 6482) |

Provost and Pritchard Consulting Group has prepared this technical memorandum summarizing the findings of our investigation into the water system infrastructure required to serve a proposed development located at the northeast corner of Peach and Behymer Avenues (APNs 556-010-28 and 29).

## PROJECT INFORMATION

The Project covers an area of approximately 36.9 gross acres within the Northwest Village planning area. The entire Project is within the Kings River service area for FID, which means the Project has access to water from the Kings River as its source of supply. The existing project site consists of residences and residential outbuildings, and agriculture uses. The proposed use will consist of approximately 266 single family residential units, equating to 7.2 units per acre, consistent with the land use designation of medium high density residential, consistent with the planned land use for the area.

The project straddles the pressure zone (PZ) boundary (Zone 1 and Zone 2) of the water system and the understanding is the City does not want to create an interconnection between the pressure zones within a residential development (i.e., not on a major road/intersection). For this reason, the evaluation of the Project has been prepared to determine what master planned, or additional, water infrastructure would be necessary for this Project to proceed. To accomplish this, the infrastructure conditioned on other preceding projects in the area has been documented and, qualitatively, the necessary infrastructure to serve this Project has been evaluated. This evaluation was not completed with a hydraulic model, at the direction of City staff.

## ASSUMPTIONS

Below is a list of assumptions that will be made for this investigation:

- Proposed developments will comply with the City's two points of connection requirement.
- Master planned facilities near the Project are existing, unless otherwise specifically noted.
- The developer is responsible for sizing all water mains and other water related infrastructure internal to the Project.
- Water system demands will be based on unit demand from the City of Clovis Water Master Plan Update, Phase III (Provost & Pritchard, 2018).
- The first phase of water storage tank T-9 or T-6 (3.5 million gallons of storage in PZ2) will be evaluated for inclusion in the Project.
- Water system improvements associated with Tract maps 6205, 6343, and 6200, and DRC 2023-024 (Behymer & Willow Avenues) will be assumed to be fully built out. Water system improvements associated with Vista Ranch are assumed to not be constructed for purposes of this analysis.

## WATER DEMAND

Potable water demands for the Project were estimated using land-use-based unit water demand factors from the WMP. Table 1 summarizes unit demand factors used to estimate demand for typical planning conditions such as annual average, maximum day, and peak hour and the total water usage for each demand category. Water usage for each demand category was estimated by multiplying gross acreage of land use type by its respective unit demand.

Table 1. Summary of Unit Water Demands and Total Water Demands

| LAND USE | AREA (AC) | ANNUAL AVERAGE | | MAXIMUM DAY | | PEAK HOUR | |
|---|---|---|---|---|---|---|---|
| | | AFY/AC | AFY | GPM/AC | GPM | GPM/AC | GPM |
| Existing/Proposed – Medium-High Density Residential | 36.9 | 3.30 | 121.8 | 3.48 | 128.3 | 6.14 | 226.5 |

Notes:
1. Source for unit water demand values was Table 5-3.1 in WMP.
2. Abbreviations: AFY = Acre-feet per year, gpm = gallons per minute, ac = acre(s)

## WATER SUPPLY

Urbanization within Clovis occurs both inside and outside the Kings River service area for FID, therefore not all lands have access to this water source. Lands generally located south and west of the Enterprise Canal are within the Kings River service area and as such are entitled to an average annual allotment of approximately 2.24 acre-feet per acre (AF/ac). Some land uses within the City have unit demands greater than the 2.24 AF/ac supply available. The City adopted an ordinance requiring new development with demands exceeding the allotment to pay fees, so the City can acquire additional water supply to serve the development. Since the entirety of the Project is within the FID service area, water from the Kings River is available to offset a portion of the anticipated annual demand of 19.0 acre-feet. See Table 2 for summary of reconciliation of supply and demand for existing and proposed land use conditions.

Table 2. Summary of Unit Water Demands by Land Use

| LAND USE | AVERAGE DAY DEMAND (AFY) | FID ENTITLEMENT (AFY) | ADDITIONAL SUPPLY REQUIRED (AFY) |
|---|---|---|---|
| Existing/Proposed – Medium-High Density Residential | 121.8 | 82.7 | (39.1) |

## INFRASTRUCTURE

This evaluation will discuss infrastructure in three ways:

- Existing infrastructure: this is understood to be constructed and operational as of the date of this memorandum (see **Figure 1**)
- Conditioned infrastructure: this is understood to be planned for construction with another project that preceded this evaluation; it may or may not be constructed and operational when this Project is operational (see **Figure 2**)
- Recommended infrastructure: this is the infrastructure recommended for development in addition to the existing and conditioned infrastructure; if any conditioned infrastructure is not constructed and operational when this Project is operational, additional recommended infrastructure will likely be necessary (see **Figure 2**)

## EXISTING INFRASTRUCTURE

There is no existing infrastructure immediately adjacent to the Project. The nearest existing infrastructure is the 12-inch water main in Willow Avenue and the infrastructure associated with Tract Map (TM) 6200, between Shepherd and Perrin Avenues and Clovis and Sunnyside Avenues. Other existing infrastructure in the larger vicinity is shown on **Figure 1.**

## CONDITIONED INFRASTRUCTURE

The following is a list of the major infrastructure, most as shown in the WMP, that has been conditioned on nearby projects (shown with gray highlight in **Figure 2**) that would impact this Project's ability to have reliable and sufficient water supply access. Some infrastructure is conditioned on multiple projects and is therefore stated more than once.

### DRC 2023-024 (WILLOW AND BEHYMER AVENUES)

- **P-16** (portion): 12-inch water main in Behymer Avenue, along project frontage
- **W-46**: City Well near Willow and Behymer Avenues

### DRC 2023-030 (CLOVIS AND PERRIN AVENUES)

- **P-3/4/5/6**: WMP capital improvement projects P-3 and P-4 or P-5 and P-6 must be operational prior to the project being operational to enhance the redundancy in PZ2
- **P-35** (portion): 12-inch water main in Minnewawa Avenue, along project frontage
- **P-36**: 12-inch water main in Clovis Avenue from Baron Avenue to Perrin Avenue (P-36)
- Non-master planned: 12-inch water main in Perrin Avenue from Clovis Avenue to approximately 360 feet west of Clovis Avenue along Project frontage

### TRACT 6205

- **P-3/4**: WMP capital improvement projects P-3 and P-4 must be operational prior to the project being operational to enhance the redundancy in PZ2
- **P-39**: 24-inch water main in Perrin Road from Sunnyside Avenue to Marion Avenue
- **P-40**: 24-inch water main in Sunnyside Avenue from Pryor Road to Perrin Road
- Non-master planned: 12-inch water main in Pryor Road that connects through the project from Sunnyside Avenue to Shepherd Avenue

### TRACT 6343

- **P-18** (portion): 24-inch water main in Behymer Avenue from Baron Avenue, along project frontage
- **P-38**: 24-inch water main in Baron Avenue from Perin Avenue to Behymer Avenue

### TRACT 6375

- **P-35** (portion): 12-inch main in Minnewawa Avenue
- **P-36** (portion): 12-inch main in Clovis Avenue
- Tank **T-6** (portion thereof)

### TRACT 6452

- **P-38**: 24-inch water main in Baron Avenue from Perrin Avenue, along project frontage
- **P-39**[1] (portion): 24-inch water main in Street A from Marion Avenue to eastern edge of Project (to T-9 site
- **P-39**[1] (portion): 24-inch in Marion Avenue from Perrin Avenue to Street A
- Tank **T-6** (portion thereof)

## RECOMMENDED INFRASTRUCTURE

Based on qualitative evaluation of the existing and conditioned infrastructure, the following infrastructure would be recommended for the Project to proceed, assuming the existing and conditioned infrastructure is all operational.

[1] This master planned water main has been realigned from that shown in the WMP and replaces the originally aligned main.

### EASTERN PORTION OF DRC 2023-045 – PRESSURE ZONE 2:

- **P-16 (portion), P-17 and P-18 (portion)**: construction of the water main along Behymer Avenue (approximately 1.25 miles) provides two points of connection to the water system (redundancy) and allows the eastern portion of the water system to connect to the main in Behymer in two locations without loss of reliability. (Shown in yellow highlight in **Figure 2**.)
    - A non-master planned water main (425 feet) in Minnewawa Avenue, along the Project frontage, would be recommended to provide the second point of connection in Behymer Avenue without having an interconnection between the pressure zones.
- Tank **T-6**: Recent hydraulic analysis for multiple projects in PZ2 have indicated low pressure results in Harlan Ranch, worsened by the inclusion of projects in the Northwest Village, are resolved by construction of Water Storage Tank T-6 at the SWTP.

### WESTERN PORTION OF DRC 2023-045 – PRESSURE ZONE 1:

- **P-27, P-29, and P-30 (west portion)**: Construction of this series of water mains (approximately 1 mile) connects the western portion of the Project to the PZ1 main in Willow Avenue, providing one point of connection for the Project to the PZ1 water supply. (Shown in yellow highlight in **Figure 2**.)
- A second point of connection to provide water supply reliability and redundancy is possible in multiple ways, both of which still rely on P-29, limiting the true redundancy. (The common portions of the two options that follow are shown in solid orange highlight on **Figure 2**, and the differing portions are shown in dashed orange highlight on **Figure 2**).
    - **P-30 (east portion), P-31, P-32, and P-34**: Construction of this series of water mains (approximately 1.5 miles) connects the western portion of the project to the PZ1 water main in Shepherd Avenue.
    - **P-30 (east portion), P-33, and P-34 (north portion)**: Construction of this series of water mains (approximately 0.75 miles) connects the western portion of the project to the PZ2 water main in Minnewawa Avenue.
        - It would introduce a pressure zone interconnection but is considerably less infrastructure to construct.
    - Interconnection at Peach and Behymer: providing a pressure zone interconnection at this intersection provides redundant water supply to the western portion of the Project without introducing a pressure zone interconnection within a subdivision.

## SUMMARY

The ability to provide reliable water supply to the project is possible through the construction of multiple master planned water mains and a portion of the T-6 tank, as described above. The City has multiple options to provide two points of water supply to the Project, for both the eastern and western components.

It is recommended the water mains in Behymer (P-16, P-17, and P-18) be constructed to provide water supply to both portions of the Project. The mains in Behymer will provide two points of connection to the eastern portion in PZ1 until such a time as the frontage water main is constructed in Minnewawa; there is some level of risk associated with two points of connection being provided by the same transmission main. The second point of connection for the western portion in PZ1 can be achieved through construction of P-27, P-30 (western portion) and P29; therefore, those mains are also recommended for the Project.

Serving this project should not negatively impact the City's ability to provide supply and delivery of water to reasonably foreseeable users within the City assuming adherence to recommendations from prior water resources planning efforts. However, to understand the cumulative impacts to supplies and other major water infrastructure, the City should be tracking changes in demand as part of the development process in order to determine when projects with greater demand are offset by projects with demands lower than originally planned.

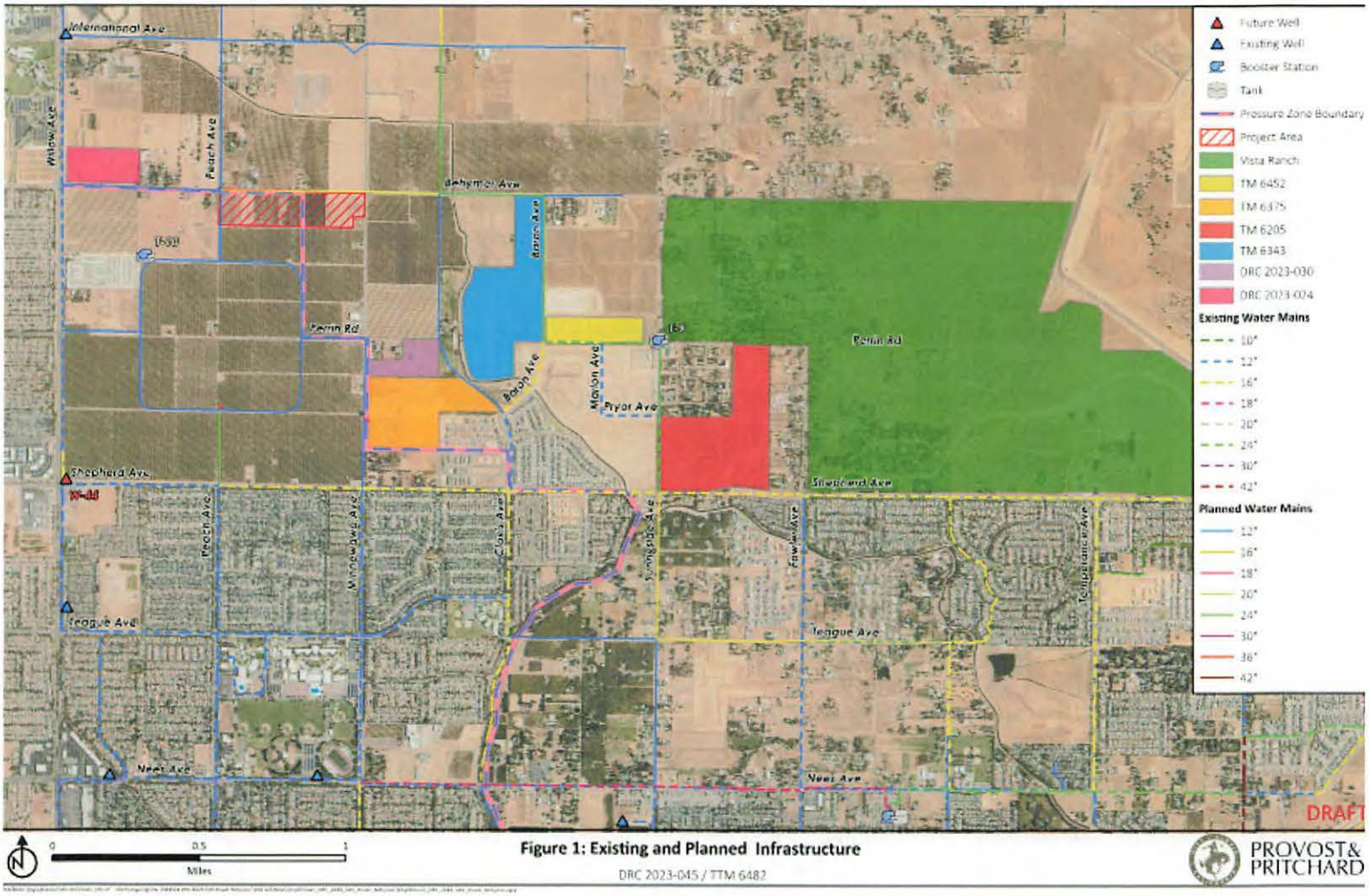


**Figure 1: Existing and Planned Infrastructure**

DRC 2023-045 / TTM 6482

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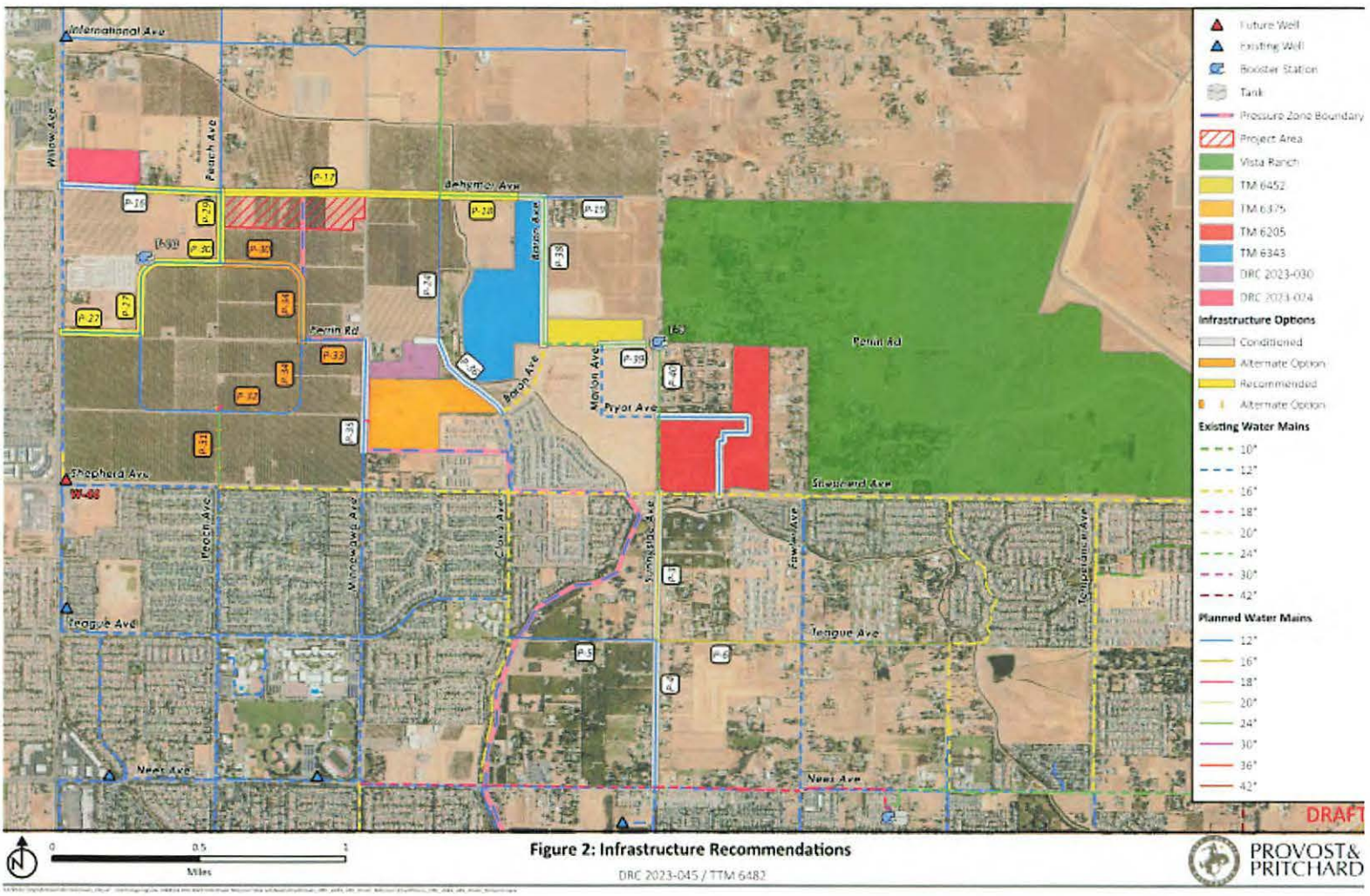


**Figure 2: Infrastructure Recommendations**

DRC 2023-045 / TTM 6482

PROVOST& PRITCHARD

# TRANSPORTATION IMPACT ANALYSIS

## DE YOUNG PROPERTIES PEACH AND BEHYMER PROJECT

## CLOVIS, CALIFORNIA

LSA

October 2024

# TRANSPORTATION IMPACT ANALYSIS

## DE YOUNG PROPERTIES PEACH AND BEHYMER PROJECT

## CLOVIS, CALIFORNIA

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October 2024

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# LIST OF ABBREVIATIONS AND ACRONYMS

| | |
|---|---|
| ABM | Activity Based Model |
| ADA | Americans with Disabilities Act |
| ATP | Active Transportation Plan |
| Caltrans | California Department of Transportation |
| CEQA | California Environmental Quality Act |
| City | City of Clovis |
| CUSD | Clovis Unified School District |
| FAX | Fresno Area Express |
| Fresno COG | Fresno Council of Governments |
| FTIP | Federal Transportation Improvement Program |
| HCM | *Highway Capacity Manual* |
| HCM 7 | *Highway Capacity Manual 7th Edition* |
| HDM | *Highway Design Manual* |
| HQTA | High-Quality Transit Area |
| ITE | Institute of Transportation Engineers |
| LOS | level of service |
| LTA | Local Transportation Analysis |
| mph | miles per hour |
| NCHRP | National Cooperative Highway Research Program |
| project | De Young Properties Peach and Behymer Project |
| RTP | Regional Transportation Plan |
| STIP | State Transportation Improvement Program |
| TAZ | traffic analysis zone |
| TIA | Traffic Impact Analysis |
| TIA Guidelines | Transportation Impact Analysis Guidelines |
| TIZ | Traffic Impact Zone |
| TWLTL | two-way-left-turn lane |
| VMT | vehicle miles traveled |

# 1.0 INTRODUCTION

This Transportation Impact Analysis (TIA) has been prepared to assess the potential circulation impacts associated with the proposed De Young Properties Peach and Behymer Project (project) within Fresno County (County) and proposed to be annexed in the City of Clovis (City). The approximately 37-acre project site is located at the southwest corner of Minnewawa Avenue and Behymer Avenue on parcels 556-01-028 and 556-01-029. The project site is currently occupied by one residential unit and agricultural uses. Figure 1-1 illustrates the regional and project location. (Figures and tables are provided at the end of each chapter.)

This report has been prepared based on the City of Clovis (City) *Transportation Impact Analysis Guidelines* (TIA Guidelines), dated September 15, 2022.

While level of service (LOS) analysis is no longer a determinant of California Environmental Quality Act (CEQA) impacts, consistency with the City's General Plan goals and policies is still required. Therefore, this TIA includes a Vehicle Miles Traveled (VMT) Analysis for a CEQA Transportation Impact evaluation, and a Local Transportation Analysis (LTA) to satisfy the City's General Plan transportation goals and policies. The scope of work for this TIA, including scope for the CEQA VMT Analysis and LTA with trip generation, trip distribution, study area, and analysis methodologies, has been approved by City staff via the Scoping Agreement process. A copy of the Scoping Agreement is included as Appendix A.

## 1.1 PROJECT DESCRIPTION

The proposed project is located within City's sphere of influence (SOI) and within the northwest urban center growth area. The project is proposing to annex approximately 37 acres from Fresno County into the City and includes the development of 266 single family dwelling units and 32,974 square-feet (sf) of park space. The project is consistent with the City's General Plan. For purposes of this TIA, the entire buildout condition of this project has been considered under all 'plus project' conditions. It is anticipated that the project buildout will occur in year 2028. Figure 1-2 illustrates the conceptual site plan for the project.

As illustrated in Figure 1-2, access to the project will be provided by four driveways:

- Project Driveway 1: This driveway will be located along Peach Avenue and will be a full-access driveway.
- Project Driveway 2: This driveway will be located along Behymer Avenue and will be a right in-right-out (RIRO) only driveway.
- Project Driveway 3: This driveway will be located along Behymer Avenue and will be a right in-right-out-left-in driveway. Left-out access will be restricted.
- Project Driveway 4: This driveway will be located along Behymer Avenue and will be a RIRO only driveway.

It should be noted that the project is also anticipated to have connections to adjacent future residential development located immediately south of the project site.

## 1.2 CEQA VEHICLE MILES TRAVELED ANALYSIS

As per the City's TIA Guidelines, the project cannot be considered small because it exceeds 53 dwelling units (City's threshold for screening out single-family home projects from a VMT analysis). Therefore, a detailed VMT analysis has been conducted for the project. For purposes of this analysis, the project-generated VMT per capita has been calculated using the Fresno Council of Governments (Fresno COG) Activity Based Model (ABM). As per the City's TIA Guidelines, a significant project-generated VMT impact would occur if the project's VMT per capita exceeds a level of 13 percent below the existing County average VMT per capita provided in the guidelines. The detailed VMT analysis, including the screening criteria evaluation, VMT analysis methodology, results, and appropriate mitigation measures for the proposed project are discussed in Chapter 2.0.

## 1.3 LOCAL TRANSPORTATION ANALYSIS STUDY AREA

The LTA for the project examines traffic operations in the vicinity of the proposed project under the following five scenarios:

- Existing Conditions;
- Existing Plus Project Conditions;
- Near-Term Plus Project Conditions;
- Cumulative Without Project Conditions; and
- Cumulative Plus Project Conditions.

Traffic conditions at study intersections were examined for weekday a.m. and p.m. peak-hour conditions. The a.m. peak hour is defined as the 1 hour of highest traffic volumes occurring between 7:00 a.m. and 9:00 a.m. The p.m. peak hour is the 1 hour of highest traffic volumes occurring between 4:00 p.m. and 6:00 p.m. Additionally, since the project is estimated to be completed in 2028, the Near-Term condition was evaluated for the year 2028.

As per the City's TIA Guidelines, the extent of the study area should include the following:

- Pedestrian, bicycle, and transit facilities within 0.5 mile from the project site boundary
- All intersections of major streets that would provide direct access to the project
- All signalized intersections within 0.5 mile of the project site boundary where the project would add 50 or more peak-hour trips, and signalized intersections beyond 0.5 mile where the project would add 100 or more peak-hour trips
- All unsignalized intersections within a 0.5 mile of the project site boundary where the project would add more than 50 peak-hour trips

Based on the aforementioned criteria and as per discussion with the City and adjacent jurisdictions during the scoping agreement process, the following intersections have been included in the LTA.

### 1.3.1 Study Intersections

Per the Scoping Agreement (Appendix A), intersections analyzed in the LTA and their jurisdictions are as follows:

1. Willow Avenue/Behymer Avenue (City of Clovis/City of Fresno);
2. Willow Avenue/Perrin Avenue (City of Clovis/City of Fresno);
3. Peach Avenue/Behymer Avenue (City of Clovis);
4. Minnewawa Avenue/Behymer Avenue (City of Clovis);
5. Minnewawa Avenue/Perrin Road (City of Clovis);
6. Minnewawa Avenue/Shepherd Avenue (City of Clovis);
7. Peach Avenue/Project Driveway 1 (City of Clovis);
8. Project Driveway 2/Behymer Avenue (City of Clovis);
9. Project Driveway 3/Behymer Avenue (City of Clovis); and
10. Project Driveway 4/Behymer Avenue (City of Clovis).

Figure 1-3 illustrates the study area intersections.

## 1.4 LIST OF CHAPTER 1.0 FIGURES

- Figure 1-1: Regional and Project Location
- Figure 1-2: Conceptual Site Plan
- Figure 1-3: Study Area Intersections




LSA

LEGEND

Project Location

FIGURE 1-1

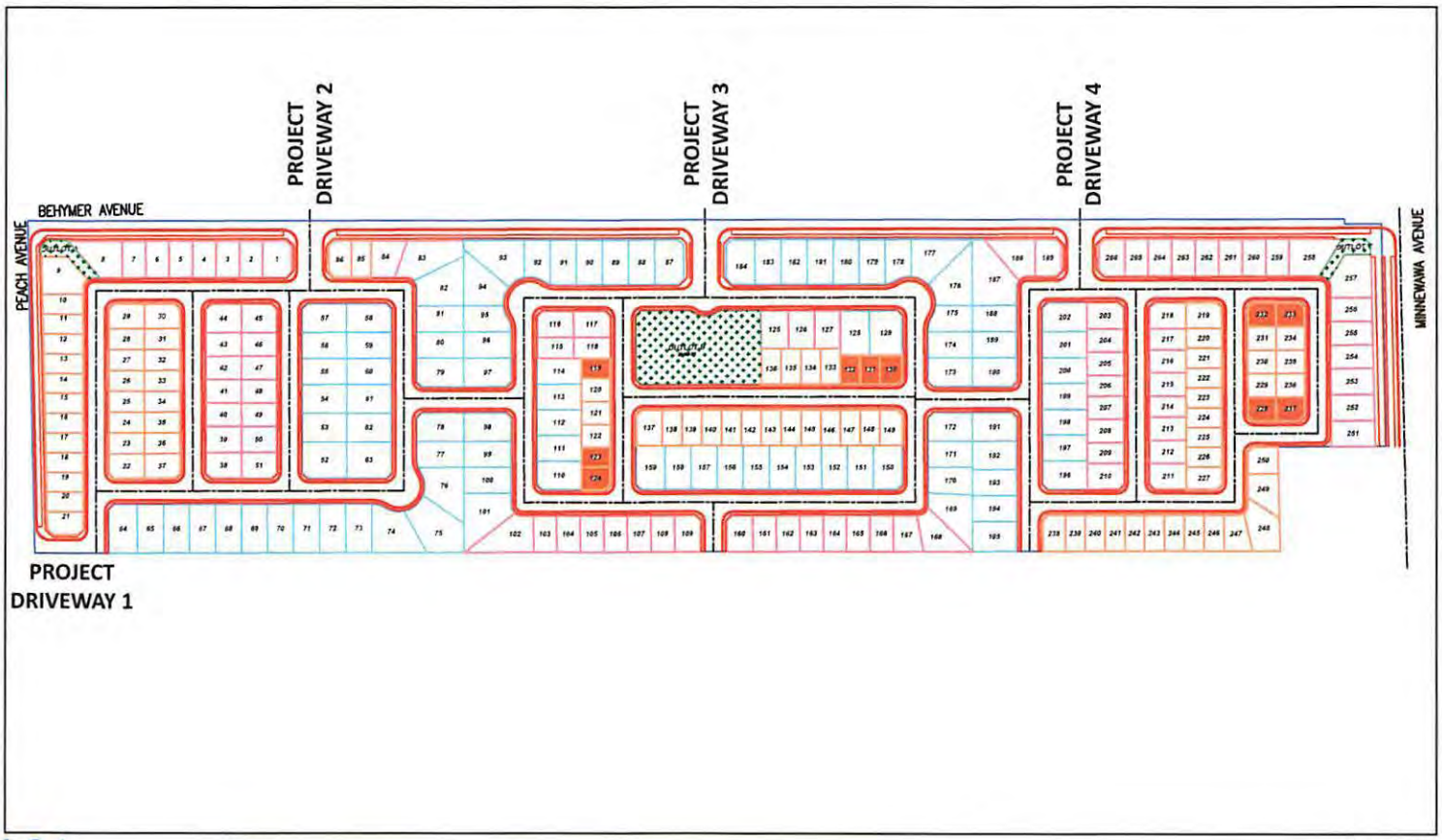
0 1200 2400

FEET

SOURCE: ESRI Streetmap, 2021; Google Earth, 2022

P:\20231181 De Young Annexation\GIS\ArcGIS Pro\De Young Properties Peach and Behymer.aprx (6/18/2024)

*De Young Properties Peach and Behymer*
*Transportation Impact Analysis*
Regional and Project Lo




LSA

LEGEND

| | | |
|---|---|---|
| 38' X 55' -TYPICAL | 10 LOTS | |
| 38' X 68'- TYPICAL | 79 LOTS | |
| 45' X 70'- TYPICAL | 82 LOTS | |
| 50' X 85'- TYPICAL | 95 LOTS | |
| 266 TOTAL SFR LOTS | | |

PARK

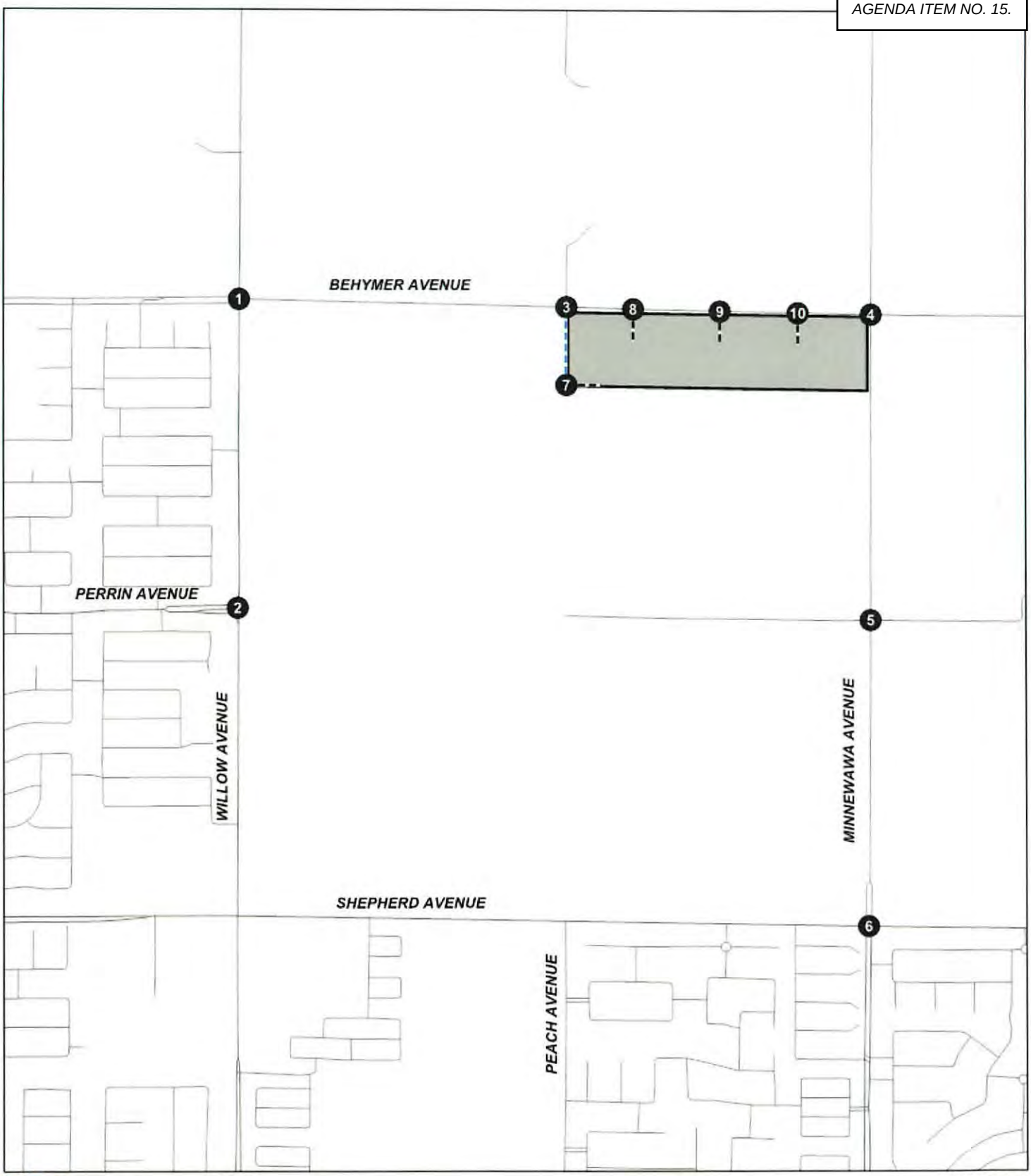
0 150 300
FEET

FIGURE 1-2

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Conceptual Site Plan

SOURCE: De Young Properties, February 2024.
P:\20231181 De Young Anexation\GIS\Report\Site Plan (4/05/2024)




LSA

LEGEND

- Project Location
- Study Intersections
- Project Driveway
- Future Roadway

0 600 1200
FEET

FIGURE 1-3

*De Young Properties Peach and Behymer*
*Transportation Impact Analysis*
Study Inters



P:\20231181 De Young Annexation\GIS\ArcGIS Pro\De Young Properties Peach and Behymer.aprx (5/17/2024)

# 2.0 VEHICLE MILES TRAVELED ANALYSIS

On December 28, 2018, the California Office of Administrative Law cleared the revised CEQA Guidelines for use. Among the changes to the CEQA Guidelines was the removal of vehicle delay and LOS from consideration under CEQA. With the adopted CEQA Guidelines, transportation impacts are to be evaluated based on a project's effect on VMT.

The City's TIA Guidelines includes screening criteria, VMT analysis methodology, VMT impact thresholds, and VMT mitigation measures. Therefore, the City's TIA Guidelines were used in the evaluation of the project's VMT analysis.

## 2.1 METHODOLOGY

The TIA Guidelines provide multiple project types and thresholds for land use projects. The project was compared with the screening criteria established in the "Project Screening" section of the TIA Guidelines to check if the project can be screened out. The following is a brief description of the project in relation with the project screening criteria:

- **Small Project:** The TIA Guidelines states that projects generating less than 500 daily trips could be screened out of a detailed VMT analysis. As discussed in Section 6.1, Project Trip Generation, the project is estimated to generate 2,508 daily trips. Therefore, the project does not satisfy this screening criteria.

- **Provision of Affordable Housing:** The project proposes to develop market-rate, single-family dwelling units. Therefore, this screening criteria does not apply to the project.

- **Local-Serving Retail:** The project consists of residential land use only; therefore, this screening criteria does not apply to the project.

- **Project Located in a High-Quality Transit Area (HQTA):** The project is not located within an HQTA; therefore, this screening criteria does not apply to the project.

- **Project Located in Low VMT Area:** The project is not located in a low VMT area; therefore, this criterion does not apply to the project.

As shown above, the project could not be screened out from a detailed VMT analysis. As such, pursuant to the TIA Guidelines, a detailed VMT analysis was conducted to assess the project's VMT impact.

### 2.1.1 Thresholds of Significance

The project consists of residential land use. The TIA Guidelines established VMT per capita as the appropriate metric to evaluate residential land use projects while defining Fresno County as the "region" for determining VMT thresholds. The project would have a significant VMT impact if the project VMT per capita is greater than 87 percent of the baseline Fresno County VMT per capita. Based on the TIA Guidelines, baseline Fresno County VMT per capita is 16.1 and the corresponding

threshold is 14.1 (which is 87 percent of 16.1). Therefore, the project will have a significant VMT impact if the project VMT per capita is greater than 14.1.

As recommended in the TIA Guidelines, the Fresno COG ABM was used for the project VMT analysis. The model inputs were updated with the project land uses to calculate project VMT. The project VMT was calculated from a Fresno COG ABM model run as described in the following sections.

### 2.1.2 Project Traffic Analysis Zone Update

The first step in preparation of this analysis was to update the traffic analysis zones (TAZs) in the model that include the project area. The Fresno COG ABM includes the ability to add or split zones. In order to isolate the project VMT, a new zone was created in the model. The project households were included in the newly created zone for modeling purposes. No project-specific network modifications were required for the model run. A model run was conducted for the existing/base scenario with updated model inputs. The outputs from this updated model run were used to calculate the project VMT per capita.

### 2.1.3 Model Runs and Project Vehicle Miles Traveled Estimation

A model run was conducted for this updated model upon completion of the socioeconomic data update. The outputs from this updated model run were used to calculate the project VMT per capita.

## 2.2 PROJECT VEHICLE MILES TRAVELED ANALYSIS

Table 2.A summarizes the regional threshold and project VMT per capita. As shown in Table 2.A, the project VMT per capita is 14.9 which is 5.5 percent higher than the City's VMT per capita threshold. Therefore, based on the TIA Guidelines, the project will have a significant VMT impact.

Detailed VMT calculation for the project is included in Appendix B.

## 2.3 VMT MITIGATION MEASURES

When a lead agency identifies a significant CEQA impact, the agency must identify feasible mitigation measures in order to avoid or substantially reduce that impact. VMT impacts can be mitigated through more behavioral changes. Enforcement of mitigation measures will be subject to the mitigation monitoring requirements under CEQA, as well as the regular police powers of the agency. These measures can also be incorporated as a part of plans, policies, regulations, or project designs.

As previously noted, the project is consistent with the City's General Plan. While preparation of the General Plan, an Environmental Impact Report was prepared, along with a statement of Overriding consideration, that discussed the potential environmental impacts and required mitigation measures to be implemented/followed by all future projects that are consistent with the General Plan. The project will be conditioned to implement and follow these measures. Therefore, though project will have a significant and unavoidable transportation impact under CEQA, no further mitigation measure would be required for the project.

## 2.4 LIST OF CHAPTER 2.0 TABLES

- Table 2.A: Existing Regional and Project VMT per Capita

## Table 2.A: Existing Regional and Project VMT per Capita

| Regional Threshold (Fresno County)[1] | Project | Difference | Percentage Difference |
|---|---|---|---|
| 14.1 | 14.9 | 0.8 | 5.5% |

Source: Fresno Council of Governments' Activity-Based Model.

[1] The Fresno County VMT per capita was obtained from the *Transportation Impact Guidelines, City of Clovis* (September 15, 2022).

VMT = vehicle miles traveled

# 3.0 LOCAL TRANSPORTATION ANALYSIS METHODOLOGY

## 3.1 LEVEL OF SERVICE DEFINITIONS

LOS can be characterized for the whole intersection, each intersection approach, and by each lane group. Control delay alone is used to characterize LOS for the entire intersection. Control delay quantifies the increase in travel time due to the traffic signal control and is a surrogate measure of driver discomfort and fuel consumption.

A complete description of the meaning of LOS can be found in Transportation Research Board Special Report 209, *Highway Capacity Manual* (HCM). The HCM establishes LOS A through F for intersections. A description of LOS for signalized and unsignalized intersections is summarized in Table 3.A.

Table 3.B shows the LOS criteria for unsignalized and signalized intersections. For all study area intersections, the *Highway Capacity Manual 7th Edition* (HCM 7) analysis methodologies were used to determine intersection LOS. Intersection LOS was calculated using the Synchro 12 software, which uses the HCM 7 methodologies.

## 3.2 LEVEL OF SERVICE PROCEDURES AND STANDARDS

Study intersections analyzed in this report are completely under the jurisdiction of the City of Clovis or lie at the borders of Clovis and Fresno. The City of Clovis considers LOS D as the LOS standard for study intersections under near-term conditions, unless a finding of overriding consideration was adopted in the City's General Plan EIR. The same criterion holds for cumulative conditions. The City's TIA Guidelines do not define an LOS standard under Existing Plus Project conditions. For the purpose of this analysis, an LOS standard of D has been considered for intersections under Existing Plus Project conditions. The City considers the following operational deficiency criteria for study intersections:

- **Signalized Intersections**
  - If the project triggers a signalized intersection operating at an acceptable LOS to operate at an unacceptable LOS; OR
  - If the project increases the average delay for a signalized intersection that is already operating at an unacceptable LOS.
- **Unsignalized Intersections**
  - If the project triggers an unsignalized intersection operating at acceptable LOS to operate at unacceptable LOS (from E or better to F) and meet the signal warrants criteria; OR
  - If the project increases the applicable delay for an unsignalized study intersection that is already operating at unacceptable LOS and meets the signal warrant criteria.

Per the City of Fresno *Traffic Impact Study Report Guidelines,* updated February 2009, LOS D is considered the LOS standard for study intersections under near-term conditions. The same criterion

holds for long-term conditions. The City's TIA Guidelines do not define an LOS standard under Existing Plus Project conditions.

It should be noted that all City of Fresno study intersections are located within the City of Fresno Traffic Impact Zone (TIZ) III. Per the City of Fresno's General Plan, all intersections within TIZ III should maintain a peak-hour LOS standard of D or better. Therefore, an LOS standard of D has been considered for intersections shared with Fresno for all analysis conditions. The City of Fresno considers the following operational deficiency criteria for study intersections:

- An operational deficiency is created if the addition of the project traffic results in any one of the following:
    - Causes the intersection LOS to change from acceptable to unacceptable levels; OR
    - Causes the intersection LOS to change from an unacceptable LOS (LOS E) to LOS F; OR
    - Increases the average delay at a study intersection that is already operating at an unacceptable LOS.

## 3.3 LIST OF CHAPTER 3.0 TABLES

- Table 3.A: Intersection Level of Service Definitions
- Table 3.B: Level of Service Criteria for Unsignalized and Signalized Intersections

## Table 3.A: Intersection Level of Service Definitions

| LOS | Description |
|---|---|
| A | Traffic operations with a control delay of 10 seconds per vehicle or less and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is exceptionally favorable or the cycle length is very short. If LOS A is the result of favorable progression, most vehicles arrive during the green indication and travel through the intersection without stopping. |
| B | Traffic operations with control delay between 10 seconds per vehicle and 20 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is highly favorable or the cycle length is short. More vehicles stop than with LOS A. |
| C | Traffic operations with control delay between 20 and 35 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when progression is favorable or the cycle length is moderate. Individual cycle failures (i.e., one or more queued vehicles are not able to depart as a result of the insufficient capacity during the cycle) may begin to appear at this level. The number of vehicles stopping is significant, although many vehicles still pass through the intersection without stopping. |
| D | Traffic operations with control delay between 35 and 55 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is high and either progression is ineffective or the cycle length is long. Many vehicles stop and individual cycle failures are noticeable. |
| E | Traffic operations with control delay between 55 and 80 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when volume-to-capacity ratio is high, progression is unfavorable, and the cycle length is long. Individual cycle failures are frequent. |
| F | Traffic operations with control delay exceeding 80 seconds per vehicle or a volume-to-capacity ratio greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is very high, progression is very poor, and the cycle length is long. Most cycles fail to clear the queue. |

Source: Highway Capacity Manual (7th Edition).

## Table 3.B: Level of Service Criteria for Unsignalized and Signalized Intersections

| Level of Service | Unsignalized Intersection Average Delay per Vehicle (sec) | Signalized Intersection Average Delay per Vehicle (sec) |
|---|---|---|
| A | ≤ 10 | ≤ 10 |
| B | > 10 and ≤ 15 | > 10 and ≤ 20 |
| C | > 15 and ≤ 25 | > 20 and ≤ 35 |
| D | > 25 and ≤ 35 | > 35 and ≤ 55 |
| E | > 35 and ≤ 50 | > 55 and ≤ 80 |
| F | > 50 | > 80 |

Source: Highway Capacity Manual (7th Edition).
sec = seconds

# 4.0 CIRCULATION NETWORK SETTING

## 4.1 EXISTING CIRCULATION NETWORK

The project study area includes the following major roadways as classified based on the roadway classification provided in the Circulation Element of the City's General Plan. Figure 4-1 summarizes the classifications of major roadways within the study area. Following is a brief description of these roadways:

- **Willow Avenue:** Willow Avenue is designated as an Arterial in the City's General Plan. Between Behymer Avenue and Shepherd Avenue, Willow Avenue is a six-lane, divided Arterial with a raised median. There are bicycle lanes along both directions of this segment. However, there is no provision for on-street parking.

- **Minnewawa Avenue:** Within the study area, Minnewawa Avenue is designated as an Arterial between Behymer Avenue and Shepherd Avenue in the City's General Plan. Minnewawa Avenue is a two-lane, undivided road. There are bicycle lanes along both directions of this segment. However, there is no provision for on-street parking.

- **Behymer Avenue:** Within the study area, Behymer Avenue is designated as an Arterial between Willow Avenue and Minnewawa Avenue in the City's General Plan. Between Willow Avenue and Minnewawa Avenue, Behymer Avenue is a two-lane, undivided road. There are no bicycle facilities along both directions of this segment and no provision for on-street parking.

- **Shepherd Avenue:** Within the study area, Shepherd Avenue is designated as an Arterial between Willow Avenue and Minnewawa Avenue in the City's General Plan. Shepherd Avenue is a three-lane, divided road with a raised median. There are bicycle lanes along both directions of the segment. There is no provision for on-street parking along any of these segments.

- **Perrin Avenue:** Within the study area, Perrin Avenue is designated as a Collector in the City's General Plan and is a two-lane, undivided roadway with no bicycle lanes along both directions of these segments and there is no provision for on-street parking.

Figure 4-2 illustrates the existing plus project study intersection geometrics and traffic control, and Figure 4-3 illustrates the cumulative plus project study intersection geometrics and traffic control.

## 4.2 BICYCLES, PEDESTRIANS, AND TRANSIT

### 4.2.1 Bicycle Network

The vision of the City of Clovis *Active Transportation Plan (ATP)*, September 2023, is a "city with a complete and connected network of trails, walkways, and bikeways that provides convenient and intuitive connections to key destinations and supports travel within and between neighborhoods. The network improves quality of life by encouraging walking and bicycling for transportation and recreation." The ATP identifies different strategies to improve safety and accessibility for active

modes of transportation such as walking and biking. There are four different types of existing bicycle facilities in the City:

- Class I (Trails)
- Class II (Bicycle Lanes)
- Class II (Buffered Bicycle Lanes)
- Class III (Bicycle Routes)

One of the long-term visions of the City includes upgrading existing or recommended Class II Bicycle Lanes and Buffered Bicycle Lanes to Class IV Separated Bicycle Lanes.

Figures 4-4 illustrate the existing and proposed bicycle facilities within the City. At present, Class II bicycle lanes exist along Willow Avenue, Minnewawa Avenue and Shepherd Avenue within the study area. However, as shown in Figure 4-4, Class II bicycle facilities are proposed along Behymer Avenue and Peach Avenue roadways within the study.

### 4.2.2 Pedestrian Network

The City has an extensive pedestrian network, with sidewalks along most of the major roads. However, since a portion of the study area falls within recently incorporated areas of the City, sidewalks are not present because they were previously developed as per unincorporated Fresno County design guidelines. Figure 4-5 illustrates the existing sidewalk facilities within Clovis.

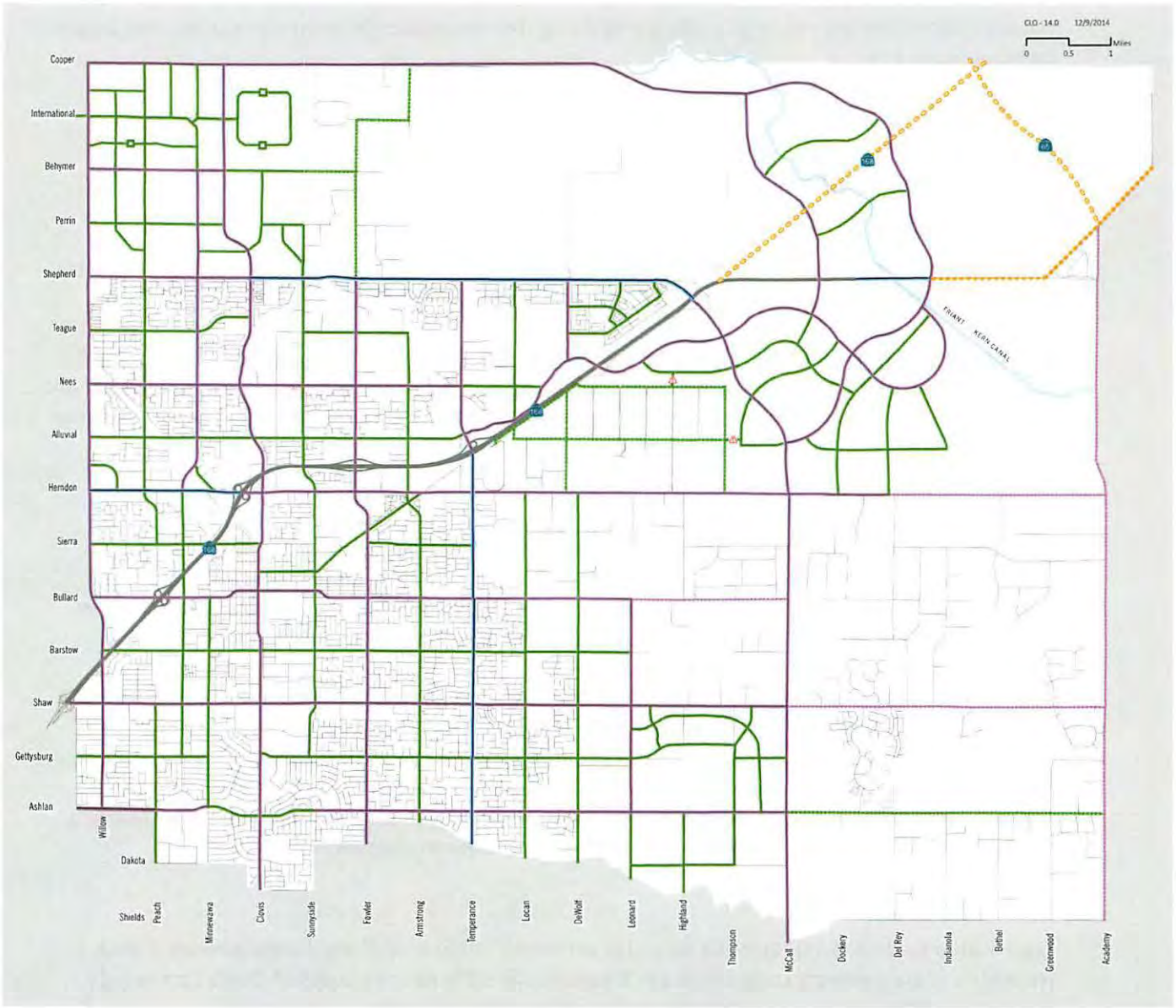
The City's ATP has identified improvements to the pedestrian network based on a citywide sidewalk network gap analysis. Additionally, several potential locations have been identified to install mid-block crossings to improve trail connectivity throughout Clovis. Figure 4-6 illustrates the existing and proposed trails and paseos in Clovis. As shown on Figure 4-6, Clovis Old Town Trail exists on the southbound direction of Willow Avenue within the study area. However, additional trails are being proposed in the study area such as along Shepherd Avenue and Minnewawa Avenue.

### 4.2.3 Transit Network

Fresno Area Express (FAX) Route 03 operates within the study area along Willow Avenue, 7 days a week. The route connects communities in Fresno to the different campuses of Clovis Community College. In addition to fixed route services, Round Up is the Clovis paratransit service for disabled City residents. Round Up transit vehicles are all accessible in accordance with the Americans with Disabilities Act (ADA) standards. Figure 4-7 illustrates the existing transit system within Clovis.

## 4.3 LIST OF CHAPTER 4.0 FIGURES

- Figure 4-1: City of Clovis Roadway Classification
- Figure 4-2: Existing Plus Project Study Intersection Geometrics and Traffic Control
- Figure 4-3: Cumulative Plus Project Study Intersection Geometrics and Traffic Control
- Figure 4-4: City of Clovis Existing and Proposed Bikeways
- Figure 4-5: City of Clovis Existing Pedestrian Infrastructure
- Figure 4-6: City of Clovis Existing and Proposed Trails and Paseos
- Figure 4-7: City of Clovis Transit System




LSA

FIGURE 4-1

LEGEND

- Freeway
- Conceptual 2-4 Lane State Highway
- State Highway
- Expressway
- Arterial
- Rural Arterial
- Collector
- Rural Collector
- Local
- Emergency Access Only

N

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

City of Clovis Roadway Classific

SOURCE: Clovis General Plan, August 2014

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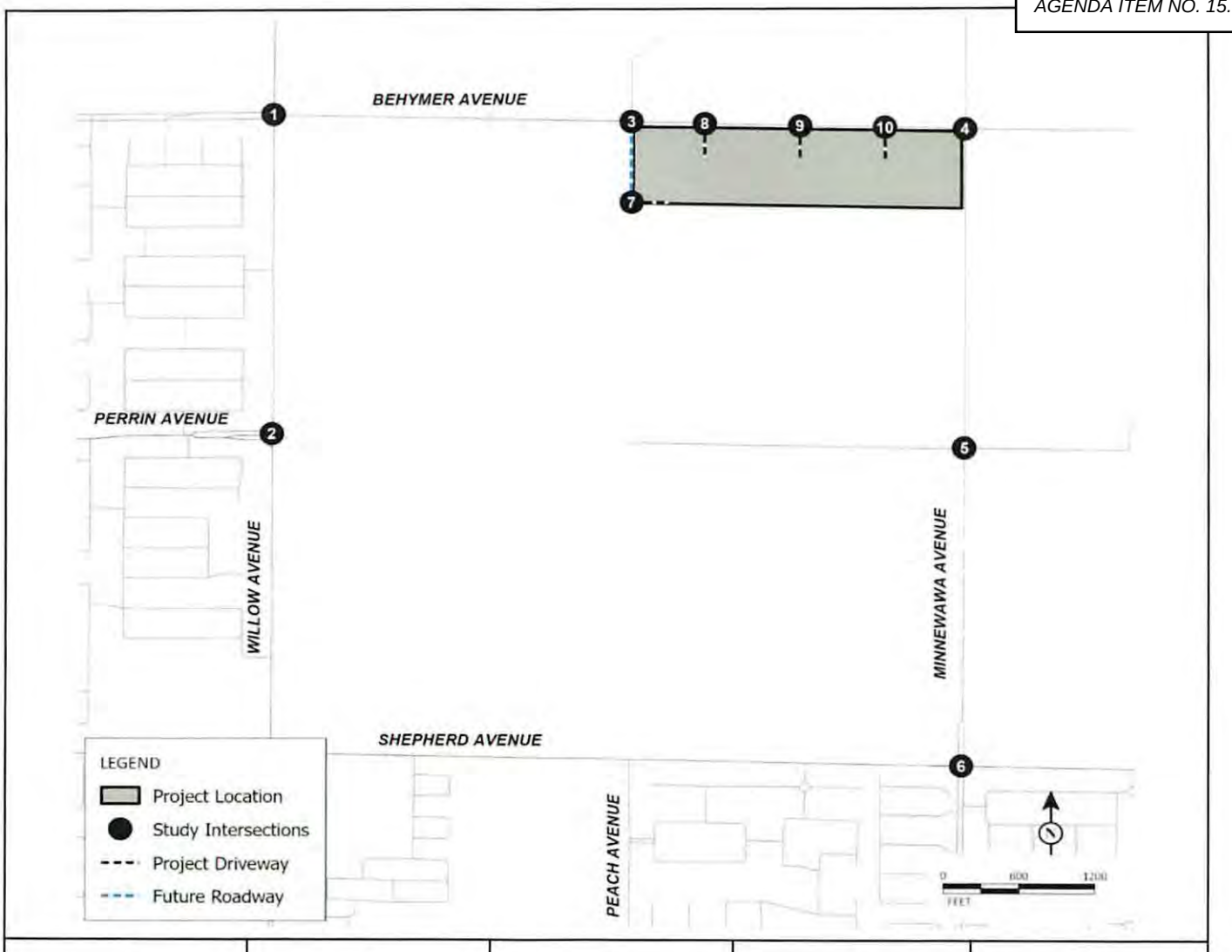


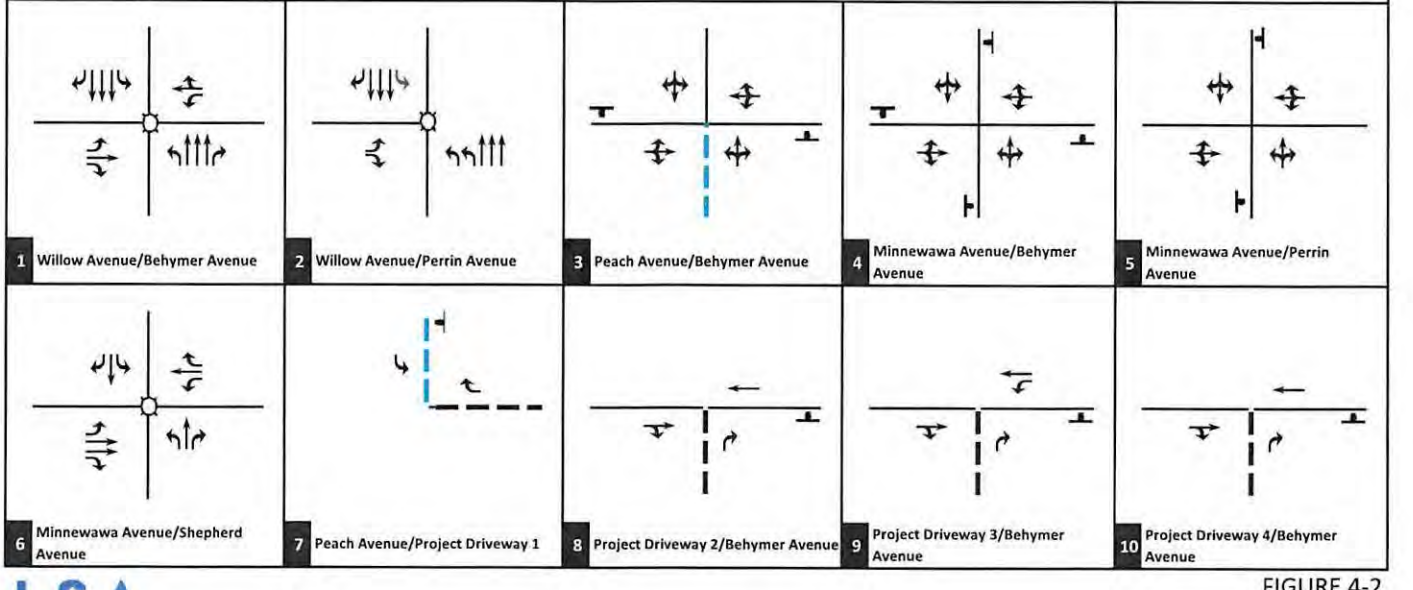


LSA

FIGURE 4-2

Legend

Signal
Stop Sign
Project Driveway
Future Driveway
U-Turn Movement

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Existing Plus Project Study Intersection Geometrics and Traffic Control

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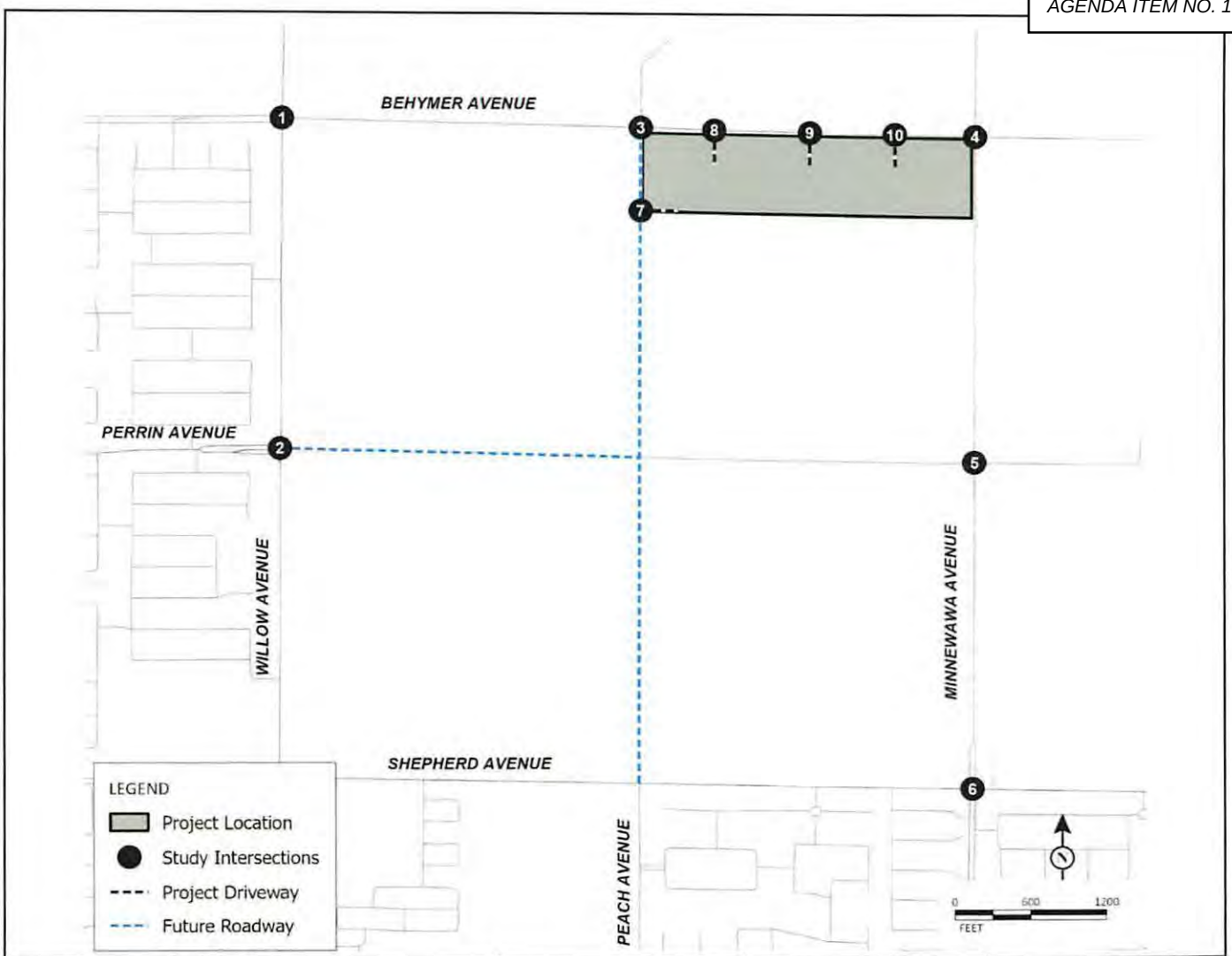


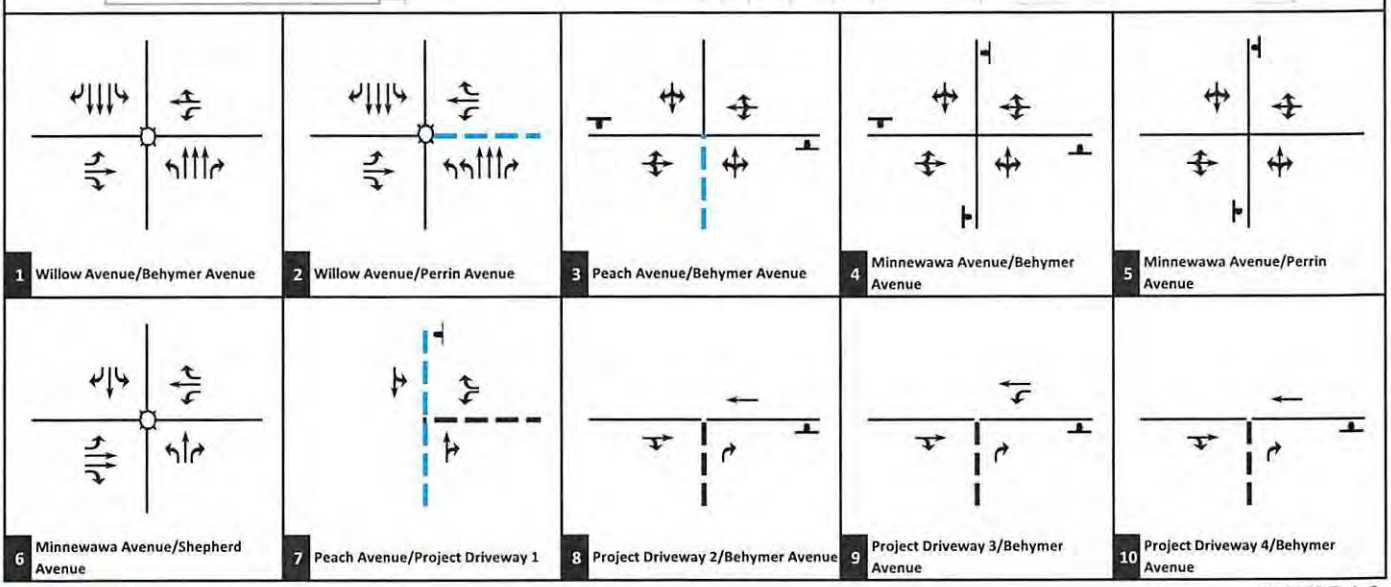


FIGURE 4-3

LSA

Legend

Signal -- Project Driveway

Stop Sign -- Future Driveway

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Cumulative Plus Project Study Intersection Geometrics and Traffic Control

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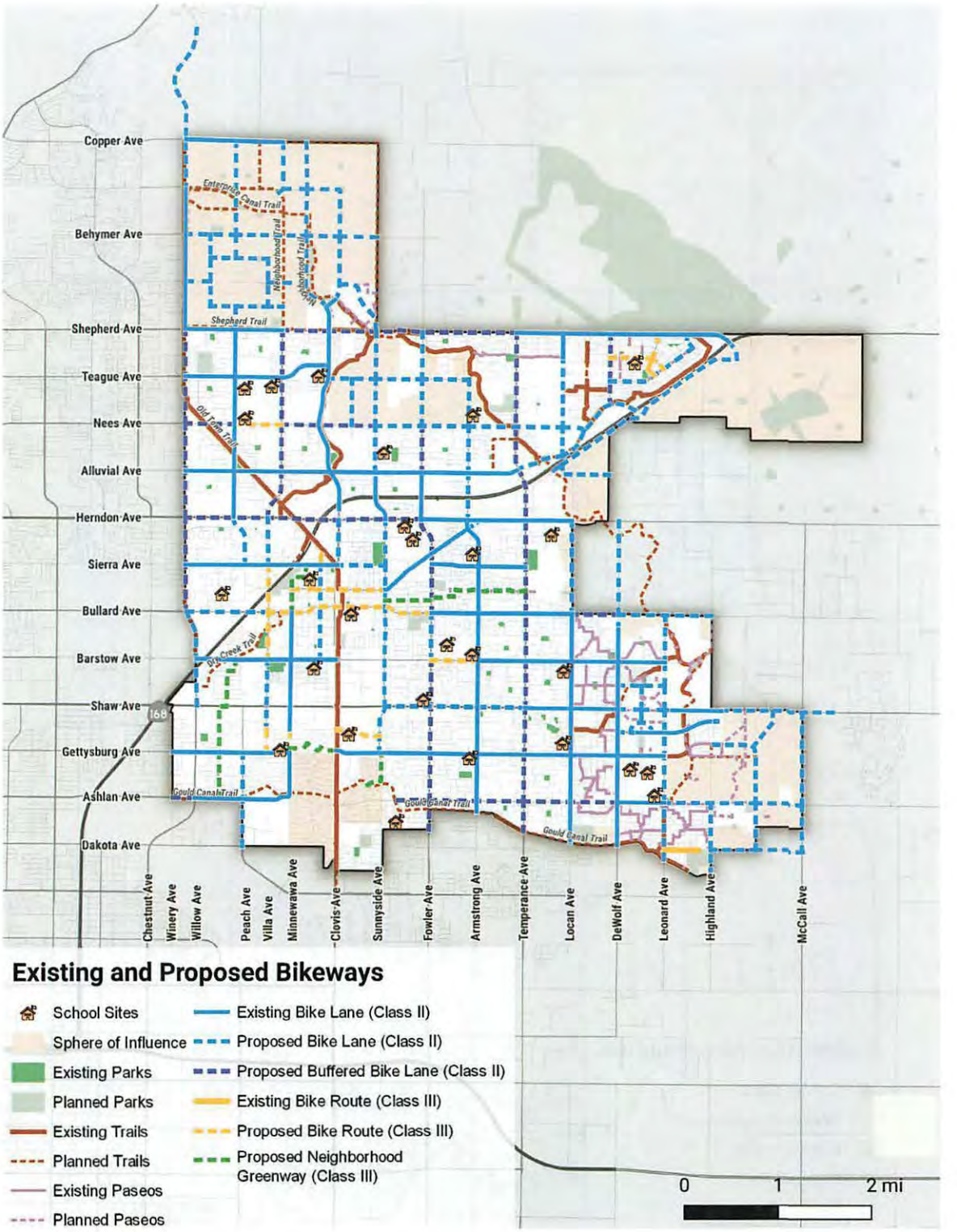


LSA

FIGURE 4-4

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

City of Clovis Existing and Proposed Bike

SOURCE: City of Clovis Active Transportation Plan, September 2023.
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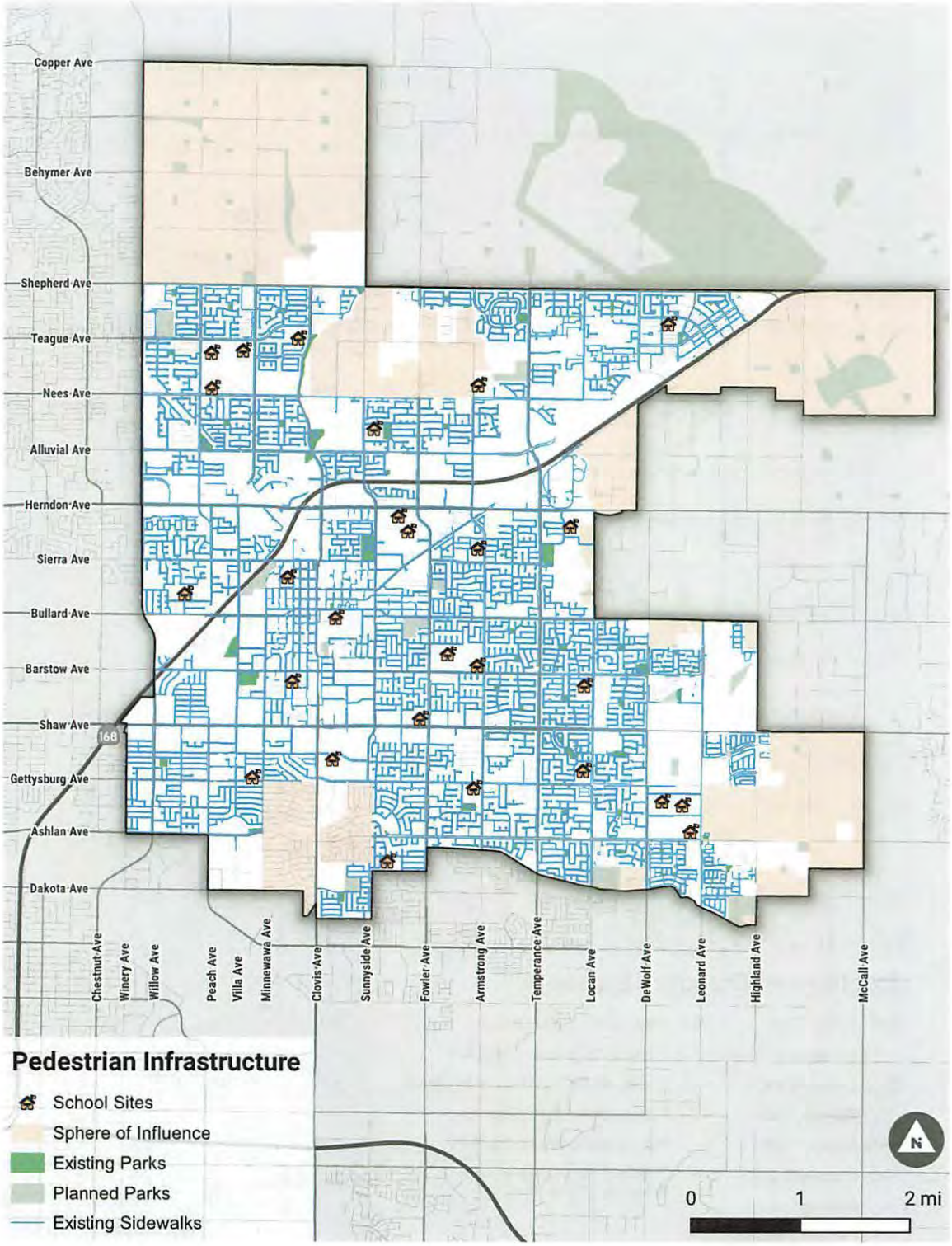


LSA

FIGURE 4-5

N

SOURCE: City of Clovis Active Transportation Plan, September 2023.

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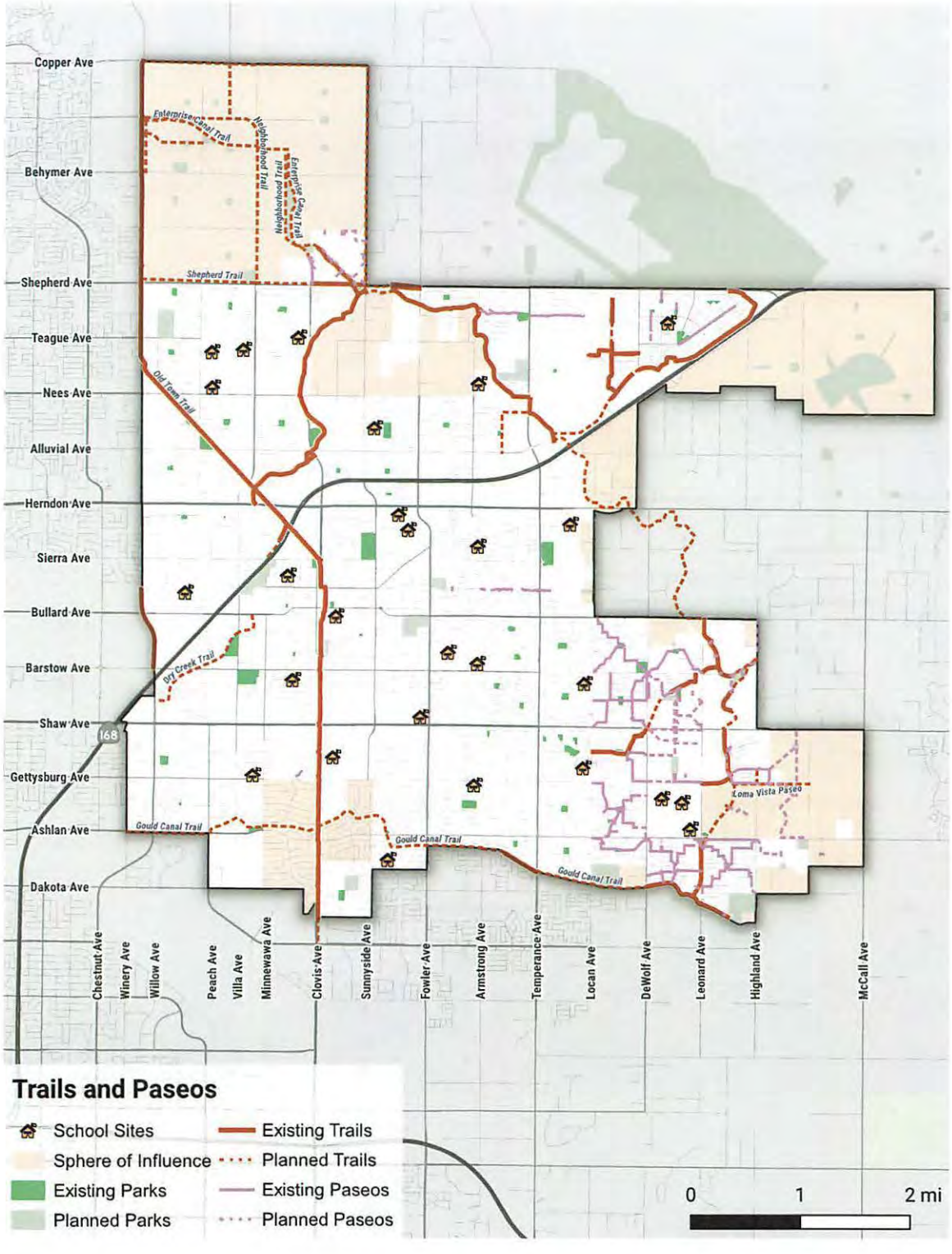
City of Clovis Existing Pedestrian Infrastru




LSA

FIGURE 4-6

N

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

City of Clovis Existing and Proposed Trails and Pa

SOURCE: City of Clovis Active Transportation Plan, September 2023.
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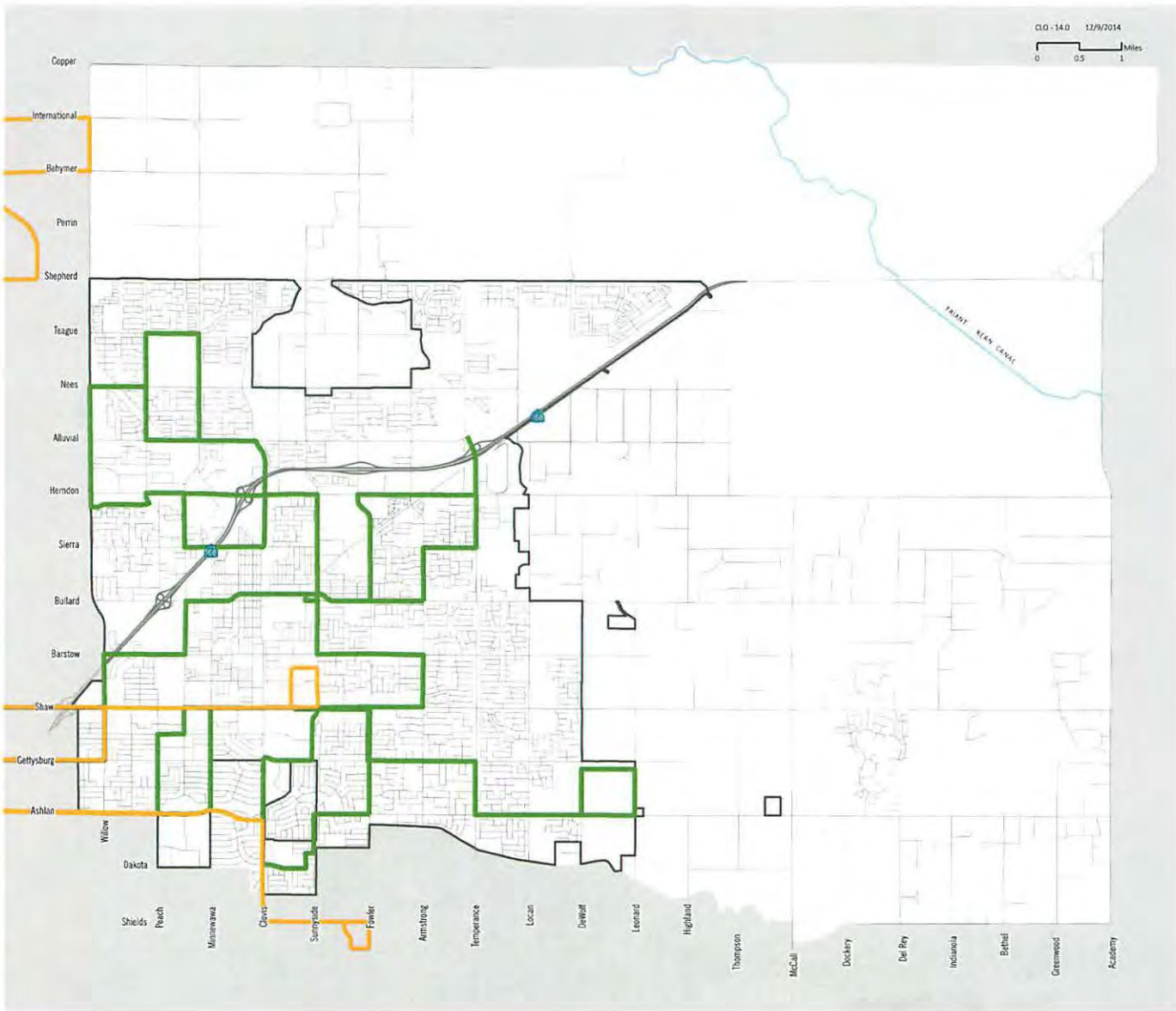


LSA

FIGURE 4-7

LEGEND

- FAX Routes
- Clovis Stageline Route
- City Boundary

N

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

City of Clovis Transit Sy

SOURCE: Clovis General Plan, August 2014

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# 5.0 TRAFFIC VOLUMES FOR WITHOUT PROJECT SCENARIOS

## 5.1 EXISTING TRAFFIC VOLUMES

Traffic volumes for existing conditions were developed using existing count data collected by Counts Unlimited in May 2024 at study intersections, when schools were in session. Vehicle classification counts were collected at selected study area intersections. Truck percentages for every approach at these intersections were obtained from the vehicle classification counts. As for the remaining study intersections without classification counts, truck percentages for the various approaches were applied based on the truck percentages at the adjacent intersections. This truck percentages were applied in Synchro for intersection LOS analysis.

Figure 5-1 illustrates peak-hour traffic volumes at study intersections under existing conditions. Detailed count sheets are included in Appendix C.

## 5.2 NEAR-TERM (2028) WITHOUT PROJECT TRAFFIC VOLUMES

Traffic volumes under the Near-term (2028) and Cumulative (2046) were developed using the Fresno Council of Governments' (COG's) Activity-Based Model (ABM) growth projections. The current base year for Fresno COG ABM is 2019, while the forecast year is 2046.

The forecast year model socioeconomic data were evaluated to check whether it includes information regarding the approved and pending projects in the region. Information concerning approved and pending projects within the vicinity of the study area were obtained from the City of Clovis, City of Fresno, and County of Fresno, and were compared with the future year socioeconomic data for their respective TAZ. In case it was determined that the respective project was not included, the project information was manually added into the model for generating future year traffic volumes. As such, the updated model included all potential approved and pending projects as provided by the City of Clovis and adjacent jurisdictions to be built by future year conditions. Figure 5-2 illustrates these approved and pending project locations. Table 5.A summarizes the proposed land uses and quantities for these projects.

Growth from the model base to the model future was applied to existing traffic volumes to develop Near-Term (2028) without project traffic volumes. The methodology used to develop cumulative traffic volumes at all study intersections is consistent with the National Cooperative Highway Research Program (NCHRP) and Fresno COG's procedures for post-processing of modeled traffic volumes. As such, Near-Term (2028) without project traffic volumes were developed by interpolating between Existing (2024) and Cumulative (2046) traffic volumes. Figure 5-3 illustrates the peak-hour traffic volumes at study intersections under near-term without project conditions.

It should be noted that volume development for this scenario have been conducted as an intermediate step for the development of traffic volumes for the Near-Term Plus Project Conditions. As such, as recommended in the City's TIA Guidelines and approved during the scoping agreement process, this scenario has not been analyzed in the LTA.

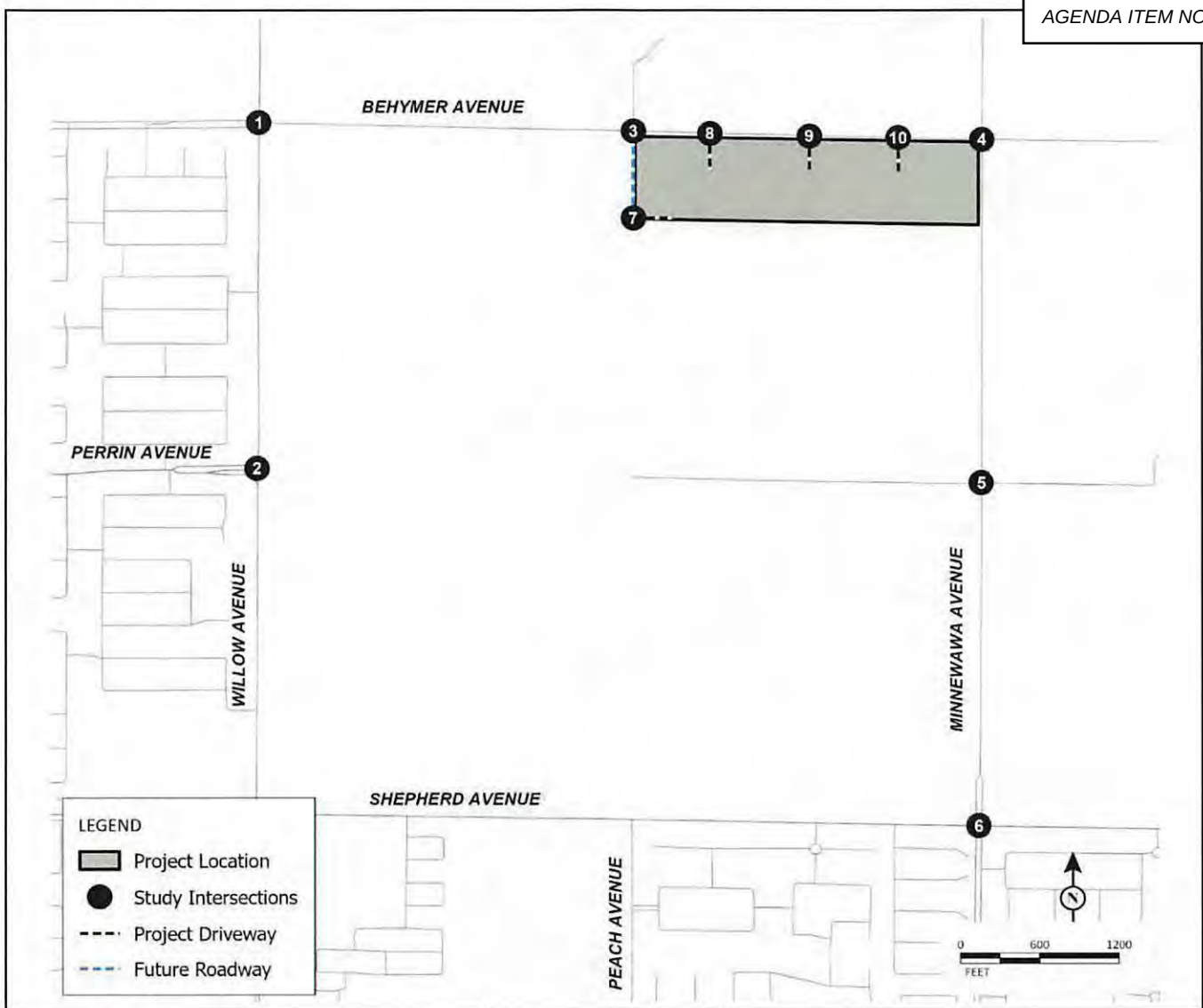
## 5.3 CUMULATIVE (2046) WITHOUT PROJECT TRAFFIC VOLUMES

As previously mentioned, traffic volumes for cumulative conditions were developed using the Fresno COG ABM. The methodology used to develop cumulative traffic volumes at all study intersections is consistent with the National Cooperative Highway Research Program (NCHRP) and Fresno COG's procedures for post-processing of modeled traffic volumes. Figure 5-4 illustrates the peak-hour traffic volumes at study intersections under cumulative without project conditions.

Detailed volume development worksheets are included in Appendix D.

## 5.4 LIST OF CHAPTER 5.0 FIGURES AND TABLES

- Figure 5-1: Existing Peak-Hour Traffic Volumes
- Figure 5-2: Approved and Pending Project Locations
- Figure 5-3: Near-Term (2028) without Project Peak-Hour Traffic Volumes
- Figure 5-4: Cumulative (2046) without Project Peak-Hour Traffic Volumes
- Table 5.A: Approved and Pending Projects



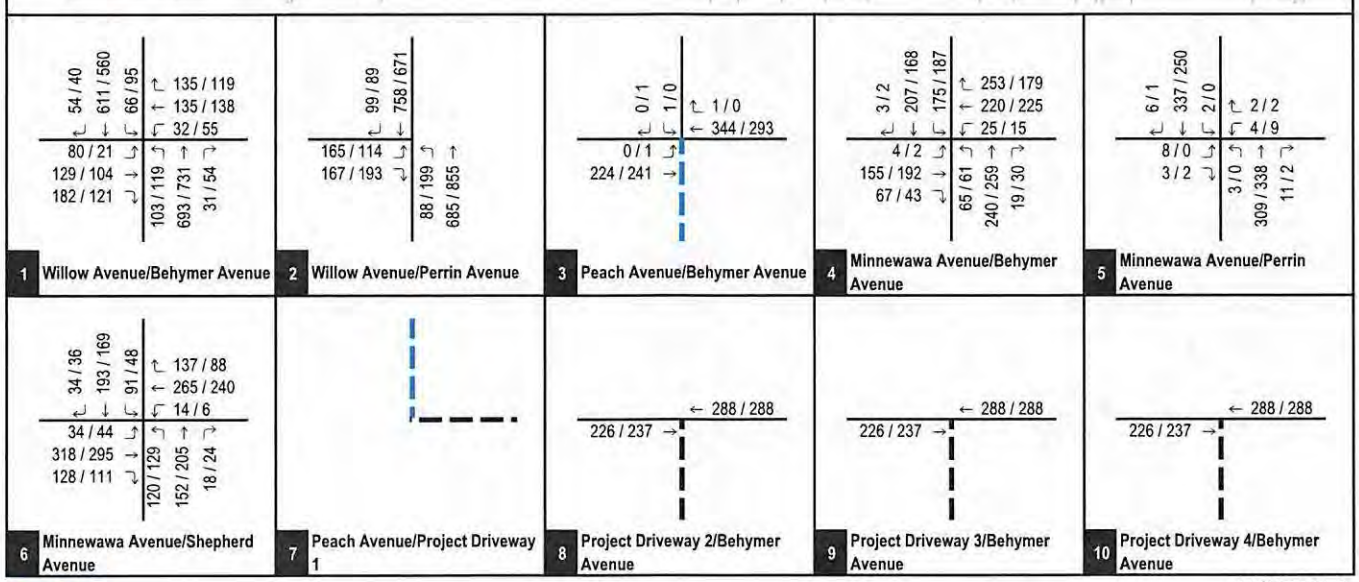



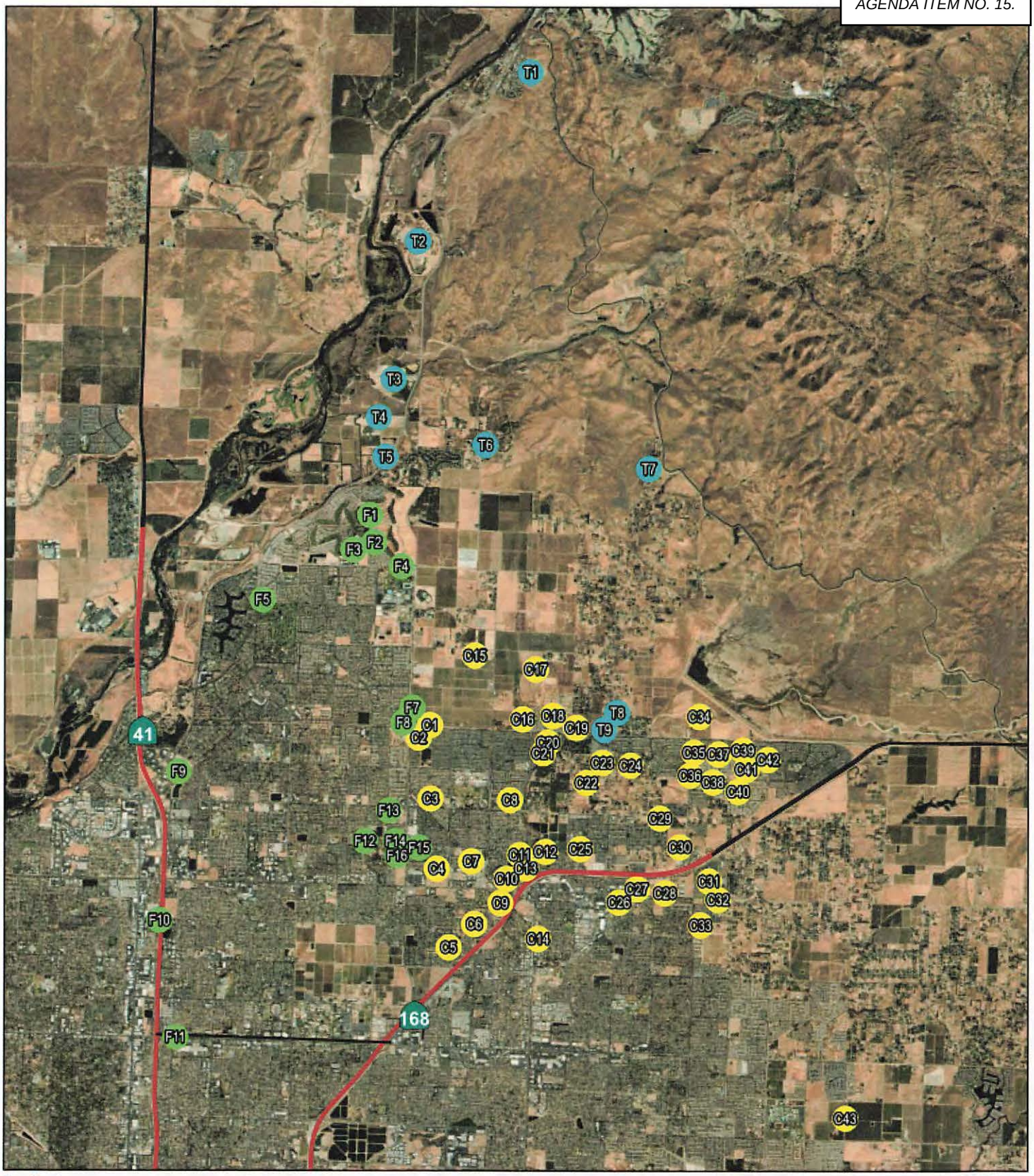

FIGURE 5-1

LSA

XXX / YYY
AM / PM Peak Hour Traffic Volumes

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Existing Peak Hour Traffic Volumes




LSA

LEGEND

- City of Clovis
- City of Fresno
- County of Fresno

0 4000 8000
FEET

FIGURE 5-2

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Approved and Pending Project Loc

SOURCE: Google Earth 2021; ESRI Streetmap, 2021

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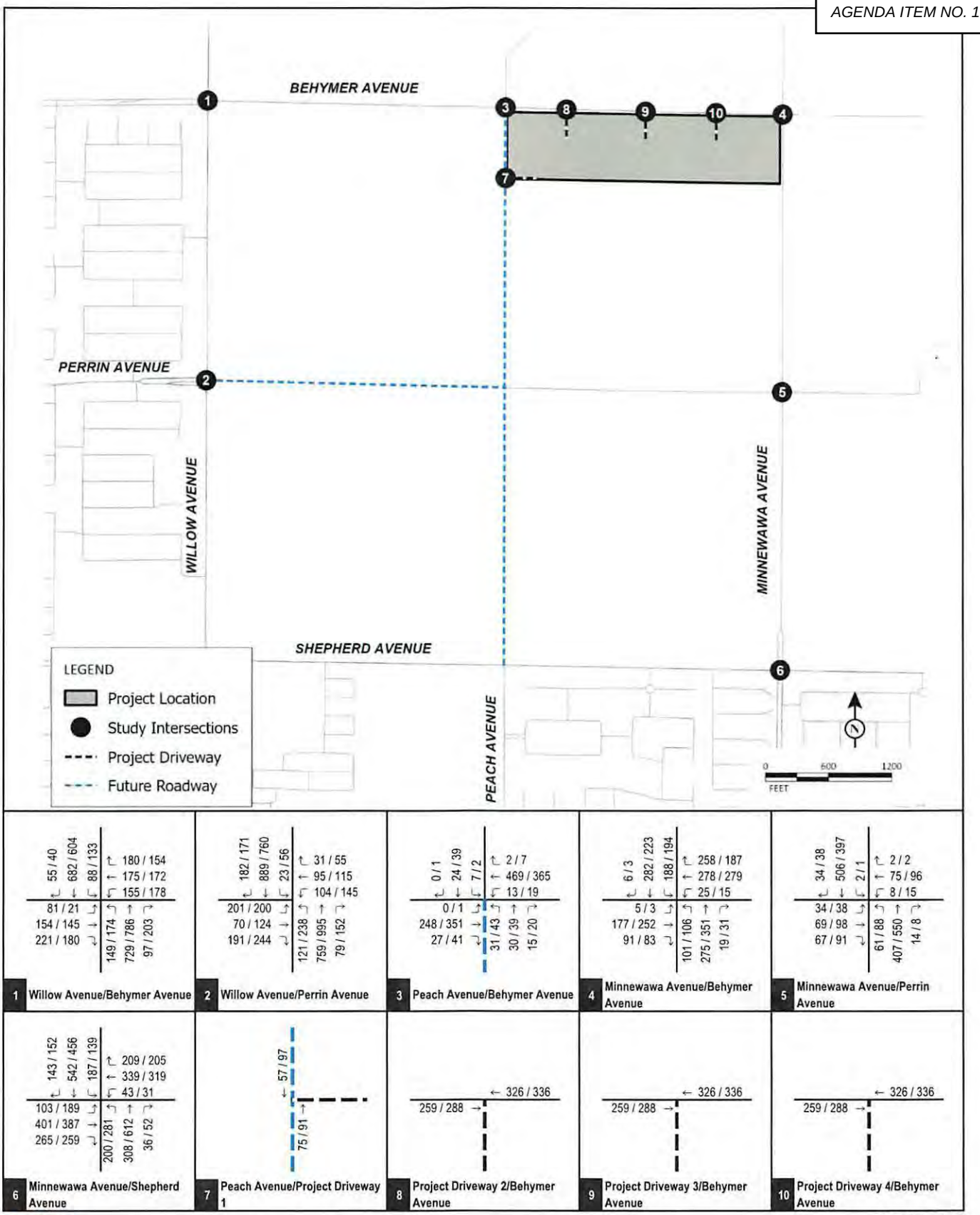


FIGURE 5-3

LSA

XXX / YYY
AM / PM Peak Hour Traffic Volumes

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Near-Term (2028) without Project Peak Hour Traffic Volumes

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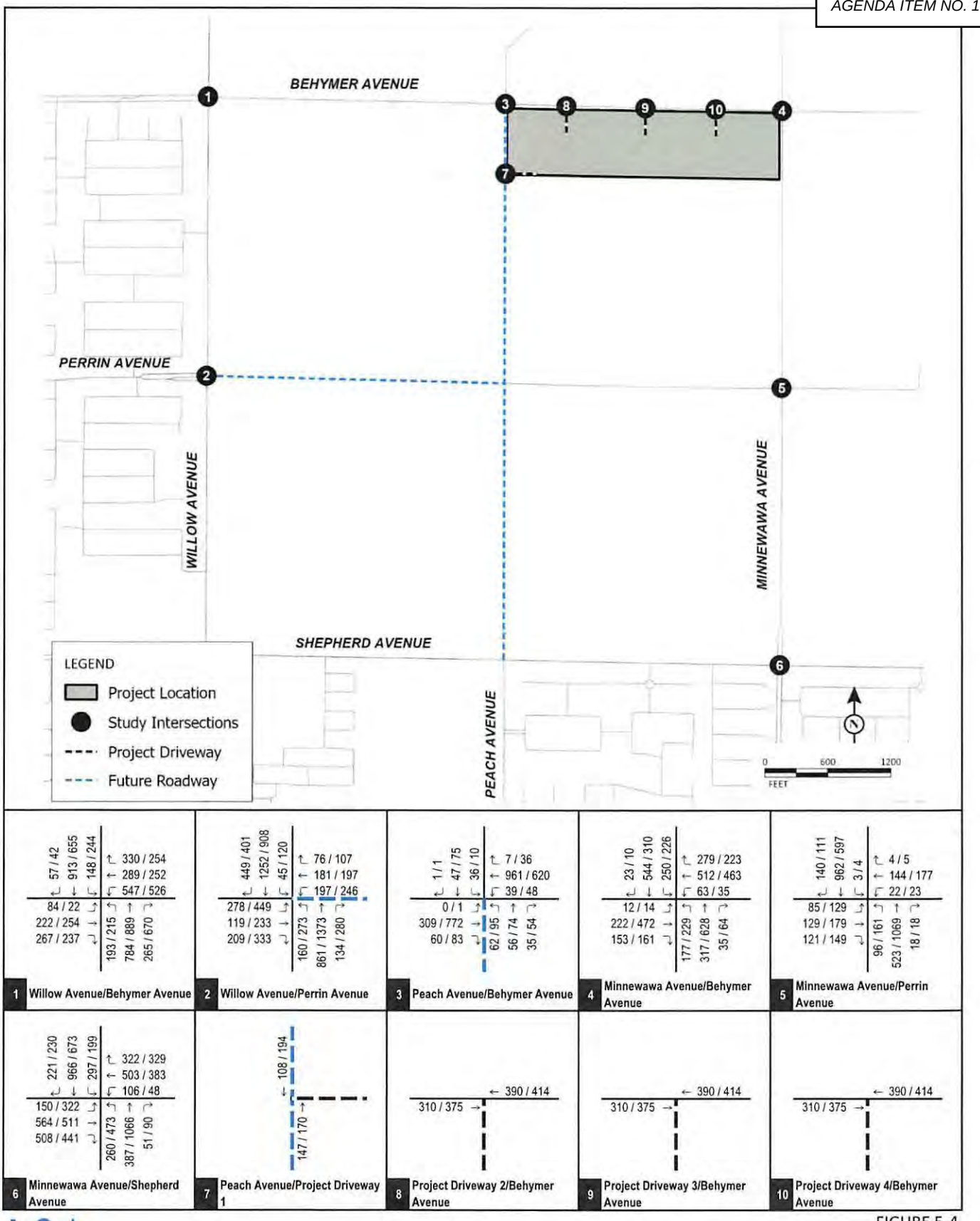


FIGURE 5-4

LSA

XXXX / YYYY
AM / PM Peak Hour Traffic Volumes

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Cumulative (2046) without Project Peak Hour Traffic Volumes

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P:\20231101 De Young Annexation\GIS\Cumulative Projects_Heritage_Master.mxs\Complete (9/17/2024)

## Table 5.A - Approved and Pending Projects

| ID | Jurisdiction | Project Name/Reference | Address/Location | Project Description | Project Units/Area/Other |
|---|---|---|---|---|---|
| C1 | City of Clovis | SPR 2021-09 | 1958 N Willow Avenue | Commercial Expansion | 24,287 TSF |
| C2 | City of Clovis | MPDA 2021-02 | SEC of Willow Ave/Shepherd Ave | Multi-Family Dwelling Units | 255 MFDU |
| C3 | City of Clovis | TM 6348 | NEC of Temmy Ave/Ness Ave | Single Family Development | 10 SFDU |
| C4 | City of Clovis | TM 6262 | NWC of Peach Ave/Herndon Ave | Single Family Development | 185 SFDU |
| C5 | City of Clovis | TM 6125 | NWC of Peach Ave/Stuart Ave | Single Family Development | 25 SFDU |
| C6 | City of Clovis | PM 2022-002 | NWC of Villa Ave/Sierra Ave | Single Family Development | 4 SFDU |
| C7 | City of Clovis | SPR 2015-002 | North of Spruce Ave and West of Halifax Ave | Office/Warehouse | 37.68 TSF |
| C8 | City of Clovis | The Well Community Church | NWC of Clovis Ave/Nees Ave | Church Expansion | 80 TSF |
| C9 | City of Clovis | SPR 2008-016A2 | NEC of Fairfax Ave/Palo Alto Ave | Office/Warehouse | 4.488 TSF |
| C10 | City of Clovis | SPR 2021-014 | 520 Park Creek | Warehouse | 9.897 TSF |
| C11 | City of Clovis | SPR 2022-005 | NEC of Pollasky Ave/Park Creek Dr | Office/Warehouse | 19 TSF |
| C12 | City of Clovis | SPR 2022-002 | NEC of Pollasky Ave/Park Creek Dr | Office/Warehouse | 14.218 TSF |
| C13 | City of Clovis | 603 & 623 Pollasky Avenue | NEC of Pollasky Ave/Park Creek Dr | Office/Warehouse | 13.641 TSF |
| C14 | City of Clovis | Landmark Common Civic Center North (CIP 15-03) | NEC of Clovis Ave/3rd Street | Mixed-use development consisting of approximately 67 TSF of community and office uses | 30 TSF Senior Activity Center; 8,766 TSF Transit Center; 30 TSF Library. |
| C15 | City of Clovis | Heritage Grove Specific Plan | North Clovis | Specific Plan | 275 TSF Retail; 50 TSF Commercial/Office; 150 RM Hotel. |
| C16 | City of Clovis | TM 6050 (TM 6328,TM 6329) | NEC of Clovis Ave/Shepherd Ave | Single-Family Dwelling Units | 255 SFDU |
| C17 | City of Clovis | TM 6343 | NEC of Clovis Ave/Shepherd Ave | Single-Family Dwelling Units | 590 SFDU |
| C18 | City of Clovis | TM 6200 (TM6452, TM6292, TM6344,TM6342,TM6406) | On Shepherd Ave, between Clovis Ave and Sunnyside Ave | Single-Family Dwelling Units | 576 SFDU |
| C19 | City of Clovis | TM 6205 - Shepherd North | NEC of Shepherd Ave/Sunnyside Ave | Single-Family Dwelling Units | 605 SFDU |
| C20 | City of Clovis | TM 6263 | South side of Teague Avenue near Purdue Avenue | Single-Family Dwelling Units | 74 SFDU |
| C21 | City of Clovis | TM 6268 | SWC of Clovis Ave and Riordan Ave | Single-Family Dwelling Units | 10 SFDU |
| C22 | City of Clovis | TM 6284 | South side of Teague Avenue near Purdue Ave | Single-Family Dwelling Units | 74 SFDU |
| C23 | City of Clovis | TM 6154 | NWC of Fowler Ave and Teague Aven | Single-Family Dwelling Units | 95 SFDU |
| C24 | City of Clovis | TM 5550 | 1991 Trenton Ave | Single-Family Dwelling Units | 31 SFDU |
| C25 | City of Clovis | The Palms 15 | NEC of Sunnyside Ave/Alluvial Ave | Multi-Family Dwelling Units | 12 MFDU |
| C26 | City of Clovis | Clovis Unified School District Fowler-Henderson Campus | SEC of Fowler Ave/Herndon Ave | Educational Institution | 62 Employees; 170 Students; 50 Staff; 90 TSF Office; Future Admin Building. |
| C27 | City of Clovis | SPR 2003-017A2 | NWC of Armstrong Ave/Herndon Ave | Medical Office | 7.02 TSF |
| C28 | City of Clovis | SPR 2019-016 | NEC of Armstrong Ave/Herndon Ave | VA Site - Current phase will be parking only, no building. Building will start 1-yr after parking is completed. | 211 TSF |
| C29 | City of Clovis | TM 6367 | West of Temperance Ave and Ness Ave | Single-Family Dwelling Units | 8 SFDU |
| C30 | City of Clovis | SPR 2023-010 | NWC of Temperance Ave/Alluvial Ave | Office /Warehouse | Admin building - 62 employees and 30 students; Online education building - 50 staff and 140 students; School district office - 90 k.s.f. |
| C31 | City of Clovis | SPR 90-088A12 | 2755 Herndon Ave | Medical Hospital Expansion | 150 Occupied Beds Hotel; 220,000 TSF Retail; 468.844 TSF Hospital; 354.392 TSF MOB; 100 Occupied Bed Assisted Living |
| C32 | City of Clovis | SPR 2018-020 | SEC of Herndon Ave/Coventry Ave | Assisted Living | 150 Beds |
| C33 | City of Clovis | SPR 2007-025A2 | East of Temperance Ave and Coventry Ave | Office/Warehouse | 3.373 TSF |
| C34 | City of Clovis | TM 6438 - Vista Ranch | NEC of Temperance Ave/Shepherd Ave | Single-Family Dwelling Units and Multi-Family Dwelling Units | 3149 MFDU; 137 SFDU; 200 TSF Commercial; 421 TSF Mini Storage; 3 Acres Public Park. |
| C35 | City of Clovis | TM 6301 | SEC of Temperance Ave/Powers Ave | Single-Family Dwelling Units | 55 SFDU |
| C36 | City of Clovis | TM 6209 | SEC of Temperance Ave/Powers Ave | Single-Family Dwelling Units | 71 SFDU |
| C37 | City of Clovis | TM 6109 | SEC of Temperance Ave/Powers Ave | Single-Family Dwelling Units | 101 SFDU |
| C38 | City of Clovis | TM 6339 | South of Moody Ave and East of Locan Avenue | Single-Family Dwelling Units | 37 SFDU |

LSA

**Table 5.A - Approved and Pending Projects**

| ID | Jurisdiction | Project Name/Reference | Address/Location | Project Description | Project Units/Area/Other |
|---|---|---|---|---|---|
| C39 | City of Clovis | TM 6239 | East of Locan Avenue and South of Shepherd Ave . | Single-Family Dwelling Units | 162 SFDU |
| C40 | City of Clovis | TM 6277 | NEC of Locan Ave/Teague Ave | Single-Family Dwelling Units | 8 DU |
| C43 | City of Clovis | TM 6332 | NEC of Locan Ave/Teague Ave | Single-Family Dwelling Units | 59 DU |
| C44 | City of Clovis | TM 6389 | NEC of Locan Ave/Teague Ave | Single-Family Dwelling Units | 41 DU |
| C45 | City of Clovis | Home Place Master Plan | NEC of Leonard Ave/Ashlan Ave | Single-Family Dwelling Units, Multi-Family Dwelling Units & Commercial Development | 1174 SFDU; 132 MF. |
| F1 | City of Fresno | McDonald Homes Plan | 11479 N Willow Ave | Single-Family Dwelling Units in the Copper River Ranch Specific Plan | 22 SFDU |
| F2 | City of Fresno | New Single Family Residence | 2442 Copper Ridge | Single-Family Dwelling Units in the Copper River Ranch Specific Plan | 1 SFDU |
| F3 | City of Fresno | Glasgow Project Custom 2-story | 11215 Glasgow Dr | Single-Family Dwelling Units in the Copper River Ranch Specific Plan | 1 SFDU |
| F4 | City of Fresno | Lennar Townhomes Plan 1003 | 2814 E Teaberry Dr | Single-Family Dwelling Unit | 1 SFDU |
| F5 | City of Fresno | New Single Family Residence | 1051 Turnberry Ave | Single-Family Dwelling Units | 2 SFDU |
| F7 | City of Fresno | Shell Building -The Row - Pad 1 | 2896 Shepherd Ave | Comercial - Shell Building (All Occupancies) | 4.013 TSF |
| F8 | City of Fresno | Shell Building -The Row - Pad 4 | 2884 E Shepherd Ave | Comercial - Shell Building (All Occupancies) | 4.46 TSF |
| F9 | City of Fresno | Shell Building - Park Crossing - Shops C | 8472 Friant Rd | Comercial - Shell Building (All Occupancies) | 1.684 TSF |
| F10 | City of Fresno | Change of Occupancy_ Banyan Tree Retail | 207 Sierra Ave | Comercial - Restaurants, Cafes, etc. | 3 TSF |
| F11 | City of Fresno | Shaw/Fresno Commercial | 417 Shaw Ave | Comercial - Shell Building (All Occupancies) | 2.24 TSF |
| F12 | City of Fresno | MFR Avalon Complex | 7521 Chestnut Ave | Multi-Family Dwelling Units | 60 MFDU |
| F13 | City of Fresno | Comm Misc. | 2777 Nees Ave | Cross City Church - 8 EV Chargers & Site Lighting | 2000811 |
| F14 | City of Fresno | New Residential Buildings | 2808 Alluvial Ave | Multi-Family Dwelling Units | 28 MFDU |
| F15 | City of Fresno | MFR Building | 7346 Willow Ave | Multi-Family Dwelling Units | 176 MFDU |
| F16 | City of Fresno | Community/Office Building | 7355 Willow Ave | Industrial - Storage | 8.362 TSF |
| T1 | County of Fresno | Friant Ranch Specific Plan | Specific Plan 5 miles north of City of Fresno | Single-family and multi-family residential units, commercial village center, and recreation center. | 2,270 Housing (55+ age restricted); 180 MFDU (non-age restricted); 16.1 acre Recreation and Fitness Complex and Community Lodge; 250 TSF commercial and retail space; 50 DU housing at the Village Center; 6 acre Depot Commercial. |
| T2 | County of Fresno | CUP 3667 - Pete LoCastro CMEX | West of Friant Road | Quarry Site | 349 acres Quarry Site; 122 acres Plant Site; Interplant haul of 225 truckloads per day (or 450 truck trips per day); 110 Existing Employees. |
| T3 | County of Fresno | CUP 3666 – Pete LoCastro CMEX | NWC of Friant Rd/Birkhead Ave | Plant Site | |
| T4 | County of Fresno | VA 4155 | SWC of Old Friant Rd/Birkhead Ave | Single-Family Dwelling Unit | 1 SFDU |
| T5 | County of Fresno | VA 3989 | NEC of Old Friant Rd/Friant Road | Single-Family Dwelling Unit | 1 SFDU |
| T6 | County of Fresno | VA 4012 | NWC of Auberry Road/Garonne Rd | Single-Family Dwelling Units | 3 SFDU |
| T7 | County of Fresno | DRA 4711 | 12329 N Armstrong Ave | Single-Family Dwelling Unit | 1 SFDU |
| T8 | County of Fresno | DRA 4668 | 9254 N Fowler Ave | Single-Family Dwelling Units | 2 SFDU |
| T9 | County of Fresno | DRA 4735 | 5388 E Shepherd Ave | Single-Family Dwelling Unit | 1 SFDU |
| | | | | | |

**Notes:**

SFDU = Single-Family Dwelling Units; MFDU = Multi-Family Dwelling Units; TSF = Thousand Square Feet; RM = Rooms.

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# 6.0 PROJECT TRAFFIC

## 6.1 PROJECT TRIP GENERATION

The trip generation for the proposed project was developed using rates from the ITE *Trip Generation Manual* (11th Edition) for Land Use 210 – "Single-Family Detached Housing – Setting/Location General Urban/Suburban." Table 6.A summarizes the project trip generation. As shown in Table 6.A, the project is anticipated to generate 186 trips in the a.m. peak hour, 250 trips in the p.m. peak hour, and 2,508 daily trips.

## 6.2 PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

The project trip distribution was developed using select zone model runs obtained from the Fresno COG ABM. Appendix A includes the select zone model plots for the proposed project. This was further refined to reflect existing and future circulation network in the vicinity of the proposed project.

Currently, within the project vicinity, Peach Avenue, north of Shepherd Avenue, and Perrin Avenue east of Willow Avenue, are yet to be constructed. As such, it is estimated that this segment of Peach Avenue (between southern end of the project and Shepherd Avenue) along with Perrin Avenue east of Willow Avenue (between Willow Avenue and Peach Avenue) would be constructed along with other major developments within the area as part of the Heritage Grove Specific Plan Project envelop. However, since there is no determined timeline for these circulation improvements, two separate project trip distribution patterns were developed for the project, one for existing and near-term scenario, which reflects the existing circulation network in the project vicinity, and another for cumulative long-term scenario, which accounts for completion of Peach Avenue, Clovis Avenue and Perrin Avenue, among other circulation network improvements.

Additionally, as previously mentioned, upon completion of the adjacent residential projects south of the project limit, project trips may utilize the expanded circulation network to travel south and access Peach Avenue, Perrin Avenue or Minnewawa Avenue. However, as a conservative estimate since these developments are yet to be developed and the circulation network is not finalized, it was estimated that all project trips will be utilizing the four project driveways. This would provide a more conservative estimate in determination of operational efficiencies at the project driveways.

Figure 6-1 illustrates the existing and near-term project trip distribution. Figure 6-2 illustrates the cumulative scenario project trip distribution. The project trip assignment at the study area intersections is the product of the project trip generation and the corresponding trip distribution percentages. Figure 6-3 illustrates the existing and near-term conditions project trip assignment at the study area intersections. Figure 6-4 illustrates the cumulative conditions project trip assignment at the study area intersections.

## 6.3 LIST OF CHAPTER 6.0 FIGURES AND TABLES


- Figure 6-1: Existing and Near-Term Project Trip Distribution
- Figure 6-2: Cumulative Project Trip Distribution
- Figure 6-3: Existing and Near-Term Project Trip Assignment
- Figure 6-4: Cumulative Project Trip Assignment
- Table 6.A: Project Trip Generation

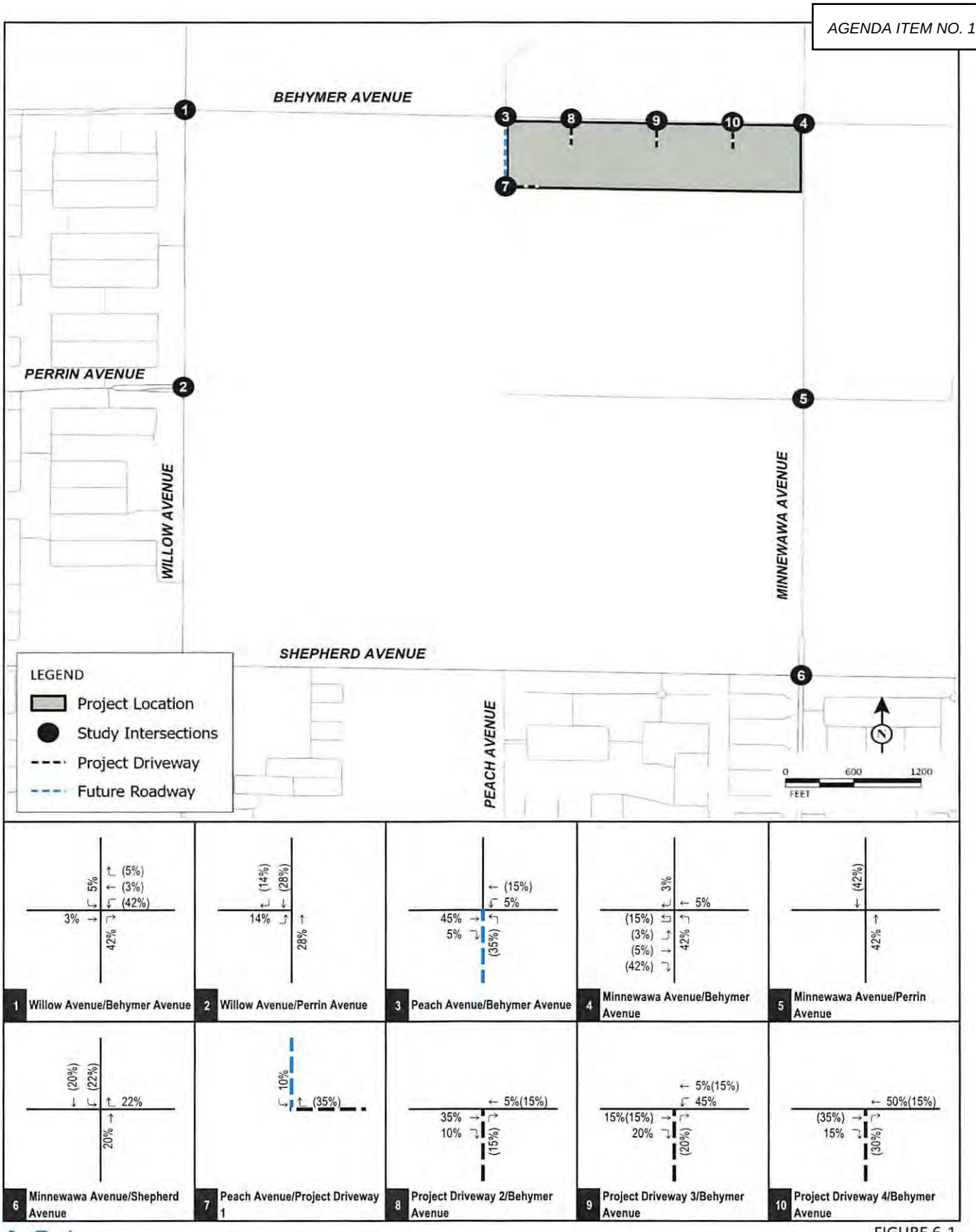


FIGURE 6-1

LSA

XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway
Future Roadway

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Existing and Near-Term Project Trip Distribution

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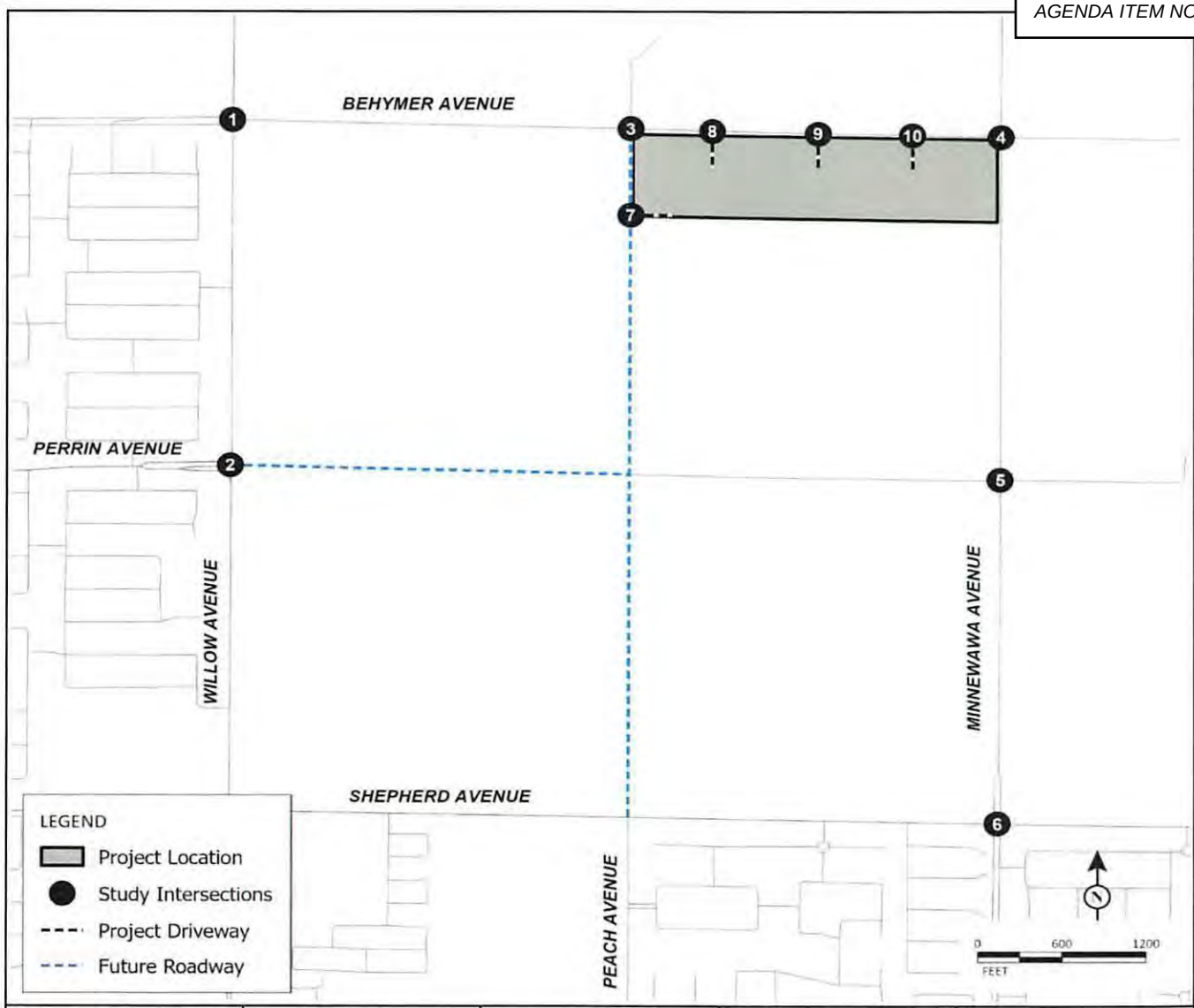


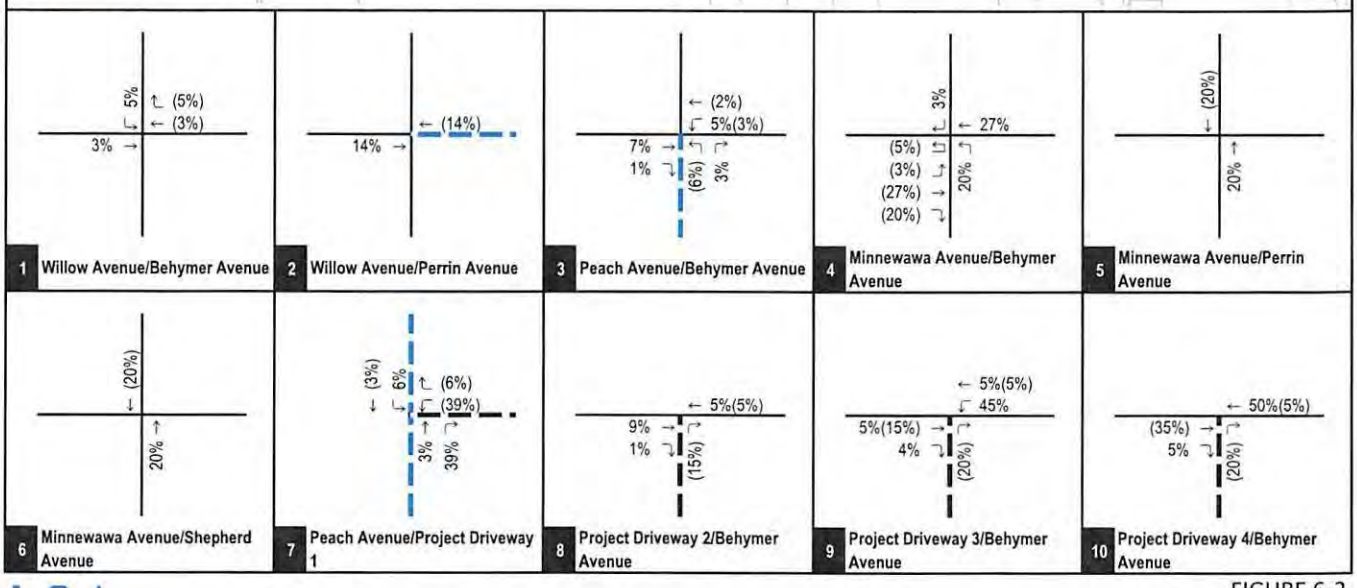


LSA

FIGURE 6-2

XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway
Future Roadway

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Cumulative Project Trip Distribution

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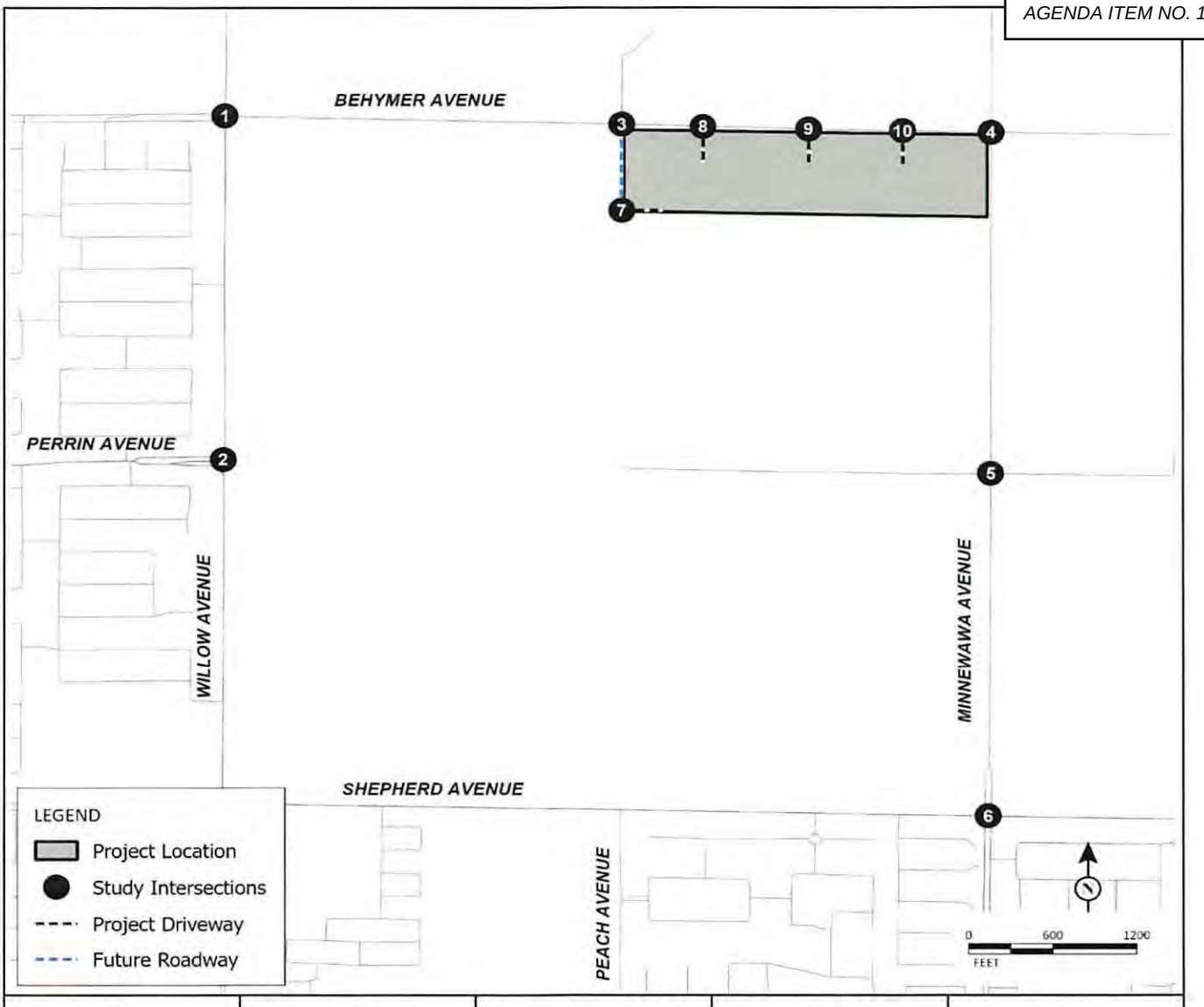


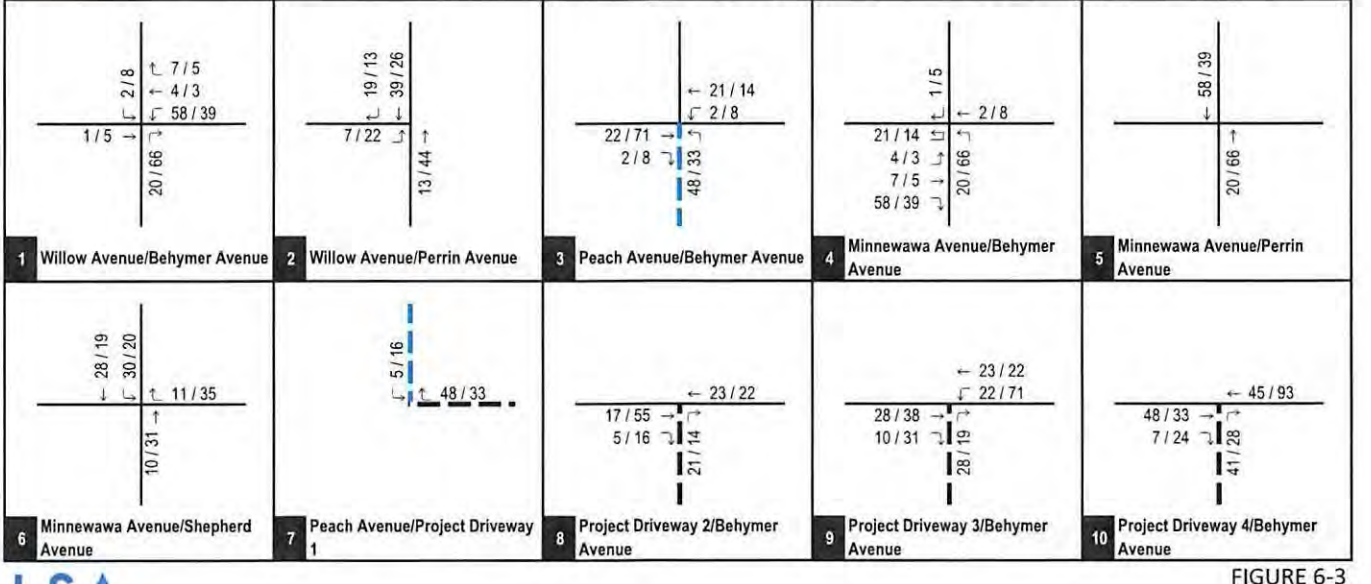


FIGURE 6-3

LSA

XX / YY
AM / PM Peak Hour Trips
Project Driveway
Future Roadway

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Existing and Near-Term Project Trip Assignment

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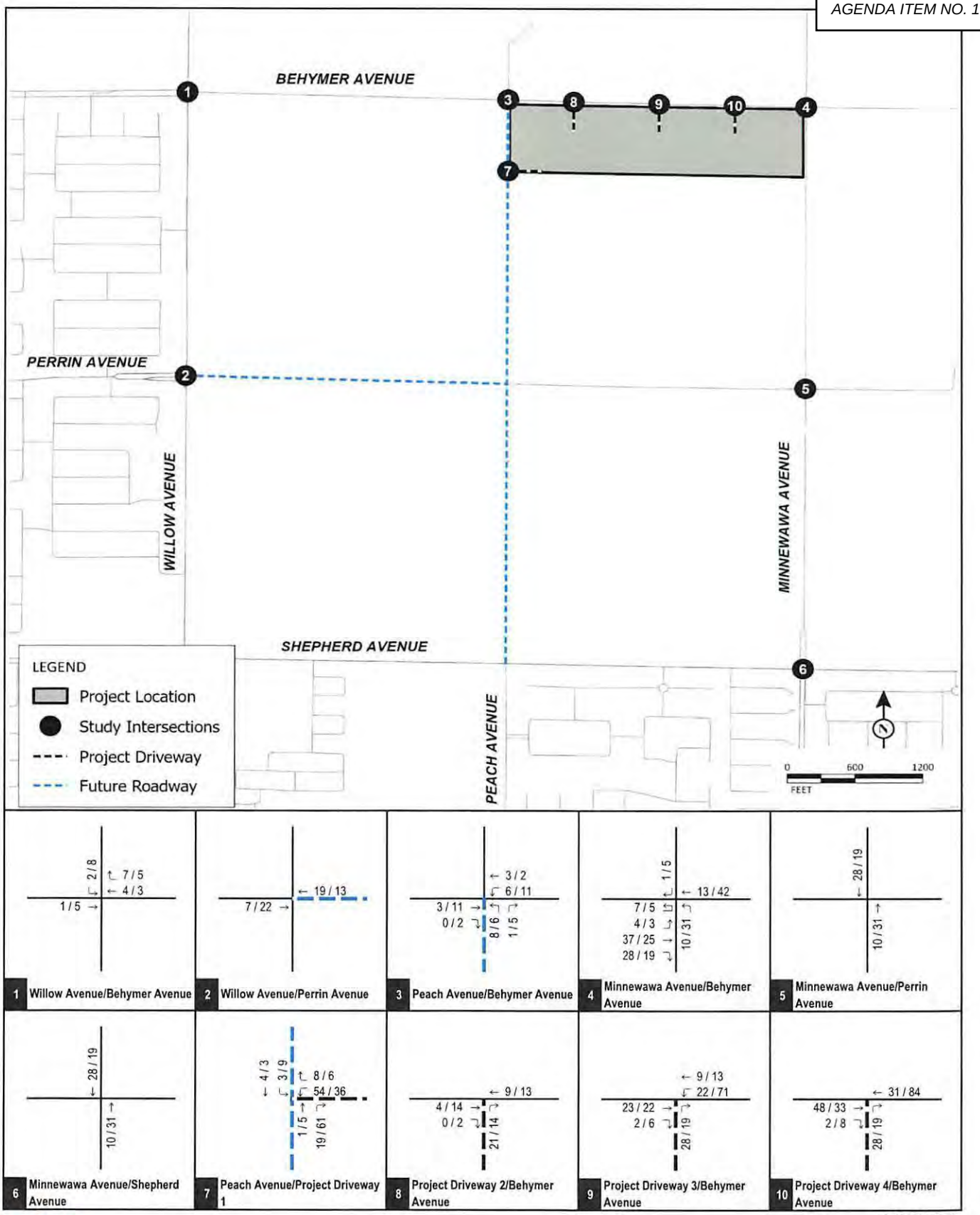


LSA

FIGURE 6-4

XX / YY
AM / PM Peak Hour Trips
Project Driveway
Future Roadway

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Cumulative Project Trip Assignment

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LSA

## Table 6.A - Project Trip Generation

| Land Use | Units | A.M. Peak Hour In | A.M. Peak Hour Out | A.M. Peak Hour Total | P.M. Peak Hour In | P.M. Peak Hour Out | P.M. Peak Hour Total | Daily |
|---|---|---|---|---|---|---|---|---|
| **Single-Family Detached Housing** | 266 DU | | | | | | | |
| Trips/Unit[1] | | 0.18 | 0.52 | 0.70 | 0.59 | 0.35 | 0.94 | 9.43 |
| Trip Generation | | **48** | **138** | **186** | **157** | **93** | **250** | **2,508** |

Notes:

DU = Dwelling Units

[1] Rates based on Land Use 210 - "Single-Family Detached Housing" from the Institute of Transportation Engineers (ITE)*Trip Generation Manual*, 11th Edition, Setting/Location - "General Urban/Suburban."

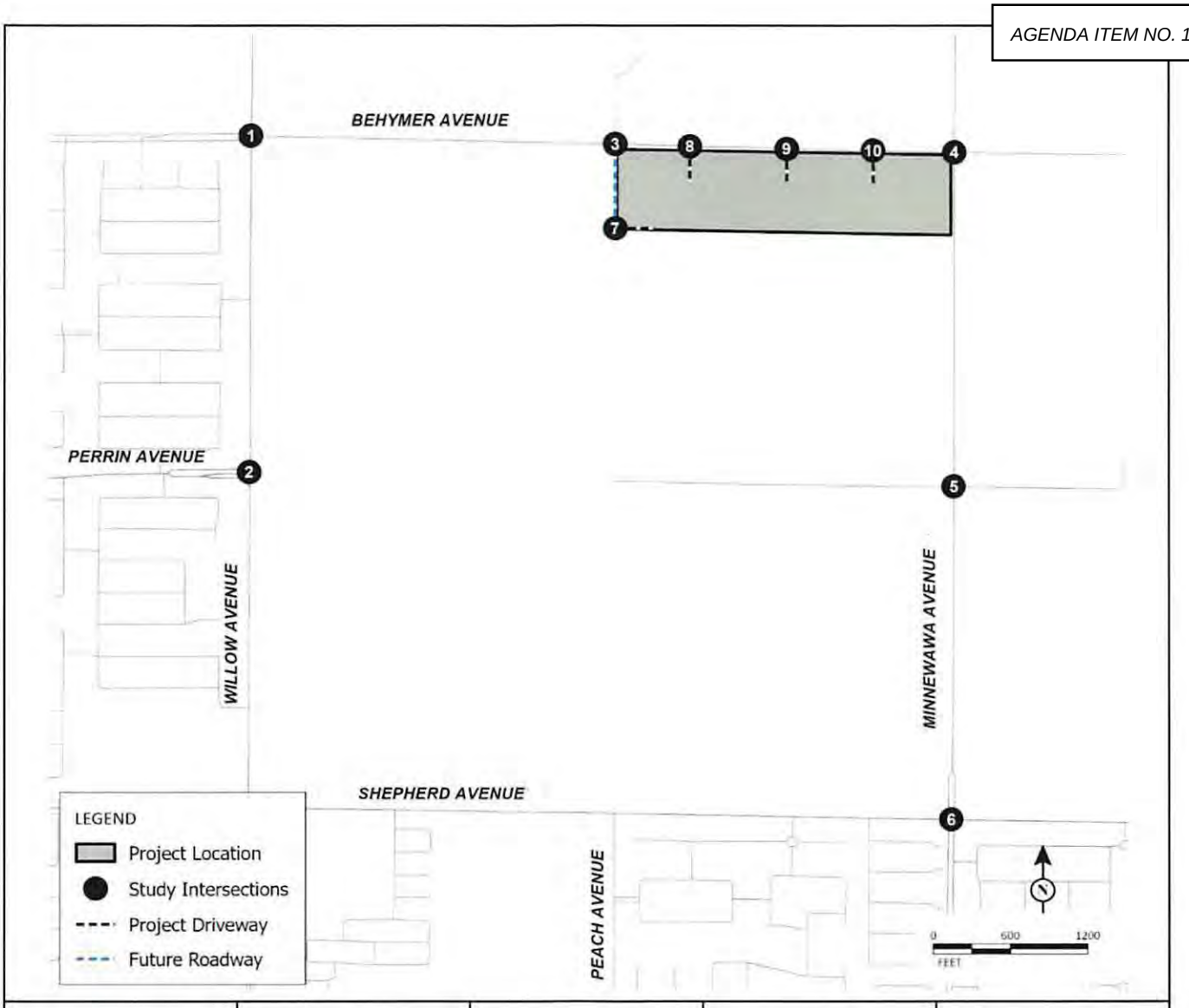
# 7.0 TRAFFIC VOLUMES FOR PLUS PROJECT SCENARIOS

Existing, near-term, and cumulative plus project traffic volumes were developed by adding project traffic to the traffic for the corresponding without project scenarios. Figures 7-1, 7-2 and 7-3 illustrate "plus project" peak-hour traffic volumes at study intersections under existing, near-term, and cumulative conditions, respectively.

Detailed volume development worksheets are included in Appendix D.

## 7.1 LIST OF CHAPTER 7.0 FIGURES

- Figure 7-1: Existing Plus Project Peak-Hour Traffic Volumes
- Figure 7-2: Near-Term (2028) Plus Project Peak-Hour Traffic Volumes
- Figure 7-3: Cumulative (2046) Plus Project Peak-Hour Traffic Volumes



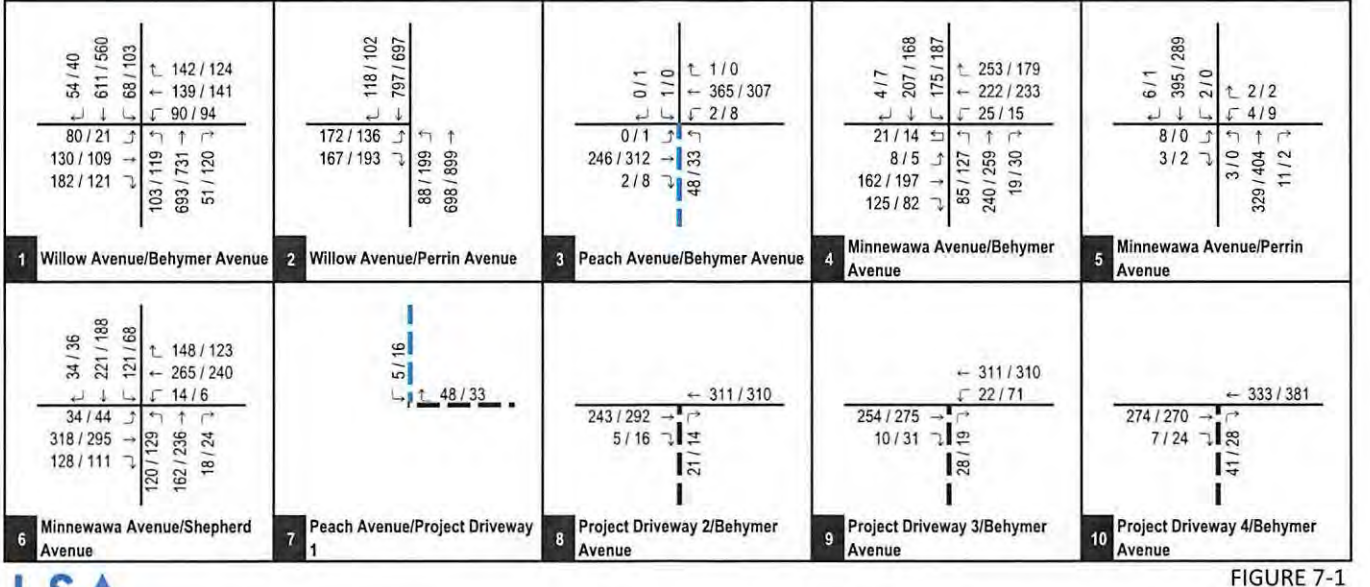



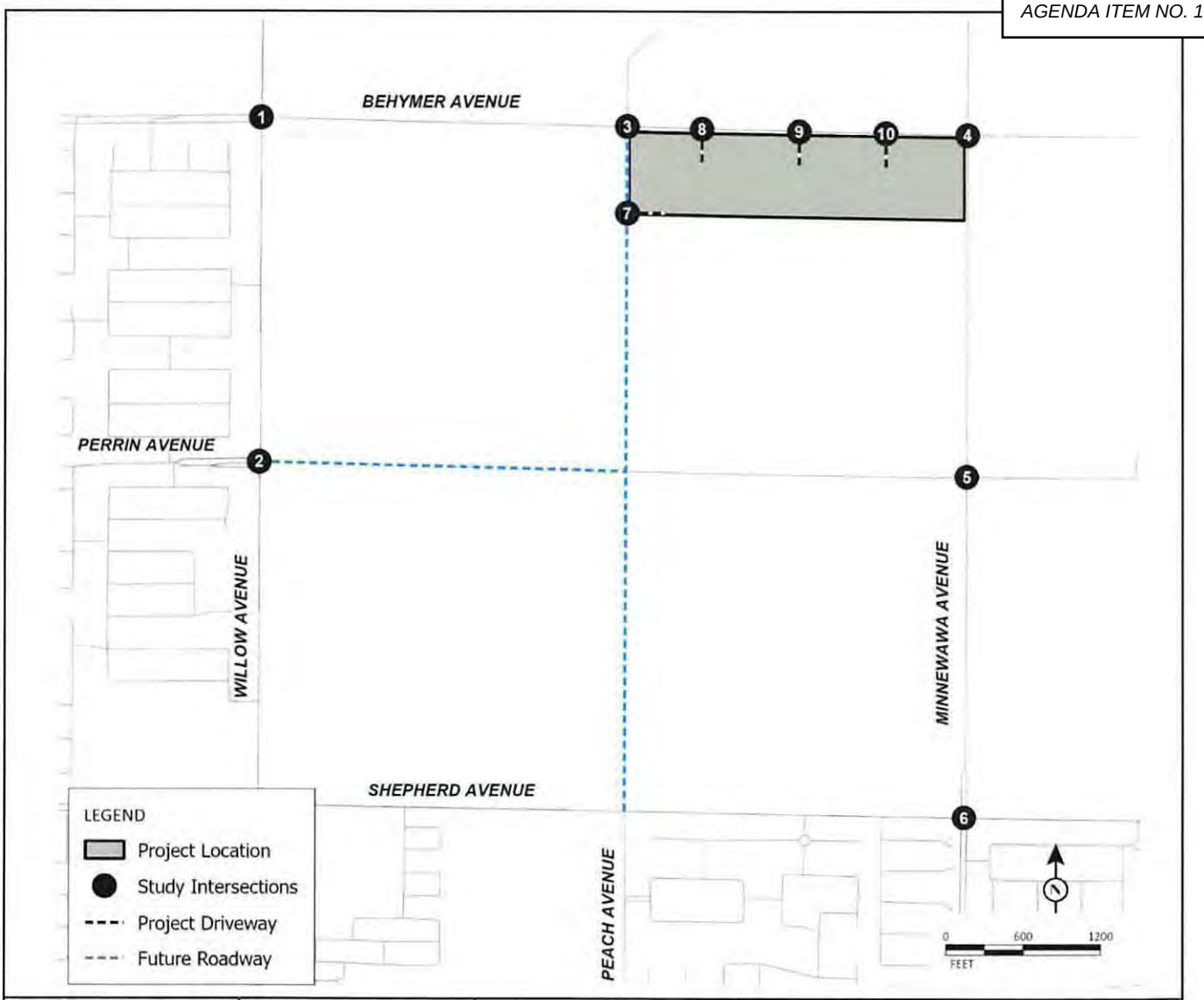

FIGURE 7-1

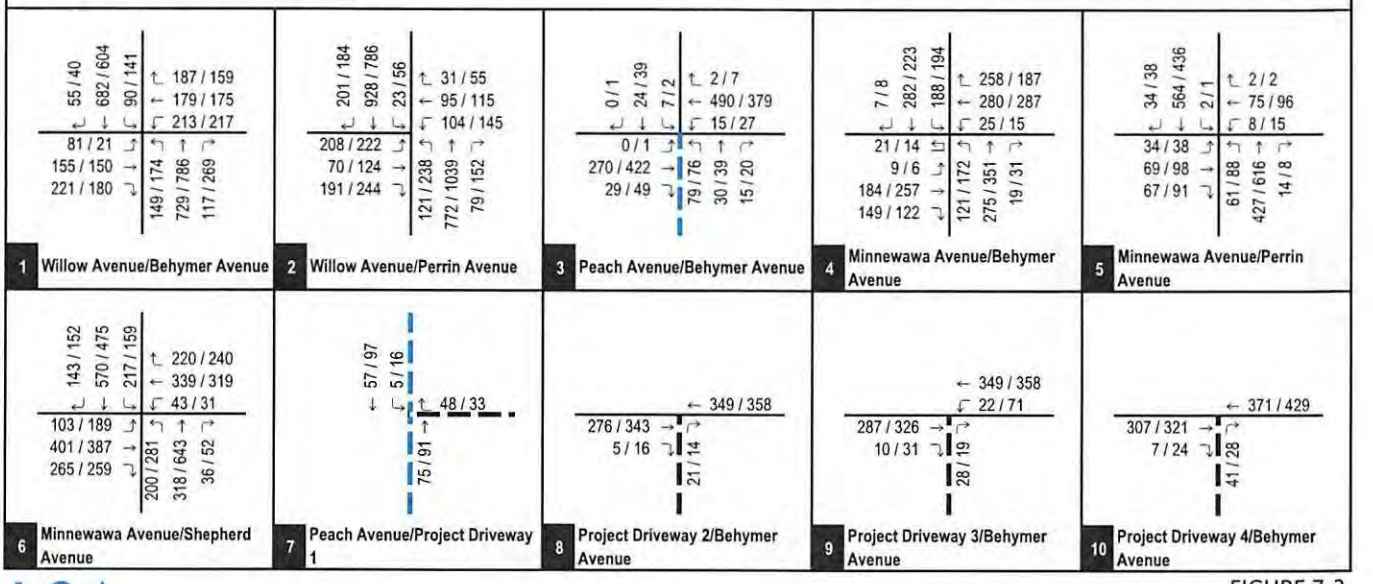
LSA

XXX / YYY
AM / PM Peak Hour Traffic Volumes

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Existing Plus Project Peak Hour Traffic Volumes




LSA

FIGURE 7-2

XXXX / YYYY
AM / PM Peak Hour Traffic Volumes

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Near-Term (2028) Plus Project Peak Hour Traffic Volumes

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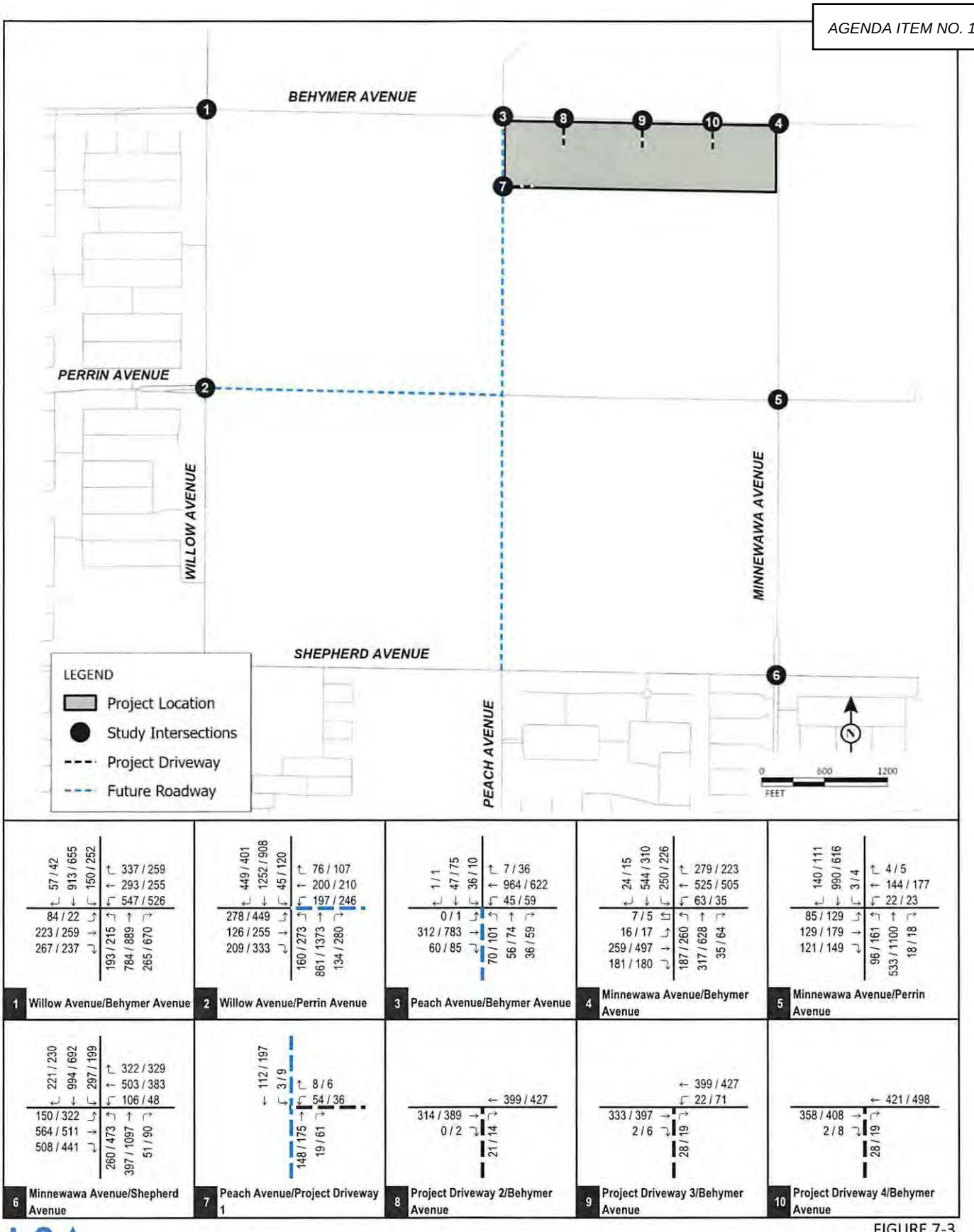


FIGURE 7-3

LSA

XXXX / YYYY

AM / PM Peak Hour Traffic Volumes

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Cumulative (2046) Plus Project Peak Hour Traffic Volumes

# 8.0 INTERSECTION LEVELS OF SERVICE

## 8.1 EXISTING LEVELS OF SERVICE

An intersection LOS analysis was conducted for existing conditions using the methodologies previously discussed. Existing signal timing sheets were obtained from the City for all signalized analysis intersections. The signal timing sheets are included in Appendix C. It should be noted that the existing signal timings were utilized to analyze traffic operations under near-term and cumulative (2046) scenarios as a conservative approach. Table 8.A summarizes the results of this analysis and shows that the following intersection operates at an unsatisfactory LOS under existing conditions:

- Minnewawa Avenue/Behymer Avenue (a.m. and p.m. peak hours)

All other study intersections operate at a satisfactory LOS under existing conditions.

## 8.2 EXISTING PLUS PROJECT LEVELS OF SERVICE

Previously referenced Figure 4-2 illustrates existing plus project study area intersection geometrics and traffic control. Analysis of the existing plus project scenario is provided to identify direct project-related operational deficiency if the project were to be built and in operation today. This scenario eliminates the effects of ambient growth and other approved/pending projects and deals specifically with operational deficiencies only due to the project traffic.

An intersection LOS analysis was conducted for existing plus project conditions using the methodologies previously discussed. Table 8.A summarizes the results of this analysis and shows that the following intersection is forecasted to operate at an unsatisfactory LOS under existing plus project conditions:

- Minnewawa Avenue/Behymer Avenue (a.m. and p.m. peak hours)

All other study intersections are forecasted to operate at a satisfactory LOS under existing plus project conditions.

It should be noted that this intersection is currently operating at a deficient LOS under existing conditions. As such, the project will be adding to the existing deficiencies at this intersection.

## 8.3 NEAR-TERM (2028) PLUS PROJECT LEVELS OF SERVICE

An intersection LOS analysis was conducted for near-term plus project conditions using the methodologies previously discussed. Table 8.B summarizes the results of this analysis and shows that the following intersections are forecasted to operate at an unsatisfactory LOS under near-term plus project conditions:

- Peach Avenue/Behymer Avenue (p.m. peak hour only)
- Minnewawa Avenue/Behymer Avenue (a.m. and p.m. peak hours)

- Minnewawa Avenue/Perrin Avenue (a.m. and p.m. peak hours)

Based on the operational deficiency criteria stated in Section 3.2 of this TIA, the project is forecasted to create an operational deficiency at these intersections. All other study intersections are forecasted to operate at a satisfactory LOS under near-term plus project conditions.

## 8.4 CUMULATIVE (2046) WITHOUT PROJECT LEVELS OF SERVICE

An intersection LOS analysis was conducted for cumulative without project conditions using the methodologies previously discussed. Table 8.C summarizes the results of this analysis and shows that the following intersections are forecasted to operate at an unsatisfactory LOS under cumulative without project conditions:

- Willow Avenue/Behymer Avenue (a.m. and p.m. peak hours)
- Willow Avenue/Perrin Avenue (p.m. peak hour only)
- Peach Avenue/Behymer Avenue (a.m. and p.m. peak hours)
- Minnewawa Avenue/ Behymer Avenue (a.m. peak hour only)
- Minnewawa Avenue/Perrin Avenue (a.m. and p.m. peak hours)
- Minnewawa Avenue/Shepherd Avenue (a.m. and p.m. peak hours)

All other study intersections are forecasted to operate at a satisfactory LOS under cumulative (2046) without project conditions.

## 8.5 CUMULATIVE (2046) PLUS PROJECT LEVELS OF SERVICE

An intersection LOS analysis was conducted for cumulative plus project conditions using the methodologies previously discussed. Table 8.C summarizes the results of this analysis and shows that the following intersections are forecasted to operate at an unsatisfactory LOS under cumulative plus project conditions:

- Willow Avenue/Behymer Avenue (a.m. and p.m. peak hours)
- Willow Avenue/Perrin Avenue (p.m. peak hour only)
- Peach Avenue/Behymer Avenue (a.m. and p.m. peak hours)
- Minnewawa Avenue/ Behymer Avenue (a.m. peak hour only)
- Minnewawa Avenue/Perrin Avenue (a.m. and p.m. peak hours)
- Minnewawa Avenue/Shepherd Avenue (a.m. and p.m. peak hours)

Based on the operational deficiency criteria stated in Section 3.2 of this TIA, the project is forecasted to create an operational deficiency at these intersections. All other study intersections are forecasted to operate at a satisfactory LOS under cumulative plus project conditions.

It should be noted that all these 6 intersections are forecast to operate at a deficient LOS under cumulative (2046) without project conditions. As such, the project will be adding to the forecasted deficiencies at these intersections.

Detailed intersection LOS worksheets are included in Appendix E.

## 8.6 LIST OF CHAPTER 8.0 TABLES


- Table 8.A: Existing Intersection Levels of Service
- Table 8.B: Near-Term (2028) Intersection Levels of Service
- Table 8.C: Cumulative (2046) Intersection Levels of Service

LSA

**Table 8.A - Existing Intersection Levels of Service**

| Intersection | Jurisdiction | LOS Standard | Without Project | | | | | Plus Project | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Control | A.M. Peak Hour Delay (sec.) | A.M. Peak Hour LOS | P.M. Peak Hour Delay (sec.) | P.M. Peak Hour LOS | Control | A.M. Peak Hour Delay (sec.) | A.M. Peak Hour LOS | P.M. Peak Hour Delay (sec.) | P.M. Peak Hour LOS |
| 1 . Willow Avenue/Behymer Avenue | Clovis/Fresno | D | Signal | 24.8 | C | 25.0 | C | Signal | 25.7 | C | 25.8 | C |
| 2 . Willow Avenue/Perrin Avenue | Clovis/Fresno | D | Signal | 12.1 | B | 12.9 | B | Signal | 12.3 | B | 13.1 | B |
| 3 . Peach Avenue/Behymer Avenue | Clovis | D | OWSC | 15.2 | C | 9.9 | A | TWSC | 18.7 | C | 16.0 | C |
| 4 . Minnewawa Avenue/Behymer Avenue | Clovis | D | AWSC | 59.5 | F * | 56.1 | F * | AWSC | 89.2 | F * | 91.1 | F * |
| 5 . Minnewawa Avenue/Perrin Avenue | Clovis | D | TWSC | 14.4 | B | 13.6 | B | TWSC | 15.8 | C | 15.3 | C |
| 6 . Minnewawa Avenue/Shepherd Avenue | Clovis | D | Signal | 21.2 | C | 20.0 | B | Signal | 21.9 | C | 20.8 | C |
| 7 . Peach Avenue/Project Driveway 1 | Clovis | D | - | *Future Intersection* | | *Future Intersection* | | OWSC | *No Conflicting Movements* | | *No Conflicting Movements* | |
| 8 . Project Driveway 2/Behymer Avenue | Clovis | D | - | *Future Intersection* | | *Future Intersection* | | TWSC | 9.8 | A | 10.1 | B |
| 9 . Project Driveway 3/Behymer Avenue | Clovis | D | - | *Future Intersection* | | *Future Intersection* | | TWSC | 10.0 | A | 10.1 | B |
| 10 . Project Driveway 4/Behymer Avenue | Clovis | D | - | *Future Intersection* | | *Future Intersection* | | TWSC | 10.2 | B | 10.1 | B |

**Notes:**

AWSC= All-Way Stop Control; OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement)

* Exceeds LOS Standard

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LSA

## Table 8.B - Near-Term (2028) Intersection Levels of Service

| Intersection | Jurisdiction | LOS Standard | Plus Project | | | | |
|---|---|---|---|---|---|---|---|
| | | | Control | A.M. Peak Hour Delay (sec.) | A.M. Peak Hour LOS | P.M. Peak Hour Delay (sec.) | P.M. Peak Hour LOS |
| 1 . Willow Avenue/Behymer Avenue | Clovis/Fresno | D | Signal | 32.6 | C | 33.4 | C |
| 2 . Willow Avenue/Perrin Avenue | Clovis/Fresno | D | Signal | 25.2 | C | 34.3 | C |
| 3 . Peach Avenue/Behymer Avenue | Clovis | D | TWSC | 30.8 | D | 42.9 | E * |
| 4 . Minnewawa Avenue/Behymer Avenue | Clovis | D | AWSC | 170.6 | F * | >200 | F * |
| 5 . Minnewawa Avenue/Perrin Avenue | Clovis | D | TWSC | 198.4 | F * | >200 | F * |
| 6 . Minnewawa Avenue/Shepherd Avenue | Clovis | D | Signal | 48.3 | D | 52.6 | D |
| 7 . Peach Avenue/Project Driveway 1 | Clovis | D | OWSC | 8.9 | A | 8.9 | A |
| 8 . Project Driveway 2/Behymer Avenue | Clovis | D | TWSC | 10.0 | A | 10.5 | B |
| 9 . Project Driveway 3/Behymer Avenue | Clovis | D | TWSC | 10.2 | B | 10.5 | B |
| 10 . Project Driveway 4/Behymer Avenue | Clovis | D | TWSC | 10.5 | B | 10.5 | B |

**Notes:**

AWSC= All-Way Stop Control; OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

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LSA

## Table 8.C - Cumulative (2046) Intersection Levels of Service

| Intersection | Jurisdiction | LOS Standard | Without Project | | | | | | Plus Project | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | A.M. Peak Hour | | | P.M. Peak Hour | | | A.M. Peak Hour | | | P.M. Peak Hour | |
| | | | Control | Delay (sec.) | LOS | | Delay (sec.) | LOS | Control | Delay (sec.) | LOS | | Delay (sec.) | LOS |
| 1 . Willow Avenue/Behymer Avenue | Clovis/Fresno | D | Signal | 137.3 | F | * | 160.1 | F | * | Signal | 139.2 | F | * | 158.6 | F | * |
| 2 . Willow Avenue/Perrin Avenue | Clovis/Fresno | D | Signal | 34.4 | C | | 57.5 | E | * | Signal | 35.3 | D | | 57.9 | E | * |
| 3 . Peach Avenue/Behymer Avenue | Clovis | D | OWSC | >200 | F | * | >200 | F | * | TWSC | >200 | F | * | >200 | F | * |
| 4 . Minnewawa Avenue/Behymer Avenue | Clovis | D | AWSC | >200 | F | * | >200 | F | * | AWSC | >200 | F | * | >200 | F | * |
| 5 . Minnewawa Avenue/Perrin Avenue | Clovis | D | TWSC | >200 | F | * | >200 | F | * | TWSC | >200 | F | * | >200 | F | * |
| 6 . Minnewawa Avenue/Shepherd Avenue | Clovis | D | Signal | 175.8 | F | * | >200 | F | * | Signal | 183.7 | F | * | >200 | F | * |
| 7 . Peach Avenue/Project Driveway 1 | Clovis | D | - | *Future Intersection* | | | *Future Intersection* | | | OWSC | 10.6 | B | | 11.7 | B | |
| 8 . Project Driveway 2/Behymer Avenue | Clovis | D | - | *Future Intersection* | | | *Future Intersection* | | | TWSC | 10.3 | B | | 10.9 | B | |
| 9 . Project Driveway 3/Behymer Avenue | Clovis | D | - | *Future Intersection* | | | *Future Intersection* | | | TWSC | 10.5 | B | | 11.0 | B | |
| 10 . Project Driveway 4/Behymer Avenue | Clovis | D | - | *Future Intersection* | | | *Future Intersection* | | | TWSC | 10.7 | B | | 11.1 | B | |

Notes:

AWSC= All-Way Stop Control; OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

# 9.0 SIGNAL WARRANT ANALYSIS

As recommended during the scoping agreement process, a signal warrant analysis was conducted at study intersections where installing a signal could be an appropriate and potential operational improvement measure. A Peak Hour Warrant (Warrant 3) was conducted for such locations. Peak hour approach volumes for the study intersections were examined to determine whether signalization is warranted per the criteria defined in the latest version California supplement of the *Manual on Uniform Traffic Control Devices* (CA-MUTCD). Following is a brief summary of signal warrant analysis:

## 9.1 PEACH AVENUE/BEHYMER AVENUE

Figures 9-1 and Figure 9-2 illustrate the Warrant 3 (Peak Hour) for this intersection under near-term and cumulative year conditions, respectively. As shown in these figures, this intersection does not meet the signal warrant under near-term conditions. However, it does meet the signal warrant under cumulative conditions. As such, a signal is warranted at this location.

## 9.2 MINNEWAWA AVENUE/BEHYMER AVENUE

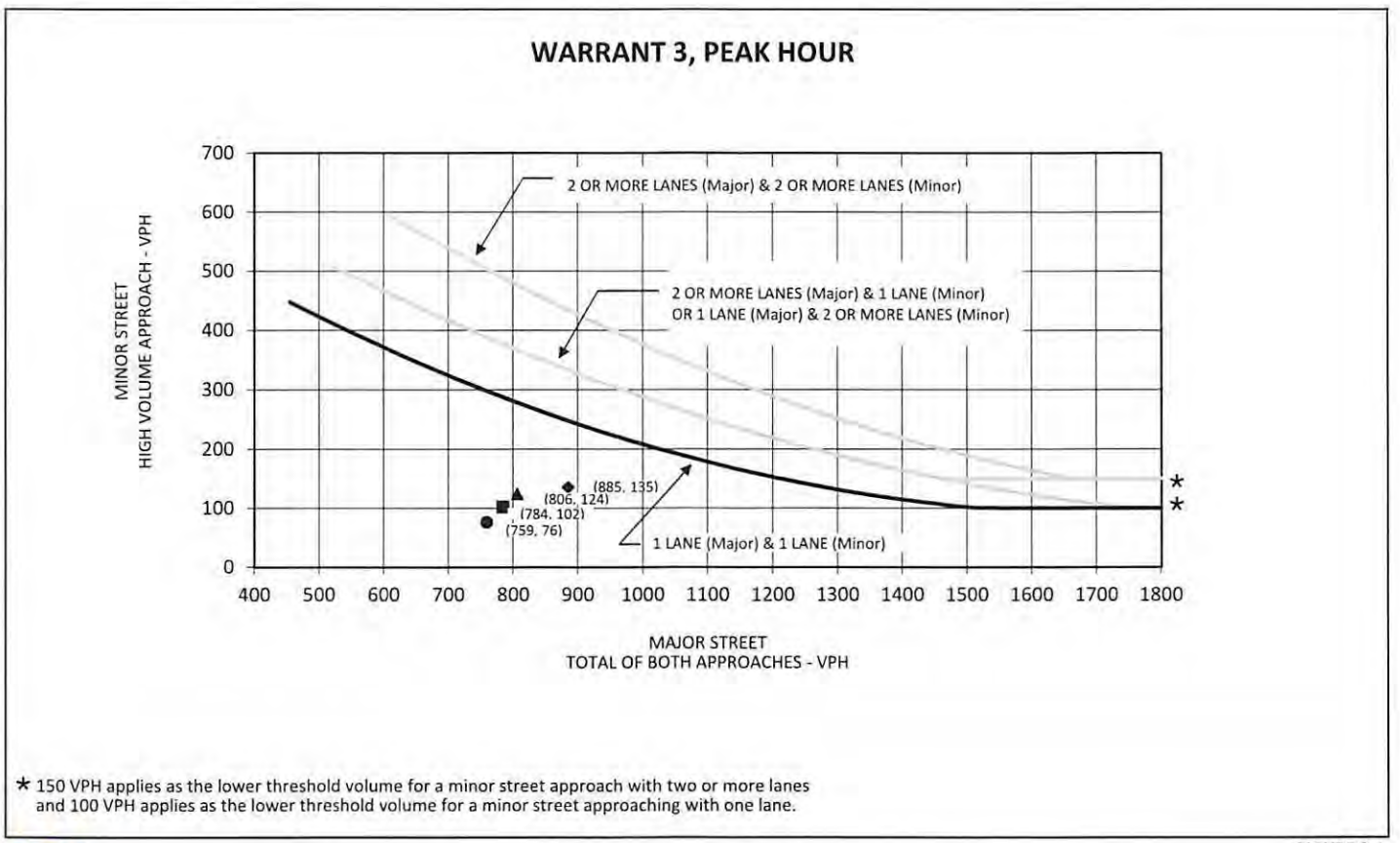
Figures 9-3, Figure 9-4, and Figure 9-5 illustrate the Warrant 3 (Peak Hour) for this intersection under existing, near-term and cumulative conditions, respectively. As shown in these figures, this intersection does meet the signal warrant under existing, near-term and cumulative conditions. As such, a signal is warranted at this location.

## 9.3 MINNEWAWA AVENUE/PERRIN AVENUE

Figures 9-6 and Figure 9-7 illustrate the Warrant 3 (Peak Hour) for this intersection under near-term and cumulative year conditions, respectively. As shown in these figures, this intersection does meet the signal warrant under near-term and cumulative year conditions. As such, a signal is warranted at this location.

## 9.4 LIST OF CHAPTER 9.0 FIGURES

- Figure 9-1: Warrant 3: Peak Hour – Peach Avenue/Behymer Avenue – Near-Term Conditions
- Figure 9-2: Warrant 3: Peak Hour – Peach Avenue/Behymer Avenue – Cumulative Conditions
- Figure 9-3: Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Existing Conditions
- Figure 9-4: Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Near-Term Conditions
- Figure 9-5: Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Cumulative Conditions
- Figure 9-6: Warrant 3: Peak Hour – Minnewawa Avenue/Perrin Avenue – Near-Term Conditions
- Figure 9-7: Warrant 3: Peak Hour – Minnewawa Avenue/Perrin Avenue – Cumulative Conditions




* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

FIGURE 9-1

LSA

● No Project AM Peak Hour ▲ With Project AM Peak Hour

■ No Project PM Peak Hour ◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Warrant 3: Peak Hour – Peach Avenue/Behymer Avenue – Near-Term Conditions

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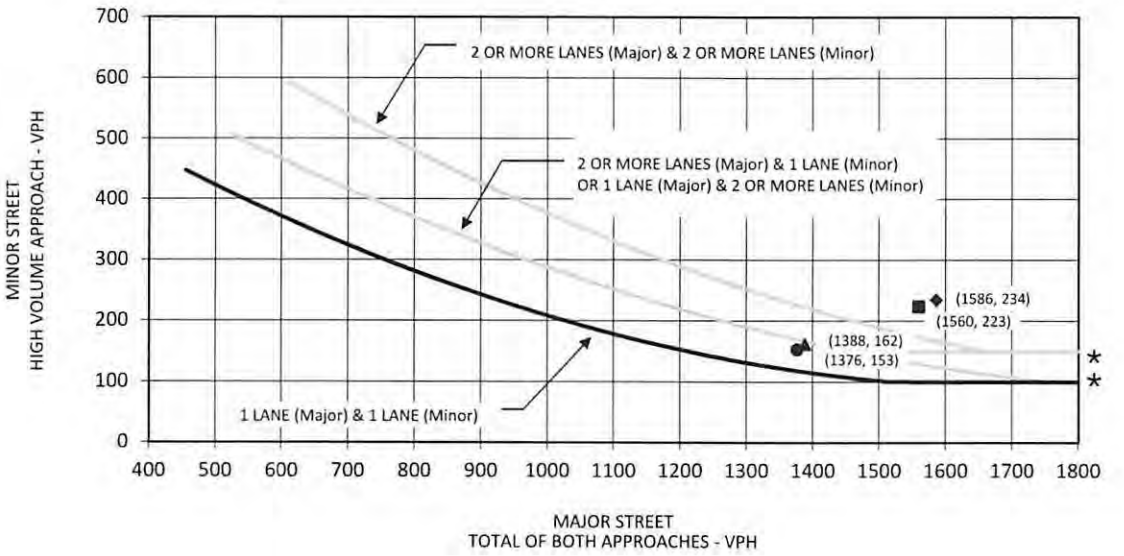
## WARRANT 3, PEAK HOUR




* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

LSA

FIGURE 9-2

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Warrant 3: Peak Hour – Peach Avenue/Behymer Avenue – Cumulative Conditions

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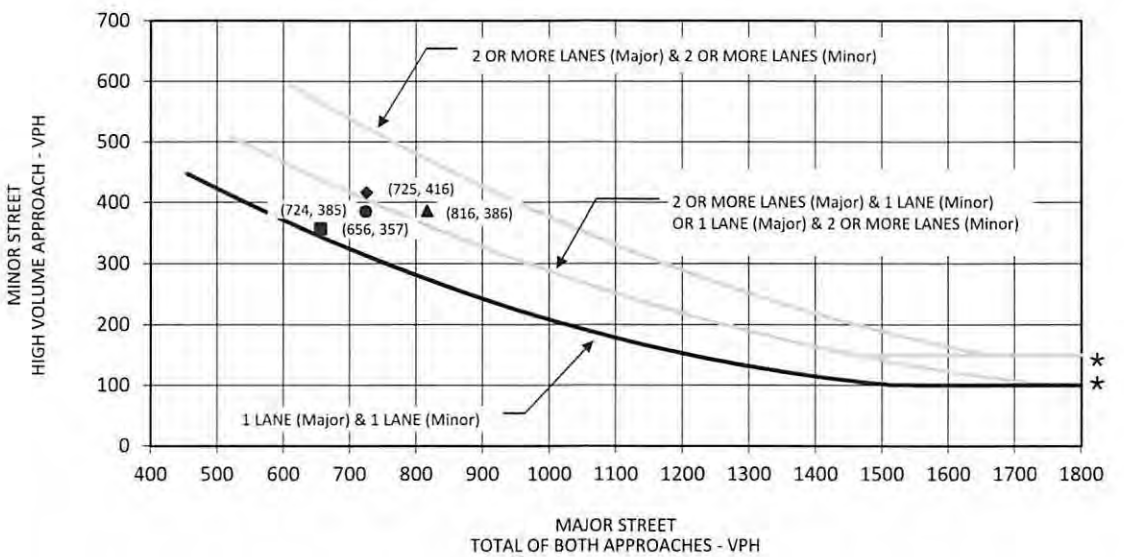
## WARRANT 3, PEAK HOUR




* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

LSA

FIGURE 9-3

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Existing Conditions

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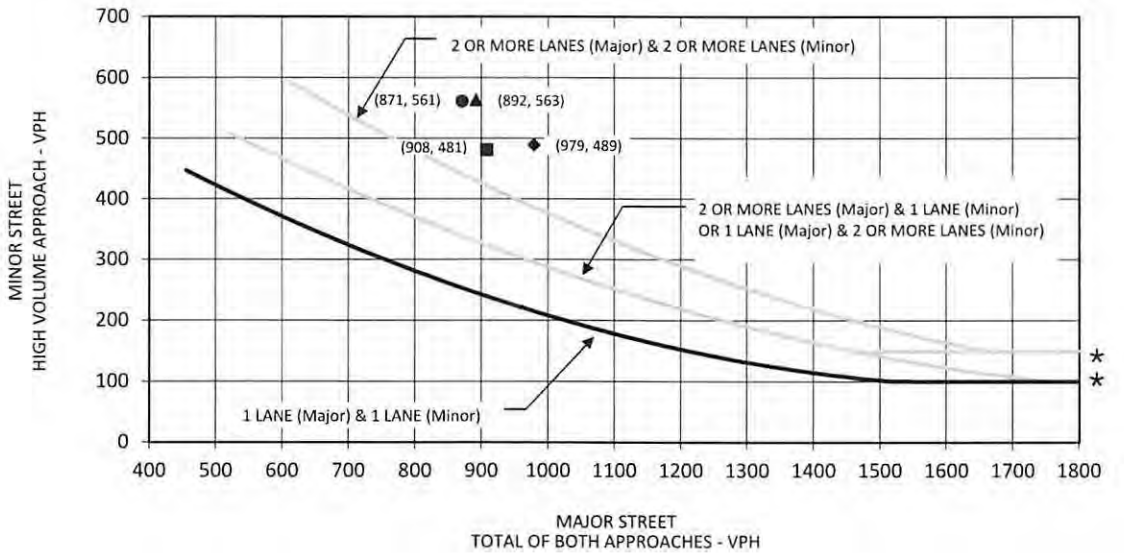
## WARRANT 3, PEAK HOUR




* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

FIGURE 9-4

LSA

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Near-Term Conditions

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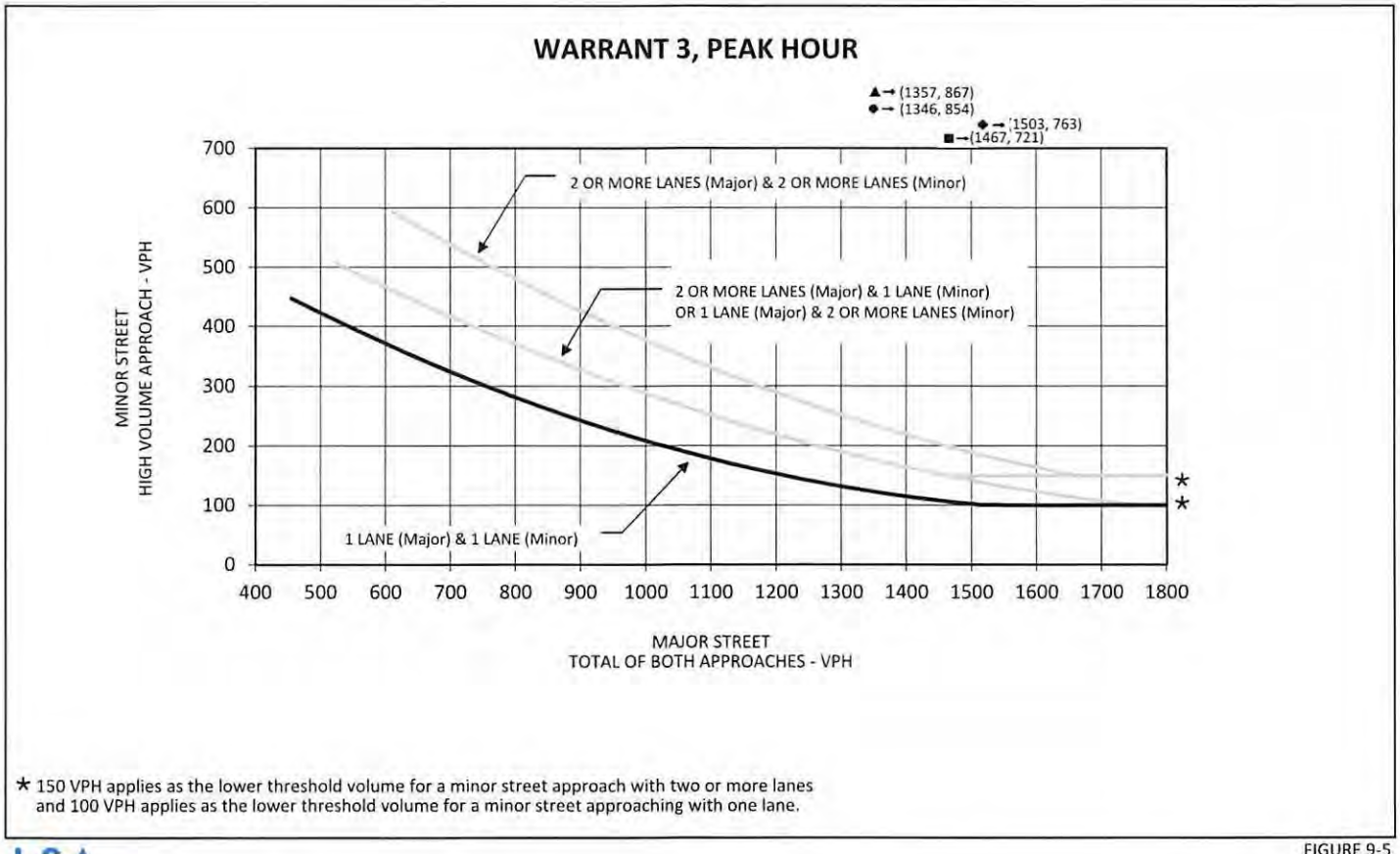


* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

LSA

FIGURE 9-5

● No Project AM Peak Hour ▲ With Project AM Peak Hour

■ No Project PM Peak Hour ◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Cumulative Conditions

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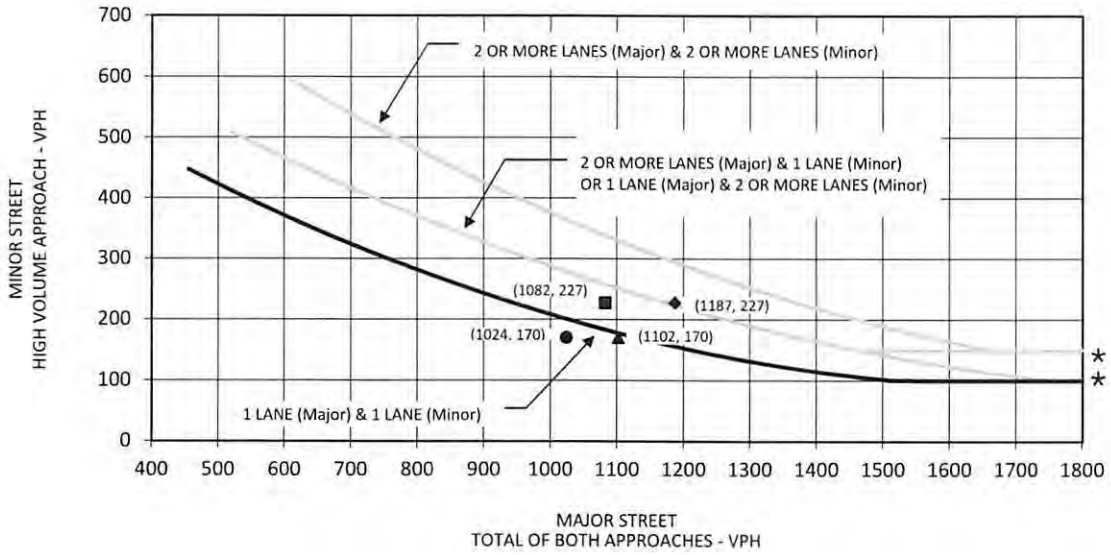
## WARRANT 3, PEAK HOUR




* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

LSA

FIGURE 9-6

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Warrant 3: Peak Hour – Minnewawa Avenue/Perrin Avenue – Near-Term Conditions

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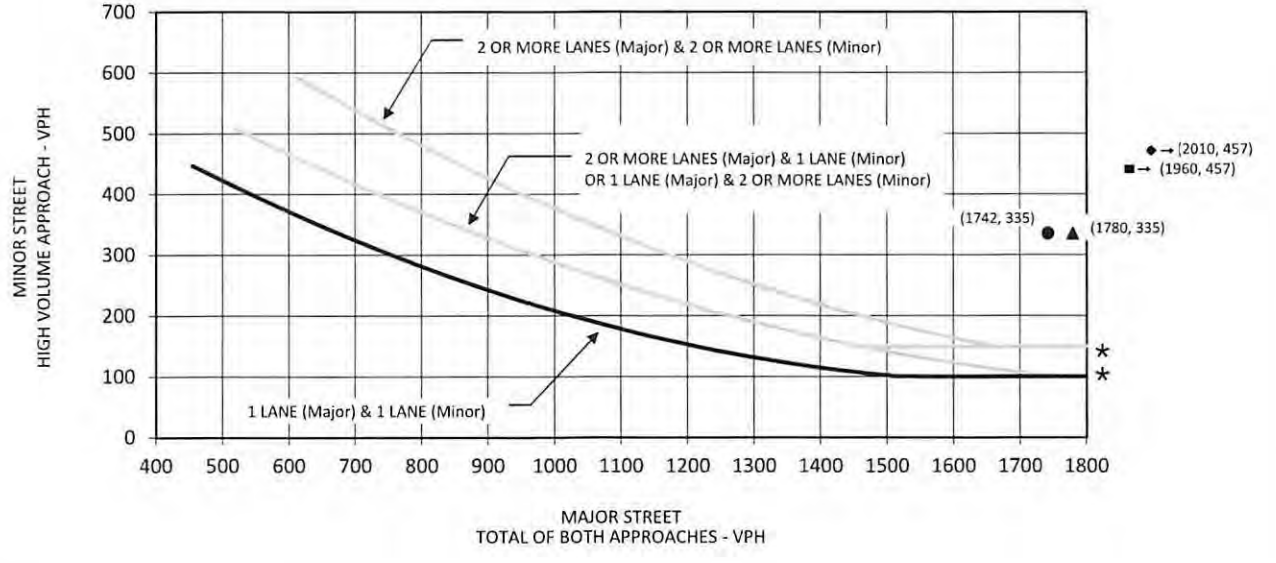
## WARRANT 3, PEAK HOUR




* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

FIGURE 9-7

LSA

● No Project AM Peak Hour ▲ With Project AM Peak Hour

■ No Project PM Peak Hour ◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Warrant 3: Peak Hour – Minnewawa Avenue/Perrin Avenue – Cumulative Conditions

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# 10.0 CIRCULATION IMPROVEMENTS AND FUNDING SOURCES

## 10.1 RECOMMENDED IMPROVEMENTS

Improvements have been recommended at study intersections where an operational deficiency has been identified based on the results of the LOS analysis. Table 10.A summarizes the recommended improvements for study intersections for all analysis scenarios. Tables 10.B, 10.C, and 10.D summarize the post-improvement intersection LOS under existing, near-term, and cumulative conditions, respectively. Detailed LOS worksheets are included in Appendix E. Figures 10-1, 10-2, and 10-3 illustrate the with recommended improvements intersection geometrics and traffic control under existing, near-term, and cumulative conditions, respectively.

It should be noted that peak-hour signal warrant analyses have been conducted for the intersections where a signal has been proposed. As such, a signal was only recommended as an improvement if it meets the peak-hour signal warrant.

## 10.2 FUNDING SOURCES AND MECHANISMS

Where there is a funding mechanism (fee program) for the recommended improvements, payment into the fee program would be considered sufficient project obligation to alleviate project-related operational deficiencies. At study locations where the addition of project traffic creates an operational deficiency (existing plus project conditions) and there is no funding mechanism in place, the project will be responsible for the implementation of the improvement. At locations where the project adds to or creates a forecast deficiency and there is no funding mechanism in place, the project is responsible for its fair-share payment.

### 10.2.1 City of Clovis Development Impact Fee Program and Operations

Several recommended improvements are part of City of Clovis operations or Clovis Development Impact Fee (DIF) Program. As such, improvements that proposes optimizing the signal timings or modifications of existing signal operations only would be implemented by City of Clovis operations. Additionally, improvements that are included in the City's DIF program, the project will be paying into this fee program for these improvements. The City currently have three mechanisms within its DIF program which will be responsible for these improvements. Following is a summary of these three mechanisms within the City's DIF program:

- **Traffic Signal Fee:** The Traffic Signal fee pays for the construction and financing of those certain planned traffic signals at the intersection of Major Streets and the interconnecting fiber optic system.
- **Outside Travel Lane Fee:** The Outside Travel Lane fee pays for the construction and financing of those certain planned travel lanes of a Major Street that are located between the frontage improvements and the Center Travel Lanes.
- **Center Travel Lane Fee:** The Center Travel Lane fee pays for the construction and financing of those certain planned travel lanes of a Major Street that are located within the median area. The fee also includes the adjacent travel lane on roads with 4 lanes or less, or the 2 adjacent lanes on 6-lane roads.

### 10.2.2 Fresno County Regional Transportation Mitigation Fee Program

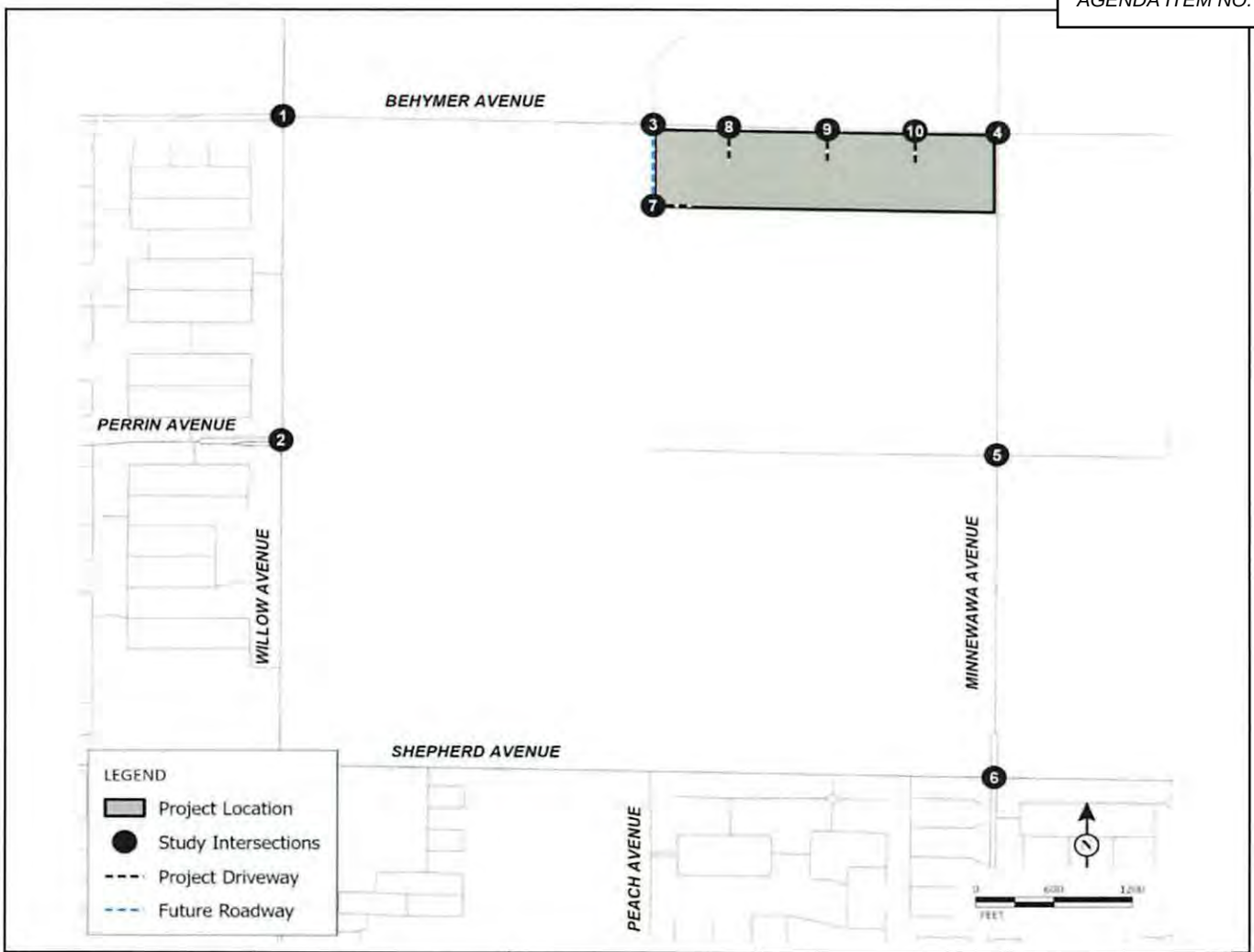
The Fresno County Regional Transportation Mitigation Fee (RTMF) was created to fulfill one of the terms of the Measure 'C' Extension ballot measure, which was approved by Fresno County voters in 2006. The RTMF became effective on January 1, 2010. The RTMF is "intended to ensure that future development contributes to its fair share towards the cost of infrastructure to mitigate the cumulative, indirect regional transportation impacts of new growth in a manner consistent with the provisions of the State of California Mitigation Fee Act". The fees help fund improvements needed to maintain the target level of service in the face of higher traffic volumes brought on by new developments. As such, any new development within Fresno County, including developments within the City are required to pay the RTMF fee based on the adopted fee structure. The project will also be paying the RTMF fee which will help fund improvements and maintenance of the regional roadway network, specifically improvements under Caltrans jurisdiction. However, within the study area none of the intersections are under Caltrans jurisdiction.

### 10.2.3 Project Fair Share

In the absence of a fee program where the project has an impact on the roadway network, the project will pay its respective fair share for the proposed improvements. The project's fair share has been calculated based on project traffic as a percentage of total growth of existing traffic plus project volumes. However, none of the improvements require a fair share payment. Table 10.E summarizes the recommended improvement for the deficient intersections and the corresponding funding mechanism (Clovis Operations and Development Impact Fee).

## 10.3 LIST OF CHAPTER 10.0 FIGURES AND TABLES

- Figure 10-1: Existing Plus Project with Improvements Study Intersection Geometrics and Traffic Control
- Figure 10-2: Near-Term (2028) Plus Project with Improvements Study Intersection Geometrics and Traffic Control
- Figure 10-3: Cumulative (2046) Plus Project with Improvements Study Intersection Geometrics and Traffic Control
- Table 10.A: Recommended Improvements for Intersections
- Table 10.B: Existing Plus Project with Recommended Improvements Intersection Levels of Service
- Table 10.C: Near-Term (2028) Plus Project with Recommended Improvements Intersection Levels of Service
- Table 10.D: Cumulative (2046) Plus Project with Improvements with Recommended Improvements Intersection Levels of Service
- Table 10.E: Intersection Improvement Funding Mechanism



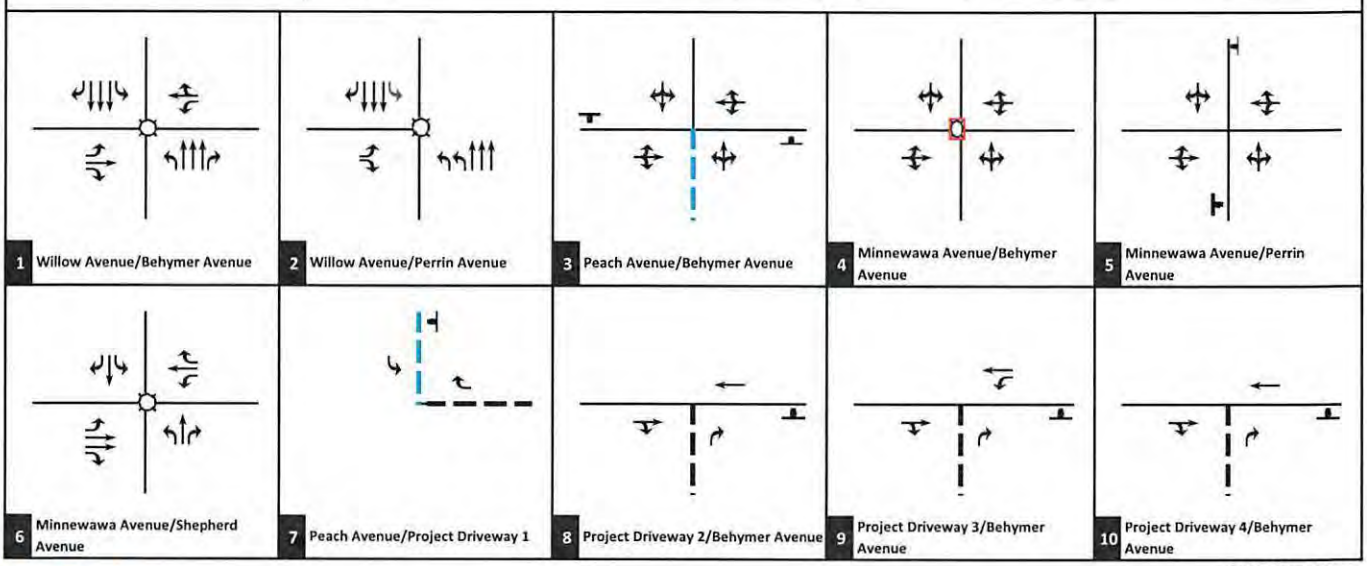




FIGURE 10-1

LSA

Legend

Signal
Stop Sign
Project Driveway
Future Driveway
U-Turn Movement
Install Traffic Signal
Recommended Improvements

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Existing Plus Project with Improvements Study Intersection Geometrics and Traffic Control

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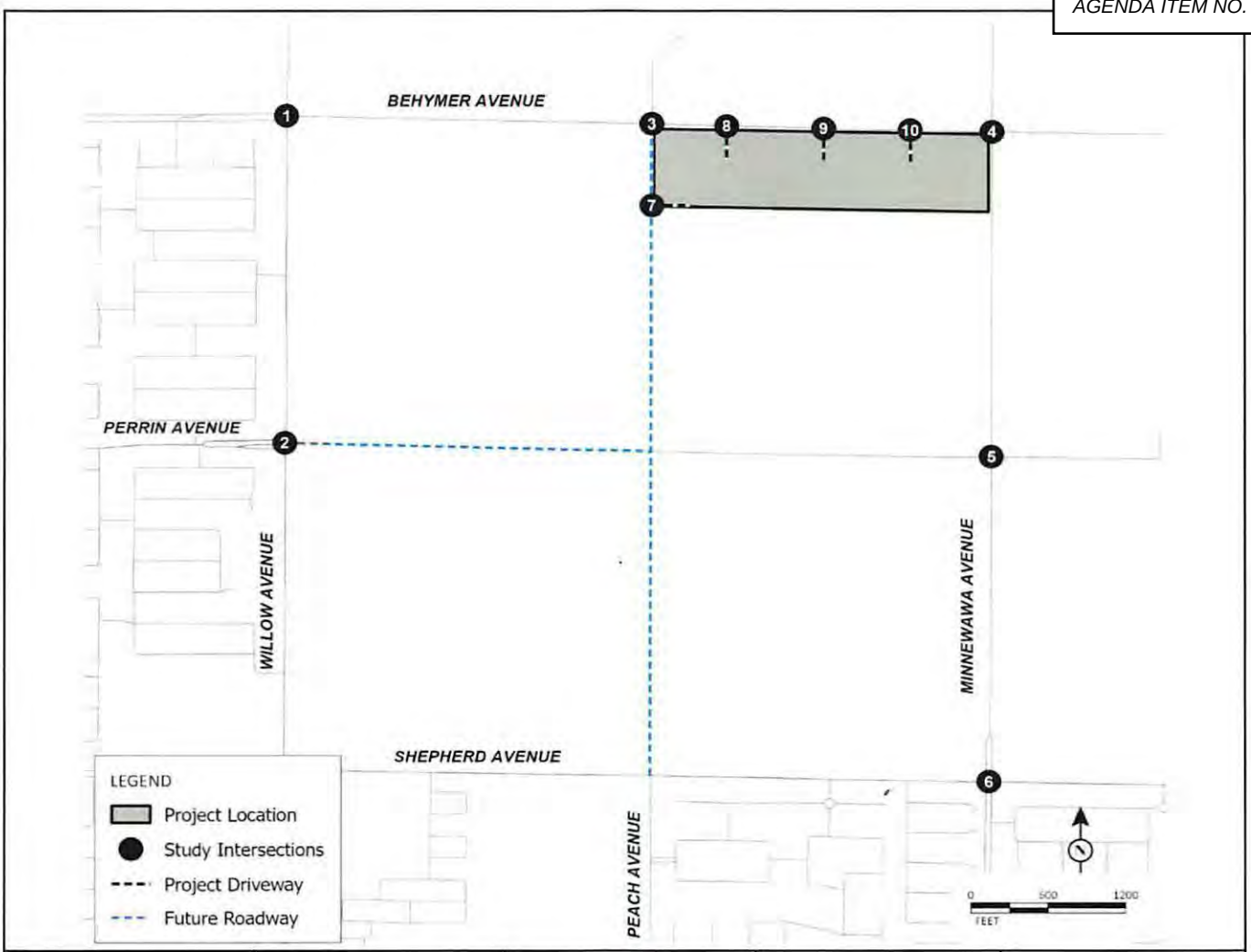


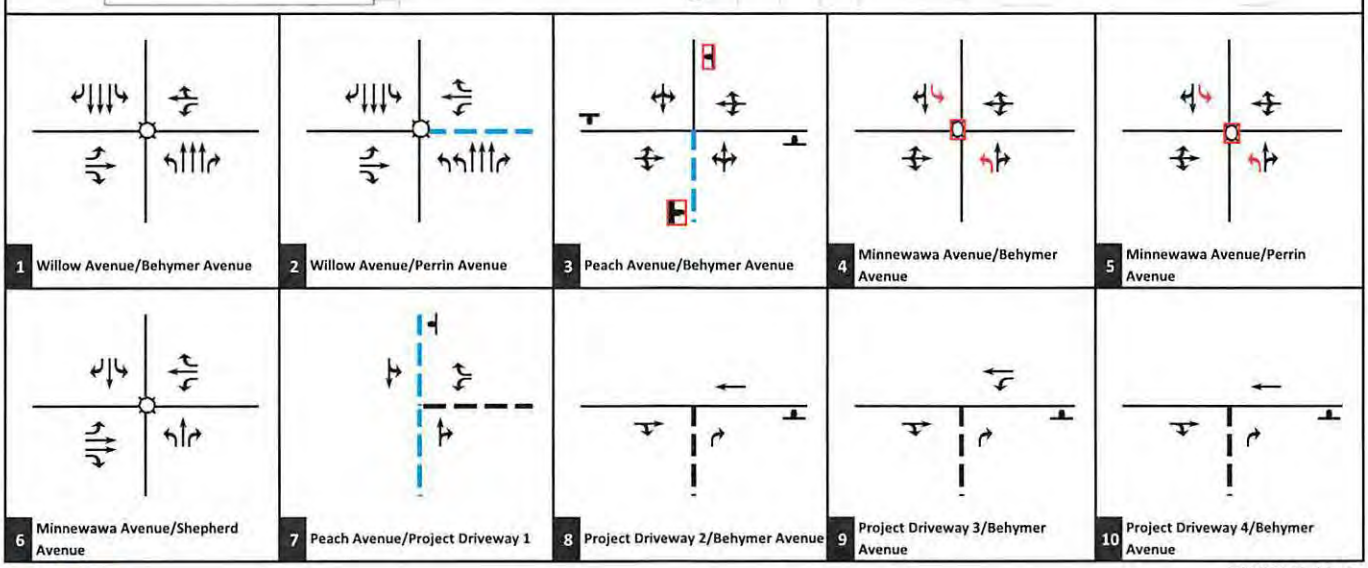




FIGURE 10-2

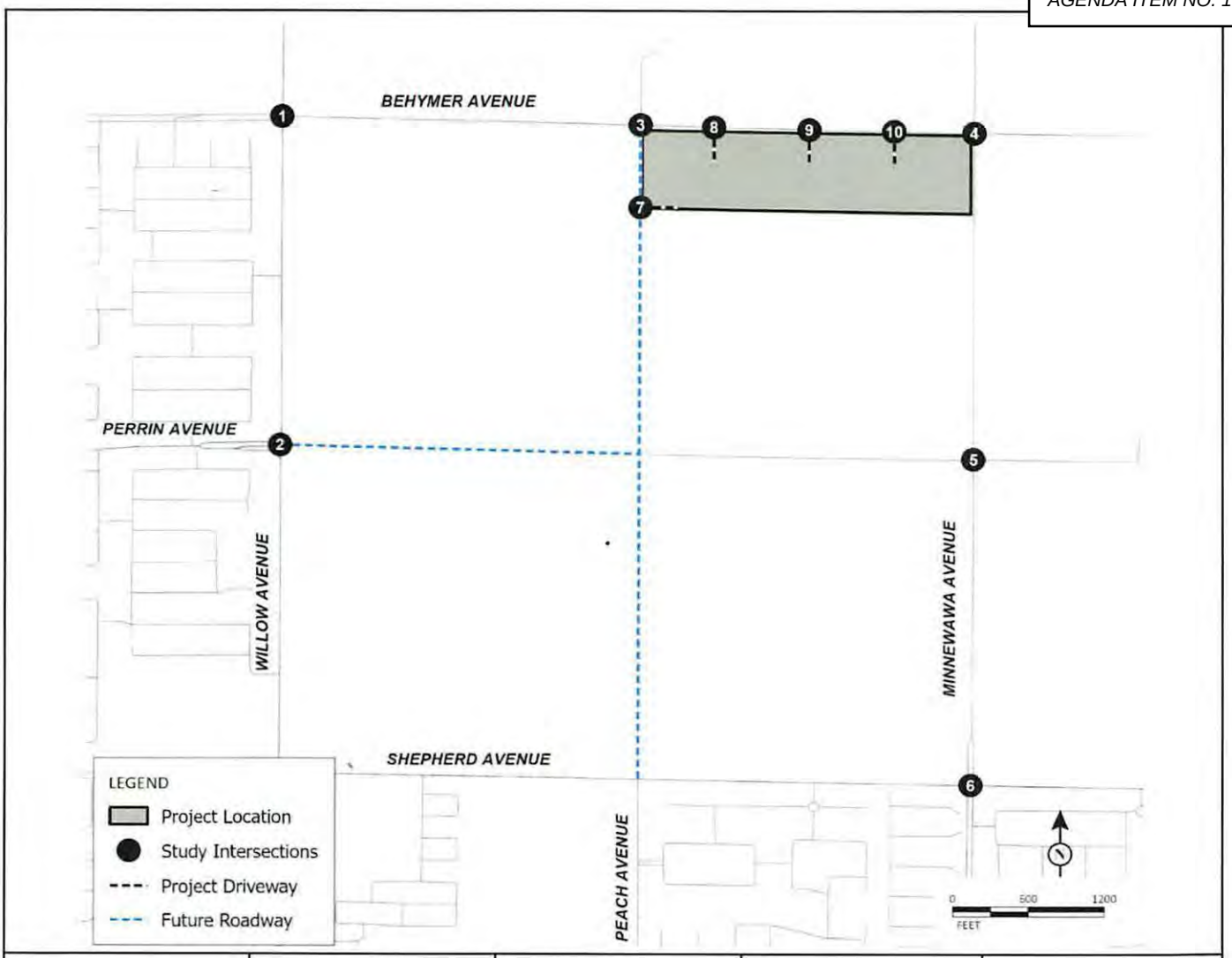
LSA

Legend

Signal
Stop Sign
Project Driveway
Future Driveway
Optimize Signal Timing
Install Traffic Signal
Recommended Improvements

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Near -Term (2028) Plus Project with Improvements Study Intersection Geometrics and Traffic Control



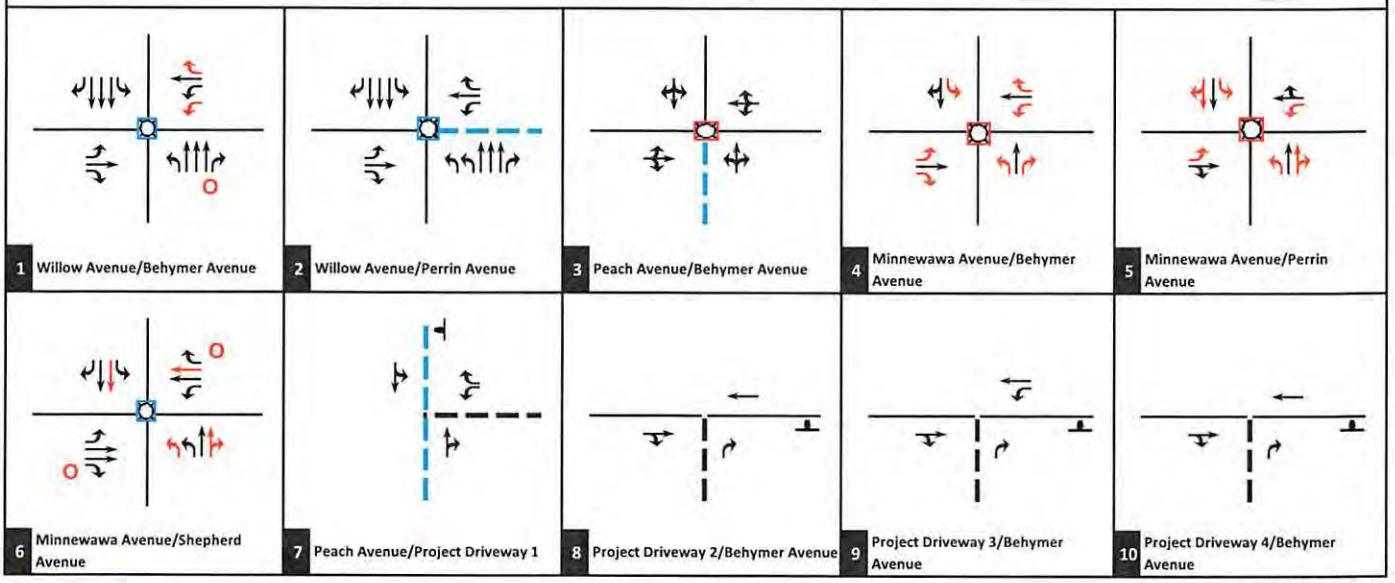




FIGURE 10-3

LSA

Legend

Signal
Stop Sign
Project Driveway
Future Driveway
Optimize Signal Timing
Install Traffic Signal
Recommended Improvements

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Cumulative (2046) Plus Project with Improvements Study Intersection Geometrics and Traffic Control

P:\20231181 De Young Annexation\g30_Geo_Cumul_MIT.xlsx\Figure (10/9/2024)

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**Table 10.A - Recommended Improvements for Intersections**

| Intersection | Jurisdiction | Existing Plus Project Improvements | Near-Term (2028) Plus Project Improvements | Cumulative (2046) Plus Project Improvements |
|---|---|---|---|---|
| | | | | |
| 1 . Willow Avenue/Behymer Avenue | Clovis/Fresno | | | Add WBL, WBR, NBR overlap. Optimize signal timings. |
| 2 . Willow Avenue/Perrin Avenue | Clovis/Fresno | | | Optimize signal timings. |
| 3 . Peach Avenue/Behymer Avenue | Clovis/Fresno | | Convert to four-way stop controlled. | Install a signal. |
| 4 . Minnewawa Avenue/Behymer Avenue | Clovis/Fresno | Install a signal. | Install a signal with N/S protected phasing . Add NBL, SBL. | Install a signal with N/S protected phasing . Add NBL, continuous NBR, SBL, EBL,EBR, WBL, WBR. |
| 5 . Minnewawa Avenue/Perrin Avenue | Clovis/Fresno | | Install a signal with N/S protected phasing . Add NBL, SBL. | Install a signal with protected phasing. Add NBL, NBTR, SBL, SBTR, EBL, WBL. |
| 6 . Minnewawa Avenue/Shepherd Avenue | Clovis/Fresno | | | Restripe NBR to NBTR. Add NBL, SBT,WBT. Add EBR and WBR overlap phasing. Optimize the signal timing. |
| | | | | |

**Notes:**
NB = Northbound, SB = Southbound, EB = Eastbound, WB = Westbound
L = Left, T = Through, R = Right

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**Table 10.B - Existing Plus Project with Recommended Improvements Intersection Levels of Service**

| Intersection | Jurisdiction | LOS Standard | Plus Project Without Improvements | | | | | Plus Project With Improvements | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Control | A.M. Peak Hour Delay (sec.) | A.M. Peak Hour LOS | P.M. Peak Hour Delay (sec.) | P.M. Peak Hour LOS | Control | A.M. Peak Hour Delay (sec.) | A.M. Peak Hour LOS | P.M. Peak Hour Delay (sec.) | P.M. Peak Hour LOS |
| 4 . Minnewawa Avenue/Behymer Avenue | Clovis | D | AWSC | 89.2 | F * | 91.1 | F * | Signal | 9.2 | A | 9.2 | A |

Notes:

OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

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**Table 10.C - Near-Term (2028) Plus Project with Recommended Improvements Intersection Levels of Service**

| Intersection | Jurisdiction | LOS Standard | Plus Project Without Improvements | | | | | Plus Project With Improvements | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | A.M. Peak Hour | | P.M. Peak Hour | | | A.M. Peak Hour | | P.M. Peak Hour | |
| | | | Control | Delay (sec.) | LOS | Delay (sec.) | LOS | Control | Delay (sec.) | LOS | Delay (sec.) | LOS |
| 3 . Peach Avenue/Behymer Avenue | Clovis | D | TWSC | 30.8 | D | 42.9 | E * | AWSC | 17.0 | C | 17.3 | C |
| 4 . Minnewawa Avenue/Behymer Avenue | Clovis | D | AWSC | 170.6 | F * | >200 | F * | Signal | 20.4 | C | 23.2 | C |
| 5 . Minnewawa Avenue/Perrin Avenue | Clovis | D | TWSC | 198.4 | F * | >200 | F * | Signal | 12.5 | B | 13.3 | B |

Notes:

OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

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**Table 10.D - Cumulative (2046) Plus Project with Recommended Improvements Intersection Levels of Service**

| Intersection | Jurisdiction | LOS Standard | Plus Project Without Improvements | | | | | | Plus Project With Improvements | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | A.M. Peak Hour | | | P.M. Peak Hour | | | A.M. Peak Hour | | P.M. Peak Hour | |
| | | | Control | Delay (sec.) | LOS | | Delay (sec.) | LOS | Control | Delay (sec.) | LOS | Delay (sec.) | LOS |
| 1 . Willow Avenue/Behymer Avenue | Clovis/Fresno | D | Signal | 139.2 | F | * | 158.6 | F * | Signal | 42.5 | D | 47.9 | D |
| 2 . Willow Avenue/Perrin Avenue | Clovis/Fresno | D | Signal | 35.3 | D | | 57.9 | E * | Signal | 35.3 | D | 52.6 | D |
| 3 . Peach Avenue/Behymer Avenue | Clovis | D | TWSC | >200 | F | * | >200 | F * | Signal | 9.7 | A | 9.8 | A |
| 4 . Minnewawa Avenue/Behymer Avenue | Clovis | D | AWSC | >200 | F | * | >200 | F * | Signal | 21.4 | C | 44.6 | D |
| 5 . Minnewawa Avenue/Perrin Avenue | Clovis | D | TWSC | >200 | F | * | >200 | F * | Signal | 23.8 | C | 22.0 | C |
| 6 . Minnewawa Avenue/Shepherd Avenue | Clovis | D | Signal | 183.7 | F | * | >200 | F * | Signal | 44.0 | D | 52.5 | D |

**Notes:**

OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

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**Table 10.E - Intersection Improvement Funding Mechanism**

| Intersection | Jurisdiction | Recommended Improvements | Funding Mechanism | Improvements Covered by Clovis Development Improvement Fee Program/Operations |
|---|---|---|---|---|
| | | | | |
| 1 . Willow Avenue/Behymer Avenue | Clovis/Fresno | Add WBL, WBR, NBR overlap. Optimize signal timings. | Clovis DIF | Add WBL, WBR, NBR overlap. Optimize signal timings. |
| 2 . Willow Avenue/Perrin Avenue | Clovis/Fresno | Add EBL. Optimize signal timings. | Clovis DIF | Add EBL. Optimize signal timings. |
| 3 Peach Avenue/Behymer Avenue | Clovis/Fresno | Install a signal. | Clovis DIF | Install a signal. |
| 4 Minnewawa Avenue/Behymer Avenue | Clovis/Fresno | Install a signal with N/S protected phasing . Add NBL, continuous NBR, SBL, EBL,EBR, WBL, WBR. | Clovis DIF | Install a signal with N/S protected phasing . Add NBL, continuous NBR, SBL, EBL,EBR, WBL, WBR. |
| 5 Minnewawa Avenue/Perrin Avenue | Clovis/Fresno | Install a signal with protected phasing. Add NBL, NBTR, SBL, SBTR, EBL, WBL. | Clovis DIF | Install a signal with protected phasing. Add NBL, NBTR, SBL, SBTR, EBL, WBL. |
| 6 Minnewawa Avenue/Shepherd Avenue | Clovis/Fresno | Restripe NBR to NBTR. Add NBL, SBT,WBT. Add EBR and WBR overlap phasing. Optimize the signal timing. | Clovis Operations | Restripe NBR to NBTR. Add NBL, SBT,WBT. Add EBR and WBR overlap phasing. Optimize the signal timing. |
| | | | | |

**Notes:**

NB = Northbound, SB = Southbound, EB = Eastbound, WB = Westbound

L = Left, T = Through, R = Right

# 11.0 INTERSECTION QUEUING ANALYSIS

Tables 11.A, 11.B, and 11.C list the available turn-pocket storage lengths and summarize the 95th percentile back-of-queue lengths at the study intersections under existing, near-term (2028), and cumulative (2046) conditions. The queues for the signalized intersections have been reported from Synchro, while unsignalized intersections, the SimTraffic queues have been reported since Synchro does not appropriately report queues at unsignalized intersections.

Tables 11.D, 11.E, and 11.F lists the 95th percentile back-of-queue lengths at the study intersections for plus project and plus project with improvements conditions, under existing, near-term (2028), and cumulative (2046) scenarios. It also includes the recommended turn-pocket storage lengths at these intersections. The recommended turn pocket storage lengths have been calculated based on recommended lane geometry with improvements and availability of adequate right-of-way.

Detailed queuing worksheets are included in Appendix F.

## 11.1 LIST OF CHAPTER 11.0 TABLES

- Table 11.A: Existing Queuing Analysis
- Table 11.B: Near-Term (2028) Queuing Analysis
- Table 11.C: Cumulative (2046) Queuing Analysis
- Table 11.D: Existing Plus Project with Improvements Queuing Analysis
- Table 11.E: Near-Term (2028) Plus Project with Improvements Queuing Analysis
- Table 11.F: Cumulative (2046) Plus Project with Improvements Queuing Analysis

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## Table 11.A - Existing Queuing Analysis

| Intersection | Movement | Existing Storage Length[1] (ft/ln) | Existing | | | |
|---|---|---|---|---|---|---|
| | | | Without Project[2] | | Plus Project[2] | |
| | | | AM | PM | AM | PM |
| 1 . Willow Avenue/Behymer Avenue | **NBL** | 250 | 115 | 140 | 115 | 140 |
| Signal | **NBR** | 105 | 0 | 0 | 0 | 40 |
| | **SBL** | 250 | 85 | 115 | 85 | 125 |
| | **SBR** | 205 | 0 | 0 | 0 | 0 |
| | **EBL** | 230 | 100 | 40 | 100 | 40 |
| | **WBL** | 90 | 50 | 80 | **105** | **115** |
| 2 . Willow Avenue/Perrin Avenue | **2x NBL** | 235 | 40 | 70 | 40 | 75 |
| Signal | **NBR** | 145 | -- | -- | -- | -- |
| | **SBL** | 250 | 0 | 0 | 0 | 0 |
| | **SBR** | 130 | 30 | 30 | 30 | 30 |
| 6 . Minnewawa Avenue/Shepherd Avenue | **NBL** | 230 | 140 | 130 | 140 | 135 |
| Signal | **SBL** | 260 | 110 | 65 | 140 | 85 |
| | **SBR** | 15 | 0 | 0 | 0 | 0 |
| | **EBL** | 230 | 55 | 60 | 55 | 60 |
| | **EBR** | 45 | **70** | **55** | **75** | **55** |
| | **WBL** | 220 | 30 | 15 | 30 | 15 |
| | **WBR** | 60 | **80** | 40 | **90** | **65** |

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

**Bold** = Queue exceeds available storage.

[1] Storage length for all movements obtained from Google Earth measurements.

[2] All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

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## Table 11.B - Near-Term (2028) Queuing Analysis

| Intersection | Movement | Existing Storage Length[1] (ft/ln) | Near Term Year (2028) Plus Project[2] AM | Near Term Year (2028) Plus Project[2] PM |
|---|---|---|---|---|
| | | | | |
| 1. Willow Avenue/Behymer Avenue | **NBL** | 250 | 170 | 240 |
| Signal | **NBR** | 105 | 35 | 100 |
| | **SBL** | 250 | 110 | 170 |
| | **SBR** | 205 | 0 | 0 |
| | **EBL** | 230 | 105 | 45 |
| | **WBL** | 90 | **275** | **310** |
| | | | | |
| | | | | |
| 2. Willow Avenue/Perrin Avenue | **2x NBL** | 235 | 80 | 110 |
| Signal | **NBR** | 145 | 35 | 30 |
| | **SBL** | 250 | 45 | 55 |
| | **SBR** | 130 | 75 | 40 |
| | **EBL** | 230 | 215 | **245** |
| | **WBL** | 100 | **125** | **160** |
| | **WBR** | 100 | 0 | 0 |
| | | | | |
| | | | | |
| 6. Minnewawa Avenue/Shepherd Avenue | **NBL** | 230 | **285** | **455** |
| Signal | **SBL** | 260 | **325** | 210 |
| | **SBR** | 15 | **100** | **110** |
| | **EBL** | 230 | 150 | **250** |
| | **EBR** | 45 | **180** | **160** |
| | **WBL** | 220 | 80 | 65 |
| | **WBR** | 60 | **185** | **200** |
| | | | | |

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

**Bold** = Queue exceeds available storage.

[1] Storage length for all movements obtained from Google Earth measurements.

[2] All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

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## Table 11.C - Cumulative (2046) Queueing Analysis

| Intersection | Movement | Existing Storage Length[1] (ft/ln) | Cumulative (2046) | | | |
|---|---|---|---|---|---|---|
| | | | Without Project[2] | | Plus Project[2] | |
| | | | AM | PM | AM | PM |
| 1. Willow Avenue/Behymer Avenue | **NBL** | 250 | **275** | **345** | **275** | **345** |
| Signal | **NBR** | 105 | 90 | **530** | 90 | **535** |
| | **SBL** | 250 | 190 | **405** | 195 | **415** |
| | **SBR** | 205 | 0 | 0 | 0 | 0 |
| | **EBL** | 230 | 115 | 45 | 115 | 45 |
| | **WBL** | 90 | **885** | **920** | **885** | **915** |
| 2. Willow Avenue/Perrin Avenue | **2x NBL** | 235 | 110 | 225 | 110 | 225 |
| Signal | **NBR** | 145 | 46 | 145 | 50 | 145 |
| | **SBL** | 250 | 75 | 215 | 75 | 215 |
| | **SBR** | 130 | **225** | 125 | **225** | 125 |
| | **EBL** | 230 | **295** | **615** | **295** | **615** |
| | **WBL** | 100 | **220** | **300** | **220** | **300** |
| | **WBR** | 100 | 15 | 45 | 15 | 45 |
| 6. Minnewawa Avenue/Shepherd Avenue | **NBL** | 230 | **430** | **840** | **430** | **840** |
| Signal | **SBL** | 260 | **510** | **280** | **510** | **280** |
| | **SBR** | 15 | **190** | **195** | **190** | **195** |
| | **EBL** | 230 | 210 | **530** | 210 | **530** |
| | **EBR** | 45 | **560** | **340** | **560** | **340** |
| | **WBL** | 220 | 155 | 85 | 155 | 85 |
| | **WBR** | 60 | **325** | **300** | **325** | **300** |

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

**Bold** = Queue exceeds available storage.

[1] Storage length for all movements obtained from Google Earth measurements.

[2] All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

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## Table 11.D - Existing Plus Project with Improvements Queuing Analysis

| Intersection | Movement | Existing Storage Length[1] (ft/ln) | Plus Project Recommended Storage Length[1] (ft/ln) | Existing Plus Project with Improvements[2] | |
|---|---|---|---|---|---|
| | | | | AM | PM |
| 1. Willow Avenue/Behymer Avenue | **NBL** | 250 | 300 | 115 | 140 |
| Signal | **NBR** | 105 | 455 | 0 | 40 |
| | **SBL** | 250 | 415 | 85 | 125 |
| | **SBR** | 205 | 205 | 0 | 0 |
| | **EBL** | 230 | 230 | 100 | 40 |
| | **WBL** | 90 | 355 | 105 | 115 |
| 2. Willow Avenue/Perrin Avenue | **2x NBL** | 235 | 235 | 40 | 75 |
| Signal | **NBR** | 145 | 145 | -- | -- |
| | **SBL** | 250 | 250 | -- | -- |
| | **SBR** | 130 | 225 | 30 | 30 |
| | **EBL** | -- | -- | -- | -- |
| | **EBR** | -- | -- | -- | -- |
| 6. Minnewawa Avenue/Shepherd Avenue | **NBL** | 230 | 230 | 145 | 135 |
| Signal | **SBL** | 260 | 425 | 145 | 85 |
| | **SBR** | 15 | 150 | 0 | 0 |
| | **EBL** | 230 | 500 | 60 | 60 |
| | **EBR** | 45 | 45 | **75** | **55** |
| | **WBL** | 220 | 220 | 30 | 15 |
| | **WBR** | 60 | 175 | 50 | 45 |

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

**Bold** = Queue exceeds available storage.

[1] Storage length for all movements obtained from Google Earth measurements.

[2] All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

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**Table 11.E - Near-Term (2028) Plus Project with Improvements Queuing Analysis**

| Intersection | Movement | Existing Storage Length[1] (ft/ln) | Plus Project Recommended Storage Length[1] (ft/ln) | Near Term Year (2028) Plus Project with Improvements[2] AM | PM |
|---|---|---|---|---|---|
| 1. Willow Avenue/Behymer Avenue | NBL | 250 | 300 | 170 | 240 |
| Signal | NBR | 105 | 455 | 35 | 60 |
| | SBL | 250 | 415 | 110 | 170 |
| | SBR | 205 | 205 | 0 | 0 |
| | EBL | 230 | 230 | 105 | 45 |
| | WBL | 90 | 355 | 275 | 310 |
| 2. Willow Avenue/Perrin Avenue | 2x NBL | 235 | 235 | 80 | 110 |
| Signal | NBR | 145 | 145 | 15 | 30 |
| | SBL | 250 | 250 | 45 | 55 |
| | SBR | 130 | 225 | 55 | 40 |
| | EBL | 230 | 250 | 215 | 245 |
| | EBR | -- | -- | -- | -- |
| | WBL | 100 | 300 | 125 | 160 |
| | WBR | 100 | 100 | 0 | 0 |
| 4. Willow Avenue/Perrin Avenue | NBL | -- | 300 | 115 | 160 |
| Signal | NBR | -- | -- | 170 | 175 |
| | SBL | -- | 350 | -- | -- |
| | EBL | -- | 100 | -- | -- |
| | EBR | -- | 125 | -- | -- |
| | WBL | -- | 100 | -- | -- |
| | WBR | -- | 175 | -- | -- |
| 5. Minnewawa Avenue/Perrin Avenue | NBL | -- | 175 | 55 | 105 |
| Signal | SBL | -- | 100 | 10 | 5 |
| | EBL | -- | 175 | -- | -- |
| | WBL | -- | 100 | -- | -- |
| 6. Minnewawa Avenue/Shepherd Avenue | NBL | 230 | 230 | **285** | **420** |
| Signal | SBL | 260 | 425 | 325 | 210 |
| | SBR | 15 | 150 | 100 | 75 |
| | EBL | 230 | 500 | 150 | 315 |
| | EBR | 45 | 45 | **190** | **185** |
| | WBL | 220 | 220 | 185 | 65 |
| | WBR | 60 | 175 | 100 | 105 |

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

**Bold** = Queue exceeds available storage.

[1] Storage length for all movements obtained from Google Earth measurements.

[2] All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

LSA

**Table 11.F - Cumulative (2046) Plus Project with Improvements Queuing Analysis**

| Intersection | Movement | Existing Storage Length[1] (ft/ln) | Plus Project Recommended Storage Length[1] (ft/ln) | Cumulative (2046) Plus Project with Improvements[2] AM | Cumulative (2046) Plus Project with Improvements[2] PM |
|---|---|---|---|---|---|
| 1. Willow Avenue/Behymer Avenue | NBL | 250 | 300 | 300 | 265 |
| Signal | NBR | 105 | 455 | 55 | 455 |
| | SBL | 250 | 415 | 215 | 410 |
| | SBR | 205 | 205 | 0 | 0 |
| | EBL | 230 | 230 | 140 | 45 |
| | WBL | 90 | 355 | 340 | 355 |
| | WBR | -- | 150 | 105 | 65 |
| 2. Willow Avenue/Perrin Avenue | 2x NBL | 235 | 235 | 110 | 170 |
| Signal | NBR | 145 | 145 | 50 | 145 |
| | SBL | 250 | 250 | 75 | 200 |
| | SBR | 130 | 225 | 225 | 75 |
| | 2x EBL | 230 | 250 | **295** | **555** |
| | EBR | -- | -- | -- | -- |
| | WBL | 100 | 300 | 220 | **315** |
| | WBR | 100 | 100 | 15 | 5 |
| 4. Minnewawa Avenue/Behymer Avenue | NBL | -- | 300 | 115 | 290 |
| Signal | NBR | -- | -- | 10 | 35 |
| | SBL | -- | 350 | 130 | 330 |
| | EBL | -- | 100 | 25 | 35 |
| | EBR | -- | 125 | 45 | 120 |
| | WBL | -- | 100 | 65 | 85 |
| | WBR | -- | 150 | 100 | 120 |
| 5. Minnewawa Avenue/Perrin Avenue | NBL | -- | 175 | 135 | 165 |
| Signal | SBL | -- | 100 | 10 | 15 |
| | EBL | -- | 175 | 125 | 155 |
| | WBL | -- | 100 | 35 | 35 |
| 6. Minnewawa Avenue/Shepherd Avenue | NBL | 230 | 230 | 165 | **295** |
| Signal | SBL | 260 | 425 | 415 | 335 |
| | SBR | 15 | 150 | 140 | 120 |
| | EBL | 230 | 500 | 255 | 480 |
| | EBR | 45 | 45 | **470** | **305** |
| | WBL | 220 | 220 | 190 | 80 |
| | WBR | 60 | 175 | 175 | 175 |

LSA

## Table 11.F - Cumulative (2046) Plus Project with Improvements Queuing Analysis

| Intersection | Movement | Existing Storage Length[1] (ft/ln) | Plus Project Recommended Storage Length[1] (ft/ln) | Cumulative (2046) Plus Project with Improvements[2] | |
|---|---|---|---|---|---|
| | | | | AM | PM |
| 9. Project Driveway 3/Behymer Avenue | WBL | -- | 100 | 20 | 45 |
| OWSC | | | | | |
| | | | | | |
| | | | | | |

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

**Bold** = Queue exceeds available storage.

[1] Storage length for all movements obtained from Google Earth measurements.

[2] All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

# 12.0 SITE DISTANCE ANALYSIS AND SAFE ROUTES TO SCHOOL ANALYSIS

As discussed previously and shown on Figure 1-2, access to the project will be provided by four driveways: one full-access driveway on future Peach Avenue and two RIRO access and one right-in-right-out-left-in driveway along Behymer Avenue.

## 12.1 SIGHT DISTANCE ANALYSIS

A sight distance analysis was conducted at the project driveways along Behymer Avenue and future roadway on Peach Avenue. Sight distance is the length of the visible roadway a driver can see approaching vehicles before their line of sight is blocked by any object. For purposes of this analysis, only the stopping sight distance and corner sight distance have been evaluated. That is because those are the only two sight distance issues that would affect safe maneuver of ingress/egress traffic from the project driveway.

According to the Caltrans *Highway Design Manual* (HDM) (dated July 2020), the stopping sight distance is the minimum sight distance along a roadway required to allow a driver to decrease their speed from the design speed to a complete stop. The corner sight distance is the minimum sight distance in which a driver at a stop-controlled approach can see oncoming traffic on the major street to safely maneuver onto the roadway.

The stopping sight distance was evaluated on the roadways along the project frontage (i.e., Peach Avenue and Behymer Avenue). For purposes of this analysis, the posted speed limit of 30 mph has been considered as the design speed for Peach Avenue and the posted speed limit is 40 mph on Behymer Avenue. As stated in Table 201.1 of the HDM, the minimum stopping sight distance is 200 feet for a design speed of 30 mph and 300 feet for a design speed of 40 mph. Therefore, the minimum stopping sight distance has been considered as 200 feet for Project Driveway 1 (along Peach Avenue) and 300 feet for Project Driveway 2, Project Driveway 3, and Project Driveway 4 (along Behymer Avenue).

As for corner sight distance, Section 405.1 of the HDM states that corner sight distance requirements are not applicable for urban driveways unless signalized. However, as a conservative approach, corner sight distance were also evaluated for the project driveway. The minimum corner sight distance was based on design speed, time gap, and type of vehicles from the minor roads (project driveways) to enter the major roads (Peach Avenue and Behymer Avenue). Based on the requirements established in the HDM, it was determined that a minimum corner sight distance of 335 feet would be required for left-turn maneuvers coming out of Project Driveway 1. Furthermore, a minimum corner sight distance of 290 feet would be required for right-turn maneuvers coming out of Project Driveway 1 and 385 feet would be required for right-turn maneuvers coming out of Project Driveway 2, Project Driveway 3, and Project Driveway 4.

Since the corner sight distance required at the project driveway would be greater than the stopping sight distance, sight triangle figures were created using the corner sight distance. As a conservative measure, left-turn corner sight distance was used for both right- and left-turn sight triangles for the project driveway 1. As illustrated in Figure 12-1, Project Driveway 1 will provide adequate sight

distance for left- and right-turn maneuvers onto Peach Avenue. Similarly, as illustrated in Figure 12-2, Figure 12-3 and Figure 12-4, the Project Driveways will provide adequate sight distance for right-turn maneuvers onto Behymer Avenue.

## 12.2 SAFE ROUTES TO SCHOOL

The project will be under the jurisdiction of the Clovis Unified School District (CUSD). The CUSD provides transportation for students who live in excess of an established radius zone. The zones are a radius of 1.00 mile for grades Kindergarten through 6$^{th}$ and 2.50 miles for grades 7$^{th}$ through 12$^{th}$.

The nearest elementary school is Riverview Elementary School, which is located at the southeast corner of the intersection of Chestnut Avenue/Behymer Avenue. The distance between the project corner and the school along Chestnut Avenue/Behymer Avenue is approximately 0.9 mile. Therefore, it is estimated that children from the project will be accessing the elementary school by car, bike, or by walking. This school can be accessed from the project site by traveling west along Behymer Avenue to the intersection of Willow Avenue/Behymer Avenue and continuing west along Beymer Avenue to the intersection of Chestnut Avenue/Behymer Avenue.

It should be noted that the project is within the vicinity of the proposed Heritage Grove Specific Plan project. Based on the project description of the Specific Plan, an elementary school is being proposed within Planning Area 9 of the Specific Plan. Though the completion date for this elementary school is still undetermined, elementary school students from the project are anticipated to attend this school once completed. This new school will be within close proximity of the project site. The Heritage Grove Specific Plan project will also be constructing sidewalks and bike lanes as part of internal circulation network to provide safe route for walking and biking to school. As such, no further safety improvements may be required for the elementary school students upon construction of this elementary school.

Currently, sidewalks are present along both sides of Behymer Avenue between Chestnut and Willow Avenue. The project will be adding sidewalks along Behymer Avenue along the project frontage. The intersections of Willow Avenue/Behymer Avenue and Chestnut Avenue/Behymer Avenue are signalized intersections with marked crosswalks for pedestrians. As such, with these proposed improvements, people could safely walk using the sidewalks described above and also could safely cross these intersections when permitted without any conflicting vehicular movements. The intersection of Peach Avenue/Behymer Avenue is currently stop controlled along the minor lanes. However, a signal has been recommended at this intersection. Therefore, a signal will be installed at this intersection with marked crosswalks and other safety improvements. As such, a safe walking route to the elementary school would be present for elementary school students from the project.

The nearest middle school from the project is Granite Ridge Intermediate School and nearest high school is the Clovis North High School, both of which are located at the northwest corner of the intersection of Willow Avenue/International Avenue. The distance between the schools and the project is approximately 1 mile and additionally, the project is included within the school's walking radius area. The most direct connection to these schools from the project is using the same routes toward Riverview Elementary School and continue northbound on Willow Avenue. Clovis Old Town Trail is present on the southbound direction of Willow Avenue between Behymer Avenue and

International Avenue. Additionally, the intersection of Willow Avenue/International Avenue is a signalized intersection with a marked crosswalk. As such, a safe walking route would exist between the project and the schools and no further safety improvements will be required.

## 12.3 LIST OF CHAPTER 12.0 FIGURES

- Figure 12-1: Sight Distance Analysis at Peach Avenue/Project Driveway 1
- Figure 12-2: Sight Distance Analysis at Project Driveway 2/Behymer Avenue
- Figure 12-3: Sight Distance Analysis at Project Driveway 3/Behymer Avenue
- Figure 12-4: Sight Distance Analysis at Project Driveway 4/Behymer Avenue




LSA

FIGURE 12-1

N

0 40' 80'
FEET

SOURCE: De Young Properties, February 2024.
P:\20231181 De Young Annexation\Sight Access\Sight Access.dwg (8/12/2024)

*De Young Properties Peach and Behymer Project*
*Transportation Impact Study*

Sight Distance Analysis at Peach Avenue/Project Driveway 1




LSA

FIGURE 12-2

*De Young Properties Peach and Behymer Project*
*Transportation Impact Study*

Sight Distance Analysis at Project Driveway 2/Behymer Avenue

SOURCE: De Young Properties, February 2024.
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LSA

FIGURE 12-3

0 50' 100'
FEET

SOURCE: De Young Properties, February 2024.
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*De Young Properties Peach and Behymer Project*
*Transportation Impact Study*

Sight Distance Analysis at Project Driveway 3/Behymer Avenue




LSA

FIGURE 12-4

*De Young Properties Peach and Behymer Project*
*Transportation Impact Study*

Sight Distance Analysis at Project Driveway 4/Behymer Avenue

SOURCE: De Young Properties, February 2024.
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# 13.0 SUMMARY AND CONCLUSIONS

The proposed project will consist of 266 single-family homes on approximately 37 acres of the site. The remaining 32,974 sf of the site will be used for park space. It is anticipated that the project buildout will occur in year 2028. Access to the project will be provided by four driveways.

## 13.1 VEHICLE MILES TRAVELED ANALYSIS SUMMARY

The project's VMT per capita is 14.9 which is 5.5 percent higher than the City's VMT per capita threshold. Therefore, based on the TIA Guidelines, the project will have a significant VMT impact. However, given the project is consistent with the City's General Plan, it would fall under the Statement of Overriding Considerations for the City's General Plan EIR and would implement the mitigation measures recommended in the EIR. As such, the project would not require any additional mitigation measures than what has been recommended in the General Plan EIR.

## 13.2 EXISTING CONDITIONS SUMMARY

All study intersections operate at a satisfactory LOS under existing without and plus project conditions with the exception of intersection at Minnewawa Avenue/Behymer Avenue.

## 13.3 NEAR-TERM (2028) CONDITIONS SUMMARY

All intersections are forecast to operate at a satisfactory LOS under near-term (2028) plus project conditions with the exception of 3 intersections.

## 13.4 CUMULATIVE (2046) CONDITIONS SUMMARY

All intersections are forecast to operate at a satisfactory LOS under cumulative (2046) without and plus project conditions with the exception of 6 intersections.

## 13.5 IMPROVEMENTS SUMMARY

Based on the improvements discussed in Section 10.1 'Recommended Improvements', of this report, all intersections are estimated to operate satisfactorily. All of the recommended circulation improvements are covered by the Clovis Operations and Development Impact Fee.

## 13.6 QUEUEING ANALYSIS SUMMARY

The recommended storage lengths have been proposed at intersections based on the availability of right-of-way and 95th percentile back-of-queue lengths at the study intersections.

## 13.7 SIGHT DISTANCE ANALYSIS SUMMARY

A sight distance analysis was conducted at the project driveways. Based on the sight distance analysis, the proposed project driveways achieve adequate sight distances and have clear sight triangles for the drivers.

## 13.8 SAFE ROUTES TO SCHOOL ANALYSIS SUMMARY

The project is well connected with the nearby elementary school, intermediate school and the high school for non-motorized modes of commute due to existing and proposed sidewalks as well as signalized intersections with marked crosswalks.

# APPENDIX A

# SCOPING AGREEMENT

LSA

CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

April 19, 2024

Mr. Sean K. Smith
Supervising Civil Engineer
Engineering Division, City of Clovis
1033 Fifth Street
Clovis, California 93612

Subject: Scope of Work for De Young Properties Peach and Behymer Project Transportation Impact Analysis (LSA Project No. 20231181)

Dear Sean:

LSA will be preparing a Transportation Impact Analysis (TIA) for the De Young Properties Peach and Behymer Project (project) in Clovis (City). The approximately 37 acres project site is located at the southwest corner of Minnewawa Avenue and Behymer Avenue on parcels 556-01-028 and 556-01-029. The project site is currently occupied by one residential unit and agricultural uses. Figure 1 (all figures, tables, and appendices attached) illustrates the regional and project location.

The proposed project is located within City's sphere of influence (SOI) and within the northwest urban center growth area. The project is proposing to annex approximately 37 acres from Fresno County into the City and includes the development of 266 single family dwelling units and 32,974 square-feet (sf) of park space. Figure 2 illustrates the tentative subdivision map for the residential development in the project. Access to the project site will be provided via four project driveways – one on future extension of Peach Avenue, and three on Behymer Avenue. The following provides a brief description of proposed access controls for all project driveways:

- Project Driveway 1: This driveway will be located along Peach Avenue and will be a full access driveway.
- Project Driveway 2: This driveway will be located along Behymer Avenue and will be a right-in-right-out (RIRO) only driveway.
- Project Driveway 3: This driveway will be located along Behymer Avenue and will be a right-in-right-out-left-in driveway. Left-out access will be restricted.
- Project Driveway 4: This driveway will be located along Behymer Avenue and will be a RIRO only driveway.

It should be noted that the project is also anticipated to have connections to adjacent future residential development located immediately south of the project site.

The City requires preparation of TIAs using the City of Clovis *Transportation Impact Analysis Guidelines* for land uses projects within the City. As recommended in the City's TIA Guidelines, a Local Transportation Analysis (LTA) would be required for City's General Plan consistency

requirement purposes, while a vehicle Miles Traveled Analysis will be required for California Environmental Quality Act (CEQA) Transportation Impact Assessment purposes. As such, LSA anticipates that the following scope of work will be required to prepare the TIA for the proposed project.

## LOCAL TRANSPORTATION ANALYSIS

### Study Area Intersections

An LTA will be prepared to satisfy the requirements established by the City's TIA Guidelines to evaluate the project's effect on General Plan level of service (LOS) requirements. Traffic operations at all study intersections will be analyzed during the weekday a.m. and p.m. peak hours. The a.m. peak hour is defined as the one-hour period of the highest traffic volume occurring between 7:00 and 9:00 a.m. while the p.m. peak hour is defined as the one-hour period of the highest traffic volume occurring between 4:00 and 6:00 p.m. Intersection LOS will be calculated using the *Highway Capacity Manual* 7th Edition (HCM 7) analysis methodologies and by using the Synchro 12 software.

As per the City's TIA guidelines, the extent of the study area should include the following:

- Pedestrian, bicycle, and transit facilities within a half-mile distance from the project site boundary;
- All intersections of major streets that would provide direct access to the project;
- All signalized intersections within one-half mile of the project site boundary where the project would add 50 or more peak hour trips, and signalized intersections beyond one-half mile where the project would add 100 or more peak hour trips; and
- All unsignalized intersections within a half-mile of the project site boundary where the project would add more than 50 peak hour trips.

As such, the TIA will examine the following intersections:

1. Willow Avenue/Behymer Avenue (City of Clovis/City of Fresno);
2. Willow Avenue/Perrin Avenue (City of Clovis/City of Fresno);
3. Peach Avenue/Behymer Avenue (City of Clovis);
4. Minnewawa Avenue/Behymer Avenue (City of Clovis);
5. Minnewawa Avenue/Shepherd Avenue (City of Clovis);
6. Peach Avenue/Perrin Avenue [Future intersection] (City of Clovis);
7. Peach Avenue/Project Driveway 1 (City of Clovis);
8. Project Driveway 2/Behymer Avenue (City of Clovis);
9. Project Driveway 3/Behymer Avenue (City of Clovis); and
10. Project Driveway 4/Behymer Avenue (City of Clovis).

Figure 3 illustrates the study area intersections.

## Project Trip Generation, Trip Distribution, and Trip Assignment

The trip generation for the proposed project was developed using rates from the Institute of Transportation Engineers (ITE) *Trip Generation Manual* (11th Edition) for Land Uses 210 - "Single-Family Detached Housing – Setting/Location General Urban/Suburban." The project trip generation is summarized in Table A. The project is anticipated to generate 2,508 total daily trips, with 186 trips occurring during the a.m. peak hour and 250 trips occurring during the p.m. peak hour.

The project trip distribution patterns were derived from the select zone model run obtained from the Fresno Council of Governments' (COG's) Activity-Based Model (ABM). The select zone model plot is included in Appendix A. This was further refined to reflect existing and future circulation network in the vicinity of the proposed project.

Currently, within the project vicinity, Peach Avenue, north of Shepherd Avenue, and Perrin Avenue east of Willow Avenue, are yet to be constructed. As such, it is estimated that this segment of Peach Avenue (between southern end of the project and Shepherd Avenue) along with Perrin Avenue east of Willow Avenue (between Willow Avenue and Peach Avenue) would be constructed along with other major developments within the area as part of the Heritage Grove Specific Plan Project envelop. However, since there is no determined timeline for these circulation improvements, two separate project trip distribution patterns were developed for the project, one for existing and near-term scenario, which reflects the existing circulation network in the project vicinity, and another for cumulative long-term scenario, which accounts for completion of Peach Avenue, Clovis Avenue and Perrin Avenue, among other circulation network improvements.

Additionally, as previously mentioned, upon completion of the adjacent residential projects south of the project limit, project trips may utilize the expanded circulation network to travel south and access Peach Avenue, Perrin Avenue or Minnewawa Avenue. However, as a conservative estimate since these developments are yet to be developed and the circulation network is not finalized, it was estimated that all project trips will be utilizing the four project driveways. This would provide a more conservative estimate in determination of operational efficiencies at the project driveways.

Figure 4 illustrates the existing and near-term project trip distribution. Figure 5 illustrates the cumulative scenario project trip distribution. The project trip assignment at the study area intersections is the product of the project trip generation and the corresponding trip distribution percentages. Figure 6 illustrates the existing and near-term conditions project trip assignment at the study area intersections. Figure 7 illustrates the cumulative conditions project trip assignment at the study area intersections.

## Analysis Scenarios

The LTA will be prepared based on consultation with City staff and meet the requirements recommended in the City's TIA Guidelines. As recommended in the City's TIA Guidelines, the LOS analysis will examine traffic operations at the study intersections under the following scenarios:

- Existing Conditions;
- Existing Plus Project Conditions;

- Near-Term Plus Project Conditions;
- Cumulative Long-Range Without Project Conditions; and
- Cumulative Long-Range Plus Project Conditions.

### Volume Development and Analysis Methodology

Traffic volumes for existing conditions will be developed using existing count data collected at study intersections.

Traffic volumes under near-term plus project conditions will be developed by adding traffic volumes from approved and pending development projects located near the study area and project traffic to existing traffic volumes. LSA will contact City staff and adjacent jurisdictions for a list of approved and pending development projects that are estimated to be completed by the project completion year.

Traffic volumes for cumulative year without project conditions will be developed by using forecast volumes obtained from the Fresno COG ABM. The methodology to develop cumulative year without project traffic volumes at study area intersections will be consistent with the COG's procedures for post-processing of modeled traffic volumes.

Existing and cumulative year plus project traffic volumes will be developed by adding project traffic to the traffic volumes for the corresponding without project scenarios.

For all analysis scenarios, intersection LOS will be calculated using the *Highway Capacity Manual* 7th Edition (HCM 7) analysis methodologies and by using the Synchro 12 software.

### Intersection Queuing Analysis

An intersection queuing analysis will be performed at all study intersections. The queuing analysis will be performed using Synchro for signalized intersections and using SimTraffic for unsignalized intersections.

### Analysis of Traffic Operations and Recommended Circulation Improvements

LOS without the project will be compared with LOS under plus project scenarios for all analysis scenarios to determine operational deficiencies based on the LOS standards and operational deficiency criteria as applicable for the City. Furthermore, necessary improvements will be recommended to offset any operational deficiencies. Improvements may include addition of intersection turn lanes, changes in traffic control, signalization, etc. The LOS with the proposed improvements will be calculated and summarized, along with a comparison of the LOS without improvements.

### Signal Warrant Analysis (if Required)

A peak hour signal warrant analysis would be conducted at unsignalized intersections if a signal is recommended as an improvement. Peak hour approach volumes for study intersections will be examined to determine whether signalization may be warranted per the criteria defined in the California supplement of the *Manual on Uniform Traffic Control Devices* (CA-MUTCD).

### Fair-Share Contributions (if Required)

A fair share percentage will be calculated for study intersection improvements recommended in the TIA that are not included in the Measure C program, the City's Development Fee program, or any other funding program. The percentage of fair share for the project will be calculated at each location using the total trips generated by the project divided by the total "new" traffic, which is the net increase in traffic volumes from existing to cumulative year conditions.

### Site Access and Circulation Analysis

A site access and circulation analysis will be conducted as per the criteria stated in the City's TIA guidelines. The following issues will be evaluated as part of this analysis:

- Anticipated queues and minimum required throat depth (MRTD) at all project access locations;
- A sight distance analysis at the project driveways including recommended improvements in cases of unsafe traffic conditions; and
- Safety of potential pedestrian paths of travels from the project site to schools, commercial areas, and nearby bus stops.

### Safe Routes to School Analysis

Since the project is residential in nature, a safe route to school analysis would be included as part of the LTA. This would analyze the pedestrian and bike facilities en route to school from the project and discuss necessary improvements, if required.

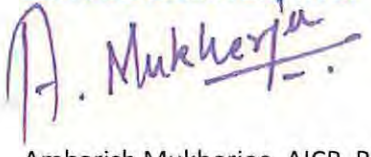
## PROJECT VEHICLE MILES TRAVELED ANALYSIS

The TIA will include a Vehicle Miles Traveled (VMT) analysis to meet CEQA requirements. The project VMT analysis will be prepared consistent with the City's TIA Guidelines. As per the City's TIA Guidelines, the project cannot be considered as a small project given that the project exceeds 53 dwelling units. Therefore, a full VMT analysis will be required for the project. For purposes of this analysis, the project-generated VMT per capita will be obtained from the Fresno COG ABM. As per the City's TIA Guidelines, a significant project-generated VMT impact would occur if the project's VMT per capita exceeds a level of 13 percent below the existing County average VMT per capita provided in the guidelines. However, it should be noted that since the project is consistent with the City's General Plan, it may fall under the Statement of Overriding Considerations for the City's General Plan EIR and may not require any additional project specific mitigation measures.

Should you have any questions, please do not hesitate to contact me at (951) 781-9310 or email me at Ambarish.Mukherjee@lsa.net.

Sincerely,

**LSA ASSOCIATES, INC.**



Ambarish Mukherjee, AICP, PE
Principal

## ATTACHMENTS

Table A: Project Trip Generation
Figure 1: Regional and Project Location
Figure 2: Tentative Subdivision Map
Figure 3: Study Area Intersections
Figure 4: Existing and Near-Term Project Trip Distribution
Figure 5: Cumulative Project Trip Distribution
Figure 6: Existing and Near-Term Project Trip Assignment
Figure 7: Cumulative Project Trip Assignment
Appendix A: Fresno COG ABM Select Zone Model Plots

LSA

# TABLES

LSA

## Table A - Project Trip Generation

| Land Use | Units | A.M. Peak Hour In | A.M. Peak Hour Out | A.M. Peak Hour Total | P.M. Peak Hour In | P.M. Peak Hour Out | P.M. Peak Hour Total | Daily |
|---|---|---|---|---|---|---|---|---|
| **Single-Family Detached Housing** | 266 DU | | | | | | | |
| Trips/Unit[1] | | 0.18 | 0.52 | 0.70 | 0.59 | 0.35 | 0.94 | 9.43 |
| Trip Generation | | **48** | **138** | **186** | **157** | **93** | **250** | **2,508** |

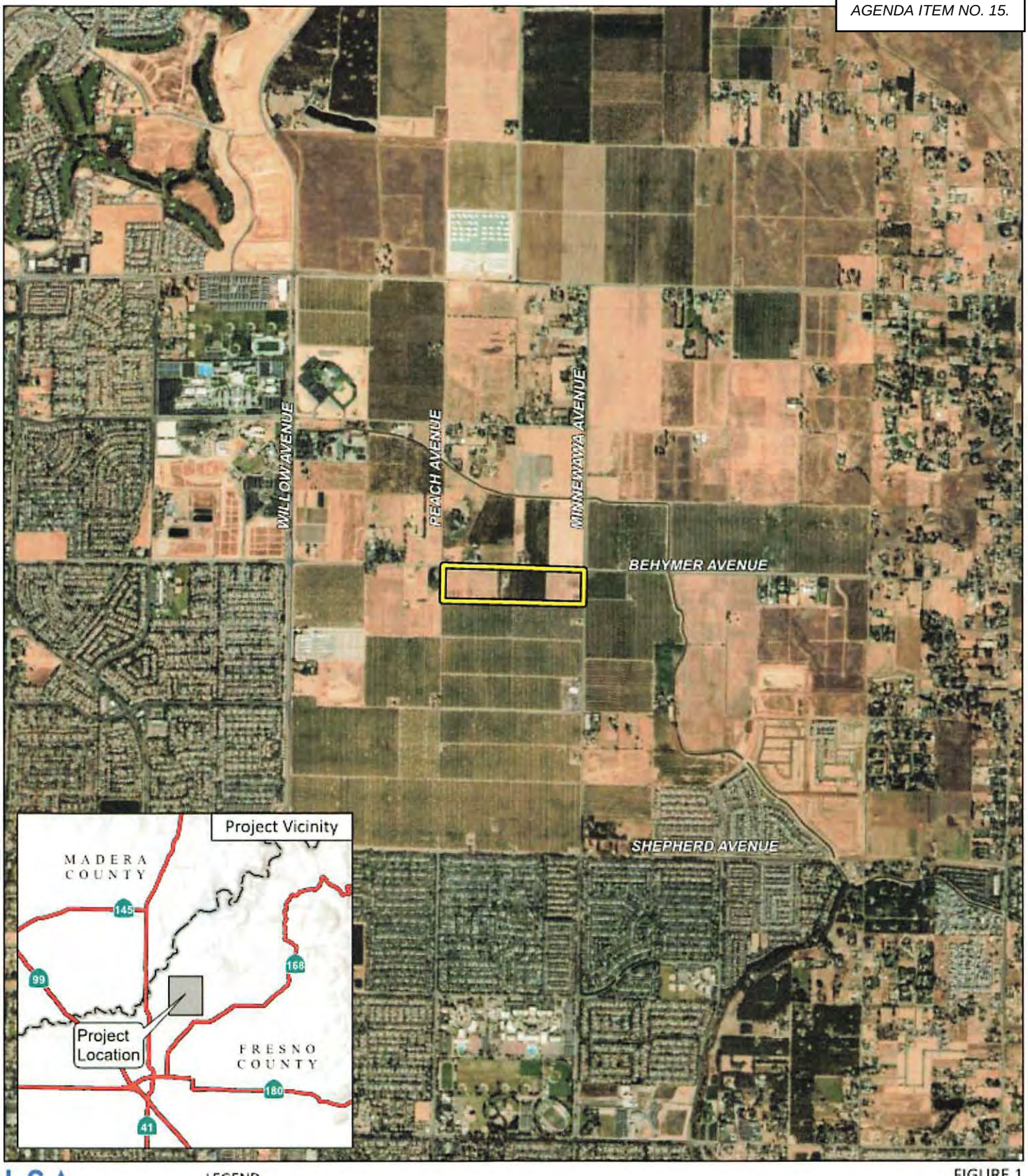
Notes:

DU = Dwelling Units

[1] Rates based on Land Use 210 - "Single-Family Detached Housing" from the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, 11th Edition, Setting/Location - "General Urban/Suburban."

LSA

# FIGURES




LSA

LEGEND

Project Location

FIGURE 1

0 1200 2400

FEET

SOURCE: ESRI Streetmap, 2021; Google Earth, 2022.

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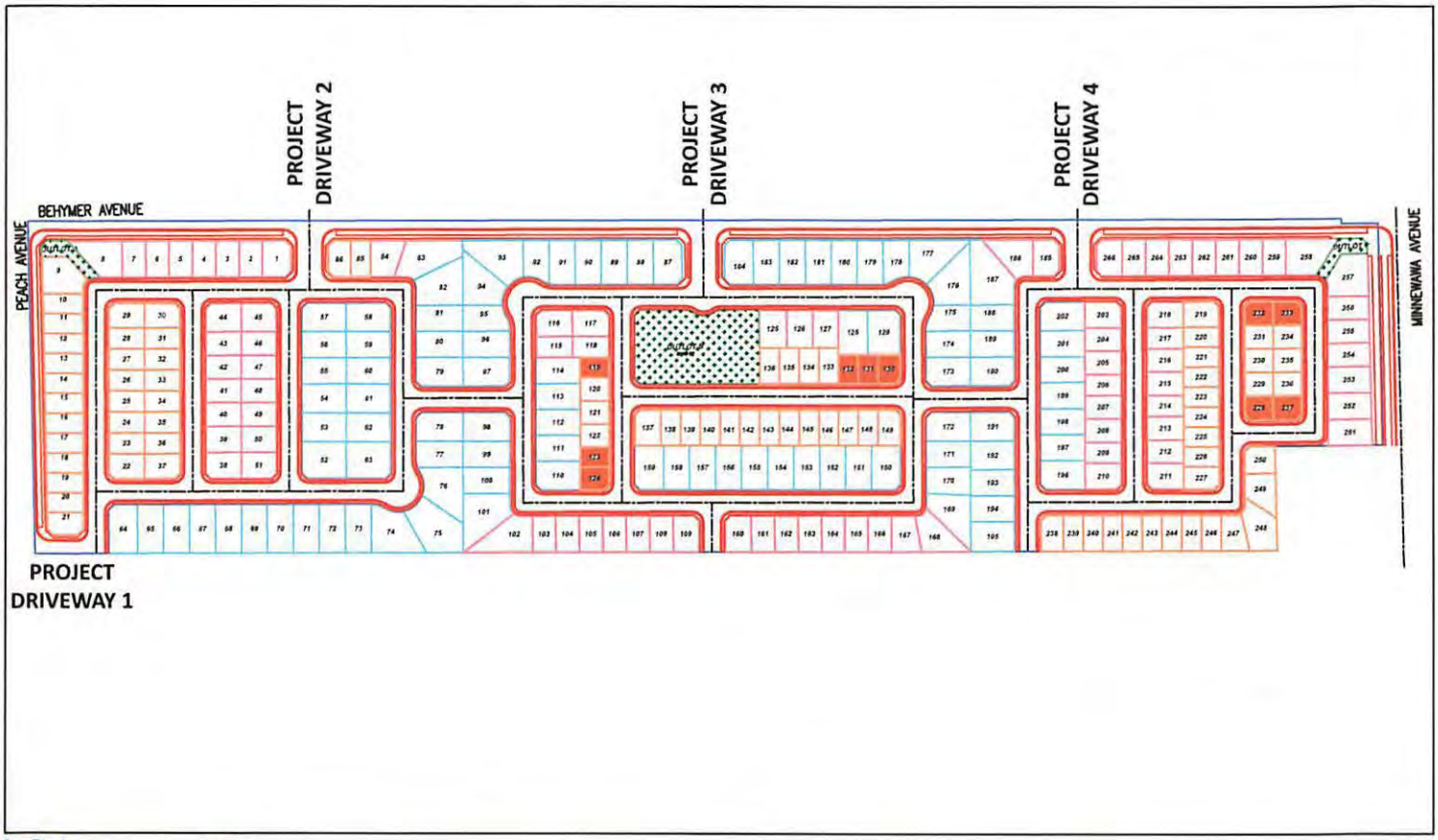
*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*
Regional and Project L




LSA

LEGEND

| | | |
|---|---|---|
| 38' X 55' -TYPICAL | 10 LOTS | |
| 38' X 68'- TYPICAL | 79 LOTS | |
| 45' X 70'- TYPICAL | 82 LOTS | |
| 50' X 85'- TYPICAL | 95 LOTS | |
| 266 TOTAL SFR LOTS | | |

PARK

N

0 150 300
FEET

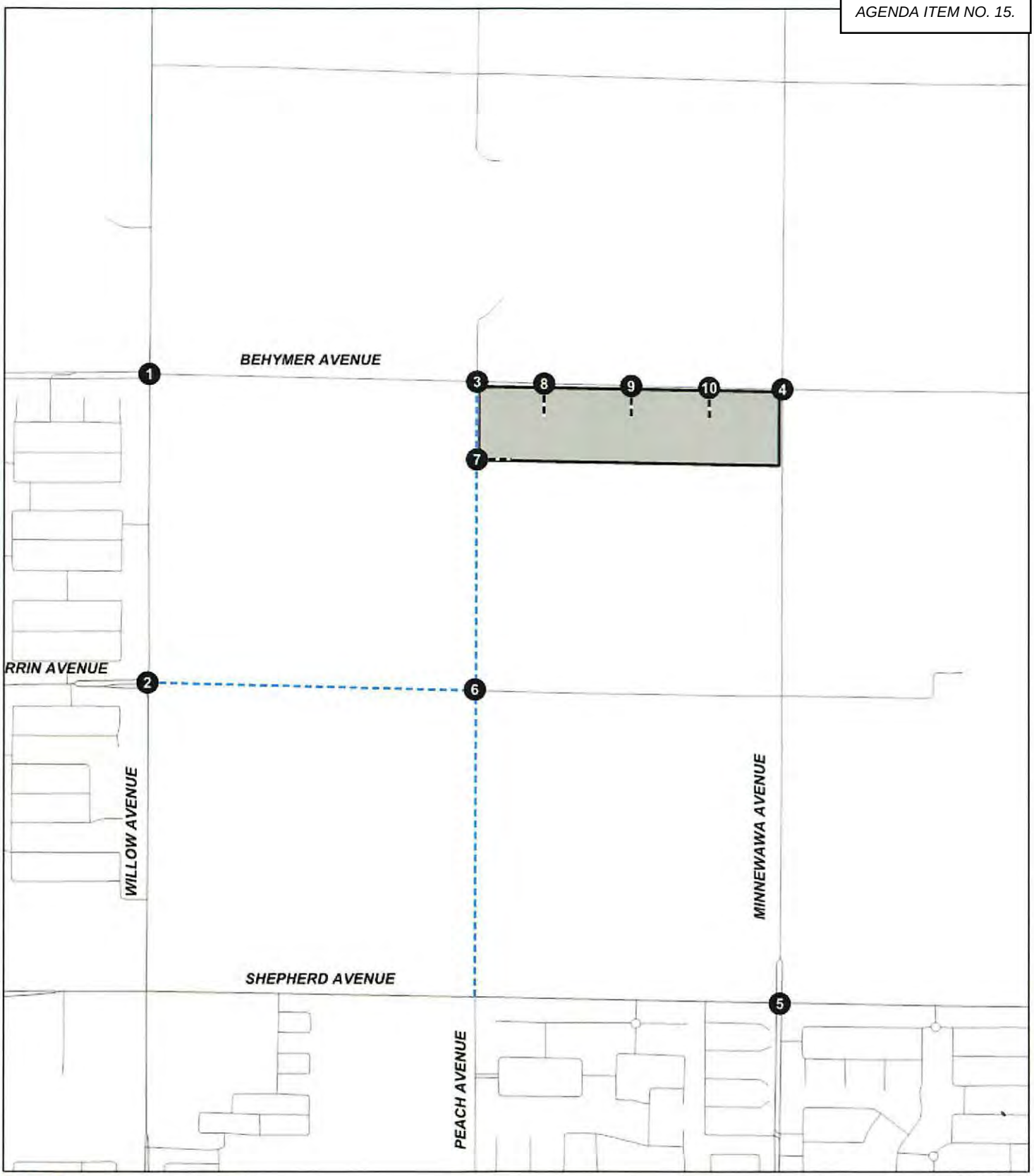
SOURCE: De Young Properties, February 2024.

P:\20231181 De Young Anexation\GIS\Report\Site Plan (4/05/2024)

FIGURE 2

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Conceptual Site Plan




LSA

LEGEND

- Project Location
- Study Intersections
- Project Driveway
- Future Roadway

0 600 1200
FEET

FIGURE 3

*De Young Properties Peach and Behymer*

Study Inters



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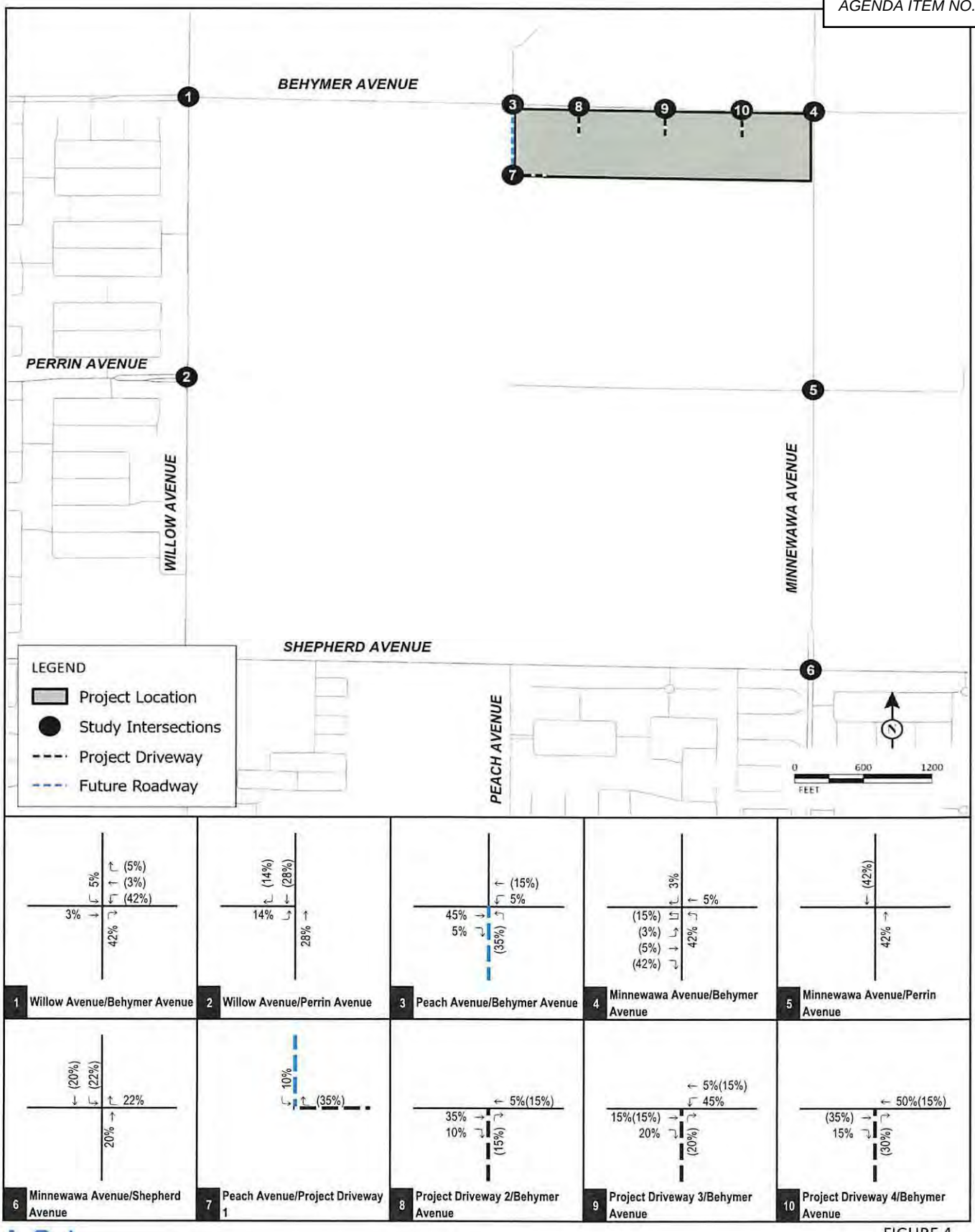


FIGURE 4

LSA

XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway
Future Roadway

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Existing and Near-Term Project Trip Distribution

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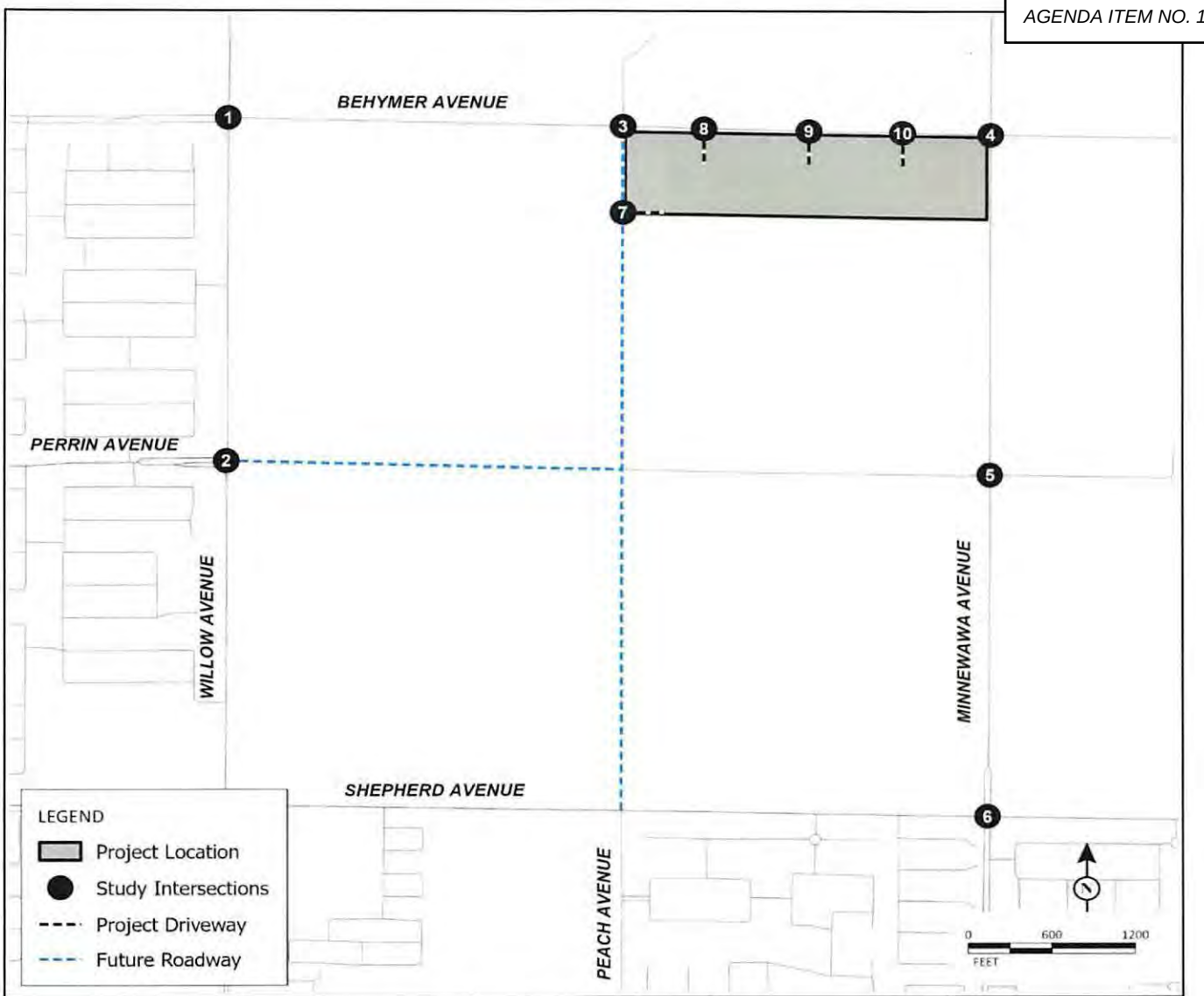


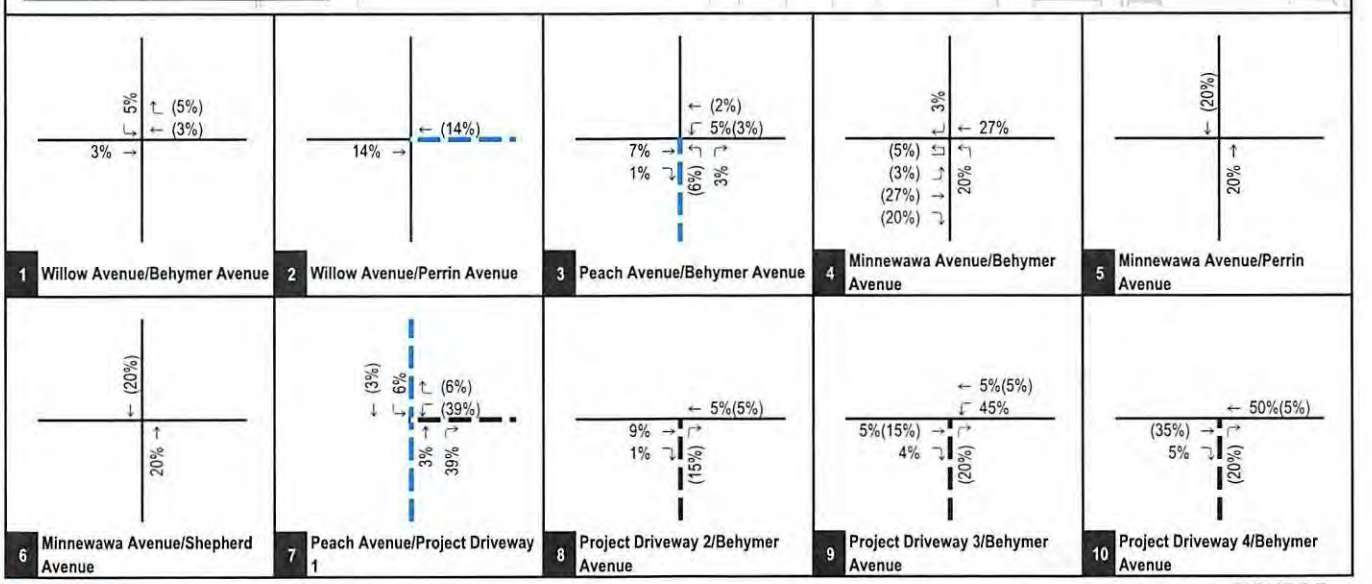


FIGURE 5

LSA

XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway
Future Roadway

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Cumulative Project Trip Distribution

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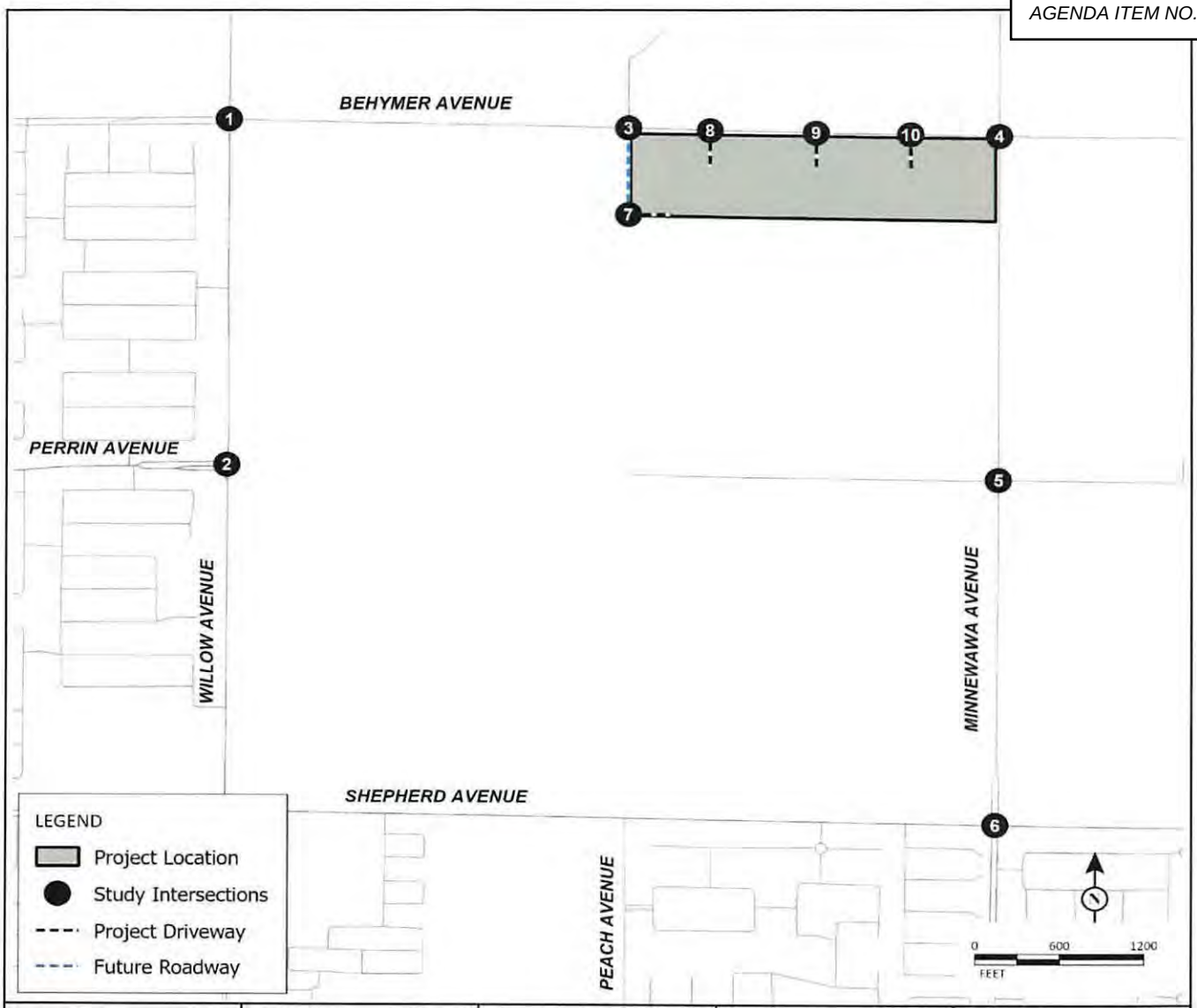


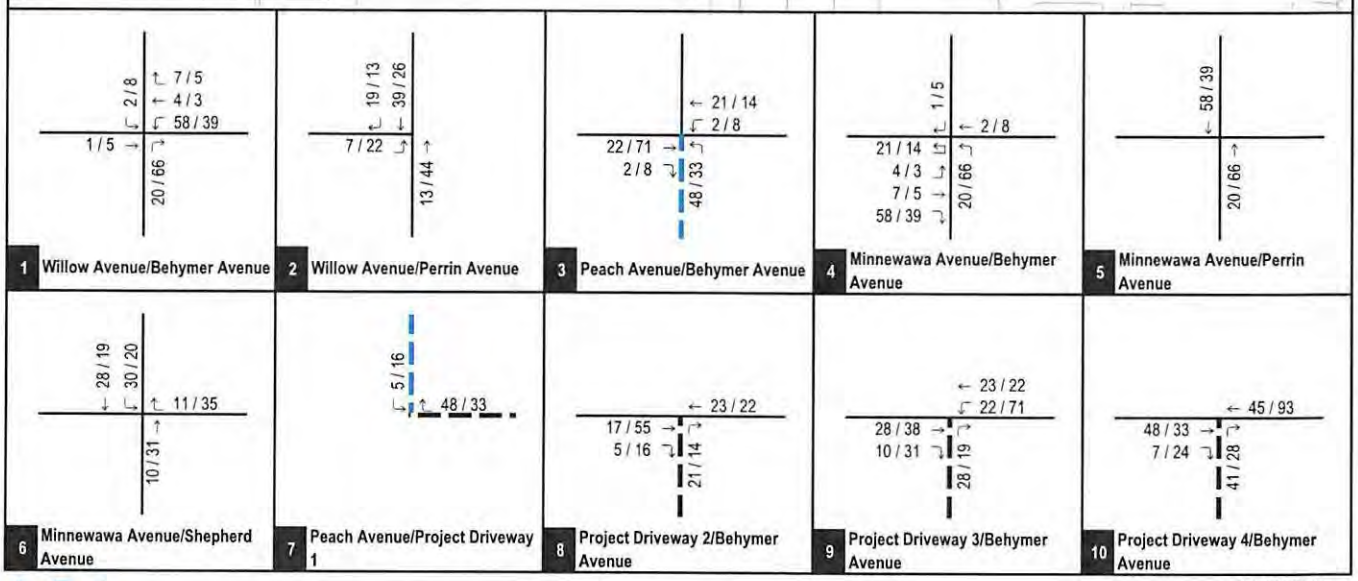


LSA

FIGURE 6

XX / YY
AM / PM Peak Hour Trips
Project Driveway
Future Roadway

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Existing and Near-Term Project Trip Assignment

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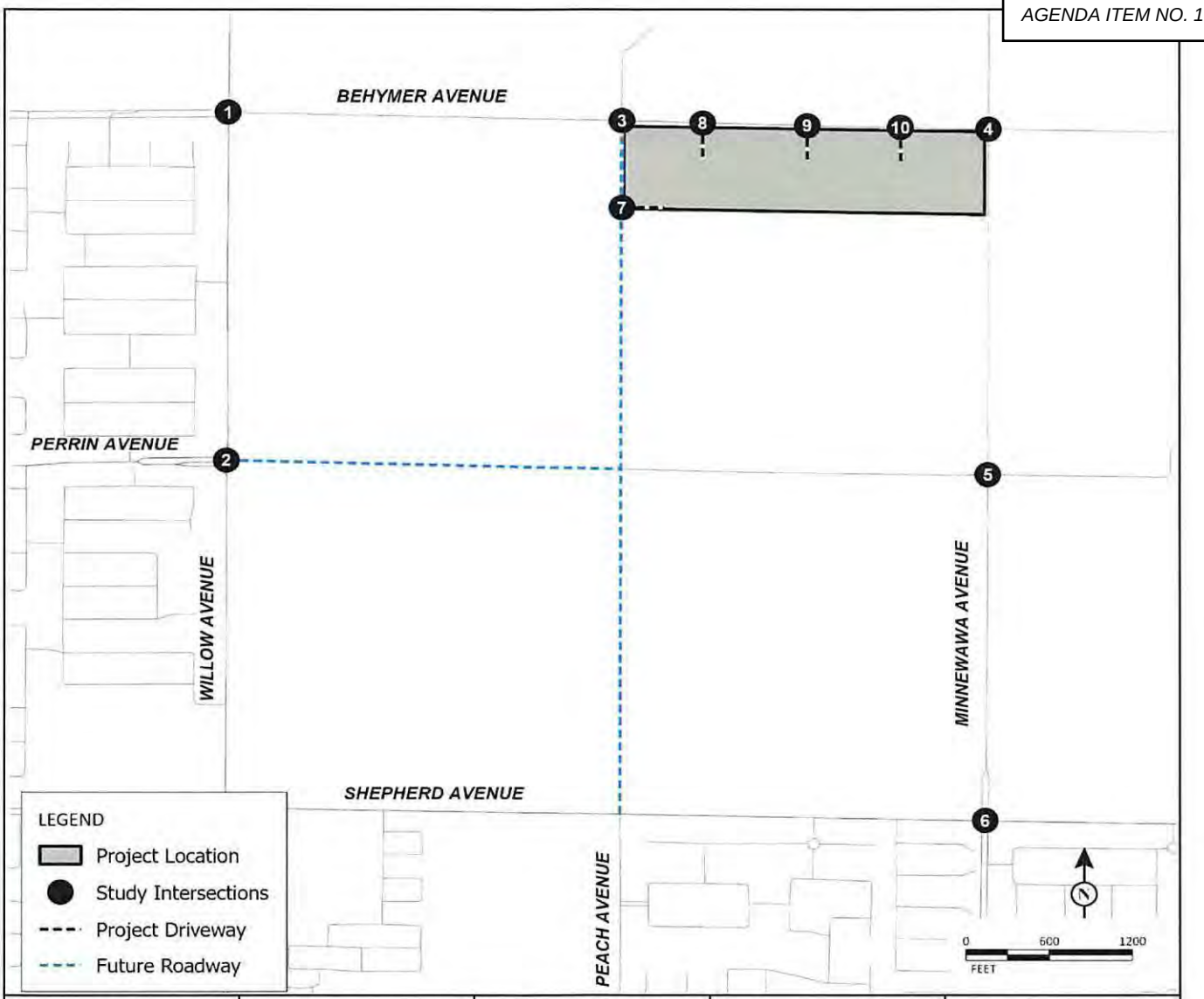



FIGURE 7

LSA

XX / YY
AM / PM Peak Hour Trips
Project Driveway
Future Roadway

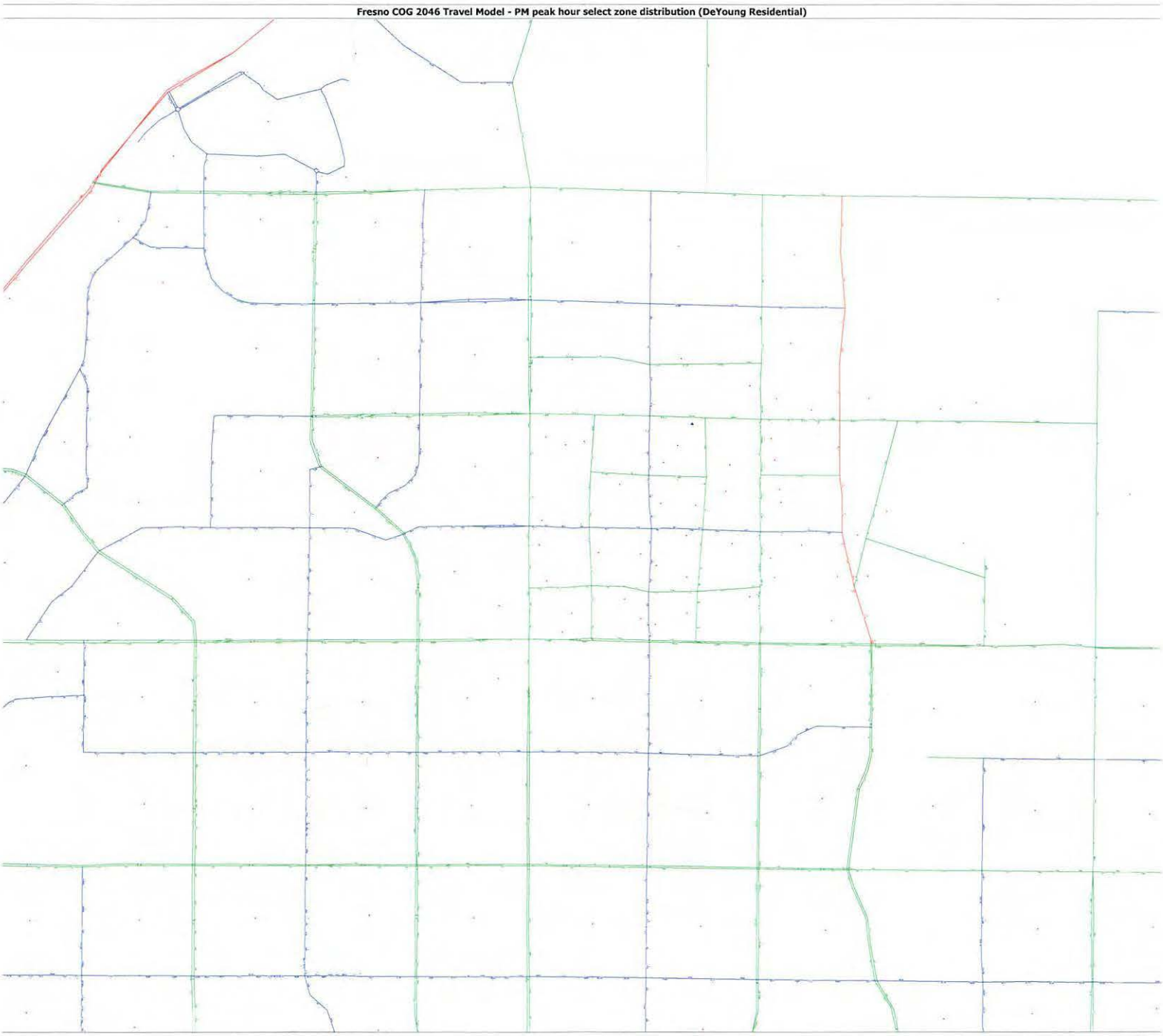
*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Cumulative Project Trip Assignment

P:\20231181 De Young Annexation\z30_Asgn_Cumul.xlsx\Figure (8/10/2024)

# APPENDIX A

# FRESNO COG ABM SELECT ZONE MODEL PLOTS


Fresno COG 2046 Travel Model - PM peak hour select zone distribution (DeYoung Residential)

# APPENDIX B

# VMT CALCULATION WORKSHEETS

LSA

## Appendix B
## VMT Calculations
## De Young Single Family Residential Development

| 2019 | De Young Single Family (Project) * | City of Clovis ** |
|---|---|---|
| Total project households | 266 | |
| Total project population (a) | 896 | |
| Percent Population traveling to outside (b) * | 7.79% | |
| Project Population traveling to outside (c=b*a) | 70 | |
| | | |
| Total Internal-Internal (II) Project VMT (d) ** | 11,132 | |
| Internal project population (e=a-c) | 826 | |
| II VMT per capita (f=d/e) | 13.5 | |
| | | |
| IX VMT per capita (g) *** | 31.5 | |
| Total IX VMT (h=g*c) | 2,199 | |
| | | |
| Total project VMT (i=d+h) | 13,331 | |
| VMT per capita (j=i/a) | 14.9 | 14.1 |

** : Obtained from "Fresno_worker_ixxifractions.dat" from model inputs. Used same percentages/values as the parent TAZ (248)*

***: Includes all tours and all sub-tours from the ABM model run for VMT estimation*

****: IX VMT per capita was estimated as weighted average for all TAZs in the CSTDM Zone 2569*

P:\20231181 De Young Annexation\vmt_summ.xlsx\Appendix A (8/12/2024)

# APPENDIX C

# TRAFFIC COUNT SHEETS AND SIGNAL TIMING SHEETS

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 11 | 47 | 5 | 63 | 6 | 12 | 9 | 27 | 7 | 44 | 10 | 61 | 8 | 19 | 22 | 49 | 200 |
| 07:15 AM | 5 | 82 | 8 | 95 | 14 | 31 | 13 | 58 | 6 | 70 | 3 | 79 | 1 | 22 | 24 | 47 | 279 |
| 07:30 AM | 6 | 132 | 9 | 147 | 12 | 65 | 34 | 111 | 29 | 106 | 7 | 142 | 9 | 32 | 58 | 99 | 499 |
| 07:45 AM | 9 | 114 | 3 | 126 | 12 | 62 | 38 | 112 | 24 | 151 | 10 | 185 | 18 | 56 | 75 | 149 | 572 |
| Total | 31 | 375 | 25 | 431 | 44 | 170 | 94 | 308 | 66 | 371 | 30 | 467 | 36 | 129 | 179 | 344 | 1550 |
| 08:00 AM | 20 | 128 | 8 | 156 | 4 | 26 | 42 | 72 | 21 | 172 | 13 | 206 | 21 | 30 | 38 | 89 | 523 |
| 08:15 AM | 20 | 170 | 23 | 213 | 11 | 18 | 22 | 51 | 30 | 194 | 4 | 228 | 34 | 22 | 36 | 92 | 584 |
| 08:30 AM | 17 | 199 | 20 | 236 | 5 | 29 | 33 | 67 | 28 | 176 | 4 | 208 | 7 | 21 | 33 | 61 | 572 |
| 08:45 AM | 13 | 130 | 3 | 146 | 8 | 30 | 42 | 80 | 22 | 143 | 9 | 174 | 1 | 23 | 27 | 51 | 451 |
| Total | 70 | 627 | 54 | 751 | 28 | 103 | 139 | 270 | 101 | 685 | 30 | 816 | 63 | 96 | 134 | 293 | 2130 |
| Grand Total | 101 | 1002 | 79 | 1182 | 72 | 273 | 233 | 578 | 167 | 1056 | 60 | 1283 | 99 | 225 | 313 | 637 | 3680 |
| Apprch % | 8.5 | 84.8 | 6.7 | | 12.5 | 47.2 | 40.3 | | 13 | 82.3 | 4.7 | | 15.5 | 35.3 | 49.1 | | |
| Total % | 2.7 | 27.2 | 2.1 | 32.1 | 2 | 7.4 | 6.3 | 15.7 | 4.5 | 28.7 | 1.6 | 34.9 | 2.7 | 6.1 | 8.5 | 17.3 | |
| Passenger Vehicles | 95 | 982 | 79 | 1156 | 71 | 268 | 229 | 568 | 158 | 1040 | 57 | 1255 | 97 | 225 | 301 | 623 | 3602 |
| % Passenger Vehicles | 94.1 | 98 | 100 | 97.8 | 98.6 | 98.2 | 98.3 | 98.3 | 94.6 | 98.5 | 95 | 97.8 | 98 | 100 | 96.2 | 97.8 | 97.9 |
| Large 2 Axle Vehicles | 4 | 16 | 0 | 20 | 0 | 5 | 0 | 5 | 9 | 12 | 1 | 22 | 1 | 0 | 12 | 13 | 60 |
| % Large 2 Axle Vehicles | 4 | 1.6 | 0 | 1.7 | 0 | 1.8 | 0 | 0.9 | 5.4 | 1.1 | 1.7 | 1.7 | 1 | 0 | 3.8 | 2 | 1.6 |
| 3 Axle Vehicles | 1 | 2 | 0 | 3 | 0 | 0 | 2 | 2 | 0 | 3 | 2 | 5 | 0 | 0 | 0 | 0 | 10 |
| % 3 Axle Vehicles | 1 | 0.2 | 0 | 0.3 | 0 | 0 | 0.9 | 0.3 | 0 | 0.3 | 3.3 | 0.4 | 0 | 0 | 0 | 0 | 0.3 |
| 4+ Axle Trucks | 1 | 2 | 0 | 3 | 1 | 0 | 2 | 3 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 8 |
| % 4+ Axle Trucks | 1 | 0.2 | 0 | 0.3 | 1.4 | 0 | 0.9 | 0.5 | 0 | 0.1 | 0 | 0.1 | 1 | 0 | 0 | 0.2 | 0.2 |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | | | | | | | | |
| 07:45 AM | 9 | 114 | 3 | 126 | **12** | **62** | 38 | **112** | 24 | 151 | 10 | 185 | 18 | **56** | **75** | **149** | 572 |
| 08:00 AM | **20** | 128 | 8 | 156 | 4 | 26 | **42** | 72 | 21 | 172 | **13** | 206 | 21 | 30 | 38 | 89 | 523 |
| 08:15 AM | 20 | 170 | **23** | 213 | 11 | 18 | 22 | 51 | **30** | **194** | 4 | **228** | **34** | 22 | 36 | 92 | **584** |
| 08:30 AM | 17 | **199** | 20 | **236** | 5 | 29 | 33 | 67 | 28 | 176 | 4 | 208 | 7 | 21 | 33 | 61 | 572 |
| Total Volume | 66 | 611 | 54 | 731 | 32 | 135 | 135 | 302 | 103 | 693 | 31 | 827 | 80 | 129 | 182 | 391 | 2251 |
| % App. Total | 9 | 83.6 | 7.4 | | 10.6 | 44.7 | 44.7 | | 12.5 | 83.8 | 3.7 | | 20.5 | 33 | 46.5 | | |
| PHF | .825 | .768 | .587 | .774 | .667 | .544 | .804 | .674 | .858 | .893 | .596 | .907 | .588 | .576 | .607 | .656 | .964 |

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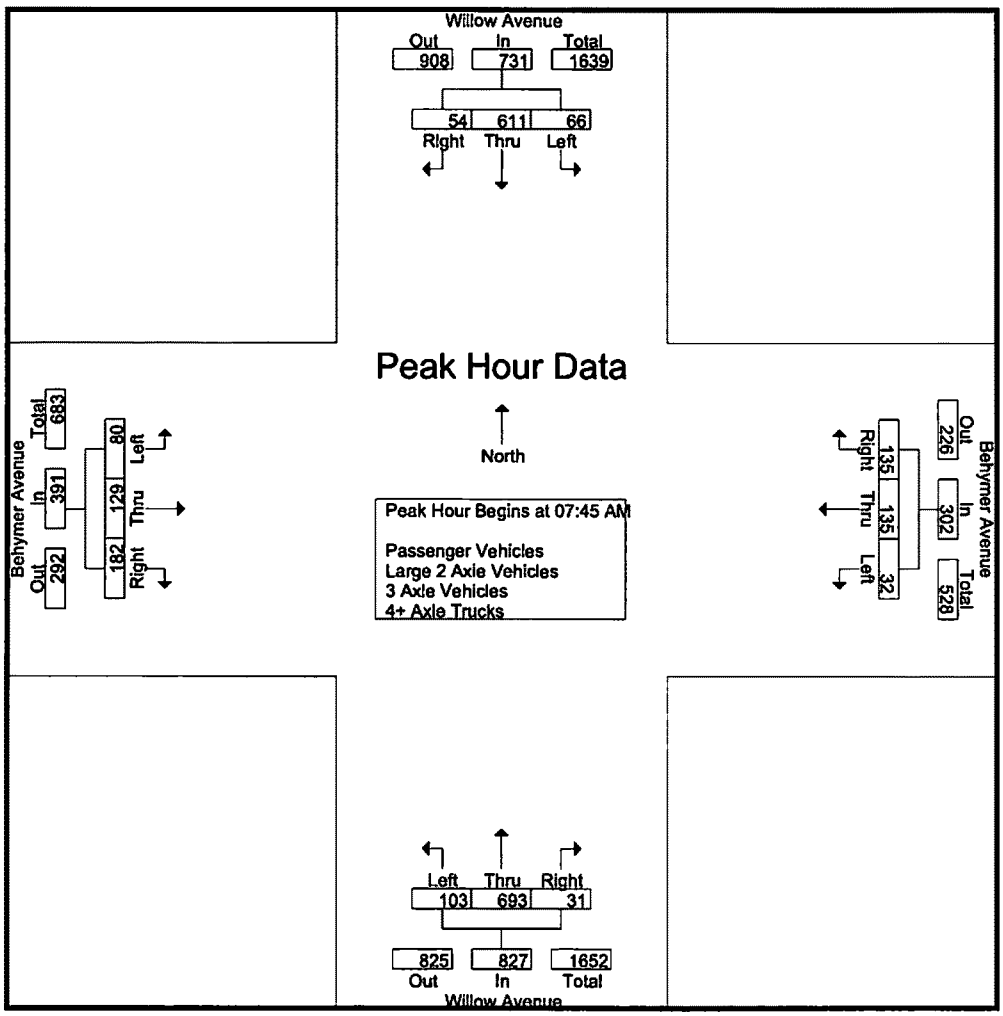
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 08:00 AM | | | | 07:15 AM | | | | 07:45 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 20 | 128 | 8 | 156 | 14 | 31 | 13 | 58 | 24 | 151 | 10 | 185 | 9 | 32 | 58 | 99 |
| +15 mins. | .20 | 170 | 23 | 213 | 12 | 65 | 34 | 111 | 21 | 172 | 13 | 206 | 18 | 56 | 75 | 149 |
| +30 mins. | 17 | 199 | 20 | 236 | 12 | 62 | 38 | 112 | 30 | 194 | 4 | 228 | 21 | 30 | 38 | 89 |
| +45 mins. | 13 | 130 | 3 | 146 | 4 | 26 | 42 | 72 | 28 | 176 | 4 | 208 | 34 | 22 | 36 | 92 |
| Total Volume | 70 | 627 | 54 | 751 | 42 | 184 | 127 | 353 | 103 | 693 | 31 | 827 | 82 | 140 | 207 | 429 |
| % App. Total | 9.3 | 83.5 | 7.2 | | 11.9 | 52.1 | 36 | | 12.5 | 83.8 | 3.7 | | 19.1 | 32.6 | 48.3 | |
| PHF | .875 | .788 | .587 | .796 | .750 | .708 | .756 | .788 | .858 | .893 | .596 | .907 | .603 | .625 | .690 | .720 |

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 11 | 45 | 5 | 61 | 6 | 11 | 8 | 25 | 5 | 43 | 9 | 57 | 8 | 19 | 22 | 49 | 192 |
| 07:15 AM | 5 | 80 | 8 | 93 | 14 | 31 | 12 | 57 | 5 | 68 | 3 | 76 | 1 | 22 | 22 | 45 | 271 |
| 07:30 AM | 6 | 131 | 9 | 146 | 12 | 64 | 33 | 109 | 28 | 104 | 7 | 139 | 9 | 32 | 57 | 98 | 492 |
| 07:45 AM | 8 | 114 | 3 | 125 | 12 | 62 | 38 | 112 | 23 | 150 | 8 | 181 | 18 | 56 | 72 | 146 | 564 |
| Total | 30 | 370 | 25 | 425 | 44 | 168 | 91 | 303 | 61 | 365 | 27 | 453 | 36 | 129 | 173 | 338 | 1519 |
| 08:00 AM | 18 | 121 | 8 | 147 | 4 | 23 | 41 | 68 | 18 | 168 | 13 | 199 | 20 | 30 | 38 | 88 | 502 |
| 08:15 AM | 18 | 165 | 23 | 206 | 10 | 18 | 22 | 50 | 30 | 191 | 4 | 225 | 33 | 22 | 33 | 88 | 569 |
| 08:30 AM | 17 | 196 | 20 | 233 | 5 | 29 | 33 | 67 | 27 | 175 | 4 | 206 | 7 | 21 | 31 | 59 | 565 |
| 08:45 AM | 12 | 130 | 3 | 145 | 8 | 30 | 42 | 80 | 22 | 141 | 9 | 172 | 1 | 23 | 26 | 50 | 447 |
| Total | 65 | 612 | 54 | 731 | 27 | 100 | 138 | 265 | 97 | 675 | 30 | 802 | 61 | 96 | 128 | 285 | 2083 |
| Grand Total | 95 | 982 | 79 | 1156 | 71 | 268 | 229 | 568 | 158 | 1040 | 57 | 1255 | 97 | 225 | 301 | 623 | 3602 |
| Apprch % | 8.2 | 84.9 | 6.8 | | 12.5 | 47.2 | 40.3 | | 12.6 | 82.9 | 4.5 | | 15.6 | 36.1 | 48.3 | | |
| Total % | 2.6 | 27.3 | 2.2 | 32.1 | 2 | 7.4 | 6.4 | 15.8 | 4.4 | 28.9 | 1.6 | 34.8 | 2.7 | 6.2 | 8.4 | 17.3 | |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | | | | | | | | |
| 07:45 AM | 8 | 114 | 3 | 125 | **12** | **62** | 38 | **112** | 23 | 150 | 8 | 181 | 18 | **56** | **72** | **146** | 564 |
| 08:00 AM | **18** | 121 | 8 | 147 | 4 | 23 | 41 | 68 | 18 | 168 | **13** | 199 | 20 | 30 | 38 | 88 | 502 |
| 08:15 AM | 18 | 165 | **23** | 206 | 10 | 18 | 22 | 50 | **30** | **191** | 4 | **225** | **33** | 22 | 33 | 88 | **569** |
| 08:30 AM | 17 | **196** | 20 | **233** | 5 | 29 | 33 | 67 | 27 | 175 | 4 | 206 | 7 | 21 | 31 | 59 | 565 |
| Total Volume | 61 | 596 | 54 | 711 | 31 | 132 | 134 | 297 | 98 | 684 | 29 | 811 | 78 | 129 | 174 | 381 | 2200 |
| % App. Total | 8.6 | 83.8 | 7.6 | | 10.4 | 44.4 | 45.1 | | 12.1 | 84.3 | 3.6 | | 20.5 | 33.9 | 45.7 | | |
| PHF | .847 | .760 | .587 | .763 | .646 | .532 | .817 | .663 | .817 | .895 | .558 | .901 | .591 | .576 | .604 | .652 | .967 |

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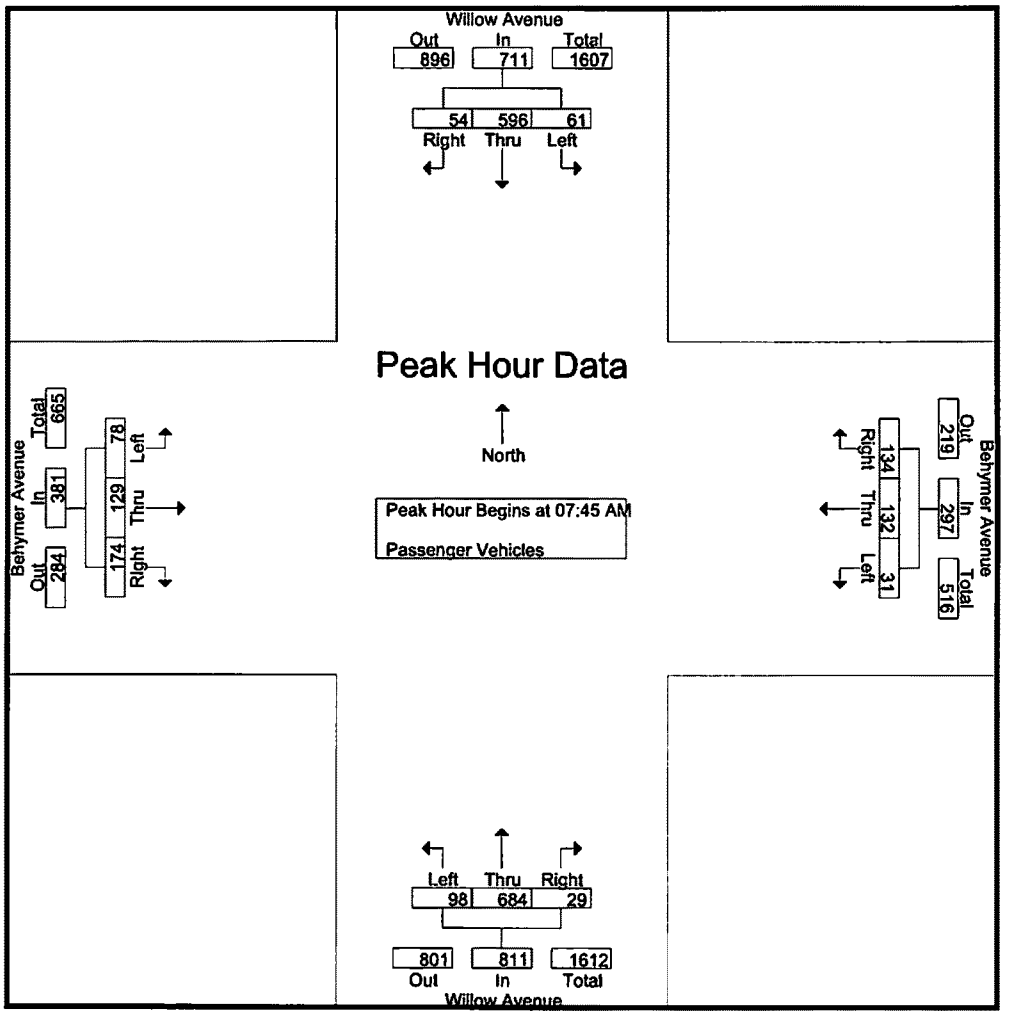
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 8 | 114 | 3 | 125 | **12** | **62** | 38 | **112** | 23 | 150 | 8 | 181 | 18 | **56** | **72** | **146** |
| +15 mins. | **18** | 121 | 8 | 147 | 4 | 23 | 41 | 68 | 18 | 168 | **13** | 199 | 20 | 30 | 38 | 88 |
| +30 mins. | 18 | 165 | **23** | 206 | 10 | 18 | 22 | 50 | **30** | **191** | 4 | **225** | **33** | 22 | 33 | 88 |
| +45 mins. | 17 | **196** | 20 | **233** | 5 | 29 | 33 | 67 | 27 | 175 | 4 | 206 | 7 | 21 | 31 | 59 |
| Total Volume | 61 | 596 | 54 | 711 | 31 | 132 | 134 | 297 | 98 | 684 | 29 | 811 | 78 | 129 | 174 | 381 |
| % App. Total | 8.6 | 83.8 | 7.6 | | 10.4 | 44.4 | 45.1 | | 12.1 | 84.3 | 3.6 | | 20.5 | 33.9 | 45.7 | |
| PHF | .847 | .760 | .587 | .763 | .646 | .532 | .817 | .663 | .817 | .895 | .558 | .901 | .591 | .576 | .604 | .652 |

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 2 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 6 |
| 07:15 AM | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 2 | 2 | 7 |
| 07:30 AM | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 1 | 5 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 3 | 3 | 5 |
| Total | 0 | 5 | 0 | 5 | 0 | 2 | 0 | 2 | 5 | 4 | 1 | 10 | 0 | 0 | 6 | 6 | 23 |
| 08:00 AM | 2 | 4 | 0 | 6 | 0 | 3 | 0 | 3 | 3 | 3 | 0 | 6 | 0 | 0 | 0 | 0 | 15 |
| 08:15 AM | 2 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 3 | 4 | 13 |
| 08:30 AM | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 2 | 2 | 7 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 2 |
| Total | 4 | 11 | 0 | 15 | 0 | 3 | 0 | 3 | 4 | 8 | 0 | 12 | 1 | 0 | 6 | 7 | 37 |
| Grand Total | 4 | 16 | 0 | 20 | 0 | 5 | 0 | 5 | 9 | 12 | 1 | 22 | 1 | 0 | 12 | 13 | 60 |
| Apprch % | 20 | 80 | 0 | | 0 | 100 | 0 | | 40.9 | 54.5 | 4.5 | | 7.7 | 0 | 92.3 | | |
| Total % | 6.7 | 26.7 | 0 | 33.3 | 0 | 8.3 | 0 | 8.3 | 15 | 20 | 1.7 | 36.7 | 1.7 | 0 | 20 | 21.7 | |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | | | | | | | | |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 3 | 3 | 5 |
| 08:00 AM | 2 | 4 | 0 | 6 | 0 | 3 | 0 | 3 | 3 | 3 | 0 | 6 | 0 | 0 | 0 | 0 | 15 |
| 08:15 AM | 2 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 3 | 4 | 13 |
| 08:30 AM | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 2 | 2 | 7 |
| Total Volume | 4 | 11 | 0 | 15 | 0 | 3 | 0 | 3 | 5 | 8 | 0 | 13 | 1 | 0 | 8 | 9 | 40 |
| % App. Total | 26.7 | 73.3 | 0 | | 0 | 100 | 0 | | 38.5 | 61.5 | 0 | | 11.1 | 0 | 88.9 | | |
| PHF | .500 | .688 | .000 | .625 | .000 | .250 | .000 | .250 | .417 | .667 | .000 | .542 | .250 | .000 | .667 | .563 | .667 |

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City of Clovis
N/S: Willow Avenue
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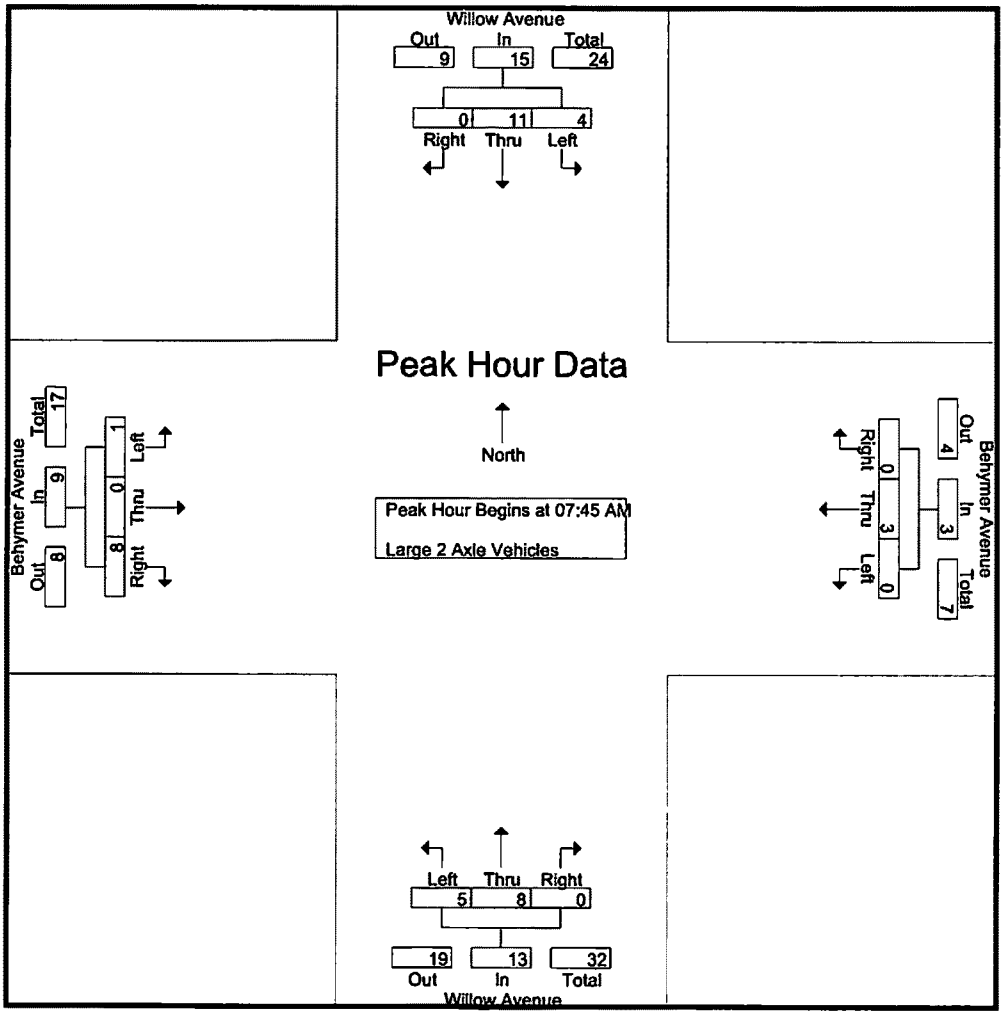
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 3 | 3 |
| +15 mins. | 2 | 4 | 0 | 6 | 0 | 3 | 0 | 3 | 3 | 3 | 0 | 6 | 0 | 0 | 0 | 0 |
| +30 mins. | 2 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 3 | 4 |
| +45 mins. | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 2 | 2 |
| Total Volume | 4 | 11 | 0 | 15 | 0 | 3 | 0 | 3 | 5 | 8 | 0 | 13 | 1 | 0 | 8 | 9 |
| % App. Total | 26.7 | 73.3 | 0 | | 0 | 100 | 0 | | 38.5 | 61.5 | 0 | | 11.1 | 0 | 88.9 | |
| PHF | .500 | .688 | .000 | .625 | .000 | .250 | .000 | .250 | .417 | .667 | .000 | .542 | .250 | .000 | .667 | .563 |

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 2 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 5 |
| 08:00 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 08:15 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| Total | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 5 |
| Grand Total | 1 | 2 | 0 | 3 | 0 | 0 | 2 | 2 | 0 | 3 | 2 | 5 | 0 | 0 | 0 | 0 | 10 |
| Apprch % | 33.3 | 66.7 | 0 | | 0 | 0 | 100 | | 0 | 60 | 40 | | 0 | 0 | 0 | | |
| Total % | 10 | 20 | 0 | 30 | 0 | 0 | 20 | 20 | 0 | 30 | 20 | 50 | 0 | 0 | 0 | 0 | |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | | | | | | | | |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **2** | **2** | 0 | 0 | 0 | 0 | **2** |
| 08:00 AM | 0 | 1 | 0 | **1** | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 08:15 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 5 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 33.3 | 66.7 | | 0 | 0 | 0 | | |
| PHF | .000 | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .000 | .250 | .250 | .375 | .000 | .000 | .000 | .000 | .625 |

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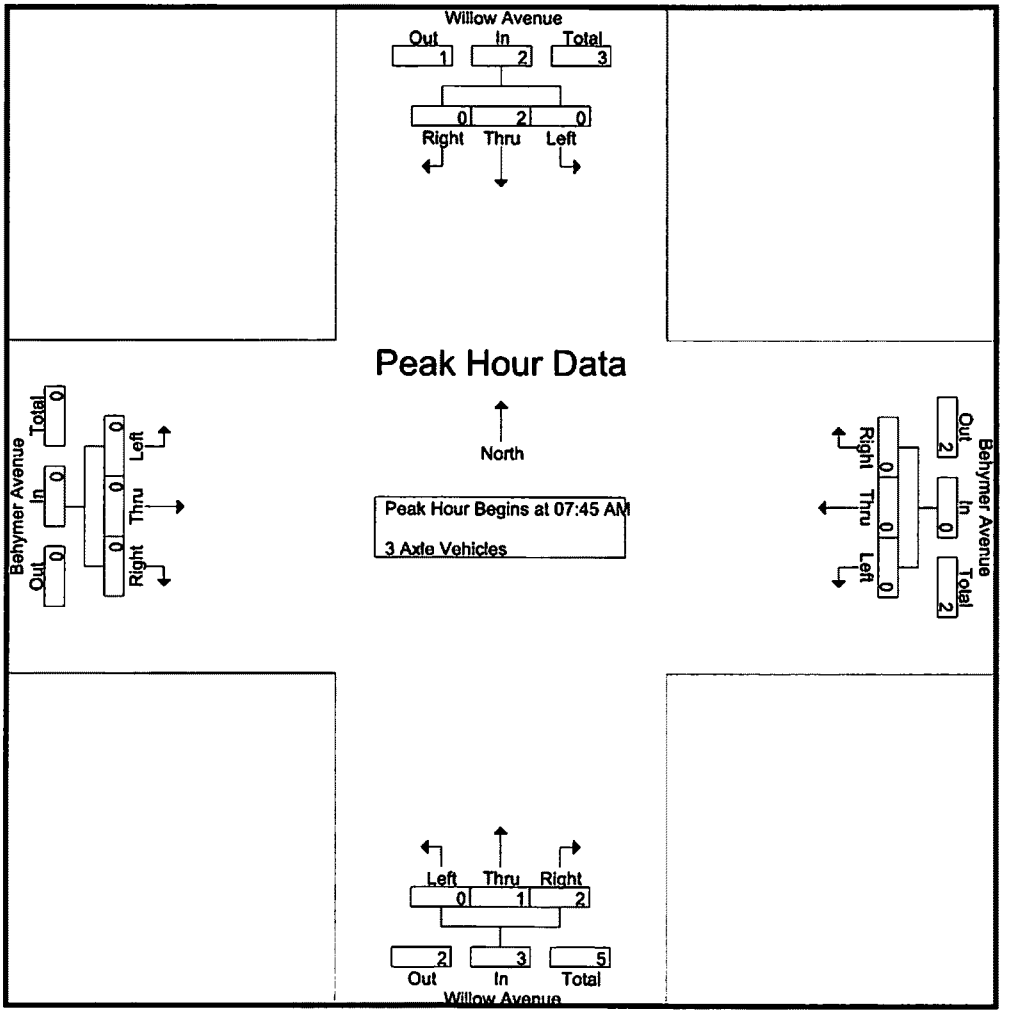
File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 33.3 | 66.7 | | 0 | 0 | 0 | |
| PHF | .000 | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .000 | .250 | .250 | .375 | .000 | .000 | .000 | .000 |

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Wil_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 08:00 AM | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 4 |
| 08:15 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 2 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 5 |
| Grand Total | 1 | 2 | 0 | 3 | 1 | 0 | 2 | 3 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 8 |
| Apprch % | 33.3 | 66.7 | 0 | | 33.3 | 0 | 66.7 | | 0 | 100 | 0 | | 100 | 0 | 0 | | |
| Total % | 12.5 | 25 | 0 | 37.5 | 12.5 | 0 | 25 | 37.5 | 0 | 12.5 | 0 | 12.5 | 12.5 | 0 | 0 | 12.5 | |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | | | | | | | | |
| 07:45 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:00 AM | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 4 |
| 08:15 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 1 | 2 | 0 | 3 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 6 |
| % App. Total | 33.3 | 66.7 | 0 | | 50 | 0 | 50 | | 0 | 0 | 0 | | 100 | 0 | 0 | | |
| PHF | .250 | .250 | .000 | .375 | .250 | .000 | .250 | .500 | .000 | .000 | .000 | .000 | .250 | .000 | .000 | .250 | .375 |

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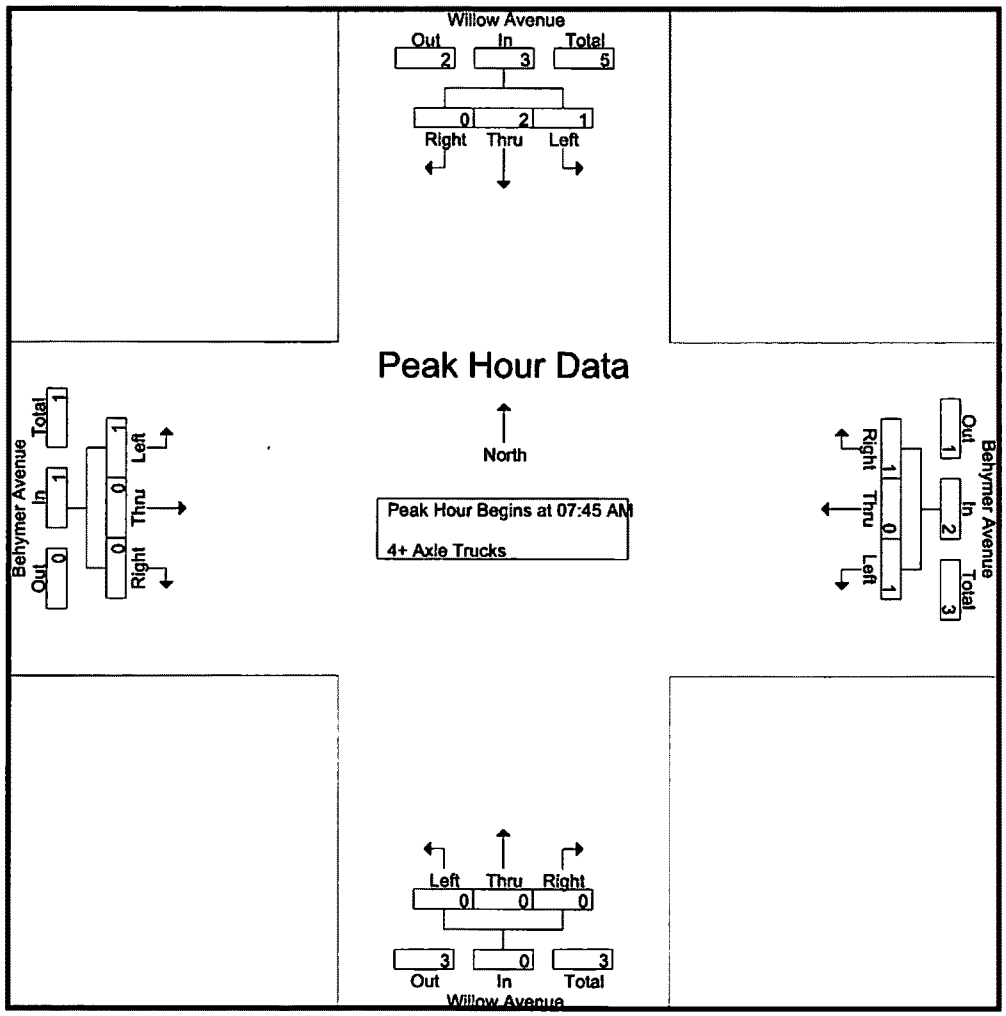
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| +30 mins. | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 1 | 2 | 0 | 3 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| % App. Total | 33.3 | 66.7 | 0 | | 50 | 0 | 50 | | 0 | 0 | 0 | | 100 | 0 | 0 | |
| PHF | .250 | .250 | .000 | .375 | .250 | .000 | .250 | .500 | .000 | .000 | .000 | .000 | .250 | .000 | .000 | .250 |

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Wil_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 37 | 127 | 3 | 167 | 17 | 34 | 21 | 72 | 28 | 138 | 15 | 181 | 9 | 20 | 36 | 65 | 485 |
| 04:15 PM | 21 | 119 | 3 | 143 | 15 | 30 | 14 | 59 | 18 | 114 | 14 | 146 | 5 | 20 | 20 | 45 | 393 |
| 04:30 PM | 40 | 145 | 11 | 196 | 7 | 29 | 18 | 54 | 26 | 157 | 18 | 201 | 5 | 18 | 22 | 45 | 496 |
| 04:45 PM | 20 | 123 | 8 | 151 | 10 | 30 | 20 | 60 | 23 | 139 | 16 | 178 | 4 | 18 | 33 | 55 | 444 |
| Total | 118 | 514 | 25 | 657 | 49 | 123 | 73 | 245 | 95 | 548 | 63 | 706 | 23 | 76 | 111 | 210 | 1818 |
| 05:00 PM | 37 | 170 | 14 | 221 | 9 | 37 | 21 | 67 | 24 | 162 | 14 | 200 | 4 | 40 | 39 | 83 | 571 |
| 05:15 PM | 26 | 121 | 5 | 152 | 17 | 38 | 25 | 80 | 35 | 169 | 15 | 219 | 4 | 23 | 28 | 55 | 506 |
| 05:30 PM | 18 | 144 | 13 | 175 | 13 | 25 | 34 | 72 | 25 | 182 | 14 | 221 | 7 | 25 | 30 | 62 | 530 |
| 05:45 PM | 14 | 125 | 8 | 147 | 16 | 38 | 39 | 93 | 35 | 218 | 11 | 264 | 6 | 16 | 24 | 46 | 550 |
| Total | 95 | 560 | 40 | 695 | 55 | 138 | 119 | 312 | 119 | 731 | 54 | 904 | 21 | 104 | 121 | 246 | 2157 |
| Grand Total | 213 | 1074 | 65 | 1352 | 104 | 261 | 192 | 557 | 214 | 1279 | 117 | 1610 | 44 | 180 | 232 | 456 | 3975 |
| Apprch % | 15.8 | 79.4 | 4.8 | | 18.7 | 46.9 | 34.5 | | 13.3 | 79.4 | 7.3 | | 9.6 | 39.5 | 50.9 | | |
| Total % | 5.4 | 27 | 1.6 | 34 | 2.6 | 6.6 | 4.8 | 14 | 5.4 | 32.2 | 2.9 | 40.5 | 1.1 | 4.5 | 5.8 | 11.5 | |
| Passenger Vehicles | 212 | 1067 | 65 | 1344 | 104 | 261 | 190 | 555 | 210 | 1271 | 116 | 1597 | 44 | 174 | 230 | 448 | 3944 |
| % Passenger Vehicles | 99.5 | 99.3 | 100 | 99.4 | 100 | 100 | 99 | 99.6 | 98.1 | 99.4 | 99.1 | 99.2 | 100 | 96.7 | 99.1 | 98.2 | 99.2 |
| Large 2 Axle Vehicles | 1 | 6 | 0 | 7 | 0 | 0 | 2 | 2 | 4 | 4 | 1 | 9 | 0 | 6 | 2 | 8 | 26 |
| % Large 2 Axle Vehicles | 0.5 | 0.6 | 0 | 0.5 | 0 | 0 | 1 | 0.4 | 1.9 | 0.3 | 0.9 | 0.6 | 0 | 3.3 | 0.9 | 1.8 | 0.7 |
| 3 Axle Vehicles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| % 3 Axle Vehicles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.2 | 0 | 0.2 | 0 | 0 | 0 | 0 | 0.1 |
| 4+ Axle Trucks | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| % 4+ Axle Trucks | 0 | 0.1 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0.1 |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | **37** | **170** | 14 | **221** | 9 | 37 | 21 | 67 | 24 | 162 | 14 | 200 | 4 | **40** | **39** | **83** | **571** |
| 05:15 PM | 26 | 121 | 5 | 152 | 17 | **38** | 25 | 80 | **35** | 169 | **15** | 219 | 4 | 23 | 28 | 55 | 506 |
| 05:30 PM | 18 | 144 | 13 | 175 | 13 | 25 | 34 | 72 | 25 | 182 | 14 | 221 | 7 | 25 | 30 | 62 | 530 |
| 05:45 PM | 14 | 125 | 8 | 147 | 16 | 38 | **39** | **93** | 35 | **218** | 11 | **264** | 6 | 16 | 24 | 46 | 550 |
| Total Volume | 95 | 560 | 40 | 695 | 55 | 138 | 119 | 312 | 119 | 731 | 54 | 904 | 21 | 104 | 121 | 246 | 2157 |
| % App. Total | 13.7 | 80.6 | 5.8 | | 17.6 | 44.2 | 38.1 | | 13.2 | 80.9 | 6 | | 8.5 | 42.3 | 49.2 | | |
| PHF | .642 | .824 | .714 | .786 | .809 | .908 | .763 | .839 | .850 | .838 | .900 | .856 | .750 | .650 | .776 | .741 | .944 |

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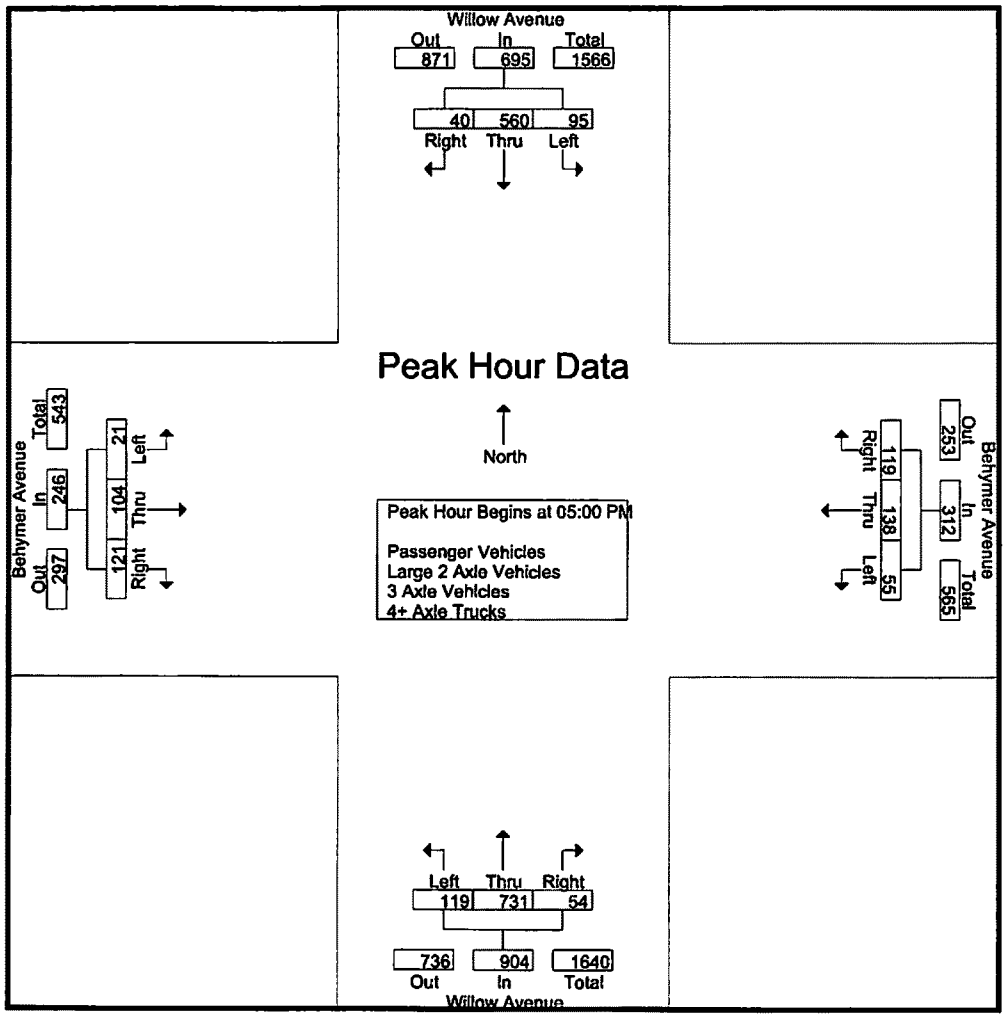
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 04:45 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | **40** | 145 | 11 | 196 | 9 | 37 | 21 | 67 | 24 | 162 | 14 | 200 | 4 | 18 | 33 | 55 |
| +15 mins. | 20 | 123 | 8 | 151 | **17** | **38** | 25 | 80 | **35** | 169 | **15** | 219 | 4 | **40** | **39** | **83** |
| +30 mins. | 37 | **170** | 14 | **221** | 13 | 25 | 34 | 72 | 25 | 182 | 14 | 221 | 4 | 23 | 28 | 55 |
| +45 mins. | 26 | 121 | 5 | 152 | 16 | 38 | **39** | **93** | 35 | **218** | 11 | **264** | 7 | 25 | 30 | 62 |
| Total Volume | 123 | 559 | 38 | 720 | 55 | 138 | 119 | 312 | 119 | 731 | 54 | 904 | 19 | 106 | 130 | 255 |
| % App. Total | 17.1 | 77.6 | 5.3 | | 17.6 | 44.2 | 38.1 | | 13.2 | 80.9 | 6 | | 7.5 | 41.6 | 51 | |
| PHF | .769 | .822 | .679 | .814 | .809 | .908 | .763 | .839 | .850 | .838 | .900 | .856 | .679 | .663 | .833 | .768 |

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 37 | 125 | 3 | 165 | 17 | 34 | 21 | 72 | 28 | 137 | 15 | 180 | 9 | 19 | 36 | 64 | 481 |
| 04:15 PM | 20 | 118 | 3 | 141 | 15 | 30 | 14 | 59 | 17 | 113 | 14 | 144 | 5 | 19 | 19 | 43 | 387 |
| 04:30 PM | 40 | 144 | 11 | 195 | 7 | 29 | 18 | 54 | 25 | 157 | 17 | 199 | 5 | 18 | 22 | 45 | 493 |
| 04:45 PM | 20 | 122 | 8 | 150 | 10 | 30 | 18 | 58 | 23 | 138 | 16 | 177 | 4 | 18 | 33 | 55 | 440 |
| Total | 117 | 509 | 25 | 651 | 49 | 123 | 71 | 243 | 93 | 545 | 62 | 700 | 23 | 74 | 110 | 207 | 1801 |
| 05:00 PM | 37 | 169 | 14 | 220 | 9 | 37 | 21 | 67 | 24 | 160 | 14 | 198 | 4 | 37 | 38 | 79 | 564 |
| 05:15 PM | 26 | 121 | 5 | 152 | 17 | 38 | 25 | 80 | 34 | 167 | 15 | 216 | 4 | 23 | 28 | 55 | 503 |
| 05:30 PM | 18 | 143 | 13 | 174 | 13 | 25 | 34 | 72 | 25 | 181 | 14 | 220 | 7 | 25 | 30 | 62 | 528 |
| 05:45 PM | 14 | 125 | 8 | 147 | 16 | 38 | 39 | 93 | 34 | 218 | 11 | 263 | 6 | 15 | 24 | 45 | 548 |
| Total | 95 | 558 | 40 | 693 | 55 | 138 | 119 | 312 | 117 | 726 | 54 | 897 | 21 | 100 | 120 | 241 | 2143 |
| Grand Total | 212 | 1067 | 65 | 1344 | 104 | 261 | 190 | 555 | 210 | 1271 | 116 | 1597 | 44 | 174 | 230 | 448 | 3944 |
| Apprch % | 15.8 | 79.4 | 4.8 | | 18.7 | 47 | 34.2 | | 13.1 | 79.6 | 7.3 | | 9.8 | 38.8 | 51.3 | | |
| Total % | 5.4 | 27.1 | 1.6 | 34.1 | 2.6 | 6.6 | 4.8 | 14.1 | 5.3 | 32.2 | 2.9 | 40.5 | 1.1 | 4.4 | 5.8 | 11.4 | |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | **37** | **169** | **14** | **220** | 9 | 37 | 21 | 67 | 24 | 160 | 14 | 198 | 4 | **37** | **38** | **79** | **564** |
| 05:15 PM | 26 | 121 | 5 | 152 | 17 | **38** | 25 | 80 | **34** | 167 | **15** | 216 | 4 | 23 | 28 | 55 | 503 |
| 05:30 PM | 18 | 143 | 13 | 174 | 13 | 25 | 34 | 72 | 25 | 181 | 14 | 220 | **7** | 25 | 30 | 62 | 528 |
| 05:45 PM | 14 | 125 | 8 | 147 | 16 | 38 | **39** | **93** | 34 | **218** | 11 | **263** | 6 | 15 | 24 | 45 | 548 |
| Total Volume | 95 | 558 | 40 | 693 | 55 | 138 | 119 | 312 | 117 | 726 | 54 | 897 | 21 | 100 | 120 | 241 | 2143 |
| % App. Total | 13.7 | 80.5 | 5.8 | | 17.6 | 44.2 | 38.1 | | 13 | 80.9 | 6 | | 8.7 | 41.5 | 49.8 | | |
| PHF | .642 | .825 | .714 | .788 | .809 | .908 | .763 | .839 | .860 | .833 | .900 | .853 | .750 | .676 | .789 | .763 | .950 |

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City of Clovis
N/S: Willow Avenue
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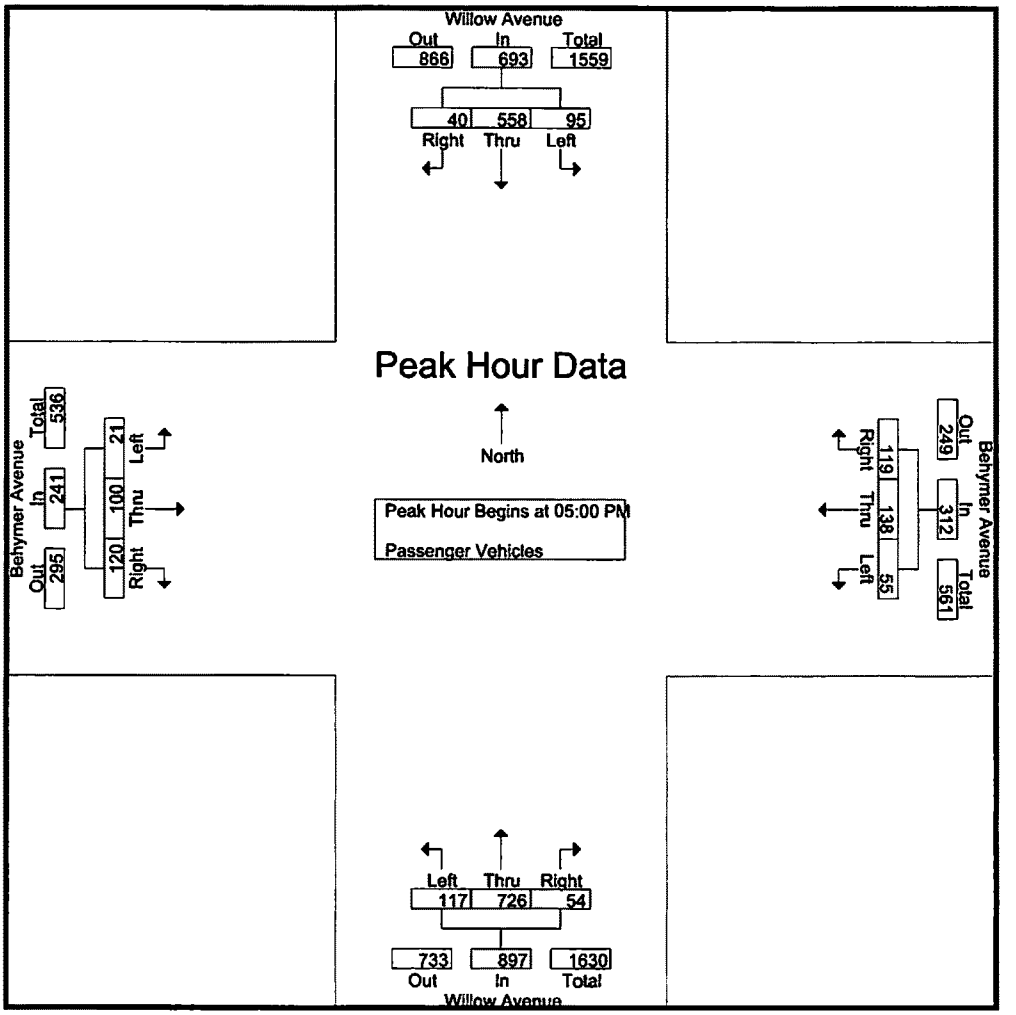
File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 37 | 169 | 14 | 220 | 9 | 37 | 21 | 67 | 24 | 160 | 14 | 198 | 4 | 37 | 38 | 79 |
| +15 mins. | 26 | 121 | 5 | 152 | 17 | 38 | 25 | 80 | 34 | 167 | 15 | 216 | 4 | 23 | 28 | 55 |
| +30 mins. | 18 | 143 | 13 | 174 | 13 | 25 | 34 | 72 | 25 | 181 | 14 | 220 | 7 | 25 | 30 | 62 |
| +45 mins. | 14 | 125 | 8 | 147 | 16 | 38 | 39 | 93 | 34 | 218 | 11 | 263 | 6 | 15 | 24 | 45 |
| Total Volume | 95 | 558 | 40 | 693 | 55 | 138 | 119 | 312 | 117 | 726 | 54 | 897 | 21 | 100 | 120 | 241 |
| % App. Total | 13.7 | 80.5 | 5.8 | | 17.6 | 44.2 | 38.1 | | 13 | 80.9 | 6 | | 8.7 | 41.5 | 49.8 | |
| PHF | .642 | .825 | .714 | .788 | .809 | .908 | .763 | .839 | .860 | .833 | .900 | .853 | .750 | .676 | .789 | .763 |

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 4 |
| 04:15 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 1 | 2 | 5 |
| 04:30 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 3 |
| 04:45 PM | 0 | 1 | 0 | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Total | 1 | 4 | 0 | 5 | 0 | 0 | 2 | 2 | 2 | 2 | 1 | 5 | 0 | 2 | 1 | 3 | 15 |
| 05:00 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 1 | 4 | 6 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 05:30 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| Total | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 | 0 | 4 | 1 | 5 | 11 |
| Grand Total | 1 | 6 | 0 | 7 | 0 | 0 | 2 | 2 | 4 | 4 | 1 | 9 | 0 | 6 | 2 | 8 | 26 |
| Apprch % | 14.3 | 85.7 | 0 | | 0 | 0 | 100 | | 44.4 | 44.4 | 11.1 | | 0 | 75 | 25 | | |
| Total % | 3.8 | 23.1 | 0 | 26.9 | 0 | 0 | 7.7 | 7.7 | 15.4 | 15.4 | 3.8 | 34.6 | 0 | 23.1 | 7.7 | 30.8 | |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | **1** | 0 | **1** | 0 | 0 | 0 | 0 | 0 | **1** | 0 | **1** | 0 | **3** | **1** | **4** | **6** |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | **2** | 0 | 0 | 0 | 0 | 2 |
| 05:30 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| Total Volume | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 | 0 | 4 | 1 | 5 | 11 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 50 | 50 | 0 | | 0 | 80 | 20 | | |
| PHF | .000 | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .500 | .500 | .000 | .500 | .000 | .333 | .250 | .313 | .458 |

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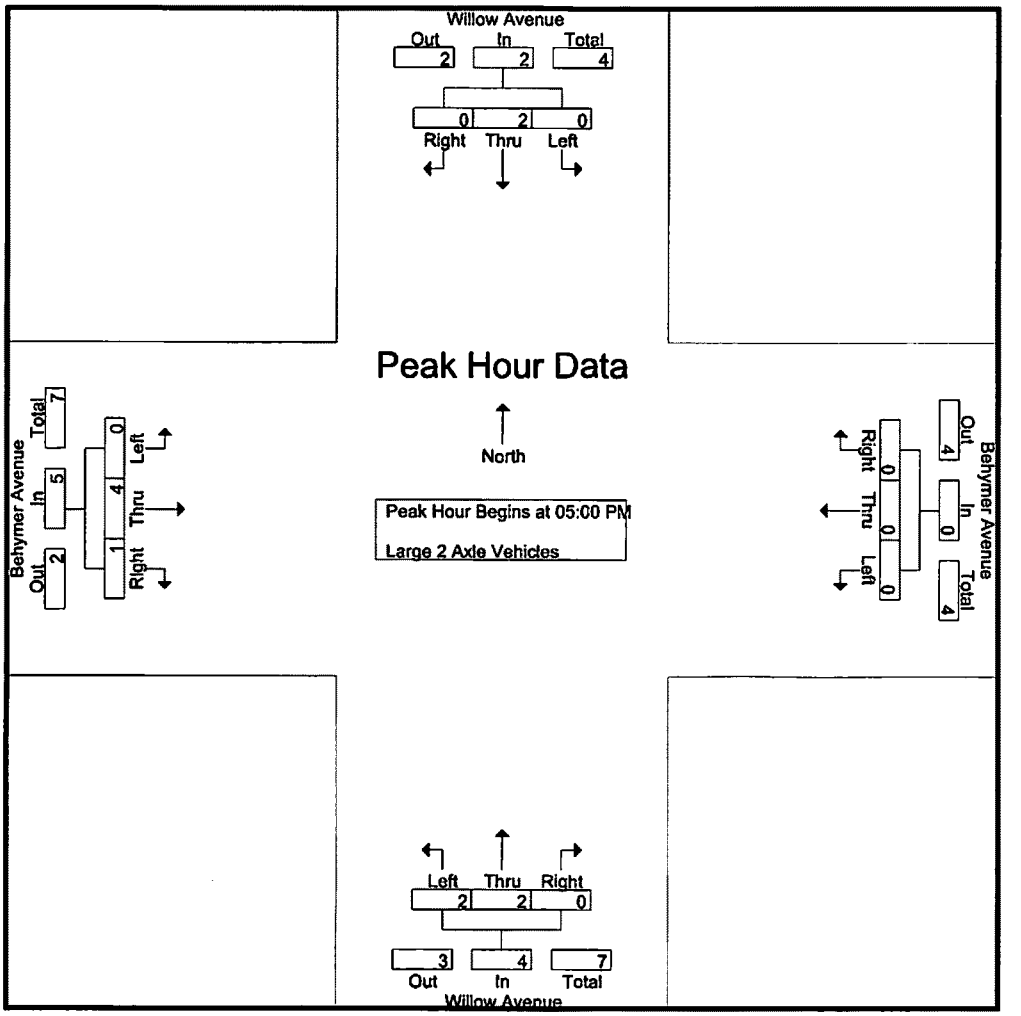
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 1 | 4 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| Total Volume | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 | 0 | 4 | 1 | 5 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 50 | 50 | 0 | | 0 | 80 | 20 | |
| PHF | .000 | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .500 | .500 | .000 | .500 | .000 | .333 | .250 | .313 |

Counts Unlimited, Inc.
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Corona, CA 92878
(951) 268-6268

City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| Apprch % | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | | |
| Total % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| % App. Total | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .500 |

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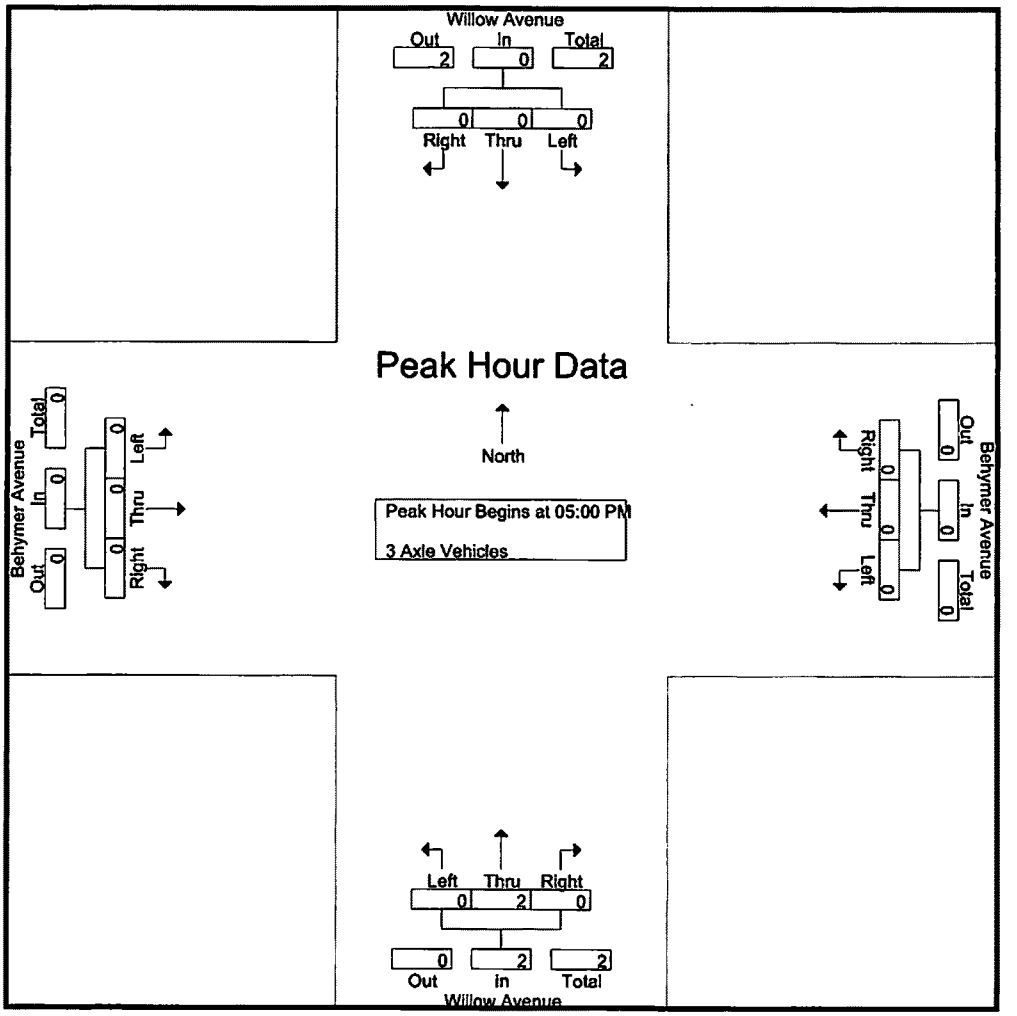
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .500 | .000 | .500 | .000 | .000 | .000 | .000 |

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Grand Total | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| Apprch % | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | | |
| Total % | 0 | 50 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 50 | 0 | 50 | 0 | 0 | 0 | 0 | |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| % App. Total | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .000 | .000 | .000 | .250 |

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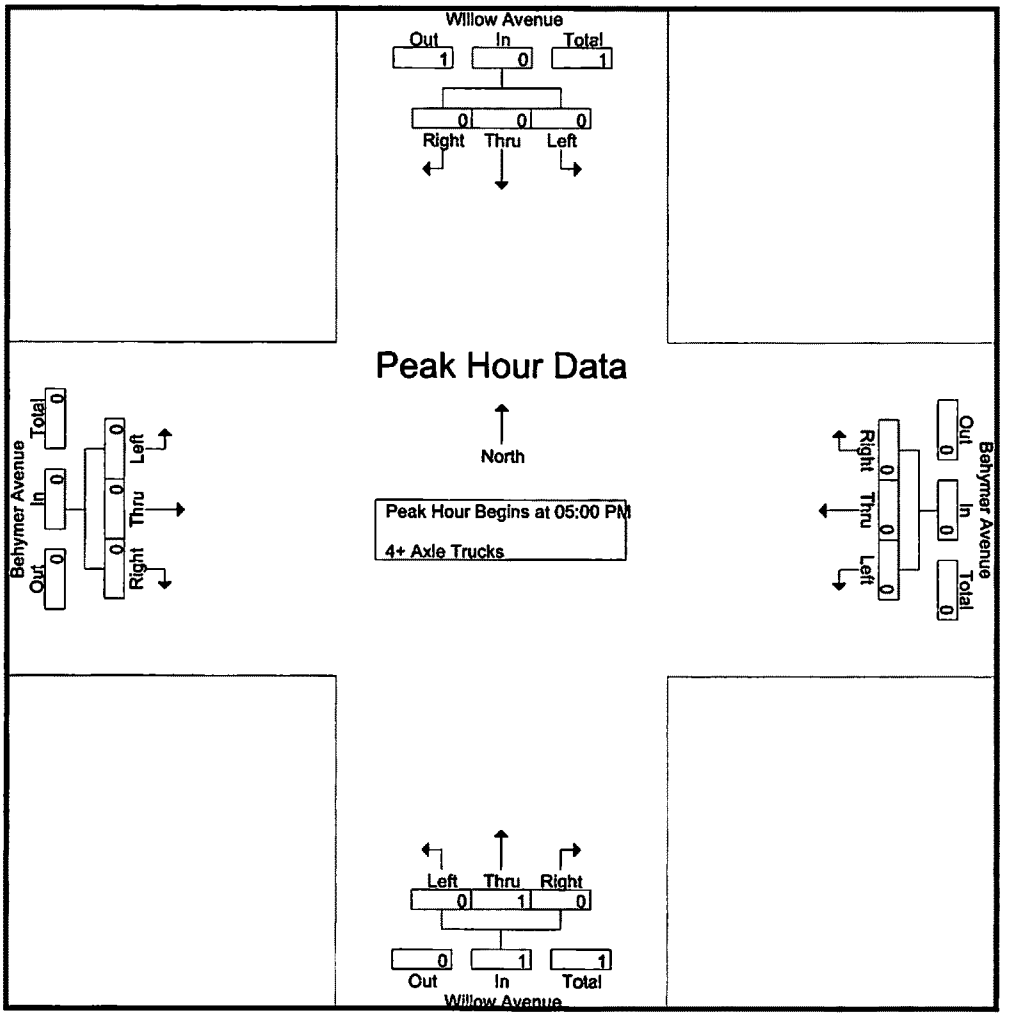
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .000 | .000 | .000 |

Location: Clovis
N/S: Willow Avenue
E/W: Behymer Avenue

Date: 3/6/2024
Day: Wednesday

**PEDESTRIANS**

| | North Leg<br>Willow Avenue<br>Pedestrians | East Leg<br>Behymer Avenue<br>Pedestrians | South Leg<br>Willow Avenue<br>Pedestrians | West Leg<br>Behymer Avenue<br>Pedestrians | |
|---|---|---|---|---|---|
| 7:00 AM | 0 | 0 | 0 | 1 | 1 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 1 | 1 |
| 7:45 AM | 0 | 0 | 0 | 1 | 1 |
| 8:00 AM | 0 | 0 | 0 | 4 | 4 |
| 8:15 AM | 0 | 0 | 0 | 2 | 2 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 9 | 9 |

| | North Leg<br>Willow Avenue<br>Pedestrians | East Leg<br>Behymer Avenue<br>Pedestrians | South Leg<br>Willow Avenue<br>Pedestrians | West Leg<br>Behymer Avenue<br>Pedestrians | |
|---|---|---|---|---|---|
| 4:00 PM | 0 | 0 | 0 | 1 | 1 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 1 | 1 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 2 | 2 |

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951-268-6268

Location: Clovis
N/S: Willow Avenue
E/W: Behymer Avenue

Date: 3/6/2024
Day: Wednesday

**BICYCLES**

| | Southbound Willow Avenue | | | Westbound Behymer Avenue | | | Northbound Willow Avenue | | | Eastbound Behymer Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 3 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 5 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 2 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 4 | 0 | 1 | 16 |

| | Southbound Willow Avenue | | | Westbound Behymer Avenue | | | Northbound Willow Avenue | | | Eastbound Behymer Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 4:00 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:15 PM | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 4:45 PM | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 5 |
| 5:00 PM | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:15 PM | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| TOTAL VOLUMES: | 0 | 12 | 1 | 0 | 0 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 20 |

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 07:00 AM | 73 | 6 | 79 | 24 | 45 | 69 | 13 | 47 | 60 | 208 |
| 07:15 AM | 124 | 10 | 134 | 22 | 84 | 106 | 10 | 56 | 66 | 306 |
| 07:30 AM | 177 | 21 | 198 | 46 | 108 | 154 | 29 | 69 | 98 | 450 |
| 07:45 AM | 181 | 22 | 203 | 24 | 170 | 194 | 29 | 59 | 88 | 485 |
| Total | 555 | 59 | 614 | 116 | 407 | 523 | 81 | 231 | 312 | 1449 |
| 08:00 AM | 171 | 16 | 187 | 29 | 165 | 194 | 56 | 29 | 85 | 466 |
| 08:15 AM | 181 | 27 | 208 | 16 | 168 | 184 | 51 | 46 | 97 | 489 |
| 08:30 AM | 225 | 34 | 259 | 19 | 182 | 201 | 29 | 33 | 62 | 522 |
| 08:45 AM | 159 | 12 | 171 | 29 | 149 | 178 | 25 | 25 | 50 | 399 |
| Total | 736 | 89 | 825 | 93 | 664 | 757 | 161 | 133 | 294 | 1876 |
| Grand Total | 1291 | 148 | 1439 | 209 | 1071 | 1280 | 242 | 364 | 606 | 3325 |
| Apprch % | 89.7 | 10.3 | | 16.3 | 83.7 | | 39.9 | 60.1 | | |
| Total % | 38.8 | 4.5 | 43.3 | 6.3 | 32.2 | 38.5 | 7.3 | 10.9 | 18.2 | |
| Passenger Vehicles | 1258 | 147 | 1405 | 208 | 1046 | 1254 | 239 | 358 | 597 | 3256 |
| % Passenger Vehicles | 97.4 | 99.3 | 97.6 | 99.5 | 97.7 | 98 | 98.8 | 98.4 | 98.5 | 97.9 |
| Large 2 Axle Vehicles | 28 | 1 | 29 | 0 | 19 | 19 | 2 | 4 | 6 | 54 |
| % Large 2 Axle Vehicles | 2.2 | 0.7 | 2 | 0 | 1.8 | 1.5 | 0.8 | 1.1 | 1 | 1.6 |
| 3 Axle Vehicles | 3 | 0 | 3 | 1 | 5 | 6 | 1 | 1 | 2 | 11 |
| % 3 Axle Vehicles | 0.2 | 0 | 0.2 | 0.5 | 0.5 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 |
| 4+ Axle Trucks | 2 | 0 | 2 | 0 | 1 | 1 | 0 | 1 | 1 | 4 |
| % 4+ Axle Trucks | 0.2 | 0 | 0.1 | 0 | 0.1 | 0.1 | 0 | 0.3 | 0.2 | 0.1 |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | |
| 07:45 AM | 181 | 22 | 203 | 24 | 170 | 194 | 29 | **59** | 88 | 485 |
| 08:00 AM | 171 | 16 | 187 | **29** | 165 | 194 | **56** | 29 | 85 | 466 |
| 08:15 AM | 181 | 27 | 208 | 16 | 168 | 184 | 51 | 46 | **97** | 489 |
| 08:30 AM | **225** | **34** | **259** | 19 | **182** | **201** | 29 | 33 | 62 | **522** |
| Total Volume | 758 | 99 | 857 | 88 | 685 | 773 | 165 | 167 | 332 | 1962 |
| % App. Total | 88.4 | 11.6 | | 11.4 | 88.6 | | 49.7 | 50.3 | | |
| PHF | .842 | .728 | .827 | .759 | .941 | .961 | .737 | .708 | .856 | .940 |

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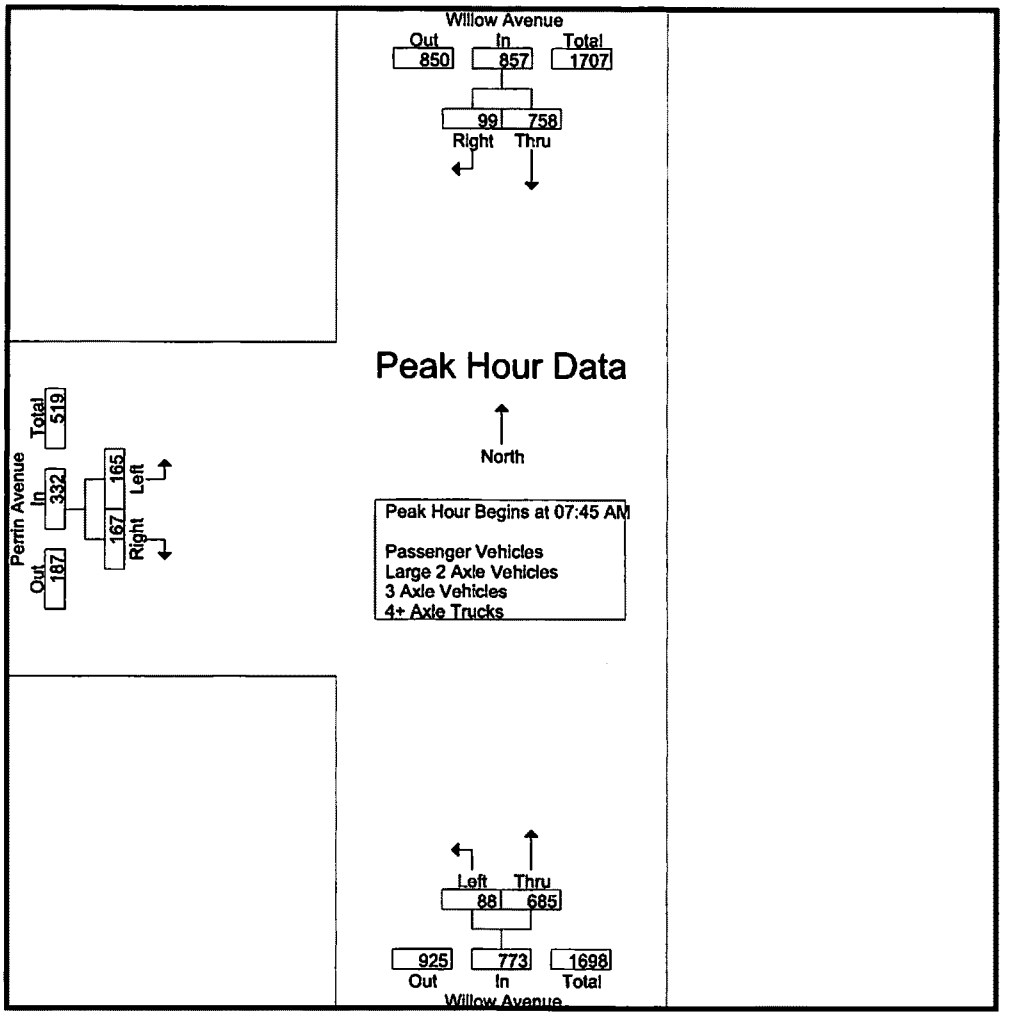
City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | 07:45 AM | | | 07:30 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 181 | 22 | 203 | 24 | 170 | 194 | 29 | **69** | **98** |
| +15 mins. | 171 | 16 | 187 | **29** | 165 | 194 | 29 | 59 | 88 |
| +30 mins. | 181 | 27 | 208 | 16 | 168 | 184 | **56** | 29 | 85 |
| +45 mins. | **225** | **34** | **259** | 19 | **182** | **201** | 51 | 46 | 97 |
| Total Volume | 758 | 99 | 857 | 88 | 685 | 773 | 165 | 203 | 368 |
| % App. Total | 88.4 | 11.6 | | 11.4 | 88.6 | | 44.8 | 55.2 | |
| PHF | .842 | .728 | .827 | .759 | .941 | .961 | .737 | .736 | .939 |

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 07:00 AM | 71 | 6 | 77 | 24 | 42 | 66 | 13 | 47 | 60 | 203 |
| 07:15 AM | 120 | 10 | 130 | 22 | 80 | 102 | 10 | 55 | 65 | 297 |
| 07:30 AM | 175 | 21 | 196 | 46 | 106 | 152 | 29 | 67 | 96 | 444 |
| 07:45 AM | 178 | 22 | 200 | 23 | 165 | 188 | 28 | 57 | 85 | 473 |
| Total | 544 | 59 | 603 | 115 | 393 | 508 | 80 | 226 | 306 | 1417 |
| 08:00 AM | 163 | 16 | 179 | 29 | 161 | 190 | 54 | 28 | 82 | 451 |
| 08:15 AM | 173 | 26 | 199 | 16 | 165 | 181 | 51 | 46 | 97 | 477 |
| 08:30 AM | 220 | 34 | 254 | 19 | 179 | 198 | 29 | 33 | 62 | 514 |
| 08:45 AM | 158 | 12 | 170 | 29 | 148 | 177 | 25 | 25 | 50 | 397 |
| Total | 714 | 88 | 802 | 93 | 653 | 746 | 159 | 132 | 291 | 1839 |
| Grand Total | 1258 | 147 | 1405 | 208 | 1046 | 1254 | 239 | 358 | 597 | 3256 |
| Apprch % | 89.5 | 10.5 | | 16.6 | 83.4 | | 40 | 60 | | |
| Total % | 38.6 | 4.5 | 43.2 | 6.4 | 32.1 | 38.5 | 7.3 | 11 | 18.3 | |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | |
| 07:45 AM | 178 | 22 | 200 | 23 | 165 | 188 | 28 | **57** | 85 | 473 |
| 08:00 AM | 163 | 16 | 179 | **29** | 161 | 190 | **54** | 28 | 82 | 451 |
| 08:15 AM | 173 | 26 | 199 | 16 | 165 | 181 | 51 | 46 | **97** | 477 |
| 08:30 AM | **220** | **34** | **254** | 19 | **179** | **198** | 29 | 33 | 62 | **514** |
| Total Volume | 734 | 98 | 832 | 87 | 670 | 757 | 162 | 164 | 326 | 1915 |
| % App. Total | 88.2 | 11.8 | | 11.5 | 88.5 | | 49.7 | 50.3 | | |
| PHF | .834 | .721 | .819 | .750 | .936 | .956 | .750 | .719 | .840 | .931 |

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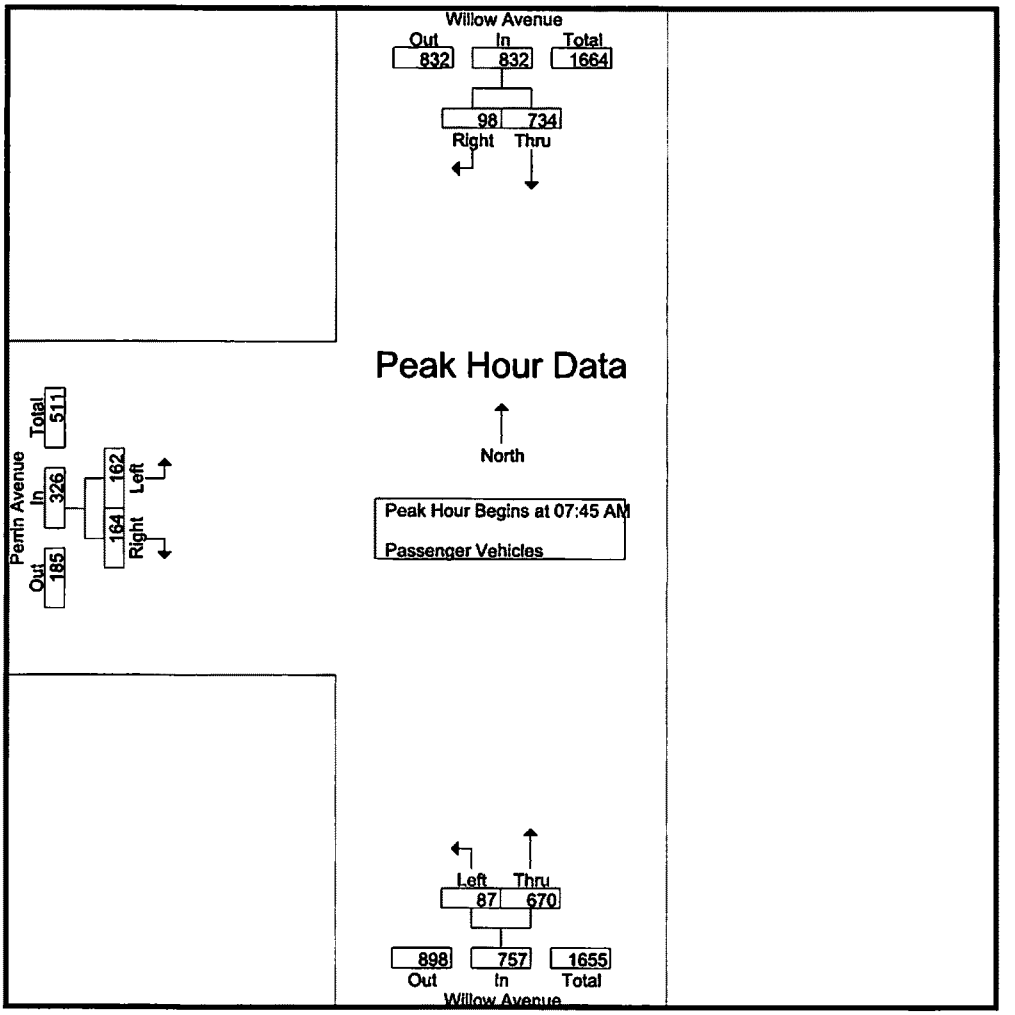
City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | 07:45 AM | | | 07:45 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 178 | 22 | 200 | 23 | 165 | 188 | 28 | 57 | 85 |
| +15 mins. | 163 | 16 | 179 | 29 | 161 | 190 | 54 | 28 | 82 |
| +30 mins. | 173 | 26 | 199 | 16 | 165 | 181 | 51 | 46 | 97 |
| +45 mins. | 220 | 34 | 254 | 19 | 179 | 198 | 29 | 33 | 62 |
| Total Volume | 734 | 98 | 832 | 87 | 670 | 757 | 162 | 164 | 326 |
| % App. Total | 88.2 | 11.8 | | 11.5 | 88.5 | | 49.7 | 50.3 | |
| PHF | .834 | .721 | .819 | .750 | .936 | .956 | .750 | .719 | .840 |

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 07:00 AM | 2 | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 4 |
| 07:15 AM | 4 | 0 | 4 | 0 | 4 | 4 | 0 | 0 | 0 | 8 |
| 07:30 AM | 2 | 0 | 2 | 0 | 1 | 1 | 0 | 1 | 1 | 4 |
| 07:45 AM | 3 | 0 | 3 | 0 | 2 | 2 | 1 | 2 | 3 | 8 |
| Total | 11 | 0 | 11 | 0 | 9 | 9 | 1 | 3 | 4 | 24 |
| 08:00 AM | 5 | 0 | 5 | 0 | 4 | 4 | 1 | 1 | 2 | 11 |
| 08:15 AM | 6 | 1 | 7 | 0 | 3 | 3 | 0 | 0 | 0 | 10 |
| 08:30 AM | 5 | 0 | 5 | 0 | 3 | 3 | 0 | 0 | 0 | 8 |
| 08:45 AM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 17 | 1 | 18 | 0 | 10 | 10 | 1 | 1 | 2 | 30 |
| Grand Total | 28 | 1 | 29 | 0 | 19 | 19 | 2 | 4 | 6 | 54 |
| Apprch % | 96.6 | 3.4 | | 0 | 100 | | 33.3 | 66.7 | | |
| Total % | 51.9 | 1.9 | 53.7 | 0 | 35.2 | 35.2 | 3.7 | 7.4 | 11.1 | |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | |
| 07:45 AM | 3 | 0 | 3 | 0 | 2 | 2 | 1 | 2 | 3 | 8 |
| 08:00 AM | 5 | 0 | 5 | 0 | 4 | 4 | 1 | 1 | 2 | 11 |
| 08:15 AM | 6 | 1 | 7 | 0 | 3 | 3 | 0 | 0 | 0 | 10 |
| 08:30 AM | 5 | 0 | 5 | 0 | 3 | 3 | 0 | 0 | 0 | 8 |
| Total Volume | 19 | 1 | 20 | 0 | 12 | 12 | 2 | 3 | 5 | 37 |
| % App. Total | 95 | 5 | | 0 | 100 | | 40 | 60 | | |
| PHF | .792 | .250 | .714 | .000 | .750 | .750 | .500 | .375 | .417 | .841 |

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City of Clovis
N/S: Willow Avenue
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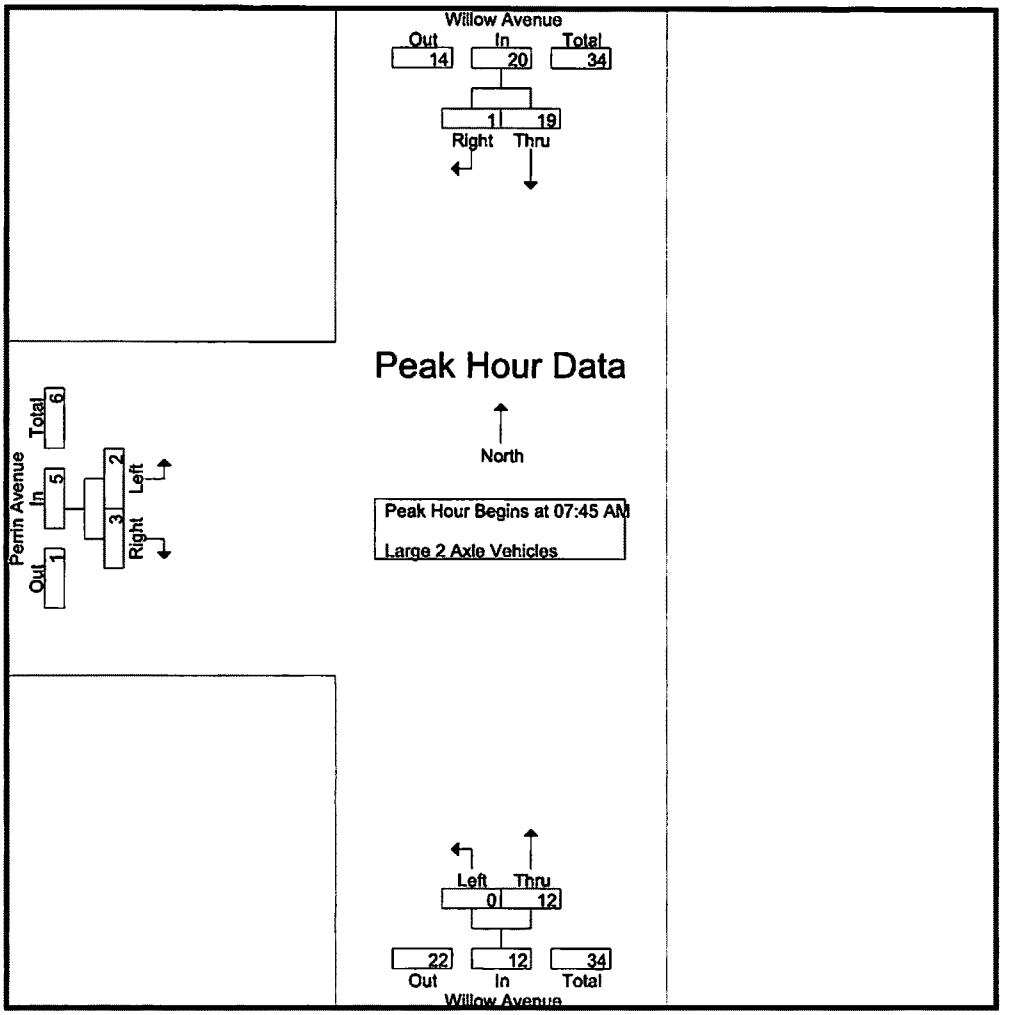
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | 07:45 AM | | | 07:45 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 3 | 0 | 3 | 0 | 2 | 2 | 1 | 2 | 3 |
| +15 mins. | 5 | 0 | 5 | 0 | 4 | 4 | 1 | 1 | 2 |
| +30 mins. | 6 | 1 | 7 | 0 | 3 | 3 | 0 | 0 | 0 |
| +45 mins. | 5 | 0 | 5 | 0 | 3 | 3 | 0 | 0 | 0 |
| Total Volume | 19 | 1 | 20 | 0 | 12 | 12 | 2 | 3 | 5 |
| % App. Total | 95 | 5 | | 0 | 100 | | 40 | 60 | |
| PHF | .792 | .250 | .714 | .000 | .750 | .750 | .500 | .375 | .417 |

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City of Clovis
N/S: Willow Avenue
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Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 AM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 2 |
| 07:45 AM | 0 | 0 | 0 | 1 | 3 | 4 | 0 | 0 | 0 | 4 |
| Total | 0 | 0 | 0 | 1 | 4 | 5 | 0 | 1 | 1 | 6 |
| 08:00 AM | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 3 |
| 08:15 AM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| Total | 3 | 0 | 3 | 0 | 1 | 1 | 1 | 0 | 1 | 5 |
| Grand Total | 3 | 0 | 3 | 1 | 5 | 6 | 1 | 1 | 2 | 11 |
| Apprch % | 100 | 0 | | 16.7 | 83.3 | | 50 | 50 | | |
| Total % | 27.3 | 0 | 27.3 | 9.1 | 45.5 | 54.5 | 9.1 | 9.1 | 18.2 | |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | |
| 07:45 AM | 0 | 0 | 0 | 1 | 3 | 4 | 0 | 0 | 0 | 4 |
| 08:00 AM | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 3 |
| 08:15 AM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 3 | 0 | 3 | 1 | 3 | 4 | 1 | 0 | 1 | 8 |
| % App. Total | 100 | 0 | | 25 | 75 | | 100 | 0 | | |
| PHF | .375 | .000 | .375 | .250 | .250 | .250 | .250 | .000 | .250 | .500 |

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File Name : 14_CVS_Will_Per AMC
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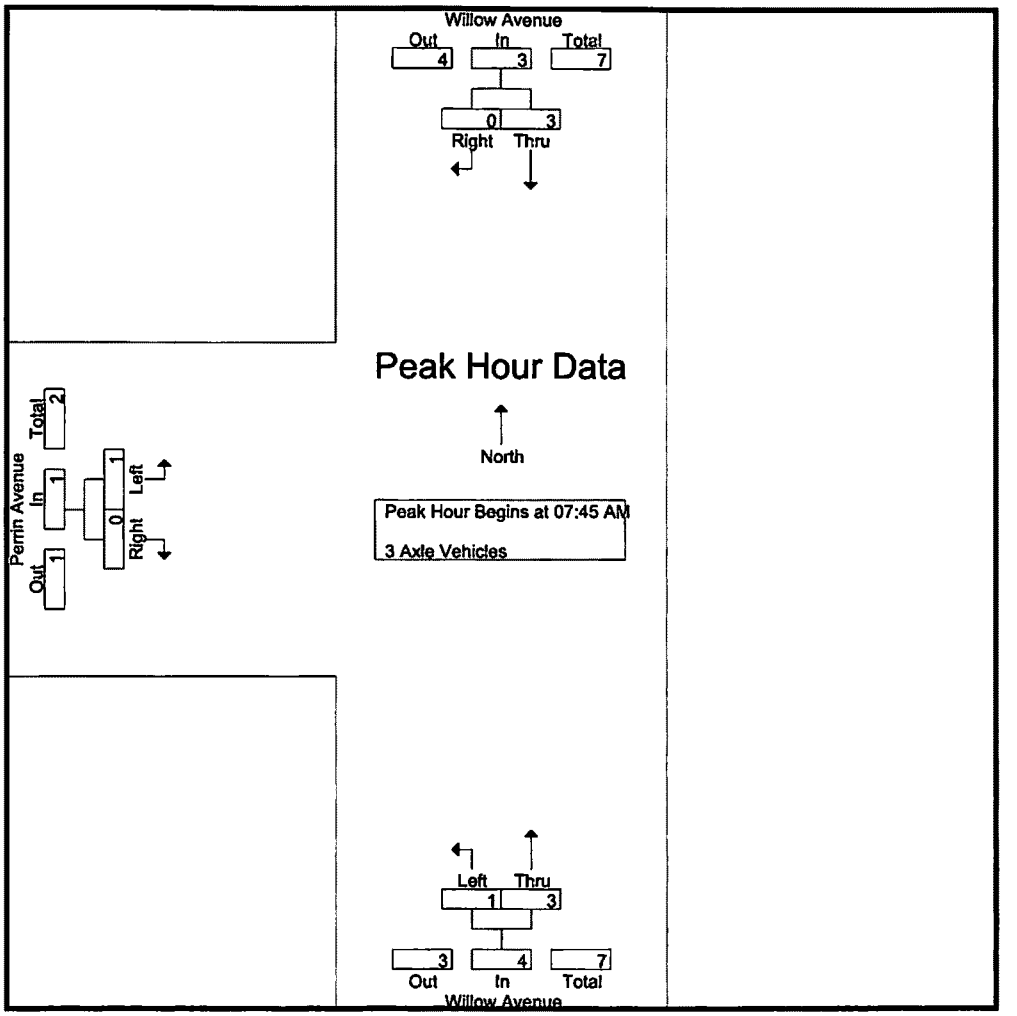


Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | 07:45 AM | | | 07:45 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 1 | 3 | 4 | 0 | 0 | 0 |
| +15 mins. | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 1 |
| +30 mins. | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 3 | 0 | 3 | 1 | 3 | 4 | 1 | 0 | 1 |
| % App. Total | 100 | 0 | | 25 | 75 | | 100 | 0 | |
| PHF | .375 | .000 | .375 | .250 | .250 | .250 | .250 | .000 | .250 |

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City of Clovis
N/S: Willow Avenue
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Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 2 |
| 08:00 AM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:15 AM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Grand Total | 2 | 0 | 2 | 0 | 1 | 1 | 0 | 1 | 1 | 4 |
| Apprch % | 100 | 0 | | 0 | 100 | | 0 | 100 | | |
| Total % | 50 | 0 | 50 | 0 | 25 | 25 | 0 | 25 | 25 | |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 AM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:15 AM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| % App. Total | 100 | 0 | | 0 | 0 | | 0 | 0 | | |
| PHF | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .000 | .000 | .500 |

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City of Clovis
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File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
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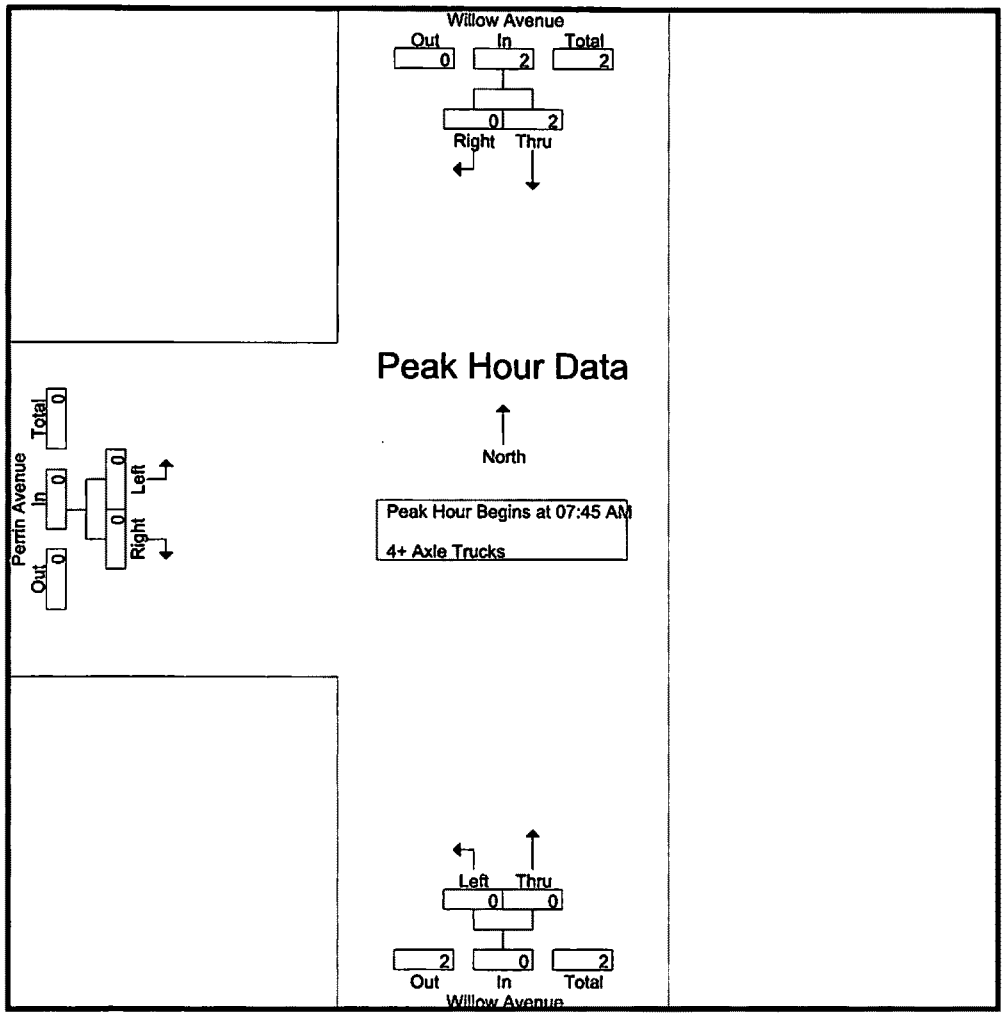


Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | 07:45 AM | | | 07:45 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 100 | 0 | | 0 | 0 | | 0 | 0 | |
| PHF | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .000 | .000 |

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 04:00 PM | 170 | 19 | 189 | 42 | 171 | 213 | 27 | 36 | 63 | 465 |
| 04:15 PM | 135 | 20 | 155 | 47 | 144 | 191 | 21 | 40 | 61 | 407 |
| 04:30 PM | 164 | 13 | 177 | 47 | 168 | 215 | 17 | 44 | 61 | 453 |
| 04:45 PM | 149 | 17 | 166 | 63 | 178 | 241 | 21 | 39 | 60 | 467 |
| Total | 618 | 69 | 687 | 199 | 661 | 860 | 86 | 159 | 245 | 1792 |
| 05:00 PM | 213 | 20 | 233 | 39 | 194 | 233 | 26 | 47 | 73 | 539 |
| 05:15 PM | 148 | 22 | 170 | 60 | 203 | 263 | 26 | 48 | 74 | 507 |
| 05:30 PM | 166 | 26 | 192 | 45 | 210 | 255 | 29 | 54 | 83 | 530 |
| 05:45 PM | 144 | 21 | 165 | 55 | 248 | 303 | 33 | 44 | 77 | 545 |
| Total | 671 | 89 | 760 | 199 | 855 | 1054 | 114 | 193 | 307 | 2121 |
| Grand Total | 1289 | 158 | 1447 | 398 | 1516 | 1914 | 200 | 352 | 552 | 3913 |
| Apprch % | 89.1 | 10.9 | | 20.8 | 79.2 | | 36.2 | 63.8 | | |
| Total % | 32.9 | 4 | 37 | 10.2 | 38.7 | 48.9 | 5.1 | 9 | 14.1 | |
| Passenger Vehicles | 1280 | 158 | 1438 | 396 | 1502 | 1898 | 200 | 351 | 551 | 3887 |
| % Passenger Vehicles | 99.3 | 100 | 99.4 | 99.5 | 99.1 | 99.2 | 100 | 99.7 | 99.8 | 99.3 |
| Large 2 Axle Vehicles | 8 | 0 | 8 | 1 | 9 | 10 | 0 | 1 | 1 | 19 |
| % Large 2 Axle Vehicles | 0.6 | 0 | 0.6 | 0.3 | 0.6 | 0.5 | 0 | 0.3 | 0.2 | 0.5 |
| 3 Axle Vehicles | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| % 3 Axle Vehicles | 0 | 0 | 0 | 0.3 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| 4+ Axle Trucks | 1 | 0 | 1 | 0 | 5 | 5 | 0 | 0 | 0 | 6 |
| % 4+ Axle Trucks | 0.1 | 0 | 0.1 | 0 | 0.3 | 0.3 | 0 | 0 | 0 | 0.2 |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | **213** | 20 | **233** | 39 | 194 | 233 | 26 | 47 | 73 | 539 |
| 05:15 PM | 148 | 22 | 170 | **60** | 203 | 263 | 26 | 48 | 74 | 507 |
| 05:30 PM | 166 | **26** | 192 | 45 | 210 | 255 | 29 | **54** | **83** | 530 |
| 05:45 PM | 144 | 21 | 165 | 55 | **248** | **303** | **33** | 44 | 77 | **545** |
| Total Volume | 671 | 89 | 760 | 199 | 855 | 1054 | 114 | 193 | 307 | 2121 |
| % App. Total | 88.3 | 11.7 | | 18.9 | 81.1 | | 37.1 | 62.9 | | |
| PHF | .788 | .856 | .815 | .829 | .862 | .870 | .864 | .894 | .925 | .973 |

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City of Clovis
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File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
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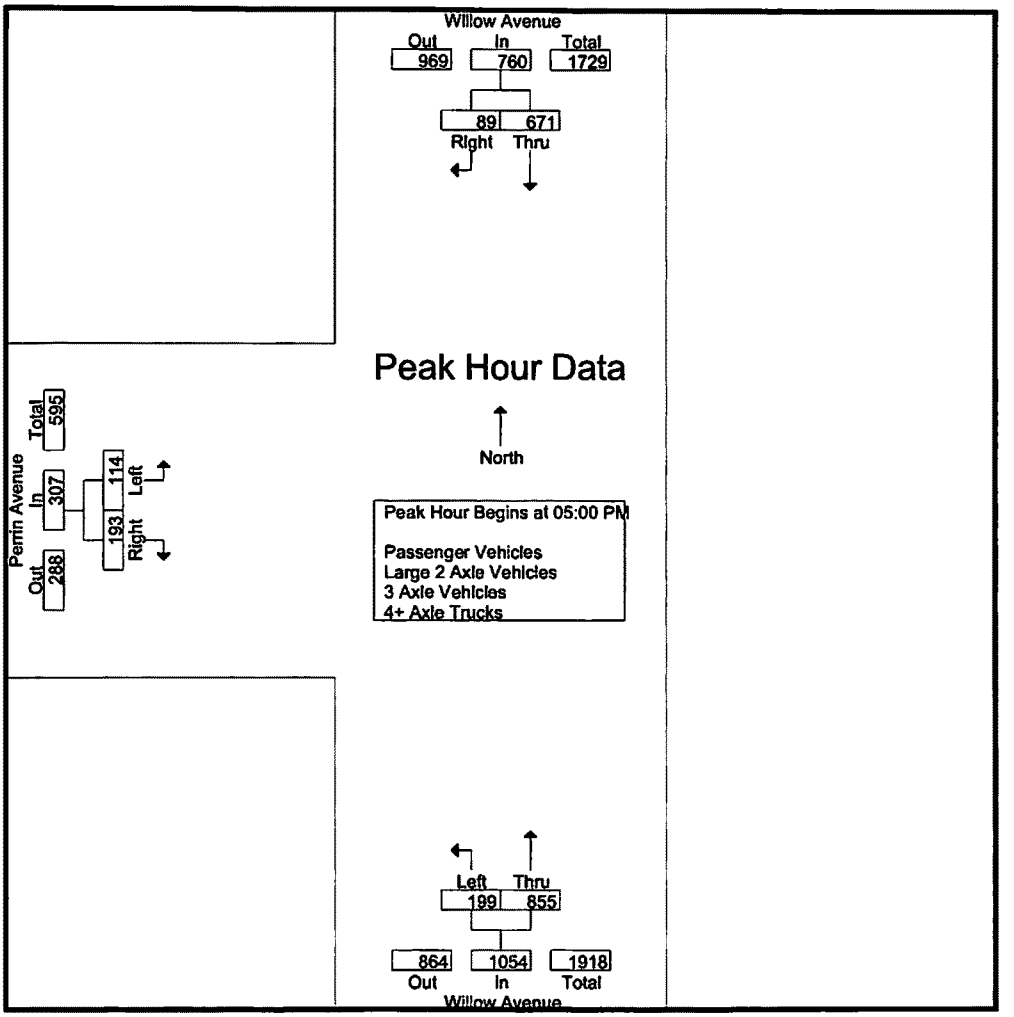


Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 04:45 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 149 | 17 | 166 | 39 | 194 | 233 | 26 | 47 | 73 |
| +15 mins. | **213** | 20 | **233** | **60** | 203 | 263 | 26 | 48 | 74 |
| +30 mins. | 148 | 22 | 170 | 45 | 210 | 255 | 29 | **54** | **83** |
| +45 mins. | 166 | **26** | 192 | 55 | **248** | **303** | **33** | 44 | 77 |
| Total Volume | 676 | 85 | 761 | 199 | 855 | 1054 | 114 | 193 | 307 |
| % App. Total | 88.8 | 11.2 | | 18.9 | 81.1 | | 37.1 | 62.9 | |
| PHF | .793 | .817 | .817 | .829 | .862 | .870 | .864 | .894 | .925 |

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City of Clovis
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E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 04:00 PM | 168 | 19 | 187 | 42 | 170 | 212 | 27 | 36 | 63 | 462 |
| 04:15 PM | 133 | 20 | 153 | 47 | 142 | 189 | 21 | 40 | 61 | 403 |
| 04:30 PM | 163 | 13 | 176 | 47 | 166 | 213 | 17 | 44 | 61 | 450 |
| 04:45 PM | 148 | 17 | 165 | 63 | 177 | 240 | 21 | 39 | 60 | 465 |
| Total | 612 | 69 | 681 | 199 | 655 | 854 | 86 | 159 | 245 | 1780 |
| 05:00 PM | 211 | 20 | 231 | 39 | 191 | 230 | 26 | 47 | 73 | 534 |
| 05:15 PM | 148 | 22 | 170 | 59 | 201 | 260 | 26 | 48 | 74 | 504 |
| 05:30 PM | 165 | 26 | 191 | 44 | 208 | 252 | 29 | 53 | 82 | 525 |
| 05:45 PM | 144 | 21 | 165 | 55 | 247 | 302 | 33 | 44 | 77 | 544 |
| Total | 668 | 89 | 757 | 197 | 847 | 1044 | 114 | 192 | 306 | 2107 |
| Grand Total | 1280 | 158 | 1438 | 396 | 1502 | 1898 | 200 | 351 | 551 | 3887 |
| Apprch % | 89 | 11 | | 20.9 | 79.1 | | 36.3 | 63.7 | | |
| Total % | 32.9 | 4.1 | 37 | 10.2 | 38.6 | 48.8 | 5.1 | 9 | 14.2 | |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | **211** | 20 | **231** | 39 | 191 | 230 | 26 | 47 | 73 | 534 |
| 05:15 PM | 148 | 22 | 170 | **59** | 201 | 260 | 26 | 48 | 74 | 504 |
| 05:30 PM | 165 | **26** | 191 | 44 | 208 | 252 | 29 | **53** | **82** | 525 |
| 05:45 PM | 144 | 21 | 165 | 55 | **247** | **302** | **33** | 44 | 77 | **544** |
| Total Volume | 668 | 89 | 757 | 197 | 847 | 1044 | 114 | 192 | 306 | 2107 |
| % App. Total | 88.2 | 11.8 | | 18.9 | 81.1 | | 37.3 | 62.7 | | |
| PHF | .791 | .856 | .819 | .835 | .857 | .864 | .864 | .906 | .933 | .968 |

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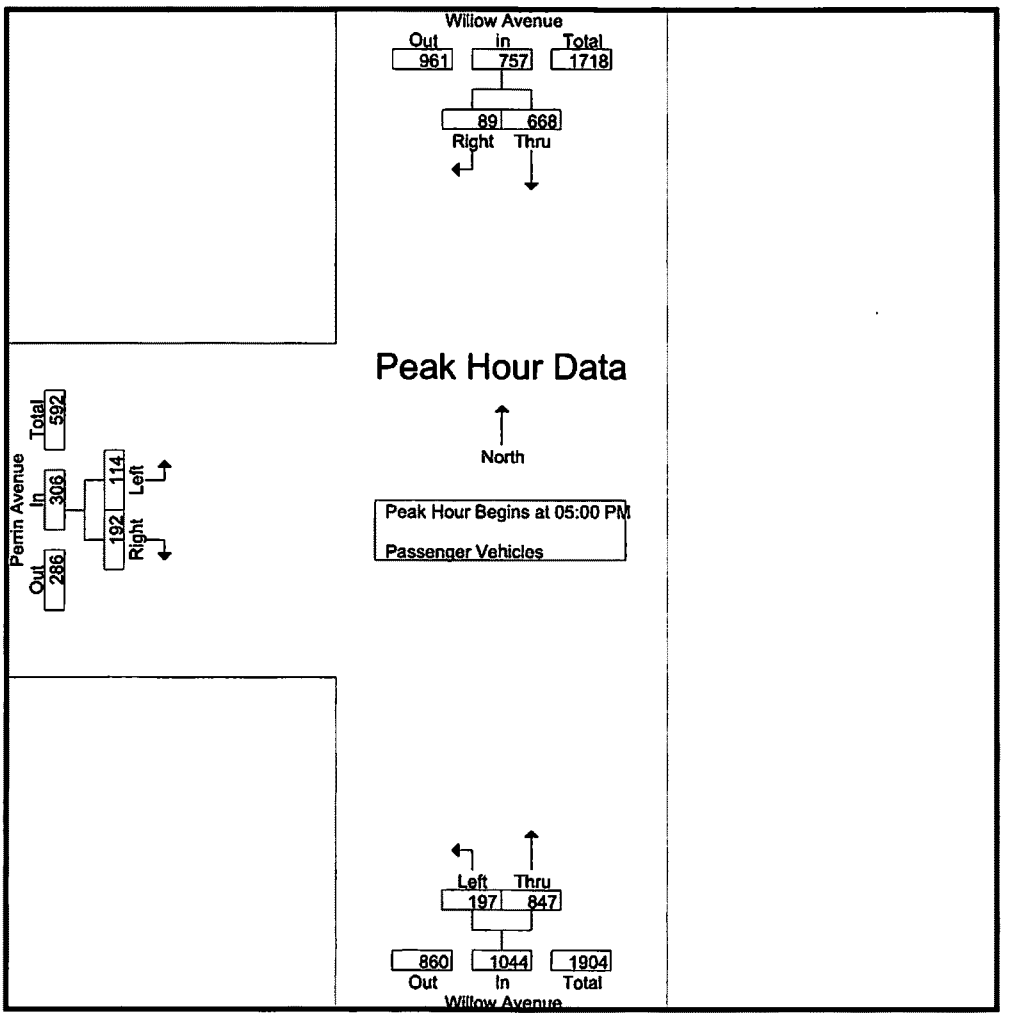
City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | **211** | 20 | **231** | 39 | 191 | 230 | 26 | 47 | 73 |
| +15 mins. | 148 | 22 | 170 | **59** | 201 | 260 | 26 | 48 | 74 |
| +30 mins. | 165 | **26** | 191 | 44 | 208 | 252 | 29 | **53** | **82** |
| +45 mins. | 144 | 21 | 165 | 55 | **247** | **302** | **33** | 44 | 77 |
| Total Volume | 668 | 89 | 757 | 197 | 847 | 1044 | 114 | 192 | 306 |
| % App. Total | 88.2 | 11.8 | | 18.9 | 81.1 | | 37.3 | 62.7 | |
| PHF | .791 | .856 | .819 | .835 | .857 | .864 | .864 | .906 | .933 |

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 04:00 PM | 2 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 3 |
| 04:15 PM | 1 | 0 | 1 | 0 | 2 | 2 | 0 | 0 | 0 | 3 |
| 04:30 PM | 1 | 0 | 1 | 0 | 2 | 2 | 0 | 0 | 0 | 3 |
| 04:45 PM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 5 | 0 | 5 | 0 | 5 | 5 | 0 | 0 | 0 | 10 |
| 05:00 PM | 2 | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 4 |
| 05:15 PM | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 2 |
| 05:30 PM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| 05:45 PM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| Total | 3 | 0 | 3 | 1 | 4 | 5 | 0 | 1 | 1 | 9 |
| Grand Total | 8 | 0 | 8 | 1 | 9 | 10 | 0 | 1 | 1 | 19 |
| Apprch % | 100 | 0 | | 10 | 90 | | 0 | 100 | | |
| Total % | 42.1 | 0 | 42.1 | 5.3 | 47.4 | 52.6 | 0 | 5.3 | 5.3 | |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | **2** | 0 | **2** | 0 | **2** | **2** | 0 | 0 | 0 | 4 |
| 05:15 PM | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 2 |
| 05:30 PM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | **1** | 1 | 2 |
| 05:45 PM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| Total Volume | 3 | 0 | 3 | 1 | 4 | 5 | 0 | 1 | 1 | 9 |
| % App. Total | 100 | 0 | | 20 | 80 | | 0 | 100 | | |
| PHF | .375 | .000 | .375 | .250 | .500 | .625 | .000 | .250 | .250 | .563 |

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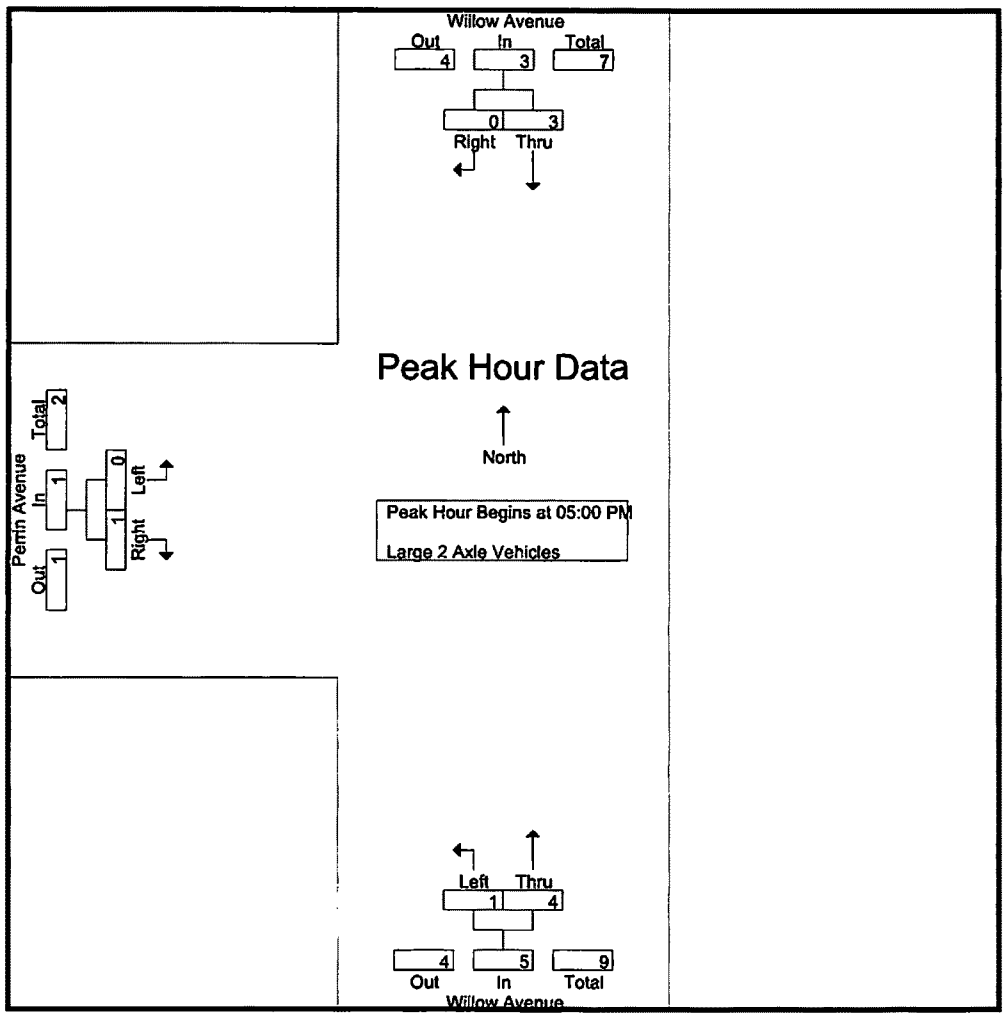
City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 2 | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 |
| +30 mins. | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| +45 mins. | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Total Volume | 3 | 0 | 3 | 1 | 4 | 5 | 0 | 1 | 1 |
| % App. Total | 100 | 0 | | 20 | 80 | | 0 | 100 | |
| PHF | .375 | .000 | .375 | .250 | .500 | .625 | .000 | .250 | .250 |

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| Grand Total | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| Apprch % | 0 | 0 | | 100 | 0 | | 0 | 0 | | |
| Total % | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| % App. Total | 0 | 0 | | 100 | 0 | | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .000 | .000 | .250 |

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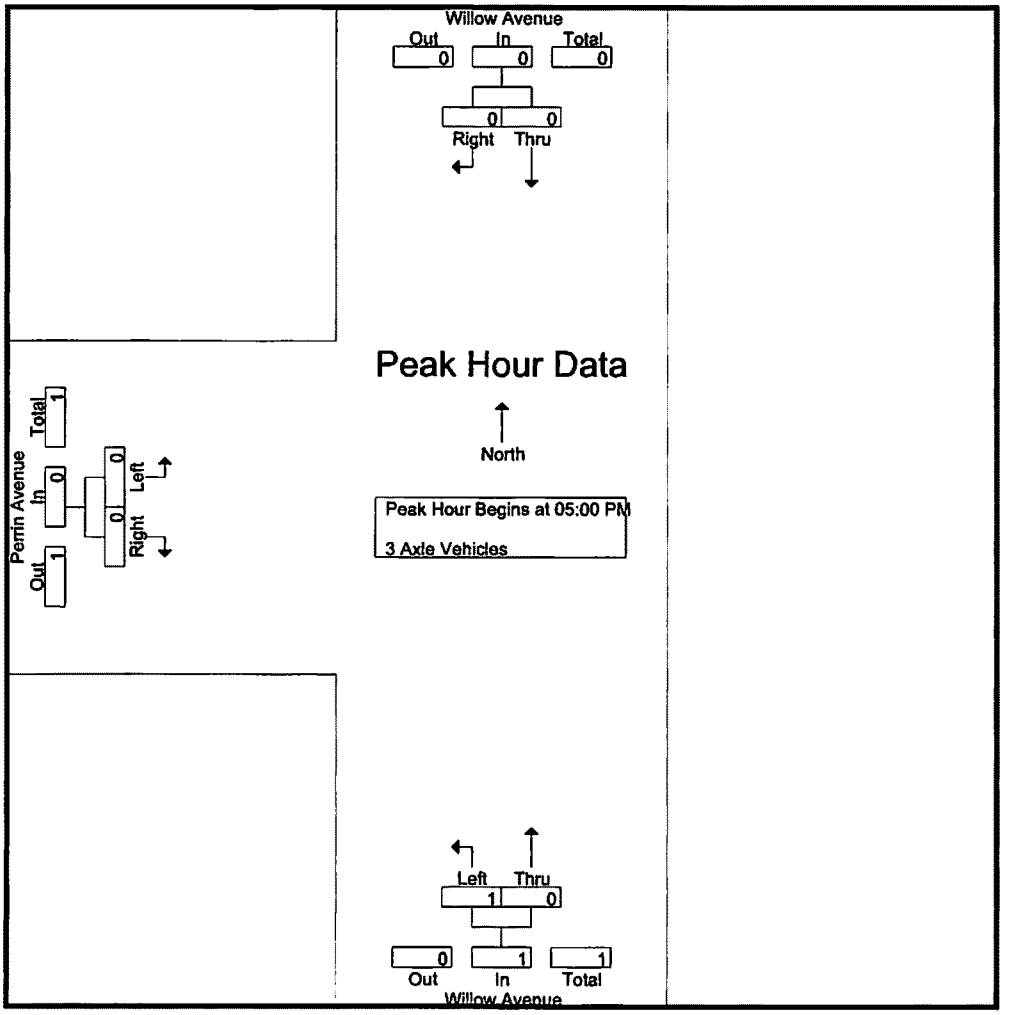
City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 100 | 0 | | 0 | 0 | |
| PHF | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .000 | .000 |

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| Total | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| 05:00 PM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 2 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 4 |
| Grand Total | 1 | 0 | 1 | 0 | 5 | 5 | 0 | 0 | 0 | 6 |
| Apprch % | 100 | 0 | | 0 | 100 | | 0 | 0 | | |
| Total % | 16.7 | 0 | 16.7 | 0 | 83.3 | 83.3 | 0 | 0 | 0 | |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 2 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 4 |
| % App. Total | 0 | 0 | | 0 | 100 | | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .500 | .500 | .000 | .000 | .000 | .500 |

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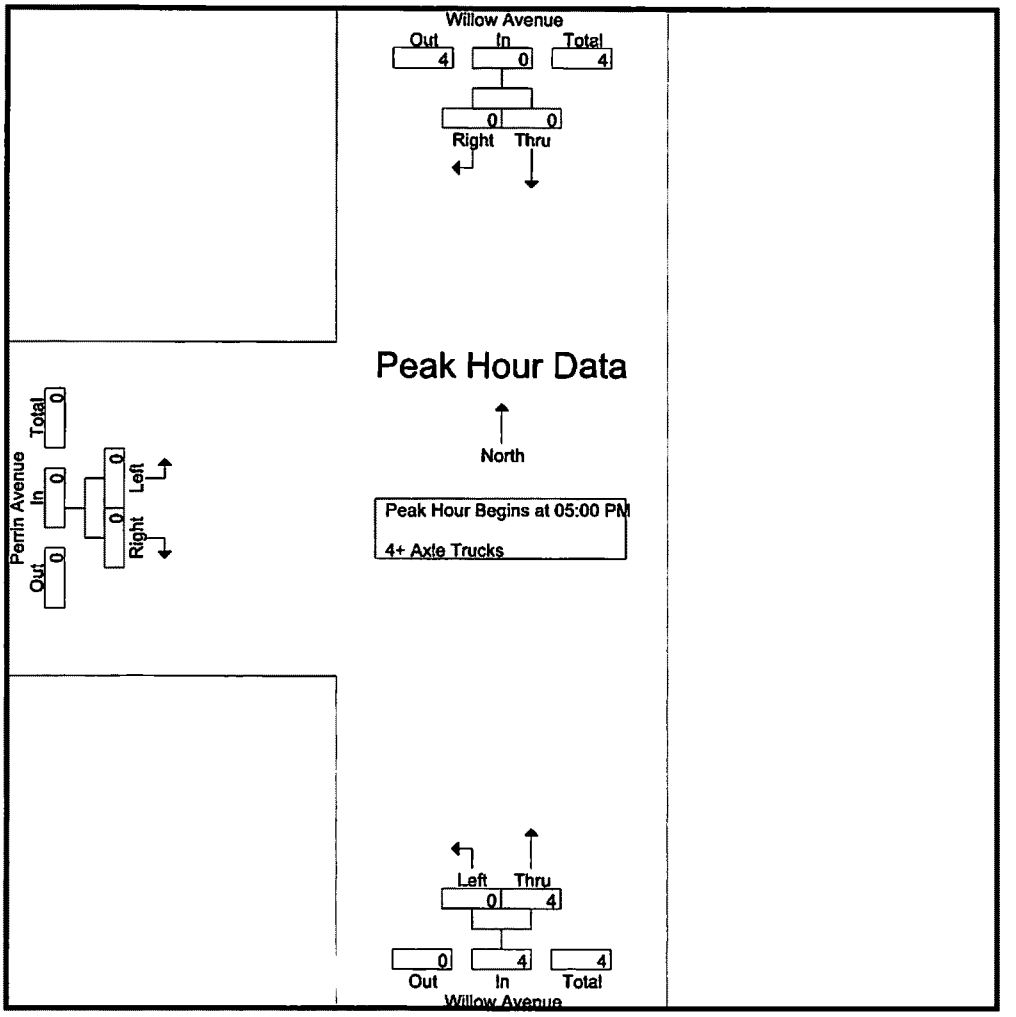
City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 0 | 100 | | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .500 | .500 | .000 | .000 | .000 |

Location: Clovis
N/S: Willow Avenue
E/W: Perrin Avenue

Date: 3/6/2024
Day: Wednesday

**PEDESTRIANS**

| | North Leg<br>Willow Avenue<br>Pedestrians | East Leg<br>Dead End<br>Pedestrians | South Leg<br>Willow Avenue<br>Pedestrians | West Leg<br>Perrin Avenue<br>Pedestrians | |
|---|---|---|---|---|---|
| 7:00 AM | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 2 | 2 |
| 8:00 AM | 0 | 0 | 0 | 1 | 1 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 1 | 1 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 4 | 4 |

| | North Leg<br>Willow Avenue<br>Pedestrians | East Leg<br>Dead End<br>Pedestrians | South Leg<br>Willow Avenue<br>Pedestrians | West Leg<br>Perrin Avenue<br>Pedestrians | |
|---|---|---|---|---|---|
| 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 2 | 2 |
| 5:15 PM | 0 | 0 | 0 | 2 | 2 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 4 | 4 |

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Location: Clovis
N/S: Willow Avenue
E/W: Perrin Avenue

Date: 3/6/2024
Day: Wednesday

**BICYCLES**

| | Southbound Willow Avenue | | | Westbound Dead End | | | Northbound Willow Avenue | | | Eastbound Perrin Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 7:30 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 4 |
| TOTAL VOLUMES: | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 1 | 0 | 0 | 16 |

| | Southbound Willow Avenue | | | Westbound Dead End | | | Northbound Willow Avenue | | | Eastbound Perrin Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 4:00 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:15 PM | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 5 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 4:45 PM | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 6 |
| 5:00 PM | 0 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 8 |
| 5:15 PM | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| TOTAL VOLUMES: | 0 | 12 | 0 | 0 | 0 | 0 | 3 | 8 | 0 | 0 | 0 | 2 | 25 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 07:00 AM | 1 | 0 | 1 | 34 | 0 | 34 | 0 | 39 | 39 | 74 |
| 07:15 AM | 0 | 0 | 0 | 58 | 0 | 58 | 0 | 32 | 32 | 90 |
| 07:30 AM | 0 | 0 | 0 | 118 | 1 | 119 | 0 | 42 | 42 | 161 |
| 07:45 AM | 0 | 0 | 0 | 104 | 0 | 104 | 0 | 69 | 69 | 173 |
| Total | 1 | 0 | 1 | 314 | 1 | 315 | 0 | 182 | 182 | 498 |
| 08:00 AM | 0 | 0 | 0 | 72 | 0 | 72 | 0 | 65 | 65 | 137 |
| 08:15 AM | 1 | 0 | 1 | 50 | 0 | 50 | 0 | 48 | 48 | 99 |
| 08:30 AM | 0 | 0 | 0 | 69 | 0 | 69 | 1 | 42 | 43 | 112 |
| 08:45 AM | 0 | 0 | 0 | 70 | 0 | 70 | 0 | 43 | 43 | 113 |
| Total | 1 | 0 | 1 | 261 | 0 | 261 | 1 | 198 | 199 | 461 |
| Grand Total | 2 | 0 | 2 | 575 | 1 | 576 | 1 | 380 | 381 | 959 |
| Apprch % | 100 | 0 | | 99.8 | 0.2 | | 0.3 | 99.7 | | |
| Total % | 0.2 | 0 | 0.2 | 60 | 0.1 | 60.1 | 0.1 | 39.6 | 39.7 | |
| Passenger Vehicles | 2 | 0 | 2 | 566 | 1 | 567 | 1 | 368 | 369 | 938 |
| % Passenger Vehicles | 100 | 0 | 100 | 98.4 | 100 | 98.4 | 100 | 96.8 | 96.9 | 97.8 |
| Large 2 Axle Vehicles | 0 | 0 | 0 | 6 | 0 | 6 | 0 | 8 | 8 | 14 |
| % Large 2 Axle Vehicles | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2.1 | 2.1 | 1.5 |
| 3 Axle Vehicles | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 |
| % 3 Axle Vehicles | 0 | 0 | 0 | 0.2 | 0 | 0.2 | 0 | 0.3 | 0.3 | 0.2 |
| 4+ Axle Trucks | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 3 | 3 | 5 |
| % 4+ Axle Trucks | 0 | 0 | 0 | 0.3 | 0 | 0.3 | 0 | 0.8 | 0.8 | 0.5 |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | 118 | 1 | 119 | 0 | 42 | 42 | 161 |
| 07:45 AM | 0 | 0 | 0 | 104 | 0 | 104 | 0 | 69 | 69 | 173 |
| 08:00 AM | 0 | 0 | 0 | 72 | 0 | 72 | 0 | 65 | 65 | 137 |
| 08:15 AM | 1 | 0 | 1 | 50 | 0 | 50 | 0 | 48 | 48 | 99 |
| Total Volume | 1 | 0 | 1 | 344 | 1 | 345 | 0 | 224 | 224 | 570 |
| % App. Total | 100 | 0 | | 99.7 | 0.3 | | 0 | 100 | | |
| PHF | .250 | .000 | .250 | .729 | .250 | .725 | .000 | .812 | .812 | .824 |

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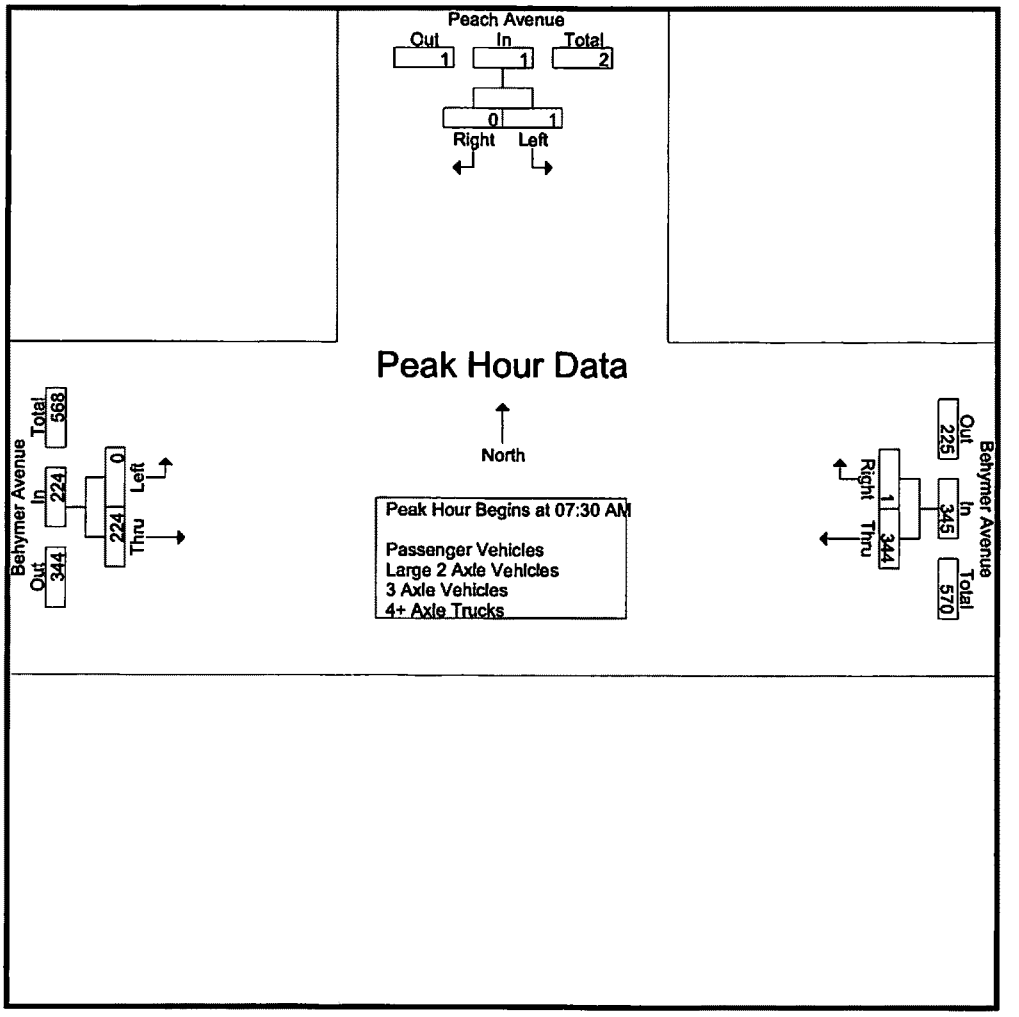
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:00 AM | | | 07:15 AM | | | 07:45 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | **1** | 0 | **1** | 58 | 0 | 58 | 0 | **69** | **69** |
| +15 mins. | 0 | 0 | 0 | **118** | **1** | **119** | 0 | 65 | 65 |
| +30 mins. | 0 | 0 | 0 | 104 | 0 | 104 | 0 | 48 | 48 |
| +45 mins. | 0 | 0 | 0 | 72 | 0 | 72 | **1** | 42 | 43 |
| Total Volume | 1 | 0 | 1 | 352 | 1 | 353 | 1 | 224 | 225 |
| % App. Total | 100 | 0 | | 99.7 | 0.3 | | 0.4 | 99.6 | |
| PHF | .250 | .000 | .250 | .746 | .250 | .742 | .250 | .812 | .815 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 07:00 AM | 1 | 0 | 1 | 32 | 0 | 32 | 0 | 39 | 39 | 72 |
| 07:15 AM | 0 | 0 | 0 | 56 | 0 | 56 | 0 | 29 | 29 | 85 |
| 07:30 AM | 0 | 0 | 0 | 117 | 1 | 118 | 0 | 42 | 42 | 160 |
| 07:45 AM | 0 | 0 | 0 | 104 | 0 | 104 | 0 | 66 | 66 | 170 |
| Total | 1 | 0 | 1 | 309 | 1 | 310 | 0 | 176 | 176 | 487 |
| 08:00 AM | 0 | 0 | 0 | 68 | 0 | 68 | 0 | 63 | 63 | 131 |
| 08:15 AM | 1 | 0 | 1 | 50 | 0 | 50 | 0 | 46 | 46 | 97 |
| 08:30 AM | 0 | 0 | 0 | 69 | 0 | 69 | 1 | 41 | 42 | 111 |
| 08:45 AM | 0 | 0 | 0 | 70 | 0 | 70 | 0 | 42 | 42 | 112 |
| Total | 1 | 0 | 1 | 257 | 0 | 257 | 1 | 192 | 193 | 451 |
| Grand Total | 2 | 0 | 2 | 566 | 1 | 567 | 1 | 368 | 369 | 938 |
| Apprch % | 100 | 0 | | 99.8 | 0.2 | | 0.3 | 99.7 | | |
| Total % | 0.2 | 0 | 0.2 | 60.3 | 0.1 | 60.4 | 0.1 | 39.2 | 39.3 | |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | **117** | **1** | **118** | 0 | 42 | 42 | 160 |
| 07:45 AM | 0 | 0 | 0 | 104 | 0 | 104 | 0 | **66** | **66** | **170** |
| 08:00 AM | 0 | 0 | 0 | 68 | 0 | 68 | 0 | 63 | 63 | 131 |
| 08:15 AM | **1** | 0 | **1** | 50 | 0 | 50 | 0 | 46 | 46 | 97 |
| Total Volume | 1 | 0 | 1 | 339 | 1 | 340 | 0 | 217 | 217 | 558 |
| % App. Total | 100 | 0 | | 99.7 | 0.3 | | 0 | 100 | | |
| PHF | .250 | .000 | .250 | .724 | .250 | .720 | .000 | .822 | .822 | .821 |

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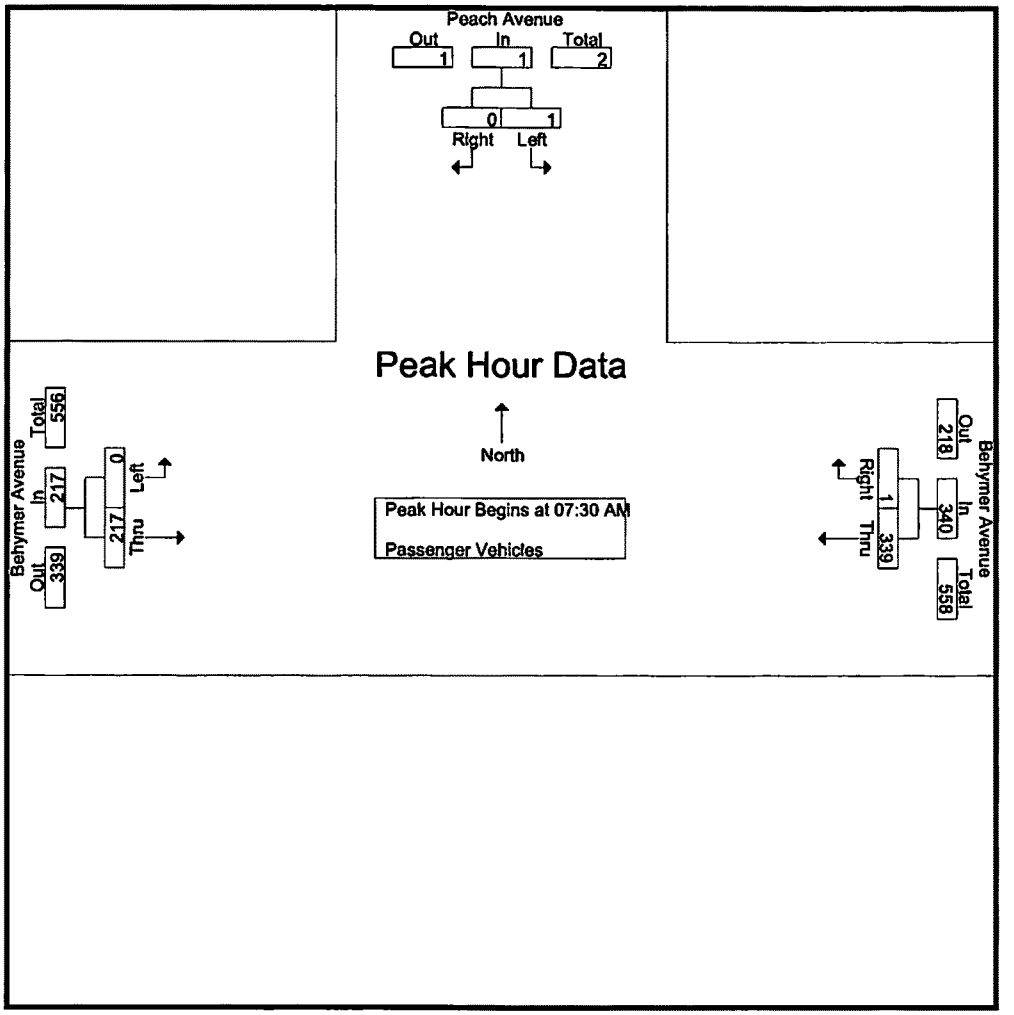
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | 07:30 AM | | | 07:30 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | **117** | **1** | **118** | 0 | 42 | 42 |
| +15 mins. | 0 | 0 | 0 | 104 | 0 | 104 | 0 | **66** | **66** |
| +30 mins. | 0 | 0 | 0 | 68 | 0 | 68 | 0 | 63 | 63 |
| +45 mins. | **1** | 0 | **1** | 50 | 0 | 50 | 0 | 46 | 46 |
| Total Volume | 1 | 0 | 1 | 339 | 1 | 340 | 0 | 217 | 217 |
| % App. Total | 100 | 0 | | 99.7 | 0.3 | | 0 | 100 | |
| PHF | .250 | .000 | .250 | .724 | .250 | .720 | .000 | .822 | .822 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 07:15 AM | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 3 | 3 | 5 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| Total | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 4 | 4 | 7 |
| 08:00 AM | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 2 | 2 | 5 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 4 | 4 | 7 |
| Grand Total | 0 | 0 | 0 | 6 | 0 | 6 | 0 | 8 | 8 | 14 |
| Apprch % | 0 | 0 | | 100 | 0 | | 0 | 100 | | |
| Total % | 0 | 0 | 0 | 42.9 | 0 | 42.9 | 0 | 57.1 | 57.1 | |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 08:00 AM | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 2 | 2 | 5 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| Total Volume | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 5 | 5 | 8 |
| % App. Total | 0 | 0 | | 100 | 0 | | 0 | 100 | | |
| PHF | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .625 | .625 | .400 |

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City of Clovis
N/S: Peach Avenue
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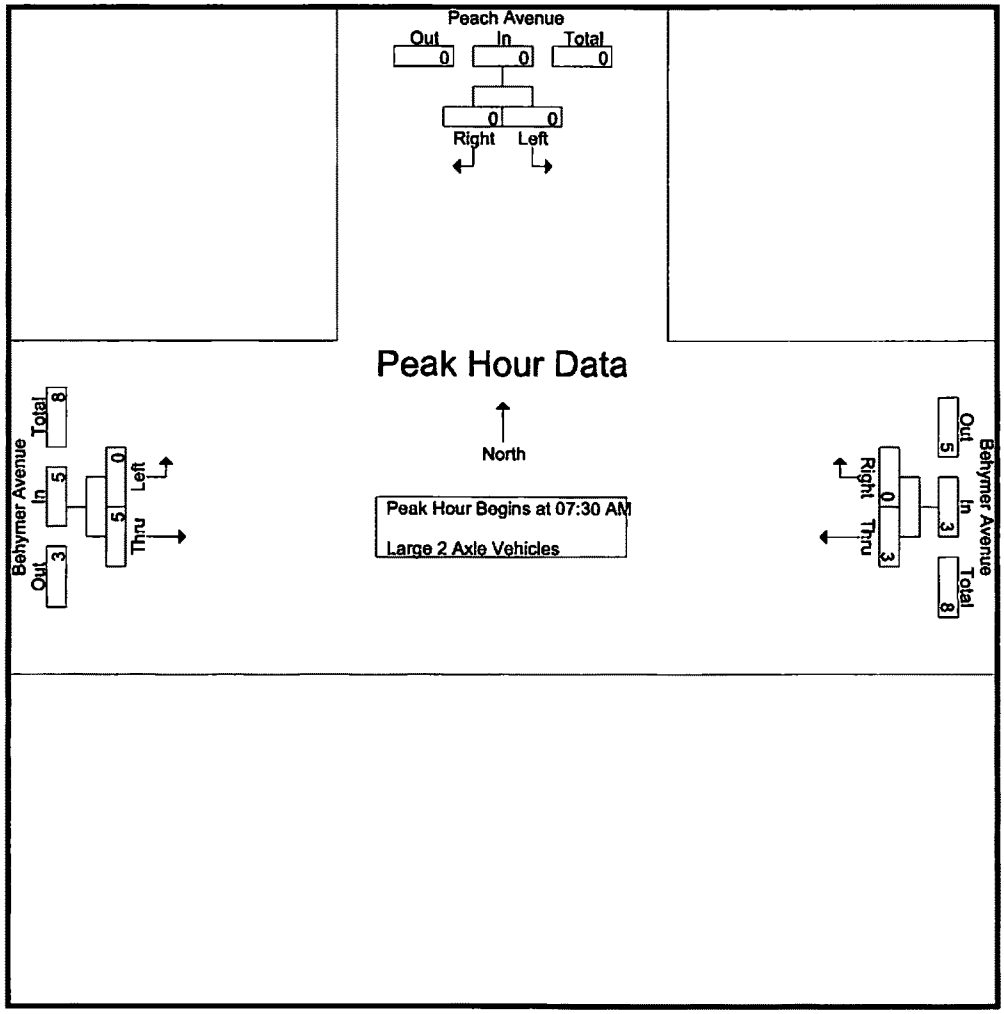
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | 07:30 AM | | | 07:30 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| +30 mins. | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 2 | 2 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Total Volume | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 5 | 5 |
| % App. Total | 0 | 0 | | 100 | 0 | | 0 | 100 | |
| PHF | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .625 | .625 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | RIght | App. Total | Left | Thru | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 AM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| Grand Total | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 |
| Apprch % | 0 | 0 | | 100 | 0 | | 0 | 100 | | |
| Total % | 0 | 0 | 0 | 50 | 0 | 50 | 0 | 50 | 50 | |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | **1** | 0 | **1** | 0 | 0 | 0 | **1** |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| % App. Total | 0 | 0 | | 100 | 0 | | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .000 | .000 | .250 |

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Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
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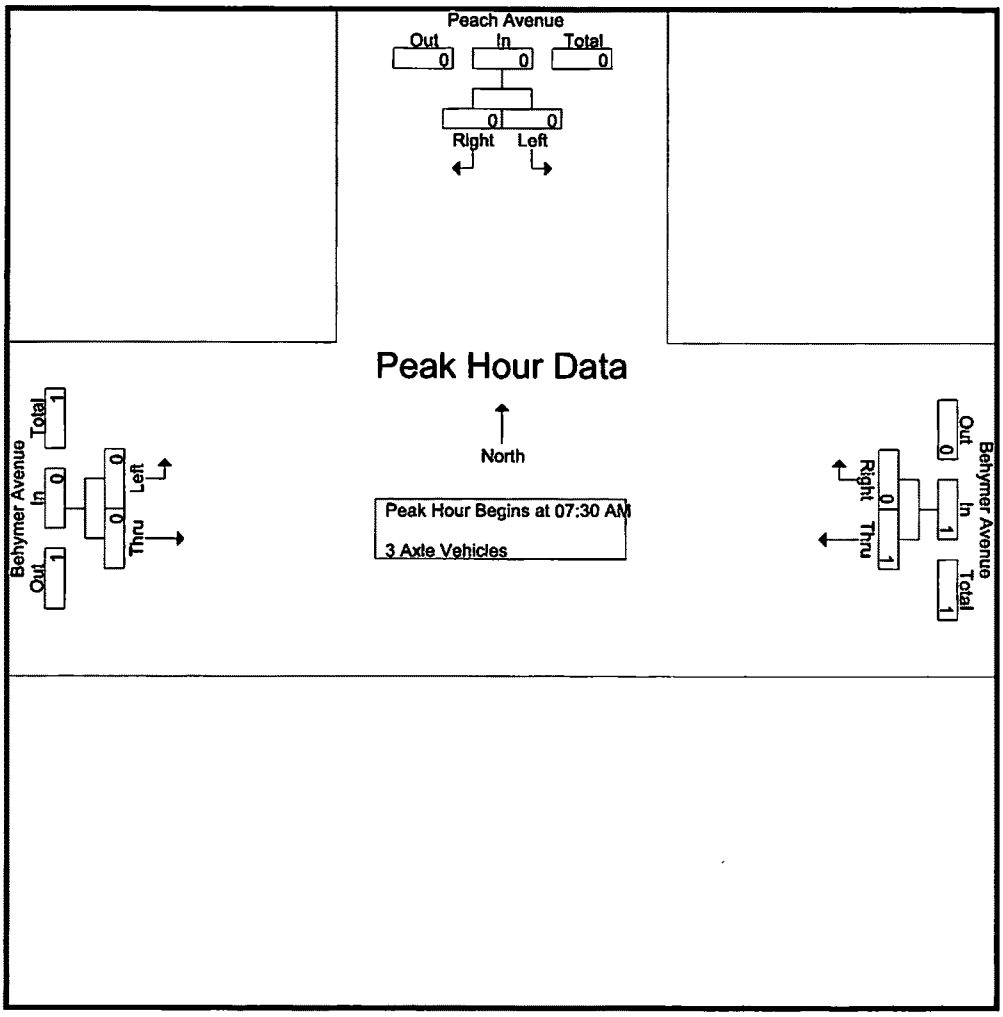


Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | 07:30 AM | | | 07:30 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 100 | 0 | | 0 | 0 | |
| PHF | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .000 | .000 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| Total | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 2 | 3 |
| 08:00 AM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 |
| Grand Total | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 3 | 3 | 5 |
| Apprch % | 0 | 0 | | 100 | 0 | | 0 | 100 | | |
| Total % | 0 | 0 | 0 | 40 | 0 | 40 | 0 | 60 | 60 | |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **2** | **2** | **2** |
| 08:00 AM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 2 | 3 |
| % App. Total | 0 | 0 | | 100 | 0 | | 0 | 100 | | |
| PHF | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .250 | .250 | .375 |

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File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
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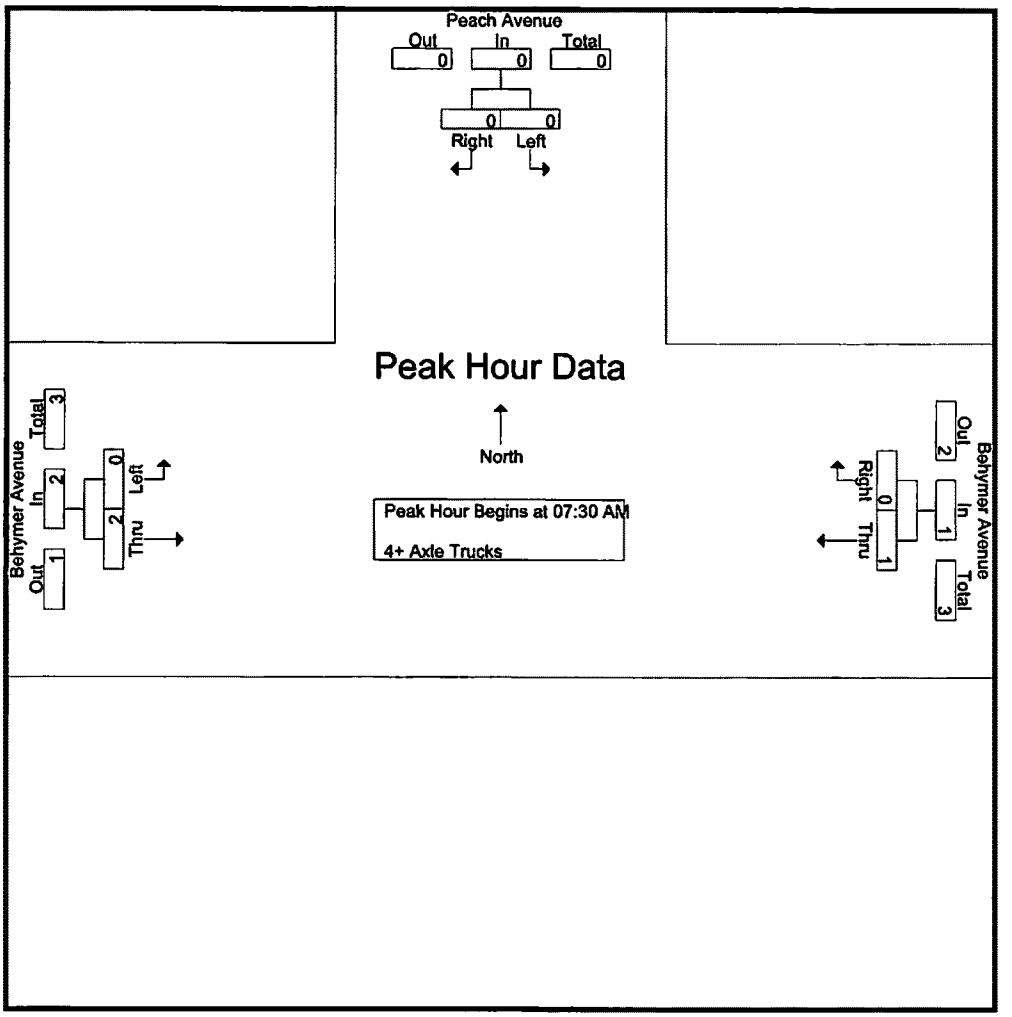


Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | 07:30 AM | | | 07:30 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **2** | **2** |
| +30 mins. | 0 | 0 | 0 | **1** | 0 | 1 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 2 |
| % App. Total | 0 | 0 | | 100 | 0 | | 0 | 100 | |
| PHF | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .250 | .250 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 67 | 0 | 67 | 0 | 69 | 69 | 136 |
| 04:15 PM | 0 | 0 | 0 | 59 | 0 | 59 | 0 | 45 | 45 | 104 |
| 04:30 PM | 0 | 0 | 0 | 56 | 0 | 56 | 0 | 72 | 72 | 128 |
| 04:45 PM | 0 | 0 | 0 | 66 | 2 | 68 | 0 | 46 | 46 | 114 |
| Total | 0 | 0 | 0 | 248 | 2 | 250 | 0 | 232 | 232 | 482 |
| 05:00 PM | 0 | 0 | 0 | 59 | 0 | 59 | 0 | 82 | 82 | 141 |
| 05:15 PM | 0 | 1 | 1 | 74 | 0 | 74 | 1 | 61 | 62 | 137 |
| 05:30 PM | 0 | 0 | 0 | 72 | 0 | 72 | 0 | 50 | 50 | 122 |
| 05:45 PM | 0 | 0 | 0 | 88 | 0 | 88 | 0 | 48 | 48 | 136 |
| Total | 0 | 1 | 1 | 293 | 0 | 293 | 1 | 241 | 242 | 536 |
| Grand Total | 0 | 1 | 1 | 541 | 2 | 543 | 1 | 473 | 474 | 1018 |
| Apprch % | 0 | 100 | | 99.6 | 0.4 | | 0.2 | 99.8 | | |
| Total % | 0 | 0.1 | 0.1 | 53.1 | 0.2 | 53.3 | 0.1 | 46.5 | 46.6 | |
| Passenger Vehicles | 0 | 1 | 1 | 539 | 2 | 541 | 1 | 467 | 468 | 1010 |
| % Passenger Vehicles | 0 | 100 | 100 | 99.6 | 100 | 99.6 | 100 | 98.7 | 98.7 | 99.2 |
| Large 2 Axle Vehicles | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 6 | 6 | 8 |
| % Large 2 Axle Vehicles | 0 | 0 | 0 | 0.4 | 0 | 0.4 | 0 | 1.3 | 1.3 | 0.8 |
| 3 Axle Vehicles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % 3 Axle Vehicles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4+ Axle Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % 4+ Axle Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 59 | 0 | 59 | 0 | **82** | **82** | **141** |
| 05:15 PM | 0 | 1 | 1 | 74 | 0 | 74 | 1 | 61 | 62 | 137 |
| 05:30 PM | 0 | 0 | 0 | 72 | 0 | 72 | 0 | 50 | 50 | 122 |
| 05:45 PM | 0 | 0 | 0 | **88** | 0 | **88** | 0 | 48 | 48 | 136 |
| Total Volume | 0 | 1 | 1 | 293 | 0 | 293 | 1 | 241 | 242 | 536 |
| % App. Total | 0 | 100 | | 100 | 0 | | 0.4 | 99.6 | | |
| PHF | .000 | .250 | .250 | .832 | .000 | .832 | .250 | .735 | .738 | .950 |

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City of Clovis
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File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
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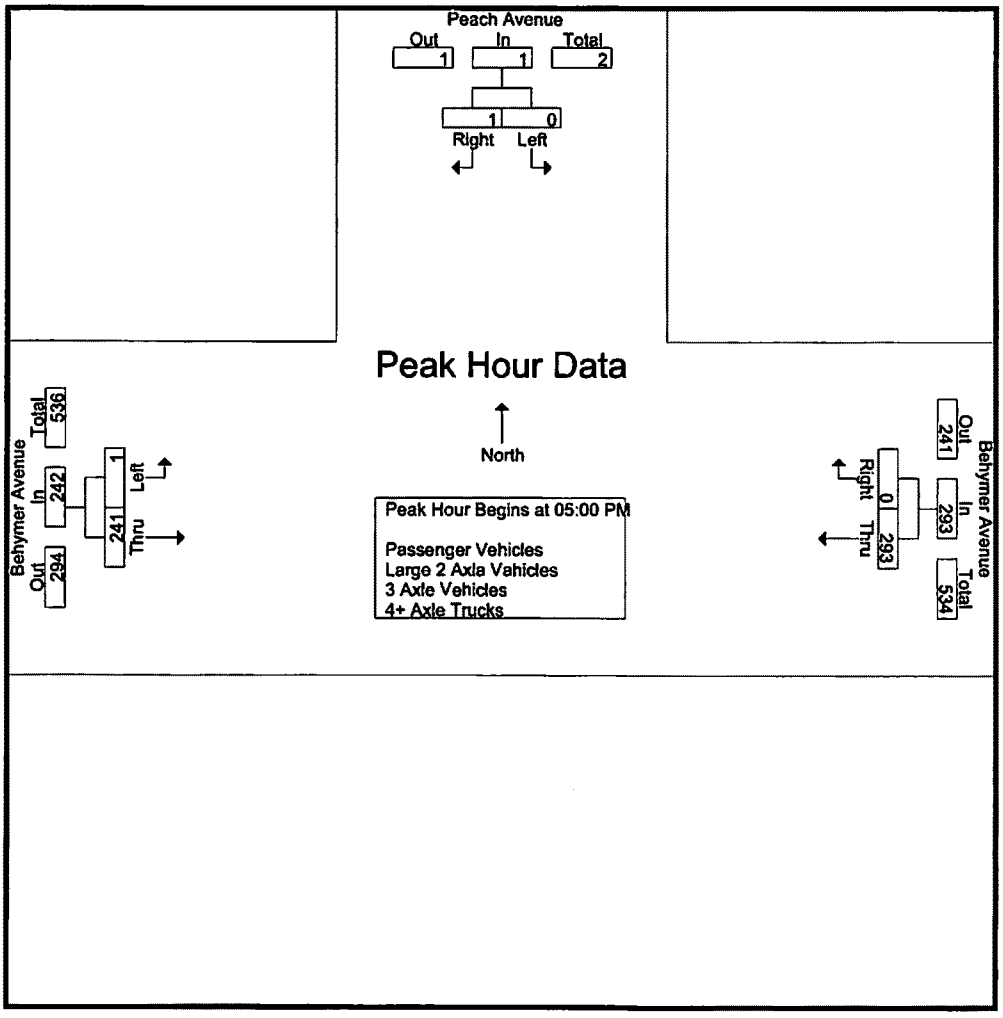


Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | 05:00 PM | | | 04:30 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 59 | 0 | 59 | 0 | 72 | 72 |
| +15 mins. | 0 | 0 | 0 | 74 | 0 | 74 | 0 | 46 | 46 |
| +30 mins. | 0 | 0 | 0 | 72 | 0 | 72 | 0 | 82 | 82 |
| +45 mins. | 0 | 1 | 1 | 88 | 0 | 88 | 1 | 61 | 62 |
| Total Volume | 0 | 1 | 1 | 293 | 0 | 293 | 1 | 261 | 262 |
| % App. Total | 0 | 100 | | 100 | 0 | | 0.4 | 99.6 | |
| PHF | .000 | .250 | .250 | .832 | .000 | .832 | .250 | .796 | .799 |

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City of Clovis
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Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 67 | 0 | 67 | 0 | 68 | 68 | 135 |
| 04:15 PM | 0 | 0 | 0 | 59 | 0 | 59 | 0 | 44 | 44 | 103 |
| 04:30 PM | 0 | 0 | 0 | 56 | 0 | 56 | 0 | 72 | 72 | 128 |
| 04:45 PM | 0 | 0 | 0 | 64 | 2 | 66 | 0 | 46 | 46 | 112 |
| Total | 0 | 0 | 0 | 246 | 2 | 248 | 0 | 230 | 230 | 478 |
| 05:00 PM | 0 | 0 | 0 | 59 | 0 | 59 | 0 | 79 | 79 | 138 |
| 05:15 PM | 0 | 1 | 1 | 74 | 0 | 74 | 1 | 61 | 62 | 137 |
| 05:30 PM | 0 | 0 | 0 | 72 | 0 | 72 | 0 | 50 | 50 | 122 |
| 05:45 PM | 0 | 0 | 0 | 88 | 0 | 88 | 0 | 47 | 47 | 135 |
| Total | 0 | 1 | 1 | 293 | 0 | 293 | 1 | 237 | 238 | 532 |
| Grand Total | 0 | 1 | 1 | 539 | 2 | 541 | 1 | 467 | 468 | 1010 |
| Apprch % | 0 | 100 | | 99.6 | 0.4 | | 0.2 | 99.8 | | |
| Total % | 0 | 0.1 | 0.1 | 53.4 | 0.2 | 53.6 | 0.1 | 46.2 | 46.3 | |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 59 | 0 | 59 | 0 | 79 | 79 | 138 |
| 05:15 PM | 0 | 1 | 1 | 74 | 0 | 74 | 1 | 61 | 62 | 137 |
| 05:30 PM | 0 | 0 | 0 | 72 | 0 | 72 | 0 | 50 | 50 | 122 |
| 05:45 PM | 0 | 0 | 0 | 88 | 0 | 88 | 0 | 47 | 47 | 135 |
| Total Volume | 0 | 1 | 1 | 293 | 0 | 293 | 1 | 237 | 238 | 532 |
| % App. Total | 0 | 100 | | 100 | 0 | | 0.4 | 99.6 | | |
| PHF | .000 | .250 | .250 | .832 | .000 | .832 | .250 | .750 | .753 | .964 |

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City of Clovis
N/S: Peach Avenue
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Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
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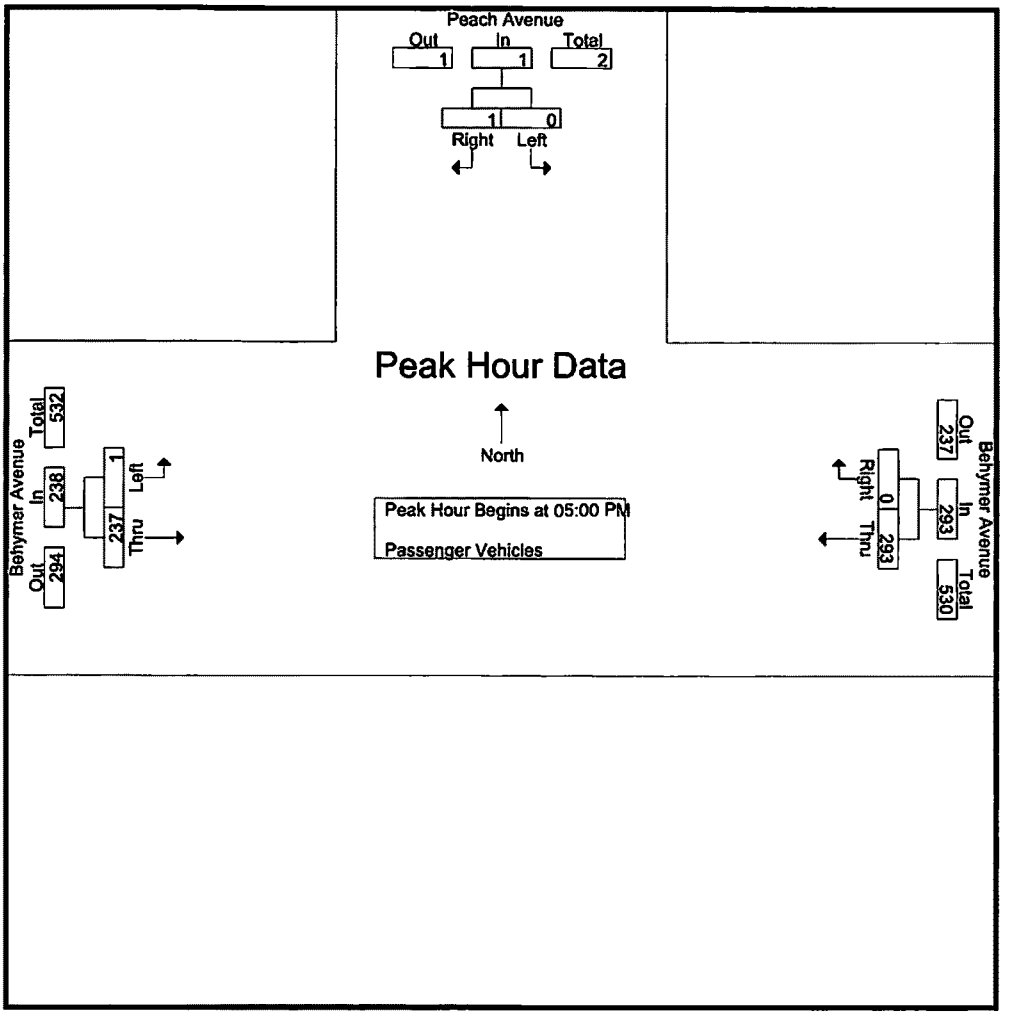


Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 59 | 0 | 59 | 0 | 79 | 79 |
| +15 mins. | 0 | 1 | 1 | 74 | 0 | 74 | 1 | 61 | 62 |
| +30 mins. | 0 | 0 | 0 | 72 | 0 | 72 | 0 | 50 | 50 |
| +45 mins. | 0 | 0 | 0 | 88 | 0 | 88 | 0 | 47 | 47 |
| Total Volume | 0 | 1 | 1 | 293 | 0 | 293 | 1 | 237 | 238 |
| % App. Total | 0 | 100 | | 100 | 0 | | 0.4 | 99.6 | |
| PHF | .000 | .250 | .250 | .832 | .000 | .832 | .250 | .750 | .753 |

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(951) 268-6268

City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 2 |
| Total | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 2 | 4 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 4 |
| Grand Total | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 6 | 6 | 8 |
| Apprch % | 0 | 0 | | 100 | 0 | | 0 | 100 | | |
| Total % | 0 | 0 | 0 | 25 | 0 | 25 | 0 | 75 | 75 | |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 4 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 100 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .333 | .333 | .333 |

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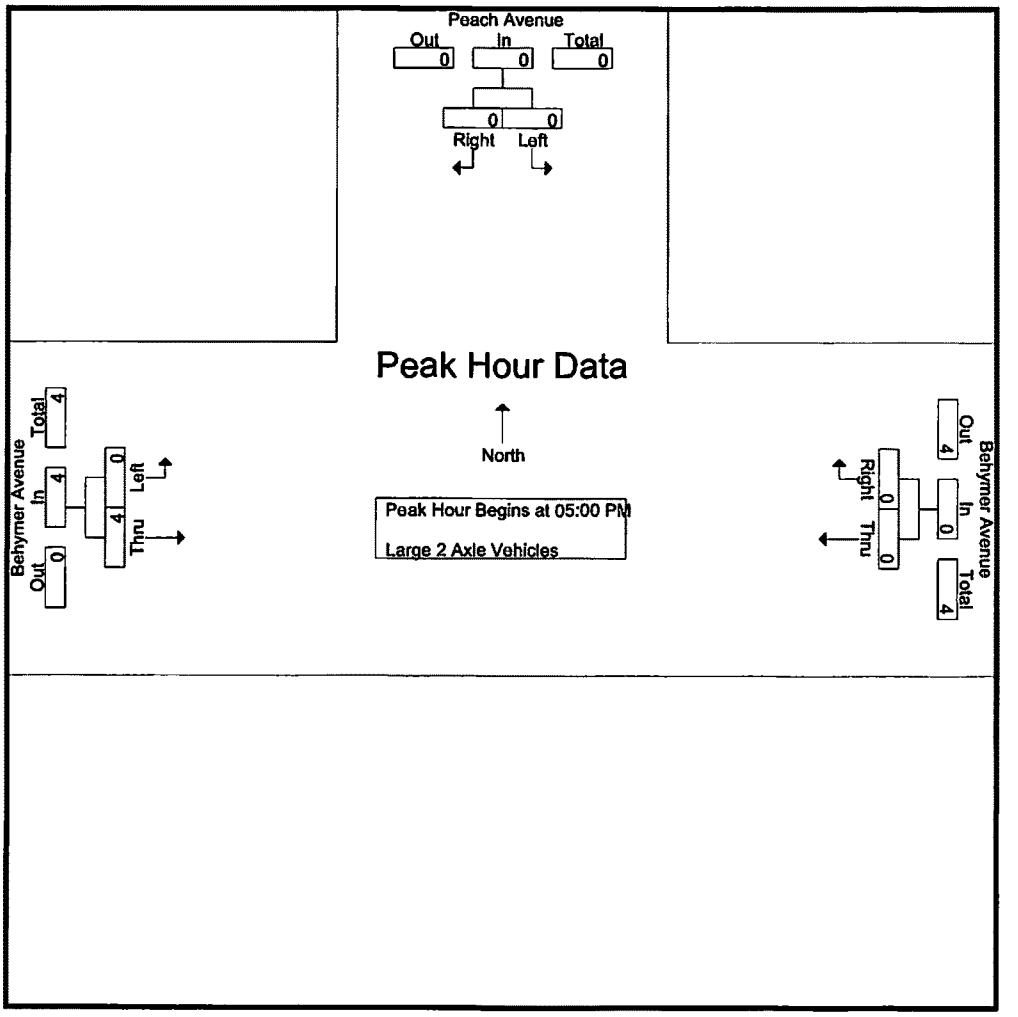
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 100 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .333 | .333 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Apprch % | 0 | 0 | | 0 | 0 | | 0 | 0 | | |
| Total % | | | | | | | | | | |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

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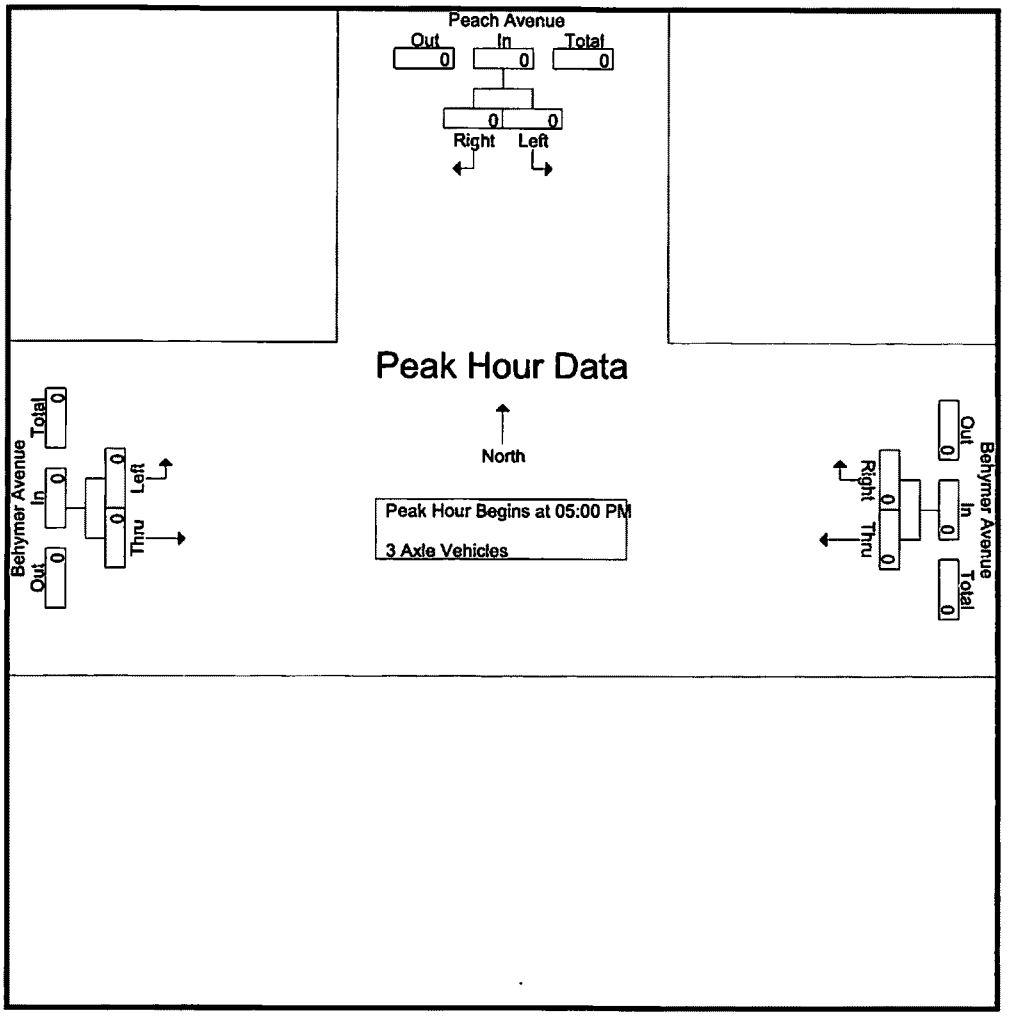
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Apprch % | 0 | 0 | | 0 | 0 | | 0 | 0 | | |
| Total % | | | | | | | | | | |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

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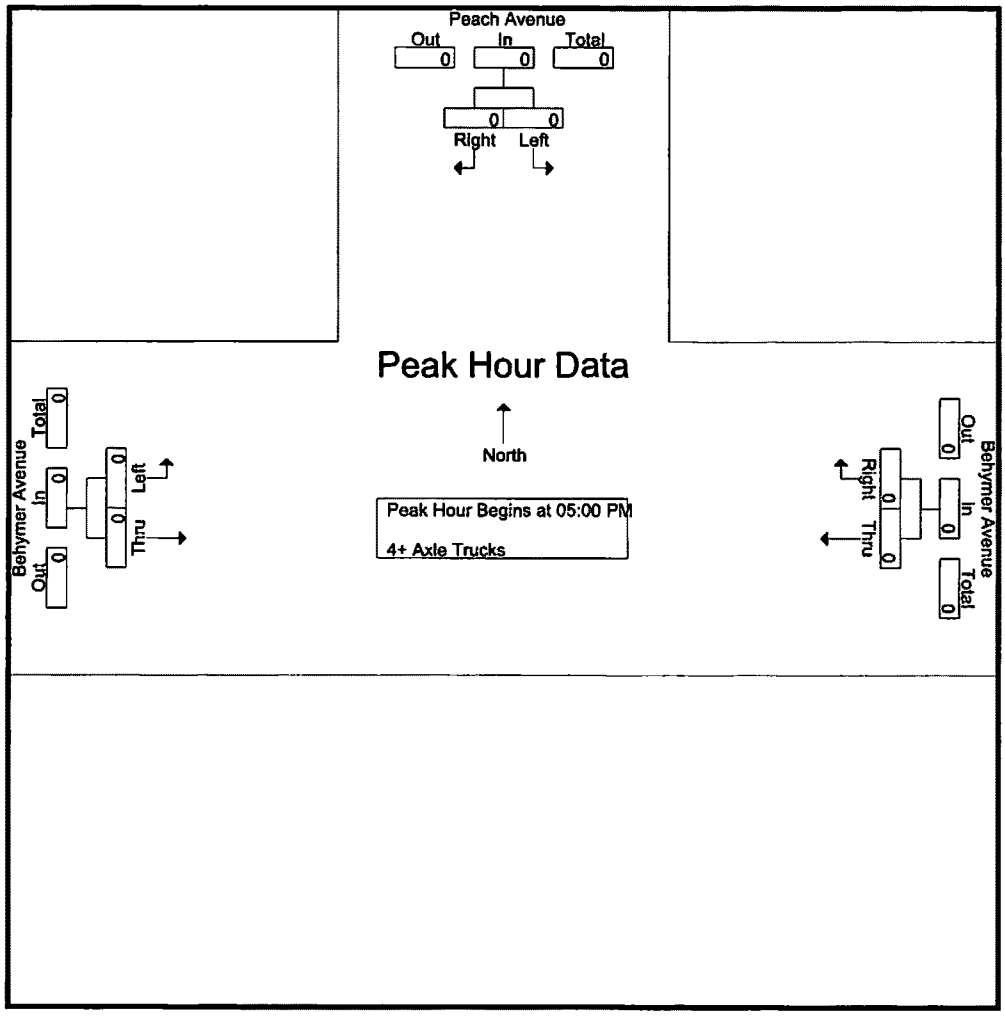
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

Location: Clovis
N/S: Peach Avenue
E/W: Behymer Avenue

Date: 3/6/2024
Day: Wednesday

**PEDESTRIANS**

| | North Leg<br>Peach Avenue<br>Pedestrians | East Leg<br>Behymer Avenue<br>Pedestrians | South Leg<br>Dead End<br>Pedestrians | West Leg<br>Behymer Avenue<br>Pedestrians | |
|---|---|---|---|---|---|
| 7:00 AM | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 |

| | North Leg<br>Peach Avenue<br>Pedestrians | East Leg<br>Behymer Avenue<br>Pedestrians | South Leg<br>Dead End<br>Pedestrians | West Leg<br>Behymer Avenue<br>Pedestrians | |
|---|---|---|---|---|---|
| 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 |

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Location: Clovis
N/S: Peach Avenue
E/W: Behymer Avenue

Date: 3/6/2024
Day: Wednesday

**BICYCLES**

| | Southbound Peach Avenue | | | Westbound Behymer Avenue | | | Northbound Dead End | | | Eastbound Behymer Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | Southbound Peach Avenue | | | Westbound Behymer Avenue | | | Northbound Dead End | | | Eastbound Behymer Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 27 | 30 | 0 | 57 | 7 | 34 | 31 | 72 | 5 | 38 | 2 | 45 | 1 | 21 | 8 | 30 | 204 |
| 07:15 AM | 29 | 34 | 2 | 65 | 4 | 49 | 47 | 100 | 8 | 42 | 7 | 57 | 2 | 28 | 12 | 42 | 264 |
| 07:30 AM | 51 | 55 | 1 | 107 | 7 | 68 | 48 | 123 | 29 | 36 | 6 | 71 | 2 | 40 | 13 | 55 | 356 |
| 07:45 AM | 27 | 61 | 4 | 92 | 14 | 56 | 57 | 127 | 22 | 48 | 2 | 72 | 1 | 35 | 37 | 73 | 364 |
| Total | 134 | 180 | 7 | 321 | 32 | 207 | 183 | 422 | 64 | 164 | 17 | 245 | 6 | 124 | 70 | 200 | 1188 |
| 08:00 AM | 27 | 60 | 0 | 87 | 9 | 32 | 76 | 117 | 9 | 62 | 8 | 79 | 0 | 44 | 15 | 59 | 342 |
| 08:15 AM | 34 | 45 | 1 | 80 | 11 | 39 | 84 | 134 | 13 | 72 | 5 | 90 | 1 | 30 | 15 | 46 | 350 |
| 08:30 AM | 63 | 48 | 0 | 111 | 4 | 32 | 35 | 71 | 8 | 62 | 6 | 76 | 1 | 37 | 9 | 47 | 305 |
| 08:45 AM | 31 | 35 | 0 | 66 | 3 | 46 | 32 | 81 | 6 | 31 | 6 | 43 | 0 | 28 | 12 | 40 | 230 |
| Total | 155 | 188 | 1 | 344 | 27 | 149 | 227 | 403 | 36 | 227 | 25 | 288 | 2 | 139 | 51 | 192 | 1227 |
| Grand Total | 289 | 368 | 8 | 665 | 59 | 356 | 410 | 825 | 100 | 391 | 42 | 533 | 8 | 263 | 121 | 392 | 2415 |
| Apprch % | 43.5 | 55.3 | 1.2 | | 7.2 | 43.2 | 49.7 | | 18.8 | 73.4 | 7.9 | | 2 | 67.1 | 30.9 | | |
| Total % | 12 | 15.2 | 0.3 | 27.5 | 2.4 | 14.7 | 17 | 34.2 | 4.1 | 16.2 | 1.7 | 22.1 | 0.3 | 10.9 | 5 | 16.2 | |
| Passenger Vehicles | 274 | 357 | 6 | 637 | 55 | 341 | 393 | 789 | 95 | 364 | 38 | 497 | 7 | 248 | 117 | 372 | 2295 |
| % Passenger Vehicles | 94.8 | 97 | 75 | 95.8 | 93.2 | 95.8 | 95.9 | 95.6 | 95 | 93.1 | 90.5 | 93.2 | 87.5 | 94.3 | 96.7 | 94.9 | 95 |
| Large 2 Axle Vehicles | 3 | 3 | 0 | 6 | 1 | 9 | 0 | 10 | 3 | 12 | 1 | 16 | 1 | 9 | 4 | 14 | 46 |
| % Large 2 Axle Vehicles | 1 | 0.8 | 0 | 0.9 | 1.7 | 2.5 | 0 | 1.2 | 3 | 3.1 | 2.4 | 3 | 12.5 | 3.4 | 3.3 | 3.6 | 1.9 |
| 3 Axle Vehicles | 7 | 4 | 1 | 12 | 0 | 2 | 6 | 8 | 1 | 6 | 1 | 8 | 0 | 5 | 0 | 5 | 33 |
| % 3 Axle Vehicles | 2.4 | 1.1 | 12.5 | 1.8 | 0 | 0.6 | 1.5 | 1 | 1 | 1.5 | 2.4 | 1.5 | 0 | 1.9 | 0 | 1.3 | 1.4 |
| 4+ Axle Trucks | 5 | 4 | 1 | 10 | 3 | 4 | 11 | 18 | 1 | 9 | 2 | 12 | 0 | 1 | 0 | 1 | 41 |
| % 4+ Axle Trucks | 1.7 | 1.1 | 12.5 | 1.5 | 5.1 | 1.1 | 2.7 | 2.2 | 1 | 2.3 | 4.8 | 2.3 | 0 | 0.4 | 0 | 0.3 | 1.7 |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | **51** | 55 | 1 | **107** | 7 | **68** | 48 | 123 | **29** | 36 | 6 | 71 | **2** | 40 | 13 | 55 | 356 |
| 07:45 AM | 27 | **61** | 4 | 92 | **14** | 56 | 57 | 127 | 22 | 48 | 2 | 72 | 1 | 35 | **37** | **73** | **364** |
| 08:00 AM | 27 | 60 | 0 | 87 | 9 | 32 | 76 | 117 | 9 | 62 | **8** | 79 | 0 | **44** | 15 | 59 | 342 |
| 08:15 AM | 34 | 45 | 1 | 80 | 11 | 39 | **84** | **134** | 13 | **72** | 5 | **90** | 1 | 30 | 15 | 46 | 350 |
| Total Volume | 139 | 221 | 6 | 366 | 41 | 195 | 265 | 501 | 73 | 218 | 21 | 312 | 4 | 149 | 80 | 233 | 1412 |
| % App. Total | 38 | 60.4 | 1.6 | | 8.2 | 38.9 | 52.9 | | 23.4 | 69.9 | 6.7 | | 1.7 | 63.9 | 34.3 | | |
| PHF | .681 | .906 | .375 | .855 | .732 | .717 | .789 | .935 | .629 | .757 | .656 | .867 | .500 | .847 | .541 | .798 | .970 |

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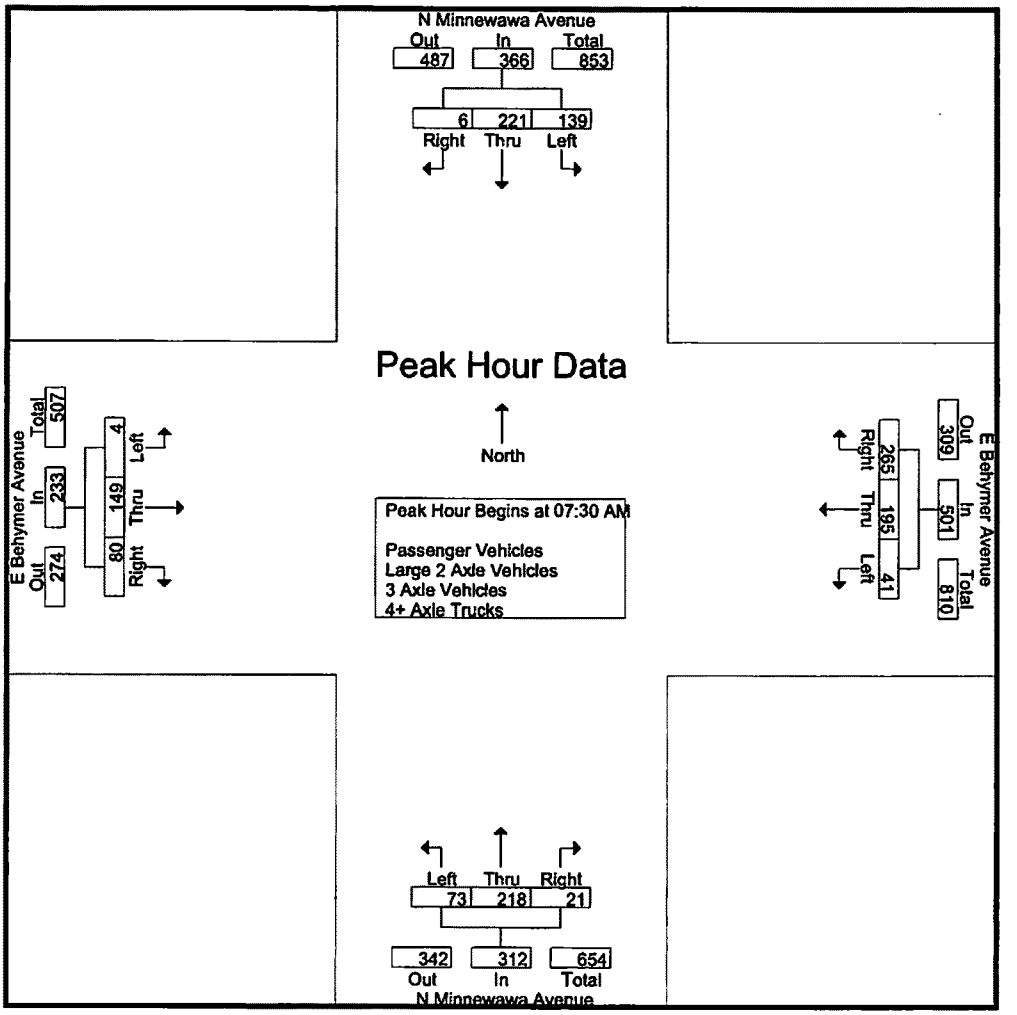
County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | | 07:30 AM | | | | 07:45 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 27 | **61** | 4 | 92 | 7 | **68** | 48 | 123 | **22** | 48 | 2 | 72 | **2** | 40 | 13 | 55 |
| +15 mins. | 27 | 60 | 0 | 87 | **14** | 56 | 57 | 127 | 9 | 62 | **8** | 79 | 1 | 35 | **37** | **73** |
| +30 mins. | 34 | 45 | 1 | 80 | 9 | 32 | 76 | 117 | 13 | **72** | 5 | **90** | 0 | **44** | 15 | 59 |
| +45 mins. | **63** | 48 | 0 | **111** | 11 | 39 | **84** | **134** | 8 | 62 | 6 | 76 | 1 | 30 | 15 | 46 |
| Total Volume | 151 | 214 | 5 | 370 | 41 | 195 | 265 | 501 | 52 | 244 | 21 | 317 | 4 | 149 | 80 | 233 |
| % App. Total | 40.8 | 57.8 | 1.4 | | 8.2 | 38.9 | 52.9 | | 16.4 | 77 | 6.6 | | 1.7 | 63.9 | 34.3 | |
| PHF | .599 | .877 | .313 | .833 | .732 | .717 | .789 | .935 | .591 | .847 | .656 | .881 | .500 | .847 | .541 | .798 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 27 | 29 | 0 | 56 | 5 | 32 | 27 | 64 | 5 | 34 | 2 | 41 | 1 | 20 | 8 | 29 | 190 |
| 07:15 AM | 28 | 33 | 2 | 63 | 4 | 49 | 45 | 98 | 8 | 40 | 7 | 55 | 1 | 25 | 12 | 38 | 254 |
| 07:30 AM | 50 | 54 | 0 | 104 | 7 | 66 | 48 | 121 | 29 | 32 | 5 | 66 | 2 | 39 | 13 | 54 | 345 |
| 07:45 AM | 27 | 61 | 3 | 91 | 14 | 49 | 55 | 118 | 19 | 45 | 2 | 66 | 1 | 32 | 36 | 69 | 344 |
| Total | 132 | 177 | 5 | 314 | 30 | 196 | 175 | 401 | 61 | 151 | 16 | 228 | 5 | 116 | 69 | 190 | 1133 |
| 08:00 AM | 26 | 58 | 0 | 84 | 8 | 29 | 73 | 110 | 9 | 58 | 7 | 74 | 0 | 42 | 15 | 57 | 325 |
| 08:15 AM | 32 | 43 | 1 | 76 | 11 | 39 | 82 | 132 | 12 | 67 | 4 | 83 | 1 | 29 | 12 | 42 | 333 |
| 08:30 AM | 58 | 46 | 0 | 104 | 3 | 32 | 34 | 69 | 8 | 60 | 6 | 74 | 1 | 36 | 9 | 46 | 293 |
| 08:45 AM | 26 | 33 | 0 | 59 | 3 | 45 | 29 | 77 | 5 | 28 | 5 | 38 | 0 | 25 | 12 | 37 | 211 |
| Total | 142 | 180 | 1 | 323 | 25 | 145 | 218 | 388 | 34 | 213 | 22 | 269 | 2 | 132 | 48 | 182 | 1162 |
| Grand Total | 274 | 357 | 6 | 637 | 55 | 341 | 393 | 789 | 95 | 364 | 38 | 497 | 7 | 248 | 117 | 372 | 2295 |
| Apprch % | 43 | 56 | 0.9 | | 7 | 43.2 | 49.8 | | 19.1 | 73.2 | 7.6 | | 1.9 | 66.7 | 31.5 | | |
| Total % | 11.9 | 15.6 | 0.3 | 27.8 | 2.4 | 14.9 | 17.1 | 34.4 | 4.1 | 15.9 | 1.7 | 21.7 | 0.3 | 10.8 | 5.1 | 16.2 | |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | **50** | 54 | 0 | **104** | 7 | **66** | 48 | 121 | **29** | 32 | 5 | 66 | **2** | 39 | 13 | 54 | **345** |
| 07:45 AM | 27 | **61** | **3** | 91 | 14 | 49 | 55 | 118 | 19 | 45 | 2 | 66 | 1 | 32 | **36** | **69** | 344 |
| 08:00 AM | 26 | 58 | 0 | 84 | 8 | 29 | 73 | 110 | 9 | 58 | **7** | 74 | 0 | **42** | 15 | 57 | 325 |
| 08:15 AM | 32 | 43 | 1 | 76 | 11 | 39 | **82** | **132** | 12 | **67** | 4 | **83** | 1 | 29 | 12 | 42 | 333 |
| Total Volume | 135 | 216 | 4 | 355 | 40 | 183 | 258 | 481 | 69 | 202 | 18 | 289 | 4 | 142 | 76 | 222 | 1347 |
| % App. Total | 38 | 60.8 | 1.1 | | 8.3 | 38 | 53.6 | | 23.9 | 69.9 | 6.2 | | 1.8 | 64 | 34.2 | | |
| PHF | .675 | .885 | .333 | .853 | .714 | .693 | .787 | .911 | .595 | .754 | .643 | .870 | .500 | .845 | .528 | .804 | .976 |

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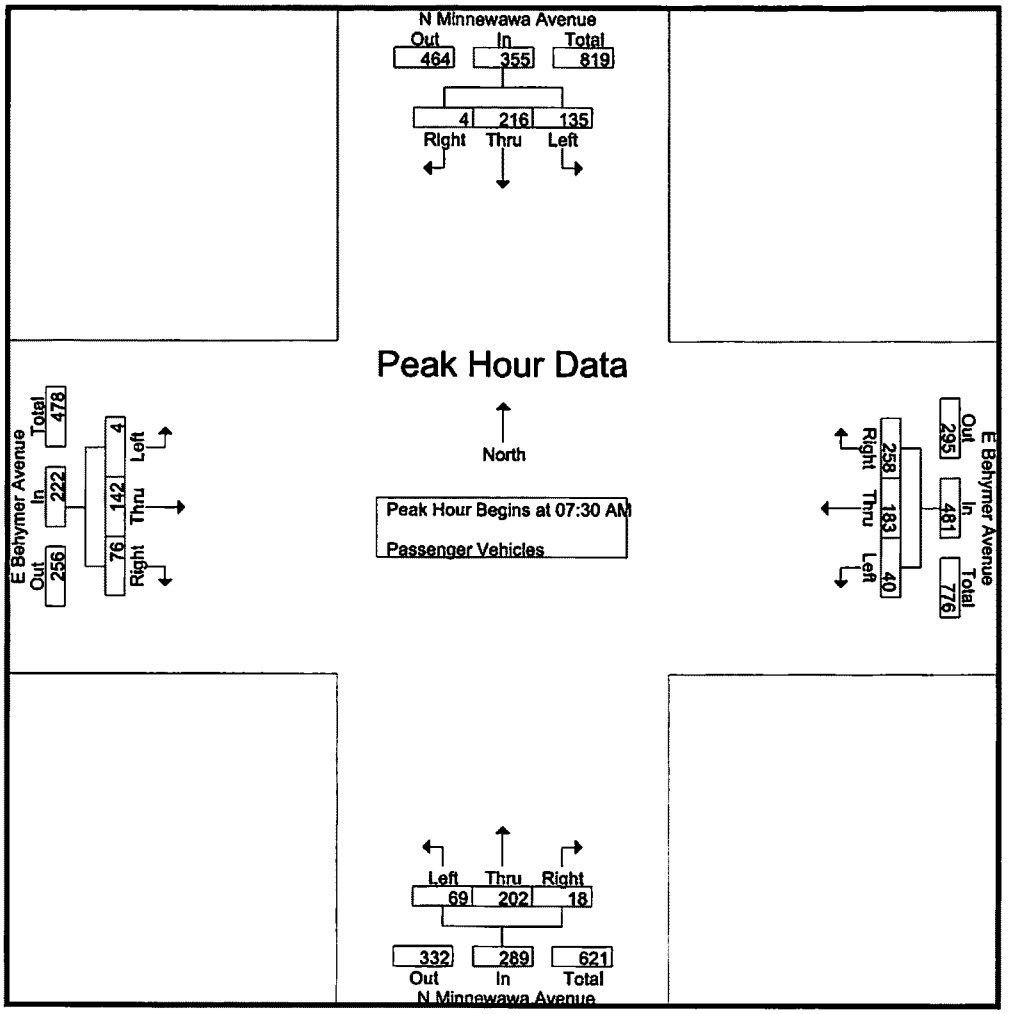
County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | **50** | 54 | 0 | 104 | 7 | **66** | 48 | 121 | **29** | 32 | 5 | 66 | **2** | 39 | 13 | 54 |
| +15 mins. | 27 | **61** | **3** | 91 | **14** | 49 | 55 | 118 | 19 | 45 | 2 | 66 | 1 | 32 | **36** | **69** |
| +30 mins. | 26 | 58 | 0 | 84 | 8 | 29 | 73 | 110 | 9 | 58 | **7** | 74 | 0 | **42** | 15 | 57 |
| +45 mins. | 32 | 43 | 1 | 76 | 11 | 39 | **82** | **132** | 12 | **67** | 4 | **83** | 1 | 29 | 12 | 42 |
| Total Volume | 135 | 216 | 4 | 355 | 40 | 183 | 258 | 481 | 69 | 202 | 18 | 289 | 4 | 142 | 76 | 222 |
| % App. Total | 38 | 60.8 | 1.1 | | 8.3 | 38 | 53.6 | | 23.9 | 69.9 | 6.2 | | 1.8 | 64 | 34.2 | |
| PHF | .675 | .885 | .333 | .853 | .714 | .693 | .787 | .911 | .595 | .754 | .643 | .870 | .500 | .845 | .528 | .804 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Mln_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 4 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 1 | 2 | 0 | 3 | 5 |
| 07:30 AM | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 6 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 2 | 2 | 0 | 4 | 0 | 2 | 1 | 3 | 12 |
| Total | 0 | 1 | 0 | 1 | 0 | 8 | 0 | 8 | 2 | 8 | 0 | 10 | 1 | 6 | 1 | 8 | 27 |
| 08:00 AM | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 5 |
| 08:15 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 3 | 4 | 6 |
| 08:30 AM | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 08:45 AM | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 1 | 5 |
| Total | 3 | 2 | 0 | 5 | 1 | 1 | 0 | 2 | 1 | 4 | 1 | 6 | 0 | 3 | 3 | 6 | 19 |
| Grand Total | 3 | 3 | 0 | 6 | 1 | 9 | 0 | 10 | 3 | 12 | 1 | 16 | 1 | 9 | 4 | 14 | 46 |
| Apprch % | 50 | 50 | 0 | | 10 | 90 | 0 | | 18.8 | 75 | 6.2 | | 7.1 | 64.3 | 28.6 | | |
| Total % | 6.5 | 6.5 | 0 | 13 | 2.2 | 19.6 | 0 | 21.7 | 6.5 | 26.1 | 2.2 | 34.8 | 2.2 | 19.6 | 8.7 | 30.4 | |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | **1** | 0 | **1** | 0 | 2 | 0 | 2 | 0 | **2** | 0 | 2 | 0 | 1 | 0 | 1 | 6 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | **5** | 0 | **5** | **2** | 2 | 0 | 4 | 0 | **2** | 1 | 3 | **12** |
| 08:00 AM | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 5 |
| 08:15 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | **3** | 4 | 6 |
| Total Volume | 0 | 3 | 0 | 3 | 0 | 8 | 0 | 8 | 2 | 7 | 0 | 9 | 0 | 5 | 4 | 9 | 29 |
| % App. Total | 0 | 100 | 0 | | 0 | 100 | 0 | | 22.2 | 77.8 | 0 | | 0 | 55.6 | 44.4 | | |
| PHF | .000 | .750 | .000 | .750 | .000 | .400 | .000 | .400 | .250 | .875 | .000 | .563 | .000 | .625 | .333 | .563 | .604 |

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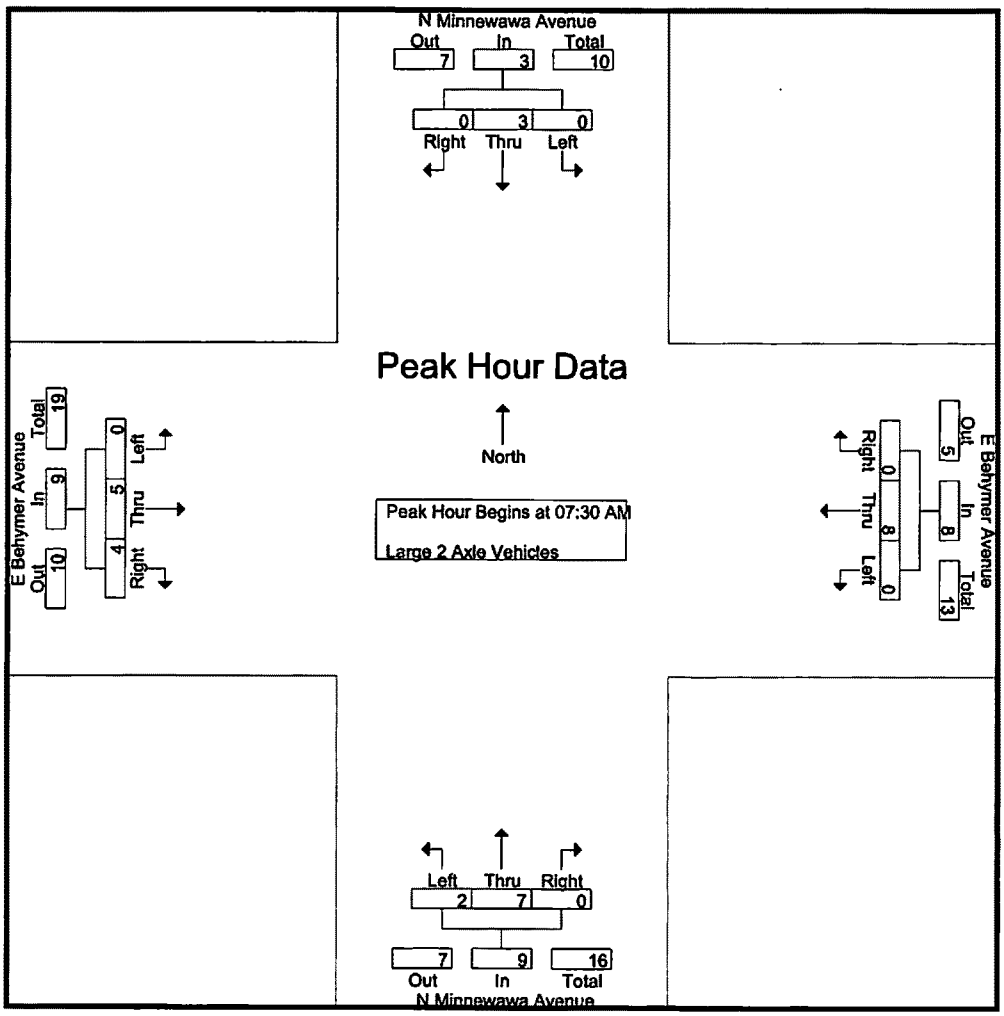
County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | **1** | 0 | **1** | 0 | **2** | 0 | **2** | 0 | **2** | 0 | **2** | 0 | **1** | 0 | **1** |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | **5** | 0 | **5** | **2** | 2 | 0 | 4 | 0 | **2** | 1 | 3 |
| +30 mins. | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 |
| +45 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | **3** | **4** |
| Total Volume | 0 | 3 | 0 | 3 | 0 | 8 | 0 | 8 | 2 | 7 | 0 | 9 | 0 | 5 | 4 | 9 |
| % App. Total | 0 | 100 | 0 | | 0 | 100 | 0 | | 22.2 | 77.8 | 0 | | 0 | 55.6 | 44.4 | |
| PHF | .000 | .750 | .000 | .750 | .000 | .400 | .000 | .400 | .250 | .875 | .000 | .563 | .000 | .625 | .333 | .563 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 07:15 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| 07:30 AM | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 3 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 5 |
| Total | 0 | 1 | 1 | 2 | 0 | 2 | 3 | 5 | 1 | 2 | 1 | 4 | 0 | 2 | 0 | 2 | 13 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 3 |
| 08:15 AM | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 5 |
| 08:30 AM | 4 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 08:45 AM | 2 | 1 | 0 | 3 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 7 |
| Total | 7 | 3 | 0 | 10 | 0 | 0 | 3 | 3 | 0 | 4 | 0 | 4 | 0 | 3 | 0 | 3 | 20 |
| Grand Total | 7 | 4 | 1 | 12 | 0 | 2 | 6 | 8 | 1 | 6 | 1 | 8 | 0 | 5 | 0 | 5 | 33 |
| Apprch % | 58.3 | 33.3 | 8.3 | | 0 | 25 | 75 | | 12.5 | 75 | 12.5 | | 0 | 100 | 0 | | |
| Total % | 21.2 | 12.1 | 3 | 36.4 | 0 | 6.1 | 18.2 | 24.2 | 3 | 18.2 | 3 | 24.2 | 0 | 15.2 | 0 | 15.2 | |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | 0 | **1** | 1 | 0 | 0 | 0 | 0 | 0 | 1 | **1** | **2** | 0 | 0 | 0 | 0 | 3 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | **2** | **1** | **3** | 1 | 0 | 0 | 1 | 0 | **1** | 0 | **1** | **5** |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 3 |
| 08:15 AM | **1** | **1** | 0 | **2** | 0 | 0 | 1 | 1 | 0 | **2** | 0 | 2 | 0 | 0 | 0 | 0 | 5 |
| Total Volume | 1 | 1 | 1 | 3 | 0 | 2 | 3 | 5 | 1 | 4 | 1 | 6 | 0 | 2 | 0 | 2 | 16 |
| % App. Total | 33.3 | 33.3 | 33.3 | | 0 | 40 | 60 | | 16.7 | 66.7 | 16.7 | | 0 | 100 | 0 | | |
| PHF | .250 | .250 | .250 | .375 | .000 | .250 | .750 | .417 | .250 | .500 | .250 | .750 | .000 | .500 | .000 | .500 | .800 |

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N/S: N Minnewawa Avenue
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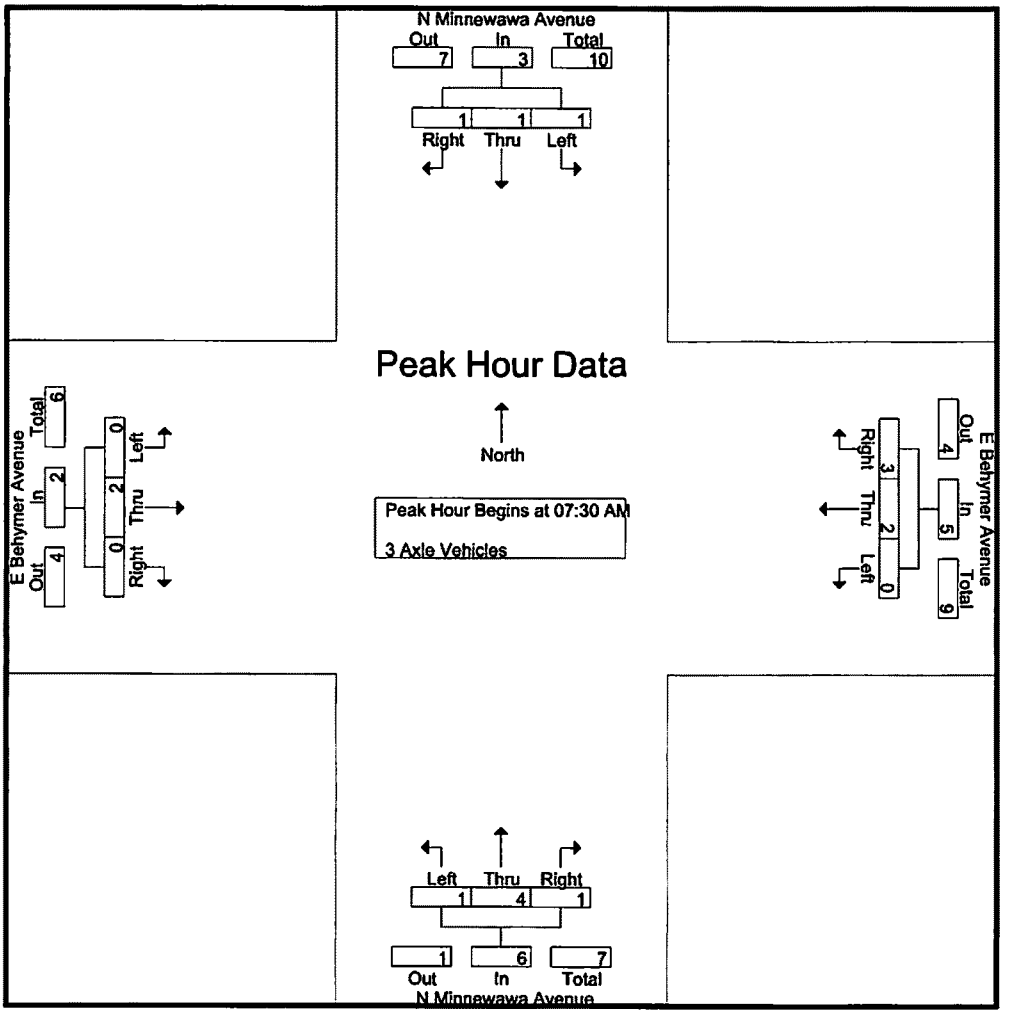
File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| +45 mins. | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| Total Volume | 1 | 1 | 1 | 3 | 0 | 2 | 3 | 5 | 1 | 4 | 1 | 6 | 0 | 2 | 0 | 2 |
| % App. Total | 33.3 | 33.3 | 33.3 | | 0 | 40 | 60 | | 16.7 | 66.7 | 16.7 | | 0 | 100 | 0 | |
| PHF | .250 | .250 | .250 | .375 | .000 | .250 | .750 | .417 | .250 | .500 | .250 | .750 | .000 | .500 | .000 | .500 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 1 | 0 | 1 | 2 | 1 | 2 | 5 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 7 |
| 07:15 AM | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 07:30 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 07:45 AM | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| Total | 2 | 1 | 1 | 4 | 2 | 1 | 5 | 8 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 15 |
| 08:00 AM | 1 | 1 | 0 | 2 | 1 | 2 | 2 | 5 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 9 |
| 08:15 AM | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 4 | 0 | 0 | 0 | 0 | 6 |
| 08:30 AM | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 4 |
| 08:45 AM | 1 | 1 | 0 | 2 | 0 | 1 | 2 | 3 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 7 |
| Total | 3 | 3 | 0 | 6 | 1 | 3 | 6 | 10 | 1 | 6 | 2 | 9 | 0 | 1 | 0 | 1 | 26 |
| Grand Total | 5 | 4 | 1 | 10 | 3 | 4 | 11 | 18 | 1 | 9 | 2 | 12 | 0 | 1 | 0 | 1 | 41 |
| Apprch % | 50 | 40 | 10 | | 16.7 | 22.2 | 61.1 | | 8.3 | 75 | 16.7 | | 0 | 100 | 0 | | |
| Total % | 12.2 | 9.8 | 2.4 | 24.4 | 7.3 | 9.8 | 26.8 | 43.9 | 2.4 | 22 | 4.9 | 29.3 | 0 | 2.4 | 0 | 2.4 | |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | **1** | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 07:45 AM | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 08:00 AM | 1 | 1 | 0 | **2** | **1** | **2** | **2** | **5** | 0 | 1 | **1** | 2 | 0 | 0 | 0 | 0 | **9** |
| 08:15 AM | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | **1** | **2** | 1 | **4** | 0 | 0 | 0 | 0 | 6 |
| Total Volume | 3 | 1 | 1 | 5 | 1 | 2 | 4 | 7 | 1 | 5 | 2 | 8 | 0 | 0 | 0 | 0 | 20 |
| % App. Total | 60 | 20 | 20 | | 14.3 | 28.6 | 57.1 | | 12.5 | 62.5 | 25 | | 0 | 0 | 0 | | |
| PHF | .750 | .250 | .250 | .625 | .250 | .250 | .500 | .350 | .250 | .625 | .500 | .500 | .000 | .000 | .000 | .000 | .556 |

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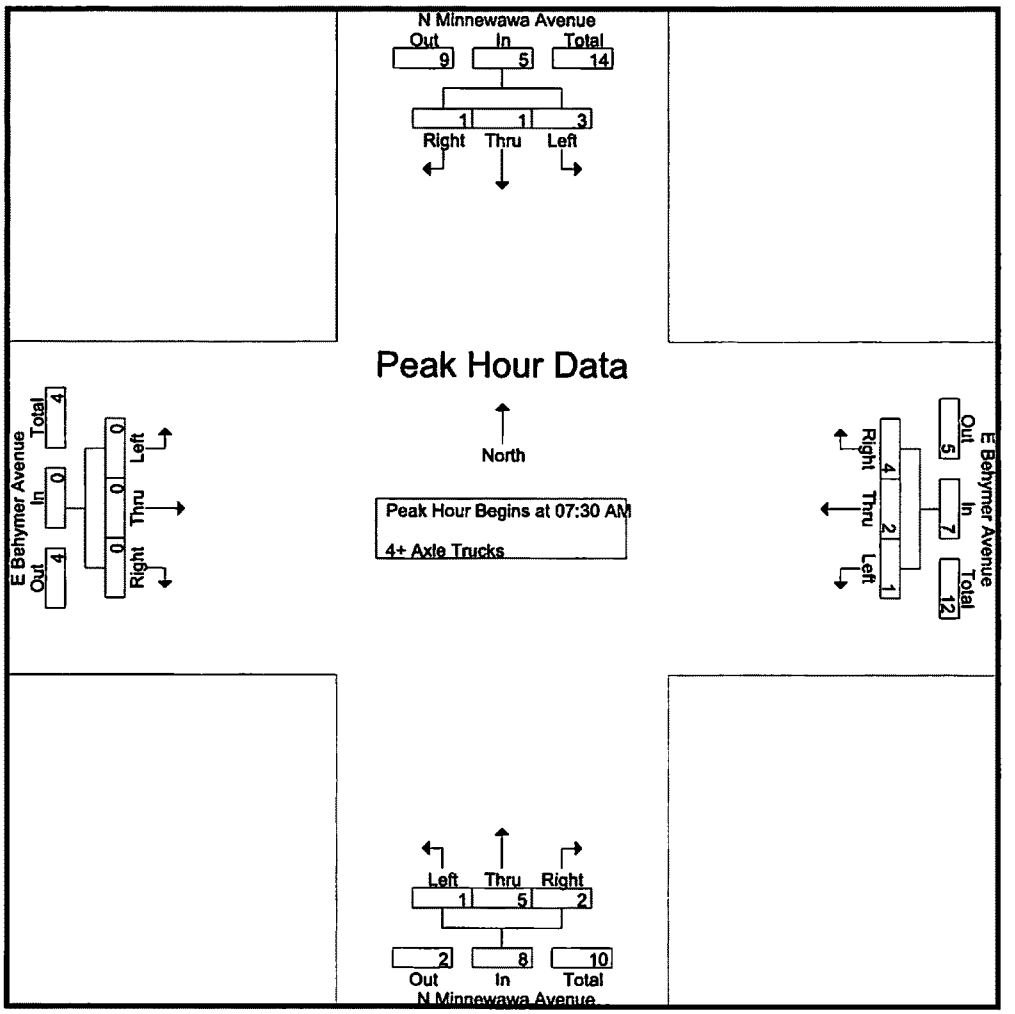
File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| +30 mins. | 1 | 1 | 0 | 2 | 1 | 2 | 2 | 5 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 |
| +45 mins. | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 4 | 0 | 0 | 0 | 0 |
| Total Volume | 3 | 1 | 1 | 5 | 1 | 2 | 4 | 7 | 1 | 5 | 2 | 8 | 0 | 0 | 0 | 0 |
| % App. Total | 60 | 20 | 20 | | 14.3 | 28.6 | 57.1 | | 12.5 | 62.5 | 25 | | 0 | 0 | 0 | |
| PHF | .750 | .250 | .250 | .625 | .250 | .250 | .500 | .350 | .250 | .625 | .500 | .500 | .000 | .000 | .000 | .000 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 44 | 50 | 0 | 94 | 6 | 22 | 35 | 63 | 17 | 54 | 12 | 83 | 1 | 35 | 8 | 44 | 284 |
| 04:15 PM | 29 | 50 | 1 | 80 | 4 | 34 | 38 | 76 | 14 | 54 | 4 | 72 | 0 | 33 | 5 | 38 | 266 |
| 04:30 PM | 36 | 52 | 0 | 88 | 9 | 40 | 40 | 89 | 8 | 50 | 8 | 66 | 2 | 30 | 10 | 42 | 285 |
| 04:45 PM | 30 | 49 | 1 | 80 | 6 | 39 | 36 | 81 | 12 | 56 | 6 | 74 | 1 | 31 | 8 | 40 | 275 |
| Total | 139 | 201 | 2 | 342 | 25 | 135 | 149 | 309 | 51 | 214 | 30 | 295 | 4 | 129 | 31 | 164 | 1110 |
| 05:00 PM | 40 | 48 | 0 | 88 | 11 | 44 | 29 | 84 | 15 | 44 | 8 | 67 | 2 | 44 | 14 | 60 | 299 |
| 05:15 PM | 48 | 42 | 1 | 91 | 11 | 61 | 47 | 119 | 9 | 66 | 8 | 83 | 0 | 38 | 9 | 47 | 340 |
| 05:30 PM | 45 | 47 | 0 | 92 | 5 | 51 | 37 | 93 | 15 | 70 | 6 | 91 | 1 | 35 | 10 | 46 | 322 |
| 05:45 PM | 25 | 33 | 2 | 60 | 7 | 63 | 39 | 109 | 13 | 69 | 11 | 93 | 1 | 30 | 12 | 43 | 305 |
| Total | 158 | 170 | 3 | 331 | 34 | 219 | 152 | 405 | 52 | 249 | 33 | 334 | 4 | 147 | 45 | 196 | 1266 |
| Grand Total | 297 | 371 | 5 | 673 | 59 | 354 | 301 | 714 | 103 | 463 | 63 | 629 | 8 | 276 | 76 | 360 | 2376 |
| Apprch % | 44.1 | 55.1 | 0.7 | | 8.3 | 49.6 | 42.2 | | 16.4 | 73.6 | 10 | | 2.2 | 76.7 | 21.1 | | |
| Total % | 12.5 | 15.6 | 0.2 | 28.3 | 2.5 | 14.9 | 12.7 | 30.1 | 4.3 | 19.5 | 2.7 | 26.5 | 0.3 | 11.6 | 3.2 | 15.2 | |
| Passenger Vehicles | 290 | 353 | 5 | 648 | 57 | 347 | 295 | 699 | 101 | 451 | 62 | 614 | 8 | 269 | 75 | 352 | 2313 |
| % Passenger Vehicles | 97.6 | 95.1 | 100 | 96.3 | 96.6 | 98 | 98 | 97.9 | 98.1 | 97.4 | 98.4 | 97.6 | 100 | 97.5 | 98.7 | 97.8 | 97.3 |
| Large 2 Axle Vehicles | 2 | 4 | 0 | 6 | 1 | 1 | 2 | 4 | 0 | 4 | 1 | 5 | 0 | 3 | 0 | 3 | 18 |
| % Large 2 Axle Vehicles | 0.7 | 1.1 | 0 | 0.9 | 1.7 | 0.3 | 0.7 | 0.6 | 0 | 0.9 | 1.6 | 0.8 | 0 | 1.1 | 0 | 0.8 | 0.8 |
| 3 Axle Vehicles | 1 | 7 | 0 | 8 | 1 | 1 | 1 | 3 | 1 | 3 | 0 | 4 | 0 | 4 | 0 | 4 | 19 |
| % 3 Axle Vehicles | 0.3 | 1.9 | 0 | 1.2 | 1.7 | 0.3 | 0.3 | 0.4 | 1 | 0.6 | 0 | 0.6 | 0 | 1.4 | 0 | 1.1 | 0.8 |
| 4+ Axle Trucks | 4 | 7 | 0 | 11 | 0 | 5 | 3 | 8 | 1 | 5 | 0 | 6 | 0 | 0 | 1 | 1 | 26 |
| % 4+ Axle Trucks | 1.3 | 1.9 | 0 | 1.6 | 0 | 1.4 | 1 | 1.1 | 1 | 1.1 | 0 | 1 | 0 | 0 | 1.3 | 0.3 | 1.1 |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 40 | **48** | 0 | 88 | **11** | 44 | 29 | 84 | **15** | 44 | 8 | 67 | **2** | **44** | **14** | **60** | 299 |
| 05:15 PM | **48** | 42 | 1 | 91 | 11 | 61 | **47** | **119** | 9 | 66 | 8 | 83 | 0 | 38 | 9 | 47 | **340** |
| 05:30 PM | 45 | 47 | 0 | **92** | 5 | 51 | 37 | 93 | 15 | **70** | 6 | 91 | 1 | 35 | 10 | 46 | 322 |
| 05:45 PM | 25 | 33 | **2** | 60 | 7 | **63** | 39 | 109 | 13 | 69 | **11** | **93** | 1 | 30 | 12 | 43 | 305 |
| Total Volume | 158 | 170 | 3 | 331 | 34 | 219 | 152 | 405 | 52 | 249 | 33 | 334 | 4 | 147 | 45 | 196 | 1266 |
| % App. Total | 47.7 | 51.4 | 0.9 | | 8.4 | 54.1 | 37.5 | | 15.6 | 74.6 | 9.9 | | 2 | 75 | 23 | | |
| PHF | .823 | .885 | .375 | .899 | .773 | .869 | .809 | .851 | .867 | .889 | .750 | .898 | .500 | .835 | .804 | .817 | .931 |

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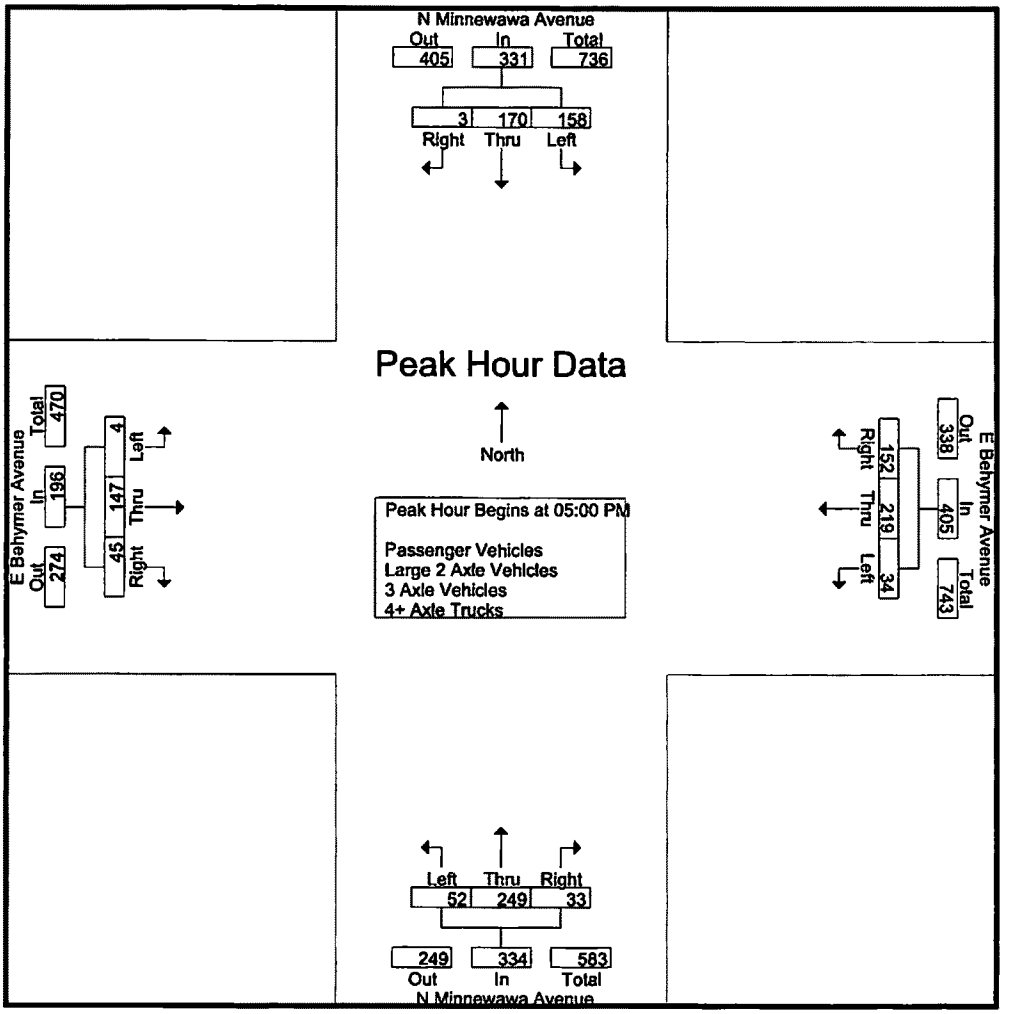
County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:45 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 30 | **49** | 1 | 80 | **11** | 44 | 29 | 84 | **15** | 44 | 8 | 67 | **2** | **44** | **14** | **60** |
| +15 mins. | 40 | 48 | 0 | 88 | 11 | 61 | **47** | **119** | 9 | 66 | 8 | 83 | 0 | 38 | 9 | 47 |
| +30 mins. | **48** | 42 | 1 | 91 | 5 | 51 | 37 | 93 | 15 | **70** | 6 | 91 | 1 | 35 | 10 | 46 |
| +45 mins. | 45 | 47 | 0 | **92** | 7 | **63** | 39 | 109 | 13 | 69 | **11** | **93** | 1 | 30 | 12 | 43 |
| Total Volume | 163 | 186 | 2 | 351 | 34 | 219 | 152 | 405 | 52 | 249 | 33 | 334 | 4 | 147 | 45 | 196 |
| % App. Total | 46.4 | 53 | 0.6 | | 8.4 | 54.1 | 37.5 | | 15.6 | 74.6 | 9.9 | | 2 | 75 | 23 | |
| PHF | .849 | .949 | .500 | .954 | .773 | .869 | .809 | .851 | .867 | .889 | .750 | .898 | .500 | .835 | .804 | .817 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 44 | 45 | 0 | 89 | 6 | 21 | 34 | 61 | 16 | 50 | 12 | 78 | 1 | 35 | 8 | 44 | 272 |
| 04:15 PM | 26 | 47 | 1 | 74 | 3 | 32 | 38 | 73 | 14 | 53 | 4 | 71 | 0 | 32 | 5 | 37 | 255 |
| 04:30 PM | 35 | 49 | 0 | 84 | 9 | 39 | 38 | 86 | 8 | 48 | 7 | 63 | 2 | 29 | 10 | 41 | 274 |
| 04:45 PM | 30 | 48 | 1 | 79 | 6 | 39 | 35 | 80 | 12 | 55 | 6 | 73 | 1 | 30 | 8 | 39 | 271 |
| Total | 135 | 189 | 2 | 326 | 24 | 131 | 145 | 300 | 50 | 206 | 29 | 285 | 4 | 126 | 31 | 161 | 1072 |
| 05:00 PM | 40 | 47 | 0 | 87 | 11 | 43 | 29 | 83 | 14 | 43 | 8 | 65 | 2 | 42 | 14 | 58 | 293 |
| 05:15 PM | 46 | 41 | 1 | 88 | 11 | 60 | 46 | 117 | 9 | 66 | 8 | 83 | 0 | 38 | 9 | 47 | 335 |
| 05:30 PM | 45 | 45 | 0 | 90 | 4 | 51 | 36 | 91 | 15 | 68 | 6 | 89 | 1 | 34 | 10 | 45 | 315 |
| 05:45 PM | 24 | 31 | 2 | 57 | 7 | 62 | 39 | 108 | 13 | 68 | 11 | 92 | 1 | 29 | 11 | 41 | 298 |
| Total | 155 | 164 | 3 | 322 | 33 | 216 | 150 | 399 | 51 | 245 | 33 | 329 | 4 | 143 | 44 | 191 | 1241 |
| Grand Total | 290 | 353 | 5 | 648 | 57 | 347 | 295 | 699 | 101 | 451 | 62 | 614 | 8 | 269 | 75 | 352 | 2313 |
| Apprch % | 44.8 | 54.5 | 0.8 | | 8.2 | 49.6 | 42.2 | | 16.4 | 73.5 | 10.1 | | 2.3 | 76.4 | 21.3 | | |
| Total % | 12.5 | 15.3 | 0.2 | 28 | 2.5 | 15 | 12.8 | 30.2 | 4.4 | 19.5 | 2.7 | 26.5 | 0.3 | 11.6 | 3.2 | 15.2 | |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 40 | 47 | 0 | 87 | **11** | 43 | 29 | 83 | 14 | 43 | 8 | 65 | **2** | 42 | **14** | **58** | 293 |
| 05:15 PM | **46** | 41 | 1 | 88 | 11 | 60 | **46** | **117** | 9 | 66 | 8 | 83 | 0 | 38 | 9 | 47 | **335** |
| 05:30 PM | 45 | 45 | 0 | **90** | 4 | 51 | 36 | 91 | **15** | **68** | 6 | 89 | 1 | 34 | 10 | 45 | 315 |
| 05:45 PM | 24 | 31 | **2** | 57 | 7 | **62** | 39 | 108 | 13 | 68 | **11** | **92** | 1 | 29 | 11 | 41 | 298 |
| Total Volume | 155 | 164 | 3 | 322 | 33 | 216 | 150 | 399 | 51 | 245 | 33 | 329 | 4 | 143 | 44 | 191 | 1241 |
| % App. Total | 48.1 | 50.9 | 0.9 | | 8.3 | 54.1 | 37.6 | | 15.5 | 74.5 | 10 | | 2.1 | 74.9 | 23 | | |
| PHF | .842 | .872 | .375 | .894 | .750 | .871 | .815 | .853 | .850 | .901 | .750 | .894 | .500 | .851 | .786 | .823 | .926 |

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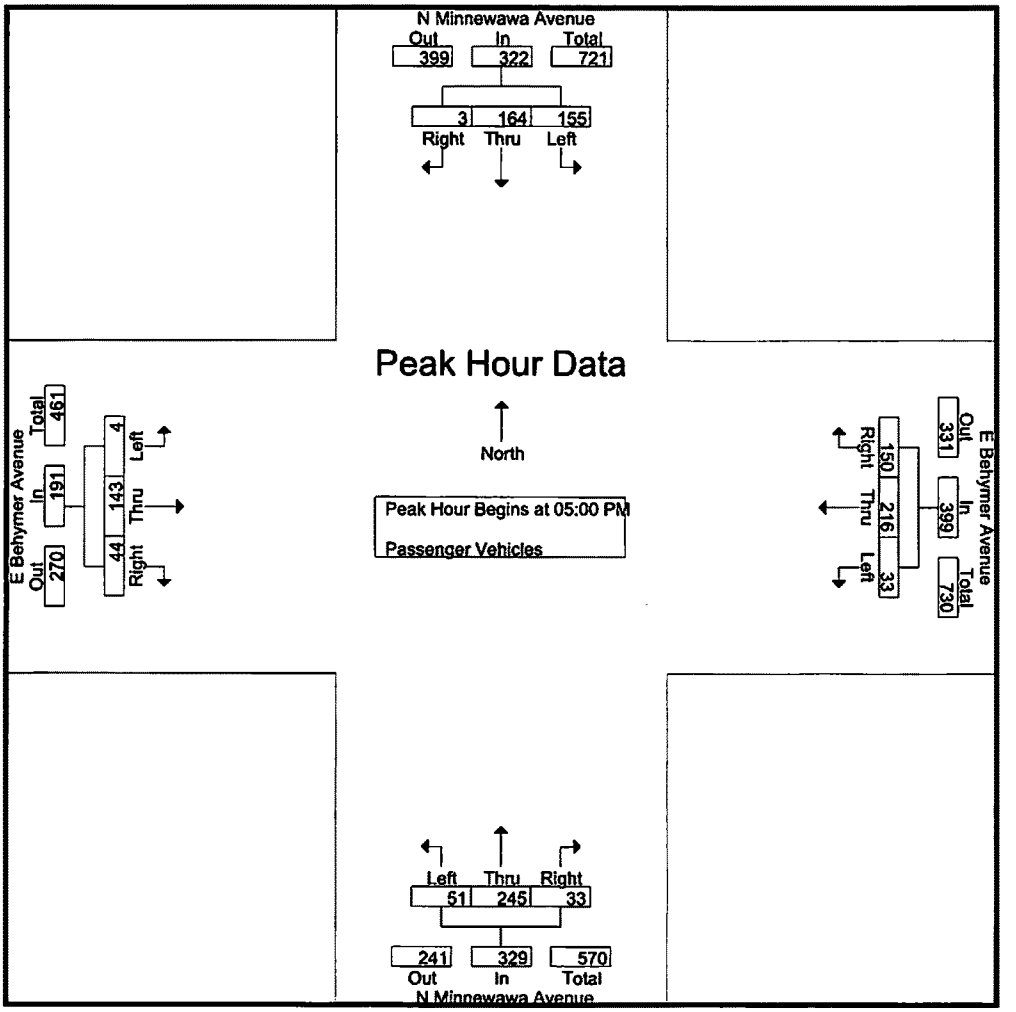
County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 40 | **47** | 0 | 87 | **11** | 43 | 29 | 83 | **14** | 43 | 8 | 65 | **2** | **42** | **14** | **58** |
| +15 mins. | **46** | 41 | 1 | 88 | 11 | 60 | **46** | **117** | 9 | 66 | 8 | 83 | 0 | 38 | 9 | 47 |
| +30 mins. | 45 | 45 | 0 | **90** | 4 | 51 | 36 | 91 | **15** | **68** | 6 | 89 | 1 | 34 | 10 | 45 |
| +45 mins. | 24 | 31 | **2** | 57 | 7 | **62** | 39 | 108 | 13 | 68 | **11** | **92** | 1 | 29 | 11 | 41 |
| Total Volume | 155 | 164 | 3 | 322 | 33 | 216 | 150 | 399 | 51 | 245 | 33 | 329 | 4 | 143 | 44 | 191 |
| % App. Total | 48.1 | 50.9 | 0.9 | | 8.3 | 54.1 | 37.6 | | 15.5 | 74.5 | 10 | | 2.1 | 74.9 | 23 | |
| PHF | .842 | .872 | .375 | .894 | .750 | .871 | .815 | .853 | .850 | .901 | .750 | .894 | .500 | .851 | .786 | .823 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| 04:15 PM | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 4 |
| 04:30 PM | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 4 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2 | 1 | 0 | 3 | 1 | 1 | 1 | 3 | 0 | 2 | 1 | 3 | 0 | 2 | 0 | 2 | 11 |
| 05:00 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 3 |
| Total | 0 | 3 | 0 | 3 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 7 |
| Grand Total | 2 | 4 | 0 | 6 | 1 | 1 | 2 | 4 | 0 | 4 | 1 | 5 | 0 | 3 | 0 | 3 | 18 |
| Apprch % | 33.3 | 66.7 | 0 | | 25 | 25 | 50 | | 0 | 80 | 20 | | 0 | 100 | 0 | | |
| Total % | 11.1 | 22.2 | 0 | 33.3 | 5.6 | 5.6 | 11.1 | 22.2 | 0 | 22.2 | 5.6 | 27.8 | 0 | 16.7 | 0 | 16.7 | |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 3 |
| Total Volume | 0 | 3 | 0 | 3 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 7 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 100 | | 0 | 100 | 0 | | 0 | 100 | 0 | | |
| PHF | .000 | .750 | .000 | .750 | .000 | .000 | .250 | .250 | .000 | .500 | .000 | .500 | .000 | .250 | .000 | .250 | .583 |

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County of Fresno
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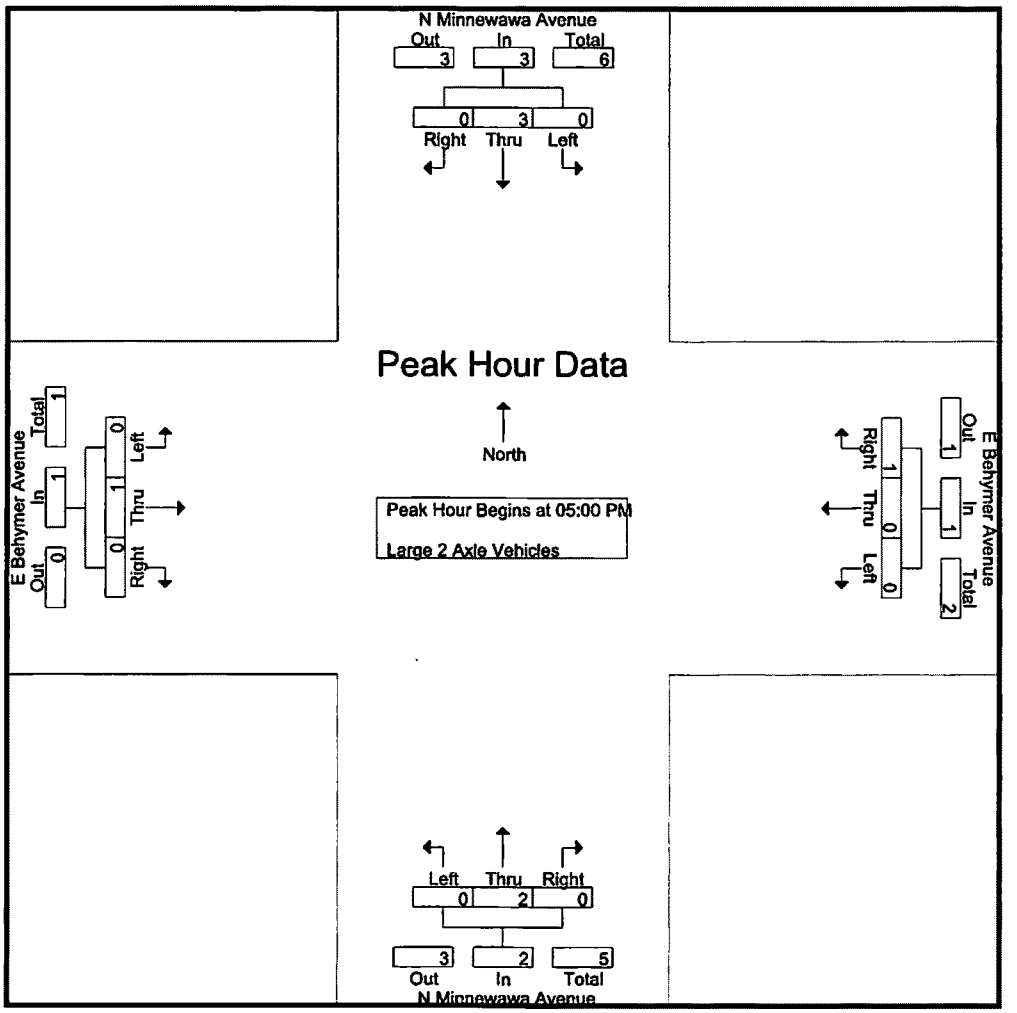
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | **1** | 0 | **1** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 1 | 0 | 1 | 0 | 0 | **1** | **1** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 0 | **1** | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | **1** |
| Total Volume | 0 | 3 | 0 | 3 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 100 | | 0 | 100 | 0 | | 0 | 100 | 0 | |
| PHF | .000 | .750 | .000 | .750 | .000 | .000 | .250 | .250 | .000 | .500 | .000 | .500 | .000 | .250 | .000 | .250 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 04:15 PM | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 04:30 PM | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| Total | 0 | 6 | 0 | 6 | 0 | 1 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 10 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 2 | 4 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 4 |
| 05:45 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 3 | 0 | 3 | 9 |
| Grand Total | 1 | 7 | 0 | 8 | 1 | 1 | 1 | 3 | 1 | 3 | 0 | 4 | 0 | 4 | 0 | 4 | 19 |
| Apprch % | 12.5 | 87.5 | 0 | | 33.3 | 33.3 | 33.3 | | 25 | 75 | 0 | | 0 | 100 | 0 | | |
| Total % | 5.3 | 36.8 | 0 | 42.1 | 5.3 | 5.3 | 5.3 | 15.8 | 5.3 | 15.8 | 0 | 21.1 | 0 | 21.1 | 0 | 21.1 | |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 2 | 4 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 4 |
| 05:45 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total Volume | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 3 | 0 | 3 | 9 |
| % App. Total | 50 | 50 | 0 | | 100 | 0 | 0 | | 33.3 | 66.7 | 0 | | 0 | 100 | 0 | | |
| PHF | .250 | .250 | .000 | .500 | .250 | .000 | .000 | .250 | .250 | .500 | .000 | .375 | .000 | .375 | .000 | .375 | .563 |

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File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
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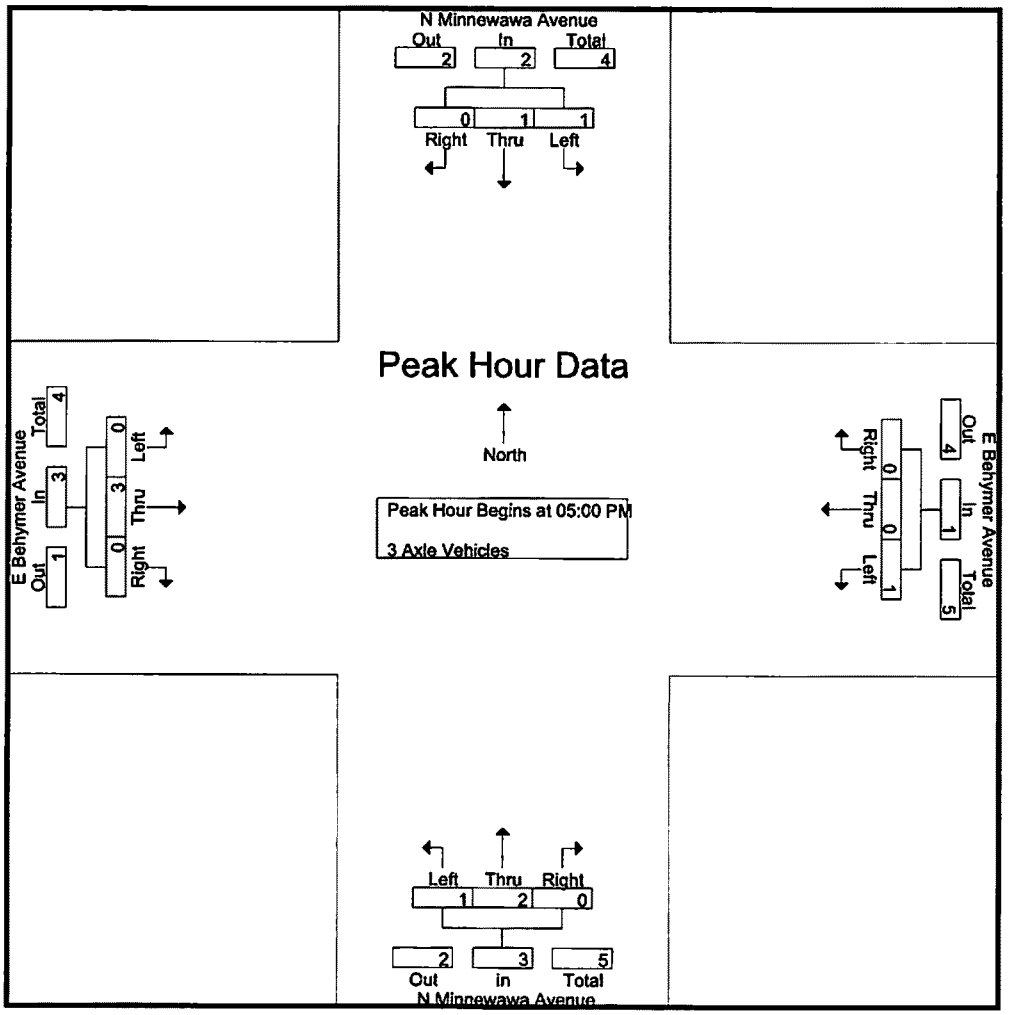
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 2 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| +45 mins. | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 3 | 0 | 3 |
| % App. Total | 50 | 50 | 0 | | 100 | 0 | 0 | | 33.3 | 66.7 | 0 | | 0 | 100 | 0 | |
| PHF | .250 | .250 | .000 | .500 | .250 | .000 | .000 | .250 | .250 | .500 | .000 | .375 | .000 | .375 | .000 | .375 |

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Corona, CA 92878
(951) 268-6268

County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 5 |
| 04:15 PM | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 5 |
| 04:30 PM | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 4 |
| 04:45 PM | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| Total | 2 | 5 | 0 | 7 | 0 | 2 | 2 | 4 | 1 | 5 | 0 | 6 | 0 | 0 | 0 | 0 | 17 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 05:30 PM | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 05:45 PM | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 |
| Total | 2 | 2 | 0 | 4 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 9 |
| Grand Total | 4 | 7 | 0 | 11 | 0 | 5 | 3 | 8 | 1 | 5 | 0 | 6 | 0 | 0 | 1 | 1 | 26 |
| Apprch % | 36.4 | 63.6 | 0 | | 0 | 62.5 | 37.5 | | 16.7 | 83.3 | 0 | | 0 | 0 | 100 | | |
| Total % | 15.4 | 26.9 | 0 | 42.3 | 0 | 19.2 | 11.5 | 30.8 | 3.8 | 19.2 | 0 | 23.1 | 0 | 0 | 3.8 | 3.8 | |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 05:30 PM | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 05:45 PM | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 |
| Total Volume | 2 | 2 | 0 | 4 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 9 |
| % App. Total | 50 | 50 | 0 | | 0 | 75 | 25 | | 0 | 0 | 0 | | 0 | 0 | 100 | | |
| PHF | .250 | .500 | .000 | .500 | .000 | .750 | .250 | 1.00 | .000 | .000 | .000 | .000 | .000 | .000 | .250 | .250 | .750 |

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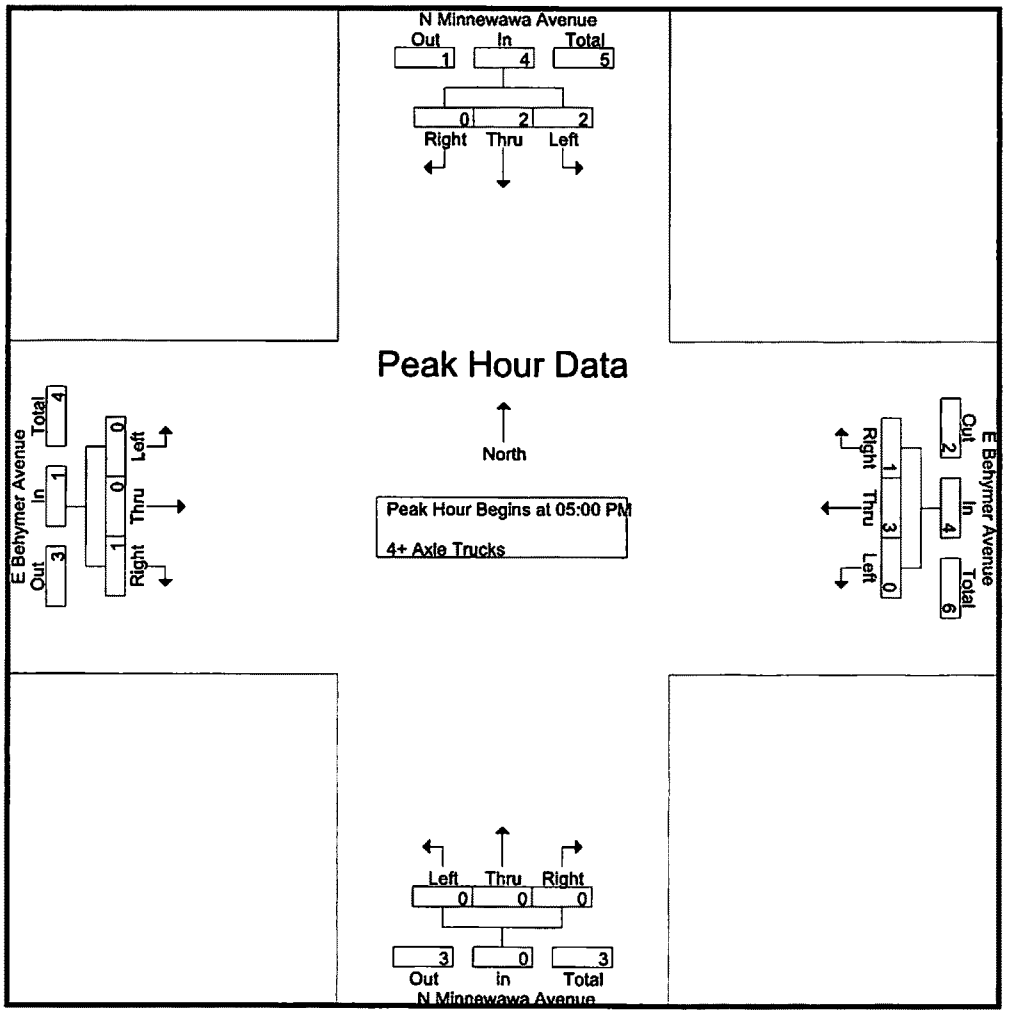
County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total Volume | 2 | 2 | 0 | 4 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| % App. Total | 50 | 50 | 0 | | 0 | 75 | 25 | | 0 | 0 | 0 | | 0 | 0 | 100 | |
| PHF | .250 | .500 | .000 | .500 | .000 | .750 | .250 | 1.000 | .000 | .000 | .000 | .000 | .000 | .000 | .250 | .250 |

Location: Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue

Date: 5/23/2024
Day: Thursday

**PEDESTRIANS**

| | North Leg<br>N Minnewawa Avenue | East Leg<br>E Behymer Avenue | South Leg<br>N Minnewawa Avenue | West Leg<br>E Behymer Avenue | |
|---|---|---|---|---|---|
| | Pedestrians | Pedestrians | Pedestrians | Pedestrians | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 1 | 1 |
| 8:45 AM | 0 | 7 | 0 | 0 | 7 |
| TOTAL VOLUMES: | 0 | 7 | 0 | 1 | 8 |

| | North Leg<br>N Minnewawa Avenue | East Leg<br>E Behymer Avenue | South Leg<br>N Minnewawa Avenue | West Leg<br>E Behymer Avenue | |
|---|---|---|---|---|---|
| | Pedestrians | Pedestrians | Pedestrians | Pedestrians | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 |

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951-268-6268

Location: Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue

Date: 5/23/2024
Day: Thursday

**BICYCLES**

| | Southbound N Minnewawa Avenue | | | Westbound E Behymer Avenue | | | Northbound N Minnewawa Avenue | | | Eastbound E Behymer Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:15 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |

| | Southbound N Minnewawa Avenue | | | Westbound E Behymer Avenue | | | Northbound N Minnewawa Avenue | | | Eastbound E Behymer Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road
Weather: Clear

File Name : 05_CFO_Min_Per AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Total Volume

| | N Minnewawa Avenue Southbound | | | | Perrin Road Westbound | | | | N Minnewawa Avenue Northbound | | | | Perrin Road Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 43 | 0 | 43 | 0 | 0 | 0 | 0 | 1 | 44 | 2 | 47 | 3 | 0 | 1 | 4 | 94 |
| 07:15 AM | 0 | 47 | 1 | 48 | 0 | 0 | 0 | 0 | 1 | 55 | 1 | 57 | 3 | 0 | 1 | 4 | 109 |
| 07:30 AM | 0 | 74 | 3 | 77 | 0 | 0 | 1 | 1 | 1 | 67 | 0 | 68 | 1 | 0 | 1 | 2 | 148 |
| 07:45 AM | 2 | 108 | 0 | 110 | 3 | 0 | 0 | 3 | 1 | 68 | 3 | 72 | 2 | 0 | 1 | 3 | 188 |
| Total | 2 | 272 | 4 | 278 | 3 | 0 | 1 | 4 | 4 | 234 | 6 | 244 | 9 | 0 | 4 | 13 | 539 |
| 08:00 AM | 0 | 84 | 1 | 85 | 1 | 0 | 0 | 1 | 0 | 83 | 3 | 86 | 3 | 0 | 1 | 4 | 176 |
| 08:15 AM | 0 | 71 | 2 | 73 | 0 | 0 | 1 | 1 | 1 | 91 | 5 | 97 | 2 | 0 | 0 | 2 | 173 |
| 08:30 AM | 0 | 61 | 1 | 62 | 1 | 0 | 0 | 1 | 0 | 67 | 2 | 69 | 0 | 0 | 1 | 1 | 133 |
| 08:45 AM | 0 | 46 | 0 | 46 | 1 | 0 | 0 | 1 | 0 | 42 | 3 | 45 | 1 | 0 | 0 | 1 | 93 |
| Total | 0 | 262 | 4 | 266 | 3 | 0 | 1 | 4 | 1 | 283 | 13 | 297 | 6 | 0 | 2 | 8 | 575 |
| Grand Total | 2 | 534 | 8 | 544 | 6 | 0 | 2 | 8 | 5 | 517 | 19 | 541 | 15 | 0 | 6 | 21 | 1114 |
| Apprch % | 0.4 | 98.2 | 1.5 | | 75 | 0 | 25 | | 0.9 | 95.6 | 3.5 | | 71.4 | 0 | 28.6 | | |
| Total % | 0.2 | 47.9 | 0.7 | 48.8 | 0.5 | 0 | 0.2 | 0.7 | 0.4 | 46.4 | 1.7 | 48.6 | 1.3 | 0 | 0.5 | 1.9 | |

| | N Minnewawa Avenue Southbound | | | | Perrin Road Westbound | | | | N Minnewawa Avenue Northbound | | | | Perrin Road Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | 74 | **3** | 77 | 0 | 0 | **1** | 1 | 1 | 67 | 0 | 68 | 1 | 0 | **1** | 2 | 148 |
| 07:45 AM | **2** | **108** | 0 | **110** | **3** | 0 | 0 | **3** | 1 | 68 | 3 | 72 | 2 | 0 | 1 | 3 | **188** |
| 08:00 AM | 0 | 84 | 1 | 85 | 1 | 0 | 0 | 1 | 0 | 83 | 3 | 86 | **3** | 0 | 1 | 4 | 176 |
| 08:15 AM | 0 | 71 | 2 | 73 | 0 | 0 | 1 | 1 | 1 | 91 | **5** | **97** | 2 | 0 | 0 | 2 | 173 |
| Total Volume | 2 | 337 | 6 | 345 | 4 | 0 | 2 | 6 | 3 | 309 | 11 | 323 | 8 | 0 | 3 | 11 | 685 |
| % App. Total | 0.6 | 97.7 | 1.7 | | 66.7 | 0 | 33.3 | | 0.9 | 95.7 | 3.4 | | 72.7 | 0 | 27.3 | | |
| PHF | .250 | .780 | .500 | .784 | .333 | .000 | .500 | .500 | .750 | .849 | .550 | .832 | .667 | .000 | .750 | .688 | .911 |

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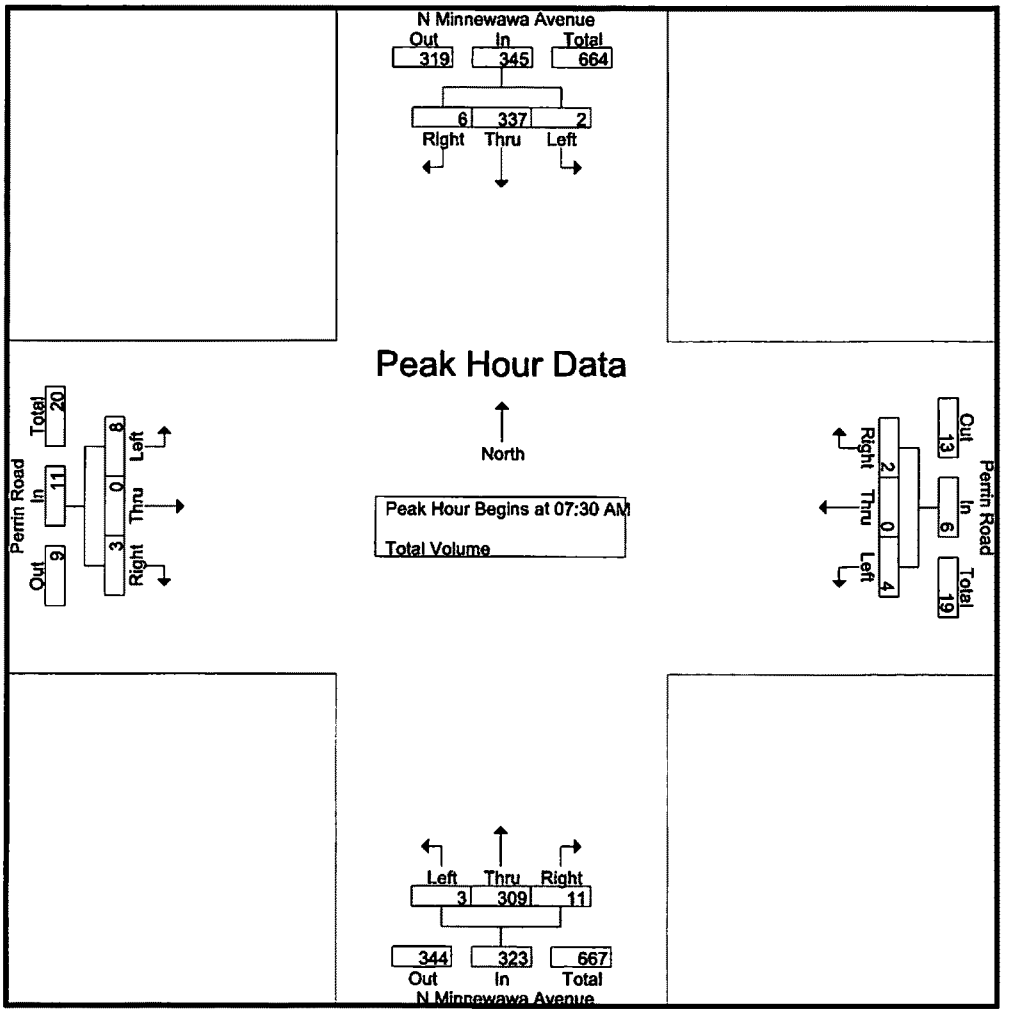
(951) 268-6268

County of Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road
Weather: Clear

Fiie Name : 05_CFO_Min_Per AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Anaiysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:45 AM | | | | 07:00 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 74 | **3** | 77 | 0 | 0 | **1** | 1 | **1** | 68 | 3 | 72 | **3** | 0 | **1** | 4 |
| +15 mins. | **2** | **108** | 0 | **110** | **3** | 0 | 0 | **3** | 0 | 83 | 3 | 86 | 3 | 0 | 1 | 4 |
| +30 mins. | 0 | 84 | 1 | 85 | 1 | 0 | 0 | 1 | 1 | **91** | **5** | **97** | 1 | 0 | 1 | 2 |
| +45 mins. | 0 | 71 | 2 | 73 | 0 | 0 | 1 | 1 | 0 | 67 | 2 | 69 | 2 | 0 | 1 | 3 |
| Total Volume | 2 | 337 | 6 | 345 | 4 | 0 | 2 | 6 | 2 | 309 | 13 | 324 | 9 | 0 | 4 | 13 |
| % App. Total | 0.6 | 97.7 | 1.7 | | 66.7 | 0 | 33.3 | | 0.6 | 95.4 | 4 | | 69.2 | 0 | 30.8 | |
| PHF | .250 | .780 | .500 | .784 | .333 | .000 | .500 | .500 | .500 | .849 | .650 | .835 | .750 | .000 | 1.000 | .813 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road
Weather: Clear

File Name : 05_CFO_Min_Per PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Total Volume

| | N Minnewawa Avenue Southbound | | | | Perrin Road Westbound | | | | N Minnewawa Avenue Northbound | | | | Perrin Road Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 2 | 61 | 0 | 63 | 1 | 0 | 0 | 1 | 0 | 83 | 1 | 84 | 0 | 0 | 1 | 1 | 149 |
| 04:15 PM | 0 | 58 | 1 | 59 | 0 | 0 | 0 | 0 | 0 | 65 | 1 | 66 | 0 | 0 | 0 | 0 | 125 |
| 04:30 PM | 0 | 66 | 0 | 66 | 0 | 0 | 0 | 0 | 1 | 69 | 1 | 71 | 0 | 0 | 1 | 1 | 138 |
| 04:45 PM | 0 | 65 | 0 | 65 | 1 | 0 | 0 | 1 | 0 | 75 | 0 | 75 | 0 | 0 | 0 | 0 | 141 |
| Total | 2 | 250 | 1 | 253 | 2 | 0 | 0 | 2 | 1 | 292 | 3 | 296 | 0 | 0 | 2 | 2 | 553 |
| 05:00 PM | 0 | 70 | 0 | 70 | 2 | 0 | 0 | 2 | 0 | 70 | 0 | 70 | 0 | 0 | 0 | 0 | 142 |
| 05:15 PM | 0 | 67 | 0 | 67 | 1 | 0 | 2 | 3 | 0 | 83 | 0 | 83 | 0 | 0 | 0 | 0 | 153 |
| 05:30 PM | 0 | 59 | 0 | 59 | 5 | 0 | 0 | 5 | 0 | 94 | 0 | 94 | 0 | 0 | 1 | 1 | 159 |
| 05:45 PM | 0 | 54 | 1 | 55 | 1 | 0 | 0 | 1 | 0 | 91 | 2 | 93 | 0 | 0 | 1 | 1 | 150 |
| Total | 0 | 250 | 1 | 251 | 9 | 0 | 2 | 11 | 0 | 338 | 2 | 340 | 0 | 0 | 2 | 2 | 604 |
| Grand Total | 2 | 500 | 2 | 504 | 11 | 0 | 2 | 13 | 1 | 630 | 5 | 636 | 0 | 0 | 4 | 4 | 1157 |
| Apprch % | 0.4 | 99.2 | 0.4 | | 84.6 | 0 | 15.4 | | 0.2 | 99.1 | 0.8 | | 0 | 0 | 100 | | |
| Total % | 0.2 | 43.2 | 0.2 | 43.6 | 1 | 0 | 0.2 | 1.1 | 0.1 | 54.5 | 0.4 | 55 | 0 | 0 | 0.3 | 0.3 | |

| | N Minnewawa Avenue Southbound | | | | Perrin Road Westbound | | | | N Minnewawa Avenue Northbound | | | | Perrin Road Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | **70** | 0 | **70** | 2 | 0 | 0 | 2 | 0 | 70 | 0 | 70 | 0 | 0 | 0 | 0 | 142 |
| 05:15 PM | 0 | 67 | 0 | 67 | 1 | 0 | **2** | 3 | 0 | 83 | 0 | 83 | 0 | 0 | 0 | 0 | 153 |
| 05:30 PM | 0 | 59 | 0 | 59 | **5** | 0 | 0 | **5** | 0 | **94** | 0 | **94** | 0 | 0 | **1** | **1** | **159** |
| 05:45 PM | 0 | 54 | **1** | 55 | 1 | 0 | 0 | 1 | 0 | 91 | **2** | 93 | 0 | 0 | 1 | 1 | 150 |
| Total Volume | 0 | 250 | 1 | 251 | 9 | 0 | 2 | 11 | 0 | 338 | 2 | 340 | 0 | 0 | 2 | 2 | 604 |
| % App. Total | 0 | 99.6 | 0.4 | | 81.8 | 0 | 18.2 | | 0 | 99.4 | 0.6 | | 0 | 0 | 100 | | |
| PHF | .000 | .893 | .250 | .896 | .450 | .000 | .250 | .550 | .000 | .899 | .250 | .904 | .000 | .000 | .500 | .500 | .950 |

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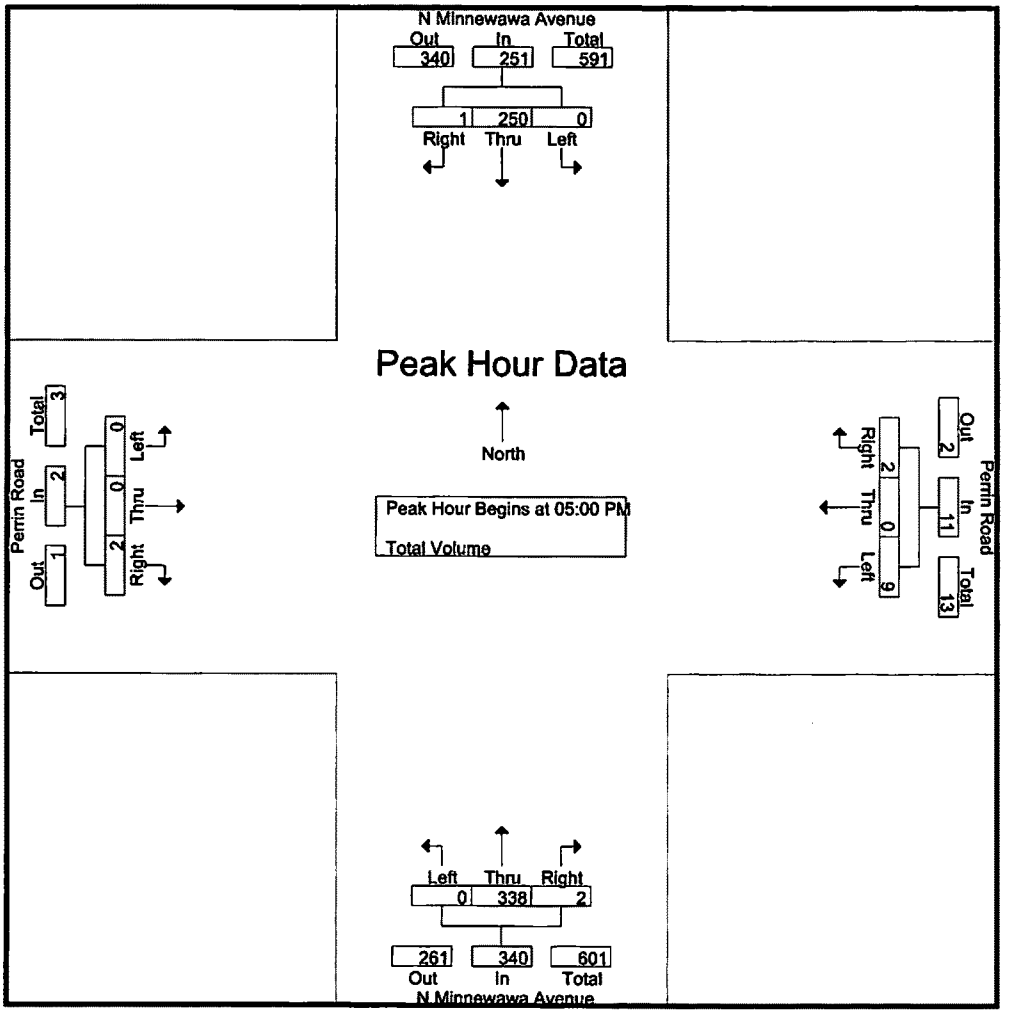
County of Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road
Weather: Clear

File Name : 05_CFO_Min_Per PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | | 04:45 PM | | | | 05:00 PM | | | | 04:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 66 | 0 | 66 | 1 | 0 | 0 | 1 | 0 | 70 | 0 | 70 | 0 | 0 | 1 | 1 |
| +15 mins. | 0 | 65 | 0 | 65 | 2 | 0 | 0 | 2 | 0 | 83 | 0 | 83 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | **70** | 0 | **70** | 1 | 0 | **2** | 3 | 0 | **94** | 0 | **94** | 0 | 0 | 1 | 1 |
| +45 mins. | 0 | 67 | 0 | 67 | **5** | 0 | 0 | **5** | 0 | 91 | **2** | 93 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 268 | 0 | 268 | 9 | 0 | 2 | 11 | 0 | 338 | 2 | 340 | 0 | 0 | 2 | 2 |
| % App. Total | 0 | 100 | 0 | | 81.8 | 0 | 18.2 | | 0 | 99.4 | 0.6 | | 0 | 0 | 100 | |
| PHF | .000 | .957 | .000 | .957 | .450 | .000 | .250 | .550 | .000 | .899 | .250 | .904 | .000 | .000 | .500 | .500 |

Location: Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road

Date: 5/23/2024
Day: Thursday

**PEDESTRIANS**

| | North Leg<br>N Minnewawa Avenue | East Leg<br>Perrin Road | South Leg<br>N Minnewawa Avenue | West Leg<br>Perrin Road | |
|---|---|---|---|---|---|
| | Pedestrians | Pedestrians | Pedestrians | Pedestrians | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 1 | 0 | 0 | 1 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 1 | 1 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 1 | 0 | 1 | 2 |

| | North Leg<br>N Minnewawa Avenue | East Leg<br>Perrin Road | South Leg<br>N Minnewawa Avenue | West Leg<br>Perrin Road | |
|---|---|---|---|---|---|
| | Pedestrians | Pedestrians | Pedestrians | Pedestrians | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 1 | 0 | 0 | 1 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 1 | 0 | 0 | 1 |

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
951-268-6268

Location: Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road

Date: 5/23/2024
Day: Thursday

**BICYCLES**

| | Southbound N Minnewawa Avenue | | | Westbound Perrin Road | | | Northbound N Minnewawa Avenue | | | Eastbound Perrin Road | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:15 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |

| | Southbound N Minnewawa Avenue | | | Westbound Perrin Road | | | Northbound N Minnewawa Avenue | | | Eastbound Perrin Road | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 10 | 25 | 6 | 41 | 0 | 40 | 15 | 55 | 13 | 26 | 0 | 39 | 6 | 48 | 16 | 70 | 205 |
| 07:15 AM | 13 | 28 | 5 | 46 | 5 | 49 | 22 | 76 | 30 | 31 | 1 | 62 | 8 | 58 | 19 | 85 | 269 |
| 07:30 AM | 5 | 44 | 8 | 57 | 1 | 80 | 33 | 114 | 27 | 36 | 3 | 66 | 3 | 83 | 44 | 130 | 367 |
| 07:45 AM | 46 | 51 | 13 | 110 | 6 | 69 | 28 | 103 | 29 | 28 | 5 | 62 | 8 | 96 | 31 | 135 | 410 |
| Total | 74 | 148 | 32 | 254 | 12 | 238 | 98 | 348 | 99 | 121 | 9 | 229 | 25 | 285 | 110 | 420 | 1251 |
| 08:00 AM | 22 | 47 | 6 | 75 | 3 | 61 | 36 | 100 | 31 | 42 | 4 | 77 | 11 | 75 | 23 | 109 | 361 |
| 08:15 AM | 18 | 51 | 7 | 76 | 4 | 55 | 40 | 99 | 33 | 46 | 6 | 85 | 12 | 64 | 30 | 106 | 366 |
| 08:30 AM | 14 | 49 | 4 | 67 | 5 | 52 | 29 | 86 | 26 | 32 | 1 | 59 | 10 | 58 | 25 | 93 | 305 |
| 08:45 AM | 19 | 26 | 2 | 47 | 6 | 37 | 12 | 55 | 14 | 28 | 1 | 43 | 6 | 55 | 11 | 72 | 217 |
| Total | 73 | 173 | 19 | 265 | 18 | 205 | 117 | 340 | 104 | 148 | 12 | 264 | 39 | 252 | 89 | 380 | 1249 |
| Grand Total | 147 | 321 | 51 | 519 | 30 | 443 | 215 | 688 | 203 | 269 | 21 | 493 | 64 | 537 | 199 | 800 | 2500 |
| Apprch % | 28.3 | 61.8 | 9.8 | | 4.4 | 64.4 | 31.2 | | 41.2 | 54.6 | 4.3 | | 8 | 67.1 | 24.9 | | |
| Total % | 5.9 | 12.8 | 2 | 20.8 | 1.2 | 17.7 | 8.6 | 27.5 | 8.1 | 10.8 | 0.8 | 19.7 | 2.6 | 21.5 | 8 | 32 | |
| Passenger Vehicles | 140 | 316 | 46 | 502 | 27 | 432 | 207 | 666 | 196 | 256 | 19 | 471 | 61 | 517 | 193 | 771 | 2410 |
| % Passenger Vehicles | 95.2 | 98.4 | 90.2 | 96.7 | 90 | 97.5 | 96.3 | 96.8 | 96.6 | 95.2 | 90.5 | 95.5 | 95.3 | 96.3 | 97 | 96.4 | 96.4 |
| Large 2 Axle Vehicles | 4 | 2 | 1 | 7 | 1 | 5 | 2 | 8 | 3 | 3 | 0 | 6 | 0 | 12 | 3 | 15 | 36 |
| % Large 2 Axle Vehicles | 2.7 | 0.6 | 2 | 1.3 | 3.3 | 1.1 | 0.9 | 1.2 | 1.5 | 1.1 | 0 | 1.2 | 0 | 2.2 | 1.5 | 1.9 | 1.4 |
| 3 Axle Vehicles | 1 | 0 | 2 | 3 | 2 | 3 | 5 | 10 | 0 | 2 | 1 | 3 | 2 | 6 | 2 | 10 | 26 |
| % 3 Axle Vehicles | 0.7 | 0 | 3.9 | 0.6 | 6.7 | 0.7 | 2.3 | 1.5 | 0 | 0.7 | 4.8 | 0.6 | 3.1 | 1.1 | 1 | 1.2 | 1 |
| 4+ Axle Trucks | 2 | 3 | 2 | 7 | 0 | 3 | 1 | 4 | 4 | 8 | 1 | 13 | 1 | 2 | 1 | 4 | 28 |
| % 4+ Axle Trucks | 1.4 | 0.9 | 3.9 | 1.3 | 0 | 0.7 | 0.5 | 0.6 | 2 | 3 | 4.8 | 2.6 | 1.6 | 0.4 | 0.5 | 0.5 | 1.1 |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 5 | 44 | 8 | 57 | 1 | **80** | 33 | **114** | 27 | 36 | 3 | 66 | 3 | 83 | 44 | 130 | 367 |
| 07:45 AM | **46** | **51** | **13** | **110** | **6** | 69 | 28 | 103 | 29 | 28 | 5 | 62 | 8 | **96** | 31 | **135** | **410** |
| 08:00 AM | 22 | 47 | 6 | 75 | 3 | 61 | 36 | 100 | 31 | 42 | 4 | 77 | 11 | 75 | 23 | 109 | 361 |
| 08:15 AM | 18 | 51 | 7 | 76 | 4 | 55 | **40** | 99 | **33** | **46** | **6** | **85** | **12** | 64 | 30 | 106 | 366 |
| Total Volume | 91 | 193 | 34 | 318 | 14 | 265 | 137 | 416 | 120 | 152 | 18 | 290 | 34 | 318 | 128 | 480 | 1504 |
| % App. Total | 28.6 | 60.7 | 10.7 | | 3.4 | 63.7 | 32.9 | | 41.4 | 52.4 | 6.2 | | 7.1 | 66.2 | 26.7 | | |
| PHF | .495 | .946 | .654 | .723 | .583 | .828 | .856 | .912 | .909 | .826 | .750 | .853 | .708 | .828 | .727 | .889 | .917 |

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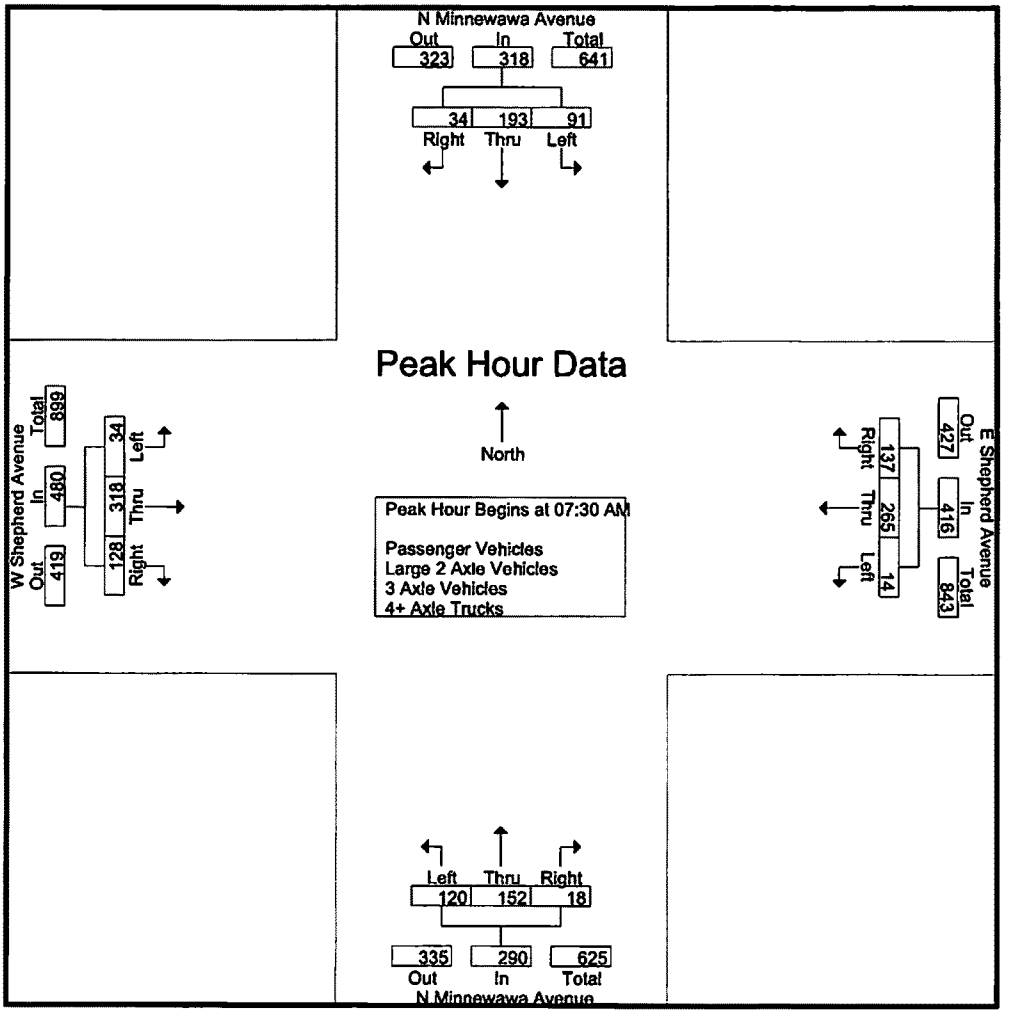
City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | **46** | **51** | **13** | **110** | 1 | **80** | 33 | 114 | 27 | 36 | 3 | 66 | 3 | 83 | **44** | 130 |
| +15 mins. | 22 | 47 | 6 | 75 | **6** | 69 | 28 | 103 | 29 | 28 | 5 | 62 | 8 | **96** | 31 | **135** |
| +30 mins. | 18 | 51 | 7 | 76 | 3 | 61 | 36 | 100 | 31 | 42 | 4 | 77 | 11 | 75 | 23 | 109 |
| +45 mins. | 14 | 49 | 4 | 67 | 4 | 55 | **40** | 99 | **33** | **46** | **6** | **85** | **12** | 64 | 30 | 106 |
| Total Volume | 100 | 198 | 30 | 328 | 14 | 265 | 137 | 416 | 120 | 152 | 18 | 290 | 34 | 318 | 128 | 480 |
| % App. Total | 30.5 | 60.4 | 9.1 | | 3.4 | 63.7 | 32.9 | | 41.4 | 52.4 | 6.2 | | 7.1 | 66.2 | 26.7 | |
| PHF | .543 | .971 | .577 | .745 | .583 | .828 | .856 | .912 | .909 | .826 | .750 | .853 | .708 | .828 | .727 | .889 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 9 | 24 | 4 | 37 | 0 | 40 | 14 | 54 | 12 | 26 | 0 | 38 | 6 | 48 | 14 | 68 | 197 |
| 07:15 AM | 13 | 28 | 4 | 45 | 4 | 47 | 22 | 73 | 27 | 28 | 1 | 56 | 8 | 54 | 18 | 80 | 254 |
| 07:30 AM | 5 | 43 | 8 | 56 | 1 | 76 | 33 | 110 | 27 | 35 | 3 | 65 | 2 | 80 | 44 | 126 | 357 |
| 07:45 AM | 46 | 51 | 13 | 110 | 6 | 69 | 27 | 102 | 29 | 27 | 5 | 61 | 8 | 93 | 31 | 132 | 405 |
| Total | 73 | 146 | 29 | 248 | 11 | 232 | 96 | 339 | 95 | 116 | 9 | 220 | 24 | 275 | 107 | 406 | 1213 |
| 08:00 AM | 21 | 46 | 6 | 73 | 2 | 58 | 36 | 96 | 30 | 39 | 3 | 72 | 10 | 72 | 22 | 104 | 345 |
| 08:15 AM | 15 | 49 | 6 | 70 | 3 | 54 | 37 | 94 | 33 | 44 | 6 | 83 | 12 | 63 | 28 | 103 | 350 |
| 08:30 AM | 13 | 49 | 3 | 65 | 5 | 51 | 27 | 83 | 25 | 32 | 0 | 57 | 10 | 54 | 25 | 89 | 294 |
| 08:45 AM | 18 | 26 | 2 | 46 | 6 | 37 | 11 | 54 | 13 | 25 | 1 | 39 | 5 | 53 | 11 | 69 | 208 |
| Total | 67 | 170 | 17 | 254 | 16 | 200 | 111 | 327 | 101 | 140 | 10 | 251 | 37 | 242 | 86 | 365 | 1197 |
| Grand Total | 140 | 316 | 46 | 502 | 27 | 432 | 207 | 666 | 196 | 256 | 19 | 471 | 61 | 517 | 193 | 771 | 2410 |
| Apprch % | 27.9 | 62.9 | 9.2 | | 4.1 | 64.9 | 31.1 | | 41.6 | 54.4 | 4 | | 7.9 | 67.1 | 25 | | |
| Total % | 5.8 | 13.1 | 1.9 | 20.8 | 1.1 | 17.9 | 8.6 | 27.6 | 8.1 | 10.6 | 0.8 | 19.5 | 2.5 | 21.5 | 8 | 32 | |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 5 | 43 | 8 | 56 | 1 | **76** | 33 | **110** | 27 | 35 | 3 | 65 | 2 | 80 | 44 | 126 | 357 |
| 07:45 AM | **46** | **51** | **13** | **110** | **6** | 69 | 27 | 102 | 29 | 27 | 5 | 61 | 8 | **93** | 31 | **132** | **405** |
| 08:00 AM | 21 | 46 | 6 | 73 | 2 | 58 | 36 | 96 | 30 | 39 | 3 | 72 | 10 | 72 | 22 | 104 | 345 |
| 08:15 AM | 15 | 49 | 6 | 70 | 3 | 54 | **37** | 94 | **33** | **44** | **6** | **83** | **12** | 63 | 28 | 103 | 350 |
| Total Volume | 87 | 189 | 33 | 309 | 12 | 257 | 133 | 402 | 119 | 145 | 17 | 281 | 32 | 308 | 125 | 465 | 1457 |
| % App. Total | 28.2 | 61.2 | 10.7 | | 3 | 63.9 | 33.1 | | 42.3 | 51.6 | 6 | | 6.9 | 66.2 | 26.9 | | |
| PHF | .473 | .926 | .635 | .702 | .500 | .845 | .899 | .914 | .902 | .824 | .708 | .846 | .667 | .828 | .710 | .881 | .899 |

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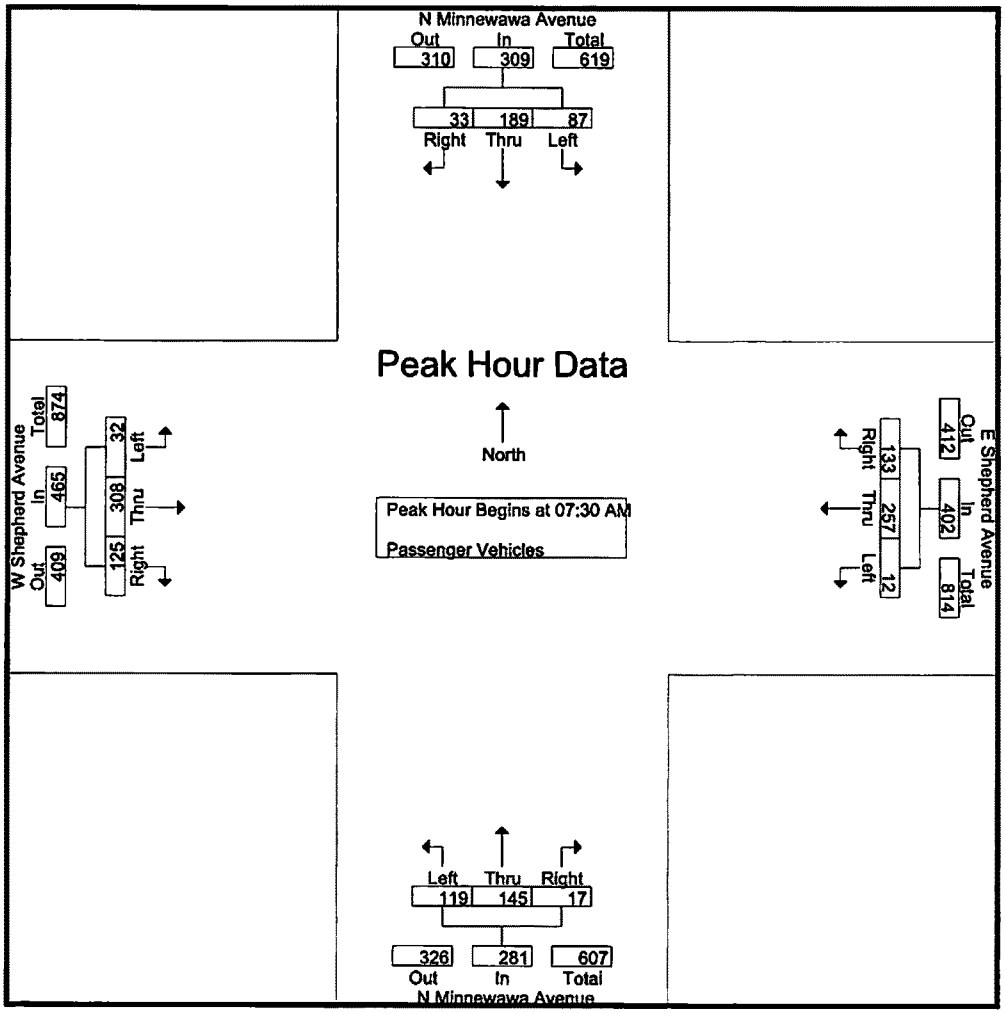
City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 5 | 43 | 8 | 56 | 1 | **76** | 33 | **110** | 27 | 35 | 3 | 65 | 2 | 80 | **44** | 126 |
| +15 mins. | **46** | **51** | **13** | **110** | **6** | 69 | 27 | 102 | 29 | 27 | 5 | 61 | 8 | **93** | 31 | **132** |
| +30 mins. | 21 | 46 | 6 | 73 | 2 | 58 | 36 | 96 | 30 | 39 | 3 | 72 | 10 | 72 | 22 | 104 |
| +45 mins. | 15 | 49 | 6 | 70 | 3 | 54 | **37** | 94 | **33** | **44** | **6** | **83** | **12** | 63 | 28 | 103 |
| Total Volume | 87 | 189 | 33 | 309 | 12 | 257 | 133 | 402 | 119 | 145 | 17 | 281 | 32 | 308 | 125 | 465 |
| % App. Total | 28.2 | 61.2 | 10.7 | | 3 | 63.9 | 33.1 | | 42.3 | 51.6 | 6 | | 6.9 | 66.2 | 26.9 | |
| PHF | .473 | .926 | .635 | .702 | .500 | .845 | .899 | .914 | .902 | .824 | .708 | .846 | .667 | .828 | .710 | .881 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 1 | 0 | 3 | 0 | 2 | 0 | 2 | 6 |
| 07:30 AM | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 6 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 |
| Total | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 3 | 3 | 2 | 0 | 5 | 0 | 6 | 0 | 6 | 15 |
| 08:00 AM | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 7 |
| 08:15 AM | 3 | 1 | 0 | 4 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 8 |
| 08:30 AM | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 4 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| Total | 4 | 1 | 1 | 6 | 1 | 2 | 2 | 5 | 0 | 1 | 0 | 1 | 0 | 6 | 3 | 9 | 21 |
| Grand Total | 4 | 2 | 1 | 7 | 1 | 5 | 2 | 8 | 3 | 3 | 0 | 6 | 0 | 12 | 3 | 15 | 36 |
| Apprch % | 57.1 | 28.6 | 14.3 | | 12.5 | 62.5 | 25 | | 50 | 50 | 0 | | 0 | 80 | 20 | | |
| Total % | 11.1 | 5.6 | 2.8 | 19.4 | 2.8 | 13.9 | 5.6 | 22.2 | 8.3 | 8.3 | 0 | 16.7 | 0 | 33.3 | 8.3 | 41.7 | |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | **1** | 0 | 1 | 0 | **2** | 0 | 2 | 0 | **1** | 0 | **1** | 0 | **2** | 0 | 2 | 6 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 |
| 08:00 AM | 1 | 0 | 0 | 1 | **1** | 2 | 0 | **3** | 0 | 0 | 0 | 0 | 0 | 2 | 1 | **3** | 7 |
| 08:15 AM | **3** | 1 | 0 | 4 | 0 | 0 | **1** | 1 | 0 | 0 | 0 | 0 | 0 | 1 | **2** | 3 | **8** |
| Total Volume | 4 | 2 | 0 | 6 | 1 | 4 | 1 | 6 | 0 | 1 | 0 | 1 | 0 | 7 | 3 | 10 | 23 |
| % App. Total | 66.7 | 33.3 | 0 | | 16.7 | 66.7 | 16.7 | | 0 | 100 | 0 | | 0 | 70 | 30 | | |
| PHF | .333 | .500 | .000 | .375 | .250 | .500 | .250 | .500 | .000 | .250 | .000 | .250 | .000 | .875 | .375 | .833 | .719 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
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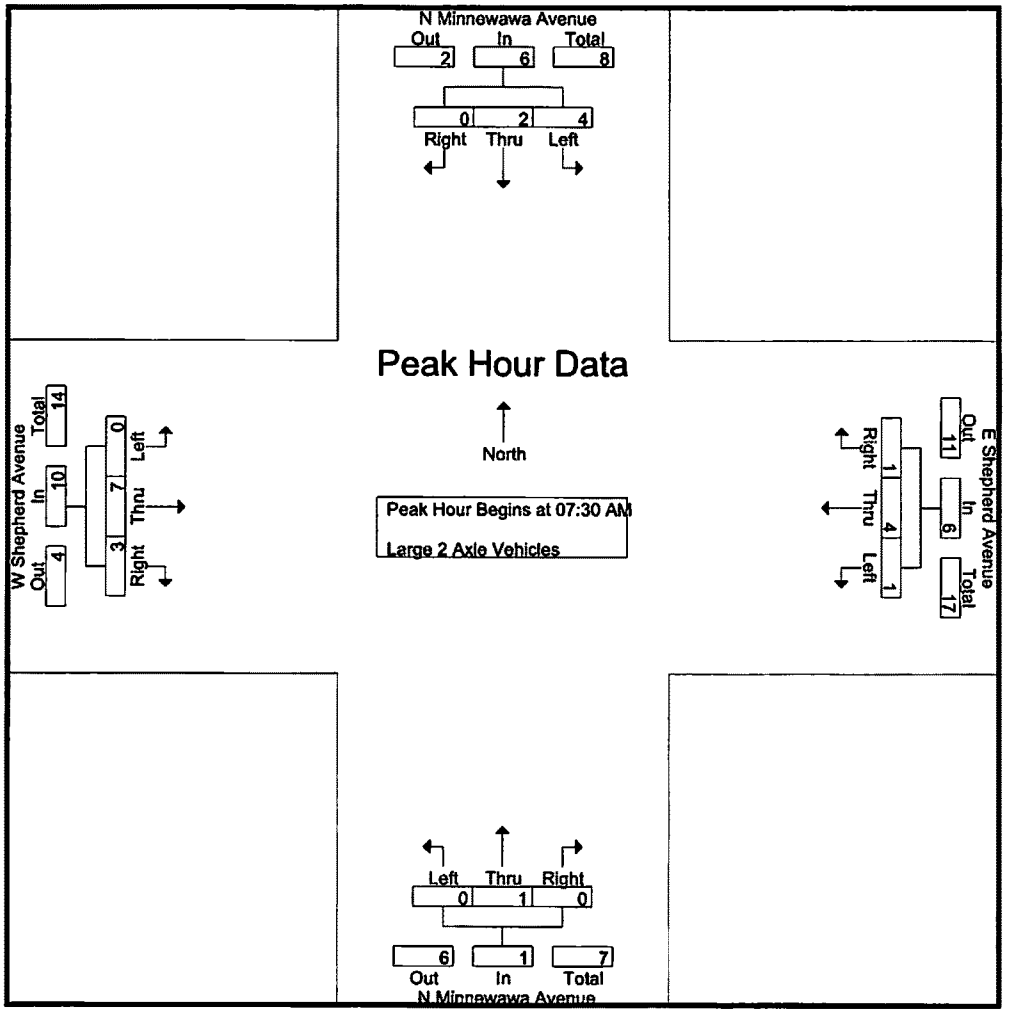
File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| +30 mins. | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 |
| +45 mins. | 3 | 1 | 0 | 4 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 |
| Total Volume | 4 | 2 | 0 | 6 | 1 | 4 | 1 | 6 | 0 | 1 | 0 | 1 | 0 | 7 | 3 | 10 |
| % App. Total | 66.7 | 33.3 | 0 | | 16.7 | 66.7 | 16.7 | | 0 | 100 | 0 | | 0 | 70 | 30 | |
| PHF | .333 | .500 | .000 | .375 | .250 | .500 | .250 | .500 | .000 | .250 | .000 | .250 | .000 | .875 | .375 | .833 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 07:15 AM | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 1 | 3 | 6 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 4 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| Total | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 4 | 0 | 1 | 0 | 1 | 1 | 4 | 2 | 7 | 13 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 1 | 0 | 2 | 4 |
| 08:15 AM | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 08:30 AM | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| Total | 1 | 0 | 1 | 2 | 1 | 1 | 4 | 6 | 0 | 1 | 1 | 2 | 1 | 2 | 0 | 3 | 13 |
| Grand Total | 1 | 0 | 2 | 3 | 2 | 3 | 5 | 10 | 0 | 2 | 1 | 3 | 2 | 6 | 2 | 10 | 26 |
| Apprch % | 33.3 | 0 | 66.7 | | 20 | 30 | 50 | | 0 | 66.7 | 33.3 | | 20 | 60 | 20 | | |
| Total % | 3.8 | 0 | 7.7 | 11.5 | 7.7 | 11.5 | 19.2 | 38.5 | 0 | 7.7 | 3.8 | 11.5 | 7.7 | 23.1 | 7.7 | 38.5 | |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | **2** | 0 | 2 | 0 | 0 | 0 | 0 | 1 | **1** | 0 | **2** | 4 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | **1** | **2** | 1 | 1 | 0 | 2 | 4 |
| 08:15 AM | 0 | 0 | 1 | 1 | **1** | 1 | **2** | **4** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Total Volume | 0 | 0 | 1 | 1 | 1 | 3 | 3 | 7 | 0 | 1 | 1 | 2 | 2 | 3 | 0 | 5 | 15 |
| % App. Total | 0 | 0 | 100 | | 14.3 | 42.9 | 42.9 | | 0 | 50 | 50 | | 40 | 60 | 0 | | |
| PHF | .000 | .000 | .250 | .250 | .250 | .375 | .375 | .438 | .000 | .250 | .250 | .250 | .500 | .750 | .000 | .625 | .750 |

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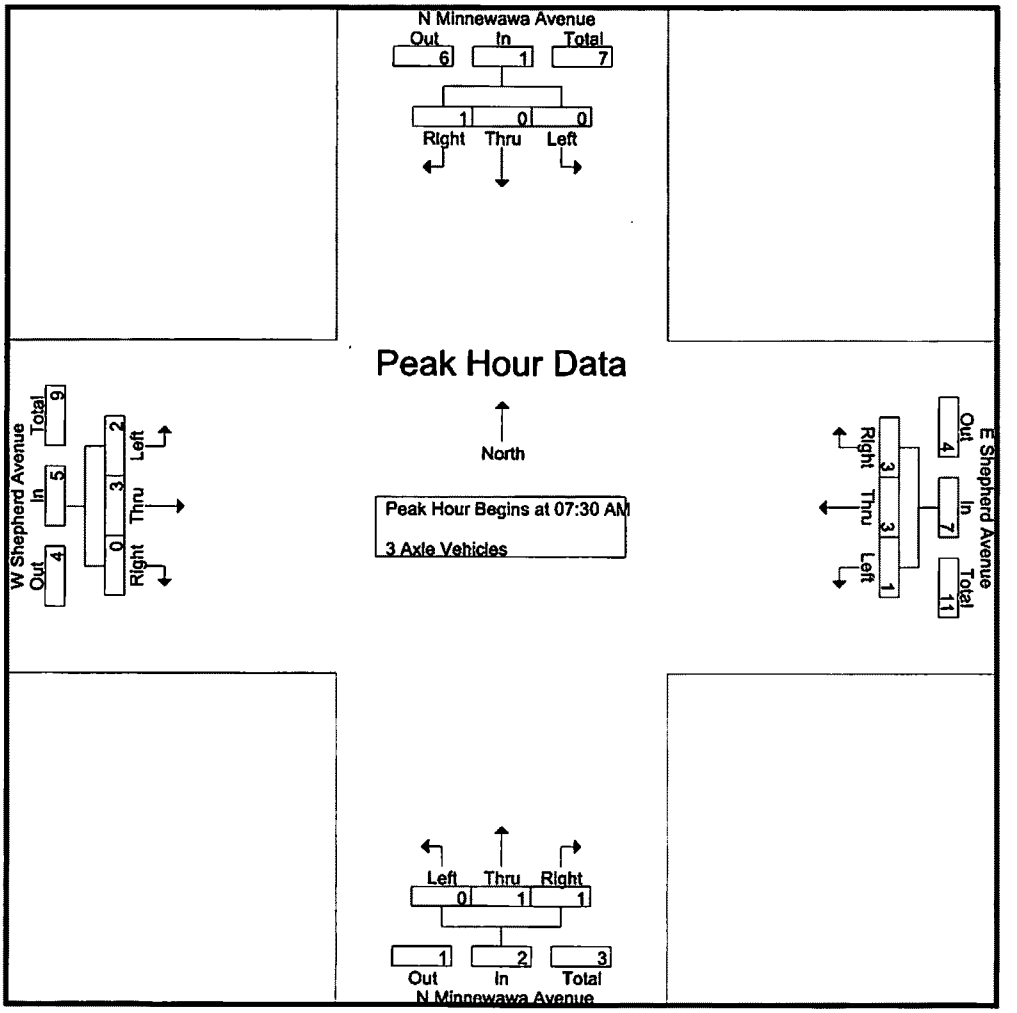
City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 1 | 0 | 2 |
| +45 mins. | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 1 | 1 | 1 | 3 | 3 | 7 | 0 | 1 | 1 | 2 | 2 | 3 | 0 | 5 |
| % App. Total | 0 | 0 | 100 | | 14.3 | 42.9 | 42.9 | | 0 | 50 | 50 | | 40 | 60 | 0 | |
| PHF | .000 | .000 | .250 | .250 | .250 | .375 | .375 | .438 | .000 | .250 | .250 | .250 | .500 | .750 | .000 | .625 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 1 | 1 | 2 | 4 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 6 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Total | 1 | 1 | 2 | 4 | 0 | 1 | 1 | 2 | 1 | 2 | 0 | 3 | 0 | 0 | 1 | 1 | 10 |
| 08:00 AM | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 5 |
| 08:15 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 2 | 0 | 2 | 0 | 2 | 5 |
| 08:45 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 1 | 0 | 0 | 1 | 5 |
| Total | 1 | 2 | 0 | 3 | 0 | 2 | 0 | 2 | 3 | 6 | 1 | 10 | 1 | 2 | 0 | 3 | 18 |
| Grand Total | 2 | 3 | 2 | 7 | 0 | 3 | 1 | 4 | 4 | 8 | 1 | 13 | 1 | 2 | 1 | 4 | 28 |
| Apprch % | 28.6 | 42.9 | 28.6 | | 0 | 75 | 25 | | 30.8 | 61.5 | 7.7 | | 25 | 50 | 25 | | |
| Total % | 7.1 | 10.7 | 7.1 | 25 | 0 | 10.7 | 3.6 | 14.3 | 14.3 | 28.6 | 3.6 | 46.4 | 3.6 | 7.1 | 3.6 | 14.3 | |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 08:00 AM | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 5 |
| 08:15 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| Total Volume | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 1 | 5 | 0 | 6 | 0 | 0 | 0 | 0 | 9 |
| % App. Total | 0 | 100 | 0 | | 0 | 100 | 0 | | 16.7 | 83.3 | 0 | | 0 | 0 | 0 | | |
| PHF | .000 | .500 | .000 | .500 | .000 | .250 | .000 | .250 | .250 | .625 | .000 | .500 | .000 | .000 | .000 | .000 | .450 |

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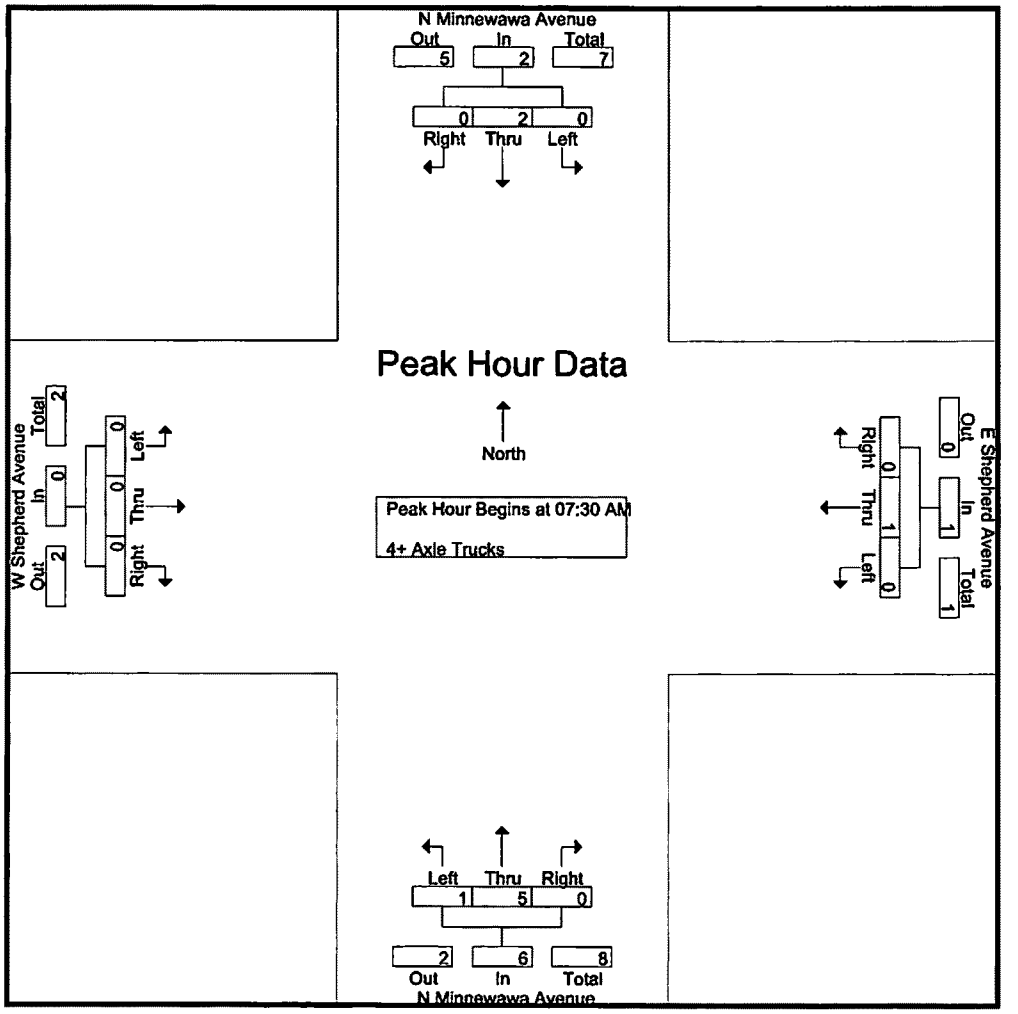
File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 1 | 5 | 0 | 6 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 100 | 0 | | 0 | 100 | 0 | | 16.7 | 83.3 | 0 | | 0 | 0 | 0 | |
| PHF | .000 | .500 | .000 | .500 | .000 | .250 | .000 | .250 | .250 | .625 | .000 | .500 | .000 | .000 | .000 | .000 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 16 | 38 | 5 | 59 | 1 | 61 | 31 | 93 | 20 | 43 | 4 | 67 | 9 | 72 | 22 | 103 | 322 |
| 04:15 PM | 14 | 44 | 6 | 64 | 0 | 50 | 25 | 75 | 29 | 38 | 5 | 72 | 7 | 85 | 23 | 115 | 326 |
| 04:30 PM | 17 | 34 | 6 | 57 | 2 | 63 | 28 | 93 | 34 | 34 | 5 | 73 | 9 | 83 | 31 | 123 | 346 |
| 04:45 PM | 18 | 45 | 8 | 71 | 3 | 56 | 21 | 80 | 33 | 45 | 5 | 83 | 14 | 53 | 19 | 86 | 320 |
| Total | 65 | 161 | 25 | 251 | 6 | 230 | 105 | 341 | 116 | 160 | 19 | 295 | 39 | 293 | 95 | 427 | 1314 |
| 05:00 PM | 13 | 45 | 9 | 67 | 1 | 63 | 19 | 83 | 33 | 35 | 7 | 75 | 11 | 70 | 18 | 99 | 324 |
| 05:15 PM | 10 | 46 | 13 | 69 | 2 | 67 | 22 | 91 | 35 | 51 | 6 | 92 | 12 | 72 | 31 | 115 | 367 |
| 05:30 PM | 10 | 43 | 6 | 59 | 1 | 57 | 22 | 80 | 34 | 60 | 7 | 101 | 11 | 79 | 33 | 123 | 363 |
| 05:45 PM | 15 | 35 | 8 | 58 | 2 | 53 | 25 | 80 | 27 | 59 | 4 | 90 | 10 | 74 | 29 | 113 | 341 |
| Total | 48 | 169 | 36 | 253 | 6 | 240 | 88 | 334 | 129 | 205 | 24 | 358 | 44 | 295 | 111 | 450 | 1395 |
| Grand Total | 113 | 330 | 61 | 504 | 12 | 470 | 193 | 675 | 245 | 365 | 43 | 653 | 83 | 588 | 206 | 877 | 2709 |
| Apprch % | 22.4 | 65.5 | 12.1 | | 1.8 | 69.6 | 28.6 | | 37.5 | 55.9 | 6.6 | | 9.5 | 67 | 23.5 | | |
| Total % | 4.2 | 12.2 | 2.3 | 18.6 | 0.4 | 17.3 | 7.1 | 24.9 | 9 | 13.5 | 1.6 | 24.1 | 3.1 | 21.7 | 7.6 | 32.4 | |
| Passenger Vehicles | 108 | 317 | 59 | 484 | 11 | 469 | 189 | 669 | 240 | 355 | 41 | 636 | 83 | 581 | 200 | 864 | 2653 |
| % Passenger Vehicles | 95.6 | 96.1 | 96.7 | 96 | 91.7 | 99.8 | 97.9 | 99.1 | 98 | 97.3 | 95.3 | 97.4 | 100 | 98.8 | 97.1 | 98.5 | 97.9 |
| Large 2 Axle Vehicles | 0 | 2 | 1 | 3 | 0 | 0 | 2 | 2 | 1 | 4 | 0 | 5 | 0 | 5 | 2 | 7 | 17 |
| % Large 2 Axle Vehicles | 0 | 0.6 | 1.6 | 0.6 | 0 | 0 | 1 | 0.3 | 0.4 | 1.1 | 0 | 0.8 | 0 | 0.9 | 1 | 0.8 | 0.6 |
| 3 Axle Vehicles | 2 | 5 | 0 | 7 | 1 | 0 | 2 | 3 | 3 | 2 | 1 | 6 | 0 | 2 | 2 | 4 | 20 |
| % 3 Axle Vehicles | 1.8 | 1.5 | 0 | 1.4 | 8.3 | 0 | 1 | 0.4 | 1.2 | 0.5 | 2.3 | 0.9 | 0 | 0.3 | 1 | 0.5 | 0.7 |
| 4+ Axle Trucks | 3 | 6 | 1 | 10 | 0 | 1 | 0 | 1 | 1 | 4 | 1 | 6 | 0 | 0 | 2 | 2 | 19 |
| % 4+ Axle Trucks | 2.7 | 1.8 | 1.6 | 2 | 0 | 0.2 | 0 | 0.1 | 0.4 | 1.1 | 2.3 | 0.9 | 0 | 0 | 1 | 0.2 | 0.7 |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 13 | 45 | 9 | 67 | 1 | 63 | 19 | 83 | 33 | 35 | **7** | 75 | 11 | 70 | 18 | 99 | 324 |
| 05:15 PM | 10 | **46** | **13** | **69** | **2** | **67** | 22 | **91** | **35** | 51 | 6 | 92 | **12** | 72 | 31 | 115 | **367** |
| 05:30 PM | 10 | 43 | 6 | 59 | 1 | 57 | 22 | 80 | 34 | **60** | 7 | **101** | 11 | **79** | **33** | **123** | 363 |
| 05:45 PM | **15** | 35 | 8 | 58 | 2 | 53 | **25** | 80 | 27 | 59 | 4 | 90 | 10 | 74 | 29 | 113 | 341 |
| Total Volume | 48 | 169 | 36 | 253 | 6 | 240 | 88 | 334 | 129 | 205 | 24 | 358 | 44 | 295 | 111 | 450 | 1395 |
| % App. Total | 19 | 66.8 | 14.2 | | 1.8 | 71.9 | 26.3 | | 36 | 57.3 | 6.7 | | 9.8 | 65.6 | 24.7 | | |
| PHF | .800 | .918 | .692 | .917 | .750 | .896 | .880 | .918 | .921 | .854 | .857 | .886 | .917 | .934 | .841 | .915 | .950 |

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City of Clovis
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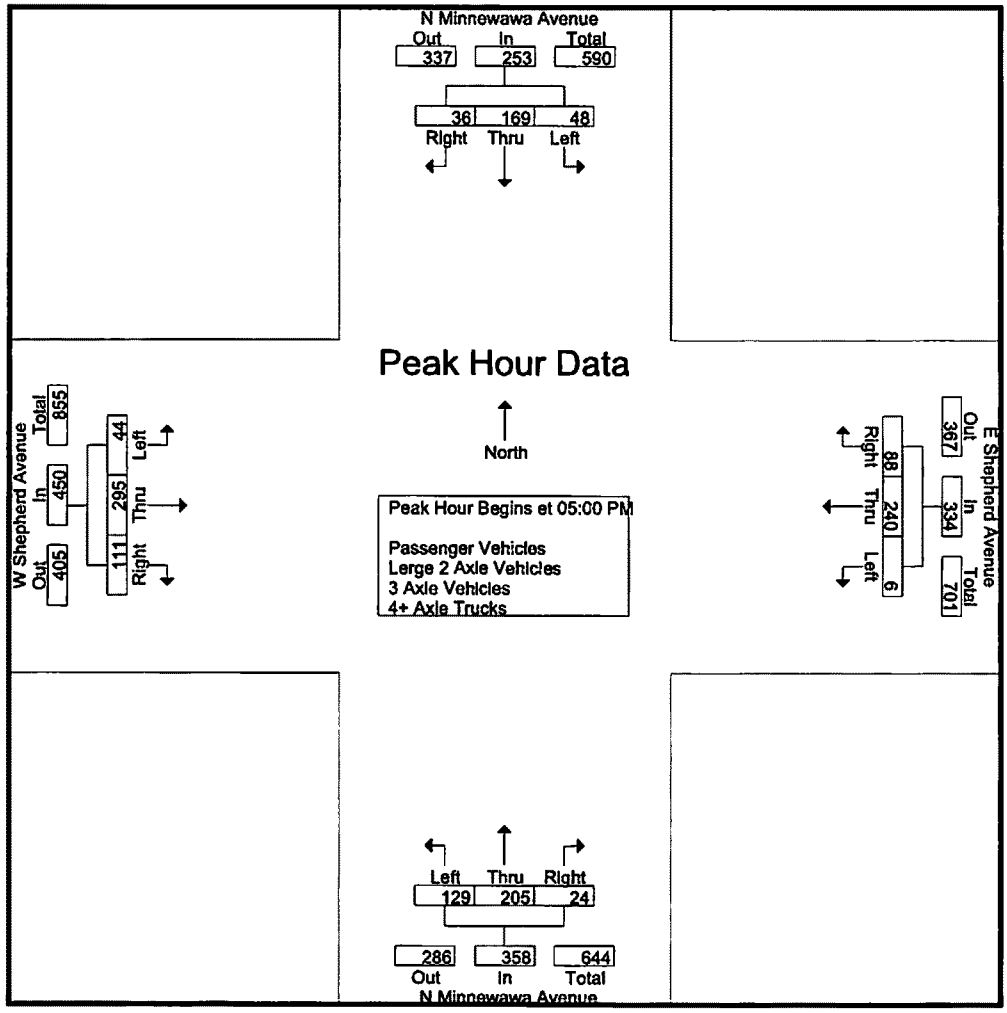
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 04:45 PM | | | | 04:30 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | **18** | 45 | 8 | **71** | 2 | 63 | **28** | **93** | 33 | 35 | **7** | 75 | 11 | 70 | 18 | 99 |
| +15 mins. | 13 | 45 | 9 | 67 | **3** | 56 | 21 | 80 | **35** | 51 | 6 | 92 | **12** | 72 | 31 | 115 |
| +30 mins. | 10 | **46** | **13** | 69 | 1 | 63 | 19 | 83 | 34 | **60** | **7** | **101** | 11 | **79** | **33** | **123** |
| +45 mins. | 10 | 43 | 6 | 59 | 2 | **67** | 22 | 91 | 27 | 59 | 4 | 90 | 10 | 74 | 29 | 113 |
| Total Volume | 51 | 179 | 36 | 266 | 8 | 249 | 90 | 347 | 129 | 205 | 24 | 358 | 44 | 295 | 111 | 450 |
| % App. Total | 19.2 | 67.3 | 13.5 | | 2.3 | 71.8 | 25.9 | | 36 | 57.3 | 6.7 | | 9.8 | 65.6 | 24.7 | |
| PHF | .708 | .973 | .692 | .937 | .667 | .929 | .804 | .933 | .921 | .854 | .857 | .886 | .917 | .934 | .841 | .915 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 15 | 35 | 5 | 55 | 1 | 61 | 29 | 91 | 20 | 40 | 4 | 64 | 9 | 69 | 22 | 100 | 310 |
| 04:15 PM | 14 | 40 | 4 | 58 | 0 | 50 | 25 | 75 | 29 | 37 | 5 | 71 | 7 | 83 | 21 | 111 | 315 |
| 04:30 PM | 16 | 34 | 6 | 56 | 2 | 63 | 27 | 92 | 33 | 33 | 4 | 70 | 9 | 82 | 28 | 119 | 337 |
| 04:45 PM | 17 | 44 | 8 | 69 | 2 | 56 | 20 | 78 | 32 | 44 | 5 | 81 | 14 | 52 | 19 | 85 | 313 |
| Total | 62 | 153 | 23 | 238 | 5 | 230 | 101 | 336 | 114 | 154 | 18 | 286 | 39 | 286 | 90 | 415 | 1275 |
| 05:00 PM | 13 | 44 | 9 | 66 | 1 | 63 | 19 | 83 | 32 | 34 | 7 | 73 | 11 | 70 | 18 | 99 | 321 |
| 05:15 PM | 10 | 45 | 13 | 68 | 2 | 66 | 22 | 90 | 35 | 51 | 6 | 92 | 12 | 72 | 31 | 115 | 365 |
| 05:30 PM | 8 | 42 | 6 | 56 | 1 | 57 | 22 | 80 | 32 | 57 | 6 | 95 | 11 | 79 | 32 | 122 | 353 |
| 05:45 PM | 15 | 33 | 8 | 56 | 2 | 53 | 25 | 80 | 27 | 59 | 4 | 90 | 10 | 74 | 29 | 113 | 339 |
| Total | 46 | 164 | 36 | 246 | 6 | 239 | 88 | 333 | 126 | 201 | 23 | 350 | 44 | 295 | 110 | 449 | 1378 |
| Grand Total | 108 | 317 | 59 | 484 | 11 | 469 | 189 | 669 | 240 | 355 | 41 | 636 | 83 | 581 | 200 | 864 | 2653 |
| Apprch % | 22.3 | 65.5 | 12.2 | | 1.6 | 70.1 | 28.3 | | 37.7 | 55.8 | 6.4 | | 9.6 | 67.2 | 23.1 | | |
| Total % | 4.1 | 11.9 | 2.2 | 18.2 | 0.4 | 17.7 | 7.1 | 25.2 | 9 | 13.4 | 1.5 | 24 | 3.1 | 21.9 | 7.5 | 32.6 | |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 13 | 44 | 9 | 66 | 1 | 63 | 19 | 83 | 32 | 34 | **7** | 73 | 11 | 70 | 18 | 99 | 321 |
| 05:15 PM | 10 | **45** | **13** | **68** | **2** | **66** | 22 | **90** | **35** | 51 | 6 | 92 | **12** | 72 | 31 | 115 | **365** |
| 05:30 PM | 8 | 42 | 6 | 56 | 1 | 57 | 22 | 80 | 32 | 57 | 6 | **95** | 11 | **79** | **32** | **122** | 353 |
| 05:45 PM | **15** | 33 | 8 | 56 | 2 | 53 | **25** | 80 | 27 | **59** | 4 | 90 | 10 | 74 | 29 | 113 | 339 |
| Total Volume | 46 | 164 | 36 | 246 | 6 | 239 | 88 | 333 | 126 | 201 | 23 | 350 | 44 | 295 | 110 | 449 | 1378 |
| % App. Total | 18.7 | 66.7 | 14.6 | | 1.8 | 71.8 | 26.4 | | 36 | 57.4 | 6.6 | | 9.8 | 65.7 | 24.5 | | |
| PHF | .767 | .911 | .692 | .904 | .750 | .905 | .880 | .925 | .900 | .852 | .821 | .921 | .917 | .934 | .859 | .920 | .944 |

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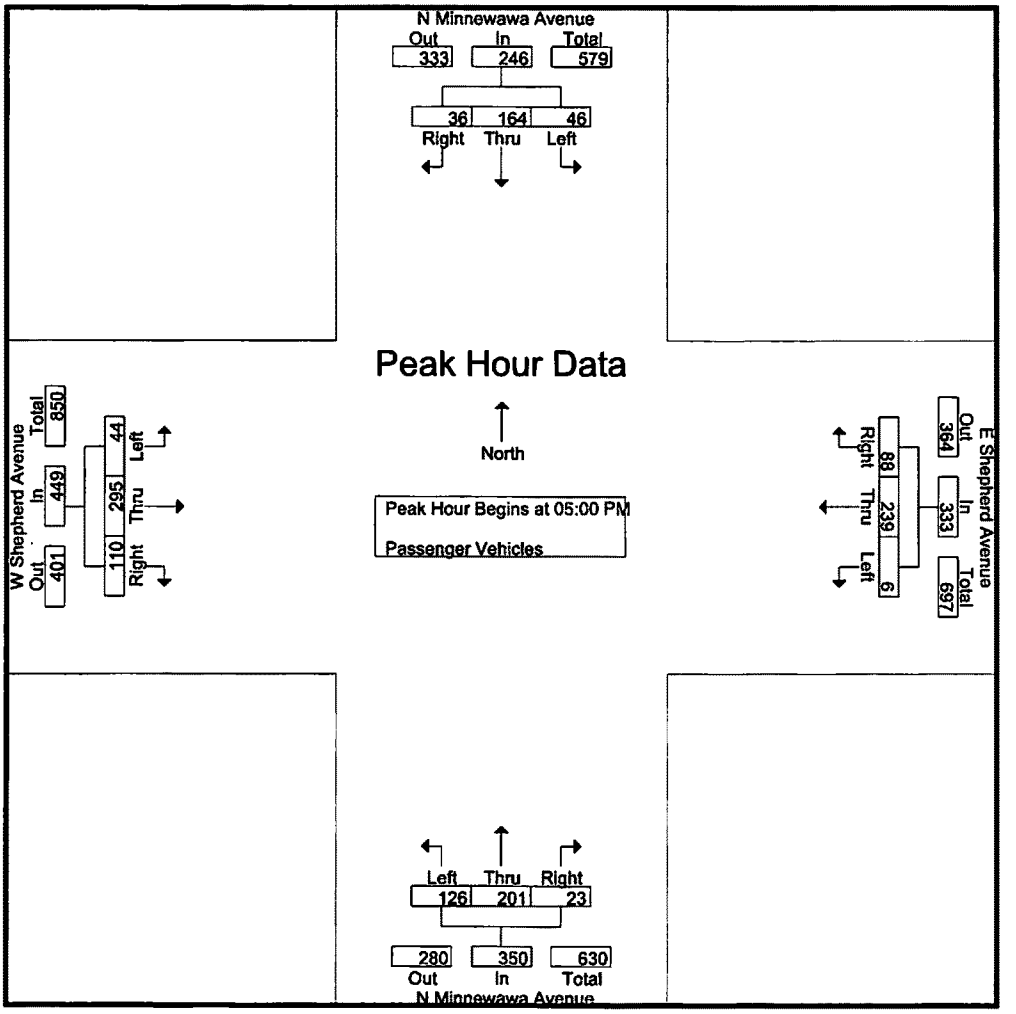
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 13 | 44 | 9 | 66 | 1 | 63 | 19 | 83 | 32 | 34 | 7 | 73 | 11 | 70 | 18 | 99 |
| +15 mins. | 10 | **45** | **13** | **68** | **2** | **66** | 22 | **90** | **35** | 51 | 6 | 92 | **12** | 72 | 31 | 115 |
| +30 mins. | 8 | 42 | 6 | 56 | 1 | 57 | 22 | 80 | 32 | 57 | 6 | **95** | 11 | **79** | **32** | **122** |
| +45 mins. | **15** | 33 | 8 | 56 | 2 | 53 | **25** | 80 | 27 | **59** | 4 | 90 | 10 | 74 | 29 | 113 |
| Total Volume | 46 | 164 | 36 | 246 | 6 | 239 | 88 | 333 | 126 | 201 | 23 | 350 | 44 | 295 | 110 | 449 |
| % App. Total | 18.7 | 66.7 | 14.6 | | 1.8 | 71.8 | 26.4 | | 36 | 57.4 | 6.6 | | 9.8 | 65.7 | 24.5 | |
| PHF | .767 | .911 | .692 | .904 | .750 | .905 | .880 | .925 | .900 | .852 | .821 | .921 | .917 | .934 | .859 | .920 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 4 |
| 04:15 PM | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 4 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| Total | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 1 | 0 | 5 | 1 | 6 | 10 |
| 05:00 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 0 | 0 | 1 | 1 | 5 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 0 | 0 | 1 | 1 | 7 |
| Grand Total | 0 | 2 | 1 | 3 | 0 | 0 | 2 | 2 | 1 | 4 | 0 | 5 | 0 | 5 | 2 | 7 | 17 |
| Apprch % | 0 | 66.7 | 33.3 | | 0 | 0 | 100 | | 20 | 80 | 0 | | 0 | 71.4 | 28.6 | | |
| Total % | 0 | 11.8 | 5.9 | 17.6 | 0 | 0 | 11.8 | 11.8 | 5.9 | 23.5 | 0 | 29.4 | 0 | 29.4 | 11.8 | 41.2 | |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | **1** | 0 | **1** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | **3** | 0 | 4 | 0 | 0 | **1** | **1** | **5** |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 0 | 0 | 1 | 1 | 7 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 25 | 75 | 0 | | 0 | 0 | 100 | | |
| PHF | .000 | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .250 | .250 | .000 | .250 | .000 | .000 | .250 | .250 | .350 |

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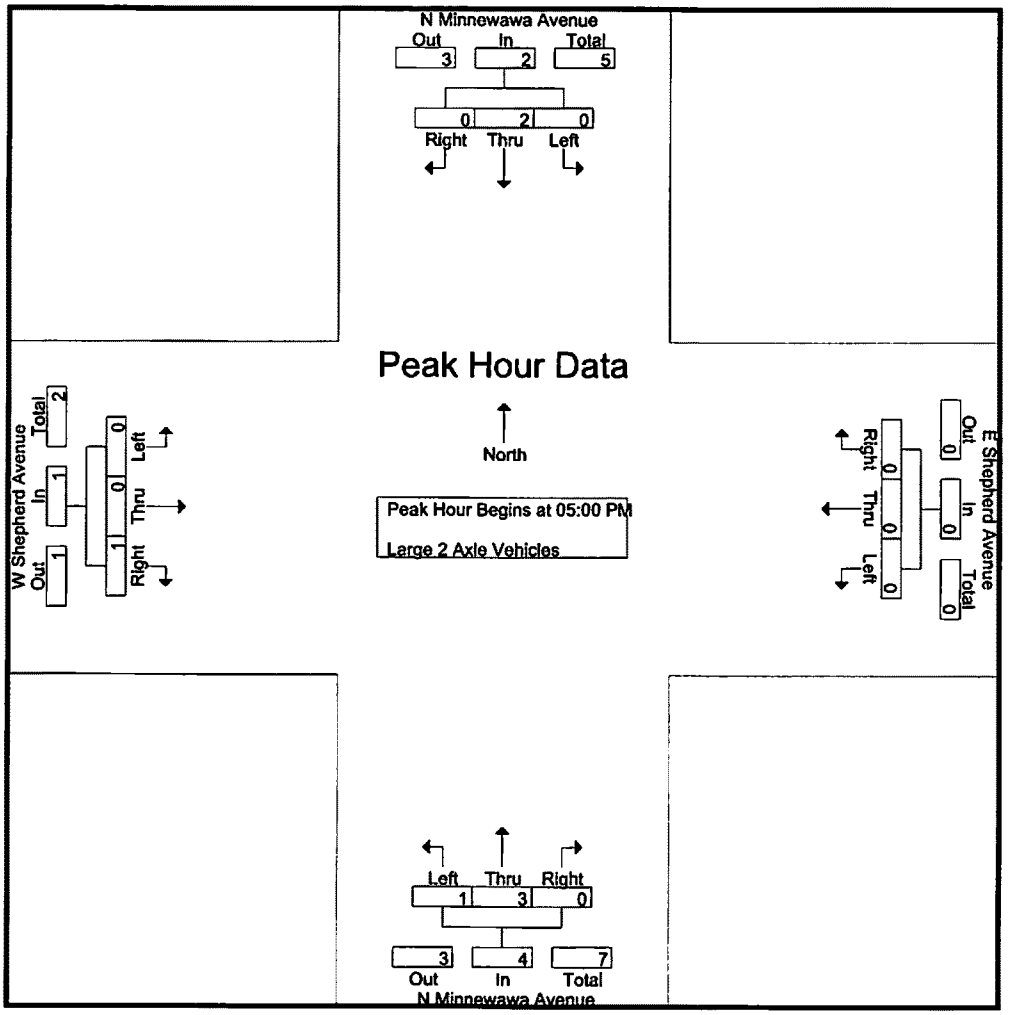
y of Clovis
S: N Minnewawa Avenue
W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 0 | 0 | 1 | 1 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 0 | 0 | 1 | 1 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 25 | 75 | 0 | | 0 | 0 | 100 | |
| PHF | .000 | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .250 | .250 | .000 | .250 | .000 | .000 | .250 | .250 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 5 |
| 04:15 PM | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 04:30 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 3 | 5 |
| 04:45 PM | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 1 | 4 | 0 | 5 | 1 | 0 | 2 | 3 | 1 | 1 | 0 | 2 | 0 | 2 | 2 | 4 | 14 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 4 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 6 |
| Grand Total | 2 | 5 | 0 | 7 | 1 | 0 | 2 | 3 | 3 | 2 | 1 | 6 | 0 | 2 | 2 | 4 | 20 |
| Apprch % | 28.6 | 71.4 | 0 | | 33.3 | 0 | 66.7 | | 50 | 33.3 | 16.7 | | 0 | 50 | 50 | | |
| Total % | 10 | 25 | 0 | 35 | 5 | 0 | 10 | 15 | 15 | 10 | 5 | 30 | 0 | 10 | 10 | 20 | |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | **1** | 0 | **2** | 0 | 0 | 0 | 0 | 2 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | **1** | **1** | 0 | **2** | 0 | 0 | 0 | 0 | 1 | 0 | **1** | 2 | 0 | 0 | 0 | 0 | 4 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 6 |
| % App. Total | 50 | 50 | 0 | | 0 | 0 | 0 | | 50 | 25 | 25 | | 0 | 0 | 0 | | |
| PHF | .250 | .250 | .000 | .250 | .000 | .000 | .000 | .000 | .500 | .250 | .250 | .500 | .000 | .000 | .000 | .000 | .375 |

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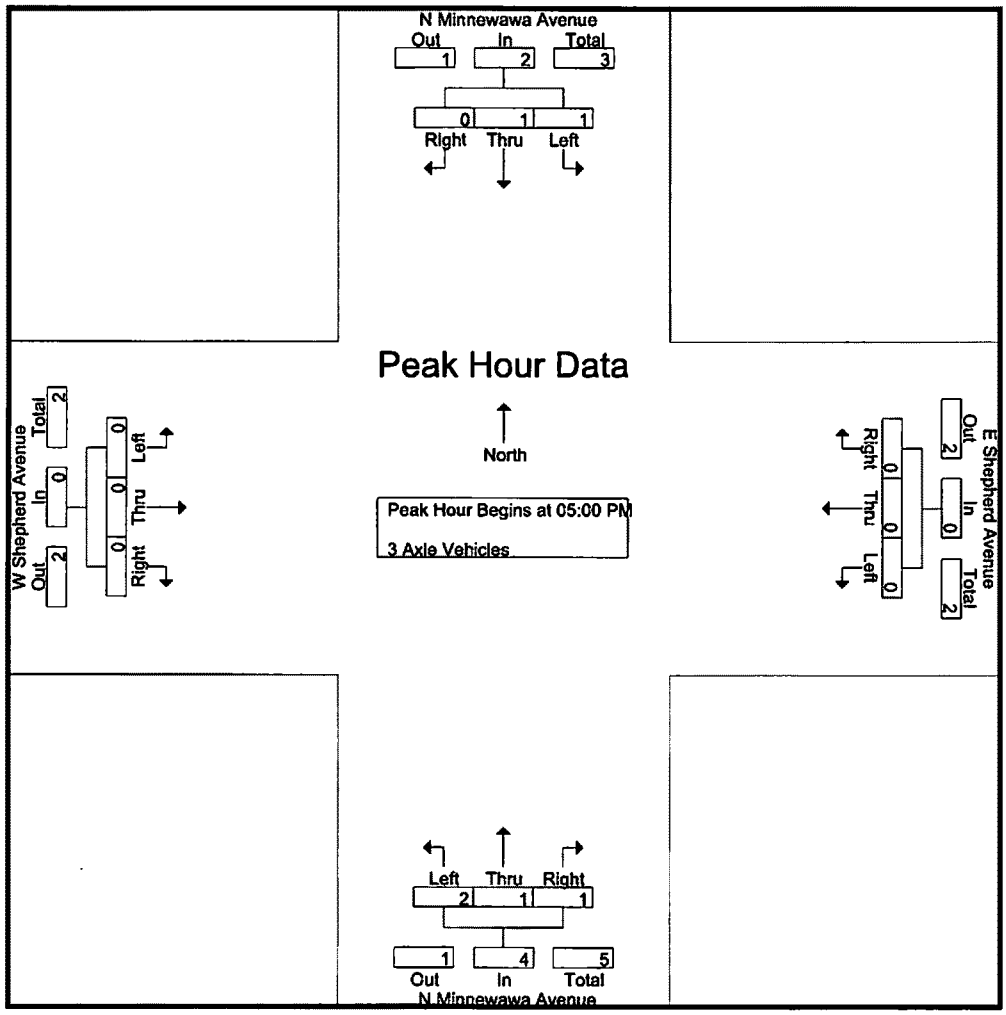
City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | **1** | 0 | **2** | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | **1** | **1** | 0 | **2** | 0 | 0 | 0 | 0 | 1 | 0 | **1** | 2 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 4 | 0 | 0 | 0 | 0 |
| % App. Total | 50 | 50 | 0 | | 0 | 0 | 0 | | 50 | 25 | 25 | | 0 | 0 | 0 | |
| PHF | .250 | .250 | .000 | .250 | .000 | .000 | .000 | .000 | .500 | .250 | .250 | .500 | .000 | .000 | .000 | .000 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 04:15 PM | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 5 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 1 | 3 |
| 04:45 PM | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 4 |
| Total | 2 | 4 | 1 | 7 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 6 | 0 | 0 | 2 | 2 | 15 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:30 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 1 | 2 | 0 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Grand Total | 3 | 6 | 1 | 10 | 0 | 1 | 0 | 1 | 1 | 4 | 1 | 6 | 0 | 0 | 2 | 2 | 19 |
| Apprch % | 30 | 60 | 10 | | 0 | 100 | 0 | | 16.7 | 66.7 | 16.7 | | 0 | 0 | 100 | | |
| Total % | 15.8 | 31.6 | 5.3 | 52.6 | 0 | 5.3 | 0 | 5.3 | 5.3 | 21.1 | 5.3 | 31.6 | 0 | 0 | 10.5 | 10.5 | |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:30 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total Volume | 1 | 2 | 0 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| % App. Total | 33.3 | 66.7 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | |
| PHF | .250 | .250 | .000 | .375 | .000 | .250 | .000 | .250 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .500 |

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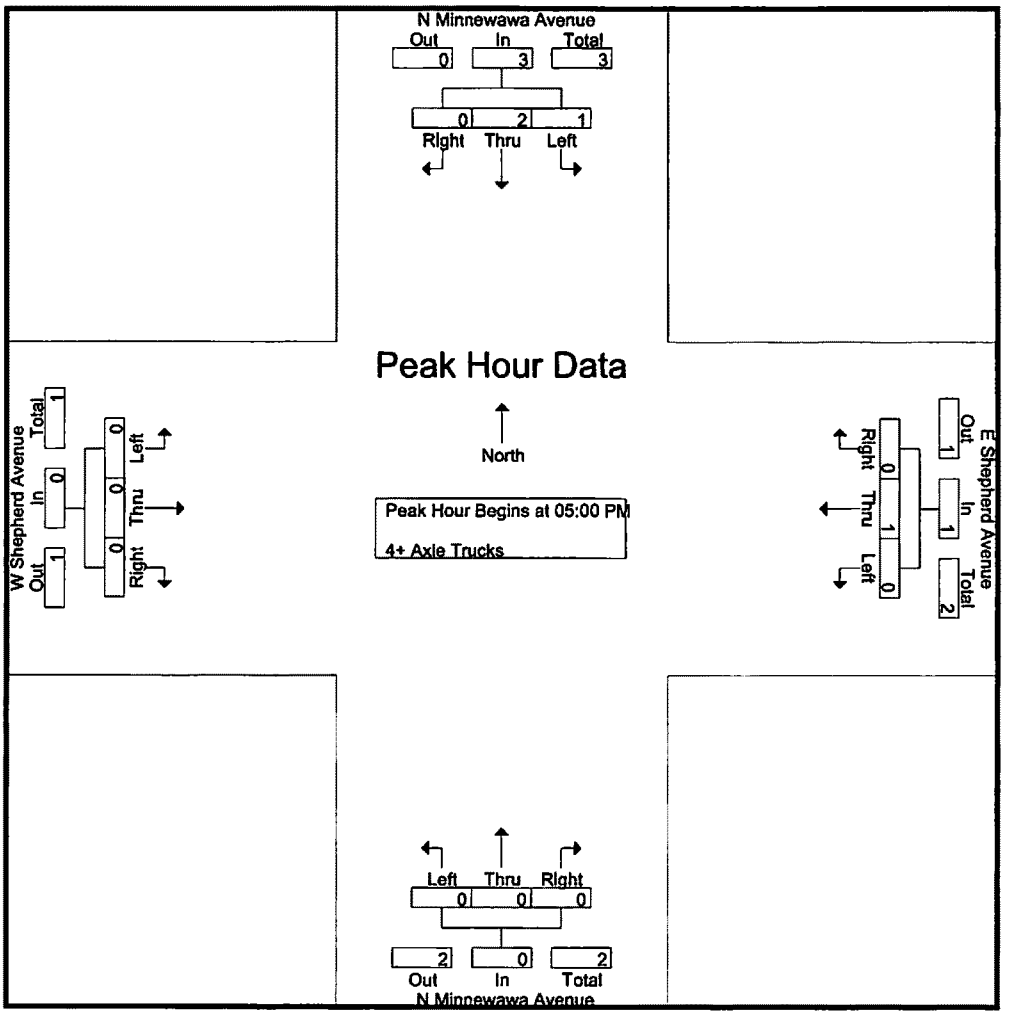
y of Clovis
S: N Minnewawa Avenue
W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 1 | 2 | 0 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 33.3 | 66.7 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | |
| PHF | .250 | .250 | .000 | .375 | .000 | .250 | .000 | .250 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

Location: Fresno
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue

Date: 5/23/2024
Day: Thursday

**PEDESTRIANS**

| | North Leg<br>N Minnewawa Avenue | East Leg<br>Shepherd Avenue | South Leg<br>N Minnewawa Avenue | West Leg<br>Shepherd Avenue | |
|---|---|---|---|---|---|
| | Pedestrians | Pedestrians | Pedestrians | Pedestrians | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 1 | 0 | 1 |
| 7:45 AM | 0 | 0 | 1 | 0 | 1 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 1 | 0 | 1 | 0 | 2 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 1 | 0 | 1 |
| TOTAL VOLUMES: | 1 | 0 | 4 | 0 | 5 |

| | North Leg<br>N Minnewawa Avenue | East Leg<br>Shepherd Avenue | South Leg<br>N Minnewawa Avenue | West Leg<br>Shepherd Avenue | |
|---|---|---|---|---|---|
| | Pedestrians | Pedestrians | Pedestrians | Pedestrians | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 2 | 0 | 2 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 2 | 0 | 2 |

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Location: Fresno
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue

Date: 5/23/2024
Day: Thursday

**BICYCLES**

| | Southbound N Minnewawa Avenue | | | Westbound Shepherd Avenue | | | Northbound N Minnewawa Avenue | | | Eastbound Shepherd Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 |
| TOTAL VOLUMES: | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 6 |

| | Southbound N Minnewawa Avenue | | | Westbound Shepherd Avenue | | | Northbound N Minnewawa Avenue | | | Eastbound Shepherd Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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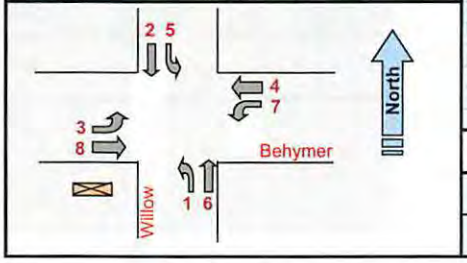
| Movement | NL | ST | EL | WT | SL | NT | WL | ET | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Times [1.1.1] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Min Green | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | |
| Gap, Ext | 2 | 5.8 | 2 | 5.1 | 2 | 5.8 | 2 | 3.5 | | |
| Max 1 | 20 | 45 | 20 | 30 | 20 | 45 | 20 | 30 | | |
| Max 2 | 12 | 35 | 12 | 20 | 12 | 35 | 12 | 20 | | |
| Yel Clearance | 4.3 | 4.7 | 5.2 | 5.5 | 4.3 | 4.7 | 3.6 | 5.5 | | |
| Red Clearance | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Walk | | 5 | | 5 | | 5 | | 5 | | |
| Ped Clearance | | 32 | | 38 | | 30 | | 36 | | |
| Red Revert | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| Add Initial | | | | | | | | | | |
| Max Initial | | | | | | | | | | |
| Time B4 Reduct | | 8 | | 8 | | 8 | | 8 | | |
| Cars B4 Reduct | | | | | | | | | | |
| Time To Reduce | | 25 | | 15 | | 25 | | 15 | | |
| Reduce By | | | | | | | | | | |
| Min Gap | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| DyMaxLim | | | | | | | | | | |
| Max Step | | | | | | | | | | |

| Options [1.1.2] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Enable | X | X | X | X | X | X | X | X | | |
| Min Recall | | | | | | | | | | |
| Max Recall | | | | | | | | | | |
| Ped Recall | | | | | | | | | | |
| Soft Recall | | X | | | | X | | | | |
| Lock Calls | | | | | | | | | | |
| Auto Flash Entry | | | | | | | | | | |
| Auto Flash Exit | | | | | | | | | | |
| Dual Entry | | X | | X | | X | | X | | |
| Enable Simul Gap | | | | | | | | | | |
| Gaurantee Passage | | | | | | | | | | |
| Rest In Walk | | | | | | | | | | |
| Conditonal Service | | | | | | | | | | |
| Non-Actuated 1 | | | | | | | | | | |
| Non-Actuated 2 | | | | | | | | | | |
| Add Init Calc | | | | | | | | | | |




| Phase Options+ [1.1.3] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Options+ | | | | | | | | | | |
| Reservice | | | | | | | | | | |
| PedClr Thru Yel | | | | | | | | | | |
| SkipRed-NoCall | | | | | | | | | | |
| Red Rest | | | | | | | | | | |
| Max II | | | | | | | | | | |
| *Max III | | | | | | | | | | |
| Max Inhibit | | | | | | | | | | |
| Ped Delay | | | | | | | | | | |
| Red Rest on Gap | | | | | | | | | | |
| Conflicting Phase | | | | | | | | | | |
| Grn/Ped Delay | | | | | | | | | | |
| Omit Yel, Yel P | | | | | | | | | | |
| Ped Out/Olp Ped | | | | | | | | | | |
| StartYel, Next P | | | | | | | | | | |
| *StartupVehCall | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| *StartupPedCall | | | | | | | | | | |

Phase Concurrency [1.1.4]

| Phase | Ring | StartUp | Concurrent Phases | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | RED | 5 | 6 | 0 | 0 | | | | |
| 2 | 1 | GREEN | 5 | 6 | 0 | 0 | | | | |
| 3 | 1 | RED | 7 | 8 | 0 | 0 | | | | |
| 4 | 1 | RED | 7 | 8 | 0 | 0 | | | | |
| 5 | 2 | RED | 1 | 2 | 0 | 0 | | | | |
| 6 | 2 | GREEN | 1 | 2 | 0 | 0 | | | | |
| 7 | 2 | RED | 3 | 4 | 0 | 0 | | | | |
| 8 | 2 | RED | 3 | 4 | 0 | 0 | | | | |
| 9 | | RED | 0 | 0 | 0 | 0 | | | | |
| 10 | | RED | 0 | 0 | 0 | 0 | | | | |
| 11 | | RED | 0 | 0 | 0 | 0 | | | | |
| 12 | | RED | 0 | 0 | 0 | 0 | | | | |

Comm Ports [6.6]

| Channel | Port | Echo | Mode |
|---|---|---|---|
| Async 1 | SP1 | NONE | 0 |
| Async 2 | SP2 | NONE | 0 |
| Async 3 | SP8 | NONE | 0 |
| Async 4 | OFF | NONE | 0 |
| Sync 1 | SP5S | | |
| Sync 2 | OFF | | |
| TS2CVM | NONE | | |
| Opticom | NONE | | |
| GPS | NONE | | |

Unit Params [1.2.1]

| | | | |
|---|---|---|---|
| Screen Size | 8 | Metric | OFF |
| Startup Flash | 0 | Red Revert | 2 |
| MCE Timeout | 0 | Auto Ped Clear | OFF |
| Loc Flsh Start | RSt | Display Time | 60 |
| Yellow < 3* | OFF | Tone Disable | ON |
| Allow Skip Yel | OFF | AudioPedTime | 0 |
| Start Red Trn | 6 | Phase Mode | STD8 |
| Startup Calls | UseProg | CNA FreeTime | 0 |
| TOD Dimming | OFF | Diamond Mode | 4Ph |
| ST over Prmpt | OFF | Free Ring Seq | 1 |
| Feature Profile | 1 | IO Mode | USER |
| Mx Seek TrkTm | 0 | Max Cyc Timer | 0 |
| Mx Seek Dwell | 0 | CycFlt Actn | ALARM |
| Prmpt/Ext Coor | EXT | Clrnc Decide | OFF |
| Aux Switch | STOPTM | LPAlt Srs | 3-6 |
| *InhFYA Red St | OFF | Security Delay | 0 |
| RingA1go | 0 | | |

* - 76.12B or newer

Times+ [1.1.7]

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Walk2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BikeClr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GrnFlash | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SfClrMn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SfClrNoFlsh | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| NoPed Reserv | | | | | | | | |

Comm [6.2]

| Port | Baud Rate | FCM |
|---|---|---|
| 1 | 38400 | 6 |
| 2 | 9600 | 6 |
| 3 | 9600 | 6 |
| 4 | 9600 | 6 |

Comm [6.5]

| | | | | | Host IPs | | | |
|---|---|---|---|---|---|---|---|---|
| IP Address: | 10 | 53 | 26 | 131 | ATMS | | | |
| Mask: | 255 | 255 | 255 | 0 | 10 | 50 | 10 | 22 |
| Gateway: | 10 | 53 | 26 | 1 | SG | | | |
| Port #: | 5126 | | | | 0 | 0 | 0 | 0 |

City of FRESNO

Phase Seq. (2 ring) Chart [1.2.4]

| Seq # | Ring | Phases | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 2 | 3 | 4 | 0 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 | 0 |
| 2 | 1 | 1 | 2 | 3 | 4 | 0 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 | 0 |
| 3 | 1 | 2 | 1 | 3 | 4 | 0 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 | 0 |
| 4 | 1 | 2 | 1 | 3 | 4 | 0 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 | 0 |
| 5 | 1 | 1 | 2 | 3 | 4 | 0 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 | 0 |
| 6 | 1 | 1 | 2 | 3 | 4 | 0 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 | 0 |
| 7 | 1 | 2 | 1 | 3 | 4 | 0 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 | 0 |
| 8 | 1 | 2 | 1 | 3 | 4 | 0 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 | 0 |
| 9 | 1 | 1 | 2 | 4 | 3 | 0 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 | 0 |
| 10 | 1 | 1 | 2 | 4 | 3 | 0 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 | 0 |
| 11 | 1 | 2 | 1 | 4 | 3 | 0 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 | 0 |
| 12 | 1 | 2 | 1 | 4 | 3 | 0 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 | 0 |
| 13 | 1 | 1 | 2 | 4 | 3 | 0 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 | 0 |
| 14 | 1 | 1 | 2 | 4 | 3 | 0 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 | 0 |
| 15 | 1 | 2 | 1 | 4 | 3 | 0 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 | 0 |
| 16 | 1 | 2 | 1 | 4 | 3 | 0 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 | 0 |

Advance Warning [1.1.9]

| | Ph | Tm |
|---|---|---|
| Aux Out #1 | 0 | 0 |
| Aux Out #2 | 0 | 0 |

NAME: Behymer & Willow ID: 285 Configuration: Standard File

V76.12/13
Updated 12/6/17

| | | | |
|---|---|---|---|
| Prepared by: | JT | Date Installed / By: | 2/29/2020 (JT) |
| Checked by: | JT | Date Superseded: | |

Date Printed: 2/28/20

## [2.1] Coord Modes+

| | |
|---|---|
| Test OpMode | 0 |
| Correction | SHRT/LNG |
| Maximum | MAX INH |
| Force Mode | FIXED |
| Flash Mode | CHANNEL |
| **Coord Modes+ (Page 2)** | |
| FreeonSeqCh | ON |
| Closed Loop | OFF |
| External | OFF |
| Latch Sec Frc | OFF |
| Stop-in-Walk | OFF |
| Ped Recycle | P1256_INH |
| Expand Split | OFF |
| Easy Float | OFF |
| Auto Reset | ON |
| NTCIP Yield | + 0 |
| **Leave Walk** | |
| Before | TIMED |
| After | TIMED |

Intersection Name: Behymer & Willow

ID: 285

Date Printed: 2/28/2020

## [2.4] Patterns

| Pat# | Cyc | Off | Split | Seq |
|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 1 |
| 2 | 0 | 0 | 2 | 1 |
| 3 | 0 | 0 | 3 | 1 |
| 4 | 0 | 0 | 4 | 1 |
| 5 | 0 | 0 | 5 | 1 |
| 6 | 0 | 0 | 6 | 1 |
| 7 | 0 | 0 | 7 | 1 |
| 8 | 0 | 0 | 8 | 1 |
| 9 | 0 | 0 | 9 | 1 |
| 10 | 0 | 0 | 10 | 1 |
| 11 | 0 | 0 | 0 | 1 |
| 12 | 0 | 0 | 0 | 1 |
| 13 | 0 | 0 | 0 | 1 |

## [2.7.1-24] Splits

| Split | [2.7] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 2 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 3 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 4 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 5 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 6 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 7 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 8 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 9 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 10 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 11 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 12 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 13 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |

## [2.5] Transition

| Pat# | Short | Long | Dwell | No Shortway Ø | | | | E-Yld | Offset | Ret Hold | Flt | Min Veh | Min Ped | MI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 2 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 3 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 4 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 5 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 6 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 7 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 8 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 9 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | OFF |
| 10 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | OFF |
| 11 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 12 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 13 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |

PAGE 2

## [2.1] Coord Modes+

| | |
|---|---|
| Test OpMode | 0 |
| Correction | SHRT/LNG |
| Maximum | MAX INH |
| Force Mode | FIXED |
| Flash Mode | CHANNEL |
| **Coord Modes+ (Page 2)** | |
| FreeonSeqCh | ON |
| Closed Loop | OFF |
| External | OFF |
| Latch Sec Frc | OFF |
| Stop-in-Walk | OFF |
| Ped Recycle | P1256_INH |
| Expand Spit | OFF |
| Easy Float | OFF |
| Auto Reset | ON |
| NTCIP Yield | + 0 |
| **Leave Walk** | |
| Before | TIMED |
| After | TIMED |

Intersection Name: Behymer & Willow

ID: 285

City of FRESNO

Date Printed: 2/28/2020

## [2.4] Patterns

| Pat# | Cyc | Off | Split | Seq |
|---|---|---|---|---|
| 20 | 0 | 0 | 0 | 1 |
| 21 | 0 | 0 | 0 | 1 |
| 22 | 0 | 0 | 0 | 1 |
| 23 | 0 | 0 | 0 | 1 |
| 24 | 0 | 0 | 0 | 1 |
| 25 | 0 | 0 | 0 | 1 |
| 26 | 0 | 0 | 0 | 1 |
| 27 | 0 | 0 | 0 | 1 |
| 28 | 0 | 0 | 0 | 1 |
| 29 | 0 | 0 | 0 | 1 |
| 30 | 0 | 0 | 0 | 1 |
| 31 | 0 | 0 | 0 | 1 |
| 32 | 0 | 0 | 0 | 1 |

## [2.7.1-24] Splits

| Split | [2.7] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 21 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 22 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 23 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 24 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 25 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 26 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 27 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 28 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 29 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 30 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 31 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 32 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |

## [2.5] Transition

| Pat# | Short | Long | Dwell | No Shortway Ø | E-Yld | Offset | Ret Hold | Flt | Min Veh | Min Ped | MI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 21 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 22 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 23 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 24 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 25 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 26 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 27 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 28 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 29 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 30 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 31 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 32 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |

## [2.7.X.3] TSP Split Table

| Pat# | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 2 | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 2 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 3 | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 3 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 4 | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 4 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 5 | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 5 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |

## [2.9.2.(1-8)] Strategy Tables

| STRATEGY_1 | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

| STRATEGY_2 | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

| STRATEGY_3 | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

| STRATEGY_4 | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

| STRATEGY_5 | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

| STRATEGY_6 | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

| STRATEGY_7 | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

| STRATEGY_8 | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

| 6 | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 6 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |

| 9 - FREE | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 9 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |

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## Overlap 1-8 Program Parms & Parm+ [1.5.2.1] [1.5.2.8]

| | | | |
|---|---|---|---|
| 1 | Included Ø | | NORMAL |
| | Modifier Ø | | Grn |
| | Conflict Ø | | Yel 3 |
| A | Conflict Olap | | Red 1 |
| | Conflict Ped | | |
| 2 | Included Ø | | NORMAL |
| | Modifier Ø | | Grn |
| | Conflict Ø | | Yel 3 |
| B | Conflict Olap | | Red 1 |
| | Conflict Ped | | |
| 3 | Included Ø | | NORMAL |
| | Modifier Ø | | Grn |
| | Conflict Ø | | Yel 3 |
| C | Conflict Olap | | Red 1 |
| | Conflict Ped | | |
| 4 | Included Ø | | NORMAL |
| | Modifier Ø | | Grn |
| | Conflict Ø | | Yel 3 |
| D | Conflict Olap | | Red 1 |
| | Conflict Ped | | |
| 5 | Included Ø | | NORMAL |
| | Modifier Ø | | Grn |
| | Conflict Ø | | Yel 3 |
| E | Conflict Olap | | Red 1 |
| | Conflict Ped | | |
| 6 | Included Ø | | NORMAL |
| | Modifier Ø | | Grn |
| | Conflict Ø | | Yel 3 |
| F | Conflict Olap | | Red 1 |
| | Conflict Ped | | |
| 7 | Included Ø | | NORMAL |
| | Modifier Ø | | Grn |
| | Conflict Ø | | Yel 3 |
| G | Conflict Olap | | Red 1 |
| | Conflict Ped | | |
| 8 | Included Ø | | NORMAL |
| | Modifier Ø | | Grn |
| | Conflict Ø | | Yel 3 |
| H | Conflict Olap | | Red 1 |
| | Conflict Ped | | |

## OLP GENERAL PARAMETERS [1.5.1]

| | |
|---|---|
| Lock Inhibit | OFF |
| Conflict Lock Enable | OFF |
| Parent P Clearance | ON |
| Xtra Incl Phases | OFF |
| InhibitLockInterval | Always |

## Channel Parameters [1.8.3]

| | |
|---|---|
| Pre Invert Rail Input | OFF |

## Preemption Options+ [3.Pre #.6]

| Pre # | Enable | Type | Output | Pattern | Skip | Co+Pre | Flash | Max/Min |
|---|---|---|---|---|---|---|---|---|
| 1 | OFF | RAIL | TS2 | | OFF | OFF | OFF | MAX |
| 2 | OFF | RAIL | TS2 | | OFF | OFF | OFF | MAX |
| 3 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 4 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 5 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 6 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |

## Preemption Times [3.#.1]

| Pre # | Delay | MinDura | MaxPres | MinGrn | MinWlk | PedClr | Track Grn | Min Dwell |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | 10 | 60 | 6 | | 33 | | 10 |
| 4 | | 10 | 60 | 6 | | 33 | | 10 |
| 5 | | 10 | 60 | 6 | | 33 | | 10 |
| 6 | | 10 | 60 | 6 | | 33 | | 10 |

## Preemption, Options [3.#.3]

| Pre # | Lock Input | Over-ride Auto Flash | Over-ride Higher Preempt | Flash Dwell | Link |
|---|---|---|---|---|---|
| 1 | OFF | OFF | OFF | ON | |
| 2 | OFF | OFF | OFF | OFF | |
| 3 | OFF | OFF | OFF | OFF | |
| 4 | OFF | OFF | OFF | OFF | |
| 5 | OFF | OFF | OFF | OFF | |
| 6 | OFF | OFF | OFF | OFF | |

## Preemption, Times+ [3.#.4]

| Pre No. | Extend Dwell | Return Max | Ped Clr | Yel | Red |
|---|---|---|---|---|---|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | 20 | 10 | 3.9 | 2 |
| 4 | | 20 | 10 | 3.9 | 2 |
| 5 | | 20 | 10 | 3.9 | 2 |
| 6 | | 20 | 10 | 3.9 | 2 |

Pre 1 = RR1
Pre 2 = RR2
Pre 3 = EVA
Pre 4 = EVB
Pre 5 = EVC
Pre 6 = EVD

## Phases [3.#.2] - set the Dwell Phases

| Pre # | Column | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Dwell Veh | | | | | | | | | | |
| | Peds | | | | | | | | | | |
| 2 | Dwell Veh | | | | | | | | | | |
| | Peds | | | | | | | | | | |
| 3 | Dwell Veh | 2 | 5 | | | | | | | | |
| | Peds | | | | | | | | | | |
| 4 | Dwell Veh | 4 | 7 | | | | | | | | |
| | Peds | | | | | | | | | | |
| 5 | Dwell Veh | 6 | 1 | | | | | | | | |
| | Peds | | | | | | | | | | |
| 6 | Dwell Veh | 8 | 3 | | | | | | | | |
| | Peds | | | | | | | | | | |

## Phases [3.#.2] - Trk Veh

| Pre # | Phases |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

## Exit Phases [3.#.2]

| No. | Exit Phase | | | | |
|---|---|---|---|---|---|
| 1 | | | | | |
| 2 | | | | | |
| 3 | 2 | 5 | | | |
| 4 | 4 | 7 | | | |
| 5 | 1 | 6 | | | |
| 6 | 3 | 8 | | | |

## Overlaps+ [3.#.5]

| Pre # | | Preempt Overlaps + |
|---|---|---|
| 1 | Track | |
| | Dwell | |
| 2 | Track | |
| | Dwell | |
| 3 | Track | |
| | Dwell | |
| 4 | Track | |
| | Dwell | |
| 5 | Track | |
| | Dwell | |
| 6 | Track | |
| | Dwell | |

## Prog Parms+ (MM>1>5>2>X>3)

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

## OverlapB+: 1-A

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

## OverlapB+: 2-B

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

## OverlapB+: 3-C

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

## OverlapB+: 4-D

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

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# CHANNEL SETTINGS [1.8] plus UNIT PARAMETERS [1.2.1]

## CHANNEL SETTINGS [1.8.1]

| Channel | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase / Olap # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 2 | 4 | 6 | 8 |
| Channel Type | VEH | VEH | VEH | VEH | VEH | VEH | VEH | VEH | OLP | OLP | OLP | OLP | PED | PED | PED | PED |
| Channel Flash | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | DRK | DRK | DRK | DRK |
| Flash 1-2 Hertz | | X | | X | | X | | X | | | | | | | | |
| | Page 1 | | | | | | | | Page 2 | | | | | | | |

## Chan Settings [1.8.2]

| Channel | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|
| Phase / Olap # | | | | | | | | |
| Channel Type | VEH | VEH | VEH | VEH | VEH | VEH | VEH | VEH |
| Channel Flash | DRK | DRK | DRK | DRK | DRK | DRK | DRK | DRK |

## CHANNEL PARMETERS [1.8.3]

| | |
|---|---|
| CH 17-24 Mapping: | DEFAULT |
| D-Conn Mapping: | NONE |
| Invert Rail Inputs: | OFF |
| C1-C11-ABC IO Mode: | USER |

## IO PARAMETERS [1.8.6]

| | |
|---|---|
| C1-C11-ABC IO Mode: | USER |
| D-Conn Mapping: | NONE |
| T & F BIU Mapping | DEFAULT |
| Invert Rail Inputs: | OFF |
| EVP Ped Confirm | OFF |

## CHANNELS+ [1.8.4]

| Channel | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flash Green | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Flash Red | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Flash Yellow | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Inh Red Fl in Preempt | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Olap Ovrd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Override Type | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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## I/O LOGIC [1.8.7]

Prt Date: 2/28/2020

| Row# | Result I/O | Result Fcn | = | Operand_1 Inv | Op1 Src | Op1 I/0 | Op1 Fun | Op1 Logic Func | Operand_2 Inv | Op2 Src | Op2 I/0 | Op2 Fun | Op2 Logic Func | Operand_3 Inv | Op3 Src | Op3 I/0 | Op3 Fun | Op3 Logic Func | Timer Dly | Timer Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 2 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 3 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 4 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 5 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 6 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 7 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 8 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 9 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 10 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |

## Ped Parms (MM>5>4)

| Det# | Call | No Act | Max Pres | Err Cnt |
|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 |
| 2 | 2 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 |
| 4 | 4 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 |
| 6 | 6 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 |
| 8 | 8 | 0 | 0 | 0 |

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| Veh Par 1-32 [5.1] | | | | | | | | | | | Vehicle Options 1-32 [5.2] | | | | | | | | | Parameters+ 1-32 [5.3] | | | | | | | | Info Only | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Det # | Input Slot | Call Ø | Swi Ø | Dlay | Ext | Que | No Act | Max Pres | Err Cnt | Fail Time | Det # | Call | Ext | Que | Add Init | Red Lock | Yell Lock | occ | vol | Det # | Occupancy G | Occupancy Y | Occupancy R | Delay 1 | Delay 2 | Type | Src | Dir | Det # |
| 1 | 1I1U | 1 | | | | | 0 | 0 | 0 | 255 | 1 | X | X | - | - | - | - | X | X | 1 | X | X | - | | | NORM | | NBL1 | 1 |
| 2 | 2I2U | 2 | | | | | 0 | 0 | 0 | 255 | 2 | - | X | - | - | - | - | X | X | 2 | X | X | - | | | NORM | | | 2 |
| 3 | 2I2L | 2 | | | 2 | | 0 | 0 | 0 | 255 | 3 | X | - | - | - | - | - | X | X | 3 | X | X | - | | | STOPB | | | 3 |
| 4 | 2I3U | 2 | | | 2 | | 0 | 0 | 0 | 255 | 4 | X | - | - | - | - | - | X | X | 4 | X | X | - | | | STOPB | | SBT3 | 4 |
| 5 | 2I3L | 2 | | | 2 | | 0 | 0 | 0 | 255 | 5 | X | - | - | - | - | - | X | X | 5 | X | X | - | | | STOPB | | SBR1 | 5 |
| 6 | 2I4U | 2 | | | 2 | | 0 | 0 | 0 | 255 | 6 | X | - | - | - | - | - | X | X | 6 | X | X | - | | | STOPB | | SBT1 | 6 |
| 7 | 3I5U | 3 | | | | | 0 | 0 | 0 | 255 | 7 | X | X | - | - | - | - | X | X | 7 | X | X | - | | | NORM | | EBL1 | 7 |
| 8 | 4I6U | 4 | | | | | 0 | 0 | 0 | 255 | 8 | - | X | - | - | - | - | X | X | 8 | X | X | - | | | NORM | | | 8 |
| 9 | 4I6L | 4 | | 10 | 2 | | 0 | 0 | 0 | 255 | 9 | X | - | - | - | - | - | X | X | 9 | X | X | - | | | STOPB | | | 9 |
| 10 | 4I7U | 4 | | | 2 | | 0 | 0 | 0 | 255 | 10 | X | - | - | - | - | - | X | X | 10 | X | X | - | | | STOPB | | | 10 |
| 11 | 4I7L | 4 | | 15 | 2 | | 0 | 0 | 0 | 255 | 11 | X | - | - | - | - | - | X | X | 11 | X | X | - | | | STOPB | | | 11 |
| 12 | 4I8U | 4 | | | 2 | | 0 | 0 | 0 | 255 | 12 | X | - | - | - | - | - | X | X | 12 | X | X | - | | | STOPB | | WBT1 | 12 |
| 13 | 1I9U | 1 | | | | | 0 | 0 | 0 | 255 | 13 | X | X | - | - | - | - | X | X | 13 | X | X | - | | | NORM | | | 13 |
| 14 | 3I9L | 3 | | | | | 0 | 0 | 0 | 255 | 14 | X | X | - | - | - | - | X | X | 14 | X | X | - | | | NORM | | | 14 |
| 15 | 5J1U | 5 | | | | | 0 | 0 | 0 | 255 | 15 | X | X | - | - | - | - | X | X | 15 | X | X | - | | | NORM | | SBL1 | 15 |
| 16 | 6J2U | 6 | | | | | 0 | 0 | 0 | 255 | 16 | - | X | - | - | - | - | X | X | 16 | X | X | - | | | NORM | | | 16 |
| 17 | 6J2L | 6 | | | 2 | | 0 | 0 | 0 | 255 | 17 | X | - | - | - | - | - | X | X | 17 | X | X | - | | | STOPB | | | 17 |
| 18 | 6J3U | 6 | | | 2 | | 0 | 0 | 0 | 255 | 18 | X | - | - | - | - | - | X | X | 18 | X | X | - | | | STOPB | | NBT3 | 18 |
| 19 | 6J3L | 6 | | | 2 | | 0 | 0 | 0 | 255 | 19 | X | - | - | - | - | - | X | X | 19 | X | X | - | | | STOPB | | NBR1 | 19 |
| 20 | 6J4U | 6 | | | 2 | | 0 | 0 | 0 | 255 | 20 | X | - | - | - | - | - | X | X | 20 | X | X | - | | | STOPB | | NBT1 | 20 |
| 21 | 7J5U | 7 | | | | | 0 | 0 | 0 | 255 | 21 | X | X | - | - | - | - | X | X | 21 | X | X | - | | | NORM | | WBL1 | 21 |
| 22 | 8J6U | 8 | | | | | 0 | 0 | 0 | 255 | 22 | - | X | - | - | - | - | X | X | 22 | X | X | - | | | NORM | | | 22 |
| 23 | 8J6L | 8 | | | 2 | | 0 | 0 | 0 | 255 | 23 | X | - | - | - | - | - | X | X | 23 | X | X | - | | | STOPB | | | 23 |
| 24 | 8J7U | 8 | | | 2 | | 0 | 0 | 0 | 255 | 24 | X | - | - | - | - | - | X | X | 24 | X | X | - | | | STOPB | | EBT3 | 24 |
| 25 | 8J7L | 8 | | 15 | 2 | | 0 | 0 | 0 | 255 | 25 | X | - | - | - | - | - | X | X | 25 | X | X | - | | | STOPB | | EBR1 | 25 |
| 26 | 8J8U | 8 | | | 2 | | 0 | 0 | 0 | 255 | 26 | X | - | - | - | - | - | X | X | 26 | X | X | - | | | STOPB | | EBT1 | 26 |
| 27 | 5J9U | 5 | | | | | 0 | 0 | 0 | 255 | 27 | X | X | - | - | - | - | X | X | 27 | X | X | - | | | NORM | | | 27 |
| 28 | 7J9L | 7 | | | | | 0 | 0 | 0 | 255 | 28 | X | X | - | - | - | - | X | X | 28 | X | X | - | | | NORM | | | 28 |
| 29 | 2I11U | 2 | | | 2 | | 0 | 0 | 0 | 255 | 29 | X | - | - | - | - | - | X | X | 29 | X | X | - | | | STOPB | | | 29 |
| 30 | 4I11L | 4 | | 15 | 2 | | 0 | 0 | 0 | 255 | 30 | X | - | - | - | - | - | X | X | 30 | X | X | - | | | STOPB | | | 30 |
| 31 | 6J11U | 6 | | | 2 | | 0 | 0 | 0 | 255 | 31 | X | - | - | - | - | - | X | X | 31 | X | X | - | | | STOPB | | | 31 |
| 32 | 8J11L | 8 | | 15 | 2 | | 0 | 0 | 0 | 255 | 32 | X | - | - | - | - | - | X | X | 32 | X | X | - | | | STOPB | | | 32 |
| 33 | 1I1L | 1 | | | | | 0 | 0 | 0 | 255 | 33 | X | X | - | - | - | - | X | X | 33 | X | X | - | | | NORM | | NBL2 | 33 |
| 34 | 2I4L | 2 | | | 2 | | 0 | 0 | 0 | 255 | 34 | X | - | - | - | - | - | X | X | 34 | X | X | - | | | STOPB | | SBT2 | 34 |
| 35 | 3I5L | 3 | | | | | 0 | 0 | 0 | 255 | 35 | X | X | - | - | - | - | X | X | 35 | X | X | - | | | NORM | | EBL2 | 35 |
| 36 | 4I8L | 4 | | 15 | 2 | | 0 | 0 | 0 | 255 | 36 | X | - | - | - | - | - | X | X | 36 | X | X | - | | | STOPB | | WBR1 | 36 |
| 37 | 5J1L | 5 | | | | | 0 | 0 | 0 | 255 | 37 | X | X | - | - | - | - | X | X | 37 | X | X | - | | | NORM | | SBL2 | 37 |
| 38 | 6J4L | 6 | | | 2 | | 0 | 0 | 0 | 255 | 38 | X | - | - | - | - | - | X | X | 38 | X | X | - | | | STOPB | | NBT2 | 38 |
| 39 | 7J5L | 7 | | | | | 0 | 0 | 0 | 255 | 39 | X | X | - | - | - | - | X | X | 39 | X | X | - | | | NORM | | | 39 |
| 40 | 8J8L | 8 | | | 2 | | 0 | 0 | 0 | 255 | 40 | X | - | - | - | - | - | X | X | 40 | X | X | - | | | STOPB | | EBT2 | 40 |
| 41 | 4I10U | 4 | | | | | 0 | 0 | 0 | 255 | 41 | - | X | - | - | - | - | X | X | 41 | X | X | - | | | NORM | | | 41 |
| 42 | 4I10L | 4 | | | | | 0 | 0 | 0 | 255 | 42 | - | X | - | - | - | - | X | X | 42 | X | X | - | | | NORM | | | 42 |
| 43 | 8J10U | 8 | | | | | 0 | 0 | 0 | 255 | 43 | - | X | - | - | - | - | X | X | 43 | X | X | - | | | NORM | | | 43 |
| 44 | 8J10L | 8 | | | | | 0 | 0 | 0 | 255 | 44 | - | X | - | - | - | - | X | X | 44 | X | X | - | | | NORM | | | 44 |

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Vol/Occ Period: 0 Seconds, 5 Minutes

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### Alt# 1 Times Table [1.1.6.1]

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

### Alt# 2 Times Table [1.1.6.1]

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

### Alt# 3 Times Table [1.1.6.1]

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

### Alt# 1 Options Table [1.1.6.2]

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Entry | - | - | - | - | - | - | - | - |
| Enabl SimGap | - | - | - | - | - | - | - | - |
| Guar Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |

### Alt# 2 Options Table [1.1.6.2]

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Enrty | - | - | - | - | - | - | - | - |
| Enabl SimGap | - | - | - | - | - | - | - | - |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |

### Alt# 3 Options Table [1.1.6.2]

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Enrty | - | - | - | - | - | - | - | - |
| Enabl SimGap | - | - | - | - | - | - | - | - |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |

### Alt# 4 Options Table [1.1.6.2]

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Entry | - | - | - | - | - | - | - | - |
| Enabl SimGap | - | - | - | - | - | - | - | - |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |

### Alternate Tables [2.6]

| Pat# | POpt | PTime | DetGrp | Call/Inh | Olp Off 1 2 3 4 5 6 7 8 | ASC | CNA1 | Max2 | Dia |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | 0 | Off | | DFT |
| 2 | | | | | | 0 | Off | | DFT |
| 3 | | | | | | 0 | Off | | DFT |
| 4 | | | | | | 0 | Off | | DFT |
| 5 | | | | | | 0 | Off | | DFT |
| 6 | | | | | | 0 | Off | | DFT |
| 7 | | | | | | 0 | Off | | DFT |
| 8 | | | | | | 0 | Off | | DFT |
| 9 | | | | | | 0 | Off | | DFT |
| 10 | | | | | | 0 | Off | | DFT |
| 11 | | | | | | 0 | Off | | DFT |
| 12 | | | | | | 0 | Off | | DFT |
| 13 | | | | | | 0 | Off | | DFT |
| 14 | | | | | | 0 | Off | | DFT |
| 15 | | | | | | 0 | Off | | DFT |
| 16 | | | | | | 0 | Off | | DFT |
| 17 | | | | | | 0 | Off | | DFT |
| 18 | | | | | | 0 | Off | | DFT |
| 19 | | | | | | 0 | Off | | DFT |
| 20 | | | | | | 0 | Off | | DFT |
| 21 | | | | | | 0 | Off | | DFT |
| 22 | | | | | | 0 | Off | | DFT |
| 23 | | | | | | 0 | Off | | DFT |
| 24 | | | | | | 0 | Off | | DFT |

### Time Base Parameters [4.6]

| | | |
|---|---|---|
| Daylight Savings Time | ENABLE | |
| Time Base Sync Ref | 0 | |
| GMT Offset | - | 8 |
| Daylight Savings | Mon | Week |
| Spring | 3 | 2 |
| Fall | 11 | 1 |

**NOTE:** % and MI parameters are not used and are not shown above.

City of FRESNO

**NAME:** Behymer & Willow

2/28/2020 **ID:** 285

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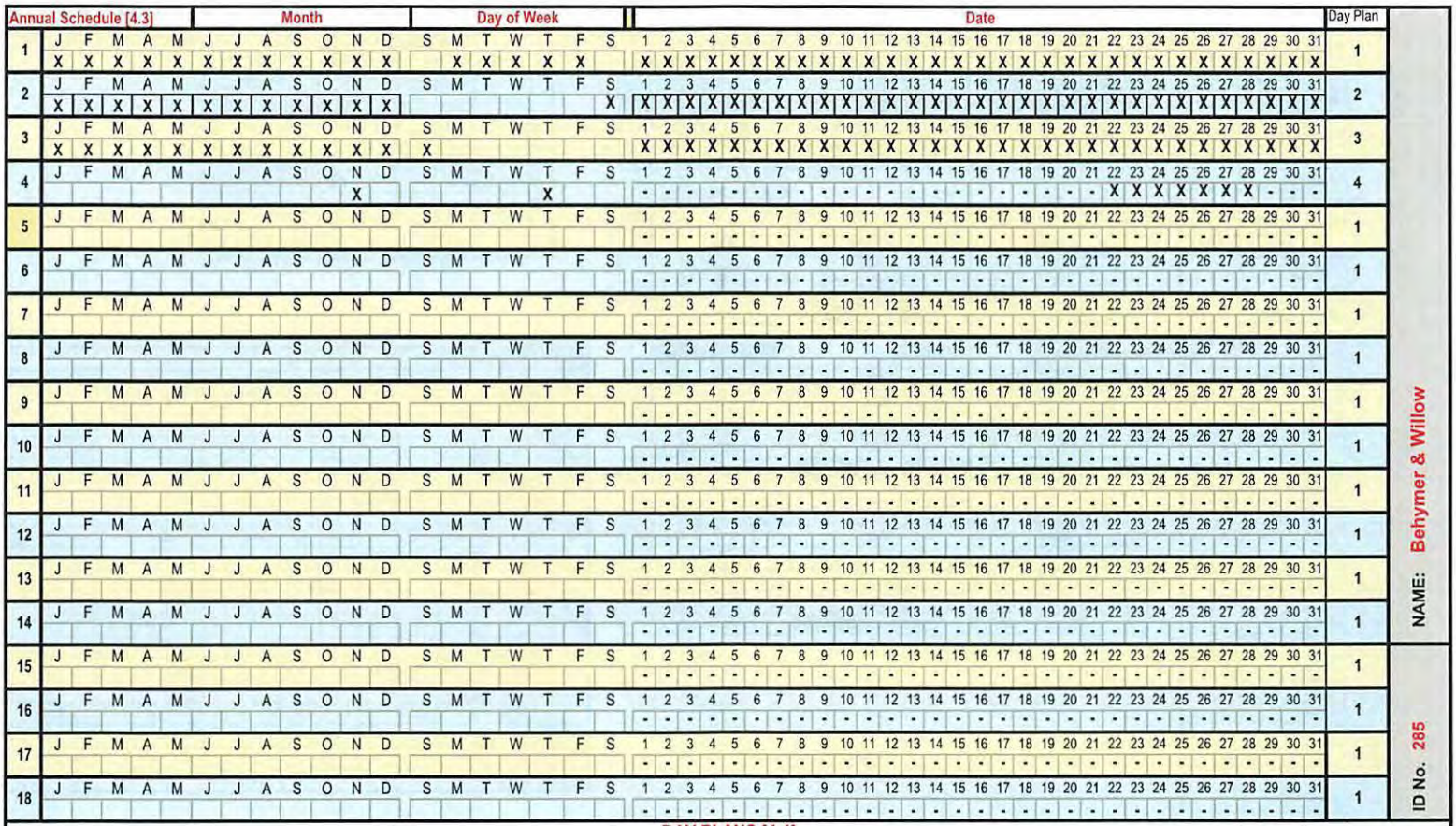



DAY PLANS [4.4]

| Plan 1 | | | | Plan 2 | | | | Plan 3 | | | | Plan 4 | | | | Plan 5 | | | | Plan 6 | | | | Plan 7 | | | | Plan 8 | | | | Plan 9 | | | | Plan 10 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act |
| 1 | | 1 | 54 | 1 | | 1 | 54 | 1 | | 1 | 54 | 1 | 0 | 1 | 54 | 1 | | | | 1 | | | | 1 | | | | 1 | | | | 1 | | | | 1 | | | |
| 2 | | | | 2 | | | | 2 | | | | 2 | 0 | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | |
| 3 | | | | 3 | | | | 3 | | | | 3 | 0 | | | 3 | | | | 3 | | | | 3 | | | | 3 | | | | 3 | | | | 3 | | | |
| 4 | | | | 4 | | | | 4 | | | | 4 | 0 | | | 4 | | | | 4 | | | | 4 | | | | 4 | | | | 4 | | | | 4 | | | |
| 5 | | | | 5 | | | | 5 | | | | 5 | 0 | | | 5 | | | | 5 | | | | 5 | | | | 5 | | | | 5 | | | | 5 | | | |
| 6 | | | | 6 | | | | 6 | | | | 6 | 0 | | | 6 | | | | 6 | | | | 6 | | | | 6 | | | | 6 | | | | 6 | | | |
| 7 | | | | 7 | | | | 7 | | | | 7 | 0 | | | 7 | | | | 7 | | | | 7 | | | | 7 | | | | 7 | | | | 7 | | | |
| 8 | | | | 8 | | | | 8 | | | | 8 | 0 | | | 8 | | | | 8 | | | | 8 | | | | 8 | | | | 8 | | | | 8 | | | |
| 9 | | | | 9 | | | | 9 | | | | 9 | 0 | | | 9 | | | | 9 | | | | 9 | | | | 9 | | | | 9 | | | | 9 | | | |
| 10 | | | | 10 | | | | 10 | | | | 10 | 0 | | | 10 | | | | 10 | | | | 10 | | | | 10 | | | | 10 | | | | 10 | | | |

| # | Alarm | Ev | Alr |
|---|---|---|---|
| 1 | Power Up Alarm. | X | X |
| 2 | Stop Timing | X | X |
| 3 | Cabinet Door Activation | - | - |
| 4 | Coordination Failure | X | X |
| 5 | External Alarm # 1 | - | - |
| 6 | External Alarm # 2 | - | - |
| 7 | External Alarm # 3 | - | - |
| 8 | External Alarm # 4 | - | - |
| 9 | Closed Loop Disabled | - | - |
| 10 | External Alarm # 5 | - | - |
| 11 | External Alarm # 6 | - | - |
| 12 | Manual Control Enable | X | X |
| 13 | Coord Free Input | - | - |
| 14 | Local Flash Input | X | X |
| 15 | CMU/MMU Flash Input | - | - |
| 16 | MMU Fault | X | X |
| 17 | Cycle Fault | X | - |
| 18 | Cycle Failure | X | - |
| 19 | Coordination Fault | X | X |
| 20 | Controller Fault | X | X |
| 25 | EEPROM CRC Fault | X | X |
| 30 | Coord Diagnostic Fault | X | X |
| 37 | Download Request | X | X |
| 38 | Pattern Change | - | - |
| 49 | Preempt 1 Input | X | X |
| 50 | Preempt 2 Input | X | X |
| 51 | Preempt 3 Input | X | X |
| 52 | Preempt 4 Input | X | X |
| 53 | Preempt 5 Input | X | X |
| 54 | Preempt 6 Input | X | X |
| 55 | Preempt 7 Input | - | - |
| 56 | Preempt 8 Input | - | - |
| 57 | Preempt 9 Input | - | - |
| 58 | Preempt 10 Input | - | - |
| 59 | EEPROM Compare Fault | X | X |
| 60 | Coordination Failure | X | X |
| 63 | TSP Active Trigger | - | - |
| 73 | Controller Access | X | X |
| 81 | FIO Changed Status | X | X |

**#1 Bus Preempt**

| | | Times | | Prior. Phases | | | | |
|---|---|---|---|---|---|---|---|---|
| Enable | OFF | Min | 0 | 0 | 0 | 0 | 0 | |
| Coor+Pre | OFF | Max | 0 | ---TSP--- | | | | |
| Lock Mode | MAX | Lock | 0 | Headway | 0 | | | |
| No Skip | OFF | Alt Table | 0 | GrpLock | OFF | | | |
| Qjump | OFF | HoldDwell | #N/A | FreeMod | OFF | | | |

**#2 Bus Preempt**

| | | Times | | Prior. Phases | | | | |
|---|---|---|---|---|---|---|---|---|
| Enable | OFF | Min | 0 | 0 | 0 | 0 | 0 | |
| Coor+Pre | OFF | Max | 0 | ---TSP--- | | | | |
| Lock Mode | MAX | Lock | 0 | Headway | 0 | | | |
| No Skip | OFF | Alt Table | 0 | GrpLock | OFF | | | |
| Qjump | OFF | HoldDwell | #N/A | FreeMod | OFF | | | |

**#3 Bus Preempt**

| | | Times | | Prior. Phases | | | | |
|---|---|---|---|---|---|---|---|---|
| Enable | OFF | Min | 0 | 0 | 0 | 0 | 0 | |
| Coor+Pre | OFF | Max | 0 | ---TSP--- | | | | |
| Lock Mode | MAX | Lock | 0 | Headway | 0 | | | |
| No Skip | OFF | Alt Table | 0 | GrpLock | OFF | | | |
| Qjump | OFF | HoldDwell | #N/A | FreeMod | OFF | | | |

**#4 Bus Preempt**

| | | Times | | Prior. Phases | | | | |
|---|---|---|---|---|---|---|---|---|
| Enable | OFF | Min | 0 | 0 | 0 | 0 | 0 | |
| Coor+Pre | OFF | Max | 0 | ---TSP--- | | | | |
| Lock Mode | MAX | Lock | 0 | Headway | 0 | | | |
| No Skip | OFF | Alt Table | 0 | GrpLock | OFF | | | |
| Qjump | OFF | HoldDwell | #N/A | FreeMod | OFF | | | |

**I/O INPUT TABLE**

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 16 | 8 | 22 | 3 | 17 | 9 | 23 |
| 2 | 6 | 20 | 12 | 26 | 198 | 199 | 30 | 31 |
| 3 | 15 | 1 | 21 | 7 | 27 | 13 | 28 | 14 |
| 4 | 189 | 189 | 189 | 189 | 4 | 18 | 10 | 24 |
| 5 | 130 | 134 | 132 | 136 | 200 | 201 | 202 | 203 |
| 6 | 32 | 5 | 19 | 11 | 25 | 29 | 208 | 207 |
| 7 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 8 | 41 | 42 | 43 | 44 | 189 | 189 | 189 | 189 |

**ACTION Table [4.5]**

| Act | Pat# | A1 | A2 | A3 | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | P1 | P2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 15 | 15 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 16 | 0 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 54 | 254 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 55 | 0 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |

**Alarm Parameters [1.6.7.1]**

| | |
|---|---|
| Pattern Events: | ON |
| Local Txmt Alarms: | OFF |
| Reassign User Alarm #1 In (5): | 0 |
| Reassign User Alarm #2 In (6): | 0 |
| Preempt Events: | ON |

City of FRESNO

Date Printed
2/28/2020

ID: 285 Name: Behymer & Willow

## I/O Inputs - 1.8.9.1.5

| C-1 PIN | I/O Source | Function | Input Name |
|---|---|---|---|
| 39 | I1-1 | 2 | Veh Det 2 |
| 40 | I1-2 | 16 | Veh Det 16 |
| 41 | I1-3 | 8 | Veh Det 8 |
| 42 | I1-4 | 22 | Veh Det 22 |
| 43 | I1-5 | 3 | Veh Det 3 |
| 44 | I1-6 | 17 | Veh Det 17 |
| 45 | I1-7 | 9 | Veh Det 9 |
| 46 | I1-8 | 23 | Veh Det 23 |
| 47 | I2-1 | 6 | Veh Det 6 |
| 48 | I2-2 | 20 | Veh Det 20 |
| 49 | I2-3 | 12 | Veh Det 12 |
| 50 | I2-4 | 26 | Veh Det 26 |
| 51 | I2-5 | 198 | Pre 1 In |
| 52 | I2-6 | 199 | Pre 2 In |
| 53 | I2-7 | 30 | Veh Det 30 |
| 54 | I2-8 | 31 | Veh Det 31 |
| 55 | I3-1 | 15 | Veh Det 15 |
| 56 | I3-2 | 1 | Veh Det 1 |
| 57 | I3-3 | 21 | Veh Det 21 |
| 58 | I3-4 | 7 | Veh Det 7 |
| 59 | I3-5 | 27 | Veh Det 27 |
| 60 | I3-6 | 13 | Veh Det 13 |
| 61 | I3-7 | 28 | Veh Det 28 |
| 62 | I3-8 | 14 | Veh Det 14 |
| 63 | I4-5 | 4 | Veh Det 4 |
| 64 | I4-6 | 18 | Veh Det 18 |
| 65 | I4-7 | 10 | Veh Det 10 |
| 66 | I4-8 | 24 | Veh Det 24 |
| 67 | I5-1 | 130 | Ped Call 2 |
| 68 | I5-2 | 134 | Ped Call 6 |
| 69 | I5-3 | 132 | Ped Call 4 |
| 70 | I5-4 | 136 | Ped Call 8 |
| 71 | I5-5 | 200 | Pre 3 In |
| 72 | I5-6 | 201 | Pre 4 In |
| 73 | I5-7 | 202 | Pre 5 In |
| 74 | I5-8 | 203 | Pre 6 In |
| 75 | I6-1 | 32 | Veh Det 32 |
| 76 | I6-2 | 5 | Veh Det 5 |
| 77 | I6-3 | 19 | Veh Det 19 |
| 78 | I6-4 | 11 | Veh Det 11 |
| 79 | I6-5 | 25 | Veh Det 25 |
| 80 | I6-6 | 29 | Veh Det 29 |
| 81 | I6-7 | 208 | Local Flash |
| 82 | I6-8 | 207 | Comp StopTm |

## I/O OUTPUTS - 1.8.9.2.5

| C-1 PIN | I/O Source | Function | Output Name |
|---|---|---|---|
| 1 | Logic Grd | | |
| 2 | O1-1 | 14 | Red Ch 14 |
| 3 | O1-2 | 62 | Grn Chan 14 |
| 4 | O1-3 | 4 | Red Ch 4 |
| 5 | O1-4 | 28 | Yel Chan 4 |
| 6 | O1-5 | 52 | Grn Chan 4 |
| 7 | O1-6 | 3 | Red Ch 3 |
| 8 | O1-7 | 27 | Yel Chan 3 |
| 9 | O1-8 | 51 | Grn Chan 3 |
| 10 | O2-1 | 13 | Red Ch 13 |
| 11 | O2-2 | 61 | Grn Chan 13 |
| 12 | O2-3 | 2 | Red Ch 2 |
| 13 | O2-4 | 26 | Yel Chan 2 |
| 14 | Logic Grd | | |
| 15 | O2-5 | 50 | Grn Chan 2 |
| 16 | O2-6 | 1 | Red Ch 1 |
| 17 | O2-7 | 25 | Yel Chan 1 |
| 18 | O2-8 | 49 | Grn Chan 1 |
| 19 | O3-1 | 16 | Red Ch 16 |
| 20 | O3-2 | 64 | Grn Chan 16 |
| 21 | O3-3 | 8 | Red Ch 8 |
| 22 | O3-4 | 32 | Yel Chan 8 |
| 23 | O3-5 | 56 | Grn Chan 8 |
| 24 | O3-6 | 7 | Red Ch 7 |
| 25 | O3-7 | 31 | Yel Chan 7 |
| 26 | O3-8 | 55 | Grn Chan 7 |
| 27 | O4-1 | 15 | Red Ch 15 |
| 28 | O4-2 | 63 | Grn Chan 15 |
| 29 | O4-3 | 6 | Red Ch 6 |
| 30 | O4-4 | 30 | Yel Chan 6 |
| 31 | O4-5 | 54 | Grn Chan 6 |
| 32 | O4-6 | 5 | Red Ch 5 |
| 33 | O4-7 | 29 | Yel Chan 5 |
| 34 | O4-8 | 53 | Grn Chan 5 |
| 35 | O5-1 | 37 | Yel Chan 13 |
| 36 | O5-2 | 39 | Yel Chan 15 |
| 37 | O5-3 | 38 | Yel Chan 14 |
| 38 | O5-4 | 40 | Yel Chan 16 |
| 100 | O5-5 | 42 | Yel Chan 18 |
| 101 | O5-6 | 41 | Yel Chan 17 |
| 102 | O5-7 | 115 | Not Used |
| 103 | O5-8 | 114 | Watchdog |
| | | | |
| | | | |

| C-1 PIN | I/O Source | Function | Output Name |
|---|---|---|---|
| 83 | O6-1 | 18 | Red Ch 18 |
| 84 | O6-2 | 66 | Grn Chan 18 |
| 85 | O6-3 | 12 | Red Ch 12 |
| 86 | O6-4 | 36 | Yel Chan 12 |
| 87 | O6-5 | 60 | Grn Chan 12 |
| 88 | O6-6 | 11 | Red Ch 11 |
| 89 | O6-7 | 35 | Yel Chan 11 |
| 90 | O6-8 | 59 | Grn Chan 11 |
| 91 | O7-1 | 17 | Red Ch 17 |
| 92 | Logic Grd | | |
| 93 | O7-2 | 65 | Grn Chan 17 |
| 94 | O7-3 | 10 | Red Ch 10 |
| 95 | O7-4 | 34 | Yel Chan 10 |
| 96 | O7-5 | 58 | Grn Chan 10 |
| 97 | O7-6 | 9 | Red Ch 9 |
| 98 | O7-7 | 33 | Yel Chan 9 |
| 99 | O7-8 | 57 | Grn Chan 9 |

### I/O Outputs - 1.8.9.2.5
### C-11 OUTPUTS

| | | | |
|---|---|---|---|
| 1 | O8-1 | 115 | Not Used |
| 2 | O8-2 | 115 | Not Used |
| 3 | O8-3 | 115 | Not Used |
| 4 | O8-4 | 115 | Not Used |

### I/O Inputs - 1.8.9.1.5
### C-11 INPUTS

| | | | |
|---|---|---|---|
| 15 | I7-1 | 33 | Veh Det 33 |
| 16 | I7-2 | 34 | Veh Det 34 |
| 17 | I7-3 | 35 | Veh Det 35 |
| 18 | I7-4 | 36 | Veh Det 36 |
| 19 | I7-5 | 37 | Veh Det 37 |
| 20 | I7-6 | 38 | Veh Det 38 |
| 21 | I7-7 | 39 | Veh Det 39 |
| 22 | I7-8 | 40 | Veh Det 40 |
| 23 | I8-1 | 41 | Veh Det 41 |
| 24 | I8-2 | 42 | Veh Det 42 |
| 25 | I8-3 | 43 | Veh Det 43 |
| 26 | I8-4 | 44 | Veh Det 44 |
| 27 | I8-5 | 189 | Unused |
| 28 | I8-6 | 189 | Unused |
| 29 | I8-7 | 189 | Unused |
| 30 | I8-8 | 189 | Unused |
| | | | |
| | | | |
| | | | |

City of FRESNO

ID: 285

NAME: Behymer & Willow

Date Printed: 2/28/2020

ID Number: 285

LOCATION: Behymer & Willow

# City of Fresno
# 332 Cabinet
# 44 Detector Plus Setup

| | DETECTOR ASSIGNMENTS | | | | | | | | | | | ISOLATORS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| "I" | I1 | I2 | I3 | I4 | I5 | I6 | I7 | I8 | I9 | I10 | I11 | I12 | I13 | I14 |
| UPPER | Ph 1<br>Call&Ext<br>T2-1&2<br>C1-56<br>Det 1<br>NBL1 | Ph 2<br>Ext<br>T2-5&6<br>C1-39<br>Det 2<br>SB Far | Ph 2<br>Call&TP3<br>T2-9&10<br>C1-63<br>Det 4<br>SB Mid | Ph 2<br>Call&TP3<br>T4-1&2<br>C1-47<br>Det 6<br>SBT1 | Ph 3<br>Call&Ext<br>T4-5&6<br>C1-58<br>Det 7<br>EBL1 | Ph 4<br>Ext<br>T4-9&10<br>C1-41<br>Det 8<br>WB Far | Ph 4<br>Call&TP3<br>T6-1&2<br>C1-65<br>Det 10<br>WB Mid | Ph 4<br>Call&TP3<br>T6-5&6<br>C1-49<br>Det 12<br>WBT1 | Ph 1<br>Call&Ext<br>T6-9&10<br>C1-60<br>Det 13<br>NBLt Bk | Ph 2/4<br>Ext<br>T10-5&6<br>C11-23<br>Det 41 | Ph 2<br>Call&Ext<br>T8-1<br>C1-80<br>Det 29<br>BIKE | Ph 2<br>PPB<br>T8-4<br>C1-67 | Ph 6<br>PPB<br>T8-7<br>C1-68 | FLASH<br>SENSE<br>T8-10<br>C1-81 |
| LOWER | Ph 1<br>Call&Ext<br>T2-3&4<br>C11-15<br>Det 33<br>NBL2 | Ph 2<br>Call&TP3<br>T2-7&8<br>C1-43<br>Det 3<br>SB Bk | Ph 2<br>Call&Ext<br>T2-11&12<br>C1-76<br>Det 5<br>SBRt | Ph 2<br>Call&TP3<br>T4-3&4<br>C11-16<br>Det 34<br>SBT2 | Ph 3<br>Call&Ext<br>T4-7&8<br>C11-17<br>Det 35<br>EBL2 | Ph 4<br>Call&TP3<br>T4-11&12<br>C1-45<br>Det 9<br>WB Bk | Ph 4<br>Call&Ext<br>T6-3&4<br>C1-78<br>Det 11<br>WBRt | Ph 4<br>Call&TP3<br>T6-7&8<br>C11-18<br>Det 36<br>WBT2 | Ph 3<br>Call&Ext<br>T6-11&12<br>C1-62<br>Det 14<br>EBLt Bk | Ph 2/4<br>Ext<br>T10-7&8<br>C11-24<br>Det 42 | Ph 4<br>Call&Ext<br>T8-2<br>C1-53<br>Det 30<br>BIKE | Ph 4<br>PPB<br>T8-5<br>C1-69 | Ph 8<br>PPB<br>T8-8<br>C1-70 | STOP<br>TIMING<br>T8-11<br>C1-82 |
| "J" | J1 | J2 | J3 | J4 | J5 | J6 | J7 | J8 | J9 | J10 | J11 | J12 | J13 | J14 |
| UPPER | Ph 5<br>Call&Ext<br>T3-1&2<br>C1-55<br>Det 15<br>SBL1 | Ph 6<br>Ext<br>T3-5&6<br>C1-40<br>Det 16<br>NB Far | Ph 6<br>Call&TP3<br>T3-9&10<br>C1-64<br>Det 18<br>NB Mid | Ph 6<br>Call&TP3<br>T5-1&2<br>C1-48<br>Det 20<br>NBT1 | Ph 7<br>Call&Ext<br>T5-5&6<br>C1-57<br>Det 21<br>WBL1 | Ph 8<br>Ext<br>T5-9&10<br>C1-42<br>Det 22<br>EB Far | Ph 8<br>Call&TP3<br>T7-1&2<br>C1-66<br>Det 24<br>EB Mid | Ph 8<br>Call&TP3<br>T7-5&6<br>C1-50<br>Det 26<br>EBT1 | Ph 5<br>Call&Ext<br>T7-9&10<br>C1-59<br>Det 27<br>SBLt Bk | Ph 6/8<br>Ext<br>T10-9&10<br>C11-25<br>Det 43 | Ph 6<br>Call&Ext<br>T9-1<br>C1-54<br>Det 31<br>BIKE | EMER A<br>Ph 2 + 5<br>T9-4<br>C1-71 | EMER B<br>Ph 4 + 7<br>T9-5<br>C1-72 | RR1<br>FLASH<br>T9-10<br>C1-51 |
| LOWER | Ph 5<br>Call&Ext<br>T3-3&4<br>C11-19<br>Det 37<br>SBL2 | Ph 6<br>Call&TP3<br>T3-7&8<br>C1-44<br>Det 17<br>NB Bk | Ph 6<br>Call&Ext<br>T3-11&12<br>C1-77<br>Det 19<br>NBRt | Ph 6<br>Call&TP3<br>T5-3&4<br>C11-20<br>Det 38<br>NBT2 | Ph 7<br>Call&Ext<br>T5-7&8<br>C11-21<br>Det 39<br>WBL2 | Ph 8<br>Call&TP3<br>T5-11&12<br>C1-46<br>Det 23<br>EB Bk | Ph 8<br>Call&Ext<br>T7-3&4<br>C1-79<br>Det 25<br>EBRt | Ph 8<br>Call&TP3<br>T7-7&8<br>C11-22<br>Det 40<br>EBT2 | Ph 7<br>Call&Ext<br>T7-11&12<br>C1-61<br>Det 28<br>WBLt Bk | Ph 6/8<br>EXT<br>T10-11&12<br>C11-26<br>Det 44 | Ph 8<br>Call&Ext<br>T9-2<br>C1-75<br>Det 32<br>BIKE | EMER C<br>Ph 1 + 6<br>T9-7<br>C1-73 | EMER D<br>Ph 3 + 8<br>T9-8<br>C1-74 | RR2<br>LTD OP<br>T9-11<br>C1-52 |

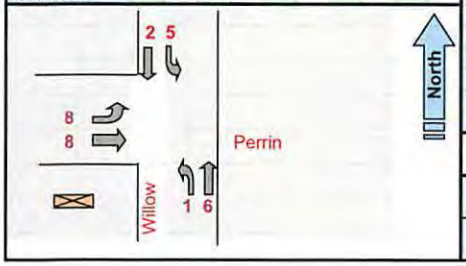
COMMENTS:

**TIMING UPDATES AND MODIFICATIONS**

**ID:** 285 **NAME:** Behymer & Willow

| DATE | CHANGES MADE | ATMS or CABINET | BY |
|---|---|---|---|
| 2/28/2020 | Updated All Red Start from 4 to 6 seconds. Updated timing calculations, FDW, and detector attributes. | ATMS | JT |
| | | | |
| | | | |
| | | |

| Movement | NL | ST | | | SL | NT | | ET | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Times [1.1.1] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Min Green | 8 | 8 | | | 8 | 8 | | 8 | | |
| Gap, Ext | 2 | 5.9 | | | 2 | 5.9 | | 5.5 | | |
| Max 1 | 20 | 35 | | | 20 | 35 | | 30 | | |
| Max 2 | 12 | 25 | | | 12 | 25 | | 20 | | |
| Yel Clearance | 4.3 | 4.7 | | | 4.3 | 4.7 | | 4.3 | | |
| Red Clearance | 2 | 1 | | | 1 | 1 | | 1 | | |
| Walk | | 5 | | | | | | | | |
| Ped Clearance | | 32 | | | | | | | | |
| Red Revert | 2 | 2 | | | 2 | 2 | | 2 | | |
| Add Initial | | | | | | | | | | |
| Max Initial | | | | | | | | | | |
| Time B4 Reduct | | 8 | | | | 8 | | 8 | | |
| Cars B4 Reduct | | | | | | | | | | |
| Time To Reduce | | 18 | | | | 18 | | 15 | | |
| Reduce By | | | | | | | | | | |
| Min Gap | 2 | 2 | | | 2 | 2 | | 2 | | |
| DyMaxLim | | | | | | | | | | |
| Max Step | | | | | | | | | | |
| Options [1.1.2] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Enable | X | X | | | X | X | | X | | |
| Min Recall | | | | | | | | | | |
| Max Recall | | | | | | | | | | |
| Ped Recall | | | | | | | | | | |
| Soft Recall | | X | | | | X | | | | |
| Lock Calls | | | | | | | | | | |
| Auto Flash Entry | | | | | | | | | | |
| Auto Flash Exit | | | | | | | | | | |
| Dual Entry | | X | | | | X | | | | |
| Enable Simul Gap | | | | | | | | | | |
| Gaurantee Passage | | | | | | | | | | |
| Rest In Walk | | | | | | | | | | |
| Conditonal Service | | | | | | | | | | |
| Non-Actuated 1 | | | | | | | | | | |
| Non-Actuated 2 | | | | | | | | | | |
| Add Init Calc | | | | | | | | | | |




Phase Options+ [1.1.3]

| Options+ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Reservice | | | | | | | | | | |
| PedClr Thru Yel | | | | | | | | | | |
| SkipRed-NoCall | | | | | | | | | | |
| Red Rest | | | | | | | | | | |
| Max II | | | | | | | | | | |
| *Max III | | | | | | | | | | |
| Max Inhibit | | | | | | | | | | |
| Ped Delay | | | | | | | | | | |
| Red Rest on Gap | | | | | | | | | | |
| Conflicting Phase | | | | | | | | | | |
| Grn/Ped Delay | | | | | | | | | | |
| Omit Yel, Yel P | | | | | | | | | | |
| Ped Out/Olp Ped | | | | | | | | | | |
| StartYel, Next P | | | | | | | | | | |
| *StartupVehCall | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| *StartupPedCall | | | | | | | | | | |

Phase Concurrency [1.1.4]

| Phase | Ring | StartUp | Concurrent Phases | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | RED | 5 | 6 | 0 | 0 | | | | |
| 2 | 1 | GREEN | 5 | 6 | 0 | 0 | | | | |
| 3 | 1 | RED | 7 | 8 | 0 | 0 | | | | |
| 4 | 1 | RED | 7 | 8 | 0 | 0 | | | | |
| 5 | 2 | RED | 1 | 2 | 0 | 0 | | | | |
| 6 | 2 | GREEN | 1 | 2 | 0 | 0 | | | | |
| 7 | 2 | RED | 3 | 4 | 0 | 0 | | | | |
| 8 | 2 | RED | 3 | 4 | 0 | 0 | | | | |
| 9 | 3 | RED | 0 | 0 | 0 | 0 | | | | |
| 10 | 3 | RED | 0 | 0 | 0 | 0 | | | | |
| 11 | 4 | RED | 0 | 0 | 0 | 0 | | | | |
| 12 | 4 | RED | 0 | 0 | 0 | 0 | | | | |

Comm Ports [6.6]

| Channel | Port | Echo | Mode |
|---|---|---|---|
| Async 1 | SP1 | NONE | 0 |
| Async 2 | SP2 | NONE | 0 |
| Async 3 | SP8 | NONE | 0 |
| Async 4 | OFF | NONE | 0 |
| Sync 1 | SP5S | | |
| Sync 2 | OFF | | |
| TS2CVM | NONE | | |
| Opticom | NONE | | |
| GPS | NONE | | |

Unit Params [1.2.1]

| | | | |
|---|---|---|---|
| Screen Size | 8 | Metric | OFF |
| Startup Flash | 0 | Red Revert | 2 |
| MCE Timeout | 0 | Auto Ped Clear | OFF |
| Loc Fish Start | RSt | Display Time | 60 |
| Yellow < 3" | OFF | Tone Disable | ON |
| Allow Skip Yel | OFF | AudioPedTime | 0 |
| Start Red Tm | 6 | Phase Mode | STD8 |
| Startup Calls | UseProg | CNA FreeTime | 0 |
| TOD Dimming | OFF | Diamond Mode | 4Ph |
| ST over Prmpt | OFF | Free Ring Seq | 1 |
| Feature Profile | 1 | IO Mode | USER |
| Mx Seek TrkTm | 0 | Max Cyc Timer | 0 |
| Mx Seek Dwell | 0 | CycFlt Actn | ALARM |
| Prmpt/Ext Coor | EXT | Clrnc Decide | OFF |
| Aux Switch | STOPTM | LPAlt Srs | 3-6 |
| *InhFYA Red St | OFF | Security Delay | 0 |
| RingA1go | 0 | | |

* - 76.12B or newer

Times+ [1.1.7]

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Walk2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BikeClr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GrnFlash | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SfClrMn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SfClrNoFlsh | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| NoPed Reserv | | | | | | | | |

Comm [6.2]

| Port | Baud Rate | FCM |
|---|---|---|
| 1 | 38400 | 6 |
| 2 | 9600 | 6 |
| 3 | 9600 | 6 |
| 4 | 9600 | 6 |

Comm [6.5]

| | | | | | Host IPs | | | |
|---|---|---|---|---|---|---|---|---|
| IP Address: | 10 | 53 | 25 | 131 | ATMS | | | |
| Mask: | 255 | 255 | 255 | 0 | 10 | 50 | 10 | 22 |
| Gateway: | 10 | 53 | 25 | 1 | SG | | | |
| Port #: | 5125 | | | | 0 | 0 | 0 | 0 |

City of FRESNO

Phase Seq. (2 ring) Chart [1.2.4]

| Seq # | Ring | Phases | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 2 | 3 | 4 | 0 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 | 0 |
| 2 | 1 | 1 | 2 | 3 | 4 | 0 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 | 0 |
| 3 | 1 | 2 | 1 | 3 | 4 | 0 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 | 0 |
| 4 | 1 | 2 | 1 | 3 | 4 | 0 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 | 0 |
| 5 | 1 | 1 | 2 | 3 | 4 | 0 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 | 0 |
| 6 | 1 | 1 | 2 | 3 | 4 | 0 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 | 0 |
| 7 | 1 | 2 | 1 | 3 | 4 | 0 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 | 0 |
| 8 | 1 | 2 | 1 | 3 | 4 | 0 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 | 0 |
| 9 | 1 | 1 | 2 | 4 | 3 | 0 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 | 0 |
| 10 | 1 | 1 | 2 | 4 | 3 | 0 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 | 0 |
| 11 | 1 | 2 | 1 | 4 | 3 | 0 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 | 0 |
| 12 | 1 | 2 | 1 | 4 | 3 | 0 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 | 0 |
| 13 | 1 | 1 | 2 | 4 | 3 | 0 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 | 0 |
| 14 | 1 | 1 | 2 | 4 | 3 | 0 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 | 0 |
| 15 | 1 | 2 | 1 | 4 | 3 | 0 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 | 0 |
| 16 | 1 | 2 | 1 | 4 | 3 | 0 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 | 0 |

Advance Warning [1.1.9]

| | Ph | Tm |
|---|---|---|
| Aux Out #1 | 0 | 0 |
| Aux Out #2 | 0 | 0 |

**NAME:** Perrin & Willow **ID:** 284 **Configuration:** Standard File

V76.12/13
Updated 12/6/17

| | | | |
|---|---|---|---|
| Prepared by: | CS | Date Installed / By: | |
| Checked by: | CS | Date Superseded: | |

Date Printed: 3/18/20

## [2.1] Coord Modes+

| | |
|---|---|
| Test OpMode | 0 |
| Correction | SHRT/LNG |
| Maximum | MAX INH |
| Force Mode | FIXED |
| Flash Mode | CHANNEL |

**Coord Modes+ (Page 2)**

| | |
|---|---|
| FreeonSeqCh | ON |
| Closed Loop | OFF |
| External | OFF |
| Latch Sec Frc | OFF |
| Stop-in-Walk | OFF |
| Ped Recycle | P1256_INH |
| Expand Split | OFF |
| Easy Float | OFF |
| Auto Reset | ON |
| NTCIP Yield | + 0 |

**Leave Walk**

| | |
|---|---|
| Before | TIMED |
| After | TIMED |

Intersection Name: Perrin & Willow

ID: 284

City of FRESNO

Date Printed: 3/18/2020

## [2.4] Patterns

| Pat# | Cyc | Off | Split | Seq |
|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 1 |
| 2 | 0 | 0 | 2 | 1 |
| 3 | 0 | 0 | 3 | 1 |
| 4 | 0 | 0 | 4 | 1 |
| 5 | 0 | 0 | 5 | 1 |
| 6 | 0 | 0 | 6 | 1 |
| 7 | 0 | 0 | 7 | 1 |
| 8 | 0 | 0 | 8 | 1 |
| 9 | 0 | 0 | 9 | 1 |
| 10 | 0 | 0 | 10 | 1 |
| 11 | 0 | 0 | 0 | 1 |
| 12 | 0 | 0 | 0 | 1 |
| 13 | 0 | 0 | 0 | 1 |

## [2.7.1-24] Splits

| Split | [2.7] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 2 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 3 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 4 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 5 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 6 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 7 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 8 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 9 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 10 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 11 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 12 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 13 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |

## [2.5] Transition

| Pat# | Short | Long | Dwell | No Shortway Ø | | | | E-Yld | Offset | Ret Hold | Flt | Min Veh | Min Ped | MI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 2 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 3 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 4 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 5 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 6 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 7 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 8 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 9 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | OFF |
| 10 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | OFF |
| 11 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 12 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 13 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |

PAGE 2

## [2.1] Coord Modes+

| | |
|---|---|
| Test OpMode | 0 |
| Correction | SHRT/LNG |
| Maximum | MAX INH |
| Force Mode | FIXED |
| Flash Mode | CHANNEL |

Coord Modes+ (Page 2)

| | |
|---|---|
| FreeonSeqCh | ON |
| Closed Loop | OFF |
| External | OFF |
| Latch Sec Frc | OFF |
| Stop-in-Walk | OFF |
| Ped Recycle | P1256_INH |
| Expand Split | OFF |
| Easy Float | OFF |
| Auto Reset | ON |
| NTCIP Yield | + 0 |

Leave Walk

| | |
|---|---|
| Before | TIMED |
| After | TIMED |

Intersection Name: Perrin & Willow

ID: 284

Date Printed: 3/18/2020

## [2.4] Patterns

| Pat# | Cyc | Off | Split | Seq |
|---|---|---|---|---|
| 20 | 0 | 0 | 0 | 1 |
| 21 | 0 | 0 | 0 | 1 |
| 22 | 0 | 0 | 0 | 1 |
| 23 | 0 | 0 | 0 | 1 |
| 24 | 0 | 0 | 0 | 1 |
| 25 | 0 | 0 | 0 | 1 |
| 26 | 0 | 0 | 0 | 1 |
| 27 | 0 | 0 | 0 | 1 |
| 28 | 0 | 0 | 0 | 1 |
| 29 | 0 | 0 | 0 | 1 |
| 30 | 0 | 0 | 0 | 1 |
| 31 | 0 | 0 | 0 | 1 |
| 32 | 0 | 0 | 0 | 1 |

## [2.7.1-24] Splits

| Split | [2.7] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 21 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 22 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 23 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 24 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 25 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 26 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 27 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 28 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 29 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 30 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 31 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 32 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |

## [2.5] Transition

| Pat# | Short | Long | Dwell | No Shortway Ø | E-Yld | Offset | Ret Hold | Flt | Min Veh | Min Ped | MI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 21 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 22 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 23 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 24 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 25 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 26 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 27 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 28 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 29 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 30 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 31 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |
| 32 | | 17 | 0 | 0 0 0 0 | 0 | BegGRN | - | - | - | - | OFF |

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## [2.7.X.3] TSP Split Table

| Pat# | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 2 | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 2 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 3 | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 3 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 4 | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 4 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 5 | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 5 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |

## [2.9.2.(1-8)] Strategy Tables

**STRATEGY_1**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_2**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_3**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_4**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_5**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_6**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_7**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_8**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

| | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0 | 0 | 6 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 9 - FREE | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 9 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |

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## Overlap 1-8 Program Parms & Parm+ [1.5.2.1] [1.5.2.8]

| | | | | |
|---|---|---|---|---|
| 1 | Included Ø | | NORMAL | |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| A | Conflict Olap | | Red | 1 |
| | Conflict Ped | | | |
| 2 | Included Ø | | NORMAL | |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| B | Conflict Olap | | Red | 1 |
| | Conflict Ped | | | |
| 3 | Included Ø | | NORMAL | |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| C | Conflict Olap | | Red | 1 |
| | Conflict Ped | | | |
| 4 | Included Ø | | NORMAL | |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| D | Conflict Olap | | Red | 1 |
| | Conflict Ped | | | |
| 5 | Included Ø | | NORMAL | |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| E | Conflict Olap | | Red | 1 |
| | Conflict Ped | | | |
| 6 | Included Ø | | NORMAL | |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| F | Conflict Olap | | Red | 1 |
| | Conflict Ped | | | |
| 7 | Included Ø | | NORMAL | |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| G | Conflict Olap | | Red | 1 |
| | Conflict Ped | | | |
| 8 | Included Ø | | NORMAL | |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| H | Conflict Olap | | Red | 1 |
| | Conflict Ped | | | |

## OLP GENERAL PARAMETERS [1.5.1]

| | |
|---|---|
| Lock Inhibit | OFF |
| Conflict Lock Enable | OFF |
| Parent P Clearance | ON |
| Xtra Incl Phases | OFF |
| InhibitLockInterval | Always |

## Channel Parameters [1.8.3]

| | |
|---|---|
| Pre Invert Rail Input | OFF |

## Preemption Options+ [3.Pre #.6]

| Pre # | Enable | Type | Output | Pattern | Skip | Co+Pre | Flash | Max/Min |
|---|---|---|---|---|---|---|---|---|
| 1 | OFF | RAIL | TS2 | | OFF | OFF | OFF | MAX |
| 2 | OFF | RAIL | TS2 | | OFF | OFF | OFF | MAX |
| 3 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 4 | OFF | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 5 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 6 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |

## Preemption Times [3.#.1]

| Pre # | Delay | MinDura | MaxPres | MinGrn | MinWlk | PedClr | Track Grn | Min Dwell |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | 10 | 60 | 6 | | 28 | | 10 |
| 4 | | 10 | 60 | 6 | | 28 | | 10 |
| 5 | | 10 | 60 | 6 | | 28 | | 10 |
| 6 | | 10 | 60 | 6 | | 28 | | 10 |

## Preemption, Options [3.#.3]

| Pre # | Lock Input | Over-ride Auto Flash | Over-ride Higher Preempt | Flash Dwell | Link |
|---|---|---|---|---|---|
| 1 | OFF | OFF | OFF | ON | |
| 2 | OFF | OFF | OFF | OFF | |
| 3 | OFF | OFF | OFF | OFF | |
| 4 | OFF | OFF | OFF | OFF | |
| 5 | OFF | OFF | OFF | OFF | |
| 6 | OFF | OFF | OFF | OFF | |

## Preemption, Times+ [3.#.4]

| Pre No. | Extend Dwell | Return Max | Ped Clr | Yel | Red |
|---|---|---|---|---|---|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | 20 | 10 | 3.9 | 2 |
| 4 | | 20 | 10 | 3.9 | 2 |
| 5 | | 20 | 10 | 3.9 | 2 |
| 6 | | 20 | 10 | 3.9 | 2 |

Pre 1 = RR1
Pre 2 = RR2
Pre 3 = EVA
Pre 4 = EVB
Pre 5 = EVC
Pre 6 = EVD

## Phases [3.#.2] - set the Dwell Phases

| Pre # | Column | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Dwell Veh | | | | | | | | | | |
| | Peds | | | | | | | | | | |
| 2 | Dwell Veh | | | | | | | | | | |
| | Peds | | | | | | | | | | |
| 3 | Dwell Veh | 2 | 5 | | | | | | | | |
| | Peds | | | | | | | | | | |
| 4 | Dwell Veh | | | | | | | | | | |
| | Peds | | | | | | | | | | |
| 5 | Dwell Veh | 6 | 1 | | | | | | | | |
| | Peds | | | | | | | | | | |
| 6 | Dwell Veh | 8 | | | | | | | | | |
| | Peds | | | | | | | | | | |

## Phases [3.#.2] - Trk Veh

| Pre # | Phases |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

## Exit Phases [3.#.2]

| No. | Exit Phase | | | |
|---|---|---|---|---|
| 1 | | | | |
| 2 | | | | |
| 3 | 2 | 5 | | |
| 4 | | | | |
| 5 | 1 | 6 | | |
| 6 | 8 | | | |

## Overlaps+ [3.#.5]

| Pre # | | Preempt Overlaps + |
|---|---|---|
| 1 | Track | |
| | Dwell | |
| 2 | Track | |
| | Dwell | |
| 3 | Track | |
| | Dwell | |
| 4 | Track | |
| | Dwell | |
| 5 | Track | |
| | Dwell | |
| 6 | Track | |
| | Dwell | |

## Prog Parms+ (MM>1>5>2>X>3)

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

## OverlapB+: 1-A

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

## OverlapB+: 2-B

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

## OverlapB+: 3-C

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

## OverlapB+: 4-D

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

City of FRESNO

ID: 284 Name: Perrin & Willow

Date Printed: 3/18/2020

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# CHANNEL SETTINGS [1.8] plus UNIT PARAMETERS [1.2.1]

## CHANNEL SETTINGS [1.8.1]

| Channel | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase / Olap # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 2 | 4 | 6 | 8 |
| Channel Type | VEH | VEH | VEH | VEH | VEH | VEH | VEH | VEH | OLP | OLP | OLP | OLP | PED | PED | PED | PED |
| Channel Flash | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | DRK | DRK | DRK | DRK |
| Flash 1-2 Hertz | | X | | X | | X | | X | | | | | | | | |
| | Page 1 | | | | | | | | Page 2 | | | | | | | |

## Chan Settings [1.8.2]

| Channel | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|
| Phase / Olap # | | | | | | | | |
| Channel Type | VEH | VEH | VEH | VEH | VEH | VEH | VEH | VEH |
| Channel Flash | DRK | DRK | DRK | DRK | DRK | DRK | DRK | DRK |

## CHANNEL PARMETERS [1.8.3]

| | |
|---|---|
| CH 17-24 Mapping: | DEFAULT |
| D-Conn Mapping: | NONE |
| Invert Rail Inputs: | OFF |
| C1-C11-ABC IO Mode: | USER |

## IO PARAMETERS [1.8.6]

| | |
|---|---|
| C1-C11-ABC IO Mode: | USER |
| D-Conn Mapping: | NONE |
| T & F BIU Mapping | DEFAULT |
| Invert Rail Inputs: | OFF |
| EVP Ped Confirm | OFF |

## CHANNELS+ [1.8.4]

| Channel | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flash Green | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Flash Red | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Flash Yellow | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Inh Red Fl in Preempt | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Olap Ovrd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Override Type | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**ID:** 284 **NAME:** Perrin & Willow

## I/O LOGIC [1.8.7]

**Prt Date:** 3/18/2020

| Row# | Result I/O | Result Fcn | = | Operand_1 Inv | Op_1 Src | Op_1 I/0 | Op_1 Fun | Op_1 Logic Func | Operand_2 Inv | Op_2 Src | Op_2 I/0 | Op_2 Fun | Op_2 Logic Func | Operand_3 Inv | Op_3 Src | Op_3 I/0 | Op_3 Fun | Op_3 Logic Func | Timer Dly | Timer Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 2 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 3 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 4 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 5 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 6 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 7 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 8 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 9 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 10 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |

## Ped Parms (MM>5>4)

| Det# | Call | No Act | Max Pres | Err Cnt |
|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 |
| 2 | 2 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 |
| 4 | 4 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 |
| 6 | 6 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 |
| 8 | 8 | 0 | 0 | 0 |

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| Veh Par 1-32 [5.1] | | | | | | | | | | | Vehicle Options 1-32 [5.2] | | | | | | | | | Parameters+ 1-32 [5.3] | | | | | | | | Info Only | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Det # | Input Slot | Call Ø | Swi Ø | Dlay | Ext | Que | No Act | Max Pres | Err Cnt | Fail Time | Det # | Call | Ext | Que | Add Init | Red Lock | Yell Lock | occ | vol | Det # | Occupancy G | Occupancy Y | Occupancy R | Delay 1 | Delay 2 | Type | Src | Dir | Det # |
| 1 | 1I1U | 1 | | | | | 0 | 0 | 0 | 255 | 1 | X | X | - | - | - | - | X | X | 1 | X | X | - | | | NORM | | NBL1 | 1 |
| 2 | 2I2U | 2 | | | | | 0 | 0 | 0 | 255 | 2 | - | X | - | - | - | - | X | X | 2 | X | X | - | | | NORM | | | 2 |
| 3 | 2I2L | 2 | | | 2 | | 0 | 0 | 0 | 255 | 3 | X | - | - | - | - | - | X | X | 3 | X | X | - | | | STOPB | | | 3 |
| 4 | 2I3U | 2 | | | 2 | | 0 | 0 | 0 | 255 | 4 | X | - | - | - | - | - | X | X | 4 | X | X | - | | | STOPB | | SBT3 | 4 |
| 5 | 2I3L | 2 | | | 2 | | 0 | 0 | 0 | 255 | 5 | X | - | - | - | - | - | X | X | 5 | X | X | - | | | STOPB | | SBR1 | 5 |
| 6 | 2I4U | 2 | | | 2 | | 0 | 0 | 0 | 255 | 6 | X | - | - | - | - | - | X | X | 6 | X | X | - | | | STOPB | | SBT1 | 6 |
| 7 | 3I5U | 8 | | | | | 0 | 0 | 0 | 255 | 7 | X | X | - | - | - | - | X | X | 7 | X | X | - | | | NORM | | EBL1 | 7 |
| 8 | 4I6U | 4 | | | | | 0 | 0 | 0 | 255 | 8 | - | X | - | - | - | - | X | X | 8 | X | X | - | | | NORM | | | 8 |
| 9 | 4I6L | 4 | | | 2 | | 0 | 0 | 0 | 255 | 9 | X | - | - | - | - | - | X | X | 9 | X | X | - | | | STOPB | | | 9 |
| 10 | 4I7U | 4 | | | 2 | | 0 | 0 | 0 | 255 | 10 | X | - | - | - | - | - | X | X | 10 | X | X | - | | | STOPB | | | 10 |
| 11 | 4I7L | 4 | | 15 | 2 | | 0 | 0 | 0 | 255 | 11 | X | - | - | - | - | - | X | X | 11 | X | X | - | | | STOPB | | | 11 |
| 12 | 4I8U | 4 | | | 2 | | 0 | 0 | 0 | 255 | 12 | X | - | - | - | - | - | X | X | 12 | X | X | - | | | STOPB | | | 12 |
| 13 | 1I9U | 1 | | | | | 0 | 0 | 0 | 255 | 13 | X | X | - | - | - | - | X | X | 13 | X | X | - | | | NORM | | | 13 |
| 14 | 3I9L | 8 | | | | | 0 | 0 | 0 | 255 | 14 | X | X | - | - | - | - | X | X | 14 | X | X | - | | | NORM | | | 14 |
| 15 | 5J1U | 5 | | | | | 0 | 0 | 0 | 255 | 15 | X | X | - | - | - | - | X | X | 15 | X | X | - | | | NORM | | SBL1 | 15 |
| 16 | 6J2U | 6 | | | | | 0 | 0 | 0 | 255 | 16 | - | X | - | - | - | - | X | X | 16 | X | X | - | | | NORM | | | 16 |
| 17 | 6J2L | 6 | | | 2 | | 0 | 0 | 0 | 255 | 17 | X | - | - | - | - | - | X | X | 17 | X | X | - | | | STOPB | | | 17 |
| 18 | 6J3U | 6 | | | 2 | | 0 | 0 | 0 | 255 | 18 | X | - | - | - | - | - | X | X | 18 | X | X | - | | | STOPB | | NBT3 | 18 |
| 19 | 6J3L | 6 | | | 2 | | 0 | 0 | 0 | 255 | 19 | X | - | - | - | - | - | X | X | 19 | X | X | - | | | STOPB | | NBR1 | 19 |
| 20 | 6J4U | 6 | | | 2 | | 0 | 0 | 0 | 255 | 20 | X | - | - | - | - | - | X | X | 20 | X | X | - | | | STOPB | | NBT1 | 20 |
| 21 | 7J5U | 7 | | | | | 0 | 0 | 0 | 255 | 21 | X | X | - | - | - | - | X | X | 21 | X | X | - | | | NORM | | | 21 |
| 22 | 8J6U | 8 | | | | | 0 | 0 | 0 | 255 | 22 | - | X | - | - | - | - | X | X | 22 | X | X | - | | | NORM | | | 22 |
| 23 | 8J6L | 8 | | | 2 | | 0 | 0 | 0 | 255 | 23 | X | - | - | - | - | - | X | X | 23 | X | X | - | | | STOPB | | | 23 |
| 24 | 8J7U | 8 | | | 2 | | 0 | 0 | 0 | 255 | 24 | X | - | - | - | - | - | X | X | 24 | X | X | - | | | STOPB | | | 24 |
| 25 | 8J7L | 8 | | 15 | 2 | | 0 | 0 | 0 | 255 | 25 | X | - | - | - | - | - | X | X | 25 | X | X | - | | | STOPB | | EBR1 | 25 |
| 26 | 8J8U | 8 | | | 2 | | 0 | 0 | 0 | 255 | 26 | X | - | - | - | - | - | X | X | 26 | X | X | - | | | STOPB | | EBT1 | 26 |
| 27 | 5J9U | 5 | | | | | 0 | 0 | 0 | 255 | 27 | X | X | - | - | - | - | X | X | 27 | X | X | - | | | NORM | | | 27 |
| 28 | 7J9L | 7 | | | | | 0 | 0 | 0 | 255 | 28 | X | X | - | - | - | - | X | X | 28 | X | X | - | | | NORM | | | 28 |
| 29 | 2I11U | 2 | | | 2 | | 0 | 0 | 0 | 255 | 29 | X | - | - | - | - | - | X | X | 29 | X | X | - | | | STOPB | | | 29 |
| 30 | 4I11L | 4 | | 15 | 2 | | 0 | 0 | 0 | 255 | 30 | X | - | - | - | - | - | X | X | 30 | X | X | - | | | STOPB | | | 30 |
| 31 | 6J11U | 6 | | | 2 | | 0 | 0 | 0 | 255 | 31 | X | - | - | - | - | - | X | X | 31 | X | X | - | | | STOPB | | | 31 |
| 32 | 8J11L | 8 | | 15 | 2 | | 0 | 0 | 0 | 255 | 32 | X | - | - | - | - | - | X | X | 32 | X | X | - | | | STOPB | | | 32 |
| 33 | 1I1L | 1 | | | | | 0 | 0 | 0 | 255 | 33 | X | X | - | - | - | - | X | X | 33 | X | X | - | | | NORM | | NBL2 | 33 |
| 34 | 2I4L | 2 | | | 2 | | 0 | 0 | 0 | 255 | 34 | X | - | - | - | - | - | X | X | 34 | X | X | - | | | STOPB | | SBT2 | 34 |
| 35 | 3I5L | 8 | | | | | 0 | 0 | 0 | 255 | 35 | X | X | - | - | - | - | X | X | 35 | X | X | - | | | NORM | | EBL2 | 35 |
| 36 | 4I8L | 4 | | | 2 | | 0 | 0 | 0 | 255 | 36 | X | - | - | - | - | - | X | X | 36 | X | X | - | | | STOPB | | | 36 |
| 37 | 5J1L | 5 | | | | | 0 | 0 | 0 | 255 | 37 | X | X | - | - | - | - | X | X | 37 | X | X | - | | | NORM | | SBL2 | 37 |
| 38 | 6J4L | 6 | | | 2 | | 0 | 0 | 0 | 255 | 38 | X | - | - | - | - | - | X | X | 38 | X | X | - | | | STOPB | | NBT2 | 38 |
| 39 | 7J5L | 7 | | | | | 0 | 0 | 0 | 255 | 39 | X | X | - | - | - | - | X | X | 39 | X | X | - | | | NORM | | | 39 |
| 40 | 8J8L | 8 | | | 2 | | 0 | 0 | 0 | 255 | 40 | X | - | - | - | - | - | X | X | 40 | X | X | - | | | STOPB | | | 40 |
| 41 | 4I10U | 2 | | | | | 0 | 0 | 0 | 255 | 41 | - | X | - | - | - | - | X | X | 41 | X | X | - | | | NORM | | | 41 |
| 42 | 4I10L | 2 | | | | | 0 | 0 | 0 | 255 | 42 | - | X | - | - | - | - | X | X | 42 | X | X | - | | | NORM | | | 42 |
| 43 | 8J10U | 6 | | | | | 0 | 0 | 0 | 255 | 43 | - | X | - | - | - | - | X | X | 43 | X | X | - | | | NORM | | | 43 |
| 44 | 8J10L | 6 | | | | | 0 | 0 | 0 | 255 | 44 | - | X | - | - | - | - | X | X | 44 | X | X | - | | | NORM | | | 44 |

ID: 284 Name: Perrin & Willow

Vol/Occ Period: 0 Seconds, 5 Minutes

3/18/2020

**Alt# 1 Times Table [1.1.6.1]**

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

**Alt# 2 Times Table [1.1.6.1]**

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

**Alt# 3 Times Table [1.1.6.1]**

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

**Alt# 1 Options Table [1.1.6.2]**

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Entry | - | - | - | - | - | - | - | - |
| Enabl SimGap | - | - | - | - | - | - | - | - |
| Guar Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |
| | | | | | | | | |

**Alt# 2 Options Table [1.1.6.2]**

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Enrty | - | - | - | - | - | - | - | - |
| Enabl SimGap | - | - | - | - | - | - | - | - |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |
| | | | | | | | | |

**Alt# 3 Options Table [1.1.6.2]**

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Enrty | - | - | - | - | - | - | - | - |
| Enabl SimGap | - | - | - | - | - | - | - | - |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |
| | | | | | | | | |

**Alt# 4 Options Table [1.1.6.2]**

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Entry | - | - | - | - | - | - | - | - |
| Enabl SimGap | - | - | - | - | - | - | - | - |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |
| | | | | | | | | |

**Alternate Tables [2.6]**

| Pat# | POpt | PTime | DetGrp | Call/Inh | Olp Off 1 2 3 4 5 6 7 8 | ASC | CNA1 | Max2 | Dia |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | 0 | Off | | DFT |
| 2 | | | | | | 0 | Off | | DFT |
| 3 | | | | | | 0 | Off | | DFT |
| 4 | | | | | | 0 | Off | | DFT |
| 5 | | | | | | 0 | Off | | DFT |
| 6 | | | | | | 0 | Off | | DFT |
| 7 | | | | | | 0 | Off | | DFT |
| 8 | | | | | | 0 | Off | | DFT |
| 9 | | | | | | 0 | Off | | DFT |
| 10 | | | | | | 0 | Off | | DFT |
| 11 | | | | | | 0 | Off | | DFT |
| 12 | | | | | | 0 | Off | | DFT |
| 13 | | | | | | 0 | Off | | DFT |
| 14 | | | | | | 0 | Off | | DFT |
| 15 | | | | | | 0 | Off | | DFT |
| 16 | | | | | | 0 | Off | | DFT |
| 17 | | | | | | 0 | Off | | DFT |
| 18 | | | | | | 0 | Off | | DFT |
| 19 | | | | | | 0 | Off | | DFT |
| 20 | | | | | | 0 | Off | | DFT |
| 21 | | | | | | 0 | Off | | DFT |
| 22 | | | | | | 0 | Off | | DFT |
| 23 | | | | | | 0 | Off | | DFT |
| 24 | | | | | | 0 | Off | | DFT |

**Time Base Parameters [4.6]**

| | | |
|---|---|---|
| Daylight Savings Time | ENABLE | |
| Time Base Sync Ref | 0 | |
| GMT Offset | - | 8 |
| Daylight Savings | Mon | Week |
| Spring | 3 | 2 |
| Fall | 11 | 1 |

**NOTE:** % and MI parameters are not used and are not shown above.

City of FRESNO

**NAME:** Perrin & Willow

3/18/2020 **ID:** 284

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| Annual Schedule [4.3] | Month | Day of Week | Date | Day Plan |
|---|---|---|---|---|
| 1 | J F M A M J J A S O N D<br>X X X X X X X X X X X X | S M T W T F S<br>X X X X X | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X | 1 |
| 2 | J F M A M J J A S O N D<br>X X X X X X X X X X X | S M T W T F S<br>X | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X | 2 |
| 3 | J F M A M J J A S O N D<br>X X X X X X X X X X X X | S M T W T F S<br>X | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X | 3 |
| 4 | J F M A M J J A S O N D<br>X | S M T W T F S<br>X | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>- - - - - - - - - - - - - - - - - - - - X X X X X X - - - | 4 |
| 5 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 1 |
| 6 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 1 |
| 7 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 1 |
| 8 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 1 |
| 9 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 1 |
| 10 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 1 |
| 11 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 1 |
| 12 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 1 |
| 13 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 1 |
| 14 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 1 |
| 15 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 1 |
| 16 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 1 |
| 17 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 1 |
| 18 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 1 |

NAME: Perrin & Willow

ID No. 284

## DAY PLANS [4.4]

| Plan 1 | | | | Plan 2 | | | | Plan 3 | | | | Plan 4 | | | | Plan 5 | | | | Plan 6 | | | | Plan 7 | | | | Plan 8 | | | | Plan 9 | | | | Plan 10 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act |
| 1 | | 1 | 54 | 1 | | 1 | 54 | 1 | | 1 | 54 | 1 | 0 | 1 | 54 | 1 | | | | 1 | | | | 1 | | | | 1 | | | | 1 | | | | 1 | | | |
| 2 | | | | 2 | | | | 2 | | | | 2 | 0 | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | |
| 3 | | | | 3 | | | | 3 | | | | 3 | 0 | | | 3 | | | | 3 | | | | 3 | | | | 3 | | | | 3 | | | | 3 | | | |
| 4 | | | | 4 | | | | 4 | | | | 4 | 0 | | | 4 | | | | 4 | | | | 4 | | | | 4 | | | | 4 | | | | 4 | | | |
| 5 | | | | 5 | | | | 5 | | | | 5 | 0 | | | 5 | | | | 5 | | | | 5 | | | | 5 | | | | 5 | | | | 5 | | | |
| 6 | | | | 6 | | | | 6 | | | | 6 | 0 | | | 6 | | | | 6 | | | | 6 | | | | 6 | | | | 6 | | | | 6 | | | |
| 7 | | | | 7 | | | | 7 | | | | 7 | 0 | | | 7 | | | | 7 | | | | 7 | | | | 7 | | | | 7 | | | | 7 | | | |
| 8 | | | | 8 | | | | 8 | | | | 8 | 0 | | | 8 | | | | 8 | | | | 8 | | | | 8 | | | | 8 | | | | 8 | | | |
| 9 | | | | 9 | | | | 9 | | | | 9 | 0 | | | 9 | | | | 9 | | | | 9 | | | | 9 | | | | 9 | | | | 9 | | | |
| 10 | | | | 10 | | | | 10 | | | | 10 | 0 | | | 10 | | | | 10 | | | | 10 | | | | 10 | | | | 10 | | | | 10 | | | |

| # | Alarm | Ev | Alr |
|---|---|---|---|
| 1 | Power Up Alarm. | X | X |
| 2 | Stop Timing | X | X |
| 3 | Cabinet Door Activation | - | - |
| 4 | Coordination Failure | X | X |
| 5 | External Alarm # 1 | - | - |
| 6 | External Alarm # 2 | - | - |
| 7 | External Alarm # 3 | - | - |
| 8 | External Alarm # 4 | - | - |
| 9 | Closed Loop Disabled | - | - |
| 10 | External Alarm # 5 | - | - |
| 11 | External Alarm # 6 | - | - |
| 12 | Manual Control Enable | X | X |
| 13 | Coord Free Input | - | - |
| 14 | Local Flash Input | X | X |
| 15 | CMU/MMU Flash Input | - | - |
| 16 | MMU Fault | X | X |
| 17 | Cycle Fault | X | - |
| 18 | Cycle Failure | X | - |
| 19 | Coordination Fault | X | X |
| 20 | Controller Fault | X | X |
| 25 | EEPROM CRC Fault | X | X |
| 30 | Coord Diagnostic Fault | X | X |
| 37 | Download Request | X | X |
| 38 | Pattern Change | - | - |
| 49 | Preempt 1 Input | X | X |
| 50 | Preempt 2 Input | X | X |
| 51 | Preempt 3 Input | X | X |
| 52 | Preempt 4 Input | X | X |
| 53 | Preempt 5 Input | X | X |
| 54 | Preempt 6 Input | X | X |
| 55 | Preempt 7 Input | - | - |
| 56 | Preempt 8 Input | - | - |
| 57 | Preempt 9 Input | - | - |
| 58 | Preempt 10 Input | - | - |
| 59 | EEPROM Compare Fault | X | X |
| 60 | Coordination Failure | X | X |
| 63 | TSP Active Trigger | - | - |
| 73 | Controller Access | X | X |
| 81 | FIO Changed Status | X | X |

**#1 Bus Preempt**

| | | Times | | Prior. Phases | | | | |
|---|---|---|---|---|---|---|---|---|
| Enable | OFF | Min | 0 | 0 | 0 | 0 | 0 | |
| Coor+Pre | OFF | Max | 0 | ---TSP--- | | | | |
| Lock Mode | MAX | Lock | 0 | Headway | 0 | | | |
| No Skip | OFF | Alt Table | 0 | GrpLock | OFF | | | |
| Qjump | OFF | HoldDwell | #N/A | FreeMod | OFF | | | |

**#2 Bus Preempt**

| | | Times | | Prior. Phases | | | | |
|---|---|---|---|---|---|---|---|---|
| Enable | OFF | Min | 0 | 0 | 0 | 0 | 0 | |
| Coor+Pre | OFF | Max | 0 | ---TSP--- | | | | |
| Lock Mode | MAX | Lock | 0 | Headway | 0 | | | |
| No Skip | OFF | Alt Table | 0 | GrpLock | OFF | | | |
| Qjump | OFF | HoldDwell | #N/A | FreeMod | OFF | | | |

**#3 Bus Preempt**

| | | Times | | Prior. Phases | | | | |
|---|---|---|---|---|---|---|---|---|
| Enable | OFF | Min | 0 | 0 | 0 | 0 | 0 | |
| Coor+Pre | OFF | Max | 0 | ---TSP--- | | | | |
| Lock Mode | MAX | Lock | 0 | Headway | 0 | | | |
| No Skip | OFF | Alt Table | 0 | GrpLock | OFF | | | |
| Qjump | OFF | HoldDwell | #N/A | FreeMod | OFF | | | |

**#4 Bus Preempt**

| | | Times | | Prior. Phases | | | | |
|---|---|---|---|---|---|---|---|---|
| Enable | OFF | Min | 0 | 0 | 0 | 0 | 0 | |
| Coor+Pre | OFF | Max | 0 | ---TSP--- | | | | |
| Lock Mode | MAX | Lock | 0 | Headway | 0 | | | |
| No Skip | OFF | Alt Table | 0 | GrpLock | OFF | | | |
| Qjump | OFF | HoldDwell | #N/A | FreeMod | OFF | | | |

**I/O INPUT TABLE**

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 16 | 8 | 22 | 3 | 17 | 9 | 23 |
| 2 | 6 | 20 | 12 | 26 | 198 | 199 | 30 | 31 |
| 3 | 15 | 1 | 21 | 7 | 27 | 13 | 28 | 14 |
| 4 | 189 | 189 | 189 | 189 | 4 | 18 | 10 | 24 |
| 5 | 130 | 134 | 132 | 136 | 200 | 201 | 202 | 203 |
| 6 | 32 | 5 | 19 | 11 | 25 | 29 | 208 | 207 |
| 7 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 8 | 41 | 42 | 43 | 44 | 189 | 189 | 189 | 189 |

**ACTION Table [4.5]**

| Act | Pat# | A1 | A2 | A3 | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | P1 | P2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 15 | 15 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 16 | 0 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 54 | 254 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 55 | 0 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |

**Alarm Parameters [1.6.7.1]**

| | |
|---|---|
| Pattern Events: | ON |
| Local Txmt Alarms: | OFF |
| Reassign User Alarm #1 In (5): | 0 |
| Reassign User Alarm #2 In (6): | 0 |
| Preempt Events: | ON |

City of FRESNO

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ID: 284 Name: Perrin & Willow

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## I/O Inputs - 1.8.9.1.5

| C-1 PIN | I/O Source | Function | Input Name |
|---|---|---|---|
| 39 | I1-1 | 2 | Veh Det 2 |
| 40 | I1-2 | 16 | Veh Det 16 |
| 41 | I1-3 | 8 | Veh Det 8 |
| 42 | I1-4 | 22 | Veh Det 22 |
| 43 | I1-5 | 3 | Veh Det 3 |
| 44 | I1-6 | 17 | Veh Det 17 |
| 45 | I1-7 | 9 | Veh Det 9 |
| 46 | I1-8 | 23 | Veh Det 23 |
| 47 | I2-1 | 6 | Veh Det 6 |
| 48 | I2-2 | 20 | Veh Det 20 |
| 49 | I2-3 | 12 | Veh Det 12 |
| 50 | I2-4 | 26 | Veh Det 26 |
| 51 | I2-5 | 198 | Pre 1 In |
| 52 | I2-6 | 199 | Pre 2 In |
| 53 | I2-7 | 30 | Veh Det 30 |
| 54 | I2-8 | 31 | Veh Det 31 |
| 55 | I3-1 | 15 | Veh Det 15 |
| 56 | I3-2 | 1 | Veh Det 1 |
| 57 | I3-3 | 21 | Veh Det 21 |
| 58 | I3-4 | 7 | Veh Det 7 |
| 59 | I3-5 | 27 | Veh Det 27 |
| 60 | I3-6 | 13 | Veh Det 13 |
| 61 | I3-7 | 28 | Veh Det 28 |
| 62 | I3-8 | 14 | Veh Det 14 |
| 63 | I4-5 | 4 | Veh Det 4 |
| 64 | I4-6 | 18 | Veh Det 18 |
| 65 | I4-7 | 10 | Veh Det 10 |
| 66 | I4-8 | 24 | Veh Det 24 |
| 67 | I5-1 | 130 | Ped Call 2 |
| 68 | I5-2 | 134 | Ped Call 6 |
| 69 | I5-3 | 132 | Ped Call 4 |
| 70 | I5-4 | 136 | Ped Call 8 |
| 71 | I5-5 | 200 | Pre 3 In |
| 72 | I5-6 | 201 | Pre 4 In |
| 73 | I5-7 | 202 | Pre 5 In |
| 74 | I5-8 | 203 | Pre 6 In |
| 75 | I6-1 | 32 | Veh Det 32 |
| 76 | I6-2 | 5 | Veh Det 5 |
| 77 | I6-3 | 19 | Veh Det 19 |
| 78 | I6-4 | 11 | Veh Det 11 |
| 79 | I6-5 | 25 | Veh Det 25 |
| 80 | I6-6 | 29 | Veh Det 29 |
| 81 | I6-7 | 208 | Local Flash |
| 82 | I6-8 | 207 | Comp StopTm |

## I/O OUTPUTS - 1.8.9.2.5

| C-1 PIN | I/O Source | Function | Output Name |
|---|---|---|---|
| 1 | Logic Grd | | |
| 2 | O1-1 | 14 | Red Ch 14 |
| 3 | O1-2 | 62 | Grn Chan 14 |
| 4 | O1-3 | 4 | Red Ch 4 |
| 5 | O1-4 | 28 | Yel Chan 4 |
| 6 | O1-5 | 52 | Grn Chan 4 |
| 7 | O1-6 | 3 | Red Ch 3 |
| 8 | O1-7 | 27 | Yel Chan 3 |
| 9 | O1-8 | 51 | Grn Chan 3 |
| 10 | O2-1 | 13 | Red Ch 13 |
| 11 | O2-2 | 61 | Grn Chan 13 |
| 12 | O2-3 | 2 | Red Ch 2 |
| 13 | O2-4 | 26 | Yel Chan 2 |
| 14 | Logic Grd | | |
| 15 | O2-5 | 50 | Grn Chan 2 |
| 16 | O2-6 | 1 | Red Ch 1 |
| 17 | O2-7 | 25 | Yel Chan 1 |
| 18 | O2-8 | 49 | Grn Chan 1 |
| 19 | O3-1 | 16 | Red Ch 16 |
| 20 | O3-2 | 64 | Grn Chan 16 |
| 21 | O3-3 | 8 | Red Ch 8 |
| 22 | O3-4 | 32 | Yel Chan 8 |
| 23 | O3-5 | 56 | Grn Chan 8 |
| 24 | O3-6 | 7 | Red Ch 7 |
| 25 | O3-7 | 31 | Yel Chan 7 |
| 26 | O3-8 | 55 | Grn Chan 7 |
| 27 | O4-1 | 15 | Red Ch 15 |
| 28 | O4-2 | 63 | Grn Chan 15 |
| 29 | O4-3 | 6 | Red Ch 6 |
| 30 | O4-4 | 30 | Yel Chan 6 |
| 31 | O4-5 | 54 | Grn Chan 6 |
| 32 | O4-6 | 5 | Red Ch 5 |
| 33 | O4-7 | 29 | Yel Chan 5 |
| 34 | O4-8 | 53 | Grn Chan 5 |
| 35 | O5-1 | 37 | Yel Chan 13 |
| 36 | O5-2 | 39 | Yel Chan 15 |
| 37 | O5-3 | 38 | Yel Chan 14 |
| 38 | O5-4 | 40 | Yel Chan 16 |
| 100 | O5-5 | 42 | Yel Chan 18 |
| 101 | O5-6 | 41 | Yel Chan 17 |
| 102 | O5-7 | 115 | Not Used |
| 103 | O5-8 | 114 | Watchdog |

| C-1 PIN | I/O Source | Function | Output Name |
|---|---|---|---|
| 83 | O6-1 | 18 | Red Ch 18 |
| 84 | O6-2 | 66 | Grn Chan 18 |
| 85 | O6-3 | 12 | Red Ch 12 |
| 86 | O6-4 | 36 | Yel Chan 12 |
| 87 | O6-5 | 60 | Grn Chan 12 |
| 88 | O6-6 | 11 | Red Ch 11 |
| 89 | O6-7 | 35 | Yel Chan 11 |
| 90 | O6-8 | 59 | Grn Chan 11 |
| 91 | O7-1 | 17 | Red Ch 17 |
| 92 | Logic Grd | | |
| 93 | O7-2 | 65 | Grn Chan 17 |
| 94 | O7-3 | 10 | Red Ch 10 |
| 95 | O7-4 | 34 | Yel Chan 10 |
| 96 | O7-5 | 58 | Grn Chan 10 |
| 97 | O7-6 | 9 | Red Ch 9 |
| 98 | O7-7 | 33 | Yel Chan 9 |
| 99 | O7-8 | 57 | Grn Chan 9 |

### I/O Outputs - 1.8.9.2.5
### C-11 OUTPUTS

| | | | |
|---|---|---|---|
| 1 | O8-1 | 115 | Not Used |
| 2 | O8-2 | 115 | Not Used |
| 3 | O8-3 | 115 | Not Used |
| 4 | O8-4 | 115 | Not Used |

### I/O Inputs - 1.8.9.1.5
### C-11 INPUTS

| | | | |
|---|---|---|---|
| 15 | I7-1 | 33 | Veh Det 33 |
| 16 | I7-2 | 34 | Veh Det 34 |
| 17 | I7-3 | 35 | Veh Det 35 |
| 18 | I7-4 | 36 | Veh Det 36 |
| 19 | I7-5 | 37 | Veh Det 37 |
| 20 | I7-6 | 38 | Veh Det 38 |
| 21 | I7-7 | 39 | Veh Det 39 |
| 22 | I7-8 | 40 | Veh Det 40 |
| 23 | I8-1 | 41 | Veh Det 41 |
| 24 | I8-2 | 42 | Veh Det 42 |
| 25 | I8-3 | 43 | Veh Det 43 |
| 26 | I8-4 | 44 | Veh Det 44 |
| 27 | I8-5 | 189 | Unused |
| 28 | I8-6 | 189 | Unused |
| 29 | I8-7 | 189 | Unused |
| 30 | I8-8 | 189 | Unused |

City of FRESNO

ID: 284

NAME: Perrin & Willow

Date Printed: 3/18/2020

ID Number: 284

LOCATION: Perrin & Willow

# City of Fresno
# 332 Cabinet
# 44 Detector Plus Setup

## DETECTOR ASSIGNMENTS

| | I1 | I2 | I3 | I4 | I5 | I6 | I7 | I8 | I9 | I10 | I11 | ISOLATORS I12 | I13 | I14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| "I" | | | | | | | | | | | | | | |
| UPPER | Ph 1<br>Call&Ext<br>T2-1&2<br>C1-56<br>Det 1<br>NBL1 | Ph 2<br>Ext<br>T2-5&6<br>C1-39<br>Det 2<br>SB Far | Ph 2<br>Call&TP3<br>T2-9&10<br>C1-63<br>Det 4<br>SB Mid | Ph 2<br>Call&TP3<br>T4-1&2<br>C1-47<br>Det 6<br>SBT1 | Ph 3<br>Call&Ext<br>T4-5&6<br>C1-58<br>Det 7<br>EBL1 | Ph 4<br>Ext<br>T4-9&10<br>C1-41<br>Det 8<br>WB Far | Ph 4<br>Call&TP3<br>T6-1&2<br>C1-65<br>Det 10<br>WB Mid | Ph 4<br>Call&TP3<br>T6-5&6<br>C1-49<br>Det 12<br>WBT1 | Ph 1<br>Call&Ext<br>T6-9&10<br>C1-60<br>Det 13<br>NBLt Bk | Ph 2/4<br>Ext<br>T10-5&6<br>C11-23<br>Det 41 | Ph 2<br>Call&Ext<br>T8-1<br>C1-80<br>Det 29<br>BIKE | Ph 2<br>PPB<br>T8-4<br>C1-67 | Ph 6<br>PPB<br>T8-7<br>C1-68 | FLASH<br>SENSE<br>T8-10<br>C1-81 |
| LOWER | Ph 1<br>Call&Ext<br>T2-3&4<br>C11-15<br>Det 33<br>NBL2 | Ph 2<br>Call&TP3<br>T2-7&8<br>C1-43<br>Det 3<br>SB Bk | Ph 2<br>Call&Ext<br>T2-11&12<br>C1-76<br>Det 5<br>SBRt | Ph 2<br>Call&TP3<br>T4-3&4<br>C11-16<br>Det 34<br>SBT2 | Ph 3<br>Call&Ext<br>T4-7&8<br>C11-17<br>Det 35<br>EBL2 | Ph 4<br>Call&TP3<br>T4-11&12<br>C1-45<br>Det 9<br>WB Bk | Ph 4<br>Call&Ext<br>T6-3&4<br>C1-78<br>Det 11<br>WBRt | Ph 4<br>Call&TP3<br>T6-7&8<br>C11-18<br>Det 36<br>WBT2 | Ph 3<br>Call&Ext<br>T6-11&12<br>C1-62<br>Det 14<br>EBLt Bk | Ph 2/4<br>Ext<br>T10-7&8<br>C11-24<br>Det 42 | Ph 4<br>Call&Ext<br>T8-2<br>C1-53<br>Det 30<br>BIKE | Ph 4<br>PPB<br>T8-5<br>C1-69 | Ph 8<br>PPB<br>T8-8<br>C1-70 | STOP<br>TIMING<br>T8-11<br>C1-82 |
| "J" | J1 | J2 | J3 | J4 | J5 | J6 | J7 | J8 | J9 | J10 | J11 | J12 | J13 | J14 |
| UPPER | Ph 5<br>Call&Ext<br>T3-1&2<br>C1-55<br>Det 15<br>SBL1 | Ph 6<br>Ext<br>T3-5&6<br>C1-40<br>Det 16<br>NB Far | Ph 6<br>Call&TP3<br>T3-9&10<br>C1-64<br>Det 18<br>NB Mid | Ph 6<br>Call&TP3<br>T5-1&2<br>C1-48<br>Det 20<br>NBT1 | Ph 7<br>Call&Ext<br>T5-5&6<br>C1-57<br>Det 21<br>WBL1 | Ph 8<br>Ext<br>T5-9&10<br>C1-42<br>Det 22<br>EB Far | Ph 8<br>Call&TP3<br>T7-1&2<br>C1-66<br>Det 24<br>EB Mid | Ph 8<br>Call&TP3<br>T7-5&6<br>C1-50<br>Det 26<br>EBT1 | Ph 5<br>Call&Ext<br>T7-9&10<br>C1-59<br>Det 27<br>SBLt Bk | Ph 6/8<br>Ext<br>T10-9&10<br>C11-25<br>Det 43 | Ph 6<br>Call&Ext<br>T9-1<br>C1-54<br>Det 31<br>BIKE | EMER A<br>Ph 2 + 5<br>T9-4<br>C1-71 | EMER B<br>Ph 4 + 7<br>T9-5<br>C1-72 | RR1<br>FLASH<br>T9-10<br>C1-51 |
| LOWER | Ph 5<br>Call&Ext<br>T3-3&4<br>C11-19<br>Det 37<br>SBL2 | Ph 6<br>Call&TP3<br>T3-7&8<br>C1-44<br>Det 17<br>NB Bk | Ph 6<br>Call&Ext<br>T3-11&12<br>C1-77<br>Det 19<br>NBRt | Ph 6<br>Call&TP3<br>T5-3&4<br>C11-20<br>Det 38<br>NBT2 | Ph 7<br>Call&Ext<br>T5-7&8<br>C11-21<br>Det 39<br>WBL2 | Ph 8<br>Call&TP3<br>T5-11&12<br>C1-46<br>Det 23<br>EB Bk | Ph 8<br>Call&Ext<br>T7-3&4<br>C1-79<br>Det 25<br>EBRt | Ph 8<br>Call&TP3<br>T7-7&8<br>C11-22<br>Det 40<br>EBT2 | Ph 7<br>Call&Ext<br>T7-11&12<br>C1-61<br>Det 28<br>WBLt Bk | Ph 6/8<br>EXT<br>T10-11&12<br>C11-26<br>Det 44 | Ph 8<br>Call&Ext<br>T9-2<br>C1-75<br>Det 32<br>BIKE | EMER C<br>Ph 1 + 6<br>T9-7<br>C1-73 | EMER D<br>Ph 3 + 8<br>T9-8<br>C1-74 | RR2<br>LTD OP<br>T9-11<br>C1-52 |

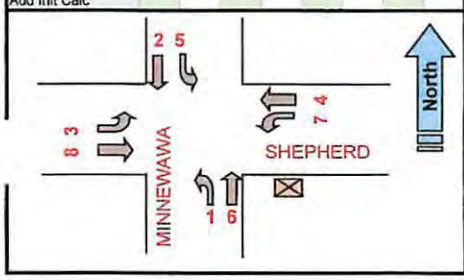
COMMENTS:

**TIMING UPDATES AND MODIFICATIONS**

**ID:** 284 **NAME:** Perrin & Willow

| DATE | CHANGES MADE | ATMS or CABINET | BY |
|---|---|---|---|
| 3/18/2020 | Reassign DET 14 from P3 to P8 | | CS |
| | | | |
| | | | |
| | | |

| Movement | NL | ST | EL | WT | SL | NT | WL | ET |
|---|---|---|---|---|---|---|---|---|
| Times [1.1.1] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Min Green | 11 | 8 | 11 | 9 | 11 | 8 | 11 | 9 |
| Gap, Ext | 2 | 4 | 2 | 4.4 | 2 | 3.2 | 2 | 4.2 |
| Max 1 | 25 | 40 | 25 | 40 | 25 | 40 | 25 | 40 |
| Max 2 | | | | | | | | |
| Yel Clearance | 3.0 | 5.0 | 3.0 | 5.0 | 3.0 | 5.0 | 3.0 | 5.0 |
| Red Clearance | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Walk | | 7 | | 7 | | 7 | | 7 |
| Ped Clearance | | 25 | | 23 | | 25 | | 25 |
| Red Revert | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Add Initial | | | | | | | | |
| Max Initial | | | | | | | | |
| Time B4 Reduct | | 19 | | 18 | | 19 | | 18 |
| Cars B4 Reduct | | | | | | | | |
| Time To Reduce | | 11 | | 12 | | 11 | | 12 |
| Reduce By | | | | | | | | |
| Min Gap | 2 | 2.5 | 2 | 2.8 | 2 | 2 | 2 | 2.6 |
| DyMaxLim | 31 | 46 | 31 | 46 | 31 | 46 | 31 | 46 |
| Max Step | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Options [1.1.2] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Enable | X | X | X | X | X | X | X | X |
| Min Recall | | | | | | | | |
| Max Recall | | | | | | | | |
| Ped Recall | | | | | | | | |
| Soft Recall | | | | X | | | | X |
| Lock Calls | | | | | | | | |
| Auto Flash Entry | | | | | | | | |
| Auto Flash Exit | | | | | | | | |
| Dual Entry | | X | | X | | X | | X |
| Enable Simul Gap | X | X | X | X | X | X | X | X |
| Gaurantee Passage | | | | | | | | |
| Rest In Walk | | | | | | | | |
| Conditon Service | | | | | | | | |
| Non-Actuated 1 | | | | | | | | |
| Non-Actuated 2 | | | | | | | | |
| Add Init Calc | | | | | | | | |




**Phase Options+ [1.1.3]**

| Options+ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Reservice | | | | | | | | |
| PedClr Thru Yel | | | | | | | | |
| SkipRed-NoCall | | | | | | | | |
| Red Rest | | | | | | | | |
| Max II | | | | | | | | |
| *Max III | | | | | | | | |
| Max Inhibit | | | | | | | | |
| Ped Delay | | | | | | | | |
| Red Rest on Gap | | | | | | | | |
| Conflicting Phase | | | | | | | | |
| Grn/Ped Delay | | | | | | | | |
| Omit Yel, Yel P | | | | | | | | |
| Ped Out/Olp Ped | | | | | | | | |
| StartYel, Next P | | | | | | | | |
| *StartupVehCall | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| *StartupPedCall | | | | | | | | |

**Phase Concurrency [1.1.4]**

| Phase | Ring | StartUp | Concurrent Phases | | | |
|---|---|---|---|---|---|---|
| 1 | 1 | RED | 5 | 6 | 0 | 0 |
| 2 | 1 | RED | 5 | 6 | 0 | 0 |
| 3 | 1 | RED | 7 | 8 | 0 | 0 |
| 4 | 1 | GREEN | 7 | 8 | 0 | 0 |
| 5 | 2 | RED | 1 | 2 | 0 | 0 |
| 6 | 2 | RED | 1 | 2 | 0 | 0 |
| 7 | 2 | RED | 3 | 4 | 0 | 0 |
| 8 | 2 | GREEN | 3 | 4 | 0 | 0 |
| 9 | | RED | 0 | 0 | 0 | 0 |
| 10 | | RED | 0 | 0 | 0 | 0 |
| 11 | | RED | 0 | 0 | 0 | 0 |
| 12 | | RED | 0 | 0 | 0 | 0 |

**Comm Ports [6.6]**

| Channel | Port | Echo | Mode |
|---|---|---|---|
| Async 1 | SP1 | NONE | 0 |
| Async 2 | SP2 | NONE | 0 |
| Async 3 | SP8 | NONE | 0 |
| Async 4 | OFF | NONE | 0 |
| Sync 1 | SP5S | | |
| Sync 2 | OFF | | |
| TS2CVM | NONE | | |
| Opticom | NONE | | |
| GPS | NONE | | |

**Unit Params [1.2.1]**

| | | | |
|---|---|---|---|
| *Screen Size | 8 | Metric | OFF |
| Startup Flash | 0 | Red Revert | 1 |
| MCE Timeout | 0 | Auto Ped Clear | OFF |
| Loc Fsh Start | RSt | Display Time | 30 |
| Yellow < 3" | OFF | Tone Disable | ON |
| Allow Skip Yel | OFF | AudioPedTime | OFF |
| Start Red Tm | 6 | Phase Mode | STD8 |
| *Startup Calls | OFF | CNA FreeTime | 0 |
| TOD Dimming | OFF | Diamond Mode | 4Ph |
| ST over Prmpt | OFF | Free Ring Seq | 1 |
| Feature Profile | 1 | IO Mode | USER |
| Mx Seek TrkTm | 0 | Max Cyc Timer | 0 |
| Mx Seek Dwell | 0 | CycFlt Actn | ALARM |
| Prmpt/Ext Coor | EXT | Clmc Decide | OFF |
| Aux Switch | STOPTM | LPAlt Srs | OFF |
| *InhFYA Red St | Off | *SecurityDelay | 0 |

* - 76.12B or newer

**Times+ [1.1.7]**

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Walk2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BikeClr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GrnFlash | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SfClrMn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SfClrNoFish | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |

**Comm [6.2]**

| Port | Baud Rate | FCM |
|---|---|---|
| 1 | 9600 | 6 |
| 2 | 9600 | 6 |
| 3 | 1200 | 0 |
| 4 | 1200 | 0 |

**Comm [6.5]**

| | | | | | Host IPs | | | |
|---|---|---|---|---|---|---|---|---|
| IP Address: | 10 | 128 | 1 | 51 | ATMS | | | |
| Mask: | 255 | 255 | 255 | 0 | 172 | 26 | 17 | 230 |
| Gateway: | 10 | 128 | 1 | 254 | SG | | | |
| Port #: | 5051 | | | | 0 | 0 | 0 | 0 |

CITY of CLOVIS

**Phase Seq. (2 ring) Chart [1.2.4]**

| Seq # | Ring | Phases | | | | |
|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 2 | 3 | 4 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 |
| 2 | 1 | 1 | 2 | 3 | 4 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 |
| 3 | 1 | 2 | 1 | 3 | 4 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 |
| 4 | 1 | 2 | 1 | 3 | 4 | |
| | 2 | 6 | 5 | 7 | 8 | |
| 5 | 1 | 1 | 2 | 3 | 4 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 |
| 6 | 1 | 1 | 2 | 3 | 4 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 |
| 7 | 1 | 2 | 1 | 3 | 4 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 |
| 8 | 1 | 2 | 1 | 3 | 4 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 |
| 9 | 1 | 1 | 2 | 4 | 3 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 |
| 10 | 1 | 1 | 2 | 4 | 3 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 |
| 11 | 1 | 2 | 1 | 4 | 3 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 |
| 12 | 1 | 2 | 1 | 4 | 3 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 |
| 13 | 1 | 1 | 2 | 4 | 3 | |
| | 2 | 5 | 6 | 8 | 7 | |
| 14 | 1 | 1 | 2 | 4 | 3 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 |
| 15 | 1 | 2 | 1 | 4 | 3 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 |
| 16 | 1 | 2 | 1 | 4 | 3 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 |

**Advance Warning [1.1.9]**

| | Ph | Tm |
|---|---|---|
| Aux Out #1 | 0 | 0 |
| Aux Out #2 | 0 | 0 |

**NAME:** MINNEWAWA @ SHEPHERD **ID:** 299 **Configuration:** Standard File

V76.12
ATMS 1.5.45.263

| | | | |
|---|---|---|---|
| Prepared by: | T. Barker | Date Installed / By: | 1/10/2022 |
| Checked by: | T. Barker | Date Superseded: | |

Date Printed: 1/10/22
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## [2.1] Coord Modes+

| | |
|---|---|
| Test OpMode | 0 |
| Correction | LONG |
| Maximum | MAX INH |
| Force Mode | FIXED |
| Flash Mode | CHANNEL |
| **Coord Modes+ (Page 2)** | |
| FreeonSeqCh | ON |
| Closed Loop | OFF |
| External | OFF |
| Latch Sec Frc | OFF |
| Stop-in-Walk | OFF |
| Ped Recycle | P1256_INH |
| Expand Split | OFF |
| Easy Float | OFF |
| Auto Reset | ON |
| NTCIP Yield | + 0 |
| Leave Walk | |
| Before | TIMED |
| After | TIMED |

Intersection Name: MINNEWAWA @ SHEPHERD

CITY OF CLOVIS

ID: 293

Date Printed: 12/2/2019

## [2.4] Patterns

| Pat# | Cyc | Off-Set | Split | Seq |
|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 1 |
| 2 | 0 | 0 | 2 | 1 |
| 3 | 0 | 0 | 3 | 1 |
| 4 | 0 | 0 | 4 | 1 |
| 5 | 0 | 0 | 5 | 1 |
| 6 | 0 | 0 | 6 | 1 |
| 7 | | 0 | 7 | 1 |
| 8 | 0 | 0 | 8 | 1 |
| 9 | 0 | 0 | 9 | 1 |
| 10 | 0 | 0 | 10 | 1 |
| 30 | 0 | 0 | 0 | 1 |
| 31 | 0 | 0 | 0 | 1 |
| 32 | 0 | 0 | 0 | 1 |

## [2.7.1-24] Splits

| Split | [2.7] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 2 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 3 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 4 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 5 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 6 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 7 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 8 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 9 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 10 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 30 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 31 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 32 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |

## [2.5] Transition

| Pat# | Short | Long | Dwell | No Shortway Ø | | | | E-Yld | Offset | Ret Hold | Flt | Veh | Ped | FRC MODE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 2 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 3 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 4 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 5 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 6 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 7 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 8 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 9 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 10 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 30 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | |
| 31 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | |
| 32 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | |

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### Overlap 1-6 Program Parms & Parm+ [1.5.2.1] [1.5.2.8]

| | | | | |
|---|---|---|---|---|
| 1 | Included Ø | | NORMAL | |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| A | Conflict Olap | | Red | 1 |
| | Conflict Ped | | LG | OFF |
| 2 | Included Ø | | NORMAL | |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| B | Conflict Olap | | Red | 1 |
| | Conflict Ped | | LG | OFF |
| 3 | Included Ø | | NORMAL | |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| C | Conflict Olap | | Red | 1 |
| | Conflict Ped | | LG | OFF |
| 4 | Included Ø | | NORMAL | |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| D | Conflict Olap | | Red | 1 |
| | Conflict Ped | | LG | OFF |
| 5 | Included Ø | | NORMAL | |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| E | Conflict Olap | | Red | 1 |
| | Conflict Ped | | LG | OFF |
| 6 | Included Ø | | NORMAL | |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| F | Conflict Olap | | Red | 1 |
| | Conflict Ped | | LG | OFF |
| 7 | Included Ø | | NORMAL | |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| G | Conflict Olap | | Red | 1 |
| | Conflict Ped | | LG | OFF |
| 8 | Included Ø | | NORMAL | |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| H | Conflict Olap | | Red | 1 |
| | Conflict Ped | | LG | OFF |

### Unit Parameters [1.2.1]

| | |
|---|---|
| Stop Timer Over Preempt | OFF |
| Preempt or Ext Output | EXT |
| Max Seek Track Time | 0 |
| Max Seek Dwell Time | 0 |

### Channel Parameters [1.8.3]

| | |
|---|---|
| Pre Invert Rail Input | OFF |

### Preemption Options+ [3.Pre #.6]

| Pre # | Enable | Type | Output | Pattern | Skip | Co+Pre | Flash | Max/Min |
|---|---|---|---|---|---|---|---|---|
| 1 | ON | RAIL | TS2 | | OFF | OFF | OFF | MAX |
| 2 | OFF | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 3 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 4 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 5 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 6 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |

### Preemption Times [3.#.1]

| Pre # | Delay | MinDura | MaxPres | MinGrn | MinWlk | PedClr | Track Grn | Min Dwell |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | 4 | 19 | | |
| 4 | | | | | 4 | 18 | | |
| 5 | | | | | 4 | 19 | | |
| 6 | | | | | 4 | 20 | | |

### Preemption, Options [3.#.3]

| Pre # | Lock Input | Over-ride Auto Flash | Over-ride Higher Preempt# | Flash Dwell | Link |
|---|---|---|---|---|---|
| 1 | ON | ON | OFF | ON | |
| 2 | OFF | ON | OFF | OFF | |
| 3 | OFF | OFF | OFF | OFF | |
| 4 | OFF | OFF | OFF | OFF | |
| 5 | OFF | OFF | OFF | OFF | |
| 6 | OFF | OFF | OFF | OFF | |

### Preemption, Times+ [3.#.4]

| Pre No. | Extend Dwell | Return Max | Ped Clr | Yel | Red |
|---|---|---|---|---|---|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |

Pre 1 = RR1
Pre 2 = RR2
Pre 3 = EVA
Pre 4 = EVB
Pre 5 = EVC
Pre 6 = EVD

### Phases [3.#.2] - set the Dwell Phases

| Pre # | Column | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Dwell Veh | | | | | | | | | | |
| | Peds | | | | | | | | | | |
| 2 | Dwell Veh | | | | | | | | | | |
| | Peds | | | | | | | | | | |
| 3 | Dwell Veh | 2 | 5 | | | | | | | | |
| | Peds | | | | | | | | | | |
| 4 | Dwell Veh | 4 | 7 | | | | | | | | |
| | Peds | | | | | | | | | | |
| 5 | Dwell Veh | 1 | 6 | | | | | | | | |
| | Peds | | | | | | | | | | |
| 6 | Dwell Veh | 3 | 8 | | | | | | | | |
| | Peds | | | | | | | | | | |

### Phases [3.#.2] - Trk Veh

| Pre # | Phases |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

### Exit Phases [3.#.2]

| No. | Exit Phase | | | |
|---|---|---|---|---|
| 1 | 4 | 8 | | |
| 2 | | | | |
| 3 | 2 | 6 | | |
| 4 | 4 | 8 | | |
| 5 | 2 | 6 | | |
| 6 | 4 | 8 | | |

### Overlaps+ [3.#.5]

| Pre # | | Preempt Overlaps + |
|---|---|---|
| 1 | Track | |
| | Dwell | |
| 2 | Track | |
| | Dwell | |
| 3 | Track | |
| | Dwell | |
| 4 | Track | |
| | Dwell | |
| 5 | Track | |
| | Dwell | |
| 6 | Track | |
| | Dwell | |

### Low Priority Preempts [3.X; where X = 7 thru 10]

| Pre # | Enb | C+P | Lock | NoSkip | Qjump | Times: Alt Tbl | Min | Max | Lock | Priorty Phases | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | OFF | OFF | MAX | OFF | OFF | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 8 | OFF | OFF | MAX | OFF | OFF | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 9 | OFF | OFF | MAX | OFF | OFF | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 10 | OFF | OFF | MAX | OFF | OFF | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

### Advance Times [3.x.8]

| | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| YelChng | 0 | 0 | 0 | 0 | 0 | 0 |
| RedClr | 0 | 0 | 0 | 0 | 0 | 0 |
| TrkYelChng | 0 | 0 | 0 | 0 | 0 | 0 |
| TrkRedClr | 0 | 0 | 0 | 0 | 0 | 0 |

### OLP GENERAL PARAMETERS [1.5.1]

| | |
|---|---|
| Lock Inhibit | OFF |
| Conflict Lock Enable | OFF |
| Parent P Clearance | OFF |
| Xtra Incl Phases | OFF |
| InhibitLockInterval | Always |

**PREEMPTION NOTE:** Each preemption has it's own set of menus. To access each menu :

a. Press "3" for preemption

b. Then enter "Preempt number" (1 through 6 and shown as "#" in Schedules above)

c. Then enter "number of Menu item" you want to access (*1-Times, 2-Phases, 3-Options, 4-Times+, 5-Overlaps+ or 6-Options+*)

d. Once in an above menu push Escape once to go back to main preempton menu.

City of CLOVIS

Name: MINNEWAWA @ SHEI

ID: 293

Date Printed: 12/2/2019

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# CHANNEL SETTINGS [1.8] plus UNIT PARAMETERS [1.2.1]

## CHANNEL SETTINGS [1.8.1]

| Channel | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase / Olap # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 2 | 4 | 6 | 8 |
| Channel Type | VEH | VEH | VEH | VEH | VEH | VEH | VEH | VEH | OLP | OLP | OLP | OLP | PED | PED | PED | PED |
| Channel Flash | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | DRK | DRK | DRK | DRK |
| Flash 1-2 Hertz | | X | | X | | X | | X | | | | | | | | |
| | Page 1 | | | | | | | | Page 2 | | | | | | | |

## Chan Settings [1.8.2]

| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|
| | VEH | VEH | VEH | VEH | VEH | VEH | VEH | VEH |
| | DRK | DRK | DRK | DRK | DRK | DRK | DRK | DRK |

## CHANNEL PARMETERS [1.8.3]

| | |
|---|---|
| CH 17-24 Mapping: | DEFAULT |
| D-Conn Mapping: | NONE |
| Invert Rail Inputs: | OFF |
| C1-C11-ABC IO Mode: | USER |

## CHANNELS+ [1.8.4]

| Channel | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flash Red | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Flash Yellow | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Inh Red Fl in Preempt | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Olap Ovrd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## IO PARAMETERS [1.8.6]

| | |
|---|---|
| C1-C11-ABC IO Mode: | USER |
| D-Conn Mapping: | NONE |
| T & F BIU Mapping | DEFAULT |
| Invert Rail Inputs: | OFF |
| EVP Ped Confirm | OFF |

City of CLOVIS

## I/O LOGIC [1.8.7]

| Row# | Result | | Function | | | OP | Function | | | OP | Function | | | OP | Timer | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | I/O | Fcn | Inv | I/0 | Fcn | Logic | Inv | I/0 | Fcn | Logic | Inv | I/0 | Fcn | Logic | Dly | Sec |
| 1 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |
| 2 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |
| 3 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |
| 4 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |
| 5 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |
| 6 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |
| 7 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |
| 8 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |
| 9 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |
| 10 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |

## Ped Parms (MM>5>4)

| Det# | Call | No Act | Max Pres | Err Cnt |
|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 |
| 2 | 2 | 0 | 5 | 0 |
| 3 | 0 | 0 | 0 | 0 |
| 4 | 4 | 0 | 5 | 0 |
| 5 | 0 | 0 | 0 | 0 |
| 6 | 6 | 0 | 5 | 0 |
| 7 | 0 | 0 | 0 | 0 |
| 8 | 8 | 0 | 5 | 0 |

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**Veh Par 1-32 [5.1]**

| Det # | Input Slot | Call Ø | Swi Ø | Dlay | Ext | Que | No Act | Max Pres | Err Cnt | Fail Time |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1I1U | 1 | | | | | 0 | 0 | 0 | 255 |
| 2 | 2I2U | 2 | | | 1.4 | | 0 | 0 | 0 | 255 |
| 3 | 2I2L | 2 | | | | | 0 | 0 | 0 | 255 |
| 4 | 2I3U | 2 | | 10.0 | | | 0 | 0 | 0 | 255 |
| 5 | 2I3L | 2 | | | 2.0 | | 0 | 0 | 0 | 255 |
| 6 | 2I4U | 2 | | | 2.0 | 20 | 0 | 0 | 0 | 255 |
| 7 | 3I5U | 3 | | | | | 0 | 0 | 0 | 255 |
| 8 | 4I6U | 4 | | | 1.5 | | 0 | 0 | 0 | 255 |
| 9 | 4I6L | 4 | | | | | 0 | 0 | 0 | 255 |
| 10 | 4I7U | 4 | | 10.0 | | | 0 | 0 | 0 | 255 |
| 11 | 4I7L | 4 | | | 2.0 | | 0 | 0 | 0 | 255 |
| 12 | 4I8U | 4 | | | 2.0 | 20 | 0 | 0 | 0 | 255 |
| 13 | 1I9U | 1 | | | | | 0 | 0 | 0 | 255 |
| 14 | 3I9L | 3 | | | | | 0 | 0 | 0 | 255 |
| 15 | 5J1U | 5 | | | | | 0 | 0 | 0 | 255 |
| 16 | 6J2U | 6 | | | 1.2 | | 0 | 0 | 0 | 255 |
| 17 | 6J2L | 6 | | | 0.7 | | 0 | 0 | 0 | 255 |
| 18 | 6J3U | 6 | | 10.0 | | | 0 | 0 | 0 | 255 |
| 19 | 6J3L | 6 | | | 2.0 | | 0 | 0 | 0 | 255 |
| 20 | 6J4U | 6 | | | 2.0 | 20 | 0 | 0 | 0 | 255 |
| 21 | 7J5U | 7 | | | | | 0 | 0 | 0 | 255 |
| 22 | 8J6U | 8 | | | 1.4 | | 0 | 0 | 0 | 255 |
| 23 | 8J6L | 8 | | | 0.1 | | 0 | 0 | 0 | 255 |
| 24 | 8J7U | 8 | | 10.0 | | | 0 | 0 | 0 | 255 |
| 25 | 8J7L | 8 | | | 2.0 | 20 | 0 | 0 | 0 | 255 |
| 26 | 8J8U | 8 | | | 2.0 | 20 | 0 | 0 | 0 | 255 |
| 27 | 5J9U | 5 | | | | | 0 | 0 | 0 | 255 |
| 28 | 7J9L | 7 | | | | | 0 | 0 | 0 | 255 |
| 29 | 2I11U | 2 | | | | | 0 | 0 | 0 | 255 |
| 30 | 4I11L | 4 | | | | | 0 | 0 | 0 | 255 |
| 31 | 6J11U | 6 | | | | | 0 | 0 | 0 | 255 |
| 32 | 8J11L | 8 | | | | | 0 | 0 | 0 | 255 |
| 33 | 1I1L | 1 | | | | | 0 | 0 | 0 | 255 |
| 34 | 2I4L | 2 | | | 2.0 | 20 | 0 | 0 | 0 | 255 |
| 35 | 3I5L | 3 | | | | | 0 | 0 | 0 | 255 |
| 36 | 4I8L | 4 | | | 2.0 | 20 | 0 | 0 | 0 | 255 |
| 37 | 5J1L | 5 | | | | | 0 | 0 | 0 | 255 |
| 38 | 6J4L | 6 | | | 2.0 | 20 | 0 | 0 | 0 | 255 |
| 39 | 7J5L | 7 | | | | | 0 | 0 | 0 | 255 |
| 40 | 8J8L | 8 | | | 2.0 | 20 | 0 | 0 | 0 | 255 |
| 41 | 4I10U | 4 | | | | | 0 | 0 | 0 | 255 |
| 42 | 4I10L | 4 | | | | | 0 | 0 | 0 | 255 |
| 43 | 8J10U | 8 | | | | | 0 | 0 | 0 | 255 |
| 44 | 8J10L | 8 | | | | | 0 | 0 | 0 | 255 |

**Vehicle Options 1-32 [5.2]**

| Det # | Call | Ext | Que | Add Init | Red Lock | Yell Lock | occ | vol |
|---|---|---|---|---|---|---|---|---|
| 1 | X | X | - | - | X | - | - | X |
| 2 | X | X | - | - | - | - | - | X |
| 3 | X | X | - | - | - | - | - | X |
| 4 | X | X | - | - | - | - | - | X |
| 5 | X | X | - | - | - | - | - | - |
| 6 | X | - | X | - | - | - | - | X |
| 7 | X | X | - | - | X | - | - | X |
| 8 | X | X | - | - | - | - | - | X |
| 9 | X | X | - | - | - | - | - | X |
| 10 | X | X | - | - | - | - | - | X |
| 11 | X | X | - | - | X | - | - | - |
| 12 | X | - | X | - | - | - | - | X |
| 13 | X | X | - | - | X | - | - | - |
| 14 | X | X | - | - | X | - | - | - |
| 15 | X | X | - | - | X | - | - | X |
| 16 | - | X | - | - | - | - | - | X |
| 17 | X | X | - | - | - | - | - | X |
| 18 | X | X | - | - | - | - | - | X |
| 19 | X | X | - | - | X | - | - | - |
| 20 | X | - | X | - | - | - | - | X |
| 21 | X | X | - | - | X | - | - | X |
| 22 | X | X | - | - | - | - | - | X |
| 23 | X | X | - | - | - | - | - | X |
| 24 | X | X | - | - | - | - | - | X |
| 25 | X | - | X | - | - | - | - | - |
| 26 | X | - | X | - | - | - | - | X |
| 27 | X | X | - | - | X | - | - | - |
| 28 | X | X | - | - | X | - | - | - |
| 29 | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - |
| 31 | - | - | - | - | - | - | - | - |
| 32 | - | - | - | - | - | - | - | - |
| 33 | X | X | - | - | X | - | - | X |
| 34 | X | - | X | - | - | - | - | - |
| 35 | X | X | - | - | X | - | - | X |
| 36 | X | - | X | - | - | - | - | - |
| 37 | X | X | - | - | X | - | - | X |
| 38 | X | - | X | - | - | - | - | X |
| 39 | X | X | - | - | X | - | - | X |
| 40 | X | - | X | - | - | - | - | X |
| 41 | - | X | - | - | - | - | - | - |
| 42 | - | X | - | - | - | - | - | - |
| 43 | - | X | - | - | - | - | - | - |
| 44 | - | X | - | - | - | - | - | - |

**Parameters+ 1-32 [5.3]**

| Det # | Occupancy G | Occupancy Y | Occupancy R | Delay 1 | Delay 2 | Type | Src |
|---|---|---|---|---|---|---|---|
| 1 | - | - | - | | | NORM | |
| 2 | - | - | - | | | NORM | |
| 3 | - | - | - | | | NORM | |
| 4 | - | - | - | | | NORM | |
| 5 | - | - | - | | | NORM | |
| 6 | - | - | - | | | NORM | |
| 7 | - | - | - | | | NORM | |
| 8 | - | - | - | | | NORM | |
| 9 | - | - | - | | | NORM | |
| 10 | - | - | - | | | NORM | |
| 11 | - | - | - | | | NORM | |
| 12 | - | - | - | | | NORM | |
| 13 | - | - | - | | | NORM | |
| 14 | - | - | - | | | NORM | |
| 15 | - | - | - | | | NORM | |
| 16 | - | - | - | | | NORM | |
| 17 | - | - | - | | | NORM | |
| 18 | - | - | - | | | NORM | |
| 19 | - | - | - | | | NORM | |
| 20 | - | - | - | | | NORM | |
| 21 | - | - | - | | | NORM | |
| 22 | - | - | - | | | NORM | |
| 23 | - | - | - | | | NORM | |
| 24 | - | - | - | | | NORM | |
| 25 | - | - | - | | | NORM | |
| 26 | - | - | - | | | NORM | |
| 27 | - | - | - | | | NORM | |
| 28 | - | - | - | | | NORM | |
| 29 | - | - | - | | | BIKE | |
| 30 | - | - | - | | | BIKE | |
| 31 | - | - | - | | | BIKE | |
| 32 | - | - | - | | | BIKE | |
| 33 | - | - | - | | | NORM | |
| 34 | - | - | - | | | NORM | |
| 35 | - | - | - | | | NORM | |
| 36 | - | - | - | | | NORM | |
| 37 | - | - | - | | | NORM | |
| 38 | - | - | - | | | NORM | |
| 39 | - | - | - | | | NORM | |
| 40 | - | - | - | | | NORM | |
| 41 | - | - | - | | | NORM | |
| 42 | - | - | - | | | NORM | |
| 43 | - | - | - | | | NORM | |
| 44 | - | - | - | | | NORM | |

**Info Only**

| Det # | Dir | Type |
|---|---|---|
| 1 | NBLT | Front |
| 2 | SB | INT |
| 3 | SB | FAR |
| 4 | SB | RT |
| 5 | SB | BIKE |
| 6 | SB | Front |
| 7 | EBLT | Front |
| 8 | WB | INT |
| 9 | WB | FAR |
| 10 | WB | RT |
| 11 | WB | BIKE |
| 12 | WB | Front |
| 13 | NBLT | Loops |
| 14 | EBLT | Loops |
| 15 | SBLT | Front |
| 16 | NB | INT |
| 17 | NB | FAR |
| 18 | NB | RT |
| 19 | NB | BIKE |
| 20 | NB | Front |
| 21 | WBLT | Front |
| 22 | EB | INT |
| 23 | EB | FAR |
| 24 | EB | RT |
| 25 | EB | Back |
| 26 | EB #1 | Front |
| 27 | SBLT | Loops |
| 28 | WBLT | Loops |
| 29 | Not in | Use |
| 30 | Not in | Use |
| 31 | Not in | Use |
| 32 | Not in | Use |
| 33 | Not in | Use |
| 34 | SB | Back |
| 35 | Not in | Use |
| 36 | WB | Back |
| 37 | Not in | Use |
| 38 | NB | Back |
| 39 | Not in | Use |
| 40 | EB #2 | Front |
| 41 | Not in | Use |
| 42 | Not in | Use |
| 43 | Not in | Use |
| 44 | Not in | Use |

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### Alt# 1 Times Table [1.1.6.1]

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

### Alt# 2 Times Table [1.1.6.1]

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

### Alt# 3 Times Table [1.1.6.1]

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

### Alt# 1 Options Table [1.1.6.2]

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Entry | - | - | - | - | - | - | - | - |
| Enabl SimGap | X | X | X | X | X | X | X | X |
| Guar Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | X | X | X | X | X | X | X | X |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |
| Conflicting Ø2 | | | | | | | | |

### Alt# 2 Options Table [1.1.6.2]

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | X | X | X | X | X | X | X | X |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Enrty | - | - | - | - | - | - | - | - |
| Enabl SimGap | X | X | X | X | X | X | X | X |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |
| Conflicting Ø2 | | | | | | | | |

### Alt# 3 Options Table [1.1.6.2]

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | X | X | X | X | X | X | X | X |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Enrty | - | - | - | - | - | - | - | - |
| Enabl SimGap | X | X | X | X | X | X | X | X |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |
| Conflicting Ø2 | | | | | | | | |

### Alt# 4 Options Table [1.1.6.2]

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | X | X | X | X | X | X | X | X |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Entry | - | - | - | - | - | - | - | - |
| Enabl SimGap | X | X | X | X | X | X | X | X |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |
| Conflicting Ø2 | | | | | | | | |

### Alternate Tables [2.6]

| Pat# | POpt | PTime | DetGrp | Call/Inh | Olp Off 1 2 3 4 5 6 7 8 | ASC | CNA1 | Max2 | Dia |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | 0 | Off | | DFT |
| 2 | | | | | | 0 | Off | | DFT |
| 3 | | | | | | 0 | Off | | DFT |
| 4 | | | | | | 0 | Off | | DFT |
| 5 | | | | | | 0 | Off | | DFT |
| 6 | | | | | | 0 | Off | | DFT |
| 7 | | | | | | 0 | Off | | DFT |
| 8 | | | | | | 0 | Off | | DFT |
| 9 | | | | | | 0 | Off | | DFT |
| 10 | 1 | | | | | 0 | Off | | DFT |
| 11 | | | | | | 0 | Off | | DFT |
| 12 | | | | | | 0 | Off | | DFT |
| 13 | | | | | | 0 | Off | | DFT |
| 14 | | | | | | 0 | Off | | DFT |
| 15 | | | | | | 0 | Off | | DFT |
| 16 | | | | | | 0 | Off | | DFT |
| 17 | | | | | | 0 | Off | | DFT |
| 18 | | | | | | 0 | Off | | DFT |
| 19 | | | | | | 0 | Off | | DFT |
| 20 | | | | | | 0 | Off | | DFT |
| 21 | | | | | | 0 | Off | | DFT |
| 22 | | | | | | 0 | Off | | DFT |
| 23 | | | | | | 0 | Off | | DFT |
| 24 | | | | | | 0 | Off | | DFT |

### Time Base Parameters [4.6]

| | | |
|---|---|---|
| Daylight Savings Time | DISABLE | |
| Time Base Sync Ref | 0 | |
| GMT Offset | - | 0 |
| Daylight Savings | Mon | Week |
| Spring | 3 | 2 |
| Fall | 11 | 1 |

City of CLOVIS

**NAME: MINNEWAWA @ SHEPHERD**

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## Annual Schedule [4.3]

| | Month | | | | | | | | | | | | Day of Week | | | | | | | Date | | | | | | | | | | | |

| # | Alarm | Ev | Air |
|---|---|---|---|
| 1 | Power Up Alarm. | X | X |
| 2 | Stop Timing | X | X |
| 3 | Cabinet Door Activation | - | - |
| 4 | Coordination Failure | X | X |
| 5 | External Alarm # 1 | - | - |
| 6 | External Alarm # 2 | - | - |
| 7 | External Alarm # 3 | - | - |
| 8 | External Alarm # 4 | - | - |
| 9 | Closed Loop Disabled | - | - |
| 10 | External Alarm # 5 | - | - |
| 11 | External Alarm # 6 | - | - |
| 12 | Manual Control Enable | X | X |
| 13 | Coord Free Input | - | - |
| 14 | Local Flash Input | X | X |
| 15 | CMU/MMU Flash Input | - | - |
| 16 | MMU Fault | - | - |
| 17 | Cycle Fault | X | X |
| 18 | Cycle Failure | X | X |
| 19 | Coordination Fault | X | X |
| 20 | Controller Fault | X | X |
| 21 | Detector SDLC Fault | - | - |
| 22 | MMU SDLC Fault | - | - |
| 23 | Critical SDLC Fault | - | - |
| 24 | SDLC Res. Frame Fault | - | - |
| 25 | EEPROM CRC Fault | X | X |
| 26 | Detector Diagnostic Fault | - | - |
| 27 | Detector Fault from SDLC | - | - |
| 28 | Queue detector alarm | - | - |
| 29 | Ped Fault | - | - |
| 30 | Coord Diagnostic Fault | X | X |
| 37 | Download Request | X | X |
| 38 | Pattern Change | - | - |
| 49 | Preempt 1 Input | X | X |
| 50 | Preempt 2 Input | - | - |
| 51 | Preempt 3 Input | X | X |
| 52 | Preempt 4 Input | X | X |
| 53 | Preempt 5 Input | X | X |
| 54 | Preempt 6 Input | X | X |
| 55 | Preempt 7 Input | - | - |
| 56 | Preempt 8 Input | - | - |
| 57 | Preempt 9 Input | - | - |
| 58 | Preempt 10 Input | - | - |
| 59 | EEPROM Compare Fault | - | - |
| 60 | Coordination Failure | X | X |
| 73 | Controller Access | X | X |
| 81 | FIO Changed Status | X | X |

**Call Phases[1.1.5]**

| Ø | Phases Called By Ø |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |
| 11 | |
| 12 | |
| 13 | |
| 14 | |
| 15 | |
| 16 | |

**Redirect Phases[1.1.5]**

| | From | To | From | To | From | To | From | To |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |

**Inhibit Phases[1.1.5]**

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 15 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Alt Call & Redirect # 1 [1.1.6.3]**

| Col | Ø | Phases Called By Ø |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

| | From | To | From | To | From | To | From | To |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |

**Alt Inhibit Phases # 1 [1.1.6.3]**

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Alt Call & Redirect # 2 [1.1.6.3]**

| Col | Ø | Phases Called By Ø |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

| | From | To | From | To | From | To | From | To |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |

**Alt Inhibit Phases # 2 [1.1.6.3]**

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Alarm Parameters [1.6.7.1]**

| | |
|---|---|
| Preempt Events Enable: | ON |
| Loc Pattern Event Enable: | ON |
| Reassign User Alarm #1 In (5): | 0 |
| Reassign User Alarm #2 In (6): | 0 |
| Local Txmt Alarms: | OFF |
| Mon/Flash Alarm Delay: | 15 |

City of CLOVIS

Date Printed
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ID: 293 Name: MINNEWAWA @ SHEPHERD

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## I/O Inputs - 1.8.9.1.5

| C-1 PIN | I/O Source | Function | Input Name |
|---|---|---|---|
| 39 | I1-1 | 2 | Veh Det 2 |
| 40 | I1-2 | 16 | Veh Det 16 |
| 41 | I1-3 | 8 | Veh Det 8 |
| 42 | I1-4 | 22 | Veh Det 22 |
| 43 | I1-5 | 3 | Veh Det 3 |
| 44 | I1-6 | 17 | Veh Det 17 |
| 45 | I1-7 | 9 | Veh Det 9 |
| 46 | I1-8 | 23 | Veh Det 23 |
| 47 | I2-1 | 6 | Veh Det 6 |
| 48 | I2-2 | 20 | Veh Det 20 |
| 49 | I2-3 | 12 | Veh Det 12 |
| 50 | I2-4 | 26 | Veh Det 26 |
| 51 | I2-5 | 198 | Pre 1 In |
| 52 | I2-6 | 199 | Pre 2 In |
| 53 | I2-7 | 189 | Unused |
| 54 | I2-8 | 189 | Unused |
| 55 | I3-1 | 15 | Veh Det 15 |
| 56 | I3-2 | 1 | Veh Det 1 |
| 57 | I3-3 | 21 | Veh Det 21 |
| 58 | I3-4 | 7 | Veh Det 7 |
| 59 | I3-5 | 27 | Veh Det 27 |
| 60 | I3-6 | 13 | Veh Det 13 |
| 61 | I3-7 | 28 | Veh Det 28 |
| 62 | I3-8 | 14 | Veh Det 14 |
| 63 | I4-5 | 4 | Veh Det 4 |
| 64 | I4-6 | 18 | Veh Det 18 |
| 65 | I4-7 | 10 | Veh Det 10 |
| 66 | I4-8 | 24 | Veh Det 24 |
| 67 | I5-1 | 130 | Ped Call 2 |
| 68 | I5-2 | 134 | Ped Call 6 |
| 69 | I5-3 | 132 | Ped Call 4 |
| 70 | I5-4 | 136 | Ped Call 8 |
| 71 | I5-5 | 200 | Pre 3 In |
| 72 | I5-6 | 201 | Pre 4 In |
| 73 | I5-7 | 202 | Pre 5 In |
| 74 | I5-8 | 203 | Pre 6 In |
| 75 | I6-1 | 189 | Unused |
| 76 | I6-2 | 5 | Veh Det 5 |
| 77 | I6-3 | 19 | Veh Det 19 |
| 78 | I6-4 | 11 | Veh Det 11 |
| 79 | I6-5 | 25 | Veh Det 25 |
| 80 | I6-6 | 178 | Int Advance |
| 81 | I6-7 | 208 | Local Flash |
| 82 | I6-8 | 207 | Comp StopTm |

## I/O OUTPU - 1.8.9.2.5

| C-1 PIN | I/O Source | Function | Output Name |
|---|---|---|---|
| 1 | Logic Grd | | |
| 2 | O1-1 | 14 | Red Ch 14 |
| 3 | O1-2 | 62 | Grn Chan 14 |
| 4 | O1-3 | 4 | Red Ch 4 |
| 5 | O1-4 | 28 | Yel Chan 4 |
| 6 | O1-5 | 52 | Grn Chan 4 |
| 7 | O1-6 | 3 | Red Ch 3 |
| 8 | O1-7 | 27 | Yel Chan 3 |
| 9 | O1-8 | 51 | Grn Chan 3 |
| 10 | O2-1 | 13 | Red Ch 13 |
| 11 | O2-2 | 61 | Grn Chan 13 |
| 12 | O2-3 | 2 | Red Ch 2 |
| 13 | O2-4 | 26 | Yel Chan 2 |
| 14 | Logic Grd | | |
| 15 | O2-5 | 50 | Grn Chan 2 |
| 16 | O2-6 | 1 | Red Ch 1 |
| 17 | O2-7 | 25 | Yel Chan 1 |
| 18 | O2-8 | 49 | Grn Chan 1 |
| 19 | O3-1 | 16 | Red Ch 16 |
| 20 | O3-2 | 64 | Grn Chan 16 |
| 21 | O3-3 | 8 | Red Ch 8 |
| 22 | O3-4 | 32 | Yel Chan 8 |
| 23 | O3-5 | 56 | Grn Chan 8 |
| 24 | O3-6 | 7 | Red Ch 7 |
| 25 | O3-7 | 31 | Yel Chan 7 |
| 26 | O3-8 | 55 | Grn Chan 7 |
| 27 | O4-1 | 15 | Red Ch 15 |
| 28 | O4-2 | 63 | Grn Chan 15 |
| 29 | O4-3 | 6 | Red Ch 6 |
| 30 | O4-4 | 30 | Yel Chan 6 |
| 31 | O4-5 | 54 | Grn Chan 6 |
| 32 | O4-6 | 5 | Red Ch 5 |
| 33 | O4-7 | 29 | Yel Chan 5 |
| 34 | O4-8 | 53 | Grn Chan 5 |
| 35 | O5-1 | 37 | Yel Chan 13 |
| 36 | O5-2 | 39 | Yel Chan 15 |
| 37 | O5-3 | 38 | Yel Chan 14 |
| 38 | O5-4 | 40 | Yel Chan 16 |
| 100 | O5-5 | 42 | Yel Chan 18 |
| 101 | O5-6 | 41 | Yel Chan 17 |
| 102 | O5-7 | 115 | Not Used |
| 103 | O5-8 | 114 | Watchdog |

| C-1 PIN | I/O Source | Function | Output Name |
|---|---|---|---|
| 83 | O6-1 | 18 | Red Ch 18 |
| 84 | O6-2 | 66 | Grn Chan 18 |
| 85 | O6-3 | 12 | Red Ch 12 |
| 86 | O6-4 | 36 | Yel Chan 12 |
| 87 | O6-5 | 60 | Grn Chan 12 |
| 88 | O6-6 | 11 | Red Ch 11 |
| 89 | O6-7 | 35 | Yel Chan 11 |
| 90 | O6-8 | 59 | Grn Chan 11 |
| 91 | O7-1 | 17 | Red Ch 17 |
| 92 | Logic Grd | | |
| 93 | O7-2 | 65 | Grn Chan 17 |
| 94 | O7-3 | 10 | Red Ch 10 |
| 95 | O7-4 | 34 | Yel Chan 10 |
| 96 | O7-5 | 58 | Grn Chan 10 |
| 97 | O7-6 | 9 | Red Ch 9 |
| 98 | O7-7 | 33 | Yel Chan 9 |
| 99 | O7-8 | 57 | Grn Chan 9 |
| I/O Outputs - 1.8.9.2.5 C-11 OUTPUTS | | | |
| 1 | O8-1 | 115 | Not Used |
| 2 | O8-2 | 115 | Not Used |
| 3 | O8-3 | 115 | Not Used |
| 4 | O8-4 | 115 | Not Used |
| I/O Inputs - 1.8.9.1.5 C-11 INPUTS | | | |
| 15 | I7-1 | 33 | Veh Det 33 |
| 16 | I7-2 | 34 | Veh Det 34 |
| 17 | I7-3 | 35 | Veh Det 35 |
| 18 | I7-4 | 36 | Veh Det 36 |
| 19 | I7-5 | 37 | Veh Det 37 |
| 20 | I7-6 | 38 | Veh Det 38 |
| 21 | I7-7 | 39 | Veh Det 39 |
| 22 | I7-8 | 40 | Veh Det 40 |
| 23 | I8-1 | 41 | Veh Det 41 |
| 24 | I8-2 | 42 | Veh Det 42 |
| 25 | I8-3 | 43 | Veh Det 43 |
| 26 | I8-4 | 44 | Veh Det 44 |
| 27 | I8-5 | 189 | Unused |
| 28 | I8-6 | 189 | Unused |
| 29 | I8-7 | 189 | Unused |
| 30 | I8-8 | 189 | Unused |

City of CLOVIS

ID: 293

NAME: MINNEWAWA @ SHEPHERD

Date Printed: 12/2/2019

**ID NUMBER: C0293**

**LOCATION: MINNEWAWA and SHEPHERD**

T. Barker
6/22/2020

**CITY OF CLOVIS**
**332L CABINET**
**44 DETECTOR SETUP**

**DETECTOR ASSIGNMENTS**

| | NBLT | SB INT | SBRT | SB NEAR | EBLT | WB INT | WBRT | WB NEAR | NBLT | | | ISOLATORS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | I1 | I2 | I3 | I4 | I5 | I6 | I7 | I8 | I9 | I10 | I11 | West Leg I12 | East Leg I13 | I14 |
| UPPER | Ph 1<br>Call & Ext<br>T2-1 & 2<br>C1-56<br>DET 1<br>RED LOCK<br>FRONT | Ph 2<br>Call & Ext<br>T2-5 & 6<br>C1-39<br>DET 2<br>1.4 | Ph 2<br>Call & Ext<br>T2-9 & 10<br>C1-63<br>DET 4<br>10.0 Sec | Ph 2<br>Call & TP3<br>T4-1 & 2<br>C1-47<br>DET 6<br>Queue 20<br>2.0<br>FRONT | Ph 3<br>Call & Ext<br>T4-5 & 6<br>C1-58<br>DET 7<br>RED LOCK<br>FRONT | Ph 4<br>Call & Ext<br>T4-9 & 10<br>C1-41<br>DET 8<br>1.5 | Ph 4<br>Call & Ext<br>T6-1 & 2<br>C1-65<br>DET 10<br>10.0 Sec | Ph 4<br>Call & TP3<br>T6-5 & 6<br>C1-49<br>DET 12<br>Queue 20<br>2.0<br>FRONT | Ph 1<br>Call & Ext<br>T6-9 & 10<br>C1-60<br>DET 13<br>RED LOCK<br>2nd &<br>3rd Loop | Ph 2/4<br>Ext<br>T10-5 & 6<br>C11-23<br>DET 41 | Ph 2<br>Call & Ext<br>T8-1<br>C1-80<br>DET 29 | Ph 2<br>PED CALL<br>T8-4<br>C1-67 | Ph 6<br>PED CALL<br>T8-7<br>C1-68 | FLASH<br>SENSE<br>T8-10<br>C1-81 |
| LOWER | Ph 1<br>Call & Ext<br>T2-3 & 4<br>C11-15<br>DET 33<br>RED LOCK | Ph 2<br>Call & Ext<br>T2-7 & 8<br>C1-43<br>DET 3<br>0.0 | Ph 2<br>Call & Ext<br>T2-11 & 12<br>C1-76<br>DET 5<br>RED LOCK<br>2.0 | Ph 2<br>Call & TP3<br>T4-3 & 4<br>C11-16<br>DET 34<br>Queue 20<br>2.0<br>BACK | Ph 3<br>Call & Ext<br>T4-7 & 8<br>C11-17<br>DET 35<br>RED LOCK | Ph 4<br>Call & Ext<br>T4-11 & 12<br>C1-45<br>DET 9<br>0.0 | Ph 4<br>Call & Ext<br>T6-3 & 4<br>C1-78<br>DET 11<br>RED LOCK<br>2.0 | Ph 4<br>Call & TP3<br>T6-7 & 8<br>C11-18<br>DET 36<br>Queue 20<br>2.0<br>BACK | Ph 3<br>Call & Ext<br>T6- 11 & 12<br>C1-62<br>DET 14<br>RED LOCK<br>2nd &<br>3rd Loop | Ph 2/4<br>Ext<br>T10-7 & 8<br>C11-24<br>DET 42 | Ph 4<br>Call & Ext<br>T8-2<br>C1-53<br>DET 30 | Ph 4<br>PED CALL<br>T8-5<br>C1-69 | Ph 8<br>PED CALL<br>T8-8<br>C1-70 | STOP<br>TIME<br>T8-11<br>C1-82 |
| | | SB FAR | SB BIKE | SB NEAR | | WB FAR | WB BIKE | WB NEAR | EBLT | | | North Leg | South Leg | |

| | SBLT | NB INT | NBRT | NB NEAR | WBLT | EB INT | EBRT | EB NEAR | SBLT | | | SB | WB | UPS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J | J1 | J2 | J3 | J4 | J5 | J6 | J7 | J8 | J9 | J10 | J11 | J12 | J13 | J14 |
| UPPER | Ph 5<br>Call & Ext<br>T3-1 & 2<br>C1-55<br>DET 15<br>RED LOCK<br>FRONT | Ph 6<br>Ext<br>T3-5 & 6<br>C1-40<br>DET 16<br>1.2 | Ph 6<br>Call & Ext<br>T3-9 & 10<br>C1-64<br>DET 18<br>10.0 Sec | Ph 6<br>Call & TP3<br>T5-1 & 2<br>C1-48<br>DET 20<br>QUEUE 20<br>2.0<br>FRONT | Ph 7<br>Call & Ext<br>T5-5 & 6<br>C1-57<br>DET 21<br>RED LOCK<br>FRONT | Ph 8<br>Call & Ext<br>T5- 9 & 10<br>C1-42<br>DET 22<br>1.4 | Ph 8<br>Call & Ext<br>T7-1 & 2<br>C1-66<br>DET 24<br>10.0 Sec | Ph 8<br>Call & TP3<br>T7- 5 & 6<br>C1-50<br>DET 26<br>QUEUE 20<br>2.0<br>#1 LANE | Ph 5<br>Call & Ext<br>T7- 9 & 10<br>C1-59<br>DET 27<br>RED LOCK<br>2nd &<br>3rd Loop | Ph 6/8<br>Ext<br>T10-9 & 10<br>C11-25<br>DET 43 | Ph 6<br>Call & Ext<br>T9-1<br>C1-54<br>DET 31 | PH 2 & 5<br>EVA<br>Preempt<br>T9-4<br>C1 - 71 | PH 4 & 7<br>EVB<br>Preempt<br>T9-5<br>C1 - 72 | LOW<br>BATT<br>RAILROAD<br>1<br>T9-10<br>C1-51 |
| LOWER | Ph 5<br>Call & Ext<br>T3-3 & 4<br>C11-19<br>DET 37<br>RED LOCK | Ph 6<br>Call & Ext<br>T3-7 & 8<br>C1-44<br>DET 17<br>0.7 | Ph 6<br>Call & Ext<br>T3-11 & 12<br>C1-77<br>DET 19<br>RED LOCK<br>2.0 | Ph 6<br>Call & TP3<br>T5-3 & 4<br>C11-20<br>DET 38<br>QUEUE 20<br>2.0<br>BACK | Ph 7<br>Call & Ext<br>T5-7 & 8<br>C11-21<br>DET 39<br>RED LOCK | Ph 8<br>Call & Ext<br>T5-11 & 12<br>C1-46<br>DET 23<br>0.1 | Ph 8<br>Call & TP3<br>T7- 3 & 4<br>C1-79<br>DET 25<br>QUEUE 20<br>2.0<br>BACK | Ph 8<br>Call & TP3<br>T7- 7 & 8<br>C11-22<br>DET 40<br>QUEUE 20<br>2.0<br>#2 LANE | Ph 7<br>Call & Ext<br>T7-11 & 12<br>C1-61<br>DET 28<br>RED LOCK<br>2nd &<br>3rd Loop | Ph 6/8<br>Ext<br>T10-11 & 12<br>C11-26<br>DET 44 | Ph 8<br>Call & Ext<br>T9-2<br>C1-75<br>DET 32 | PH 6 & 1<br>EVC<br>Preempt<br>T9-7<br>C1 - 73 | PH 8<br>EVD<br>Preempt<br>T9-8<br>C1 - 74 | RAILROAD<br>2<br>T9-11<br>C1-52 |
| | | NB FAR | BIKE LANE | NB NEAR | | EB FAR | EB NEAR | EB NEAR | WBLT | | | NB | EB | |

COMMENTS:

DET #16 (NB INT) - Extend only due to northbound traffic exiting Serena Avenue crossing over the detection zone. "CALL" removed.
DET #19 (NB BIKE LANE) - Just added by CIP 18-08 Minnewawa Street Improvement Project.

222 Loop Amplifier
764 Discriminator
242 Isolator

# APPENDIX D

# VOLUME DEVELOPMENT WORKSHEETS

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **1 Willow Avenue/Behymer Avenue** | | | | | | |
| NBL | 103 | 0 | 103 | 119 | 0 | 119 |
| NBT | 693 | 0 | 693 | 731 | 0 | 731 |
| NBR | 31 | 20 | 51 | 54 | 66 | 120 |
| SBL | 66 | 2 | 68 | 95 | 8 | 103 |
| SBT | 611 | 0 | 611 | 560 | 0 | 560 |
| SBR | 54 | 0 | 54 | 40 | 0 | 40 |
| EBL | 80 | 0 | 80 | 21 | 0 | 21 |
| EBT | 129 | 1 | 130 | 104 | 5 | 109 |
| EBR | 182 | 0 | 182 | 121 | 0 | 121 |
| WBL | 32 | 58 | 90 | 55 | 39 | 94 |
| WBT | 135 | 4 | 139 | 138 | 3 | 141 |
| WBR | 135 | 7 | 142 | 119 | 5 | 124 |
| North Leg | | | | | | |
| Approach | 731 | 2 | 733 | 695 | 8 | 703 |
| Departure | 908 | 7 | 915 | 871 | 5 | 876 |
| Total | 1,639 | 9 | 1,648 | 1,566 | 13 | 1,579 |
| South Leg | | | | | | |
| Approach | 827 | 20 | 847 | 904 | 66 | 970 |
| Departure | 825 | 58 | 883 | 736 | 39 | 775 |
| Total | 1,652 | 78 | 1,730 | 1,640 | 105 | 1,745 |
| East Leg | | | | | | |
| Approach | 302 | 69 | 371 | 312 | 47 | 359 |
| Departure | 226 | 23 | 249 | 253 | 79 | 332 |
| Total | 528 | 92 | 620 | 565 | 126 | 691 |
| West Leg | | | | | | |
| Approach | 391 | 1 | 392 | 246 | 5 | 251 |
| Departure | 292 | 4 | 296 | 297 | 3 | 300 |
| Total | 683 | 5 | 688 | 543 | 8 | 551 |
| Total Approaches | | | | | | |
| Approach | 2,251 | 92 | 2,343 | 2,157 | 126 | 2,283 |
| Departure | 2,251 | 92 | 2,343 | 2,157 | 126 | 2,283 |
| Total | 4,502 | 184 | 4,686 | 4,314 | 252 | 4,566 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **2 Willow Avenue/Perrin Avenue** | | | | | | |
| NBL | 88 | 0 | 88 | 199 | 0 | 199 |
| NBT | 685 | 13 | 698 | 855 | 44 | 899 |
| NBR | 0 | 0 | 0 | 0 | 0 | 0 |
| SBL | 0 | 0 | 0 | 0 | 0 | 0 |
| SBT | 758 | 39 | 797 | 671 | 26 | 697 |
| SBR | 99 | 19 | 118 | 89 | 13 | 102 |
| EBL | 165 | 7 | 172 | 114 | 22 | 136 |
| EBT | 0 | 0 | 0 | 0 | 0 | 0 |
| EBR | 167 | 0 | 167 | 193 | 0 | 193 |
| WBL | 0 | 0 | 0 | 0 | 0 | 0 |
| WBT | 0 | 0 | 0 | 0 | 0 | 0 |
| WBR | 0 | 0 | 0 | 0 | 0 | 0 |
| North Leg | | | | | | |
| Approach | 857 | 58 | 915 | 760 | 39 | 799 |
| Departure | 850 | 20 | 870 | 969 | 66 | 1,035 |
| Total | 1,707 | 78 | 1,785 | 1,729 | 105 | 1,834 |
| South Leg | | | | | | |
| Approach | 773 | 13 | 786 | 1,054 | 44 | 1,098 |
| Departure | 925 | 39 | 964 | 864 | 26 | 890 |
| Total | 1,698 | 52 | 1,750 | 1,918 | 70 | 1,988 |
| East Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| West Leg | | | | | | |
| Approach | 332 | 7 | 339 | 307 | 22 | 329 |
| Departure | 187 | 19 | 206 | 288 | 13 | 301 |
| Total | 519 | 26 | 545 | 595 | 35 | 630 |
| Total Approaches | | | | | | |
| Approach | 1,962 | 78 | 2,040 | 2,121 | 105 | 2,226 |
| Departure | 1,962 | 78 | 2,040 | 2,121 | 105 | 2,226 |
| Total | 3,924 | 156 | 4,080 | 4,242 | 210 | 4,452 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **3 Peach Avenue/Behymer Avenue** | | | | | | |
| NBL | 0 | 48 | 48 | 0 | 33 | 33 |
| NBT | 0 | 0 | 0 | 0 | 0 | 0 |
| NBR | 0 | 0 | 0 | 0 | 0 | 0 |
| SBL | 1 | 0 | 1 | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 | 1 | 0 | 1 |
| EBL | 0 | 0 | 0 | 1 | 0 | 1 |
| EBT | 224 | 22 | 246 | 241 | 71 | 312 |
| EBR | 0 | 2 | 2 | 0 | 8 | 8 |
| WBL | 0 | 2 | 2 | 0 | 8 | 8 |
| WBT | 344 | 21 | 365 | 293 | 14 | 307 |
| WBR | 1 | 0 | 1 | 0 | 0 | 0 |
| North Leg | | | | | | |
| Approach | 1 | 0 | 1 | 1 | 0 | 1 |
| Departure | 1 | 0 | 1 | 1 | 0 | 1 |
| Total | 2 | 0 | 2 | 2 | 0 | 2 |
| South Leg | | | | | | |
| Approach | 0 | 48 | 48 | 0 | 33 | 33 |
| Departure | 0 | 4 | 4 | 0 | 16 | 16 |
| Total | 0 | 52 | 52 | 0 | 49 | 49 |
| East Leg | | | | | | |
| Approach | 345 | 23 | 368 | 293 | 22 | 315 |
| Departure | 225 | 22 | 247 | 241 | 71 | 312 |
| Total | 570 | 45 | 615 | 534 | 93 | 627 |
| West Leg | | | | | | |
| Approach | 224 | 24 | 248 | 242 | 79 | 321 |
| Departure | 344 | 69 | 413 | 294 | 47 | 341 |
| Total | 568 | 93 | 661 | 536 | 126 | 662 |
| Total Approaches | | | | | | |
| Approach | 570 | 95 | 665 | 536 | 134 | 670 |
| Departure | 570 | 95 | 665 | 536 | 134 | 670 |
| Total | 1,140 | 190 | 1,330 | 1,072 | 268 | 1,340 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **4 Minnewawa Avenue/Behymer Avenue** | | | | | | |
| NBL | 65 | 20 | 85 | 61 | 66 | 127 |
| NBT | 240 | 0 | 240 | 259 | 0 | 259 |
| NBR | 19 | 0 | 19 | 30 | 0 | 30 |
| SBL | 175 | 0 | 175 | 187 | 0 | 187 |
| SBT | 207 | 0 | 207 | 168 | 0 | 168 |
| SBR | 3 | 1 | 4 | 2 | 5 | 7 |
| EBL | 4 | 4 | 8 | 2 | 3 | 5 |
| EBT | 155 | 7 | 162 | 192 | 5 | 197 |
| EBR | 67 | 58 | 125 | 43 | 39 | 82 |
| WBL | 25 | 0 | 25 | 15 | 0 | 15 |
| WBT | 220 | 2 | 222 | 225 | 8 | 233 |
| WBR | 253 | 0 | 253 | 179 | 0 | 179 |
| EBU | 0 | 21 | 21 | 0 | 14 | 14 |
| North Leg | | | | | | |
| Approach | 385 | 1 | 386 | 357 | 5 | 362 |
| Departure | 497 | 4 | 501 | 440 | 3 | 443 |
| Total | 882 | 5 | 887 | 797 | 8 | 805 |
| South Leg | | | | | | |
| Approach | 324 | 20 | 344 | 350 | 66 | 416 |
| Departure | 299 | 58 | 357 | 226 | 39 | 265 |
| Total | 623 | 78 | 701 | 576 | 105 | 681 |
| East Leg | | | | | | |
| Approach | 498 | 2 | 500 | 419 | 8 | 427 |
| Departure | 349 | 7 | 356 | 409 | 5 | 414 |
| Total | 847 | 9 | 856 | 828 | 13 | 841 |
| West Leg | | | | | | |
| Approach | 226 | 90 | 316 | 237 | 61 | 298 |
| Departure | 288 | 44 | 332 | 288 | 93 | 381 |
| Total | 514 | 134 | 648 | 525 | 154 | 679 |
| Total Approaches | | | | | | |
| Approach | 1,433 | 113 | 1,546 | 1,363 | 140 | 1,503 |
| Departure | 1,433 | 113 | 1,546 | 1,363 | 140 | 1,503 |
| Total | 2,866 | 226 | 3,092 | 2,726 | 280 | 3,006 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **5 Minnewawa Avenue/Perrin Avenue** | | | | | | |
| NBL | 3 | 0 | 3 | 0 | 0 | 0 |
| NBT | 309 | 20 | 329 | 338 | 66 | 404 |
| NBR | 11 | 0 | 11 | 2 | 0 | 2 |
| SBL | 2 | 0 | 2 | 0 | 0 | 0 |
| SBT | 337 | 58 | 395 | 250 | 39 | 289 |
| SBR | 6 | 0 | 6 | 1 | 0 | 1 |
| EBL | 8 | 0 | 8 | 0 | 0 | 0 |
| EBT | 0 | 0 | 0 | 0 | 0 | 0 |
| EBR | 3 | 0 | 3 | 2 | 0 | 2 |
| WBL | 4 | 0 | 4 | 9 | 0 | 9 |
| WBT | 0 | 0 | 0 | 0 | 0 | 0 |
| WBR | 2 | 0 | 2 | 2 | 0 | 2 |
| North Leg | | | | | | |
| Approach | 345 | 58 | 403 | 251 | 39 | 290 |
| Departure | 319 | 20 | 339 | 340 | 66 | 406 |
| Total | 664 | 78 | 742 | 591 | 105 | 696 |
| South Leg | | | | | | |
| Approach | 323 | 20 | 343 | 340 | 66 | 406 |
| Departure | 344 | 58 | 402 | 261 | 39 | 300 |
| Total | 667 | 78 | 745 | 601 | 105 | 706 |
| East Leg | | | | | | |
| Approach | 6 | 0 | 6 | 11 | 0 | 11 |
| Departure | 13 | 0 | 13 | 2 | 0 | 2 |
| Total | 19 | 0 | 19 | 13 | 0 | 13 |
| West Leg | | | | | | |
| Approach | 11 | 0 | 11 | 2 | 0 | 2 |
| Departure | 9 | 0 | 9 | 1 | 0 | 1 |
| Total | 20 | 0 | 20 | 3 | 0 | 3 |
| Total Approaches | | | | | | |
| Approach | 685 | 78 | 763 | 604 | 105 | 709 |
| Departure | 685 | 78 | 763 | 604 | 105 | 709 |
| Total | 1,370 | 156 | 1,526 | 1,208 | 210 | 1,418 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **6 Minnewawa Avenue/Shepherd Avenue** | | | | | | |
| NBL | 120 | 0 | 120 | 129 | 0 | 129 |
| NBT | 152 | 10 | 162 | 205 | 31 | 236 |
| NBR | 18 | 0 | 18 | 24 | 0 | 24 |
| SBL | 91 | 30 | 121 | 48 | 20 | 68 |
| SBT | 193 | 28 | 221 | 169 | 19 | 188 |
| SBR | 34 | 0 | 34 | 36 | 0 | 36 |
| EBL | 34 | 0 | 34 | 44 | 0 | 44 |
| EBT | 318 | 0 | 318 | 295 | 0 | 295 |
| EBR | 128 | 0 | 128 | 111 | 0 | 111 |
| WBL | 14 | 0 | 14 | 6 | 0 | 6 |
| WBT | 265 | 0 | 265 | 240 | 0 | 240 |
| WBR | 137 | 11 | 148 | 88 | 35 | 123 |
| North Leg | | | | | | |
| Approach | 318 | 58 | 376 | 253 | 39 | 292 |
| Departure | 323 | 21 | 344 | 337 | 66 | 403 |
| Total | 641 | 79 | 720 | 590 | 105 | 695 |
| South Leg | | | | | | |
| Approach | 290 | 10 | 300 | 358 | 31 | 389 |
| Departure | 335 | 28 | 363 | 286 | 19 | 305 |
| Total | 625 | 38 | 663 | 644 | 50 | 694 |
| East Leg | | | | | | |
| Approach | 416 | 11 | 427 | 334 | 35 | 369 |
| Departure | 427 | 30 | 457 | 367 | 20 | 387 |
| Total | 843 | 41 | 884 | 701 | 55 | 756 |
| West Leg | | | | | | |
| Approach | 480 | 0 | 480 | 450 | 0 | 450 |
| Departure | 419 | 0 | 419 | 405 | 0 | 405 |
| Total | 899 | 0 | 899 | 855 | 0 | 855 |
| Total Approaches | | | | | | |
| Approach | 1,504 | 79 | 1,583 | 1,395 | 105 | 1,500 |
| Departure | 1,504 | 79 | 1,583 | 1,395 | 105 | 1,500 |
| Total | 3,008 | 158 | 3,166 | 2,790 | 210 | 3,000 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **7 Peach Avenue/Project Driveway 1** | | | | | | |
| NBL | 0 | 0 | 0 | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 | 0 | 0 | 0 |
| NBR | 0 | 0 | 0 | 0 | 0 | 0 |
| SBL | 0 | 5 | 5 | 0 | 16 | 16 |
| SBT | 0 | 0 | 0 | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 | 0 | 0 | 0 |
| EBT | 0 | 0 | 0 | 0 | 0 | 0 |
| EBR | 0 | 0 | 0 | 0 | 0 | 0 |
| WBL | 0 | 0 | 0 | 0 | 0 | 0 |
| WBT | 0 | 0 | 0 | 0 | 0 | 0 |
| WBR | 0 | 48 | 48 | 0 | 33 | 33 |
| North Leg | | | | | | |
| Approach | 0 | 5 | 5 | 0 | 16 | 16 |
| Departure | 0 | 48 | 48 | 0 | 33 | 33 |
| Total | 0 | 53 | 53 | 0 | 49 | 49 |
| South Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| East Leg | | | | | | |
| Approach | 0 | 48 | 48 | 0 | 33 | 33 |
| Departure | 0 | 5 | 5 | 0 | 16 | 16 |
| Total | 0 | 53 | 53 | 0 | 49 | 49 |
| West Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Approaches | | | | | | |
| Approach | 0 | 53 | 53 | 0 | 49 | 49 |
| Departure | 0 | 53 | 53 | 0 | 49 | 49 |
| Total | 0 | 106 | 106 | 0 | 98 | 98 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **8 Project Driveway 2/Behymer Avenue** | | | | | | |
| NBL | 0 | 0 | 0 | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 | 0 | 0 | 0 |
| NBR | 0 | 21 | 21 | 0 | 14 | 14 |
| SBL | 0 | 0 | 0 | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 | 0 | 0 | 0 |
| EBT | 226 | 17 | 243 | 237 | 55 | 292 |
| EBR | 0 | 5 | 5 | 0 | 16 | 16 |
| WBL | 0 | 0 | 0 | 0 | 0 | 0 |
| WBT | 288 | 23 | 311 | 288 | 22 | 310 |
| WBR | 0 | 0 | 0 | 0 | 0 | 0 |
| North Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| South Leg | | | | | | |
| Approach | 0 | 21 | 21 | 0 | 14 | 14 |
| Departure | 0 | 5 | 5 | 0 | 16 | 16 |
| Total | 0 | 26 | 26 | 0 | 30 | 30 |
| East Leg | | | | | | |
| Approach | 288 | 23 | 311 | 288 | 22 | 310 |
| Departure | 226 | 38 | 264 | 237 | 69 | 306 |
| Total | 514 | 61 | 575 | 525 | 91 | 616 |
| West Leg | | | | | | |
| Approach | 226 | 22 | 248 | 237 | 71 | 308 |
| Departure | 288 | 23 | 311 | 288 | 22 | 310 |
| Total | 514 | 45 | 559 | 525 | 93 | 618 |
| Total Approaches | | | | | | |
| Approach | 514 | 66 | 580 | 525 | 107 | 632 |
| Departure | 514 | 66 | 580 | 525 | 107 | 632 |
| Total | 1,028 | 132 | 1,160 | 1,050 | 214 | 1,264 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **9 Project Driveway 3/Behymer Avenue** | | | | | | |
| NBL | 0 | 0 | 0 | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 | 0 | 0 | 0 |
| NBR | 0 | 28 | 28 | 0 | 19 | 19 |
| SBL | 0 | 0 | 0 | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 | 0 | 0 | 0 |
| EBT | 226 | 28 | 254 | 237 | 38 | 275 |
| EBR | 0 | 10 | 10 | 0 | 31 | 31 |
| WBL | 0 | 22 | 22 | 0 | 71 | 71 |
| WBT | 288 | 23 | 311 | 288 | 22 | 310 |
| WBR | 0 | 0 | 0 | 0 | 0 | 0 |
| North Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| South Leg | | | | | | |
| Approach | 0 | 28 | 28 | 0 | 19 | 19 |
| Departure | 0 | 32 | 32 | 0 | 102 | 102 |
| Total | 0 | 60 | 60 | 0 | 121 | 121 |
| East Leg | | | | | | |
| Approach | 288 | 45 | 333 | 288 | 93 | 381 |
| Departure | 226 | 56 | 282 | 237 | 57 | 294 |
| Total | 514 | 101 | 615 | 525 | 150 | 675 |
| West Leg | | | | | | |
| Approach | 226 | 38 | 264 | 237 | 69 | 306 |
| Departure | 288 | 23 | 311 | 288 | 22 | 310 |
| Total | 514 | 61 | 575 | 525 | 91 | 616 |
| Total Approaches | | | | | | |
| Approach | 514 | 111 | 625 | 525 | 181 | 706 |
| Departure | 514 | 111 | 625 | 525 | 181 | 706 |
| Total | 1,028 | 222 | 1,250 | 1,050 | 362 | 1,412 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **10 Project Driveway 4/Behymer Avenue** | | | | | | |
| NBL | 0 | 0 | 0 | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 | 0 | 0 | 0 |
| NBR | 0 | 41 | 41 | 0 | 28 | 28 |
| SBL | 0 | 0 | 0 | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 | 0 | 0 | 0 |
| EBT | 226 | 48 | 274 | 237 | 33 | 270 |
| EBR | 0 | 7 | 7 | 0 | 24 | 24 |
| WBL | 0 | 0 | 0 | 0 | 0 | 0 |
| WBT | 288 | 45 | 333 | 288 | 93 | 381 |
| WBR | 0 | 0 | 0 | 0 | 0 | 0 |
| North Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| South Leg | | | | | | |
| Approach | 0 | 41 | 41 | 0 | 28 | 28 |
| Departure | 0 | 7 | 7 | 0 | 24 | 24 |
| Total | 0 | 48 | 48 | 0 | 52 | 52 |
| East Leg | | | | | | |
| Approach | 288 | 45 | 333 | 288 | 93 | 381 |
| Departure | 226 | 89 | 315 | 237 | 61 | 298 |
| Total | 514 | 134 | 648 | 525 | 154 | 679 |
| West Leg | | | | | | |
| Approach | 226 | 55 | 281 | 237 | 57 | 294 |
| Departure | 288 | 45 | 333 | 288 | 93 | 381 |
| Total | 514 | 100 | 614 | 525 | 150 | 675 |
| Total Approaches | | | | | | |
| Approach | 514 | 141 | 655 | 525 | 178 | 703 |
| Departure | 514 | 141 | 655 | 525 | 178 | 703 |
| Total | 1,028 | 282 | 1,310 | 1,050 | 356 | 1,406 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | AM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **1** | **Willow Avenue/Behymer Avenue** | | | |
| NBL | | 148 | 0 | 148 |
| NBT | | 723 | 0 | 723 |
| NBR | | 65 | 20 | 85 |
| SBL | | 77 | 2 | 79 |
| SBT | | 634 | 0 | 634 |
| SBR | | 54 | 0 | 54 |
| EBL | | 80 | 0 | 80 |
| EBT | | 141 | 1 | 142 |
| EBR | | 216 | 0 | 216 |
| WBL | | 77 | 58 | 135 |
| WBT | | 152 | 4 | 156 |
| WBR | | 150 | 7 | 157 |
| North Leg | | | | |
| | Approach | 765 | 2 | 767 |
| | Departure | 953 | 7 | 960 |
| | Total | 1,718 | 9 | 1,727 |
| South Leg | | | | |
| | Approach | 936 | 20 | 956 |
| | Departure | 927 | 58 | 985 |
| | Total | 1,863 | 78 | 1,941 |
| East Leg | | | | |
| | Approach | 379 | 69 | 448 |
| | Departure | 283 | 23 | 306 |
| | Total | 662 | 92 | 754 |
| West Leg | | | | |
| | Approach | 437 | 1 | 438 |
| | Departure | 354 | 4 | 358 |
| | Total | 791 | 5 | 796 |
| Total Approaches | | | | |
| | Approach | 2,517 | 92 | 2,609 |
| | Departure | 2,517 | 92 | 2,609 |
| | Total | 5,034 | 184 | 5,218 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | AM Peak Hour | | |
|---|---|---|---|
| | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **2 Willow Avenue/Perrin Avenue** | | | |
| NBL | 118 | 0 | 118 |
| NBT | 753 | 13 | 766 |
| NBR | 79 | 0 | 79 |
| SBL | 23 | 0 | 23 |
| SBT | 822 | 39 | 861 |
| SBR | 129 | 19 | 148 |
| EBL | 188 | 7 | 195 |
| EBT | 70 | 0 | 70 |
| EBR | 190 | 0 | 190 |
| WBL | 104 | 0 | 104 |
| WBT | 93 | 0 | 93 |
| WBR | 30 | 0 | 30 |
| North Leg | | | |
| Approach | 974 | 58 | 1,032 |
| Departure | 971 | 20 | 991 |
| Total | 1,945 | 78 | 2,023 |
| South Leg | | | |
| Approach | 950 | 13 | 963 |
| Departure | 1,116 | 39 | 1,155 |
| Total | 2,066 | 52 | 2,118 |
| East Leg | | | |
| Approach | 227 | 0 | 227 |
| Departure | 172 | 0 | 172 |
| Total | 399 | 0 | 399 |
| West Leg | | | |
| Approach | 448 | 7 | 455 |
| Departure | 340 | 19 | 359 |
| Total | 788 | 26 | 814 |
| Total Approaches | | | |
| Approach | 2,599 | 78 | 2,677 |
| Departure | 2,599 | 78 | 2,677 |
| Total | 5,198 | 156 | 5,354 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | AM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| 3 | **Peach Avenue/Behymer Avenue** | | | |
| NBL | | 30 | 48 | 78 |
| NBT | | 30 | 0 | 30 |
| NBR | | 15 | 0 | 15 |
| SBL | | 1 | 0 | 1 |
| SBT | | 23 | 0 | 23 |
| SBR | | 0 | 0 | 0 |
| EBL | | 0 | 0 | 0 |
| EBT | | 239 | 22 | 261 |
| EBR | | 23 | 2 | 25 |
| WBL | | 11 | 2 | 13 |
| WBT | | 368 | 21 | 389 |
| WBR | | 1 | 0 | 1 |
| North Leg | | | | |
| | Approach | 24 | 0 | 24 |
| | Departure | 31 | 0 | 31 |
| | Total | 55 | 0 | 55 |
| South Leg | | | | |
| | Approach | 75 | 48 | 123 |
| | Departure | 57 | 4 | 61 |
| | Total | 132 | 52 | 184 |
| East Leg | | | | |
| | Approach | 380 | 23 | 403 |
| | Departure | 255 | 22 | 277 |
| | Total | 635 | 45 | 680 |
| West Leg | | | | |
| | Approach | 262 | 24 | 286 |
| | Departure | 398 | 69 | 467 |
| | Total | 660 | 93 | 753 |
| Total Approaches | | | | |
| | Approach | 741 | 95 | 836 |
| | Departure | 741 | 95 | 836 |
| | Total | 1,482 | 190 | 1,672 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | AM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **4** | **Minnewawa Avenue/Behymer Avenue** | | | |
| NBL | | 88 | 20 | 108 |
| NBT | | 272 | 0 | 272 |
| NBR | | 19 | 0 | 19 |
| SBL | | 175 | 0 | 175 |
| SBT | | 235 | 0 | 235 |
| SBR | | 3 | 1 | 4 |
| EBL | | 4 | 4 | 8 |
| EBT | | 172 | 7 | 179 |
| EBR | | 81 | 58 | 139 |
| WBL | | 25 | 0 | 25 |
| WBT | | 232 | 2 | 234 |
| WBR | | 253 | 0 | 253 |
| EBU | | | 21 | 21 |
| North Leg | | | | |
| | Approach | 413 | 1 | 414 |
| | Departure | 529 | 4 | 533 |
| | Total | 942 | 5 | 947 |
| South Leg | | | | |
| | Approach | 379 | 20 | 399 |
| | Departure | 341 | 58 | 399 |
| | Total | 720 | 78 | 798 |
| East Leg | | | | |
| | Approach | 510 | 2 | 512 |
| | Departure | 366 | 7 | 373 |
| | Total | 876 | 9 | 885 |
| West Leg | | | | |
| | Approach | 257 | 90 | 347 |
| | Departure | 323 | 44 | 367 |
| | Total | 580 | 134 | 714 |
| Total Approaches | | | | |
| | Approach | 1,559 | 113 | 1,672 |
| | Departure | 1,559 | 113 | 1,672 |
| | Total | 3,118 | 226 | 3,344 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | AM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **5** | **Minnewawa Avenue/Perrin Avenue** | | | |
| NBL | | 61 | 0 | 61 |
| NBT | | 396 | 20 | 416 |
| NBR | | 14 | 0 | 14 |
| SBL | | 2 | 0 | 2 |
| SBT | | 428 | 58 | 486 |
| SBR | | 32 | 0 | 32 |
| EBL | | 34 | 0 | 34 |
| EBT | | 69 | 0 | 69 |
| EBR | | 67 | 0 | 67 |
| WBL | | 7 | 0 | 7 |
| WBT | | 74 | 0 | 74 |
| WBR | | 2 | 0 | 2 |
| North Leg | | | | |
| | Approach | 462 | 58 | 520 |
| | Departure | 432 | 20 | 452 |
| | Total | 894 | 78 | 972 |
| South Leg | | | | |
| | Approach | 471 | 20 | 491 |
| | Departure | 502 | 58 | 560 |
| | Total | 973 | 78 | 1,051 |
| East Leg | | | | |
| | Approach | 83 | 0 | 83 |
| | Departure | 85 | 0 | 85 |
| | Total | 168 | 0 | 168 |
| West Leg | | | | |
| | Approach | 170 | 0 | 170 |
| | Departure | 167 | 0 | 167 |
| | Total | 337 | 0 | 337 |
| Total Approaches | | | | |
| | Approach | 1,186 | 78 | 1,264 |
| | Departure | 1,186 | 78 | 1,264 |
| | Total | 2,372 | 156 | 2,528 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | AM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **6** | **Minnewawa Avenue/Shepherd Avenue** | | | |
| NBL | | 199 | 0 | 199 |
| NBT | | 307 | 10 | 317 |
| NBR | | 34 | 0 | 34 |
| SBL | | 174 | 30 | 204 |
| SBT | | 475 | 28 | 503 |
| SBR | | 143 | 0 | 143 |
| EBL | | 103 | 0 | 103 |
| EBT | | 374 | 0 | 374 |
| EBR | | 232 | 0 | 232 |
| WBL | | 32 | 0 | 32 |
| WBT | | 308 | 0 | 308 |
| WBR | | 191 | 11 | 202 |
| North Leg | | | | |
| | Approach | 792 | 58 | 850 |
| | Departure | 601 | 21 | 622 |
| | Total | 1,393 | 79 | 1,472 |
| South Leg | | | | |
| | Approach | 540 | 10 | 550 |
| | Departure | 739 | 28 | 767 |
| | Total | 1,279 | 38 | 1,317 |
| East Leg | | | | |
| | Approach | 531 | 11 | 542 |
| | Departure | 582 | 30 | 612 |
| | Total | 1,113 | 41 | 1,154 |
| West Leg | | | | |
| | Approach | 709 | 0 | 709 |
| | Departure | 650 | 0 | 650 |
| | Total | 1,359 | 0 | 1,359 |
| Total Approaches | | | | |
| | Approach | 2,572 | 79 | 2,651 |
| | Departure | 2,572 | 79 | 2,651 |
| | Total | 5,144 | 158 | 5,302 |

**Table D-2 - Near-Term Peak Hour Volume Summary**

| | | AM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **7** | **Peach Avenue/Project Driveway 1** | | | |
| NBL | | 0 | 0 | 0 |
| NBT | | 75 | 0 | 75 |
| NBR | | 0 | 0 | 0 |
| SBL | | 0 | 5 | 5 |
| SBT | | 57 | 0 | 57 |
| SBR | | 0 | 0 | 0 |
| EBL | | 0 | 0 | 0 |
| EBT | | 0 | 0 | 0 |
| EBR | | 0 | 0 | 0 |
| WBL | | 0 | 0 | 0 |
| WBT | | 0 | 0 | 0 |
| WBR | | 0 | 48 | 48 |
| North Leg | | | | |
| | Approach | 57 | 5 | 62 |
| | Departure | 75 | 48 | 123 |
| | Total | 132 | 53 | 185 |
| South Leg | | | | |
| | Approach | 75 | 0 | 75 |
| | Departure | 57 | 0 | 57 |
| | Total | 132 | 0 | 132 |
| East Leg | | | | |
| | Approach | 0 | 48 | 48 |
| | Departure | 0 | 5 | 5 |
| | Total | 0 | 53 | 53 |
| West Leg | | | | |
| | Approach | 0 | 0 | 0 |
| | Departure | 0 | 0 | 0 |
| | Total | 0 | 0 | 0 |
| Total Approaches | | | | |
| | Approach | 132 | 53 | 185 |
| | Departure | 132 | 53 | 185 |
| | Total | 264 | 106 | 370 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | AM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **8** | **Project Driveway 2/Behymer Avenue** | | | |
| NBL | | 0 | 0 | 0 |
| NBT | | 0 | 0 | 0 |
| NBR | | 0 | 21 | 21 |
| SBL | | 0 | 0 | 0 |
| SBT | | 0 | 0 | 0 |
| SBR | | 0 | 0 | 0 |
| EBL | | 0 | 0 | 0 |
| EBT | | 257 | 17 | 274 |
| EBR | | 0 | 5 | 5 |
| WBL | | 0 | 0 | 0 |
| WBT | | 323 | 23 | 346 |
| WBR | | 0 | 0 | 0 |
| North Leg | | | | |
| | Approach | 0 | 0 | 0 |
| | Departure | 0 | 0 | 0 |
| | Total | 0 | 0 | 0 |
| South Leg | | | | |
| | Approach | 0 | 21 | 21 |
| | Departure | 0 | 5 | 5 |
| | Total | 0 | 26 | 26 |
| East Leg | | | | |
| | Approach | 323 | 23 | 346 |
| | Departure | 257 | 38 | 295 |
| | Total | 580 | 61 | 641 |
| West Leg | | | | |
| | Approach | 257 | 22 | 279 |
| | Departure | 323 | 23 | 346 |
| | Total | 580 | 45 | 625 |
| Total Approaches | | | | |
| | Approach | 580 | 66 | 646 |
| | Departure | 580 | 66 | 646 |
| | Total | 1,160 | 132 | 1,292 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | AM Peak Hour | | |
|---|---|---|---|
| | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **9 Project Driveway 3/Behymer Avenue** | | | |
| NBL | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 |
| NBR | 0 | 28 | 28 |
| SBL | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 |
| EBT | 257 | 28 | 285 |
| EBR | 0 | 10 | 10 |
| WBL | 0 | 22 | 22 |
| WBT | 323 | 23 | 346 |
| WBR | 0 | 0 | 0 |
| North Leg | | | |
| Approach | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 |
| Total | 0 | 0 | 0 |
| South Leg | | | |
| Approach | 0 | 28 | 28 |
| Departure | 0 | 32 | 32 |
| Total | 0 | 60 | 60 |
| East Leg | | | |
| Approach | 323 | 45 | 368 |
| Departure | 257 | 56 | 313 |
| Total | 580 | 101 | 681 |
| West Leg | | | |
| Approach | 257 | 38 | 295 |
| Departure | 323 | 23 | 346 |
| Total | 580 | 61 | 641 |
| Total Approaches | | | |
| Approach | 580 | 111 | 691 |
| Departure | 580 | 111 | 691 |
| Total | 1,160 | 222 | 1,382 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | AM Peak Hour | | |
|---|---|---|---|
| | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **10 Project Driveway 4/Behymer Avenue** | | | |
| NBL | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 |
| NBR | 0 | 41 | 41 |
| SBL | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 |
| EBT | 257 | 48 | 305 |
| EBR | 0 | 7 | 7 |
| WBL | 0 | 0 | 0 |
| WBT | 323 | 45 | 368 |
| WBR | 0 | 0 | 0 |
| North Leg | | | |
| Approach | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 |
| Total | 0 | 0 | 0 |
| South Leg | | | |
| Approach | 0 | 41 | 41 |
| Departure | 0 | 7 | 7 |
| Total | 0 | 48 | 48 |
| East Leg | | | |
| Approach | 323 | 45 | 368 |
| Departure | 257 | 89 | 346 |
| Total | 580 | 134 | 714 |
| West Leg | | | |
| Approach | 257 | 55 | 312 |
| Departure | 323 | 45 | 368 |
| Total | 580 | 100 | 680 |
| Total Approaches | | | |
| Approach | 580 | 141 | 721 |
| Departure | 580 | 141 | 721 |
| Total | 1,160 | 282 | 1,442 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | PM Peak Hour | | |
|---|---|---|---|
| | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **1 Willow Avenue/Behymer Avenue** | | | |
| NBL | 174 | 0 | 174 |
| NBT | 768 | 0 | 768 |
| NBR | 112 | 66 | 178 |
| SBL | 114 | 8 | 122 |
| SBT | 599 | 0 | 599 |
| SBR | 40 | 0 | 40 |
| EBL | 21 | 0 | 21 |
| EBT | 125 | 5 | 130 |
| EBR | 179 | 0 | 179 |
| WBL | 111 | 39 | 150 |
| WBT | 157 | 3 | 160 |
| WBR | 137 | 5 | 142 |
| North Leg | | | |
| Approach | 753 | 8 | 761 |
| Departure | 926 | 5 | 931 |
| Total | 1,679 | 13 | 1,692 |
| South Leg | | | |
| Approach | 1,054 | 66 | 1,120 |
| Departure | 889 | 39 | 928 |
| Total | 1,943 | 105 | 2,048 |
| East Leg | | | |
| Approach | 405 | 47 | 452 |
| Departure | 351 | 79 | 430 |
| Total | 756 | 126 | 882 |
| West Leg | | | |
| Approach | 325 | 5 | 330 |
| Departure | 371 | 3 | 374 |
| Total | 696 | 8 | 704 |
| Total Approaches | | | |
| Approach | 2,537 | 126 | 2,663 |
| Departure | 2,537 | 126 | 2,663 |
| Total | 5,074 | 252 | 5,326 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | PM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **2** | **Willow Avenue/Perrin Avenue** | | | |
| NBL | | 236 | 0 | 236 |
| NBT | | 933 | 44 | 977 |
| NBR | | 152 | 0 | 152 |
| SBL | | 55 | 0 | 55 |
| SBT | | 750 | 26 | 776 |
| SBR | | 126 | 13 | 139 |
| EBL | | 153 | 22 | 175 |
| EBT | | 123 | 0 | 123 |
| EBR | | 232 | 0 | 232 |
| WBL | | 145 | 0 | 145 |
| WBT | | 114 | 0 | 114 |
| WBR | | 54 | 0 | 54 |
| North Leg | | | | |
| | Approach | 931 | 39 | 970 |
| | Departure | 1,140 | 66 | 1,206 |
| | Total | 2,071 | 105 | 2,176 |
| South Leg | | | | |
| | Approach | 1,321 | 44 | 1,365 |
| | Departure | 1,127 | 26 | 1,153 |
| | Total | 2,448 | 70 | 2,518 |
| East Leg | | | | |
| | Approach | 313 | 0 | 313 |
| | Departure | 330 | 0 | 330 |
| | Total | 643 | 0 | 643 |
| West Leg | | | | |
| | Approach | 508 | 22 | 530 |
| | Departure | 476 | 13 | 489 |
| | Total | 984 | 35 | 1,019 |
| Total Approaches | | | | |
| | Approach | 3,073 | 105 | 3,178 |
| | Departure | 3,073 | 105 | 3,178 |
| | Total | 6,146 | 210 | 6,356 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | PM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **3** | **Peach Avenue/Behymer Avenue** | | | |
| NBL | | 37 | 33 | 70 |
| NBT | | 37 | 0 | 37 |
| NBR | | 18 | 0 | 18 |
| SBL | | 0 | 0 | 0 |
| SBT | | 39 | 0 | 39 |
| SBR | | 1 | 0 | 1 |
| EBL | | 1 | 0 | 1 |
| EBT | | 270 | 71 | 341 |
| EBR | | 39 | 8 | 47 |
| WBL | | 19 | 8 | 27 |
| WBT | | 318 | 14 | 332 |
| WBR | | 0 | 0 | 0 |
| North Leg | | | | |
| | Approach | 40 | 0 | 40 |
| | Departure | 38 | 0 | 38 |
| | Total | 78 | 0 | 78 |
| South Leg | | | | |
| | Approach | 92 | 33 | 125 |
| | Departure | 97 | 16 | 113 |
| | Total | 189 | 49 | 238 |
| East Leg | | | | |
| | Approach | 337 | 22 | 359 |
| | Departure | 288 | 71 | 359 |
| | Total | 625 | 93 | 718 |
| West Leg | | | | |
| | Approach | 310 | 79 | 389 |
| | Departure | 356 | 47 | 403 |
| | Total | 666 | 126 | 792 |
| Total Approaches | | | | |
| | Approach | 779 | 134 | 913 |
| | Departure | 779 | 134 | 913 |
| | Total | 1,558 | 268 | 1,826 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | PM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **4** | **Minnewawa Avenue/Behymer Avenue** | | | |
| NBL | | 84 | 66 | 150 |
| NBT | | 300 | 0 | 300 |
| NBR | | 30 | 0 | 30 |
| SBL | | 187 | 0 | 187 |
| SBT | | 213 | 0 | 213 |
| SBR | | 2 | 5 | 7 |
| EBL | | 2 | 3 | 5 |
| EBT | | 212 | 5 | 217 |
| EBR | | 72 | 39 | 111 |
| WBL | | 15 | 0 | 15 |
| WBT | | 247 | 8 | 255 |
| WBR | | 179 | 0 | 179 |
| EBU | | | 14 | 14 |
| North Leg | | | | |
| | Approach | 402 | 5 | 407 |
| | Departure | 481 | 3 | 484 |
| | Total | 883 | 8 | 891 |
| South Leg | | | | |
| | Approach | 414 | 66 | 480 |
| | Departure | 300 | 39 | 339 |
| | Total | 714 | 105 | 819 |
| East Leg | | | | |
| | Approach | 441 | 8 | 449 |
| | Departure | 429 | 5 | 434 |
| | Total | 870 | 13 | 883 |
| West Leg | | | | |
| | Approach | 286 | 61 | 347 |
| | Departure | 333 | 93 | 426 |
| | Total | 619 | 154 | 773 |
| Total Approaches | | | | |
| | Approach | 1,543 | 140 | 1,683 |
| | Departure | 1,543 | 140 | 1,683 |
| | Total | 3,086 | 280 | 3,366 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | PM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| 5 | **Minnewawa Avenue/Perrin Avenue** | | | |
| NBL | | 88 | 0 | 88 |
| NBT | | 463 | 66 | 529 |
| NBR | | 7 | 0 | 7 |
| SBL | | 0 | 0 | 0 |
| SBT | | 376 | 39 | 415 |
| SBR | | 38 | 0 | 38 |
| EBL | | 37 | 0 | 37 |
| EBT | | 97 | 0 | 97 |
| EBR | | 91 | 0 | 91 |
| WBL | | 14 | 0 | 14 |
| WBT | | 96 | 0 | 96 |
| WBR | | 2 | 0 | 2 |
| North Leg | | | | |
| | Approach | 414 | 39 | 453 |
| | Departure | 502 | 66 | 568 |
| | Total | 916 | 105 | 1,021 |
| South Leg | | | | |
| | Approach | 558 | 66 | 624 |
| | Departure | 481 | 39 | 520 |
| | Total | 1,039 | 105 | 1,144 |
| East Leg | | | | |
| | Approach | 112 | 0 | 112 |
| | Departure | 104 | 0 | 104 |
| | Total | 216 | 0 | 216 |
| West Leg | | | | |
| | Approach | 225 | 0 | 225 |
| | Departure | 222 | 0 | 222 |
| | Total | 447 | 0 | 447 |
| Total Approaches | | | | |
| | Approach | 1,309 | 105 | 1,414 |
| | Departure | 1,309 | 105 | 1,414 |
| | Total | 2,618 | 210 | 2,828 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | PM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **6** | **Minnewawa Avenue/Shepherd Avenue** | | | |
| NBL | | 265 | 0 | 265 |
| NBT | | 546 | 31 | 577 |
| NBR | | 48 | 0 | 48 |
| SBL | | 138 | 20 | 158 |
| SBT | | 435 | 19 | 454 |
| SBR | | 152 | 0 | 152 |
| EBL | | 182 | 0 | 182 |
| EBT | | 368 | 0 | 368 |
| EBR | | 239 | 0 | 239 |
| WBL | | 30 | 0 | 30 |
| WBT | | 316 | 0 | 316 |
| WBR | | 193 | 35 | 228 |
| North Leg | | | | |
| | Approach | 725 | 39 | 764 |
| | Departure | 921 | 66 | 987 |
| | Total | 1,646 | 105 | 1,751 |
| South Leg | | | | |
| | Approach | 859 | 31 | 890 |
| | Departure | 704 | 19 | 723 |
| | Total | 1,563 | 50 | 1,613 |
| East Leg | | | | |
| | Approach | 539 | 35 | 574 |
| | Departure | 554 | 20 | 574 |
| | Total | 1,093 | 55 | 1,148 |
| West Leg | | | | |
| | Approach | 789 | 0 | 789 |
| | Departure | 733 | 0 | 733 |
| | Total | 1,522 | 0 | 1,522 |
| Total Approaches | | | | |
| | Approach | 2,912 | 105 | 3,017 |
| | Departure | 2,912 | 105 | 3,017 |
| | Total | 5,824 | 210 | 6,034 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | PM Peak Hour | | |
|---|---|---|---|
| | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **7 Peach Avenue/Project Driveway 1** | | | |
| N8L | 0 | 0 | 0 |
| N8T | 91 | 0 | 91 |
| NBR | 0 | 0 | 0 |
| SBL | 0 | 16 | 16 |
| SBT | 97 | 0 | 97 |
| S8R | 0 | 0 | 0 |
| E8L | 0 | 0 | 0 |
| E8T | 0 | 0 | 0 |
| EBR | 0 | 0 | 0 |
| W8L | 0 | 0 | 0 |
| W8T | 0 | 0 | 0 |
| W8R | 0 | 33 | 33 |
| North Leg | | | |
| Approach | 97 | 16 | 113 |
| Departure | 91 | 33 | 124 |
| Total | 188 | 49 | 237 |
| South Leg | | | |
| Approach | 91 | 0 | 91 |
| Departure | 97 | 0 | 97 |
| Total | 188 | 0 | 188 |
| East Leg | | | |
| Approach | 0 | 33 | 33 |
| Departure | 0 | 16 | 16 |
| Total | 0 | 49 | 49 |
| West Leg | | | |
| Approach | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 |
| Total | 0 | 0 | 0 |
| Total Approaches | | | |
| Approach | 188 | 49 | 237 |
| Departure | 188 | 49 | 237 |
| Total | 376 | 98 | 474 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | PM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **8** | **Project Driveway 2/Behymer Avenue** | | | |
| NBL | | 0 | 0 | 0 |
| NBT | | 0 | 0 | 0 |
| NBR | | 0 | 14 | 14 |
| SBL | | 0 | 0 | 0 |
| SBT | | 0 | 0 | 0 |
| SBR | | 0 | 0 | 0 |
| EBL | | 0 | 0 | 0 |
| EBT | | 286 | 55 | 341 |
| EBR | | 0 | 16 | 16 |
| WBL | | 0 | 0 | 0 |
| WBT | | 333 | 22 | 355 |
| WBR | | 0 | 0 | 0 |
| North Leg | | | | |
| | Approach | 0 | 0 | 0 |
| | Departure | 0 | 0 | 0 |
| | Total | 0 | 0 | 0 |
| South Leg | | | | |
| | Approach | 0 | 14 | 14 |
| | Departure | 0 | 16 | 16 |
| | Total | 0 | 30 | 30 |
| East Leg | | | | |
| | Approach | 333 | 22 | 355 |
| | Departure | 286 | 69 | 355 |
| | Total | 619 | 91 | 710 |
| West Leg | | | | |
| | Approach | 286 | 71 | 357 |
| | Departure | 333 | 22 | 355 |
| | Total | 619 | 93 | 712 |
| Total Approaches | | | | |
| | Approach | 619 | 107 | 726 |
| | Departure | 619 | 107 | 726 |
| | Total | 1,238 | 214 | 1,452 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | PM Peak Hour | | |
|---|---|---|---|
| | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **9 Project Driveway 3/Behymer Avenue** | | | |
| NBL | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 |
| NBR | 0 | 19 | 19 |
| SBL | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 |
| EBT | 286 | 38 | 324 |
| EBR | 0 | 31 | 31 |
| WBL | 0 | 71 | 71 |
| WBT | 333 | 22 | 355 |
| WBR | 0 | 0 | 0 |
| North Leg | | | |
| Approach | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 |
| Total | 0 | 0 | 0 |
| South Leg | | | |
| Approach | 0 | 19 | 19 |
| Departure | 0 | 102 | 102 |
| Total | 0 | 121 | 121 |
| East Leg | | | |
| Approach | 333 | 93 | 426 |
| Departure | 286 | 57 | 343 |
| Total | 619 | 150 | 769 |
| West Leg | | | |
| Approach | 286 | 69 | 355 |
| Departure | 333 | 22 | 355 |
| Total | 619 | 91 | 710 |
| Total Approaches | | | |
| Approach | 619 | 181 | 800 |
| Departure | 619 | 181 | 800 |
| Total | 1,238 | 362 | 1,600 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | PM Peak Hour | | |
|---|---|---|---|
| | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **10 Project Driveway 4/Behymer Avenue** | | | |
| NBL | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 |
| NBR | 0 | 28 | 28 |
| SBL | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 |
| EBT | 286 | 33 | 319 |
| EBR | 0 | 24 | 24 |
| WBL | 0 | 0 | 0 |
| WBT | 333 | 93 | 426 |
| WBR | 0 | 0 | 0 |
| North Leg | | | |
| Approach | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 |
| Total | 0 | 0 | 0 |
| South Leg | | | |
| Approach | 0 | 28 | 28 |
| Departure | 0 | 24 | 24 |
| Total | 0 | 52 | 52 |
| East Leg | | | |
| Approach | 333 | 93 | 426 |
| Departure | 286 | 61 | 347 |
| Total | 619 | 154 | 773 |
| West Leg | | | |
| Approach | 286 | 57 | 343 |
| Departure | 333 | 93 | 426 |
| Total | 619 | 150 | 769 |
| Total Approaches | | | |
| Approach | 619 | 178 | 797 |
| Departure | 619 | 178 | 797 |
| Total | 1,238 | 356 | 1,594 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **1 Willow Avenue/Behymer Avenue** | | | | | | |
| NBL | 193 | 0 | 193 | 215 | 0 | 215 |
| NBT | 784 | 0 | 784 | 889 | 0 | 889 |
| NBR | 265 | 0 | 265 | 670 | 0 | 670 |
| SBL | 148 | 2 | 150 | 244 | 8 | 252 |
| SBT | 913 | 0 | 913 | 655 | 0 | 655 |
| SBR | 57 | 0 | 57 | 42 | 0 | 42 |
| EBL | 84 | 0 | 84 | 22 | 0 | 22 |
| EBT | 222 | 1 | 223 | 254 | 5 | 259 |
| EBR | 267 | 0 | 267 | 237 | 0 | 237 |
| WBL | 547 | 0 | 547 | 526 | 0 | 526 |
| WBT | 289 | 4 | 293 | 252 | 3 | 255 |
| WBR | 330 | 7 | 337 | 254 | 5 | 259 |
| North Leg | | | | | | |
| Approach | 1,118 | 2 | 1,120 | 941 | 8 | 949 |
| Departure | 1,198 | 7 | 1,205 | 1,165 | 5 | 1,170 |
| Total | 2,316 | 9 | 2,325 | 2,106 | 13 | 2,119 |
| South Leg | | | | | | |
| Approach | 1,242 | 0 | 1,242 | 1,774 | 0 | 1,774 |
| Departure | 1,727 | 0 | 1,727 | 1,418 | 0 | 1,418 |
| Total | 2,969 | 0 | 2,969 | 3,192 | 0 | 3,192 |
| East Leg | | | | | | |
| Approach | 1,166 | 11 | 1,177 | 1,032 | 8 | 1,040 |
| Departure | 635 | 3 | 638 | 1,168 | 13 | 1,181 |
| Total | 1,801 | 14 | 1,815 | 2,200 | 21 | 2,221 |
| West Leg | | | | | | |
| Approach | 573 | 1 | 574 | 513 | 5 | 518 |
| Departure | 539 | 4 | 543 | 509 | 3 | 512 |
| Total | 1,112 | 5 | 1,117 | 1,022 | 8 | 1,030 |
| Total Approaches | | | | | | |
| Approach | 4,099 | 14 | 4,113 | 4,260 | 21 | 4,281 |
| Departure | 4,099 | 14 | 4,113 | 4,260 | 21 | 4,281 |
| Total | 8,198 | 28 | 8,226 | 8,520 | 42 | 8,562 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **2 Willow Avenue/Perrin Avenue** | | | | | | |
| NBL | 160 | 0 | 160 | 273 | 0 | 273 |
| N8T | 861 | 0 | 861 | 1,373 | 0 | 1,373 |
| N8R | 134 | 0 | 134 | 280 | 0 | 280 |
| S8L | 45 | 0 | 45 | 120 | 0 | 120 |
| S8T | 1,252 | 0 | 1,252 | 908 | 0 | 908 |
| S8R | 449 | 0 | 449 | 401 | 0 | 401 |
| E8L | 278 | 0 | 278 | 449 | 0 | 449 |
| E8T | 119 | 7 | 126 | 233 | 22 | 255 |
| E8R | 209 | 0 | 209 | 333 | 0 | 333 |
| W8L | 197 | 0 | 197 | 246 | 0 | 246 |
| W8T | 181 | 19 | 200 | 197 | 13 | 210 |
| W8R | 76 | 0 | 76 | 107 | 0 | 107 |
| North Leg | | | | | | |
| Approach | 1,746 | 0 | 1,746 | 1,429 | 0 | 1,429 |
| Departure | 1,215 | 0 | 1,215 | 1,929 | 0 | 1,929 |
| Total | 2,961 | 0 | 2,961 | 3,358 | 0 | 3,358 |
| South Leg | | | | | | |
| Approach | 1,155 | 0 | 1,155 | 1,926 | 0 | 1,926 |
| Departure | 1,658 | 0 | 1,658 | 1,487 | 0 | 1,487 |
| Total | 2,813 | 0 | 2,813 | 3,413 | 0 | 3,413 |
| East Leg | | | | | | |
| Approach | 454 | 19 | 473 | 550 | 13 | 563 |
| Departure | 298 | 7 | 305 | 633 | 22 | 655 |
| Total | 752 | 26 | 778 | 1,183 | 35 | 1,218 |
| West Leg | | | | | | |
| Approach | 606 | 7 | 613 | 1,015 | 22 | 1,037 |
| Departure | 790 | 19 | 809 | 871 | 13 | 884 |
| Total | 1,396 | 26 | 1,422 | 1,886 | 35 | 1,921 |
| Total Approaches | | | | | | |
| Approach | 3,961 | 26 | 3,987 | 4,920 | 35 | 4,955 |
| Departure | 3,961 | 26 | 3,987 | 4,920 | 35 | 4,955 |
| Total | 7,922 | 52 | 7,974 | 9,840 | 70 | 9,910 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| 3 Peach Avenue/Behymer Avenue | | | | | | |
| NBL | 62 | 8 | 70 | 95 | 6 | 101 |
| NBT | 56 | 0 | 56 | 74 | 0 | 74 |
| NBR | 35 | 1 | 36 | 54 | 5 | 59 |
| SBL | 36 | 0 | 36 | 10 | 0 | 10 |
| SBT | 47 | 0 | 47 | 75 | 0 | 75 |
| SBR | 1 | 0 | 1 | 1 | 0 | 1 |
| EBL | 0 | 0 | 0 | 1 | 0 | 1 |
| EBT | 309 | 3 | 312 | 772 | 11 | 783 |
| EBR | 60 | 0 | 60 | 83 | 2 | 85 |
| WBL | 39 | 6 | 45 | 48 | 11 | 59 |
| WBT | 961 | 3 | 964 | 620 | 2 | 622 |
| WBR | 7 | 0 | 7 | 36 | 0 | 36 |
| North Leg | | | | | | |
| Approach | 84 | 0 | 84 | 86 | 0 | 86 |
| Departure | 63 | 0 | 63 | 111 | 0 | 111 |
| Total | 147 | 0 | 147 | 197 | 0 | 197 |
| South Leg | | | | | | |
| Approach | 153 | 9 | 162 | 223 | 11 | 234 |
| Departure | 146 | 6 | 152 | 206 | 13 | 219 |
| Total | 299 | 15 | 314 | 429 | 24 | 453 |
| East Leg | | | | | | |
| Approach | 1,007 | 9 | 1,016 | 704 | 13 | 717 |
| Departure | 380 | 4 | 384 | 836 | 16 | 852 |
| Total | 1,387 | 13 | 1,400 | 1,540 | 29 | 1,569 |
| West Leg | | | | | | |
| Approach | 369 | 3 | 372 | 856 | 13 | 869 |
| Departure | 1,024 | 11 | 1,035 | 716 | 8 | 724 |
| Total | 1,393 | 14 | 1,407 | 1,572 | 21 | 1,593 |
| Total Approaches | | | | | | |
| Approach | 1,613 | 21 | 1,634 | 1,869 | 37 | 1,906 |
| Departure | 1,613 | 21 | 1,634 | 1,869 | 37 | 1,906 |
| Total | 3,226 | 42 | 3,268 | 3,738 | 74 | 3,812 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **4 Minnewawa Avenue/Behymer Avenue** | | | | | | |
| N8L | 177 | 10 | 187 | 229 | 31 | 260 |
| NBT | 317 | 0 | 317 | 628 | 0 | 628 |
| N8R | 35 | 0 | 35 | 64 | 0 | 64 |
| S8L | 250 | 0 | 250 | 226 | 0 | 226 |
| S8T | 544 | 0 | 544 | 310 | 0 | 310 |
| SBR | 23 | 1 | 24 | 10 | 5 | 15 |
| EBL | 12 | 4 | 16 | 14 | 3 | 17 |
| EBT | 222 | 37 | 259 | 472 | 25 | 497 |
| EBR | 153 | 28 | 181 | 161 | 19 | 180 |
| WBL | 63 | 0 | 63 | 35 | 0 | 35 |
| WBT | 512 | 13 | 525 | 463 | 42 | 505 |
| WBR | 279 | 0 | 279 | 223 | 0 | 223 |
| E8U | | 7 | 7 | | 5 | 5 |
| North Leg | | | | | | |
| Approach | 817 | 1 | 818 | 546 | 5 | 551 |
| Departure | 608 | 4 | 612 | 865 | 3 | 868 |
| Total | 1,425 | 5 | 1,430 | 1,411 | 8 | 1,419 |
| South Leg | | | | | | |
| Approach | 529 | 10 | 539 | 921 | 31 | 952 |
| Departure | 760 | 28 | 788 | 506 | 19 | 525 |
| Total | 1,289 | 38 | 1,327 | 1,427 | 50 | 1,477 |
| East Leg | | | | | | |
| Approach | 854 | 13 | 867 | 721 | 42 | 763 |
| Departure | 507 | 37 | 544 | 762 | 25 | 787 |
| Total | 1,361 | 50 | 1,411 | 1,483 | 67 | 1,550 |
| West Leg | | | | | | |
| Approach | 387 | 76 | 463 | 647 | 52 | 699 |
| Departure | 712 | 31 | 743 | 702 | 83 | 785 |
| Total | 1,099 | 107 | 1,206 | 1,349 | 135 | 1,484 |
| Total Approaches | | | | | | |
| Approach | 2,587 | 100 | 2,687 | 2,835 | 130 | 2,965 |
| Departure | 2,587 | 100 | 2,687 | 2,835 | 130 | 2,965 |
| Total | 5,174 | 200 | 5,374 | 5,670 | 260 | 5,930 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **5 Minnewawa Avenue/Perrin Avenue** | | | | | | |
| NBL | 96 | 0 | 96 | 161 | 0 | 161 |
| NBT | 523 | 10 | 533 | 1,069 | 31 | 1,100 |
| NBR | 18 | 0 | 18 | 18 | 0 | 18 |
| SBL | 3 | 0 | 3 | 4 | 0 | 4 |
| SBT | 962 | 28 | 990 | 597 | 19 | 616 |
| SBR | 140 | 0 | 140 | 111 | 0 | 111 |
| EBL | 85 | 0 | 85 | 129 | 0 | 129 |
| EBT | 129 | 0 | 129 | 179 | 0 | 179 |
| EBR | 121 | 0 | 121 | 149 | 0 | 149 |
| WBL | 22 | 0 | 22 | 23 | 0 | 23 |
| WBT | 144 | 0 | 144 | 177 | 0 | 177 |
| WBR | 4 | 0 | 4 | 5 | 0 | 5 |
| North Leg | | | | | | |
| Approach | 1,105 | 28 | 1,133 | 712 | 19 | 731 |
| Departure | 612 | 10 | 622 | 1,203 | 31 | 1,234 |
| Total | 1,717 | 38 | 1,755 | 1,915 | 50 | 1,965 |
| South Leg | | | | | | |
| Approach | 637 | 10 | 647 | 1,248 | 31 | 1,279 |
| Departure | 1,105 | 28 | 1,133 | 769 | 19 | 788 |
| Total | 1,742 | 38 | 1,780 | 2,017 | 50 | 2,067 |
| East Leg | | | | | | |
| Approach | 170 | 0 | 170 | 205 | 0 | 205 |
| Departure | 150 | 0 | 150 | 201 | 0 | 201 |
| Total | 320 | 0 | 320 | 406 | 0 | 406 |
| West Leg | | | | | | |
| Approach | 335 | 0 | 335 | 457 | 0 | 457 |
| Departure | 380 | 0 | 380 | 449 | 0 | 449 |
| Total | 715 | 0 | 715 | 906 | 0 | 906 |
| Total Approaches | | | | | | |
| Approach | 2,247 | 38 | 2,285 | 2,622 | 50 | 2,672 |
| Departure | 2,247 | 38 | 2,285 | 2,622 | 50 | 2,672 |
| Total | 4,494 | 76 | 4,570 | 5,244 | 100 | 5,344 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **6 Minnewawa Avenue/Shepherd Avenue** | | | | | | |
| NBL | 260 | 0 | 260 | 473 | 0 | 473 |
| N8T | 387 | 10 | 397 | 1,066 | 31 | 1,097 |
| NBR | 51 | 0 | 51 | 90 | 0 | 90 |
| S8L | 297 | 0 | 297 | 199 | 0 | 199 |
| SBT | 966 | 28 | 994 | 673 | 19 | 692 |
| S8R | 221 | 0 | 221 | 230 | 0 | 230 |
| E8L | 150 | 0 | 150 | 322 | 0 | 322 |
| E8T | 564 | 0 | 564 | 511 | 0 | 511 |
| EBR | 508 | 0 | 508 | 441 | 0 | 441 |
| WBL | 106 | 0 | 106 | 48 | 0 | 48 |
| WBT | 503 | 0 | 503 | 383 | 0 | 383 |
| W8R | 322 | 0 | 322 | 329 | 0 | 329 |
| North Leg | | | | | | |
| Approach | 1,484 | 28 | 1,512 | 1,102 | 19 | 1,121 |
| Departure | 859 | 10 | 869 | 1,717 | 31 | 1,748 |
| Total | 2,343 | 38 | 2,381 | 2,819 | 50 | 2,869 |
| South Leg | | | | | | |
| Approach | 698 | 10 | 708 | 1,629 | 31 | 1,660 |
| Departure | 1,580 | 28 | 1,608 | 1,162 | 19 | 1,181 |
| Total | 2,278 | 38 | 2,316 | 2,791 | 50 | 2,841 |
| East Leg | | | | | | |
| Approach | 931 | 0 | 931 | 760 | 0 | 760 |
| Departure | 912 | 0 | 912 | 800 | 0 | 800 |
| Total | 1,843 | 0 | 1,843 | 1,560 | 0 | 1,560 |
| West Leg | | | | | | |
| Approach | 1,222 | 0 | 1,222 | 1,274 | 0 | 1,274 |
| Departure | 984 | 0 | 984 | 1,086 | 0 | 1,086 |
| Total | 2,206 | 0 | 2,206 | 2,360 | 0 | 2,360 |
| Total Approaches | | | | | | |
| Approach | 4,335 | 38 | 4,373 | 4,765 | 50 | 4,815 |
| Departure | 4,335 | 38 | 4,373 | 4,765 | 50 | 4,815 |
| Total | 8,670 | 76 | 8,746 | 9,530 | 100 | 9,630 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **7 Peach Avenue/Project Driveway 1** | | | | | | |
| NBL | 0 | 0 | 0 | 0 | 0 | 0 |
| NBT | 147 | 1 | 148 | 170 | 5 | 175 |
| NBR | 0 | 19 | 19 | 0 | 61 | 61 |
| SBL | 0 | 3 | 3 | 0 | 9 | 9 |
| SBT | 108 | 4 | 112 | 194 | 3 | 197 |
| SBR | 0 | 0 | 0 | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 | 0 | 0 | 0 |
| EBT | 0 | 0 | 0 | 0 | 0 | 0 |
| EBR | 0 | 0 | 0 | 0 | 0 | 0 |
| WBL | 0 | 54 | 54 | 0 | 36 | 36 |
| WBT | 0 | 0 | 0 | 0 | 0 | 0 |
| WBR | 0 | 8 | 8 | 0 | 6 | 6 |
| North Leg | | | | | | |
| Approach | 108 | 7 | 115 | 194 | 12 | 206 |
| Departure | 147 | 9 | 156 | 170 | 11 | 181 |
| Total | 255 | 16 | 271 | 364 | 23 | 387 |
| South Leg | | | | | | |
| Approach | 147 | 20 | 167 | 170 | 66 | 236 |
| Departure | 108 | 58 | 166 | 194 | 39 | 233 |
| Total | 255 | 78 | 333 | 364 | 105 | 469 |
| East Leg | | | | | | |
| Approach | 0 | 62 | 62 | 0 | 42 | 42 |
| Departure | 0 | 22 | 22 | 0 | 70 | 70 |
| Total | 0 | 84 | 84 | 0 | 112 | 112 |
| West Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Approaches | | | | | | |
| Approach | 255 | 89 | 344 | 364 | 120 | 484 |
| Departure | 255 | 89 | 344 | 364 | 120 | 484 |
| Total | 510 | 178 | 688 | 728 | 240 | 968 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **8 Project Driveway 2/Behymer Avenue** | | | | | | |
| NBL | 0 | 0 | 0 | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 | 0 | 0 | 0 |
| NBR | 0 | 21 | 21 | 0 | 14 | 14 |
| SBL | 0 | 0 | 0 | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 | 0 | 0 | 0 |
| EBT | 310 | 4 | 314 | 375 | 14 | 389 |
| EBR | 0 | 0 | 0 | 0 | 2 | 2 |
| WBL | 0 | 0 | 0 | 0 | 0 | 0 |
| WBT | 390 | 9 | 399 | 414 | 13 | 427 |
| WBR | 0 | 0 | 0 | 0 | 0 | 0 |
| North Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| South Leg | | | | | | |
| Approach | 0 | 21 | 21 | 0 | 14 | 14 |
| Departure | 0 | 0 | 0 | 0 | 2 | 2 |
| Total | 0 | 21 | 21 | 0 | 16 | 16 |
| East Leg | | | | | | |
| Approach | 390 | 9 | 399 | 414 | 13 | 427 |
| Departure | 310 | 25 | 335 | 375 | 28 | 403 |
| Total | 700 | 34 | 734 | 789 | 41 | 830 |
| West Leg | | | | | | |
| Approach | 310 | 4 | 314 | 375 | 16 | 391 |
| Departure | 390 | 9 | 399 | 414 | 13 | 427 |
| Total | 700 | 13 | 713 | 789 | 29 | 818 |
| Total Approaches | | | | | | |
| Approach | 700 | 34 | 734 | 789 | 43 | 832 |
| Departure | 700 | 34 | 734 | 789 | 43 | 832 |
| Total | 1,400 | 68 | 1,468 | 1,578 | 86 | 1,664 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **9 Project Driveway 3/Behymer Avenue** | | | | | | |
| NBL | 0 | 0 | 0 | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 | 0 | 0 | 0 |
| NBR | 0 | 28 | 28 | 0 | 19 | 19 |
| SBL | 0 | 0 | 0 | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 | 0 | 0 | 0 |
| EBT | 310 | 23 | 333 | 375 | 22 | 397 |
| EBR | 0 | 2 | 2 | 0 | 6 | 6 |
| WBL | 0 | 22 | 22 | 0 | 71 | 71 |
| WBT | 390 | 9 | 399 | 414 | 13 | 427 |
| WBR | 0 | 0 | 0 | 0 | 0 | 0 |
| North Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| South Leg | | | | | | |
| Approach | 0 | 28 | 28 | 0 | 19 | 19 |
| Departure | 0 | 24 | 24 | 0 | 77 | 77 |
| Total | 0 | 52 | 52 | 0 | 96 | 96 |
| East Leg | | | | | | |
| Approach | 390 | 31 | 421 | 414 | 84 | 498 |
| Departure | 310 | 51 | 361 | 375 | 41 | 416 |
| Total | 700 | 82 | 782 | 789 | 125 | 914 |
| West Leg | | | | | | |
| Approach | 310 | 25 | 335 | 375 | 28 | 403 |
| Departure | 390 | 9 | 399 | 414 | 13 | 427 |
| Total | 700 | 34 | 734 | 789 | 41 | 830 |
| Total Approaches | | | | | | |
| Approach | 700 | 84 | 784 | 789 | 131 | 920 |
| Departure | 700 | 84 | 784 | 789 | 131 | 920 |
| Total | 1,400 | 168 | 1,568 | 1,578 | 262 | 1,840 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **10 Project Driveway 4/Behymer Avenue** | | | | | | |
| NBL | 0 | 0 | 0 | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 | 0 | 0 | 0 |
| NBR | 0 | 28 | 28 | 0 | 19 | 19 |
| SBL | 0 | 0 | 0 | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 | 0 | 0 | 0 |
| EBT | 310 | 48 | 358 | 375 | 33 | 408 |
| EBR | 0 | 2 | 2 | 0 | 8 | 8 |
| WBL | 0 | 0 | 0 | 0 | 0 | 0 |
| WBT | 390 | 31 | 421 | 414 | 84 | 498 |
| WBR | 0 | 0 | 0 | 0 | 0 | 0 |
| North Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| South Leg | | | | | | |
| Approach | 0 | 28 | 28 | 0 | 19 | 19 |
| Departure | 0 | 2 | 2 | 0 | 8 | 8 |
| Total | 0 | 30 | 30 | 0 | 27 | 27 |
| East Leg | | | | | | |
| Approach | 390 | 31 | 421 | 414 | 84 | 498 |
| Departure | 310 | 76 | 386 | 375 | 52 | 427 |
| Total | 700 | 107 | 807 | 789 | 136 | 925 |
| West Leg | | | | | | |
| Approach | 310 | 50 | 360 | 375 | 41 | 416 |
| Departure | 390 | 31 | 421 | 414 | 84 | 498 |
| Total | 700 | 81 | 781 | 789 | 125 | 914 |
| Total Approaches | | | | | | |
| Approach | 700 | 109 | 809 | 789 | 144 | 933 |
| Departure | 700 | 109 | 809 | 789 | 144 | 933 |
| Total | 1,400 | 218 | 1,618 | 1,578 | 288 | 1,866 |

# APPENDIX E

# LEVEL OF SERVICE WORKSHEETS

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Cumulative Year NP_AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 84 | 222 | 267 | 547 | 289 | 330 | 193 | 784 | 265 | 148 | 913 | 57 |
| Future Volume (veh/h) | 84 | 222 | 267 | 547 | 289 | 330 | 193 | 784 | 265 | 148 | 913 | 57 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 87 | 229 | 275 | 564 | 298 | 340 | 199 | 808 | 273 | 153 | 941 | 59 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 126 | 370 | 314 | 268 | 209 | 239 | 230 | 1690 | 525 | 183 | 1549 | 481 |
| Arrive On Green | 0.07 | 0.20 | 0.20 | 0.15 | 0.26 | 0.26 | 0.13 | 0.33 | 0.33 | 0.10 | 0.31 | 0.31 |
| Sat Flow, veh/h | 1767 | 1856 | 1572 | 1781 | 797 | 910 | 1781 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 87 | 229 | 275 | 564 | 0 | 638 | 199 | 808 | 273 | 153 | 941 | 59 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1856 | 1572 | 1781 | 0 | 1707 | 1781 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 4.9 | 11.6 | 17.4 | 15.4 | 0.0 | 26.9 | 11.2 | 12.9 | 14.3 | 8.7 | 16.2 | 2.8 |
| Cycle Q Clear(g_c), s | 4.9 | 11.6 | 17.4 | 15.4 | 0.0 | 26.9 | 11.2 | 12.9 | 14.3 | 8.7 | 16.2 | 2.8 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.53 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 126 | 370 | 314 | 268 | 0 | 448 | 230 | 1690 | 525 | 183 | 1549 | 481 |
| V/C Ratio(X) | 0.69 | 0.62 | 0.88 | 2.11 | 0.00 | 1.42 | 0.87 | 0.48 | 0.52 | 0.83 | 0.61 | 0.12 |
| Avail Cap(c_a), veh/h | 238 | 425 | 361 | 268 | 0 | 448 | 255 | 1958 | 608 | 253 | 1942 | 603 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 46.5 | 37.5 | 39.8 | 43.5 | 0.0 | 37.8 | 43.8 | 27.3 | 27.7 | 45.1 | 30.3 | 25.7 |
| Incr Delay (d2), s/veh | 2.5 | 2.5 | 19.6 | 510.8 | 0.0 | 203.4 | 22.0 | 0.7 | 2.6 | 11.6 | 1.3 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.2 | 5.3 | 8.2 | 44.5 | 0.0 | 36.0 | 6.3 | 5.3 | 5.6 | 4.4 | 6.7 | 1.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 49.0 | 39.9 | 59.4 | 554.3 | 0.0 | 241.2 | 65.7 | 27.9 | 30.3 | 56.6 | 31.6 | 26.0 |
| LnGrp LOS | D | D | E | F | | F | E | C | C | E | C | C |
| Approach Vol, veh/h | | 591 | | | 1202 | | | 1280 | | | 1153 | |
| Approach Delay, s/veh | | 50.3 | | | 388.1 | | | 34.3 | | | 34.6 | |
| Approach LOS | | D | | | F | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 18.5 | 37.0 | 13.5 | 33.4 | 15.9 | 39.6 | 20.0 | 26.9 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 13.2 | 18.2 | 6.9 | 28.9 | 10.7 | 16.3 | 17.4 | 19.4 |
| Green Ext Time (p_c), s | 0.0 | 13.1 | 0.0 | 0.0 | 0.1 | 14.1 | 0.0 | 1.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 137.3 |
| HCM 7th LOS | F |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 2: Willow Avenue & Perrin Avenue

Cumulative Year NP_AM Peak Hour



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 278 | 119 | 209 | 197 | 181 | 76 | 160 | 861 | 134 | 45 | 1252 | 449 |
| Future Volume (veh/h) | 278 | 119 | 209 | 197 | 181 | 76 | 160 | 861 | 134 | 45 | 1252 | 449 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 287 | 123 | 215 | 203 | 187 | 78 | 165 | 888 | 138 | 46 | 1291 | 463 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 338 | 340 | 288 | 249 | 247 | 209 | 274 | 2055 | 638 | 102 | 1930 | 599 |
| Arrive On Green | 0.19 | 0.18 | 0.18 | 0.14 | 0.13 | 0.13 | 0.08 | 0.40 | 0.40 | 0.06 | 0.38 | 0.38 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1810 | 1900 | 1610 | 3456 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 287 | 123 | 215 | 203 | 187 | 78 | 165 | 888 | 138 | 46 | 1291 | 463 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1810 | 1900 | 1610 | 1728 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 15.6 | 5.8 | 12.8 | 10.9 | 9.5 | 4.4 | 4.6 | 12.6 | 5.7 | 2.5 | 21.2 | 25.8 |
| Cycle Q Clear(g_c), s | 15.6 | 5.8 | 12.8 | 10.9 | 9.5 | 4.4 | 4.6 | 12.6 | 5.7 | 2.5 | 21.2 | 25.8 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 338 | 340 | 288 | 249 | 247 | 209 | 274 | 2055 | 638 | 102 | 1930 | 599 |
| V/C Ratio(X) | 0.85 | 0.36 | 0.75 | 0.81 | 0.76 | 0.37 | 0.60 | 0.43 | 0.22 | 0.45 | 0.67 | 0.77 |
| Avail Cap(c_a), veh/h | 476 | 449 | 380 | 398 | 367 | 311 | 276 | 2055 | 638 | 171 | 1975 | 613 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 39.1 | 35.8 | 38.7 | 41.9 | 42.0 | 39.8 | 44.5 | 21.6 | 19.6 | 45.6 | 25.7 | 27.2 |
| Incr Delay (d2), s/veh | 16.3 | 1.8 | 10.8 | 16.0 | 12.4 | 3.0 | 2.5 | 0.5 | 0.6 | 1.2 | 1.5 | 8.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 8.1 | 2.7 | 5.7 | 5.9 | 5.3 | 1.9 | 2.1 | 5.0 | 2.1 | 1.1 | 8.5 | 10.5 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 55.4 | 37.6 | 49.6 | 57.9 | 54.4 | 42.8 | 47.1 | 22.1 | 20.1 | 46.7 | 27.2 | 35.4 |
| LnGrp LOS | E | D | D | E | D | D | D | C | C | D | C | D |
| Approach Vol, veh/h | | 625 | | | 468 | | | 1191 | | | 1800 | |
| Approach Delay, s/veh | | 49.9 | | | 54.0 | | | 25.3 | | | 29.8 | |
| Approach LOS | | D | | | D | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.2 | 43.8 | 24.3 | 18.7 | 11.1 | 46.0 | 19.1 | 23.9 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 5.3 | 5.7 | 5.3 | 5.7 | 5.3 | 5.7 |
| Max Green Setting (Gmax), s | 8.0 | 39.0 | 26.7 | 19.3 | 9.7 | 37.3 | 22.0 | 24.0 |
| Max Q Clear Time (g_c+I1), s | 6.6 | 27.8 | 17.6 | 11.5 | 4.5 | 14.6 | 12.9 | 14.8 |
| Green Ext Time (p_c), s | 0.0 | 10.3 | 1.4 | 1.5 | 0.0 | 14.0 | 0.9 | 2.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 34.4 |
| HCM 7th LOS | C |

| Intersection | |
|---|---|
| Int Delay, s/veh | 73.2 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 0 | 309 | 60 | 39 | 961 | 7 | 62 | 56 | 35 | 36 | 47 | 1 |
| Future Vol, veh/h | 0 | 309 | 60 | 39 | 961 | 7 | 62 | 56 | 35 | 36 | 47 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 336 | 65 | 42 | 1045 | 8 | 67 | 61 | 38 | 39 | 51 | 1 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1052 | 0 | 0 | 401 | 0 | 0 | 1523 | 1505 | 368 | 1499 | 1534 | 1048 |
| Stage 1 | - | - | - | - | - | - | 368 | 368 | - | 1133 | 1133 | - |
| Stage 2 | - | - | - | - | - | - | 1155 | 1137 | - | 366 | 401 | - |
| Critical Hdwy | 4.13 | - | - | 4.11 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.227 | - | - | 2.209 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 658 | - | - | 1163 | - | - | 98 | 122 | 682 | 102 | 117 | 279 |
| Stage 1 | - | - | - | - | - | - | 655 | 625 | - | 249 | 280 | - |
| Stage 2 | - | - | - | - | - | - | 242 | 279 | - | 657 | 604 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 658 | - | - | 1163 | - | - | ~ 48 | 112 | 682 | 42 | 107 | 279 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | ~ 48 | 112 | - | 42 | 107 | - |
| Stage 1 | - | - | - | - | - | - | 655 | 625 | - | 227 | 256 | - |
| Stage 2 | - | - | - | - | - | - | 176 | 255 | - | 560 | 604 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0.32 | $ 568.33 | $ 366.02 |
| HCM LOS | | | F | F |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 84 | 658 | - | - | 70 | - | - | 64 |
| HCM Lane V/C Ratio | 1.991 | - | - | - | 0.036 | - | - | 1.418 |
| HCM Control Delay (s/veh) | $ 568.3 | 0 | - | - | 8.2 | 0 | - | $ 366 |
| HCM Lane LOS | F | A | - | - | A | A | - | F |
| HCM 95th %tile Q(veh) | 14.6 | 0 | - | - | 0.1 | - | - | 7.8 |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 480.6 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 12 | 222 | 153 | 63 | 512 | 279 | 177 | 317 | 35 | 250 | 544 | 23 |
| Future Vol, veh/h | 12 | 222 | 153 | 63 | 512 | 279 | 177 | 317 | 35 | 250 | 544 | 23 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 12 | 229 | 158 | 65 | 528 | 288 | 182 | 327 | 36 | 258 | 561 | 24 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 136.2 | 630.6 | 281.2 | 616 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 33% | 3% | 7% | 31% |
| Vol Thru, % | 60% | 57% | 60% | 67% |
| Vol Right, % | 7% | 40% | 33% | 3% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 529 | 387 | 854 | 817 |
| LT Vol | 177 | 12 | 63 | 250 |
| Through Vol | 317 | 222 | 512 | 544 |
| RT Vol | 35 | 153 | 279 | 23 |
| Lane Flow Rate | 545 | 399 | 880 | 842 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 1.466 | 1.044 | 2.307 | 2.268 |
| Departure Headway (Hd) | 19.313 | 21.735 | 14.634 | 15.645 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 196 | 172 | 255 | 244 |
| Service Time | 17.313 | 19.735 | 12.634 | 13.645 |
| HCM Lane V/C Ratio | 2.781 | 2.32 | 3.451 | 3.451 |
| HCM Control Delay, s/veh | 281.2 | 136.2 | 630.6 | 616 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 16.9 | 8.5 | 44.9 | 41.2 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 522 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 85 | 129 | 121 | 22 | 144 | 4 | 96 | 523 | 18 | 3 | 962 | 140 |
| Future Vol, veh/h | 85 | 129 | 121 | 22 | 144 | 4 | 96 | 523 | 18 | 3 | 962 | 140 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 92 | 140 | 132 | 24 | 157 | 4 | 104 | 568 | 20 | 3 | 1046 | 152 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1984 | 1925 | 1122 | 1909 | 1991 | 578 | 1198 | 0 | 0 | 588 | 0 | 0 |
| Stage 1 | 1128 | 1128 | - | 787 | 787 | - | - | - | - | - | - | - |
| Stage 2 | 855 | 797 | - | 1122 | 1204 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | ~ 46 | ~ 67 | 251 | 52 | ~ 61 | 515 | 579 | - | - | 982 | - | - |
| Stage 1 | 248 | 279 | - | 385 | 403 | - | - | - | - | - | - | - |
| Stage 2 | 353 | 399 | - | 250 | 257 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | ~ 33 | ~ 48 | 251 | ~ 18 | ~ 44 | 515 | 579 | - | - | 982 | - | - |
| Mov Cap-2 Maneuver | ~ 33 | ~ 48 | - | ~ 18 | ~ 44 | - | - | - | - | - | - | - |
| Stage 1 | 246 | 276 | - | 282 | 295 | - | - | - | - | - | - | - |
| Stage 2 | 120 | 292 | - | 58 | 254 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay | $ 2494.76 | $ 1976.85 | 1.9 | 0.02 |
| HCM LOS | F | F | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 269 | - | - | 58 | 38 | 5 | - | - |
| HCM Lane V/C Ratio | 0.18 | - | - | 6.237 | 4.918 | 0.003 | - | - |
| HCM Control Delay (s/veh) | 12.6 | 0 | - | $ 2494.8 | $ 1976.9 | 8.7 | 0 | - |
| HCM Lane LOS | B | A | - | F | F | A | A | - |
| HCM 95th %tile Q(veh) | 0.7 | - | - | 41.5 | 21.6 | 0 | - | - |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

# HCM 7th Signalized Intersection Summary
## 6: Minnewawa Avenue & Shepherd Avenue

De Young Properties Peach and Benymer Project
Cumulative Year NP_AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 150 | 564 | 508 | 106 | 503 | 322 | 260 | 387 | 51 | 297 | 966 | 221 |
| Future Volume (veh/h) | 150 | 564 | 508 | 106 | 503 | 322 | 260 | 387 | 51 | 297 | 966 | 221 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 421 | 55 | 323 | 1050 | 240 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 190 | 1050 | 468 | 156 | 517 | 438 | 304 | 517 | 438 | 304 | 517 | 438 |
| Arrive On Green | 0.11 | 0.30 | 0.30 | 0.09 | 0.28 | 0.28 | 0.17 | 0.28 | 0.28 | 0.17 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 421 | 55 | 323 | 1050 | 240 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 11.1 | 18.1 | 36.4 | 7.8 | 34.0 | 25.2 | 19.3 | 25.9 | 3.2 | 21.0 | 34.0 | 15.9 |
| Cycle Q Clear(g_c), s | 11.1 | 18.1 | 36.4 | 7.8 | 34.0 | 25.2 | 19.3 | 25.9 | 3.2 | 21.0 | 34.0 | 15.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 190 | 1050 | 468 | 156 | 517 | 438 | 304 | 517 | 438 | 304 | 517 | 438 |
| V/C Ratio(X) | 0.86 | 0.58 | 1.18 | 0.74 | 1.06 | 0.80 | 0.93 | 0.82 | 0.13 | 1.06 | 2.03 | 0.55 |
| Avail Cap(c_a), veh/h | 304 | 1050 | 468 | 304 | 517 | 438 | 304 | 517 | 438 | 304 | 517 | 438 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 53.6 | 36.5 | 42.9 | 54.3 | 44.1 | 40.9 | 49.9 | 41.1 | 33.0 | 50.6 | 44.1 | 37.5 |
| Incr Delay (d2), s/veh | 7.5 | 1.1 | 100.8 | 2.5 | 56.1 | 10.9 | 33.6 | 9.8 | 0.1 | 69.3 | 471.5 | 1.9 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 5.1 | 7.6 | 26.5 | 3.4 | 22.9 | 10.6 | 11.1 | 12.8 | 1.2 | 15.1 | 83.1 | 6.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 61.1 | 37.5 | 143.7 | 56.8 | 100.2 | 51.8 | 83.5 | 51.0 | 33.1 | 119.9 | 515.6 | 39.4 |
| LnGrp LOS | E | D | F | E | F | D | F | D | C | F | F | D |
| Approach Vol, veh/h | | 1328 | | | 1012 | | | 759 | | | 1613 | |
| Approach Delay, s/veh | | 84.6 | | | 78.5 | | | 61.8 | | | 365.5 | |
| Approach LOS | | F | | | E | | | E | | | F | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 25.0 | 40.0 | 17.1 | 40.0 | 25.0 | 40.0 | 14.8 | 42.4 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 21.3 | 36.0 | 13.1 | 36.0 | 23.0 | 27.9 | 9.8 | 38.4 |
| Green Ext Time (p_c), s | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 1.4 | 0.1 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 175.8 |
| HCM 7th LOS | F |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Cumulative Year NP_PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 22 | 254 | 237 | 526 | 252 | 254 | 215 | 889 | 670 | 244 | 655 | 42 |
| Future Volume (veh/h) | 22 | 254 | 237 | 526 | 252 | 254 | 215 | 889 | 670 | 244 | 655 | 42 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 24 | 276 | 258 | 572 | 274 | 276 | 234 | 966 | 728 | 265 | 712 | 46 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 67 | 347 | 294 | 244 | 231 | 233 | 235 | 1800 | 559 | 235 | 1800 | 559 |
| Arrive On Green | 0.04 | 0.19 | 0.19 | 0.14 | 0.27 | 0.27 | 0.13 | 0.35 | 0.35 | 0.13 | 0.35 | 0.35 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1781 | 855 | 861 | 1795 | 5147 | 1598 | 1795 | 5147 | 1598 |
| Grp Volume(v), veh/h | 24 | 276 | 258 | 572 | 0 | 550 | 234 | 966 | 728 | 265 | 712 | 46 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1781 | 0 | 1715 | 1795 | 1716 | 1598 | 1795 | 1716 | 1598 |
| Q Serve(g_s), s | 1.5 | 15.8 | 17.8 | 15.4 | 0.0 | 30.4 | 14.6 | 16.9 | 39.3 | 14.7 | 11.7 | 2.2 |
| Cycle Q Clear(g_c), s | 1.5 | 15.8 | 17.8 | 15.4 | 0.0 | 30.4 | 14.6 | 16.9 | 39.3 | 14.7 | 11.7 | 2.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.50 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 67 | 347 | 294 | 244 | 0 | 465 | 235 | 1800 | 559 | 235 | 1800 | 559 |
| V/C Ratio(X) | 0.36 | 0.80 | 0.88 | 2.34 | 0.00 | 1.18 | 1.00 | 0.54 | 1.30 | 1.13 | 0.40 | 0.08 |
| Avail Cap(c_a), veh/h | 219 | 391 | 332 | 244 | 0 | 465 | 235 | 1800 | 559 | 235 | 1800 | 559 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 52.7 | 43.7 | 44.5 | 48.5 | 0.0 | 41.0 | 48.8 | 29.2 | 36.5 | 48.8 | 27.6 | 24.4 |
| Incr Delay (d2), s/veh | 1.2 | 10.3 | 21.3 | 616.7 | 0.0 | 102.9 | 57.5 | 0.8 | 148.8 | 97.5 | 0.5 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.7 | 8.1 | 8.5 | 48.5 | 0.0 | 25.6 | 10.3 | 7.0 | 37.7 | 12.9 | 4.9 | 0.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 53.9 | 54.0 | 65.8 | 665.1 | 0.0 | 143.9 | 106.3 | 30.1 | 185.3 | 146.3 | 28.0 | 24.6 |
| LnGrp LOS | D | D | E | F | | F | F | C | F | F | C | C |
| Approach Vol, veh/h | | 558 | | | 1122 | | | 1928 | | | 1023 | |
| Approach Delay, s/veh | | 59.4 | | | 409.6 | | | 97.9 | | | 58.5 | |
| Approach LOS | | E | | | F | | | F | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 20.0 | 45.0 | 10.4 | 36.9 | 20.0 | 45.0 | 20.0 | 27.3 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 16.6 | 13.7 | 3.5 | 32.4 | 16.7 | 41.3 | 17.4 | 19.8 |
| Green Ext Time (p_c), s | 0.0 | 11.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 160.1 |
| HCM 7th LOS | F |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Benymer Project

## 2: Willow Avenue & Perrin Avenue

Cumulative Year NP_PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 449 | 233 | 333 | 246 | 197 | 107 | 273 | 1373 | 280 | 120 | 908 | 401 |
| Future Volume (veh/h) | 449 | 233 | 333 | 246 | 197 | 107 | 273 | 1373 | 280 | 120 | 908 | 401 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 473 | 245 | 351 | 259 | 207 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 436 | 411 | 349 | 297 | 266 | 225 | 251 | 1715 | 532 | 142 | 1808 | 561 |
| Arrive On Green | 0.24 | 0.22 | 0.22 | 0.16 | 0.14 | 0.14 | 0.07 | 0.33 | 0.33 | 0.08 | 0.35 | 0.35 |
| Sat Flow, veh/h | 1810 | 1900 | 1610 | 1810 | 1900 | 1610 | 3483 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 473 | 245 | 351 | 259 | 207 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1900 | 1610 | 1810 | 1900 | 1610 | 1742 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 26.7 | 12.9 | 24.0 | 15.5 | 11.7 | 7.2 | 8.0 | 28.9 | 16.7 | 7.6 | 16.3 | 25.6 |
| Cycle Q Clear(g_c), s | 26.7 | 12.9 | 24.0 | 15.5 | 11.7 | 7.2 | 8.0 | 28.9 | 16.7 | 7.6 | 16.3 | 25.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 436 | 411 | 349 | 297 | 266 | 225 | 251 | 1715 | 532 | 142 | 1808 | 561 |
| V/C Ratio(X) | 1.09 | 0.60 | 1.01 | 0.87 | 0.78 | 0.50 | 1.14 | 0.84 | 0.55 | 0.89 | 0.53 | 0.75 |
| Avail Cap(c_a), veh/h | 436 | 411 | 349 | 359 | 331 | 280 | 251 | 1732 | 538 | 142 | 1825 | 566 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 42.1 | 39.1 | 43.4 | 45.2 | 46.0 | 44.1 | 51.4 | 34.3 | 30.2 | 50.6 | 28.8 | 31.9 |
| Incr Delay (d2), s/veh | 68.0 | 4.2 | 49.9 | 22.7 | 14.5 | 4.7 | 100.4 | 4.8 | 3.2 | 42.9 | 0.8 | 7.9 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 19.7 | 6.3 | 14.1 | 8.8 | 6.5 | 3.1 | 7.0 | 12.6 | 6.7 | 5.1 | 6.9 | 10.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 110.1 | 43.3 | 93.4 | 67.9 | 60.5 | 48.8 | 151.9 | 39.1 | 33.4 | 93.4 | 29.7 | 39.8 |
| LnGrp LOS | F | D | F | E | E | D | F | D | C | F | C | D |
| Approach Vol, veh/h | | 1069 | | | 579 | | | 2027 | | | 1504 | |
| Approach Delay, s/veh | | 89.3 | | | 61.5 | | | 54.2 | | | 37.9 | |
| Approach LOS | | F | | | E | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.3 | 44.3 | 32.0 | 21.2 | 15.0 | 42.6 | 23.5 | 29.7 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 5.3 | 5.7 | 6.3 | 5.7 | 5.3 | 5.7 |
| Max Green Setting (Gmax), s | 8.0 | 39.0 | 26.7 | 19.3 | 8.7 | 37.3 | 22.0 | 24.0 |
| Max Q Clear Time (g_c+I1), s | 10.0 | 27.6 | 28.7 | 13.7 | 9.6 | 30.9 | 17.5 | 26.0 |
| Green Ext Time (p_c), s | 0.0 | 9.4 | 0.0 | 1.4 | 0.0 | 6.1 | 0.8 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 57.5 |
| HCM 7th LOS | E |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1808.2 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 772 | 83 | 48 | 620 | 36 | 95 | 74 | 54 | 10 | 75 | 1 |
| Future Vol, veh/h | 1 | 772 | 83 | 48 | 620 | 36 | 95 | 74 | 54 | 10 | 75 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 821 | 88 | 51 | 660 | 38 | 101 | 79 | 57 | 11 | 80 | 1 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 698 | 0 | 0 | 910 | 0 | 0 | 1669 | 1668 | 865 | 1644 | 1693 | 679 |
| Stage 1 | - | - | - | - | - | - | 868 | 868 | - | 781 | 781 | - |
| Stage 2 | - | - | - | - | - | - | 802 | 800 | - | 863 | 912 | - |
| Critical Hdwy | 4.12 | - | - | 4.1 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.2 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 898 | - | - | 757 | - | - | ~ 77 | 97 | 356 | 81 | 94 | 455 |
| Stage 1 | - | - | - | - | - | - | 350 | 373 | - | 391 | 408 | - |
| Stage 2 | - | - | - | - | - | - | 381 | 400 | - | 352 | 356 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 898 | - | - | 757 | - | - | ~ 3 | 86 | 356 | ~ 6 | 83 | 455 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | ~ 3 | 86 | - | ~ 6 | 83 | - |
| Stage 1 | - | - | - | - | - | - | 349 | 372 | - | 348 | 363 | - |
| Stage 2 | - | - | - | - | - | - | 263 | 356 | - | 232 | 355 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0.01 | 0.69 | $ 14749.01 | $ 1047.33 |
| HCM LOS | | | F | F |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 7 | 2 | - | - | 121 | - | - | 33 |
| HCM Lane V/C Ratio | 31.633 | 0.001 | - | - | 0.067 | - | - | 2.755 |
| HCM Control Delay (s/veh) | $ 14749 | 9 | 0 | - | 10.1 | 0 | - | $ 1047.3 |
| HCM Lane LOS | F | A | A | - | B | A | - | F |
| HCM 95th %tile Q(veh) | 31.5 | 0 | - | - | 0.2 | - | - | 10.5 |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 560.3 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 14 | 472 | 161 | 35 | 463 | 223 | 229 | 628 | 64 | 226 | 310 | 10 |
| Future Vol, veh/h | 14 | 472 | 161 | 35 | 463 | 223 | 229 | 628 | 64 | 226 | 310 | 10 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 15 | 508 | 173 | 38 | 498 | 240 | 246 | 675 | 69 | 243 | 333 | 11 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 445.4 | 526.3 | 793.7 | 347.5 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 25% | 2% | 5% | 41% |
| Vol Thru, % | 68% | 73% | 64% | 57% |
| Vol Right, % | 7% | 25% | 31% | 2% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 921 | 647 | 721 | 546 |
| LT Vol | 229 | 14 | 35 | 226 |
| Through Vol | 628 | 472 | 463 | 310 |
| RT Vol | 64 | 161 | 223 | 10 |
| Lane Flow Rate | 990 | 696 | 775 | 587 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 2.652 | 1.833 | 2.029 | 1.585 |
| Departure Headway (Hd) | 18.567 | 22.768 | 21.387 | 25.128 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 208 | 167 | 178 | 153 |
| Service Time | 16.567 | 20.768 | 19.387 | 23.128 |
| HCM Lane V/C Ratio | 4.76 | 4.168 | 4.354 | 3.837 |
| HCM Control Delay, s/veh | 793.7 | 445.4 | 526.3 | 347.5 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 44.4 | 21.5 | 26.5 | 15.8 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1955.5 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 129 | 179 | 149 | 23 | 177 | 5 | 161 | 1069 | 18 | 4 | 597 | 111 |
| Future Vol, veh/h | 129 | 179 | 149 | 23 | 177 | 5 | 161 | 1069 | 18 | 4 | 597 | 111 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 136 | 188 | 157 | 24 | 186 | 5 | 169 | 1125 | 19 | 4 | 628 | 117 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 2253 | 2178 | 687 | 2205 | 2227 | 1135 | 745 | 0 | 0 | 1144 | 0 | 0 |
| Stage 1 | 695 | 695 | - | 1474 | 1474 | - | - | - | - | - | - | - |
| Stage 2 | 1557 | 1483 | - | 731 | 754 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | ~ 29 | ~ 46 | 447 | 32 | ~ 43 | 246 | 863 | - | - | 607 | - | - |
| Stage 1 | 432 | 444 | - | 158 | 191 | - | - | - | - | - | - | - |
| Stage 2 | 141 | 189 | - | 413 | 417 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | ~ 13 | ~ 21 | 447 | ~ 9 | ~ 19 | 246 | 863 | - | - | 607 | - | - |
| Mov Cap-2 Maneuver | ~ 13 | ~ 21 | - | ~ 9 | ~ 19 | - | - | - | - | - | - | - |
| Stage 1 | 427 | 438 | - | 72 | ~ 87 | - | - | - | - | - | - | - |
| Stage 2 | - | ~ 86 | - | 151 | 412 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay | $ 8767.32 | $ 5458.01 | 1.31 | 0.06 |
| HCM LOS | F | F | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 231 | - | - | 24 | 18 | 10 | - | - |
| HCM Lane V/C Ratio | 0.196 | - | - | 19.802 | 12.193 | 0.007 | - | - |
| HCM Control Delay (s/veh) | 10.2 | 0 | - | $ 8767.3 | $ 5458 | 11 | 0 | - |
| HCM Lane LOS | B | A | - | F | F | B | A | - |
| HCM 95th %tile Q(veh) | 0.7 | - | - | 60.1 | 27.7 | 0 | - | - |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

HCM 7th Signalized Intersection Summary De Young Properties Peach and Benymer Project
6: Minnewawa Avenue & Shepherd Avenue Cumulative Year NP_PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 322 | 511 | 441 | 48 | 383 | 329 | 473 | 1066 | 90 | 199 | 673 | 230 |
| Future Volume (veh/h) | 322 | 511 | 441 | 48 | 383 | 329 | 473 | 1066 | 90 | 199 | 673 | 230 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 1122 | 95 | 209 | 708 | 242 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 300 | 1215 | 542 | 131 | 462 | 392 | 295 | 562 | 476 | 235 | 497 | 421 |
| Arrive On Green | 0.17 | 0.34 | 0.34 | 0.07 | 0.24 | 0.24 | 0.17 | 0.30 | 0.30 | 0.13 | 0.27 | 0.27 |
| Sat Flow, veh/h | 1810 | 3610 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 1122 | 95 | 209 | 708 | 242 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1805 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 21.0 | 14.7 | 34.1 | 3.4 | 25.8 | 26.3 | 21.0 | 38.1 | 5.7 | 14.8 | 34.0 | 16.9 |
| Cycle Q Clear(g_c), s | 21.0 | 14.7 | 34.1 | 3.4 | 25.8 | 26.3 | 21.0 | 38.1 | 5.7 | 14.8 | 34.0 | 16.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 300 | 1215 | 542 | 131 | 462 | 392 | 295 | 562 | 476 | 235 | 497 | 421 |
| V/C Ratio(X) | 1.13 | 0.44 | 0.86 | 0.39 | 0.87 | 0.88 | 1.69 | 2.00 | 0.20 | 0.89 | 1.42 | 0.57 |
| Avail Cap(c_a), veh/h | 300 | 1215 | 542 | 300 | 509 | 432 | 295 | 562 | 476 | 293 | 497 | 421 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 52.9 | 32.8 | 39.2 | 56.2 | 46.1 | 46.3 | 52.9 | 44.4 | 33.0 | 54.1 | 46.4 | 40.2 |
| Incr Delay (d2), s/veh | 92.4 | 0.4 | 13.3 | 0.7 | 15.3 | 19.0 | 324.3 | 454.3 | 0.2 | 20.7 | 202.1 | 2.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 16.9 | 6.3 | 14.8 | 1.5 | 13.7 | 12.2 | 35.7 | 87.9 | 2.1 | 7.9 | 43.5 | 6.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 145.3 | 33.2 | 52.5 | 56.9 | 61.4 | 65.3 | 377.3 | 498.7 | 33.2 | 74.8 | 248.6 | 42.5 |
| LnGrp LOS | F | C | D | E | E | E | F | F | C | E | F | D |
| Approach Vol, veh/h | | 1341 | | | 800 | | | 1715 | | | 1159 | |
| Approach Delay, s/veh | | 68.2 | | | 62.8 | | | 437.7 | | | 174.2 | |
| Approach LOS | | E | | | E | | | F | | | F | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 25.0 | 40.0 | 25.0 | 36.9 | 20.9 | 44.1 | 13.2 | 48.7 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 23.0 | 36.0 | 23.0 | 28.3 | 16.8 | 40.1 | 5.4 | 36.1 |
| Green Ext Time (p_c), s | 0.0 | 0.0 | 0.0 | 2.6 | 0.1 | 0.0 | 0.0 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 218.2 |
| HCM 7th LOS | F |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Cumulative Year WP_AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 84 | 223 | 267 | 547 | 293 | 337 | 193 | 784 | 265 | 150 | 913 | 57 |
| Future Volume (veh/h) | 84 | 223 | 267 | 547 | 293 | 337 | 193 | 784 | 265 | 150 | 913 | 57 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 87 | 230 | 275 | 564 | 302 | 347 | 199 | 808 | 273 | 155 | 941 | 59 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 126 | 370 | 314 | 268 | 208 | 239 | 230 | 1684 | 523 | 186 | 1549 | 481 |
| Arrive On Green | 0.07 | 0.20 | 0.20 | 0.15 | 0.26 | 0.26 | 0.13 | 0.33 | 0.33 | 0.10 | 0.31 | 0.31 |
| Sat Flow, veh/h | 1767 | 1856 | 1572 | 1781 | 794 | 912 | 1781 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 87 | 230 | 275 | 564 | 0 | 649 | 199 | 808 | 273 | 155 | 941 | 59 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1856 | 1572 | 1781 | 0 | 1706 | 1781 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 4.9 | 11.6 | 17.4 | 15.4 | 0.0 | 26.9 | 11.2 | 12.9 | 14.3 | 8.8 | 16.2 | 2.8 |
| Cycle Q Clear(g_c), s | 4.9 | 11.6 | 17.4 | 15.4 | 0.0 | 26.9 | 11.2 | 12.9 | 14.3 | 8.8 | 16.2 | 2.8 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.53 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 126 | 370 | 314 | 268 | 0 | 448 | 230 | 1684 | 523 | 186 | 1549 | 481 |
| V/C Ratio(X) | 0.69 | 0.62 | 0.88 | 2.11 | 0.00 | 1.45 | 0.87 | 0.48 | 0.52 | 0.84 | 0.61 | 0.12 |
| Avail Cap(c_a), veh/h | 238 | 425 | 361 | 268 | 0 | 448 | 255 | 1958 | 608 | 253 | 1942 | 603 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 46.5 | 37.5 | 39.8 | 43.5 | 0.0 | 37.8 | 43.8 | 27.3 | 27.8 | 45.0 | 30.3 | 25.7 |
| Incr Delay (d2), s/veh | 2.5 | 2.5 | 19.6 | 510.8 | 0.0 | 214.2 | 22.0 | 0.7 | 2.6 | 12.1 | 1.3 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.2 | 5.4 | 8.2 | 44.5 | 0.0 | 37.4 | 6.3 | 5.3 | 5.6 | 4.5 | 6.7 | 1.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 49.0 | 40.0 | 59.4 | 554.3 | 0.0 | 252.0 | 65.7 | 28.0 | 30.4 | 57.1 | 31.6 | 26.0 |
| LnGrp LOS | D | D | E | F | | F | E | C | C | E | C | C |
| Approach Vol, veh/h | | 592 | | | 1213 | | | 1280 | | | 1155 | |
| Approach Delay, s/veh | | 50.4 | | | 392.6 | | | 34.4 | | | 34.7 | |
| Approach LOS | | D | | | F | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 18.5 | 37.0 | 13.5 | 33.4 | 16.1 | 39.5 | 20.0 | 26.9 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 13.2 | 18.2 | 6.9 | 28.9 | 10.8 | 16.3 | 17.4 | 19.4 |
| Green Ext Time (p_c), s | 0.0 | 13.1 | 0.0 | 0.0 | 0.1 | 14.1 | 0.0 | 1.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 139.2 |
| HCM 7th LOS | F |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 2: Willow Avenue & Perrin Avenue

Cumulative Year WP_AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 278 | 126 | 209 | 197 | 200 | 76 | 160 | 861 | 134 | 45 | 1252 | 449 |
| Future Volume (veh/h) | 278 | 126 | 209 | 197 | 200 | 76 | 160 | 861 | 134 | 45 | 1252 | 449 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 287 | 130 | 215 | 203 | 206 | 78 | 165 | 888 | 138 | 46 | 1291 | 463 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 337 | 357 | 302 | 249 | 264 | 223 | 270 | 1979 | 614 | 101 | 1908 | 592 |
| Arrive On Green | 0.19 | 0.19 | 0.19 | 0.14 | 0.14 | 0.14 | 0.08 | 0.39 | 0.39 | 0.06 | 0.38 | 0.38 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1810 | 1900 | 1610 | 3456 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 287 | 130 | 215 | 203 | 206 | 78 | 165 | 888 | 138 | 46 | 1291 | 463 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1810 | 1900 | 1610 | 1728 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 15.8 | 6.1 | 12.9 | 11.0 | 10.6 | 4.4 | 4.7 | 13.1 | 5.9 | 2.6 | 21.6 | 26.4 |
| Cycle Q Clear(g_c), s | 15.8 | 6.1 | 12.9 | 11.0 | 10.6 | 4.4 | 4.7 | 13.1 | 5.9 | 2.6 | 21.6 | 26.4 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 337 | 357 | 302 | 249 | 264 | 223 | 270 | 1979 | 614 | 101 | 1908 | 592 |
| V/C Ratio(X) | 0.85 | 0.36 | 0.71 | 0.82 | 0.78 | 0.35 | 0.61 | 0.45 | 0.22 | 0.45 | 0.68 | 0.78 |
| Avail Cap(c_a), veh/h | 469 | 443 | 375 | 393 | 362 | 307 | 273 | 1979 | 614 | 152 | 1949 | 605 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 39.7 | 35.7 | 38.4 | 42.5 | 42.2 | 39.5 | 45.2 | 23.0 | 20.8 | 46.2 | 26.4 | 27.9 |
| Incr Delay (d2), s/veh | 16.7 | 1.7 | 9.0 | 16.4 | 14.0 | 2.6 | 2.8 | 0.5 | 0.6 | 1.2 | 1.6 | 8.8 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 8.2 | 2.9 | 5.6 | 6.0 | 6.0 | 1.9 | 2.1 | 5.2 | 2.2 | 1.2 | 8.7 | 10.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 56.4 | 37.4 | 47.4 | 58.8 | 56.1 | 42.1 | 48.0 | 23.5 | 21.4 | 47.4 | 28.0 | 36.7 |
| LnGrp LOS | E | D | D | E | E | D | D | C | C | D | C | D |
| Approach Vol, veh/h | | 632 | | | 487 | | | 1191 | | | 1800 | |
| Approach Delay, s/veh | | 49.4 | | | 55.0 | | | 26.7 | | | 30.8 | |
| Approach LOS | | D | | | E | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.2 | 43.9 | 24.5 | 19.8 | 12.1 | 45.0 | 19.2 | 25.0 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 5.3 | 5.7 | 6.3 | 5.7 | 5.3 | 5.7 |
| Max Green Setting (Gmax), s | 8.0 | 39.0 | 26.7 | 19.3 | 8.7 | 37.3 | 22.0 | 24.0 |
| Max Q Clear Time (g_c+I1), s | 6.7 | 28.4 | 17.8 | 12.6 | 4.6 | 15.1 | 13.0 | 14.9 |
| Green Ext Time (p_c), s | 0.0 | 9.8 | 1.4 | 1.4 | 0.0 | 13.8 | 0.9 | 2.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 35.3 |
| HCM 7th LOS | D |

| Intersection | |
|---|---|
| Int Delay, s/veh | 93.5 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 0 | 312 | 60 | 45 | 964 | 7 | 70 | 56 | 36 | 36 | 47 | 1 |
| Future Vol, veh/h | 0 | 312 | 60 | 45 | 964 | 7 | 70 | 56 | 36 | 36 | 47 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 339 | 65 | 49 | 1048 | 8 | 76 | 61 | 39 | 39 | 51 | 1 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1055 | 0 | 0 | 404 | 0 | 0 | 1543 | 1525 | 372 | 1519 | 1554 | 1052 |
| Stage 1 | - | - | - | - | - | - | 372 | 372 | - | 1149 | 1149 | - |
| Stage 2 | - | - | - | - | - | - | 1171 | 1153 | - | 370 | 404 | - |
| Critical Hdwy | 4.13 | - | - | 4.11 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.227 | - | - | 2.209 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 656 | - | - | 1160 | - | - | 95 | 119 | 679 | 98 | 114 | 278 |
| Stage 1 | - | - | - | - | - | - | 653 | 623 | - | 244 | 275 | - |
| Stage 2 | - | - | - | - | - | - | 237 | 274 | - | 655 | 602 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 656 | - | - | 1160 | - | - | ~ 45 | 107 | 679 | ~ 38 | 103 | 278 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | ~ 45 | 107 | - | ~ 38 | 103 | - |
| Stage 1 | - | - | - | - | - | - | 653 | 623 | - | 219 | 247 | - |
| Stage 2 | - | - | - | - | - | - | 168 | 246 | - | 557 | 602 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0.36 | $ 722.9 | $ 420.75 |
| HCM LOS | | | F | F |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 76 | 656 | - | - | 80 | - | - | 60 |
| HCM Lane V/C Ratio | 2.325 | - | - | - | 0.042 | - | - | 1.53 |
| HCM Control Delay (s/veh) | $ 722.9 | 0 | - | - | 8.2 | 0 | - | $ 420.8 |
| HCM Lane LOS | F | A | - | - | A | A | - | F |
| HCM 95th %tile Q(veh) | 16.5 | 0 | - | - | 0.1 | - | - | 8.2 |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 492.8 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 16 | 259 | 181 | 63 | 525 | 279 | 187 | 317 | 35 | 250 | 544 | 24 |
| Future Vol, veh/h | 16 | 259 | 181 | 63 | 525 | 279 | 187 | 317 | 35 | 250 | 544 | 24 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 16 | 267 | 187 | 65 | 541 | 288 | 193 | 327 | 36 | 258 | 561 | 25 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 199.1 | 649.5 | 296.9 | 619.6 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 35% | 4% | 7% | 31% |
| Vol Thru, % | 59% | 57% | 61% | 67% |
| Vol Right, % | 6% | 40% | 32% | 3% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 539 | 456 | 867 | 818 |
| LT Vol | 187 | 16 | 63 | 250 |
| Through Vol | 317 | 259 | 525 | 544 |
| RT Vol | 35 | 181 | 279 | 24 |
| Lane Flow Rate | 556 | 470 | 894 | 843 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 1.494 | 1.23 | 2.343 | 2.27 |
| Departure Headway (Hd) | 20.679 | 22.13 | 15.793 | 16.701 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 183 | 169 | 241 | 228 |
| Service Time | 18.679 | 20.13 | 13.793 | 14.701 |
| HCM Lane V/C Ratio | 3.038 | 2.781 | 3.71 | 3.697 |
| HCM Control Delay, s/veh | 296.9 | 199.1 | 649.5 | 619.6 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 16.6 | 11.3 | 42.9 | 38.9 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 563.3 |

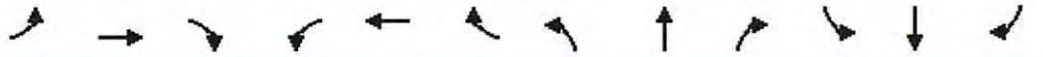
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 85 | 129 | 121 | 22 | 144 | 4 | 96 | 533 | 18 | 3 | 990 | 140 |
| Future Vol, veh/h | 85 | 129 | 121 | 22 | 144 | 4 | 96 | 533 | 18 | 3 | 990 | 140 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 92 | 140 | 132 | 24 | 157 | 4 | 104 | 579 | 20 | 3 | 1076 | 152 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 2025 | 1966 | 1152 | 1951 | 2033 | 589 | 1228 | 0 | 0 | 599 | 0 | 0 |
| Stage 1 | 1159 | 1159 | - | 798 | 798 | - | - | - | - | - | - | - |
| Stage 2 | 866 | 808 | - | 1153 | 1235 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | ~ 43 | ~ 63 | 241 | 48 | ~ 57 | 508 | 564 | - | - | 973 | - | - |
| Stage 1 | 238 | 270 | - | 380 | 398 | - | - | - | - | - | - | - |
| Stage 2 | 348 | 394 | - | 240 | 249 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | ~ 30 | ~ 45 | 241 | ~ 16 | ~ 41 | 508 | 564 | - | - | 973 | - | - |
| Mov Cap-2 Maneuver | ~ 30 | ~ 45 | - | ~ 16 | ~ 41 | - | - | - | - | - | - | - |
| Stage 1 | 236 | 267 | - | 274 | 287 | - | - | - | - | - | - | - |
| Stage 2 | 113 | 284 | - | 51 | 246 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay | $ 2721.78 | $ 2200.21 | 1.9 | 0.02 |
| HCM LOS | F | F | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 265 | - | - | 54 | 34 | 5 | - | - |
| HCM Lane V/C Ratio | 0.185 | - | - | 6.721 | 5.376 | 0.003 | - | - |
| HCM Control Delay (s/veh) | 12.8 | 0 | - | $ 2721.8 | $ 2200.2 | 8.7 | 0 | - |
| HCM Lane LOS | B | A | - | F | F | A | A | - |
| HCM 95th %tile Q(veh) | 0.7 | - | - | 42 | 22 | 0 | - | - |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 150 | 564 | 508 | 106 | 503 | 322 | 260 | 397 | 51 | 297 | 994 | 221 |
| Future Volume (veh/h) | 150 | 564 | 508 | 106 | 503 | 322 | 260 | 397 | 51 | 297 | 994 | 221 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 432 | 55 | 323 | 1080 | 240 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 190 | 1050 | 468 | 156 | 517 | 438 | 304 | 517 | 438 | 304 | 517 | 438 |
| Arrive On Green | 0.11 | 0.30 | 0.30 | 0.09 | 0.28 | 0.28 | 0.17 | 0.28 | 0.28 | 0.17 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 432 | 55 | 323 | 1080 | 240 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 11.1 | 18.1 | 36.4 | 7.8 | 34.0 | 25.2 | 19.3 | 26.7 | 3.2 | 21.0 | 34.0 | 15.9 |
| Cycle Q Clear(g_c), s | 11.1 | 18.1 | 36.4 | 7.8 | 34.0 | 25.2 | 19.3 | 26.7 | 3.2 | 21.0 | 34.0 | 15.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 190 | 1050 | 468 | 156 | 517 | 438 | 304 | 517 | 438 | 304 | 517 | 438 |
| V/C Ratio(X) | 0.86 | 0.58 | 1.18 | 0.74 | 1.06 | 0.80 | 0.93 | 0.84 | 0.13 | 1.06 | 2.09 | 0.55 |
| Avail Cap(c_a), veh/h | 304 | 1050 | 468 | 304 | 517 | 438 | 304 | 517 | 438 | 304 | 517 | 438 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 53.6 | 36.5 | 42.9 | 54.3 | 44.1 | 40.9 | 49.9 | 41.5 | 33.0 | 50.6 | 44.1 | 37.5 |
| Incr Delay (d2), s/veh | 7.5 | 1.1 | 100.8 | 2.5 | 56.1 | 10.9 | 33.6 | 11.5 | 0.1 | 69.3 | 497.5 | 1.9 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 5.1 | 7.6 | 26.5 | 3.4 | 22.9 | 10.6 | 11.1 | 13.4 | 1.2 | 15.1 | 86.8 | 6.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 61.1 | 37.5 | 143.7 | 56.8 | 100.2 | 51.8 | 83.5 | 53.0 | 33.1 | 119.9 | 541.6 | 39.4 |
| LnGrp LOS | E | D | F | E | F | D | F | D | C | F | F | D |
| Approach Vol, veh/h | | 1328 | | | 1012 | | | 770 | | | 1643 | |
| Approach Delay, s/veh | | 84.6 | | | 78.5 | | | 62.8 | | | 385.3 | |
| Approach LOS | | F | | | E | | | E | | | F | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 25.0 | 40.0 | 17.1 | 40.0 | 25.0 | 40.0 | 14.8 | 42.4 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 21.3 | 36.0 | 13.1 | 36.0 | 23.0 | 28.7 | 9.8 | 38.4 |
| Green Ext Time (p_c), s | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 1.3 | 0.1 | 0.0 |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 7th Control Delay, s/veh | | 183.7 | |
| HCM 7th LOS | | F | |

| Intersection | |
|---|---|
| Int Delay, s/veh | 2 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 54 | 8 | 148 | 19 | 3 | 112 |
| Future Vol, veh/h | 54 | 8 | 148 | 19 | 3 | 112 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 59 | 9 | 161 | 21 | 3 | 122 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 299 | 171 | 0 | 0 | 182 | 0 |
| Stage 1 | 171 | - | - | - | - | - |
| Stage 2 | 128 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 692 | 873 | - | - | 1394 | - |
| Stage 1 | 859 | - | - | - | - | - |
| Stage 2 | 898 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 690 | 873 | - | - | 1394 | - |
| Mov Cap-2 Maneuver | 690 | - | - | - | - | - |
| Stage 1 | 859 | - | - | - | - | - |
| Stage 2 | 895 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | 10.61 | 0 | 0.2 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 709 | 47 | - |
| HCM Lane V/C Ratio | - | - | 0.095 | 0.002 | - |
| HCM Control Delay (s/veh) | - | - | 10.6 | 7.6 | 0 |
| HCM Lane LOS | - | - | B | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.3 | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.3 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 314 | 0 | 0 | 399 | 0 | 21 |
| Future Vol, veh/h | 314 | 0 | 0 | 399 | 0 | 21 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 341 | 0 | 0 | 434 | 0 | 23 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 341 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 701 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 701 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.31 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 701 | - | - | - |
| HCM Lane V/C Ratio | 0.033 | - | - | - |
| HCM Control Delay (s/veh) | 10.3 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.6 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | ↰ | ↑ | | ↱ |
| Traffic Vol, veh/h | 333 | 2 | 22 | 399 | 0 | 28 |
| Future Vol, veh/h | 333 | 2 | 22 | 399 | 0 | 28 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 362 | 2 | 24 | 434 | 0 | 30 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 364 | 0 | - | 363 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | 4.12 | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | 2.218 | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1194 | - | 0 | 682 |
| Stage 1 | - | - | - | - | 0 | - |
| Stage 2 | - | - | - | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 1194 | - | - | 682 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0.42 | 10.53 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 682 | - | - | 1194 | - |
| HCM Lane V/C Ratio | 0.045 | - | - | 0.02 | - |
| HCM Control Delay (s/veh) | 10.5 | - | - | 8.1 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.1 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.4 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | | ↑ | | ↱ |
| Traffic Vol, veh/h | 358 | 2 | 0 | 421 | 0 | 28 |
| Future Vol, veh/h | 358 | 2 | 0 | 421 | 0 | 28 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 389 | 2 | 0 | 458 | 0 | 30 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 390 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 658 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 658 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.73 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 658 | - | - | - |
| HCM Lane V/C Ratio | 0.046 | - | - | - |
| HCM Control Delay (s/veh) | 10.7 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

# HCM 7th Signalized Intersection Summary
## 1: Willow Avenue & Behymer Avenue



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 22 | 259 | 237 | 526 | 255 | 259 | 215 | 889 | 670 | 252 | 655 | 42 |
| Future Volume (veh/h) | 22 | 259 | 237 | 526 | 255 | 259 | 215 | 889 | 670 | 252 | 655 | 42 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 24 | 282 | 258 | 572 | 277 | 282 | 234 | 966 | 728 | 274 | 712 | 46 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 67 | 347 | 294 | 248 | 234 | 238 | 235 | 1800 | 559 | 237 | 1814 | 563 |
| Arrive On Green | 0.04 | 0.19 | 0.19 | 0.14 | 0.27 | 0.27 | 0.13 | 0.35 | 0.35 | 0.13 | 0.35 | 0.35 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1810 | 863 | 879 | 1795 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 24 | 282 | 258 | 572 | 0 | 559 | 234 | 966 | 728 | 274 | 712 | 46 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1810 | 0 | 1742 | 1795 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 1.5 | 16.2 | 17.8 | 15.4 | 0.0 | 30.4 | 14.6 | 16.9 | 39.3 | 14.7 | 11.6 | 2.1 |
| Cycle Q Clear(g_c), s | 1.5 | 16.2 | 17.8 | 15.4 | 0.0 | 30.4 | 14.6 | 16.9 | 39.3 | 14.7 | 11.6 | 2.1 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.50 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 67 | 347 | 294 | 248 | 0 | 472 | 235 | 1800 | 559 | 237 | 1814 | 563 |
| V/C Ratio(X) | 0.36 | 0.81 | 0.88 | 2.31 | 0.00 | 1.18 | 1.00 | 0.54 | 1.30 | 1.16 | 0.39 | 0.08 |
| Avail Cap(c_a), veh/h | 219 | 391 | 332 | 248 | 0 | 472 | 235 | 1800 | 559 | 237 | 1814 | 563 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 52.7 | 43.9 | 44.5 | 48.5 | 0.0 | 41.0 | 48.8 | 29.2 | 36.5 | 48.8 | 27.5 | 24.4 |
| Incr Delay (d2), s/veh | 1.2 | 11.6 | 21.2 | 600.3 | 0.0 | 102.9 | 57.5 | 0.8 | 148.9 | 107.6 | 0.4 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.7 | 8.4 | 8.5 | 48.1 | 0.0 | 26.1 | 10.3 | 7.0 | 37.7 | 13.7 | 4.9 | 0.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 54.0 | 55.5 | 65.7 | 648.8 | 0.0 | 143.9 | 106.3 | 30.1 | 185.4 | 156.4 | 28.0 | 24.6 |
| LnGrp LOS | D | E | E | F | | F | F | C | F | F | C | C |
| Approach Vol, veh/h | | 564 | | | 1131 | | | 1928 | | | 1032 | |
| Approach Delay, s/veh | | 60.1 | | | 399.2 | | | 98.0 | | | 61.9 | |
| Approach LOS | | E | | | F | | | F | | | E | |

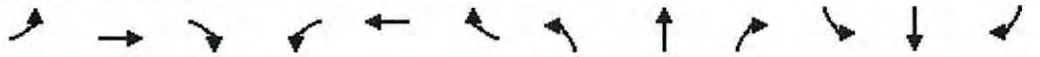
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 20.0 | 45.0 | 10.4 | 36.9 | 20.0 | 45.0 | 20.0 | 27.4 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 16.6 | 13.6 | 3.5 | 32.4 | 16.7 | 41.3 | 17.4 | 19.8 |
| Green Ext Time (p_c), s | 0.0 | 11.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 158.6 |
| HCM 7th LOS | F |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Benymer Project

## 2: Willow Avenue & Perrin Avenue

Cumulative Year WP_PM Peak Hour



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 449 | 255 | 333 | 246 | 210 | 107 | 273 | 1373 | 280 | 120 | 908 | 401 |
| Future Volume (veh/h) | 449 | 255 | 333 | 246 | 210 | 107 | 273 | 1373 | 280 | 120 | 908 | 401 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 473 | 268 | 351 | 259 | 221 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 435 | 415 | 352 | 297 | 271 | 229 | 251 | 1710 | 531 | 142 | 1803 | 560 |
| Arrive On Green | 0.24 | 0.22 | 0.22 | 0.16 | 0.14 | 0.14 | 0.07 | 0.33 | 0.33 | 0.08 | 0.35 | 0.35 |
| Sat Flow, veh/h | 1810 | 1900 | 1610 | 1810 | 1900 | 1610 | 3483 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 473 | 268 | 351 | 259 | 221 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1900 | 1610 | 1810 | 1900 | 1610 | 1742 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 26.7 | 14.3 | 24.2 | 15.5 | 12.6 | 7.2 | 8.0 | 29.0 | 16.8 | 7.7 | 16.4 | 25.8 |
| Cycle Q Clear(g_c), s | 26.7 | 14.3 | 24.2 | 15.5 | 12.6 | 7.2 | 8.0 | 29.0 | 16.8 | 7.7 | 16.4 | 25.8 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 435 | 415 | 352 | 297 | 271 | 229 | 251 | 1710 | 531 | 142 | 1803 | 560 |
| V/C Ratio(X) | 1.09 | 0.65 | 1.00 | 0.87 | 0.82 | 0.49 | 1.15 | 0.84 | 0.56 | 0.89 | 0.53 | 0.75 |
| Avail Cap(c_a), veh/h | 435 | 415 | 352 | 358 | 330 | 279 | 251 | 1726 | 536 | 142 | 1819 | 565 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 42.2 | 39.5 | 43.4 | 45.3 | 46.3 | 44.0 | 51.6 | 34.5 | 30.4 | 50.8 | 29.0 | 32.1 |
| Incr Delay (d2), s/veh | 69.2 | 5.5 | 47.5 | 22.9 | 17.8 | 4.5 | 101.7 | 4.9 | 3.2 | 43.6 | 0.8 | 8.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 19.9 | 7.1 | 14.0 | 8.8 | 7.2 | 3.1 | 7.0 | 12.7 | 6.7 | 5.2 | 6.9 | 10.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 111.4 | 45.0 | 90.9 | 68.2 | 64.1 | 48.4 | 153.3 | 39.4 | 33.6 | 94.4 | 29.9 | 40.1 |
| LnGrp LOS | F | D | F | E | E | D | F | D | C | F | C | D |
| Approach Vol, veh/h | | 1092 | | | 593 | | | 2027 | | | 1504 | |
| Approach Delay, s/veh | | 88.5 | | | 62.9 | | | 54.7 | | | 38.1 | |
| Approach LOS | | F | | | E | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.3 | 44.3 | 32.0 | 21.5 | 15.0 | 42.6 | 23.6 | 30.0 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 5.3 | 5.7 | 6.3 | 5.7 | 5.3 | 5.7 |
| Max Green Setting (Gmax), s | 8.0 | 39.0 | 26.7 | 19.3 | 8.7 | 37.3 | 22.0 | 24.0 |
| Max Q Clear Time (g_c+I1), s | 10.0 | 27.8 | 28.7 | 14.6 | 9.7 | 31.0 | 17.5 | 26.2 |
| Green Ext Time (p_c), s | 0.0 | 9.4 | 0.0 | 1.3 | 0.0 | 6.0 | 0.7 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 57.9 |
| HCM 7th LOS | E |

| Intersection | |
|---|---|
| Int Delay, s/veh | 674.5 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 783 | 85 | 59 | 622 | 36 | 101 | 74 | 59 | 10 | 75 | 1 |
| Future Vol, veh/h | 1 | 783 | 85 | 59 | 622 | 36 | 101 | 74 | 59 | 10 | 75 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 833 | 90 | 63 | 662 | 38 | 107 | 79 | 63 | 11 | 80 | 1 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 700 | 0 | 0 | 923 | 0 | 0 | 1707 | 1706 | 878 | 1681 | 1732 | 681 |
| Stage 1 | - | - | - | - | - | - | 880 | 880 | - | 806 | 806 | - |
| Stage 2 | - | - | - | - | - | - | 827 | 826 | - | 874 | 926 | - |
| Critical Hdwy | 4.12 | - | - | 4.1 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.2 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 897 | - | - | 748 | - | - | ~ 73 | 92 | 350 | 76 | 89 | 454 |
| Stage 1 | - | - | - | - | - | - | 344 | 368 | - | 378 | 397 | - |
| Stage 2 | - | - | - | - | - | - | 369 | 390 | - | 347 | 350 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 897 | - | - | 748 | - | - | ~ 62 | 79 | 350 | ~ 0 | ~ 76 | 454 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | ~ 62 | 79 | - | ~ 0 | ~ 76 | - |
| Stage 1 | - | - | - | - | - | - | 344 | 367 | - | 326 | 343 | - |
| Stage 2 | - | - | - | - | - | - | 243 | 336 | - | 223 | 349 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0.01 | 0.84 | $ 959.68 | $ 12330.88 |
| HCM LOS | | | F | F |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 86 | 2 | - | - | 147 | - | - | 4 |
| HCM Lane V/C Ratio | 2.896 | 0.001 | - | - | 0.084 | - | - | 24.239 |
| HCM Control Delay (s/veh) | $ 959.7 | 9 | 0 | - | 10.3 | 0 | | $ 12330.9 |
| HCM Lane LOS | F | A | A | - | B | A | - | F |
| HCM 95th %tile Q(veh) | 24.2 | 0 | - | - | 0.3 | - | - | 13.5 |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 604.9 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 17 | 497 | 180 | 35 | 505 | 223 | 260 | 628 | 64 | 226 | 310 | 15 |
| Future Vol, veh/h | 17 | 497 | 180 | 35 | 505 | 223 | 260 | 628 | 64 | 226 | 310 | 15 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 18 | 534 | 194 | 38 | 543 | 240 | 280 | 675 | 69 | 243 | 333 | 16 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 505.9 | 582.4 | 837 | 359.9 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 27% | 2% | 5% | 41% |
| Vol Thru, % | 66% | 72% | 66% | 56% |
| Vol Right, % | 7% | 26% | 29% | 3% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 952 | 694 | 763 | 551 |
| LT Vol | 260 | 17 | 35 | 226 |
| Through Vol | 628 | 497 | 505 | 310 |
| RT Vol | 64 | 180 | 223 | 15 |
| Lane Flow Rate | 1024 | 746 | 820 | 592 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 2.743 | 1.965 | 2.149 | 1.599 |
| Departure Headway (Hd) | 19.749 | 24.118 | 22.793 | 27.439 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 194 | 164 | 172 | 142 |
| Service Time | 17.749 | 22.118 | 20.793 | 25.439 |
| HCM Lane V/C Ratio | 5.278 | 4.549 | 4.767 | 4.169 |
| HCM Control Delay, s/veh | 837 | 505.9 | 582.4 | 359.9 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 44 | 22.8 | 27.3 | 15.1 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 2292.8 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 129 | 179 | 149 | 23 | 177 | 5 | 161 | 1100 | 18 | 4 | 616 | 111 |
| Future Vol, veh/h | 129 | 179 | 149 | 23 | 177 | 5 | 161 | 1100 | 18 | 4 | 616 | 111 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 136 | 188 | 157 | 24 | 186 | 5 | 169 | 1158 | 19 | 4 | 648 | 117 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 2305 | 2231 | 707 | 2257 | 2280 | 1167 | 765 | 0 | 0 | 1177 | 0 | 0 |
| Stage 1 | 715 | 715 | - | 1506 | 1506 | - | - | - | - | - | - | - |
| Stage 2 | 1590 | 1516 | - | 751 | 774 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | ~ 27 | ~ 43 | 435 | 29 | ~ 40 | 236 | 848 | - | - | 590 | - | - |
| Stage 1 | 422 | 434 | - | 151 | ~ 184 | - | - | - | - | - | - | - |
| Stage 2 | ~ 135 | ~ 182 | - | 403 | 408 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | ~ 11 | ~ 18 | 435 | ~ 8 | ~ 16 | 236 | 848 | - | - | 590 | - | - |
| Mov Cap-2 Maneuver | ~ 11 | ~ 18 | - | ~ 8 | ~ 16 | - | - | - | - | - | - | - |
| Stage 1 | 416 | 429 | - | 63 | ~ 77 | - | - | - | - | - | - | - |
| Stage 2 | - | ~ 76 | - | 143 | 403 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | $ 10462.47 | $ 6553.01 | 1.3 | 0.06 |
| HCM LOS | F | F | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 226 | - | - | 21 | 15 | 10 | - | - |
| HCM Lane V/C Ratio | 0.2 | - | - | 23.449 | 14.462 | 0.007 | - | - |
| HCM Control Delay (s/veh) | 10.3 | 0 | $ | 10462.5 | $ 6553 | 11.1 | 0 | - |
| HCM Lane LOS | B | A | - | F | F | B | A | - |
| HCM 95th %tile Q(veh) | 0.7 | - | - | 60.5 | 28 | 0 | - | - |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

# HCM 7th Signalized Intersection Summary
## 6: Minnewawa Avenue & Shepherd Avenue



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 322 | 511 | 441 | 48 | 383 | 329 | 473 | 1097 | 90 | 199 | 692 | 230 |
| Future Volume (veh/h) | 322 | 511 | 441 | 48 | 383 | 329 | 473 | 1097 | 90 | 199 | 692 | 230 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 1155 | 95 | 209 | 728 | 242 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 300 | 1215 | 542 | 131 | 462 | 392 | 295 | 562 | 476 | 235 | 497 | 421 |
| Arrive On Green | 0.17 | 0.34 | 0.34 | 0.07 | 0.24 | 0.24 | 0.17 | 0.30 | 0.30 | 0.13 | 0.27 | 0.27 |
| Sat Flow, veh/h | 1810 | 3610 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 1155 | 95 | 209 | 728 | 242 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1805 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 21.0 | 14.7 | 34.1 | 3.4 | 25.8 | 26.3 | 21.0 | 38.1 | 5.7 | 14.8 | 34.0 | 16.9 |
| Cycle Q Clear(g_c), s | 21.0 | 14.7 | 34.1 | 3.4 | 25.8 | 26.3 | 21.0 | 38.1 | 5.7 | 14.8 | 34.0 | 16.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 300 | 1215 | 542 | 131 | 462 | 392 | 295 | 562 | 476 | 235 | 497 | 421 |
| V/C Ratio(X) | 1.13 | 0.44 | 0.86 | 0.39 | 0.87 | 0.88 | 1.69 | 2.05 | 0.20 | 0.89 | 1.46 | 0.57 |
| Avail Cap(c_a), veh/h | 300 | 1215 | 542 | 300 | 509 | 432 | 295 | 562 | 476 | 293 | 497 | 421 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 52.9 | 32.8 | 39.2 | 56.2 | 46.1 | 46.3 | 52.9 | 44.4 | 33.0 | 54.1 | 46.4 | 40.2 |
| Incr Delay (d2), s/veh | 92.4 | 0.4 | 13.3 | 0.7 | 15.3 | 19.0 | 324.3 | 480.6 | 0.2 | 20.7 | 219.6 | 2.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 16.9 | 6.3 | 14.8 | 1.5 | 13.7 | 12.2 | 35.7 | 92.0 | 2.1 | 7.9 | 45.9 | 6.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 145.3 | 33.2 | 52.5 | 56.9 | 61.4 | 65.3 | 377.3 | 525.0 | 33.2 | 74.8 | 266.1 | 42.5 |
| LnGrp LOS | F | C | D | E | E | E | F | F | C | E | F | D |
| Approach Vol, veh/h | | 1341 | | | 800 | | | 1748 | | | 1179 | |
| Approach Delay, s/veh | | 68.2 | | | 62.8 | | | 456.2 | | | 186.3 | |
| Approach LOS | | E | | | E | | | F | | | F | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 25.0 | 40.0 | 25.0 | 36.9 | 20.9 | 44.1 | 13.2 | 48.7 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 23.0 | 36.0 | 23.0 | 28.3 | 16.8 | 40.1 | 5.4 | 36.1 |
| Green Ext Time (p_c), s | 0.0 | 0.0 | 0.0 | 2.6 | 0.1 | 0.0 | 0.0 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 228.6 |
| HCM 7th LOS | F |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.2 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 36 | 6 | 175 | 61 | 9 | 197 |
| Future Vol, veh/h | 36 | 6 | 175 | 61 | 9 | 197 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 39 | 7 | 190 | 66 | 10 | 214 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 457 | 223 | 0 | 0 | 257 | 0 |
| Stage 1 | 223 | - | - | - | - | - |
| Stage 2 | 234 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 562 | 816 | - | - | 1308 | - |
| Stage 1 | 814 | - | - | - | - | - |
| Stage 2 | 805 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 557 | 816 | - | - | 1308 | - |
| Mov Cap-2 Maneuver | 557 | - | - | - | - | - |
| Stage 1 | 814 | - | - | - | - | - |
| Stage 2 | 798 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | 11.7 | 0 | 0.34 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 583 | 79 | - |
| HCM Lane V/C Ratio | - | - | 0.078 | 0.007 | - |
| HCM Control Delay (s/veh) | - | - | 11.7 | 7.8 | 0 |
| HCM Lane LOS | - | - | B | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.3 | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.2 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 389 | 2 | 0 | 427 | 0 | 14 |
| Future Vol, veh/h | 389 | 2 | 0 | 427 | 0 | 14 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 423 | 2 | 0 | 464 | 0 | 15 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | 888 | 424 |
| Stage 1 | - | - | - | - | 424 | - |
| Stage 2 | - | - | - | - | 464 | - |
| Critical Hdwy | - | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | - | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 314 | 630 |
| Stage 1 | - | - | 0 | - | 660 | - |
| Stage 2 | - | - | 0 | - | 633 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | 314 | 630 |
| Mov Cap-2 Maneuver | - | - | - | - | 314 | - |
| Stage 1 | - | - | - | - | 660 | - |
| Stage 2 | - | - | - | - | 633 | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.85 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 630 | - | - | - |
| HCM Lane V/C Ratio | 0.024 | - | - | - |
| HCM Control Delay (s/veh) | 10.9 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.9 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | | ↑ | ↱ | |
| Traffic Vol, veh/h | 397 | 6 | 71 | 427 | 0 | 19 |
| Future Vol, veh/h | 397 | 6 | 71 | 427 | 0 | 19 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 432 | 7 | 77 | 464 | 0 | 21 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 438 | 0 | 1053 | 435 |
| Stage 1 | - | - | - | - | 435 | - |
| Stage 2 | - | - | - | - | 618 | - |
| Critical Hdwy | - | - | 4.12 | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1122 | - | 250 | 621 |
| Stage 1 | - | - | - | - | 653 | - |
| Stage 2 | - | - | - | - | 537 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 1122 | - | 227 | 621 |
| Mov Cap-2 Maneuver | - | - | - | - | 227 | - |
| Stage 1 | - | - | - | - | 653 | - |
| Stage 2 | - | - | - | - | 488 | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 1.2 | 10.99 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 621 | - | - | 1122 | - |
| HCM Lane V/C Ratio | 0.033 | - | - | 0.069 | - |
| HCM Control Delay (s/veh) | 11 | - | - | 8.4 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.2 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.2 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | | ↑ | ↱ | |
| Traffic Vol, veh/h | 408 | 8 | 0 | 498 | 0 | 19 |
| Future Vol, veh/h | 408 | 8 | 0 | 498 | 0 | 19 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 443 | 9 | 0 | 541 | 0 | 21 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | 989 | 448 |
| Stage 1 | - | - | - | - | 448 | - |
| Stage 2 | - | - | - | - | 541 | - |
| Critical Hdwy | - | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | - | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 274 | 611 |
| Stage 1 | - | - | 0 | - | 644 | - |
| Stage 2 | - | - | 0 | - | 583 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | 274 | 611 |
| Mov Cap-2 Maneuver | - | - | - | - | 274 | - |
| Stage 1 | - | - | - | - | 644 | - |
| Stage 2 | - | - | - | - | 583 | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 11.1 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 611 | - | - | - |
| HCM Lane V/C Ratio | 0.034 | - | - | - |
| HCM Control Delay (s/veh) | 11.1 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Existing Year NP_AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 80 | 129 | 182 | 32 | 135 | 135 | 103 | 693 | 31 | 66 | 611 | 54 |
| Future Volume (veh/h) | 80 | 129 | 182 | 32 | 135 | 135 | 103 | 693 | 31 | 66 | 611 | 54 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 82 | 133 | 188 | 33 | 139 | 139 | 106 | 714 | 32 | 68 | 630 | 56 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 157 | 491 | 416 | 95 | 178 | 178 | 173 | 1511 | 469 | 145 | 1423 | 442 |
| Arrive On Green | 0.09 | 0.26 | 0.26 | 0.05 | 0.21 | 0.21 | 0.10 | 0.30 | 0.30 | 0.08 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1767 | 1856 | 1572 | 1781 | 858 | 858 | 1781 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 82 | 133 | 188 | 33 | 0 | 278 | 106 | 714 | 32 | 68 | 630 | 56 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1856 | 1572 | 1781 | 0 | 1716 | 1781 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 3.2 | 4.1 | 7.3 | 1.3 | 0.0 | 11.2 | 4.2 | 8.3 | 1.1 | 2.7 | 7.4 | 1.9 |
| Cycle Q Clear(g_c), s | 3.2 | 4.1 | 7.3 | 1.3 | 0.0 | 11.2 | 4.2 | 8.3 | 1.1 | 2.7 | 7.4 | 1.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.50 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 157 | 491 | 416 | 95 | 0 | 356 | 173 | 1511 | 469 | 145 | 1423 | 442 |
| V/C Ratio(X) | 0.52 | 0.27 | 0.45 | 0.35 | 0.00 | 0.78 | 0.61 | 0.47 | 0.07 | 0.47 | 0.44 | 0.13 |
| Avail Cap(c_a), veh/h | 335 | 599 | 508 | 377 | 0 | 554 | 360 | 2757 | 856 | 357 | 2735 | 849 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 31.7 | 21.2 | 22.3 | 33.2 | 0.0 | 27.3 | 31.6 | 21.0 | 18.4 | 31.9 | 21.5 | 19.5 |
| Incr Delay (d2), s/veh | 1.0 | 0.3 | 0.8 | 2.1 | 0.0 | 8.1 | 1.3 | 0.2 | 0.1 | 0.9 | 0.7 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.3 | 1.7 | 2.5 | 0.6 | 0.0 | 5.0 | 1.8 | 3.2 | 0.4 | 1.1 | 2.9 | 0.7 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 32.7 | 21.5 | 23.1 | 35.4 | 0.0 | 35.4 | 32.9 | 21.2 | 18.5 | 32.8 | 22.2 | 19.9 |
| LnGrp LOS | C | C | C | D | | D | C | C | B | C | C | B |
| Approach Vol, veh/h | | 403 | | | 311 | | | 852 | | | 754 | |
| Approach Delay, s/veh | | 24.5 | | | 35.4 | | | 22.6 | | | 23.0 | |
| Approach LOS | | C | | | D | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.4 | 26.2 | 12.7 | 21.6 | 11.3 | 27.2 | 8.5 | 25.8 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 6.2 | 9.4 | 5.2 | 13.2 | 4.7 | 10.3 | 3.3 | 9.3 |
| Green Ext Time (p_c), s | 0.1 | 11.0 | 0.0 | 1.9 | 0.0 | 5.6 | 0.0 | 1.1 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 24.8 |
| HCM 7th LOS | C |



| Movement | EBL | EBR | NBL | NBT | SBU | SBT | SBR |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Volume (veh/h) | 165 | 167 | 88 | 685 | 0 | 758 | 99 |
| Future Volume (veh/h) | 165 | 167 | 88 | 685 | 0 | 758 | 99 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | | 1856 | 1856 |
| Adj Flow Rate, veh/h | 170 | 172 | 91 | 706 | | 781 | 102 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | | 3 | 3 |
| Cap, veh/h | 329 | 293 | 386 | 3098 | | 1903 | 591 |
| Arrive On Green | 0.18 | 0.18 | 0.11 | 0.61 | | 0.38 | 0.38 |
| Sat Flow, veh/h | 1781 | 1585 | 3456 | 5274 | | 5233 | 1572 |
| Grp Volume(v), veh/h | 170 | 172 | 91 | 706 | | 781 | 102 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1585 | 1728 | 1702 | | 1689 | 1572 |
| Q Serve(g_s), s | 4.5 | 5.2 | 1.3 | 3.3 | | 6.0 | 2.3 |
| Cycle Q Clear(g_c), s | 4.5 | 5.2 | 1.3 | 3.3 | | 6.0 | 2.3 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | | 1.00 |
| Lane Grp Cap(c), veh/h | 329 | 293 | 386 | 3098 | | 1903 | 591 |
| V/C Ratio(X) | 0.52 | 0.59 | 0.24 | 0.23 | | 0.41 | 0.17 |
| Avail Cap(c_a), veh/h | 834 | 742 | 898 | 3098 | | 2814 | 874 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 19.4 | 19.7 | 21.4 | 4.7 | | 12.2 | 11.0 |
| Incr Delay (d2), s/veh | 3.4 | 5.1 | 0.1 | 0.1 | | 0.5 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.9 | 2.1 | 0.5 | 0.8 | | 2.0 | 0.8 |
| Unsig. Movement Delay, s/veh | | | | | | | |
| LnGrp Delay(d), s/veh | 22.8 | 24.8 | 21.5 | 4.9 | | 12.6 | 11.5 |
| LnGrp LOS | C | C | C | A | | B | B |
| Approach Vol, veh/h | 342 | | | 797 | | 883 | |
| Approach Delay, s/veh | 23.8 | | | 6.8 | | 12.5 | |
| Approach LOS | C | | | A | | B | |

| Timer - Assigned Phs | 1 | 2 | | | 6 | 8 |
|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.2 | 25.5 | | | 37.7 | 15.0 |
| Change Period (Y+Rc), s | 6.3 | 5.7 | | | 5.7 | 5.3 |
| Max Green Setting (Gmax), s | 13.7 | 29.3 | | | 29.3 | 24.7 |
| Max Q Clear Time (g_c+I1), s | 13.3 | 8.0 | | | 5.3 | 7.2 |
| Green Ext Time (p_c), s | 0.1 | 11.8 | | | 10.6 | 2.6 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 12.1 |
| HCM 7th LOS | B |

Notes

User approved ignoring U-Turning movement.

| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 0 | 224 | 0 | 0 | 344 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| Future Vol, veh/h | 0 | 224 | 0 | 0 | 344 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 277 | 0 | 0 | 425 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 426 | 0 | - | - | - | 0 | 701 | 702 | 277 | 702 | 702 | 425 |
| Stage 1 | - | - | - | - | - | - | 277 | 277 | - | 425 | 425 | - |
| Stage 2 | - | - | - | - | - | - | 425 | 426 | - | 277 | 277 | - |
| Critical Hdwy | 4.13 | - | - | - | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.227 | - | - | - | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 1128 | - | 0 | 0 | - | - | 356 | 365 | 767 | 356 | 365 | 633 |
| Stage 1 | - | - | 0 | 0 | - | - | 734 | 685 | - | 611 | 590 | - |
| Stage 2 | - | - | 0 | 0 | - | - | 611 | 589 | - | 734 | 685 | - |
| Platoon blocked, % | | - | | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1128 | - | - | - | - | - | 356 | 365 | 767 | 356 | 365 | 633 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 356 | 365 | - | 356 | 365 | - |
| Stage 1 | - | - | - | - | - | - | 734 | 685 | - | 611 | 590 | - |
| Stage 2 | - | - | - | - | - | - | 611 | 589 | - | 734 | 685 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 0 | 15.16 |
| HCM LOS | | | A | C |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|
| Capacity (veh/h) | - | 1128 | - | - | - | 356 |
| HCM Lane V/C Ratio | - | - | - | - | - | 0.003 |
| HCM Control Delay (s/veh) | 0 | 0 | - | - | - | 15.2 |
| HCM Lane LOS | A | A | - | - | - | C |
| HCM 95th %tile Q(veh) | - | 0 | - | - | - | 0 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 59.5 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 4 | 155 | 67 | 25 | 220 | 253 | 65 | 240 | 19 | 175 | 207 | 3 |
| Future Vol, veh/h | 4 | 155 | 67 | 25 | 220 | 253 | 65 | 240 | 19 | 175 | 207 | 3 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.92 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 4 | 160 | 69 | 26 | 227 | 261 | 67 | 261 | 20 | 180 | 213 | 3 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 23.1 | 96.7 | 38.7 | 50.8 |
| HCM LOS | C | F | E | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 20% | 2% | 5% | 45% |
| Vol Thru, % | 74% | 69% | 44% | 54% |
| Vol Right, % | 6% | 30% | 51% | 1% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 324 | 226 | 498 | 385 |
| LT Vol | 65 | 4 | 25 | 175 |
| Through Vol | 240 | 155 | 220 | 207 |
| RT Vol | 19 | 67 | 253 | 3 |
| Lane Flow Rate | 347 | 233 | 513 | 397 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.802 | 0.562 | 1.093 | 0.892 |
| Departure Headway (Hd) | 8.689 | 9.064 | 7.664 | 8.581 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 420 | 401 | 472 | 425 |
| Service Time | 6.689 | 7.064 | 5.707 | 6.581 |
| HCM Lane V/C Ratio | 0.826 | 0.581 | 1.087 | 0.934 |
| HCM Control Delay, s/veh | 38.7 | 23.1 | 96.7 | 50.8 |
| HCM Lane LOS | E | C | F | F |
| HCM 95th-tile Q | 7.2 | 3.3 | 16.8 | 9.3 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.4 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 8 | 0 | 3 | 4 | 0 | 2 | 3 | 309 | 11 | 2 | 337 | 6 |
| Future Vol, veh/h | 8 | 0 | 3 | 4 | 0 | 2 | 3 | 309 | 11 | 2 | 337 | 6 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 9 | 0 | 3 | 4 | 0 | 2 | 3 | 340 | 12 | 2 | 370 | 7 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 724 | 736 | 374 | 727 | 734 | 346 | 377 | 0 | 0 | 352 | 0 | 0 |
| Stage 1 | 378 | 378 | - | 352 | 352 | - | - | - | - | - | - | - |
| Stage 2 | 346 | 358 | - | 375 | 381 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 341 | 346 | 673 | 339 | 348 | 697 | 1176 | - | - | 1202 | - | - |
| Stage 1 | 644 | 615 | - | 665 | 631 | - | - | - | - | - | - | - |
| Stage 2 | 670 | 628 | - | 646 | 613 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 338 | 344 | 673 | 336 | 346 | 697 | 1176 | - | - | 1202 | - | - |
| Mov Cap-2 Maneuver | 338 | 344 | - | 336 | 346 | - | - | - | - | - | - | - |
| Stage 1 | 642 | 614 | - | 662 | 629 | - | - | - | - | - | - | - |
| Stage 2 | 665 | 625 | - | 642 | 612 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 14.5 | 14.01 | 0.07 | 0.05 |
| HCM LOS | B | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 17 | - | - | 391 | 406 | 10 | - | - |
| HCM Lane V/C Ratio | 0.003 | - | - | 0.031 | 0.016 | 0.002 | - | - |
| HCM Control Delay (s/veh) | 8.1 | 0 | - | 14.5 | 14 | 8 | 0 | - |
| HCM Lane LOS | A | A | - | B | B | A | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0.1 | 0 | 0 | - | - |

HCM 7th Signalized Intersection Summary De Young Properties Peach and Benjamin Project
6: Minnewawa Avenue & Shepherd Avenue Existing Year NP_AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 34 | 318 | 128 | 14 | 265 | 137 | 120 | 152 | 18 | 91 | 193 | 34 |
| Future Volume (veh/h) | 34 | 318 | 128 | 14 | 265 | 137 | 120 | 152 | 18 | 91 | 193 | 34 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 37 | 346 | 139 | 15 | 288 | 149 | 130 | 165 | 20 | 99 | 210 | 37 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 150 | 978 | 436 | 72 | 432 | 366 | 293 | 348 | 295 | 267 | 320 | 272 |
| Arrive On Green | 0.09 | 0.28 | 0.28 | 0.04 | 0.23 | 0.23 | 0.17 | 0.19 | 0.19 | 0.15 | 0.17 | 0.17 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 37 | 346 | 139 | 15 | 288 | 149 | 130 | 165 | 20 | 99 | 210 | 37 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 1.1 | 4.6 | 4.1 | 0.5 | 8.2 | 4.7 | 3.9 | 4.6 | 0.6 | 2.9 | 6.1 | 1.2 |
| Cycle Q Clear(g_c), s | 1.1 | 4.6 | 4.1 | 0.5 | 8.2 | 4.7 | 3.9 | 4.6 | 0.6 | 2.9 | 6.1 | 1.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 150 | 978 | 436 | 72 | 432 | 366 | 293 | 348 | 295 | 267 | 320 | 272 |
| V/C Ratio(X) | 0.25 | 0.35 | 0.32 | 0.21 | 0.67 | 0.41 | 0.44 | 0.47 | 0.07 | 0.37 | 0.66 | 0.14 |
| Avail Cap(c_a), veh/h | 637 | 2058 | 918 | 637 | 1083 | 918 | 637 | 1083 | 918 | 637 | 1083 | 918 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 24.9 | 16.9 | 16.7 | 27.0 | 20.3 | 18.9 | 21.9 | 21.1 | 19.5 | 22.2 | 22.5 | 20.4 |
| Incr Delay (d2), s/veh | 0.3 | 0.3 | 0.6 | 0.5 | 2.9 | 1.2 | 0.4 | 1.1 | 0.1 | 0.3 | 3.2 | 0.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.4 | 1.6 | 1.3 | 0.2 | 3.3 | 1.5 | 1.4 | 1.8 | 0.2 | 1.2 | 2.8 | 0.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 25.2 | 17.2 | 17.3 | 27.6 | 23.2 | 20.1 | 22.3 | 22.2 | 19.6 | 22.6 | 25.7 | 20.7 |
| LnGrp LOS | C | B | B | C | C | C | C | C | B | C | C | C |
| Approach Vol, veh/h | | 522 | | | 452 | | | 315 | | | 346 | |
| Approach Delay, s/veh | | 17.8 | | | 22.3 | | | 22.0 | | | 24.3 | |
| Approach LOS | | B | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.7 | 16.1 | 9.0 | 19.6 | 12.8 | 16.9 | 6.4 | 22.1 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 5.9 | 8.1 | 3.1 | 10.2 | 4.9 | 6.6 | 2.5 | 6.6 |
| Green Ext Time (p_c), s | 0.1 | 1.9 | 0.0 | 3.4 | 0.1 | 0.9 | 0.0 | 3.9 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 21.2 |
| HCM 7th LOS | C |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Existing Year NP_PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 21 | 104 | 121 | 55 | 138 | 119 | 119 | 731 | 54 | 95 | 560 | 40 |
| Future Volume (veh/h) | 21 | 104 | 121 | 55 | 138 | 119 | 119 | 731 | 54 | 95 | 560 | 40 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 24 | 121 | 141 | 64 | 160 | 138 | 138 | 850 | 63 | 110 | 651 | 47 |
| Peak Hour Factor | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 74 | 369 | 313 | 141 | 200 | 173 | 178 | 1760 | 546 | 171 | 1750 | 543 |
| Arrive On Green | 0.04 | 0.20 | 0.20 | 0.08 | 0.21 | 0.21 | 0.10 | 0.34 | 0.34 | 0.09 | 0.34 | 0.34 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1810 | 942 | 812 | 1795 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 24 | 121 | 141 | 64 | 0 | 298 | 138 | 850 | 63 | 110 | 651 | 47 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1810 | 0 | 1754 | 1795 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 1.0 | 4.3 | 6.0 | 2.6 | 0.0 | 12.3 | 5.7 | 10.0 | 2.1 | 4.5 | 7.3 | 1.5 |
| Cycle Q Clear(g_c), s | 1.0 | 4.3 | 6.0 | 2.6 | 0.0 | 12.3 | 5.7 | 10.0 | 2.1 | 4.5 | 7.3 | 1.5 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.46 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 74 | 369 | 313 | 141 | 0 | 373 | 178 | 1760 | 546 | 171 | 1750 | 543 |
| V/C Ratio(X) | 0.32 | 0.33 | 0.45 | 0.46 | 0.00 | 0.80 | 0.78 | 0.48 | 0.12 | 0.64 | 0.37 | 0.09 |
| Avail Cap(c_a), veh/h | 321 | 574 | 486 | 364 | 0 | 538 | 345 | 2641 | 820 | 347 | 2661 | 826 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 35.6 | 26.4 | 27.1 | 33.8 | 0.0 | 28.6 | 33.7 | 19.9 | 17.3 | 33.4 | 19.2 | 17.3 |
| Incr Delay (d2), s/veh | 0.9 | 0.6 | 1.2 | 0.9 | 0.0 | 9.4 | 2.8 | 0.7 | 0.3 | 1.5 | 0.4 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.4 | 1.8 | 2.2 | 1.1 | 0.0 | 5.8 | 2.6 | 3.9 | 0.7 | 2.0 | 2.8 | 0.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 36.6 | 27.0 | 28.3 | 34.6 | 0.0 | 38.0 | 36.4 | 20.5 | 17.6 | 35.0 | 19.7 | 17.5 |
| LnGrp LOS | D | C | C | C | | D | D | C | B | C | B | B |
| Approach Vol, veh/h | | 286 | | | 362 | | | 1051 | | | 808 | |
| Approach Delay, s/veh | | 28.4 | | | 37.4 | | | 22.4 | | | 21.6 | |
| Approach LOS | | C | | | D | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.9 | 31.5 | 9.4 | 22.8 | 12.5 | 31.9 | 10.6 | 21.6 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 7.7 | 9.3 | 3.0 | 14.3 | 6.5 | 12.0 | 4.6 | 8.0 |
| Green Ext Time (p_c), s | 0.1 | 11.3 | 0.0 | 1.9 | 0.1 | 14.2 | 0.0 | 1.1 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 25.0 |
| HCM 7th LOS | C |



| Movement | EBL | EBR | NBL | NBT | SBU | SBT | SBR |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Volume (veh/h) | 114 | 193 | 199 | 855 | 0 | 671 | 89 |
| Future Volume (veh/h) | 114 | 193 | 199 | 855 | 0 | 671 | 89 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | | 1856 | 1856 |
| Adj Flow Rate, veh/h | 120 | 203 | 209 | 900 | | 706 | 94 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | | 0.95 | 0.95 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | | 3 | 3 |
| Cap, veh/h | 348 | 310 | 484 | 3044 | | 1727 | 536 |
| Arrive On Green | 0.20 | 0.20 | 0.14 | 0.60 | | 0.34 | 0.34 |
| Sat Flow, veh/h | 1781 | 1585 | 3456 | 5274 | | 5233 | 1572 |
| Grp Volume(v), veh/h | 120 | 203 | 209 | 900 | | 706 | 94 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1585 | 1728 | 1702 | | 1689 | 1572 |
| Q Serve(g_s), s | 3.2 | 6.5 | 3.0 | 4.7 | | 5.8 | 2.3 |
| Cycle Q Clear(g_c), s | 3.2 | 6.5 | 3.0 | 4.7 | | 5.8 | 2.3 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | | 1.00 |
| Lane Grp Cap(c), veh/h | 348 | 310 | 484 | 3044 | | 1727 | 536 |
| V/C Ratio(X) | 0.34 | 0.65 | 0.43 | 0.30 | | 0.41 | 0.18 |
| Avail Cap(c_a), veh/h | 791 | 704 | 865 | 3044 | | 2711 | 842 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 19.0 | 20.3 | 21.5 | 5.4 | | 13.8 | 12.6 |
| Incr Delay (d2), s/veh | 1.6 | 6.3 | 0.2 | 0.2 | | 0.5 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.3 | 2.6 | 1.1 | 1.2 | | 2.0 | 0.8 |
| Unsig. Movement Delay, s/veh | | | | | | | |
| LnGrp Delay(d), s/veh | 20.6 | 26.6 | 21.8 | 5.6 | | 14.3 | 13.2 |
| LnGrp LOS | C | C | C | A | | B | B |
| Approach Vol, veh/h | 323 | | | 1109 | | 800 | |
| Approach Delay, s/veh | 24.4 | | | 8.7 | | 14.2 | |
| Approach LOS | C | | | A | | B | |

| Timer - Assigned Phs | 1 | 2 | | | 6 | 8 |
|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 14.0 | 24.4 | | | 38.3 | 16.4 |
| Change Period (Y+Rc), s | 6.3 | 5.7 | | | 5.7 | 5.7 |
| Max Green Setting (Gmax), s | 13.7 | 29.3 | | | 29.3 | 24.3 |
| Max Q Clear Time (g_c+I1), s | 5.0 | 7.8 | | | 6.7 | 8.5 |
| Green Ext Time (p_c), s | 0.2 | 10.8 | | | 12.9 | 2.3 |

| Intersection Summary | | |
|---|---|---|
| HCM 7th Control Delay, s/veh | 12.9 | |
| HCM 7th LOS | B | |

Notes

User approved ignoring U-Turning movement.

| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 1 | 241 | 0 | 0 | 293 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Future Vol, veh/h | 1 | 241 | 0 | 0 | 293 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 256 | 0 | 0 | 312 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 312 | 0 | - | - | - | 0 | 570 | 570 | 256 | 570 | 570 | 312 |
| Stage 1 | - | - | - | - | - | - | 259 | 259 | - | 312 | 312 | - |
| Stage 2 | - | - | - | - | - | - | 312 | 312 | - | 259 | 259 | - |
| Critical Hdwy | 4.12 | - | - | - | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.218 | - | - | - | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 1249 | - | 0 | 0 | - | - | 435 | 434 | 787 | 435 | 434 | 733 |
| Stage 1 | - | - | 0 | 0 | - | - | 751 | 698 | - | 703 | 661 | - |
| Stage 2 | - | - | 0 | 0 | - | - | 703 | 661 | - | 751 | 698 | - |
| Platoon blocked, % | | - | | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1249 | - | - | - | - | - | 434 | 434 | 787 | 435 | 434 | 733 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 434 | 434 | - | 435 | 434 | - |
| Stage 1 | - | - | - | - | - | - | 750 | 697 | - | 703 | 661 | - |
| Stage 2 | - | - | - | - | - | - | 702 | 661 | - | 750 | 697 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0.03 | 0 | 0 | 9.92 |
| HCM LOS | | | A | A |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|
| Capacity (veh/h) | - | 7 | - | - | - | 733 |
| HCM Lane V/C Ratio | - | 0.001 | - | - | - | 0.001 |
| HCM Control Delay (s/veh) | 0 | 7.9 | 0 | - | - | 9.9 |
| HCM Lane LOS | A | A | A | - | - | A |
| HCM 95th %tile Q(veh) | - | 0 | - | - | - | 0 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 56.1 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 2 | 192 | 43 | 15 | 225 | 179 | 61 | 259 | 30 | 187 | 168 | 2 |
| Future Vol, veh/h | 2 | 192 | 43 | 15 | 225 | 179 | 61 | 259 | 30 | 187 | 168 | 2 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 2 | 206 | 46 | 16 | 242 | 192 | 66 | 278 | 32 | 201 | 181 | 2 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 27.2 | 77 | 50.8 | 56 |
| HCM LOS | D | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 17% | 1% | 4% | 52% |
| Vol Thru, % | 74% | 81% | 54% | 47% |
| Vol Right, % | 9% | 18% | 43% | 1% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 350 | 237 | 419 | 357 |
| LT Vol | 61 | 2 | 15 | 187 |
| Through Vol | 259 | 192 | 225 | 168 |
| RT Vol | 30 | 43 | 179 | 2 |
| Lane Flow Rate | 376 | 255 | 451 | 384 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.889 | 0.638 | 1.02 | 0.916 |
| Departure Headway (Hd) | 8.714 | 9.246 | 8.148 | 8.796 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 418 | 392 | 451 | 415 |
| Service Time | 6.714 | 7.246 | 6.148 | 6.796 |
| HCM Lane V/C Ratio | 0.9 | 0.651 | 1 | 0.925 |
| HCM Control Delay, s/veh | 50.8 | 27.2 | 77 | 56 |
| HCM Lane LOS | F | D | F | F |
| HCM 95th-tile Q | 9.2 | 4.3 | 13.6 | 9.9 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.3 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 0 | 0 | 2 | 9 | 0 | 2 | 0 | 338 | 2 | 0 | 250 | 1 |
| Future Vol, veh/h | 0 | 0 | 2 | 9 | 0 | 2 | 0 | 338 | 2 | 0 | 250 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 0 | 0 | 2 | 9 | 0 | 2 | 0 | 356 | 2 | 0 | 263 | 1 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 619 | 622 | 264 | 620 | 621 | 357 | 264 | 0 | 0 | 358 | 0 | 0 |
| Stage 1 | 264 | 264 | - | 357 | 357 | - | - | - | - | - | - | - |
| Stage 2 | 356 | 358 | - | 263 | 264 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 401 | 403 | 775 | 400 | 403 | 687 | 1300 | - | - | 1195 | - | - |
| Stage 1 | 741 | 690 | - | 661 | 628 | - | - | - | - | - | - | - |
| Stage 2 | 662 | 628 | - | 742 | 690 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 399 | 403 | 775 | 399 | 403 | 687 | 1300 | - | - | 1195 | - | - |
| Mov Cap-2 Maneuver | 399 | 403 | - | 399 | 403 | - | - | - | - | - | - | - |
| Stage 1 | 741 | 690 | - | 661 | 628 | - | - | - | - | - | - | - |
| Stage 2 | 660 | 628 | - | 740 | 690 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 9.66 | 13.56 | 0 | 0 |
| HCM LOS | A | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 1300 | - | - | 775 | 432 | 1195 | - | - |
| HCM Lane V/C Ratio | - | - | - | 0.003 | 0.027 | - | - | - |
| HCM Control Delay (s/veh) | 0 | - | - | 9.7 | 13.6 | 0 | - | - |
| HCM Lane LOS | A | - | - | A | B | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | 0.1 | 0 | - | - |

# HCM 7th Signalized Intersection Summary
## 6: Minnewawa Avenue & Shepherd Avenue

De Young Properties Peach and Benymer Project
Existing Year NP_PM Peak Hour



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 44 | 295 | 111 | 6 | 240 | 88 | 129 | 205 | 24 | 48 | 169 | 36 |
| Future Volume (veh/h) | 44 | 295 | 111 | 6 | 240 | 88 | 129 | 205 | 24 | 48 | 169 | 36 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 46 | 311 | 117 | 6 | 253 | 93 | 136 | 216 | 25 | 51 | 178 | 38 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 183 | 1047 | 467 | 32 | 393 | 333 | 311 | 415 | 352 | 191 | 288 | 244 |
| Arrive On Green | 0.10 | 0.29 | 0.29 | 0.02 | 0.21 | 0.21 | 0.17 | 0.22 | 0.22 | 0.11 | 0.16 | 0.16 |
| Sat Flow, veh/h | 1810 | 3610 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 46 | 311 | 117 | 6 | 253 | 93 | 136 | 216 | 25 | 51 | 178 | 38 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1805 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 1.3 | 3.7 | 3.1 | 0.2 | 6.7 | 2.7 | 3.8 | 5.6 | 0.7 | 1.5 | 4.9 | 1.2 |
| Cycle Q Clear(g_c), s | 1.3 | 3.7 | 3.1 | 0.2 | 6.7 | 2.7 | 3.8 | 5.6 | 0.7 | 1.5 | 4.9 | 1.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 183 | 1047 | 467 | 32 | 393 | 333 | 311 | 415 | 352 | 191 | 288 | 244 |
| V/C Ratio(X) | 0.25 | 0.30 | 0.25 | 0.19 | 0.64 | 0.28 | 0.44 | 0.52 | 0.07 | 0.27 | 0.62 | 0.16 |
| Avail Cap(c_a), veh/h | 689 | 2225 | 992 | 689 | 1171 | 992 | 678 | 1153 | 977 | 673 | 1143 | 969 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 22.9 | 15.2 | 15.0 | 26.7 | 20.0 | 18.4 | 20.3 | 18.9 | 17.0 | 22.6 | 21.8 | 20.2 |
| Incr Delay (d2), s/veh | 0.3 | 0.2 | 0.4 | 1.1 | 2.9 | 0.7 | 0.4 | 1.1 | 0.1 | 0.3 | 3.0 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.5 | 1.2 | 0.9 | 0.1 | 2.8 | 0.9 | 1.4 | 2.2 | 0.2 | 0.6 | 2.2 | 0.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 23.2 | 15.5 | 15.4 | 27.8 | 22.9 | 19.2 | 20.7 | 20.0 | 17.1 | 22.9 | 24.8 | 20.6 |
| LnGrp LOS | C | B | B | C | C | B | C | B | B | C | C | C |
| Approach Vol, veh/h | | 474 | | | 352 | | | 377 | | | 267 | |
| Approach Delay, s/veh | | 16.2 | | | 22.0 | | | 20.1 | | | 23.8 | |
| Approach LOS | | B | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.6 | 14.6 | 9.6 | 17.4 | 10.0 | 18.2 | 5.0 | 22.0 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 5.8 | 6.9 | 3.3 | 8.7 | 3.5 | 7.6 | 2.2 | 5.7 |
| Green Ext Time (p_c), s | 0.1 | 1.6 | 0.0 | 2.7 | 0.0 | 1.3 | 0.0 | 3.4 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 20.0 |
| HCM 7th LOS | B |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Existing Year WP_AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 80 | 130 | 182 | 90 | 139 | 142 | 103 | 693 | 51 | 68 | 611 | 54 |
| Future Volume (veh/h) | 80 | 130 | 182 | 90 | 139 | 142 | 103 | 693 | 51 | 68 | 611 | 54 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 82 | 134 | 188 | 93 | 143 | 146 | 106 | 714 | 53 | 70 | 630 | 56 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 156 | 429 | 363 | 165 | 181 | 185 | 172 | 1496 | 464 | 146 | 1415 | 439 |
| Arrive On Green | 0.09 | 0.23 | 0.23 | 0.09 | 0.21 | 0.21 | 0.10 | 0.29 | 0.29 | 0.08 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1767 | 1856 | 1572 | 1781 | 848 | 866 | 1781 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 82 | 134 | 188 | 93 | 0 | 289 | 106 | 714 | 53 | 70 | 630 | 56 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1856 | 1572 | 1781 | 0 | 1714 | 1781 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 3.3 | 4.4 | 7.7 | 3.7 | 0.0 | 11.7 | 4.2 | 8.4 | 1.8 | 2.8 | 7.5 | 2.0 |
| Cycle Q Clear(g_c), s | 3.3 | 4.4 | 7.7 | 3.7 | 0.0 | 11.7 | 4.2 | 8.4 | 1.8 | 2.8 | 7.5 | 2.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.51 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 156 | 429 | 363 | 165 | 0 | 366 | 172 | 1496 | 464 | 146 | 1415 | 439 |
| V/C Ratio(X) | 0.52 | 0.31 | 0.52 | 0.56 | 0.00 | 0.79 | 0.62 | 0.48 | 0.11 | 0.48 | 0.45 | 0.13 |
| Avail Cap(c_a), veh/h | 332 | 593 | 503 | 373 | 0 | 548 | 356 | 2731 | 848 | 354 | 2709 | 841 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 32.0 | 23.4 | 24.7 | 31.9 | 0.0 | 27.3 | 31.9 | 21.4 | 19.0 | 32.2 | 21.8 | 19.8 |
| Incr Delay (d2), s/veh | 1.0 | 0.4 | 1.1 | 3.0 | 0.0 | 8.7 | 1.3 | 0.2 | 0.1 | 0.9 | 0.7 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.4 | 1.8 | 0.1 | 1.6 | 0.0 | 5.3 | 1.8 | 3.2 | 0.6 | 1.2 | 2.9 | 0.7 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 33.0 | 23.8 | 25.8 | 34.9 | 0.0 | 36.0 | 33.3 | 21.6 | 19.1 | 33.1 | 22.5 | 20.2 |
| LnGrp LOS | C | C | C | C | | D | C | C | B | C | C | C |
| Approach Vol, veh/h | | 404 | | | 382 | | | 873 | | | 756 | |
| Approach Delay, s/veh | | 26.6 | | | 35.8 | | | 22.9 | | | 23.3 | |
| Approach LOS | | C | | | D | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.4 | 26.2 | 12.7 | 22.2 | 11.4 | 27.2 | 11.4 | 23.5 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 6.2 | 9.5 | 5.3 | 13.7 | 4.8 | 10.4 | 5.7 | 9.7 |
| Green Ext Time (p_c), s | 0.1 | 11.0 | 0.0 | 2.0 | 0.0 | 5.7 | 0.1 | 1.1 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 25.7 |
| HCM 7th LOS | C |

# HCM 7th Signalized Intersection Summary
## 2: Willow Avenue & Perrin Avenue





| Movement | EBL | EBR | NBL | NBT | SBU | SBT | SBR |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Volume (veh/h) | 172 | 167 | 88 | 698 | 0 | 797 | 118 |
| Future Volume (veh/h) | 172 | 167 | 88 | 698 | 0 | 797 | 118 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | | 1856 | 1856 |
| Adj Flow Rate, veh/h | 177 | 172 | 91 | 720 | | 822 | 122 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | | 3 | 3 |
| Cap, veh/h | 328 | 292 | 382 | 3125 | | 1949 | 605 |
| Arrive On Green | 0.18 | 0.18 | 0.11 | 0.61 | | 0.38 | 0.38 |
| Sat Flow, veh/h | 1781 | 1585 | 3456 | 5274 | | 5233 | 1572 |
| Grp Volume(v), veh/h | 177 | 172 | 91 | 720 | | 822 | 122 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1585 | 1728 | 1702 | | 1689 | 1572 |
| Q Serve(g_s), s | 4.9 | 5.4 | 1.3 | 3.4 | | 6.4 | 2.8 |
| Cycle Q Clear(g_c), s | 4.9 | 5.4 | 1.3 | 3.4 | | 6.4 | 2.8 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | | 1.00 |
| Lane Grp Cap(c), veh/h | 328 | 292 | 382 | 3125 | | 1949 | 605 |
| V/C Ratio(X) | 0.54 | 0.59 | 0.24 | 0.23 | | 0.42 | 0.20 |
| Avail Cap(c_a), veh/h | 816 | 726 | 878 | 3125 | | 2753 | 855 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 19.9 | 20.1 | 21.9 | 4.7 | | 12.2 | 11.1 |
| Incr Delay (d2), s/veh | 3.8 | 5.1 | 0.1 | 0.1 | | 0.5 | 0.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.1 | 2.1 | 0.5 | 0.9 | | 2.2 | 0.9 |
| Unsig. Movement Delay, s/veh | | | | | | | |
| LnGrp Delay(d), s/veh | 23.7 | 25.3 | 22.0 | 4.9 | | 12.7 | 11.6 |
| LnGrp LOS | C | C | C | A | | B | B |
| Approach Vol, veh/h | 349 | | | 811 | | 944 | |
| Approach Delay, s/veh | 24.5 | | | 6.8 | | 12.5 | |
| Approach LOS | C | | | A | | B | |

| Timer - Assigned Phs | 1 | 2 | | | 6 | 8 |
|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.3 | 26.4 | | | 38.7 | 15.2 |
| Change Period (Y+Rc), s | 6.3 | 5.7 | | | 5.7 | 5.3 |
| Max Green Setting (Gmax), s | 13.7 | 29.3 | | | 29.3 | 24.7 |
| Max Q Clear Time (g_c+I1), s | 13.3 | 8.4 | | | 5.4 | 7.4 |
| Green Ext Time (p_c), s | 0.1 | 12.3 | | | 10.8 | 2.6 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 12.3 |
| HCM 7th LOS | B |

**Notes**

User approved ignoring U-Turning movement.

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.4 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 0 | 246 | 2 | 2 | 365 | 1 | 48 | 0 | 0 | 1 | 0 | 0 |
| Future Vol, veh/h | 0 | 246 | 2 | 2 | 365 | 1 | 48 | 0 | 0 | 1 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 2 | 2 | 2 | 0 | 2 | 0 |
| Mvmt Flow | 0 | 304 | 2 | 2 | 451 | 1 | 59 | 0 | 0 | 1 | 0 | 0 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 452 | 0 | 0 | 306 | 0 | 0 | 760 | 762 | 305 | 760 | 762 | 451 |
| Stage 1 | - | - | - | - | - | - | 305 | 305 | - | 456 | 456 | - |
| Stage 2 | - | - | - | - | - | - | 456 | 457 | - | 304 | 306 | - |
| Critical Hdwy | 4.13 | - | - | 4.11 | - | - | 7.12 | 6.52 | 6.22 | 7.1 | 6.52 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.1 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.1 | 5.52 | - |
| Follow-up Hdwy | 2.227 | - | - | 2.209 | - | - | 3.518 | 4.018 | 3.318 | 3.5 | 4.018 | 3.3 |
| Pot Cap-1 Maneuver | 1103 | - | - | 1260 | - | - | 322 | 335 | 735 | 325 | 335 | 612 |
| Stage 1 | - | - | - | - | - | - | 705 | 662 | - | 588 | 568 | - |
| Stage 2 | - | - | - | - | - | - | 584 | 568 | - | 710 | 661 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1103 | - | - | 1260 | - | - | 321 | 334 | 735 | 324 | 334 | 612 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 321 | 334 | - | 324 | 334 | - |
| Stage 1 | - | - | - | - | - | - | 705 | 662 | - | 586 | 567 | - |
| Stage 2 | - | - | - | - | - | - | 583 | 566 | - | 710 | 661 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0.04 | 18.71 | 16.15 |
| HCM LOS | | | C | C |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 321 | 1103 | - | - | 1260 | - | - | 324 |
| HCM Lane V/C Ratio | 0.184 | - | - | - | 0.002 | - | - | 0.004 |
| HCM Control Delay (s/veh) | 18.7 | 0 | - | - | 7.9 | - | - | 16.1 |
| HCM Lane LOS | C | A | - | - | A | - | - | C |
| HCM 95th %tile Q(veh) | 0.7 | 0 | - | - | 0 | - | - | 0 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 89.2 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 8 | 162 | 125 | 25 | 222 | 253 | 85 | 240 | 19 | 175 | 207 | 4 |
| Future Vol, veh/h | 8 | 162 | 125 | 25 | 222 | 253 | 85 | 240 | 19 | 175 | 207 | 4 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.92 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 8 | 167 | 129 | 26 | 229 | 261 | 88 | 261 | 20 | 180 | 213 | 4 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 39.3 | 149.9 | 60.8 | 75 |
| HCM LOS | E | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 25% | 3% | 5% | 45% |
| Vol Thru, % | 70% | 55% | 44% | 54% |
| Vol Right, % | 6% | 42% | 51% | 1% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 344 | 295 | 500 | 386 |
| LT Vol | 85 | 8 | 25 | 175 |
| Through Vol | 240 | 162 | 222 | 207 |
| RT Vol | 19 | 125 | 253 | 4 |
| Lane Flow Rate | 368 | 304 | 515 | 398 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.919 | 0.77 | 1.23 | 0.985 |
| Departure Headway (Hd) | 9.809 | 9.91 | 8.592 | 9.708 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 372 | 368 | 423 | 378 |
| Service Time | 7.809 | 7.91 | 6.666 | 7.708 |
| HCM Lane V/C Ratio | 0.989 | 0.826 | 1.217 | 1.053 |
| HCM Control Delay, s/veh | 60.8 | 39.3 | 149.9 | 75 |
| HCM Lane LOS | F | E | F | F |
| HCM 95th-tile Q | 9.5 | 6.3 | 21 | 11.4 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.4 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 8 | 0 | 3 | 4 | 0 | 2 | 3 | 329 | 11 | 2 | 395 | 6 |
| Future Vol, veh/h | 8 | 0 | 3 | 4 | 0 | 2 | 3 | 329 | 11 | 2 | 395 | 6 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 9 | 0 | 3 | 4 | 0 | 2 | 3 | 362 | 12 | 2 | 434 | 7 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 810 | 822 | 437 | 813 | 819 | 368 | 441 | 0 | 0 | 374 | 0 | 0 |
| Stage 1 | 442 | 442 | - | 374 | 374 | - | - | - | - | - | - | - |
| Stage 2 | 368 | 380 | - | 438 | 445 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 299 | 309 | 619 | 297 | 310 | 678 | 1114 | - | - | 1179 | - | - |
| Stage 1 | 595 | 576 | - | 647 | 618 | - | - | - | - | - | - | - |
| Stage 2 | 652 | 614 | - | 597 | 575 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 296 | 307 | 619 | 294 | 308 | 678 | 1114 | - | - | 1179 | - | - |
| Mov Cap-2 Maneuver | 296 | 307 | - | 294 | 308 | - | - | - | - | - | - | - |
| Stage 1 | 593 | 575 | - | 644 | 615 | - | - | - | - | - | - | - |
| Stage 2 | 647 | 611 | - | 592 | 573 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 15.82 | 15.12 | 0.07 | 0.04 |
| HCM LOS | C | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 16 | - | - | 345 | 362 | 9 | - | - |
| HCM Lane V/C Ratio | 0.003 | - | - | 0.035 | 0.018 | 0.002 | - | - |
| HCM Control Delay (s/veh) | 8.2 | 0 | - | 15.8 | 15.1 | 8.1 | 0 | - |
| HCM Lane LOS | A | A | - | C | C | A | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0.1 | 0.1 | 0 | - | - |

HCM 7th Signalized Intersection Summary De Young Properties Peach and Benyimer Project
6: Minnewawa Avenue & Shepherd Avenue Existing Year WP_AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 34 | 318 | 128 | 14 | 265 | 148 | 120 | 162 | 18 | 121 | 221 | 34 |
| Future Volume (veh/h) | 34 | 318 | 128 | 14 | 265 | 148 | 120 | 162 | 18 | 121 | 221 | 34 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 37 | 346 | 139 | 15 | 288 | 161 | 130 | 176 | 20 | 132 | 240 | 37 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 153 | 984 | 439 | 73 | 434 | 368 | 290 | 354 | 300 | 289 | 353 | 299 |
| Arrive On Green | 0.08 | 0.27 | 0.27 | 0.04 | 0.23 | 0.23 | 0.16 | 0.19 | 0.19 | 0.16 | 0.19 | 0.19 |
| Sat Flow, veh/h | 1810 | 3610 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 37 | 346 | 139 | 15 | 288 | 161 | 130 | 176 | 20 | 132 | 240 | 37 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1805 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 1.1 | 4.6 | 4.1 | 0.5 | 8.2 | 5.1 | 3.9 | 5.0 | 0.6 | 4.0 | 7.2 | 1.2 |
| Cycle Q Clear(g_c), s | 1.1 | 4.6 | 4.1 | 0.5 | 8.2 | 5.1 | 3.9 | 5.0 | 0.6 | 4.0 | 7.2 | 1.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 153 | 984 | 439 | 73 | 434 | 368 | 290 | 354 | 300 | 289 | 353 | 299 |
| V/C Ratio(X) | 0.24 | 0.35 | 0.32 | 0.20 | 0.66 | 0.44 | 0.45 | 0.50 | 0.07 | 0.46 | 0.68 | 0.12 |
| Avail Cap(c_a), veh/h | 635 | 2051 | 915 | 635 | 1080 | 915 | 625 | 1063 | 901 | 620 | 1054 | 894 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 25.6 | 17.5 | 17.3 | 27.8 | 21.0 | 19.8 | 22.6 | 21.7 | 19.9 | 22.6 | 22.5 | 20.1 |
| Incr Delay (d2), s/veh | 0.3 | 0.3 | 0.6 | 0.5 | 2.9 | 1.3 | 0.4 | 1.2 | 0.1 | 0.4 | 3.3 | 0.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.4 | 1.6 | 1.3 | 0.2 | 3.4 | 1.8 | 1.5 | 2.0 | 0.2 | 1.6 | 3.2 | 0.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 25.9 | 17.8 | 18.0 | 28.3 | 23.8 | 21.1 | 23.0 | 22.9 | 20.0 | 23.1 | 25.8 | 20.4 |
| LnGrp LOS | C | B | B | C | C | C | C | C | C | C | C | C |
| Approach Vol, veh/h | | 522 | | | 464 | | | 326 | | | 409 | |
| Approach Delay, s/veh | | 18.4 | | | 23.0 | | | 22.8 | | | 24.4 | |
| Approach LOS | | B | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.7 | 17.4 | 9.1 | 19.7 | 13.8 | 17.3 | 6.4 | 22.3 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 5.9 | 9.2 | 3.1 | 10.2 | 6.0 | 7.0 | 2.5 | 6.6 |
| Green Ext Time (p_c), s | 0.1 | 2.2 | 0.0 | 3.4 | 0.1 | 1.0 | 0.0 | 3.9 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 21.9 |
| HCM 7th LOS | C |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 48 | 0 | 0 | 5 | 0 |
| Future Vol, veh/h | 0 | 48 | 0 | 0 | 5 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 52 | 0 | 0 | 5 | 0 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 11 | 0 | 0 | 0 | 0 | 0 |
| Stage 1 | 0 | - | - | - | - | - |
| Stage 2 | 11 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 1009 | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | 1012 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 1009 | - | - | - | - | - |
| Mov Cap-2 Maneuver | 1009 | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | 1012 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | | 0 | |
| HCM LOS | - | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | - | - |
| HCM Lane V/C Ratio | - | - | - | - | - |
| HCM Control Delay (s/veh) | - | - | - | - | - |
| HCM Lane LOS | - | - | - | - | - |
| HCM 95th %tile Q(veh) | - | - | - | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.4 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 243 | 5 | 0 | 311 | 0 | 21 |
| Future Vol, veh/h | 243 | 5 | 0 | 311 | 0 | 21 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 264 | 5 | 0 | 338 | 0 | 23 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 267 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 772 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 772 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 9.81 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 772 | - | - | - |
| HCM Lane V/C Ratio | 0.03 | - | - | - |
| HCM Control Delay (s/veh) | 9.8 | - | - | - |
| HCM Lane LOS | A | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.7 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 254 | 10 | 22 | 311 | 0 | 28 |
| Future Vol, veh/h | 254 | 10 | 22 | 311 | 0 | 28 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 276 | 11 | 24 | 338 | 0 | 30 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 287 | 0 | - | 282 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | 4.12 | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | 2.218 | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1275 | - | 0 | 757 |
| Stage 1 | - | - | - | - | 0 | - |
| Stage 2 | - | - | - | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 1275 | - | - | 757 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0.52 | 9.95 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 757 | - | - | 1275 | - |
| HCM Lane V/C Ratio | 0.04 | - | - | 0.019 | - |
| HCM Control Delay (s/veh) | 10 | - | - | 7.9 | - |
| HCM Lane LOS | A | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.1 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.6 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 274 | 7 | 0 | 333 | 0 | 41 |
| Future Vol, veh/h | 274 | 7 | 0 | 333 | 0 | 41 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 298 | 8 | 0 | 362 | 0 | 45 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 302 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 738 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 738 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.19 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 738 | - | - | - |
| HCM Lane V/C Ratio | 0.06 | - | - | - |
| HCM Control Delay (s/veh) | 10.2 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.2 | - | - | - |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Existing Year WP_PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 21 | 109 | 121 | 94 | 141 | 124 | 119 | 731 | 120 | 103 | 560 | 40 |
| Future Volume (veh/h) | 21 | 109 | 121 | 94 | 141 | 124 | 119 | 731 | 120 | 103 | 560 | 40 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 24 | 127 | 141 | 109 | 164 | 144 | 138 | 850 | 140 | 120 | 651 | 47 |
| Peak Hour Factor | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 74 | 348 | 295 | 167 | 202 | 177 | 174 | 1778 | 552 | 171 | 1780 | 552 |
| Arrive On Green | 0.04 | 0.19 | 0.19 | 0.09 | 0.22 | 0.22 | 0.10 | 0.35 | 0.35 | 0.09 | 0.34 | 0.34 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1810 | 933 | 819 | 1795 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 24 | 127 | 141 | 109 | 0 | 308 | 138 | 850 | 140 | 120 | 651 | 47 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1810 | 0 | 1753 | 1795 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 1.0 | 4.7 | 6.2 | 4.6 | 0.0 | 13.1 | 5.9 | 10.2 | 4.9 | 5.0 | 7.4 | 1.6 |
| Cycle Q Clear(g_c), s | 1.0 | 4.7 | 6.2 | 4.6 | 0.0 | 13.1 | 5.9 | 10.2 | 4.9 | 5.0 | 7.4 | 1.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.47 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 74 | 348 | 295 | 167 | 0 | 380 | 174 | 1778 | 552 | 171 | 1780 | 552 |
| V/C Ratio(X) | 0.32 | 0.37 | 0.48 | 0.65 | 0.00 | 0.81 | 0.79 | 0.48 | 0.25 | 0.70 | 0.37 | 0.09 |
| Avail Cap(c_a), veh/h | 313 | 560 | 475 | 355 | 0 | 525 | 336 | 2577 | 800 | 339 | 2597 | 806 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 36.5 | 27.9 | 28.5 | 34.4 | 0.0 | 29.2 | 34.7 | 20.1 | 18.4 | 34.5 | 19.4 | 17.4 |
| Incr Delay (d2), s/veh | 0.9 | 0.8 | 1.5 | 1.6 | 0.0 | 10.5 | 3.1 | 0.6 | 0.8 | 2.0 | 0.4 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.4 | 2.0 | 2.3 | 2.0 | 0.0 | 6.2 | 2.7 | 4.0 | 1.8 | 2.3 | 2.9 | 0.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 37.5 | 28.7 | 30.0 | 36.0 | 0.0 | 39.7 | 37.8 | 20.8 | 19.2 | 36.4 | 19.8 | 17.7 |
| LnGrp LOS | D | C | C | D | | D | D | C | B | D | B | B |
| Approach Vol, veh/h | | 292 | | | 417 | | | 1128 | | | 818 | |
| Approach Delay, s/veh | | 30.0 | | | 38.7 | | | 22.7 | | | 22.1 | |
| Approach LOS | | C | | | D | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.9 | 32.6 | 9.5 | 23.5 | 12.7 | 32.8 | 11.9 | 21.1 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 7.9 | 9.4 | 3.0 | 15.1 | 7.0 | 12.2 | 6.6 | 8.2 |
| Green Ext Time (p_c), s | 0.1 | 11.3 | 0.0 | 1.9 | 0.1 | 15.0 | 0.1 | 1.1 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 25.8 |
| HCM 7th LOS | C |



| Movement | EBL | EBR | NBL | NBT | SBU | SBT | SBR |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Volume (veh/h) | 136 | 193 | 199 | 899 | 0 | 697 | 102 |
| Future Volume (veh/h) | 136 | 193 | 199 | 899 | 0 | 697 | 102 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | | 1856 | 1856 |
| Adj Flow Rate, veh/h | 143 | 203 | 209 | 946 | | 734 | 107 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | | 0.95 | 0.95 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | | 3 | 3 |
| Cap, veh/h | 352 | 313 | 476 | 3054 | | 1759 | 546 |
| Arrive On Green | 0.20 | 0.20 | 0.14 | 0.60 | | 0.35 | 0.35 |
| Sat Flow, veh/h | 1781 | 1585 | 3456 | 5274 | | 5233 | 1572 |
| Grp Volume(v), veh/h | 143 | 203 | 209 | 946 | | 734 | 107 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1585 | 1728 | 1702 | | 1689 | 1572 |
| Q Serve(g_s), s | 3.9 | 6.6 | 3.1 | 5.1 | | 6.2 | 2.7 |
| Cycle Q Clear(g_c), s | 3.9 | 6.6 | 3.1 | 5.1 | | 6.2 | 2.7 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | | 1.00 |
| Lane Grp Cap(c), veh/h | 352 | 313 | 476 | 3054 | | 1759 | 546 |
| V/C Ratio(X) | 0.41 | 0.65 | 0.44 | 0.31 | | 0.42 | 0.20 |
| Avail Cap(c_a), veh/h | 776 | 691 | 849 | 3054 | | 2661 | 826 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 19.5 | 20.6 | 22.1 | 5.5 | | 13.9 | 12.7 |
| Incr Delay (d2), s/veh | 2.1 | 6.1 | 0.2 | 0.2 | | 0.5 | 0.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.6 | 2.6 | 1.2 | 1.4 | | 2.2 | 0.9 |
| Unsig. Movement Delay, s/veh | | | | | | | |
| LnGrp Delay(d), s/veh | 21.6 | 26.7 | 22.3 | 5.7 | | 14.4 | 13.3 |
| LnGrp LOS | C | C | C | A | | B | B |
| Approach Vol, veh/h | 346 | | | 1155 | | 841 | |
| Approach Delay, s/veh | 24.6 | | | 8.7 | | 14.3 | |
| Approach LOS | C | | | A | | B | |

| Timer - Assigned Phs | 1 | 2 | | | 6 | 8 |
|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 14.0 | 25.1 | | | 39.1 | 16.7 |
| Change Period (Y+Rc), s | 6.3 | 5.7 | | | 5.7 | 5.7 |
| Max Green Setting (Gmax), s | 13.7 | 29.3 | | | 29.3 | 24.3 |
| Max Q Clear Time (g_c+I1), s | 5.1 | 8.2 | | | 7.1 | 8.6 |
| Green Ext Time (p_c), s | 0.2 | 11.2 | | | 13.4 | 2.5 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 13.1 |
| HCM 7th LOS | B |

**Notes**

User approved ignoring U-Turning movement.

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.9 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↰ | | | ↑ | | | ↔ | | | ↔ | |
| Traffic Vol, veh/h | 1 | 312 | 8 | 8 | 307 | 0 | 33 | 0 | 0 | 0 | 0 | 1 |
| Future Vol, veh/h | 1 | 312 | 8 | 8 | 307 | 0 | 33 | 0 | 0 | 0 | 0 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 332 | 9 | 9 | 327 | 0 | 35 | 0 | 0 | 0 | 0 | 1 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 327 | 0 | 0 | 340 | 0 | 0 | 682 | 682 | 336 | 678 | 686 | 327 |
| Stage 1 | - | - | - | - | - | - | 338 | 338 | - | 344 | 344 | - |
| Stage 2 | - | - | - | - | - | - | 344 | 344 | - | 334 | 343 | - |
| Critical Hdwy | 4.12 | - | - | 4.1 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.2 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 1233 | - | - | 1230 | - | - | 367 | 375 | 710 | 369 | 373 | 719 |
| Stage 1 | - | - | - | - | - | - | 680 | 644 | - | 676 | 641 | - |
| Stage 2 | - | - | - | - | - | - | 676 | 641 | - | 684 | 641 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1233 | - | - | 1230 | - | - | 363 | 371 | 710 | 366 | 369 | 719 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 363 | 371 | - | 366 | 369 | - |
| Stage 1 | - | - | - | - | - | - | 680 | 643 | - | 670 | 635 | - |
| Stage 2 | - | - | - | - | - | - | 669 | 635 | - | 683 | 641 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0.02 | 0.2 | 15.99 | 10.01 |
| HCM LOS | | | C | B |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 363 | 6 | - | - | 1230 | - | - | 719 |
| HCM Lane V/C Ratio | 0.097 | 0.001 | - | - | 0.007 | - | - | 0.001 |
| HCM Control Delay (s/veh) | 16 | 7.9 | 0 | - | 7.9 | - | - | 10 |
| HCM Lane LOS | C | A | A | - | A | - | - | B |
| HCM 95th %tile Q(veh) | 0.3 | 0 | - | - | 0 | - | - | 0 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 91.1 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 5 | 197 | 82 | 15 | 233 | 179 | 127 | 259 | 30 | 187 | 168 | 7 |
| Future Vol, veh/h | 5 | 197 | 82 | 15 | 233 | 179 | 127 | 259 | 30 | 187 | 168 | 7 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 5 | 212 | 88 | 16 | 251 | 192 | 137 | 278 | 32 | 201 | 181 | 8 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 43.6 | 110.7 | 114.8 | 78.1 |
| HCM LOS | E | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 31% | 2% | 4% | 52% |
| Vol Thru, % | 62% | 69% | 55% | 46% |
| Vol Right, % | 7% | 29% | 42% | 2% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 416 | 284 | 427 | 362 |
| LT Vol | 127 | 5 | 15 | 187 |
| Through Vol | 259 | 197 | 233 | 168 |
| RT Vol | 30 | 82 | 179 | 7 |
| Lane Flow Rate | 447 | 305 | 459 | 389 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 1.122 | 0.797 | 1.114 | 0.992 |
| Departure Headway (Hd) | 9.582 | 10.273 | 9.267 | 10.005 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 380 | 354 | 395 | 366 |
| Service Time | 7.582 | 8.273 | 7.267 | 8.005 |
| HCM Lane V/C Ratio | 1.176 | 0.862 | 1.162 | 1.063 |
| HCM Control Delay, s/veh | 114.8 | 43.6 | 110.7 | 78.1 |
| HCM Lane LOS | F | E | F | F |
| HCM 95th-tile Q | 15.8 | 6.7 | 15.8 | 11.4 |

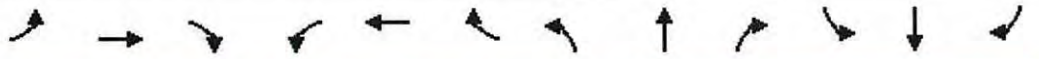
| Intersection | |
|---|---|
| Int Delay, s/veh | 0.3 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 0 | 0 | 2 | 9 | 0 | 2 | 0 | 404 | 2 | 0 | 289 | 1 |
| Future Vol, veh/h | 0 | 0 | 2 | 9 | 0 | 2 | 0 | 404 | 2 | 0 | 289 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 92 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 0 | 0 | 2 | 9 | 0 | 2 | 0 | 439 | 2 | 0 | 304 | 1 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 744 | 746 | 305 | 744 | 745 | 440 | 305 | 0 | 0 | 441 | 0 | 0 |
| Stage 1 | 305 | 305 | - | 440 | 440 | - | - | - | - | - | - | - |
| Stage 2 | 439 | 441 | - | 304 | 305 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 331 | 342 | 735 | 330 | 342 | 617 | 1256 | - | - | 1113 | - | - |
| Stage 1 | 705 | 662 | - | 596 | 577 | - | - | - | - | - | - | - |
| Stage 2 | 597 | 577 | - | 705 | 662 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 330 | 342 | 735 | 329 | 342 | 617 | 1256 | - | - | 1113 | - | - |
| Mov Cap-2 Maneuver | 330 | 342 | - | 329 | 342 | - | - | - | - | - | - | - |
| Stage 1 | 705 | 662 | - | 596 | 577 | - | - | - | - | - | - | - |
| Stage 2 | 595 | 577 | - | 703 | 662 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 9.91 | 15.33 | 0 | 0 |
| HCM LOS | A | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 1256 | - | - | 735 | 360 | 1113 | - | - |
| HCM Lane V/C Ratio | - | - | - | 0.003 | 0.032 | - | - | - |
| HCM Control Delay (s/veh) | 0 | - | - | 9.9 | 15.3 | 0 | - | - |
| HCM Lane LOS | A | - | - | A | C | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | 0.1 | 0 | - | - |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 44 | 295 | 111 | 6 | 240 | 123 | 129 | 236 | 24 | 68 | 188 | 36 |
| Future Volume (veh/h) | 44 | 295 | 111 | 6 | 240 | 123 | 129 | 236 | 24 | 68 | 188 | 36 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 46 | 311 | 117 | 6 | 253 | 129 | 136 | 248 | 25 | 72 | 198 | 38 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 181 | 1050 | 469 | 32 | 396 | 336 | 305 | 386 | 327 | 233 | 310 | 262 |
| Arrive On Green | 0.10 | 0.29 | 0.29 | 0.02 | 0.21 | 0.21 | 0.17 | 0.21 | 0.21 | 0.13 | 0.17 | 0.17 |
| Sat Flow, veh/h | 1810 | 3610 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 46 | 311 | 117 | 6 | 253 | 129 | 136 | 248 | 25 | 72 | 198 | 38 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1805 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 1.3 | 3.8 | 3.1 | 0.2 | 6.9 | 3.9 | 3.9 | 6.9 | 0.7 | 2.1 | 5.6 | 1.2 |
| Cycle Q Clear(g_c), s | 1.3 | 3.8 | 3.1 | 0.2 | 6.9 | 3.9 | 3.9 | 6.9 | 0.7 | 2.1 | 5.6 | 1.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 181 | 1050 | 469 | 32 | 396 | 336 | 305 | 386 | 327 | 233 | 310 | 262 |
| V/C Ratio(X) | 0.25 | 0.30 | 0.25 | 0.19 | 0.64 | 0.38 | 0.45 | 0.64 | 0.08 | 0.31 | 0.64 | 0.14 |
| Avail Cap(c_a), veh/h | 671 | 2168 | 967 | 671 | 1141 | 967 | 661 | 1123 | 952 | 656 | 1114 | 944 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 23.5 | 15.6 | 15.3 | 27.4 | 20.5 | 19.3 | 21.0 | 20.5 | 18.1 | 22.2 | 22.0 | 20.1 |
| Incr Delay (d2), s/veh | 0.3 | 0.2 | 0.4 | 1.1 | 2.8 | 1.2 | 0.4 | 1.9 | 0.1 | 0.3 | 3.1 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.5 | 1.3 | 1.0 | 0.1 | 2.8 | 1.3 | 1.4 | 2.8 | 0.2 | 0.8 | 2.5 | 0.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 23.8 | 15.8 | 15.8 | 28.5 | 23.3 | 20.5 | 21.4 | 22.5 | 18.2 | 22.5 | 25.1 | 20.5 |
| LnGrp LOS | C | B | B | C | C | C | C | C | B | C | C | C |
| Approach Vol, veh/h | | 474 | | | 388 | | | 409 | | | 308 | |
| Approach Delay, s/veh | | 16.6 | | | 22.4 | | | 21.9 | | | 23.9 | |
| Approach LOS | | B | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.7 | 15.4 | 9.7 | 17.8 | 11.5 | 17.7 | 5.0 | 22.5 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 5.9 | 7.6 | 3.3 | 8.9 | 4.1 | 8.9 | 2.2 | 5.8 |
| Green Ext Time (p_c), s | 0.1 | 1.8 | 0.0 | 2.9 | 0.1 | 1.4 | 0.0 | 3.4 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 20.8 |
| HCM 7th LOS | C |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 33 | 0 | 0 | 16 | 0 |
| Future Vol, veh/h | 0 | 33 | 0 | 0 | 16 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 36 | 0 | 0 | 17 | 0 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 35 | 0 | 0 | 0 | 0 | 0 |
| Stage 1 | 0 | - | - | - | - | - |
| Stage 2 | 35 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 978 | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | 988 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 978 | - | - | - | - | - |
| Mov Cap-2 Maneuver | 978 | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | 988 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | | 0 | |
| HCM LOS | - | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | - | - |
| HCM Lane V/C Ratio | - | - | - | - | - |
| HCM Control Delay (s/veh) | - | - | - | - | - |
| HCM Lane LOS | - | - | - | - | - |
| HCM 95th %tile Q(veh) | - | - | - | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.2 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 292 | 16 | 0 | 310 | 0 | 14 |
| Future Vol, veh/h | 292 | 16 | 0 | 310 | 0 | 14 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 317 | 17 | 0 | 337 | 0 | 15 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 326 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 715 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 715 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.14 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 715 | - | - | - |
| HCM Lane V/C Ratio | 0.021 | - | - | - |
| HCM Control Delay (s/veh) | 10.1 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.1 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 275 | 31 | 71 | 310 | 0 | 19 |
| Future Vol, veh/h | 275 | 31 | 71 | 310 | 0 | 19 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 299 | 34 | 77 | 337 | 0 | 21 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 333 | 0 | - | 316 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | 4.12 | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | 2.218 | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1227 | - | 0 | 725 |
| Stage 1 | - | - | - | - | 0 | - |
| Stage 2 | - | - | - | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 1227 | - | - | 725 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 1.52 | 10.11 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 725 | - | - | 1227 | - |
| HCM Lane V/C Ratio | 0.028 | - | - | 0.063 | - |
| HCM Control Delay (s/veh) | 10.1 | - | - | 8.1 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.2 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.4 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 270 | 24 | 0 | 381 | 0 | 28 |
| Future Vol, veh/h | 270 | 24 | 0 | 381 | 0 | 28 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 293 | 26 | 0 | 414 | 0 | 30 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 307 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 733 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 733 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.12 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 733 | - | - | - |
| HCM Lane V/C Ratio | 0.041 | - | - | - |
| HCM Control Delay (s/veh) | 10.1 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Near Term WP_AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 81 | 155 | 221 | 213 | 179 | 187 | 149 | 729 | 117 | 90 | 682 | 55 |
| Future Volume (veh/h) | 81 | 155 | 221 | 213 | 179 | 187 | 149 | 729 | 117 | 90 | 682 | 55 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 84 | 160 | 228 | 220 | 185 | 193 | 154 | 752 | 121 | 93 | 703 | 57 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 144 | 383 | 325 | 258 | 210 | 219 | 190 | 1544 | 479 | 149 | 1419 | 441 |
| Arrive On Green | 0.08 | 0.21 | 0.21 | 0.14 | 0.25 | 0.25 | 0.11 | 0.30 | 0.30 | 0.08 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1767 | 1856 | 1572 | 1781 | 838 | 875 | 1781 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 84 | 160 | 228 | 220 | 0 | 378 | 154 | 752 | 121 | 93 | 703 | 57 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1856 | 1572 | 1781 | 0 | 1713 | 1781 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 3.9 | 6.3 | 11.3 | 10.2 | 0.0 | 17.9 | 7.1 | 10.1 | 4.9 | 4.3 | 9.8 | 2.3 |
| Cycle Q Clear(g_c), s | 3.9 | 6.3 | 11.3 | 10.2 | 0.0 | 17.9 | 7.1 | 10.1 | 4.9 | 4.3 | 9.8 | 2.3 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.51 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 144 | 383 | 325 | 258 | 0 | 429 | 190 | 1544 | 479 | 149 | 1419 | 441 |
| V/C Ratio(X) | 0.58 | 0.42 | 0.70 | 0.85 | 0.00 | 0.88 | 0.81 | 0.49 | 0.25 | 0.63 | 0.50 | 0.13 |
| Avail Cap(c_a), veh/h | 289 | 518 | 439 | 326 | 0 | 478 | 311 | 2382 | 739 | 308 | 2363 | 734 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 37.3 | 29.0 | 31.0 | 35.2 | 0.0 | 30.4 | 36.8 | 24.0 | 22.2 | 37.3 | 25.3 | 22.6 |
| Incr Delay (d2), s/veh | 1.4 | 0.9 | 3.7 | 13.7 | 0.0 | 18.2 | 3.2 | 0.8 | 0.9 | 1.6 | 0.9 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.7 | 2.8 | 4.4 | 5.2 | 0.0 | 9.1 | 3.2 | 4.1 | 1.8 | 1.9 | 3.9 | 0.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 38.7 | 29.9 | 34.7 | 48.8 | 0.0 | 48.6 | 40.0 | 24.8 | 23.1 | 38.9 | 26.2 | 23.1 |
| LnGrp LOS | D | C | C | D | | D | D | C | C | D | C | C |
| Approach Vol, veh/h | | 472 | | | 598 | | | 1027 | | | 853 | |
| Approach Delay, s/veh | | 33.8 | | | 48.7 | | | 26.9 | | | 27.4 | |
| Approach LOS | | C | | | D | | | C | | | C | |

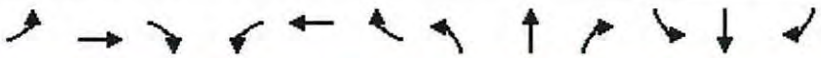
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 14.3 | 29.3 | 13.1 | 27.6 | 12.4 | 31.2 | 16.8 | 23.9 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 9.1 | 11.8 | 5.9 | 19.9 | 6.3 | 12.1 | 12.2 | 13.3 |
| Green Ext Time (p_c), s | 0.1 | 11.8 | 0.0 | 1.2 | 0.1 | 13.2 | 0.1 | 1.4 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 32.6 |
| HCM 7th LOS | C |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Benjamin Project

## 2: Willow Avenue & Perrin Avenue

Near Term WP_AM Peak Hour



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 208 | 70 | 191 | 104 | 95 | 31 | 121 | 772 | 79 | 23 | 928 | 201 |
| Future Volume (veh/h) | 208 | 70 | 191 | 104 | 95 | 31 | 121 | 772 | 79 | 23 | 928 | 201 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 214 | 72 | 197 | 107 | 98 | 32 | 125 | 796 | 81 | 24 | 957 | 207 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 277 | 310 | 262 | 163 | 190 | 161 | 321 | 2200 | 683 | 73 | 1858 | 577 |
| Arrive On Green | 0.16 | 0.17 | 0.17 | 0.09 | 0.10 | 0.10 | 0.09 | 0.43 | 0.43 | 0.04 | 0.37 | 0.37 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1810 | 1900 | 1610 | 3456 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 214 | 72 | 197 | 107 | 98 | 32 | 125 | 796 | 81 | 24 | 957 | 207 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1810 | 1900 | 1610 | 1728 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 9.3 | 2.7 | 9.6 | 4.6 | 4.0 | 1.5 | 2.8 | 8.5 | 2.5 | 1.1 | 11.9 | 7.8 |
| Cycle Q Clear(g_c), s | 9.3 | 2.7 | 9.6 | 4.6 | 4.0 | 1.5 | 2.8 | 8.5 | 2.5 | 1.1 | 11.9 | 7.8 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 277 | 310 | 262 | 163 | 190 | 161 | 321 | 2200 | 683 | 73 | 1858 | 577 |
| V/C Ratio(X) | 0.77 | 0.23 | 0.75 | 0.66 | 0.52 | 0.20 | 0.39 | 0.36 | 0.12 | 0.33 | 0.52 | 0.36 |
| Avail Cap(c_a), veh/h | 589 | 555 | 471 | 493 | 454 | 385 | 372 | 2464 | 765 | 175 | 2338 | 726 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 32.7 | 29.3 | 32.1 | 35.6 | 34.5 | 33.4 | 34.5 | 15.5 | 13.8 | 37.7 | 20.0 | 18.7 |
| Incr Delay (d2), s/veh | 11.7 | 1.0 | 11.2 | 11.7 | 5.9 | 1.7 | 0.3 | 0.3 | 0.3 | 1.0 | 0.8 | 1.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 4.7 | 1.2 | 4.3 | 2.5 | 2.1 | 0.6 | 1.1 | 3.2 | 0.9 | 0.5 | 4.6 | 2.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 44.5 | 30.3 | 43.3 | 47.3 | 40.4 | 35.1 | 34.8 | 15.8 | 14.1 | 38.6 | 20.7 | 20.0 |
| LnGrp LOS | D | C | D | D | D | D | C | B | B | D | C | B |
| Approach Vol, veh/h | | 483 | | | 237 | | | 1002 | | | 1188 | |
| Approach Delay, s/veh | | 41.9 | | | 42.8 | | | 18.1 | | | 21.0 | |
| Approach LOS | | D | | | D | | | B | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 8.6 | 40.5 | 17.9 | 13.8 | 13.8 | 35.3 | 12.6 | 19.1 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 5.3 | 5.7 | 6.3 | 5.7 | 5.3 | 5.7 |
| Max Green Setting (Gmax), s | 3.3 | 39.0 | 26.7 | 19.3 | 8.7 | 37.3 | 22.0 | 24.0 |
| Max Q Clear Time (g_c+I1), s | 13.1 | 10.5 | 11.3 | 6.0 | 4.8 | 13.9 | 6.6 | 11.6 |
| Green Ext Time (p_c), s | 0.0 | 14.1 | 1.4 | 0.9 | 0.1 | 15.7 | 0.6 | 1.8 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 25.2 |
| HCM 7th LOS | C |

| Intersection | |
|---|---|
| Int Delay, s/veh | 4.8 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 0 | 270 | 29 | 15 | 490 | 2 | 79 | 30 | 15 | 7 | 24 | 0 |
| Future Vol, veh/h | 0 | 270 | 29 | 15 | 490 | 2 | 79 | 30 | 15 | 7 | 24 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 293 | 32 | 16 | 533 | 2 | 86 | 33 | 16 | 8 | 26 | 0 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 535 | 0 | 0 | 325 | 0 | 0 | 888 | 877 | 309 | 876 | 891 | 534 |
| Stage 1 | - | - | - | - | - | - | 309 | 309 | - | 566 | 566 | - |
| Stage 2 | - | - | - | - | - | - | 578 | 567 | - | 310 | 325 | - |
| Critical Hdwy | 4.13 | - | - | 4.11 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.227 | - | - | 2.209 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 1028 | - | - | 1240 | - | - | 267 | 289 | 736 | 271 | 284 | 550 |
| Stage 1 | - | - | - | - | - | - | 705 | 663 | - | 512 | 510 | - |
| Stage 2 | - | - | - | - | - | - | 505 | 510 | - | 705 | 653 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1028 | - | - | 1240 | - | - | 238 | 284 | 736 | 231 | 278 | 550 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 238 | 284 | - | 231 | 278 | - |
| Stage 1 | - | - | - | - | - | - | 705 | 663 | - | 503 | 501 | - |
| Stage 2 | - | - | - | - | - | - | 470 | 500 | - | 655 | 653 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0.23 | 30.85 | 20.48 |
| HCM LOS | | | D | C |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 270 | 1028 | - | - | 53 | - | - | 266 |
| HCM Lane V/C Ratio | 0.498 | - | - | - | 0.013 | - | - | 0.127 |
| HCM Control Delay (s/veh) | 30.8 | 0 | - | - | 7.9 | 0 | - | 20.5 |
| HCM Lane LOS | D | A | - | - | A | A | - | C |
| HCM 95th %tile Q(veh) | 2.6 | 0 | - | - | 0 | - | - | 0.4 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 170.6 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 9 | 184 | 149 | 25 | 280 | 258 | 121 | 275 | 19 | 188 | 282 | 7 |
| Future Vol, veh/h | 9 | 184 | 149 | 25 | 280 | 258 | 121 | 275 | 19 | 188 | 282 | 7 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 9 | 190 | 154 | 26 | 289 | 266 | 125 | 284 | 20 | 194 | 291 | 7 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 69 | 253.4 | 124.6 | 185.9 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 29% | 3% | 4% | 39% |
| Vol Thru, % | 66% | 54% | 50% | 59% |
| Vol Right, % | 5% | 44% | 46% | 1% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 415 | 342 | 563 | 477 |
| LT Vol | 121 | 9 | 25 | 188 |
| Through Vol | 275 | 184 | 280 | 282 |
| RT Vol | 19 | 149 | 258 | 7 |
| Lane Flow Rate | 428 | 353 | 580 | 492 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 1.123 | 0.912 | 1.47 | 1.296 |
| Departure Headway (Hd) | 11.817 | 12.24 | 10.366 | 11.312 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 312 | 300 | 354 | 325 |
| Service Time | 9.817 | 10.24 | 8.366 | 9.312 |
| HCM Lane V/C Ratio | 1.372 | 1.177 | 1.638 | 1.514 |
| HCM Control Delay, s/veh | 124.6 | 69 | 253.4 | 185.9 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 13.9 | 8.5 | 27.4 | 19.6 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 29.9 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 34 | 69 | 67 | 8 | 75 | 2 | 61 | 427 | 14 | 2 | 564 | 34 |
| Future Vol, veh/h | 34 | 69 | 67 | 8 | 75 | 2 | 61 | 427 | 14 | 2 | 564 | 34 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 37 | 75 | 73 | 9 | 82 | 2 | 66 | 464 | 15 | 2 | 613 | 37 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1273 | 1248 | 632 | 1259 | 1259 | 472 | 650 | 0 | 0 | 479 | 0 | 0 |
| Stage 1 | 636 | 636 | - | 604 | 604 | - | - | - | - | - | - | - |
| Stage 2 | 638 | 612 | - | 655 | 654 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 144 | 173 | 481 | 147 | 171 | 592 | 931 | - | - | 1078 | - | - |
| Stage 1 | 466 | 472 | - | 485 | 488 | - | - | - | - | - | - | - |
| Stage 2 | 465 | 484 | - | 455 | 463 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 64 | 156 | 481 | 61 | 154 | 592 | 931 | - | - | 1078 | - | - |
| Mov Cap-2 Maneuver | 64 | 156 | - | 61 | 154 | - | - | - | - | - | - | - |
| Stage 1 | 465 | 470 | - | 438 | 440 | - | - | - | - | - | - | - |
| Stage 2 | 341 | 437 | - | 324 | 461 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 98.42 | 73.92 | 1.11 | 0.03 |
| HCM LOS | F | F | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 217 | - | - | 153 | 137 | 6 | - | - |
| HCM Lane V/C Ratio | 0.071 | - | - | 1.21 | 0.676 | 0.002 | - | - |
| HCM Control Delay (s/veh) | 9.2 | 0 | - | 198.4 | 73.9 | 8.3 | 0 | - |
| HCM Lane LOS | A | A | - | F | F | A | A | - |
| HCM 95th %tile Q(veh) | 0.2 | - | - | 10.6 | 3.7 | 0 | - | - |

HCM 7th Signalized Intersection Summary De Young Properties Peach and Benyamer Project
6: Minnewawa Avenue & Shepherd Avenue Near Term WP_AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 103 | 401 | 265 | 43 | 339 | 220 | 200 | 318 | 36 | 217 | 570 | 143 |
| Future Volume (veh/h) | 103 | 401 | 265 | 43 | 339 | 220 | 200 | 318 | 36 | 217 | 570 | 143 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 112 | 436 | 288 | 47 | 368 | 239 | 217 | 346 | 39 | 236 | 620 | 155 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 179 | 932 | 415 | 138 | 448 | 380 | 249 | 584 | 495 | 268 | 604 | 512 |
| Arrive On Green | 0.10 | 0.26 | 0.26 | 0.08 | 0.24 | 0.24 | 0.14 | 0.31 | 0.31 | 0.15 | 0.33 | 0.33 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 112 | 436 | 288 | 47 | 368 | 239 | 217 | 346 | 39 | 236 | 620 | 155 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 6.4 | 10.9 | 17.2 | 2.6 | 19.6 | 14.2 | 12.6 | 16.4 | 1.8 | 13.7 | 34.0 | 7.7 |
| Cycle Q Clear(g_c), s | 6.4 | 10.9 | 17.2 | 2.6 | 19.6 | 14.2 | 12.6 | 16.4 | 1.8 | 13.7 | 34.0 | 7.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 179 | 932 | 415 | 138 | 448 | 380 | 249 | 584 | 495 | 268 | 604 | 512 |
| V/C Ratio(X) | 0.63 | 0.47 | 0.69 | 0.34 | 0.82 | 0.63 | 0.87 | 0.59 | 0.08 | 0.88 | 1.03 | 0.30 |
| Avail Cap(c_a), veh/h | 355 | 1147 | 512 | 355 | 604 | 512 | 355 | 604 | 512 | 355 | 604 | 512 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 45.1 | 32.3 | 34.6 | 45.6 | 37.5 | 35.5 | 44.0 | 30.2 | 25.2 | 43.4 | 35.2 | 26.4 |
| Incr Delay (d2), s/veh | 1.3 | 0.6 | 3.9 | 0.5 | 8.3 | 2.8 | 11.7 | 1.5 | 0.1 | 15.0 | 43.7 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.7 | 4.4 | 6.6 | 1.1 | 9.4 | 5.4 | 6.1 | 7.2 | 0.7 | 7.0 | 22.3 | 2.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 46.4 | 32.8 | 38.6 | 46.1 | 45.8 | 38.3 | 55.7 | 31.7 | 25.2 | 58.4 | 78.9 | 26.9 |
| LnGrp LOS | D | C | D | D | D | D | E | C | C | E | F | C |
| Approach Vol, veh/h | | 836 | | | 654 | | | 602 | | | 1011 | |
| Approach Delay, s/veh | | 36.6 | | | 43.1 | | | 39.9 | | | 66.2 | |
| Approach LOS | | D | | | D | | | D | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 18.7 | 40.0 | 14.6 | 31.2 | 19.8 | 38.9 | 12.2 | 33.6 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 14.6 | 36.0 | 8.4 | 21.6 | 15.7 | 18.4 | 4.6 | 19.2 |
| Green Ext Time (p_c), s | 0.2 | 0.0 | 0.1 | 3.6 | 0.2 | 1.9 | 0.0 | 4.6 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 48.3 |
| HCM 7th LOS | D |

| Intersection | |
|---|---|
| Int Delay, s/veh | 2.5 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 48 | 75 | 0 | 5 | 57 |
| Future Vol, veh/h | 0 | 48 | 75 | 0 | 5 | 57 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 52 | 82 | 0 | 5 | 62 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 154 | 82 | 0 | 0 | 82 | 0 |
| Stage 1 | 82 | - | - | - | - | - |
| Stage 2 | 73 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 837 | 978 | - | - | 1516 | - |
| Stage 1 | 942 | - | - | - | - | - |
| Stage 2 | 950 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 834 | 978 | - | - | 1516 | - |
| Mov Cap-2 Maneuver | 834 | - | - | - | - | - |
| Stage 1 | 942 | - | - | - | - | - |
| Stage 2 | 947 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | 8.89 | 0 | 0.6 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 978 | 145 | - |
| HCM Lane V/C Ratio | - | - | 0.053 | 0.004 | - |
| HCM Control Delay (s/veh) | - | - | 8.9 | 7.4 | 0 |
| HCM Lane LOS | - | - | A | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.2 | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.3 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | | ↑ | | ↱ |
| Traffic Vol, veh/h | 276 | 5 | 0 | 349 | 0 | 21 |
| Future Vol, veh/h | 276 | 5 | 0 | 349 | 0 | 21 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 300 | 5 | 0 | 379 | 0 | 23 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 303 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 737 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 737 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.04 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 737 | - | - | - |
| HCM Lane V/C Ratio | 0.031 | - | - | - |
| HCM Control Delay (s/veh) | 10 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.7 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | ↰ | ↑ | | ↱ |
| Traffic Vol, veh/h | 287 | 10 | 22 | 349 | 0 | 28 |
| Future Vol, veh/h | 287 | 10 | 22 | 349 | 0 | 28 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 312 | 11 | 24 | 379 | 0 | 30 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 323 | 0 | - | 317 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | 4.12 | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | 2.218 | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1237 | - | 0 | 723 |
| Stage 1 | - | - | - | - | 0 | - |
| Stage 2 | - | - | - | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 1237 | - | - | 723 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0.47 | 10.2 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 723 | - | - | 1237 | - |
| HCM Lane V/C Ratio | 0.042 | - | - | 0.019 | - |
| HCM Control Delay (s/veh) | 10.2 | - | - | 8 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.1 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.6 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | | ↑ | | ↱ |
| Traffic Vol, veh/h | 307 | 7 | 0 | 371 | 0 | 41 |
| Future Vol, veh/h | 307 | 7 | 0 | 371 | 0 | 41 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 334 | 8 | 0 | 403 | 0 | 45 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 337 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 705 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 705 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.45 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 705 | - | - | - |
| HCM Lane V/C Ratio | 0.063 | - | - | - |
| HCM Control Delay (s/veh) | 10.5 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.2 | - | - | - |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Near Term WP_PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 21 | 150 | 180 | 217 | 175 | 159 | 174 | 786 | 269 | 141 | 604 | 40 |
| Future Volume (veh/h) | 21 | 150 | 180 | 217 | 175 | 159 | 174 | 786 | 269 | 141 | 604 | 40 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 23 | 163 | 196 | 236 | 190 | 173 | 189 | 854 | 292 | 153 | 657 | 43 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 69 | 293 | 248 | 272 | 229 | 208 | 225 | 1759 | 546 | 188 | 1662 | 516 |
| Arrive On Green | 0.04 | 0.16 | 0.16 | 0.15 | 0.25 | 0.25 | 0.13 | 0.34 | 0.34 | 0.10 | 0.32 | 0.32 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1810 | 916 | 834 | 1795 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 23 | 163 | 196 | 236 | 0 | 363 | 189 | 854 | 292 | 153 | 657 | 43 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1810 | 0 | 1750 | 1795 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 1.1 | 7.2 | 10.6 | 11.4 | 0.0 | 17.5 | 9.2 | 11.7 | 13.1 | 7.4 | 8.8 | 1.7 |
| Cycle Q Clear(g_c), s | 1.1 | 7.2 | 10.6 | 11.4 | 0.0 | 17.5 | 9.2 | 11.7 | 13.1 | 7.4 | 8.8 | 1.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.48 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 69 | 293 | 248 | 272 | 0 | 437 | 225 | 1759 | 546 | 188 | 1662 | 516 |
| V/C Ratio(X) | 0.33 | 0.56 | 0.79 | 0.87 | 0.00 | 0.83 | 0.84 | 0.49 | 0.53 | 0.81 | 0.40 | 0.08 |
| Avail Cap(c_a), veh/h | 275 | 492 | 417 | 312 | 0 | 461 | 296 | 2266 | 703 | 298 | 2284 | 709 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 41.8 | 34.8 | 36.2 | 37.1 | 0.0 | 31.7 | 38.2 | 23.2 | 23.7 | 39.2 | 23.6 | 21.2 |
| Incr Delay (d2), s/veh | 1.0 | 2.0 | 6.6 | 18.3 | 0.0 | 13.4 | 12.2 | 0.7 | 2.6 | 4.2 | 0.5 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.5 | 3.3 | 4.4 | 6.2 | 0.0 | 8.6 | 4.7 | 4.7 | 5.0 | 3.4 | 3.6 | 0.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 42.8 | 36.8 | 42.9 | 55.4 | 0.0 | 45.0 | 50.3 | 23.9 | 26.3 | 43.4 | 24.1 | 21.4 |
| LnGrp LOS | D | D | D | E | | D | D | C | C | D | C | C |
| Approach Vol, veh/h | | 382 | | | 599 | | | 1335 | | | 853 | |
| Approach Delay, s/veh | | 40.3 | | | 49.1 | | | 28.1 | | | 27.4 | |
| Approach LOS | | D | | | D | | | C | | | C | |

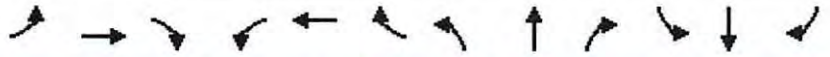
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 16.5 | 34.3 | 9.7 | 28.8 | 14.6 | 36.2 | 18.0 | 20.5 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 11.2 | 10.8 | 3.1 | 19.5 | 9.4 | 15.1 | 13.4 | 12.6 |
| Green Ext Time (p_c), s | 0.1 | 11.1 | 0.0 | 1.3 | 0.1 | 15.4 | 0.1 | 1.4 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 33.4 |
| HCM 7th LOS | C |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Benymer Project

## 2: Willow Avenue & Perrin Avenue

Near Term WP_PM Peak Hour



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 222 | 124 | 244 | 145 | 115 | 55 | 238 | 1039 | 152 | 56 | 786 | 184 |
| Future Volume (veh/h) | 222 | 124 | 244 | 145 | 115 | 55 | 238 | 1039 | 152 | 56 | 786 | 184 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 234 | 131 | 257 | 153 | 121 | 58 | 251 | 1094 | 160 | 59 | 827 | 194 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 172 | 394 | 334 | 172 | 394 | 334 | 332 | 1542 | 479 | 99 | 1346 | 418 |
| Arrive On Green | 0.10 | 0.21 | 0.21 | 0.10 | 0.21 | 0.21 | 0.10 | 0.30 | 0.30 | 0.05 | 0.26 | 0.26 |
| Sat Flow, veh/h | 1810 | 1900 | 1610 | 1810 | 1900 | 1610 | 3483 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 234 | 131 | 257 | 153 | 121 | 58 | 251 | 1094 | 160 | 59 | 827 | 194 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1900 | 1610 | 1810 | 1900 | 1610 | 1742 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 5.0 | 3.1 | 7.9 | 4.4 | 2.8 | 1.6 | 3.7 | 9.9 | 4.1 | 1.7 | 7.4 | 5.3 |
| Cycle Q Clear(g_c), s | 5.0 | 3.1 | 7.9 | 4.4 | 2.8 | 1.6 | 3.7 | 9.9 | 4.1 | 1.7 | 7.4 | 5.3 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 172 | 394 | 334 | 172 | 394 | 334 | 332 | 1542 | 479 | 99 | 1346 | 418 |
| V/C Ratio(X) | 1.36 | 0.33 | 0.77 | 0.89 | 0.31 | 0.17 | 0.76 | 0.71 | 0.33 | 0.59 | 0.61 | 0.46 |
| Avail Cap(c_a), veh/h | 172 | 651 | 552 | 172 | 651 | 552 | 332 | 1764 | 548 | 172 | 1778 | 552 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 23.8 | 17.7 | 19.6 | 23.5 | 17.6 | 17.1 | 23.2 | 16.4 | 14.3 | 24.2 | 17.1 | 16.4 |
| Incr Delay (d2), s/veh | 194.0 | 0.5 | 3.8 | 38.6 | 0.4 | 0.2 | 9.6 | 1.1 | 0.4 | 5.5 | 0.5 | 0.8 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 11.2 | 1.2 | 3.0 | 3.6 | 1.2 | 0.5 | 1.8 | 3.6 | 1.4 | 0.8 | 2.7 | 1.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 217.7 | 18.2 | 23.4 | 62.1 | 18.1 | 17.4 | 32.8 | 17.5 | 14.7 | 29.8 | 17.6 | 17.2 |
| LnGrp LOS | F | B | C | E | B | B | C | B | B | C | B | B |
| Approach Vol, veh/h | | 622 | | | 332 | | | 1505 | | | 1080 | |
| Approach Delay, s/veh | | 95.4 | | | 38.2 | | | 19.7 | | | 18.2 | |
| Approach LOS | | F | | | D | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 7.4 | 20.2 | 9.5 | 15.4 | 9.5 | 18.1 | 9.5 | 15.4 |
| Change Period (Y+Rc), s | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| Max Green Setting (Gmax), s | 5.0 | 18.0 | 5.0 | 18.0 | 5.0 | 18.0 | 5.0 | 18.0 |
| Max Q Clear Time (g_c+I1), s | 13.7 | 11.9 | 6.4 | 9.9 | 5.7 | 9.4 | 7.0 | 4.8 |
| Green Ext Time (p_c), s | 0.0 | 3.8 | 0.0 | 1.0 | 0.0 | 4.1 | 0.0 | 0.6 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 34.3 |
| HCM 7th LOS | C |

| Intersection | |
|---|---|
| Int Delay, s/veh | 6.6 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 422 | 49 | 27 | 379 | 7 | 76 | 39 | 20 | 2 | 39 | 1 |
| Future Vol, veh/h | 1 | 422 | 49 | 27 | 379 | 7 | 76 | 39 | 20 | 2 | 39 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 449 | 52 | 29 | 403 | 7 | 81 | 41 | 21 | 2 | 41 | 1 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 411 | 0 | 0 | 501 | 0 | 0 | 959 | 945 | 475 | 936 | 968 | 407 |
| Stage 1 | - | - | - | - | - | - | 477 | 477 | - | 464 | 464 | - |
| Stage 2 | - | - | - | - | - | - | 481 | 468 | - | 472 | 503 | - |
| Critical Hdwy | 4.12 | - | - | 4.1 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.2 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 1148 | - | - | 1074 | - | - | 239 | 264 | 594 | 247 | 256 | 649 |
| Stage 1 | - | - | - | - | - | - | 573 | 559 | - | 582 | 567 | - |
| Stage 2 | - | - | - | - | - | - | 570 | 565 | - | 577 | 545 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1148 | - | - | 1074 | - | - | 192 | 254 | 594 | 193 | 247 | 649 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 192 | 254 | - | 193 | 247 | - |
| Stage 1 | - | - | - | - | - | - | 572 | 559 | - | 562 | 547 | - |
| Stage 2 | - | - | - | - | - | - | 507 | 545 | - | 514 | 544 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0.02 | 0.55 | 42.86 | 22.75 |
| HCM LOS | | | E | C |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 232 | 4 | - | - | 117 | - | - | 247 |
| HCM Lane V/C Ratio | 0.619 | 0.001 | - | - | 0.027 | - | - | 0.181 |
| HCM Control Delay (s/veh) | 42.9 | 8.1 | 0 | - | 8.4 | 0 | - | 22.7 |
| HCM Lane LOS | E | A | A | - | A | A | - | C |
| HCM 95th %tile Q(veh) | 3.7 | 0 | - | - | 0.1 | - | - | 0.6 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 214.6 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 6 | 257 | 122 | 15 | 287 | 187 | 172 | 351 | 31 | 194 | 223 | 8 |
| Future Vol, veh/h | 6 | 257 | 122 | 15 | 287 | 187 | 172 | 351 | 31 | 194 | 223 | 8 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 6 | 276 | 131 | 16 | 309 | 201 | 185 | 377 | 33 | 209 | 240 | 9 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 118.7 | 218.1 | 312.6 | 169.5 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 31% | 2% | 3% | 46% |
| Vol Thru, % | 63% | 67% | 59% | 52% |
| Vol Right, % | 6% | 32% | 38% | 2% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 554 | 385 | 489 | 425 |
| LT Vol | 172 | 6 | 15 | 194 |
| Through Vol | 351 | 257 | 287 | 223 |
| RT Vol | 31 | 122 | 187 | 8 |
| Lane Flow Rate | 596 | 414 | 526 | 457 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 1.598 | 1.086 | 1.369 | 1.235 |
| Departure Headway (Hd) | 11.858 | 13.342 | 12.149 | 13.137 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 310 | 277 | 305 | 279 |
| Service Time | 9.858 | 11.342 | 10.149 | 11.137 |
| HCM Lane V/C Ratio | 1.923 | 1.495 | 1.725 | 1.638 |
| HCM Control Delay, s/veh | 312.6 | 118.7 | 218.1 | 169.5 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 29 | 12 | 20.9 | 16 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 146 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 38 | 98 | 91 | 15 | 96 | 2 | 88 | 616 | 8 | 1 | 436 | 38 |
| Future Vol, veh/h | 38 | 98 | 91 | 15 | 96 | 2 | 88 | 616 | 8 | 1 | 436 | 38 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 92 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 40 | 103 | 96 | 16 | 101 | 2 | 93 | 648 | 8 | 1 | 474 | 40 |

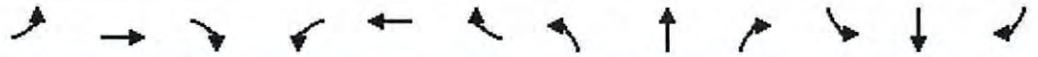
| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1380 | 1338 | 494 | 1365 | 1354 | 653 | 514 | 0 | 0 | 657 | 0 | 0 |
| Stage 1 | 496 | 496 | - | 838 | 838 | - | - | - | - | - | - | - |
| Stage 2 | 884 | 842 | - | 528 | 516 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 122 | 153 | 575 | 124 | 150 | 468 | 1052 | - | - | 926 | - | - |
| Stage 1 | 556 | 545 | - | 361 | 382 | - | - | - | - | - | - | - |
| Stage 2 | 340 | 380 | - | 534 | 534 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | ~ 25 | 131 | 575 | 22 | 129 | 468 | 1052 | - | - | 926 | - | - |
| Mov Cap-2 Maneuver | ~ 25 | 131 | - | 22 | 129 | - | - | - | - | - | - | - |
| Stage 1 | 555 | 544 | - | 311 | 329 | - | - | - | - | - | - | - |
| Stage 2 | 202 | 327 | - | 360 | 533 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, $/veh | $ 797.82 | $ 381.32 | 1.08 | 0.02 |
| HCM LOS | F | F | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 222 | - | - | 94 | 78 | 4 | - | - |
| HCM Lane V/C Ratio | 0.088 | - | - | 2.547 | 1.522 | 0.001 | - | - |
| HCM Control Delay (s/veh) | 8.8 | 0 | - | $ 797.8 | $ 381.3 | 8.9 | 0 | - |
| HCM Lane LOS | A | A | - | F | F | A | A | - |
| HCM 95th %tile Q(veh) | 0.3 | - | - | 22.2 | 9.7 | 0 | - | - |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

HCM 7th Signalized Intersection Summary De Young Properties Peach and Benymer Project
6: Minnewawa Avenue & Shepherd Avenue Near Term WP_PM Peak Hour



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 189 | 387 | 259 | 31 | 319 | 240 | 281 | 643 | 52 | 159 | 475 | 152 |
| Future Volume (veh/h) | 189 | 387 | 259 | 31 | 319 | 240 | 281 | 643 | 52 | 159 | 475 | 152 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 199 | 407 | 273 | 33 | 336 | 253 | 296 | 677 | 55 | 167 | 500 | 160 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 230 | 1018 | 454 | 115 | 415 | 352 | 324 | 678 | 574 | 197 | 542 | 460 |
| Arrive On Green | 0.13 | 0.28 | 0.28 | 0.06 | 0.22 | 0.22 | 0.18 | 0.36 | 0.36 | 0.11 | 0.29 | 0.29 |
| Sat Flow, veh/h | 1810 | 3610 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 199 | 407 | 273 | 33 | 336 | 253 | 296 | 677 | 55 | 167 | 500 | 160 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1805 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 11.9 | 10.1 | 16.2 | 1.9 | 18.6 | 16.1 | 18.0 | 40.0 | 2.5 | 10.3 | 28.9 | 8.9 |
| Cycle Q Clear(g_c), s | 11.9 | 10.1 | 16.2 | 1.9 | 18.6 | 16.1 | 18.0 | 40.0 | 2.5 | 10.3 | 28.9 | 8.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 230 | 1018 | 454 | 115 | 415 | 352 | 324 | 678 | 574 | 197 | 542 | 460 |
| V/C Ratio(X) | 0.87 | 0.40 | 0.60 | 0.29 | 0.81 | 0.72 | 0.91 | 1.00 | 0.10 | 0.85 | 0.92 | 0.35 |
| Avail Cap(c_a), veh/h | 343 | 1109 | 495 | 343 | 584 | 495 | 338 | 678 | 574 | 335 | 570 | 483 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 47.4 | 32.1 | 34.3 | 49.4 | 41.1 | 40.1 | 44.4 | 35.3 | 23.3 | 48.2 | 37.9 | 30.9 |
| Incr Delay (d2), s/veh | 9.9 | 0.4 | 2.4 | 0.5 | 7.7 | 4.7 | 27.1 | 34.2 | 0.1 | 3.9 | 20.5 | 0.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 5.8 | 4.2 | 6.3 | 0.9 | 9.1 | 6.5 | 10.1 | 23.5 | 0.9 | 4.7 | 16.0 | 3.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 57.3 | 32.5 | 36.7 | 50.0 | 48.7 | 44.8 | 71.5 | 69.5 | 23.4 | 52.1 | 58.5 | 31.5 |
| LnGrp LOS | E | C | D | D | D | D | E | E | C | D | E | C |
| Approach Vol, veh/h | | 879 | | | 622 | | | 1028 | | | 827 | |
| Approach Delay, s/veh | | 39.4 | | | 47.2 | | | 67.6 | | | 52.0 | |
| Approach LOS | | D | | | D | | | E | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 24.1 | 38.3 | 18.0 | 30.2 | 16.3 | 46.1 | 11.0 | 37.2 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 20.0 | 30.9 | 13.9 | 20.6 | 12.3 | 42.0 | 3.9 | 18.2 |
| Green Ext Time (p_c), s | 0.1 | 1.5 | 0.1 | 3.6 | 0.1 | 0.0 | 0.0 | 4.5 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 52.6 |
| HCM 7th LOS | D |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.7 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 33 | 91 | 0 | 16 | 97 |
| Future Vol, veh/h | 0 | 33 | 91 | 0 | 16 | 97 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 36 | 99 | 0 | 17 | 105 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 239 | 99 | 0 | 0 | 99 | 0 |
| Stage 1 | 99 | - | - | - | - | - |
| Stage 2 | 140 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 749 | 957 | - | - | 1494 | - |
| Stage 1 | 925 | - | - | - | - | - |
| Stage 2 | 887 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 740 | 957 | - | - | 1494 | - |
| Mov Cap-2 Maneuver | 740 | - | - | - | - | - |
| Stage 1 | 925 | - | - | - | - | - |
| Stage 2 | 876 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | 8.91 | 0 | 1.05 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 957 | 255 | - |
| HCM Lane V/C Ratio | - | - | 0.037 | 0.012 | - |
| HCM Control Delay (s/veh) | - | - | 8.9 | 7.4 | 0 |
| HCM Lane LOS | - | - | A | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.2 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | | ↑ | | ↱ |
| Traffic Vol, veh/h | 343 | 16 | 0 | 358 | 0 | 14 |
| Future Vol, veh/h | 343 | 16 | 0 | 358 | 0 | 14 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 373 | 17 | 0 | 389 | 0 | 15 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 382 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 666 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 666 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.53 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 666 | - | - | - |
| HCM Lane V/C Ratio | 0.023 | - | - | - |
| HCM Control Delay (s/veh) | 10.5 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | ↖ | ↑ | | ↗ |
| Traffic Vol, veh/h | 326 | 31 | 71 | 358 | 0 | 19 |
| Future Vol, veh/h | 326 | 31 | 71 | 358 | 0 | 19 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 354 | 34 | 77 | 389 | 0 | 21 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 388 | 0 | - | 371 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | 4.12 | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | 2.218 | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1170 | - | 0 | 675 |
| Stage 1 | - | - | - | - | 0 | - |
| Stage 2 | - | - | - | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 1170 | - | - | 675 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 1.37 | 10.5 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 675 | - | - | 1170 | - |
| HCM Lane V/C Ratio | 0.031 | - | - | 0.066 | - |
| HCM Control Delay (s/veh) | 10.5 | - | - | 8.3 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.2 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.4 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | | ↑ | | ↗ |
| Traffic Vol, veh/h | 321 | 24 | 0 | 429 | 0 | 28 |
| Future Vol, veh/h | 321 | 24 | 0 | 429 | 0 | 28 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 349 | 26 | 0 | 466 | 0 | 30 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 362 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 683 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 683 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.52 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 683 | - | - | - |
| HCM Lane V/C Ratio | 0.045 | - | - | - |
| HCM Control Delay (s/veh) | 10.5 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

# HCM 7th Signalized Intersection Summary
## 4: Minnewawa Avenue & Behymer Avenue

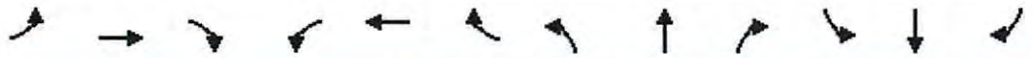


| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Volume (veh/h) | 8 | 162 | 125 | 25 | 222 | 253 | 85 | 240 | 19 | 175 | 207 | 4 |
| Future Volume (veh/h) | 8 | 162 | 125 | 25 | 222 | 253 | 85 | 240 | 19 | 175 | 207 | 4 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1885 | 1885 | 1885 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 8 | 167 | 129 | 26 | 229 | 261 | 88 | 261 | 20 | 180 | 213 | 4 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.92 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 123 | 377 | 282 | 135 | 312 | 334 | 237 | 443 | 31 | 370 | 313 | 5 |
| Arrive On Green | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 |
| Sat Flow, veh/h | 14 | 971 | 726 | 38 | 803 | 861 | 291 | 1363 | 95 | 624 | 964 | 16 |
| Grp Volume(v), veh/h | 304 | 0 | 0 | 516 | 0 | 0 | 369 | 0 | 0 | 397 | 0 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1710 | 0 | 0 | 1703 | 0 | 0 | 1749 | 0 | 0 | 1604 | 0 | 0 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 4.1 | 0.0 | 0.0 | 8.2 | 0.0 | 0.0 | 5.3 | 0.0 | 0.0 | 6.3 | 0.0 | 0.0 |
| Prop In Lane | 0.03 | | 0.42 | 0.05 | | 0.51 | 0.24 | | 0.05 | 0.45 | | 0.01 |
| Lane Grp Cap(c), veh/h | 781 | 0 | 0 | 781 | 0 | 0 | 710 | 0 | 0 | 688 | 0 | 0 |
| V/C Ratio(X) | 0.39 | 0.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.52 | 0.00 | 0.00 | 0.58 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h | 1094 | 0 | 0 | 1092 | 0 | 0 | 1111 | 0 | 0 | 1038 | 0 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh | 7.1 | 0.0 | 0.0 | 8.4 | 0.0 | 0.0 | 8.9 | 0.0 | 0.0 | 9.2 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 0.3 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.8 | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 7.4 | 0.0 | 0.0 | 9.3 | 0.0 | 0.0 | 9.5 | 0.0 | 0.0 | 9.9 | 0.0 | 0.0 |
| LnGrp LOS | A | | | A | | | A | | | A | | |
| Approach Vol, veh/h | | 304 | | | 516 | | | 369 | | | 397 | |
| Approach Delay, s/veh | | 7.4 | | | 9.3 | | | 9.5 | | | 9.9 | |
| Approach LOS | | A | | | A | | | A | | | A | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 14.7 | | 16.7 | | 14.7 | | 16.7 | | | | |
| Change Period (Y+Rc), s | | 4.5 | | 4.5 | | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | | 18.0 | | 18.0 | | 18.0 | | 18.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 7.3 | | 6.1 | | 8.3 | | 10.2 | | | | |
| Green Ext Time (p_c), s | | 1.7 | | 1.3 | | 1.9 | | 1.9 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | 9.2 | | | | | | | | | |
| HCM 7th LOS | | | A | | | | | | | | | |

# HCM 7th Signalized Intersection Summary — De Young Properties Peach and Behymer Project

## 4: Minnewawa Avenue & Behymer Avenue

Existing Year WP_PM Peak Hour MIT



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 5 | 197 | 82 | 15 | 233 | 179 | 127 | 259 | 30 | 187 | 168 | 7 |
| Future Volume (veh/h) | 5 | 197 | 82 | 15 | 233 | 179 | 127 | 259 | 30 | 187 | 168 | 7 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 5 | 212 | 88 | 16 | 251 | 192 | 137 | 278 | 32 | 201 | 181 | 8 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 118 | 446 | 182 | 125 | 354 | 261 | 296 | 429 | 45 | 411 | 293 | 11 |
| Arrive On Green | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 |
| Sat Flow, veh/h | 8 | 1251 | 511 | 24 | 994 | 732 | 411 | 1185 | 123 | 663 | 809 | 31 |
| Grp Volume(v), veh/h | 305 | 0 | 0 | 459 | 0 | 0 | 447 | 0 | 0 | 390 | 0 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1770 | 0 | 0 | 1751 | 0 | 0 | 1719 | 0 | 0 | 1503 | 0 | 0 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 4.3 | 0.0 | 0.0 | 7.2 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | 6.4 | 0.0 | 0.0 |
| Prop In Lane | 0.02 | | 0.29 | 0.03 | | 0.42 | 0.31 | | 0.07 | 0.52 | | 0.02 |
| Lane Grp Cap(c), veh/h | 745 | 0 | 0 | 740 | 0 | 0 | 770 | 0 | 0 | 715 | 0 | 0 |
| V/C Ratio(X) | 0.41 | 0.00 | 0.00 | 0.62 | 0.00 | 0.00 | 0.58 | 0.00 | 0.00 | 0.55 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h | 1300 | 0 | 0 | 1287 | 0 | 0 | 1655 | 0 | 0 | 1465 | 0 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh | 8.0 | 0.0 | 0.0 | 8.9 | 0.0 | 0.0 | 8.6 | 0.0 | 0.0 | 8.5 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 0.4 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.9 | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 8.4 | 0.0 | 0.0 | 9.8 | 0.0 | 0.0 | 9.3 | 0.0 | 0.0 | 9.1 | 0.0 | 0.0 |
| LnGrp LOS | A | | | A | | | A | | | A | | |
| Approach Vol, veh/h | | 305 | | | 459 | | | 447 | | | 390 | |
| Approach Delay, s/veh | | 8.4 | | | 9.8 | | | 9.3 | | | 9.1 | |
| Approach LOS | | A | | | A | | | A | | | A | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 16.1 | | 15.9 | | 16.1 | | 15.9 | | | | |
| Change Period (Y+Rc), s | | 4.5 | | 4.5 | | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | | 29.5 | | 21.5 | | 29.5 | | 21.5 | | | | |
| Max Q Clear Time (g_c+I1), s | | 8.6 | | 6.3 | | 8.4 | | 9.2 | | | | |
| Green Ext Time (p_c), s | | 3.0 | | 1.5 | | 2.8 | | 2.2 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | 9.2 | | | | | | | | | |
| HCM 7th LOS | | | A | | | | | | | | | |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 17 |
| Intersection LOS | C |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 0 | 270 | 29 | 15 | 490 | 2 | 79 | 30 | 15 | 7 | 24 | 0 |
| Future Vol, veh/h | 0 | 270 | 29 | 15 | 490 | 2 | 79 | 30 | 15 | 7 | 24 | 0 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 293 | 32 | 16 | 533 | 2 | 86 | 33 | 16 | 8 | 26 | 0 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 12.6 | 21.5 | 11.1 | 9.9 |
| HCM LOS | B | C | B | A |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 64% | 0% | 3% | 23% |
| Vol Thru, % | 24% | 90% | 97% | 77% |
| Vol Right, % | 12% | 10% | 0% | 0% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 124 | 299 | 507 | 31 |
| LT Vol | 79 | 0 | 15 | 7 |
| Through Vol | 30 | 270 | 490 | 24 |
| RT Vol | 15 | 29 | 2 | 0 |
| Lane Flow Rate | 135 | 325 | 551 | 34 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.231 | 0.465 | 0.755 | 0.06 |
| Departure Headway (Hd) | 6.158 | 5.152 | 4.934 | 6.428 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 582 | 699 | 738 | 555 |
| Service Time | 4.207 | 3.188 | 2.934 | 4.488 |
| HCM Lane V/C Ratio | 0.232 | 0.465 | 0.747 | 0.061 |
| HCM Control Delay, s/veh | 11.1 | 12.6 | 21.5 | 9.9 |
| HCM Lane LOS | B | B | C | A |
| HCM 95th-tile Q | 0.9 | 2.5 | 7 | 0.2 |

# HCM 7th Signalized Intersection Summary — De Young Properties Peach and Behymer Project

## 4: Minnewawa Avenue & Behymer Avenue

Near Term WP_AM Peak Hour MIT



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 9 | 184 | 149 | 25 | 280 | 258 | 121 | 275 | 19 | 188 | 282 | 7 |
| Future Volume (veh/h) | 9 | 184 | 149 | 25 | 280 | 258 | 121 | 275 | 19 | 188 | 282 | 7 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1885 | 1885 | 1885 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 9 | 190 | 154 | 26 | 289 | 266 | 125 | 284 | 20 | 194 | 291 | 7 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 77 | 367 | 288 | 87 | 341 | 300 | 160 | 373 | 26 | 244 | 478 | 11 |
| Arrive On Green | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.09 | 0.22 | 0.22 | 0.14 | 0.26 | 0.26 |
| Sat Flow, veh/h | 14 | 962 | 755 | 36 | 894 | 785 | 1767 | 1713 | 121 | 1767 | 1804 | 43 |
| Grp Volume(v), veh/h | 353 | 0 | 0 | 581 | 0 | 0 | 125 | 0 | 304 | 194 | 0 | 298 |
| Grp Sat Flow(s),veh/h/ln | 1730 | 0 | 0 | 1715 | 0 | 0 | 1767 | 0 | 1834 | 1767 | 0 | 1848 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 5.8 | 0.0 | 0.0 | 3.6 | 0.0 | 8.0 | 5.5 | 0.0 | 7.3 |
| Cycle Q Clear(g_c), s | 8.2 | 0.0 | 0.0 | 16.2 | 0.0 | 0.0 | 3.6 | 0.0 | 8.0 | 5.5 | 0.0 | 7.3 |
| Prop In Lane | 0.03 | | 0.44 | 0.04 | | 0.46 | 1.00 | | 0.07 | 1.00 | | 0.02 |
| Lane Grp Cap(c), veh/h | 732 | 0 | 0 | 728 | 0 | 0 | 160 | 0 | 399 | 244 | 0 | 489 |
| V/C Ratio(X) | 0.48 | 0.00 | 0.00 | 0.80 | 0.00 | 0.00 | 0.78 | 0.00 | 0.76 | 0.80 | 0.00 | 0.61 |
| Avail Cap(c_a), veh/h | 826 | 0 | 0 | 822 | 0 | 0 | 258 | 0 | 696 | 327 | 0 | 773 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 12.4 | 0.0 | 0.0 | 14.8 | 0.0 | 0.0 | 22.9 | 0.0 | 18.9 | 21.5 | 0.0 | 16.6 |
| Incr Delay (d2), s/veh | 0.5 | 0.0 | 0.0 | 5.0 | 0.0 | 0.0 | 7.9 | 0.0 | 3.0 | 9.5 | 0.0 | 1.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.5 | 0.0 | 0.0 | 5.6 | 0.0 | 0.0 | 1.7 | 0.0 | 3.4 | 2.7 | 0.0 | 2.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 12.9 | 0.0 | 0.0 | 19.8 | 0.0 | 0.0 | 30.8 | 0.0 | 21.9 | 30.9 | 0.0 | 17.8 |
| LnGrp LOS | B | | | B | | | C | | C | C | | B |
| Approach Vol, veh/h | | 353 | | | 581 | | | 429 | | | 492 | |
| Approach Delay, s/veh | | 12.9 | | | 19.8 | | | 24.5 | | | 23.0 | |
| Approach LOS | | B | | | B | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 11.6 | 15.7 | | 24.1 | 9.2 | 18.1 | | 24.1 | | | | |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 9.5 | 19.5 | | 22.5 | 7.5 | 21.5 | | 22.5 | | | | |
| Max Q Clear Time (g_c+I1), s | 7.5 | 10.0 | | 10.2 | 5.6 | 9.3 | | 18.2 | | | | |
| Green Ext Time (p_c), s | 0.1 | 1.2 | | 1.6 | 0.1 | 1.3 | | 1.4 | | | | |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 20.4 |
| HCM 7th LOS | C |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 34 | 69 | 67 | 8 | 75 | 2 | 61 | 427 | 14 | 2 | 564 | 34 |
| Future Volume (veh/h) | 34 | 69 | 67 | 8 | 75 | 2 | 61 | 427 | 14 | 2 | 564 | 34 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 37 | 75 | 73 | 9 | 82 | 2 | 66 | 464 | 15 | 2 | 613 | 37 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 145 | 128 | 108 | 112 | 281 | 6 | 115 | 886 | 29 | 5 | 751 | 45 |
| Arrive On Green | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.06 | 0.50 | 0.50 | 0.00 | 0.43 | 0.43 |
| Sat Flow, veh/h | 224 | 780 | 654 | 85 | 1707 | 39 | 1767 | 1787 | 58 | 1767 | 1732 | 105 |
| Grp Volume(v), veh/h | 185 | 0 | 0 | 93 | 0 | 0 | 66 | 0 | 479 | 2 | 0 | 650 |
| Grp Sat Flow(s),veh/h/ln | 1658 | 0 | 0 | 1831 | 0 | 0 | 1767 | 0 | 1845 | 1767 | 0 | 1837 |
| Q Serve(g_s), s | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 0.0 | 7.1 | 0.0 | 0.0 | 12.4 |
| Cycle Q Clear(g_c), s | 4.1 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 1.5 | 0.0 | 7.1 | 0.0 | 0.0 | 12.4 |
| Prop In Lane | 0.20 | | 0.39 | 0.10 | | 0.02 | 1.00 | | 0.03 | 1.00 | | 0.06 |
| Lane Grp Cap(c), veh/h | 380 | 0 | 0 | 400 | 0 | 0 | 115 | 0 | 915 | 5 | 0 | 796 |
| V/C Ratio(X) | 0.49 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.58 | 0.00 | 0.52 | 0.41 | 0.00 | 0.82 |
| Avail Cap(c_a), veh/h | 846 | 0 | 0 | 910 | 0 | 0 | 225 | 0 | 1078 | 221 | 0 | 1068 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 15.7 | 0.0 | 0.0 | 14.7 | 0.0 | 0.0 | 18.2 | 0.0 | 6.9 | 19.9 | 0.0 | 9.9 |
| Incr Delay (d2), s/veh | 1.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 4.5 | 0.0 | 0.5 | 47.6 | 0.0 | 3.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.4 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.7 | 0.0 | 1.9 | 0.1 | 0.0 | 4.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 16.6 | 0.0 | 0.0 | 15.0 | 0.0 | 0.0 | 22.7 | 0.0 | 7.3 | 67.5 | 0.0 | 13.6 |
| LnGrp LOS | B | | | B | | | C | | A | E | | B |
| Approach Vol, veh/h | | 185 | | | 93 | | | 545 | | | 652 | |
| Approach Delay, s/veh | | 16.6 | | | 15.0 | | | 9.2 | | | 13.8 | |
| Approach LOS | | B | | | B | | | A | | | B | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 4.6 | 24.4 | | 11.1 | 7.1 | 21.9 | | 11.1 |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 |
| Max Green Setting (Gmax), s | 5.6 | 23.4 | | 18.1 | 5.1 | 23.3 | | 18.1 |
| Max Q Clear Time (g_c+I1), s | 2.0 | 9.1 | | 6.1 | 3.5 | 14.4 | | 3.8 |
| Green Ext Time (p_c), s | 0.0 | 2.6 | | 0.8 | 0.0 | 2.9 | | 0.3 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 12.5 |
| HCM 7th LOS | B |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 17.3 |
| Intersection LOS | C |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 422 | 49 | 27 | 379 | 7 | 76 | 39 | 20 | 2 | 39 | 1 |
| Future Vol, veh/h | 1 | 422 | 49 | 27 | 379 | 7 | 76 | 39 | 20 | 2 | 39 | 1 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 449 | 52 | 29 | 403 | 7 | 81 | 41 | 21 | 2 | 41 | 1 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 19.8 | 17 | 11.6 | 10.3 |
| HCM LOS | C | C | B | B |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 56% | 0% | 7% | 5% |
| Vol Thru, % | 29% | 89% | 92% | 93% |
| Vol Right, % | 15% | 10% | 2% | 2% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 135 | 472 | 413 | 42 |
| LT Vol | 76 | 1 | 27 | 2 |
| Through Vol | 39 | 422 | 379 | 39 |
| RT Vol | 20 | 49 | 7 | 1 |
| Lane Flow Rate | 144 | 502 | 439 | 45 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.253 | 0.712 | 0.636 | 0.082 |
| Departure Headway (Hd) | 6.345 | 5.108 | 5.213 | 6.617 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 564 | 708 | 690 | 538 |
| Service Time | 4.406 | 3.149 | 3.256 | 4.694 |
| HCM Lane V/C Ratio | 0.255 | 0.709 | 0.636 | 0.084 |
| HCM Control Delay, s/veh | 11.6 | 19.8 | 17 | 10.3 |
| HCM Lane LOS | B | C | C | B |
| HCM 95th-tile Q | 1 | 6 | 4.6 | 0.3 |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 6 | 257 | 122 | 15 | 287 | 187 | 172 | 351 | 31 | 194 | 223 | 8 |
| Future Volume (veh/h) | 6 | 257 | 122 | 15 | 287 | 187 | 172 | 351 | 31 | 194 | 223 | 8 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 6 | 276 | 131 | 16 | 309 | 201 | 185 | 377 | 33 | 209 | 240 | 9 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 69 | 405 | 189 | 75 | 358 | 226 | 233 | 460 | 40 | 260 | 510 | 19 |
| Arrive On Green | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.13 | 0.27 | 0.27 | 0.15 | 0.29 | 0.29 |
| Sat Flow, veh/h | 7 | 1206 | 564 | 21 | 1067 | 673 | 1781 | 1695 | 148 | 1767 | 1777 | 67 |
| Grp Volume(v), veh/h | 413 | 0 | 0 | 526 | 0 | 0 | 185 | 0 | 410 | 209 | 0 | 249 |
| Grp Sat Flow(s),veh/h/ln | 1777 | 0 | 0 | 1761 | 0 | 0 | 1781 | 0 | 1844 | 1767 | 0 | 1844 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 5.5 | 0.0 | 11.4 | 6.3 | 0.0 | 6.1 |
| Cycle Q Clear(g_c), s | 11.1 | 0.0 | 0.0 | 15.4 | 0.0 | 0.0 | 5.5 | 0.0 | 11.4 | 6.3 | 0.0 | 6.1 |
| Prop In Lane | 0.01 | | 0.32 | 0.03 | | 0.38 | 1.00 | | 0.08 | 1.00 | | 0.04 |
| Lane Grp Cap(c), veh/h | 663 | 0 | 0 | 659 | 0 | 0 | 233 | 0 | 500 | 260 | 0 | 529 |
| V/C Ratio(X) | 0.62 | 0.00 | 0.00 | 0.80 | 0.00 | 0.00 | 0.79 | 0.00 | 0.82 | 0.81 | 0.00 | 0.47 |
| Avail Cap(c_a), veh/h | 730 | 0 | 0 | 726 | 0 | 0 | 315 | 0 | 690 | 339 | 0 | 717 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 15.8 | 0.0 | 0.0 | 17.2 | 0.0 | 0.0 | 23.1 | 0.0 | 18.7 | 22.6 | 0.0 | 16.1 |
| Incr Delay (d2), s/veh | 1.4 | 0.0 | 0.0 | 5.8 | 0.0 | 0.0 | 9.5 | 0.0 | 5.6 | 10.2 | 0.0 | 0.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 3.9 | 0.0 | 0.0 | 6.0 | 0.0 | 0.0 | 2.8 | 0.0 | 5.1 | 3.1 | 0.0 | 2.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 17.2 | 0.0 | 0.0 | 23.0 | 0.0 | 0.0 | 32.6 | 0.0 | 24.3 | 32.9 | 0.0 | 16.7 |
| LnGrp LOS | B | | | C | | | C | | C | C | | B |
| Approach Vol, veh/h | | 413 | | | 526 | | | 595 | | | 458 | |
| Approach Delay, s/veh | | 17.2 | | | 23.0 | | | 26.9 | | | 24.1 | |
| Approach LOS | | B | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.5 | 19.4 | | 22.9 | 11.7 | 20.2 | | 22.9 |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 |
| Max Green Setting (Gmax), s | 10.5 | 20.5 | | 20.5 | 9.7 | 21.3 | | 20.5 |
| Max Q Clear Time (g_c+I1), s | 13.1 | 13.4 | | 13.1 | 7.5 | 8.1 | | 17.4 |
| Green Ext Time (p_c), s | 0.1 | 1.4 | | 1.4 | 0.1 | 1.1 | | 0.9 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 23.2 |
| HCM 7th LOS | C |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 38 | 98 | 91 | 15 | 96 | 2 | 88 | 616 | 8 | 1 | 436 | 38 |
| Future Volume (veh/h) | 38 | 98 | 91 | 15 | 96 | 2 | 88 | 616 | 8 | 1 | 436 | 38 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 40 | 103 | 96 | 16 | 101 | 2 | 93 | 648 | 9 | 1 | 459 | 40 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.92 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 144 | 168 | 137 | 129 | 340 | 6 | 145 | 827 | 11 | 5 | 622 | 54 |
| Arrive On Green | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.08 | 0.45 | 0.45 | 0.00 | 0.37 | 0.37 |
| Sat Flow, veh/h | 177 | 822 | 671 | 119 | 1666 | 31 | 1781 | 1840 | 26 | 1767 | 1683 | 147 |
| Grp Volume(v), veh/h | 239 | 0 | 0 | 119 | 0 | 0 | 93 | 0 | 657 | 1 | 0 | 499 |
| Grp Sat Flow(s),veh/h/ln | 1670 | 0 | 0 | 1816 | 0 | 0 | 1781 | 0 | 1866 | 1767 | 0 | 1829 |
| Q Serve(g_s), s | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 11.7 | 0.0 | 0.0 | 9.2 |
| Cycle Q Clear(g_c), s | 5.1 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 2.0 | 0.0 | 11.7 | 0.0 | 0.0 | 9.2 |
| Prop In Lane | 0.17 | | 0.40 | 0.13 | | 0.02 | 1.00 | | 0.01 | 1.00 | | 0.08 |
| Lane Grp Cap(c), veh/h | 448 | 0 | 0 | 475 | 0 | 0 | 145 | 0 | 839 | 5 | 0 | 676 |
| V/C Ratio(X) | 0.53 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.64 | 0.00 | 0.78 | 0.22 | 0.00 | 0.74 |
| Avail Cap(c_a), veh/h | 878 | 0 | 0 | 931 | 0 | 0 | 228 | 0 | 1322 | 226 | 0 | 1296 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 14.4 | 0.0 | 0.0 | 13.2 | 0.0 | 0.0 | 17.4 | 0.0 | 9.1 | 19.5 | 0.0 | 10.7 |
| Incr Delay (d2), s/veh | 1.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 4.7 | 0.0 | 1.6 | 23.0 | 0.0 | 1.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.7 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.9 | 0.0 | 3.5 | 0.0 | 0.0 | 3.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 15.4 | 0.0 | 0.0 | 13.5 | 0.0 | 0.0 | 22.1 | 0.0 | 10.8 | 42.4 | 0.0 | 12.3 |
| LnGrp LOS | B | | | B | | | C | | B | D | | B |
| Approach Vol, veh/h | | 239 | | | 119 | | | 750 | | | 500 | |
| Approach Delay, s/veh | | 15.4 | | | 13.5 | | | 12.2 | | | 12.3 | |
| Approach LOS | | B | | | B | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 4.6 | 22.1 | | 12.5 | 7.7 | 19.0 | | 12.5 |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 |
| Max Green Setting (Gmax), s | 5.0 | 27.7 | | 18.3 | 5.0 | 27.7 | | 18.3 |
| Max Q Clear Time (g_c+I1), s | 2.0 | 13.7 | | 7.1 | 4.0 | 11.2 | | 4.1 |
| Green Ext Time (p_c), s | 0.0 | 3.9 | | 1.0 | 0.0 | 3.0 | | 0.5 |

| Intersection Summary | | |
|---|---|---|
| HCM 7th Control Delay, s/veh | 12.8 | |
| HCM 7th LOS | B | |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Cumulative Year WP_AM Peak Hour MIT

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 84 | 223 | 267 | 547 | 293 | 337 | 193 | 784 | 265 | 150 | 913 | 57 |
| Future Volume (veh/h) | 84 | 223 | 267 | 547 | 293 | 337 | 193 | 784 | 265 | 150 | 913 | 57 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 87 | 230 | 275 | 564 | 302 | 347 | 199 | 808 | 273 | 155 | 941 | 59 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 123 | 366 | 311 | 615 | 544 | 461 | 223 | 1592 | 777 | 184 | 1473 | 457 |
| Arrive On Green | 0.07 | 0.20 | 0.20 | 0.18 | 0.29 | 0.29 | 0.13 | 0.31 | 0.31 | 0.10 | 0.29 | 0.29 |
| Sat Flow, veh/h | 1767 | 1856 | 1572 | 3456 | 1870 | 1585 | 1781 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 87 | 230 | 275 | 564 | 302 | 347 | 199 | 808 | 273 | 155 | 941 | 59 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1856 | 1572 | 1728 | 1870 | 1585 | 1781 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 5.1 | 12.0 | 18.1 | 17.0 | 14.5 | 21.1 | 11.7 | 13.7 | 11.3 | 9.1 | 17.2 | 2.9 |
| Cycle Q Clear(g_c), s | 5.1 | 12.0 | 18.1 | 17.0 | 14.5 | 21.1 | 11.7 | 13.7 | 11.3 | 9.1 | 17.2 | 2.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 123 | 366 | 311 | 615 | 544 | 461 | 223 | 1592 | 777 | 184 | 1473 | 457 |
| V/C Ratio(X) | 0.71 | 0.63 | 0.89 | 0.92 | 0.56 | 0.75 | 0.89 | 0.51 | 0.35 | 0.84 | 0.64 | 0.13 |
| Avail Cap(c_a), veh/h | 147 | 411 | 348 | 615 | 564 | 478 | 223 | 1761 | 829 | 231 | 1776 | 551 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 48.3 | 39.0 | 41.4 | 42.8 | 31.8 | 34.2 | 45.7 | 29.9 | 16.7 | 46.7 | 32.8 | 27.7 |
| Incr Delay (d2), s/veh | 8.4 | 2.8 | 21.7 | 18.3 | 2.1 | 8.0 | 32.0 | 0.8 | 0.9 | 16.4 | 1.5 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.5 | 5.6 | 8.6 | 8.6 | 6.6 | 8.8 | 7.1 | 5.7 | 4.0 | 4.8 | 7.2 | 1.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 56.7 | 41.8 | 63.1 | 61.1 | 33.9 | 42.1 | 77.7 | 30.7 | 17.6 | 63.1 | 34.3 | 28.1 |
| LnGrp LOS | E | D | E | E | C | D | E | C | B | E | C | C |
| Approach Vol, veh/h | | 592 | | | 1213 | | | 1280 | | | 1155 | |
| Approach Delay, s/veh | | 53.9 | | | 48.9 | | | 35.2 | | | 37.9 | |
| Approach LOS | | D | | | D | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 18.6 | 36.6 | 13.6 | 37.4 | 16.4 | 38.8 | 23.5 | 27.5 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 13.3 | 37.2 | 8.8 | 32.0 | 13.9 | 36.6 | 18.9 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 13.7 | 19.2 | 7.1 | 23.1 | 11.1 | 15.7 | 19.0 | 20.1 |
| Green Ext Time (p_c), s | 0.0 | 11.7 | 0.0 | 3.7 | 0.1 | 13.2 | 0.0 | 0.9 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 42.5 |
| HCM 7th LOS | D |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 2: Willow Avenue & Perrin Avenue

Cumulative Year WP_AM Peak Hour MIT



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 278 | 126 | 209 | 197 | 200 | 76 | 160 | 861 | 134 | 45 | 1252 | 449 |
| Future Volume (veh/h) | 278 | 126 | 209 | 197 | 200 | 76 | 160 | 861 | 134 | 45 | 1252 | 449 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 287 | 130 | 215 | 203 | 206 | 78 | 165 | 888 | 138 | 46 | 1291 | 463 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 337 | 357 | 302 | 249 | 264 | 223 | 270 | 1979 | 614 | 101 | 1908 | 592 |
| Arrive On Green | 0.19 | 0.19 | 0.19 | 0.14 | 0.14 | 0.14 | 0.08 | 0.39 | 0.39 | 0.06 | 0.38 | 0.38 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1810 | 1900 | 1610 | 3456 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 287 | 130 | 215 | 203 | 206 | 78 | 165 | 888 | 138 | 46 | 1291 | 463 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1810 | 1900 | 1610 | 1728 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 15.8 | 6.1 | 12.9 | 11.0 | 10.6 | 4.4 | 4.7 | 13.1 | 5.9 | 2.6 | 21.6 | 26.4 |
| Cycle Q Clear(g_c), s | 15.8 | 6.1 | 12.9 | 11.0 | 10.6 | 4.4 | 4.7 | 13.1 | 5.9 | 2.6 | 21.6 | 26.4 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 337 | 357 | 302 | 249 | 264 | 223 | 270 | 1979 | 614 | 101 | 1908 | 592 |
| V/C Ratio(X) | 0.85 | 0.36 | 0.71 | 0.82 | 0.78 | 0.35 | 0.61 | 0.45 | 0.22 | 0.45 | 0.68 | 0.78 |
| Avail Cap(c_a), veh/h | 469 | 443 | 375 | 393 | 362 | 307 | 276 | 1979 | 614 | 152 | 1949 | 605 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 39.7 | 35.7 | 38.4 | 42.5 | 42.2 | 39.5 | 45.2 | 23.0 | 20.8 | 46.2 | 26.4 | 27.9 |
| Incr Delay (d2), s/veh | 16.7 | 1.7 | 9.0 | 16.4 | 14.0 | 2.6 | 2.7 | 0.5 | 0.6 | 1.2 | 1.6 | 8.8 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 8.2 | 2.9 | 5.6 | 6.0 | 6.0 | 1.9 | 2.1 | 5.2 | 2.2 | 1.2 | 8.7 | 10.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 56.4 | 37.4 | 47.4 | 58.8 | 56.1 | 42.1 | 47.9 | 23.5 | 21.4 | 47.4 | 28.0 | 36.7 |
| LnGrp LOS | E | D | D | E | E | D | D | C | C | D | C | D |
| Approach Vol, veh/h | | 632 | | | 487 | | | 1191 | | | 1800 | |
| Approach Delay, s/veh | | 49.4 | | | 55.0 | | | 26.7 | | | 30.8 | |
| Approach LOS | | D | | | E | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.2 | 43.9 | 24.5 | 19.8 | 12.1 | 45.0 | 19.2 | 25.0 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 5.3 | 5.7 | 6.3 | 5.7 | 5.3 | 5.7 |
| Max Green Setting (Gmax), s | 8.1 | 39.0 | 26.7 | 19.3 | 8.7 | 37.3 | 22.0 | 24.0 |
| Max Q Clear Time (g_c+I1), s | 6.7 | 28.4 | 17.8 | 12.6 | 4.6 | 15.1 | 13.0 | 14.9 |
| Green Ext Time (p_c), s | 0.0 | 9.8 | 1.4 | 1.4 | 0.0 | 13.8 | 0.9 | 2.0 |

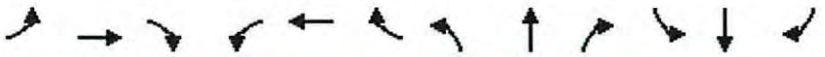
| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 35.3 |
| HCM 7th LOS | D |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Volume (veh/h) | 0 | 312 | 60 | 45 | 964 | 7 | 70 | 56 | 36 | 36 | 47 | 1 |
| Future Volume (veh/h) | 0 | 312 | 60 | 45 | 964 | 7 | 70 | 56 | 36 | 36 | 47 | 1 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 0 | 339 | 65 | 49 | 1048 | 8 | 76 | 61 | 39 | 39 | 51 | 1 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 0 | 1040 | 199 | 100 | 1226 | 9 | 183 | 101 | 54 | 172 | 183 | 3 |
| Arrive On Green | 0.00 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Sat Flow, veh/h | 0 | 1513 | 290 | 45 | 1783 | 13 | 602 | 686 | 367 | 527 | 1235 | 20 |
| Grp Volume(v), veh/h | 0 | 0 | 404 | 1105 | 0 | 0 | 176 | 0 | 0 | 91 | 0 | 0 |
| Grp Sat Flow(s),veh/h/ln | 0 | 0 | 1803 | 1842 | 0 | 0 | 1654 | 0 | 0 | 1782 | 0 | 0 |
| Q Serve(g_s), s | 0.0 | 0.0 | 4.9 | 8.7 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 0.0 | 0.0 | 4.9 | 25.1 | 0.0 | 0.0 | 5.4 | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 |
| Prop In Lane | 0.00 | | 0.16 | 0.04 | | 0.01 | 0.43 | | 0.22 | 0.43 | | 0.01 |
| Lane Grp Cap(c), veh/h | 0 | 0 | 1240 | 1335 | 0 | 0 | 339 | 0 | 0 | 358 | 0 | 0 |
| V/C Ratio(X) | 0.00 | 0.00 | 0.33 | 0.83 | 0.00 | 0.00 | 0.52 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h | 0 | 0 | 1734 | 1831 | 0 | 0 | 640 | 0 | 0 | 662 | 0 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh | 0.0 | 0.0 | 3.4 | 6.5 | 0.0 | 0.0 | 22.0 | 0.0 | 0.0 | 20.8 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 0.0 | 0.0 | 0.2 | 2.4 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.0 | 0.0 | 0.8 | 4.7 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 0.0 | 0.0 | 3.6 | 8.9 | 0.0 | 0.0 | 23.3 | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 |
| LnGrp LOS | | | A | A | | | C | | | C | | |
| Approach Vol, veh/h | | 404 | | | 1105 | | | 176 | | | 91 | |
| Approach Delay, s/veh | | 3.6 | | | 8.9 | | | 23.3 | | | 21.2 | |
| Approach LOS | | A | | | A | | | C | | | C | |

| Timer - Assigned Phs | 2 | 4 | 6 | 8 |
|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.6 | 42.0 | 12.6 | 42.0 |
| Change Period (Y+Rc), s | 4.5 | 4.5 | 4.5 | 4.5 |
| Max Green Setting (Gmax), s | 18.5 | 52.5 | 18.5 | 52.5 |
| Max Q Clear Time (g_c+I1), s | 7.4 | 6.9 | 4.3 | 27.1 |
| Green Ext Time (p_c), s | 0.7 | 2.6 | 0.3 | 10.5 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 9.7 |
| HCM 7th LOS | A |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 16 | 259 | 181 | 63 | 525 | 279 | 187 | 317 | 35 | 250 | 544 | 24 |
| Future Volume (veh/h) | 16 | 259 | 181 | 63 | 525 | 279 | 187 | 317 | 35 | 250 | 544 | 24 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1885 | 1885 | 1885 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 16 | 267 | 187 | 65 | 541 | 288 | 193 | 327 | 36 | 258 | 561 | 25 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 153 | 641 | 543 | 322 | 651 | 552 | 335 | 640 | 542 | 524 | 655 | 29 |
| Arrive On Green | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.10 | 0.34 | 0.34 | 0.12 | 0.37 | 0.37 |
| Sat Flow, veh/h | 656 | 1856 | 1572 | 944 | 1885 | 1598 | 1767 | 1856 | 1572 | 1767 | 1763 | 79 |
| Grp Volume(v), veh/h | 16 | 267 | 187 | 65 | 541 | 288 | 193 | 327 | 36 | 258 | 0 | 586 |
| Grp Sat Flow(s),veh/h/ln | 656 | 1856 | 1572 | 944 | 1885 | 1598 | 1767 | 1856 | 1572 | 1767 | 0 | 1841 |
| Q Serve(g_s), s | 1.7 | 8.0 | 6.4 | 4.1 | 19.1 | 10.4 | 5.0 | 10.2 | 1.1 | 6.6 | 0.0 | 21.2 |
| Cycle Q Clear(g_c), s | 20.7 | 8.0 | 6.4 | 12.1 | 19.1 | 10.4 | 5.0 | 10.2 | 1.1 | 6.6 | 0.0 | 21.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.04 |
| Lane Grp Cap(c), veh/h | 153 | 641 | 543 | 322 | 651 | 552 | 335 | 640 | 542 | 524 | 0 | 684 |
| V/C Ratio(X) | 0.10 | 0.42 | 0.34 | 0.20 | 0.83 | 0.52 | 0.58 | 0.51 | 0.07 | 0.49 | 0.00 | 0.86 |
| Avail Cap(c_a), veh/h | 248 | 909 | 771 | 458 | 924 | 783 | 425 | 920 | 779 | 675 | 0 | 1025 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 31.3 | 18.1 | 17.6 | 22.7 | 21.8 | 18.9 | 16.0 | 18.9 | 15.9 | 12.9 | 0.0 | 21.0 |
| Incr Delay (d2), s/veh | 0.3 | 0.4 | 0.4 | 0.3 | 4.5 | 0.8 | 1.6 | 0.6 | 0.1 | 0.7 | 0.0 | 4.8 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 3.1 | 2.1 | 0.9 | 8.1 | 3.5 | 1.9 | 4.2 | 0.4 | 2.4 | 0.0 | 9.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 31.6 | 18.6 | 18.0 | 23.0 | 26.3 | 19.7 | 17.6 | 19.5 | 16.0 | 13.7 | 0.0 | 25.8 |
| LnGrp LOS | C | B | B | C | C | B | B | B | B | B | | C |
| Approach Vol, veh/h | | 470 | | | 894 | | | 556 | | | 844 | |
| Approach Delay, s/veh | | 18.8 | | | 23.9 | | | 18.6 | | | 22.1 | |
| Approach LOS | | B | | | C | | | B | | | C | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.4 | 29.5 | | 29.5 | 11.5 | 31.4 | | 29.5 | | | | |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 15.1 | 35.9 | | 35.5 | 10.7 | 40.3 | | 35.5 | | | | |
| Max Q Clear Time (g_c+I1), s | 8.6 | 12.2 | | 22.7 | 7.0 | 23.2 | | 21.1 | | | | |
| Green Ext Time (p_c), s | 0.4 | 2.1 | | 1.8 | 0.2 | 3.7 | | 3.9 | | | | |

| Intersection Summary | | |
|---|---|---|
| HCM 7th Control Delay, s/veh | 21.4 | |
| HCM 7th LOS | C | |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 85 | 129 | 121 | 22 | 144 | 4 | 96 | 533 | 18 | 3 | 990 | 140 |
| Future Volume (veh/h) | 85 | 129 | 121 | 22 | 144 | 4 | 96 | 533 | 18 | 3 | 990 | 140 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 92 | 140 | 132 | 24 | 157 | 4 | 104 | 579 | 20 | 3 | 1076 | 152 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 118 | 172 | 162 | 48 | 281 | 7 | 154 | 1505 | 52 | 133 | 1305 | 184 |
| Arrive On Green | 0.07 | 0.19 | 0.19 | 0.03 | 0.15 | 0.15 | 0.09 | 0.43 | 0.43 | 0.08 | 0.42 | 0.42 |
| Sat Flow, veh/h | 1781 | 885 | 835 | 1781 | 1816 | 46 | 1767 | 3477 | 120 | 1767 | 3102 | 437 |
| Grp Volume(v), veh/h | 92 | 0 | 272 | 24 | 0 | 161 | 104 | 293 | 306 | 3 | 611 | 617 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 0 | 1720 | 1781 | 0 | 1862 | 1767 | 1763 | 1834 | 1767 | 1763 | 1777 |
| Q Serve(g_s), s | 3.4 | 0.0 | 10.1 | 0.9 | 0.0 | 5.3 | 3.8 | 7.5 | 7.5 | 0.1 | 20.4 | 20.5 |
| Cycle Q Clear(g_c), s | 3.4 | 0.0 | 10.1 | 0.9 | 0.0 | 5.3 | 3.8 | 7.5 | 7.5 | 0.1 | 20.4 | 20.5 |
| Prop In Lane | 1.00 | | 0.49 | 1.00 | | 0.02 | 1.00 | | 0.07 | 1.00 | | 0.25 |
| Lane Grp Cap(c), veh/h | 118 | 0 | 333 | 48 | 0 | 288 | 154 | 763 | 794 | 133 | 742 | 748 |
| V/C Ratio(X) | 0.78 | 0.00 | 0.82 | 0.50 | 0.00 | 0.56 | 0.67 | 0.38 | 0.38 | 0.02 | 0.82 | 0.83 |
| Avail Cap(c_a), veh/h | 148 | 0 | 477 | 137 | 0 | 505 | 173 | 889 | 925 | 133 | 849 | 856 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 30.5 | 0.0 | 25.6 | 31.9 | 0.0 | 26.0 | 29.4 | 12.8 | 12.8 | 28.4 | 17.0 | 17.1 |
| Incr Delay (d2), s/veh | 18.7 | 0.0 | 7.2 | 7.8 | 0.0 | 1.7 | 8.5 | 0.3 | 0.3 | 0.1 | 5.9 | 6.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.0 | 0.0 | 4.5 | 0.5 | 0.0 | 2.4 | 1.9 | 2.7 | 2.8 | 0.0 | 8.5 | 8.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 49.3 | 0.0 | 32.8 | 39.7 | 0.0 | 27.7 | 37.9 | 13.1 | 13.1 | 28.5 | 22.9 | 23.0 |
| LnGrp LOS | D | | C | D | | C | D | B | B | C | C | C |
| Approach Vol, veh/h | | 364 | | | 185 | | | 703 | | | 1231 | |
| Approach Delay, s/veh | | 37.0 | | | 29.2 | | | 16.8 | | | 23.0 | |
| Approach LOS | | D | | | C | | | B | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 9.5 | 33.3 | 6.3 | 17.4 | 10.3 | 32.5 | 8.9 | 14.8 |
| Change Period (Y+Rc), s | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| Max Green Setting (Gmax), s | 5.0 | 33.5 | 5.1 | 18.4 | 6.5 | 32.0 | 5.5 | 18.0 |
| Max Q Clear Time (g_c+I1), s | 12.1 | 9.5 | 2.9 | 12.1 | 5.8 | 22.5 | 5.4 | 7.3 |
| Green Ext Time (p_c), s | 0.0 | 3.8 | 0.0 | 0.8 | 0.0 | 5.5 | 0.0 | 0.6 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 23.8 |
| HCM 7th LOS | C |

HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project
6: Minnewawa Avenue & Shepherd Avenue Cumulative Year WP_AM Peak Hour MIT



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 150 | 564 | 508 | 106 | 503 | 322 | 260 | 397 | 51 | 297 | 994 | 221 |
| Future Volume (veh/h) | 150 | 564 | 508 | 106 | 503 | 322 | 260 | 397 | 51 | 297 | 994 | 221 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 432 | 55 | 323 | 1080 | 240 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 190 | 983 | 596 | 160 | 924 | 724 | 344 | 828 | 105 | 351 | 1272 | 568 |
| Arrive On Green | 0.11 | 0.28 | 0.28 | 0.09 | 0.26 | 0.26 | 0.10 | 0.26 | 0.26 | 0.20 | 0.36 | 0.36 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 3526 | 1572 | 3428 | 3148 | 399 | 1767 | 3526 | 1572 |
| Grp Volume(v), veh/h | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 241 | 246 | 323 | 1080 | 240 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1763 | 1572 | 1714 | 1763 | 1784 | 1767 | 1763 | 1572 |
| Q Serve(g_s), s | 10.7 | 18.0 | 33.0 | 7.5 | 16.0 | 18.3 | 9.6 | 13.8 | 14.0 | 21.2 | 33.4 | 13.6 |
| Cycle Q Clear(g_c), s | 10.7 | 18.0 | 33.0 | 7.5 | 16.0 | 18.3 | 9.6 | 13.8 | 14.0 | 21.2 | 33.4 | 13.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.22 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 190 | 983 | 596 | 160 | 924 | 724 | 344 | 463 | 469 | 351 | 1272 | 568 |
| V/C Ratio(X) | 0.86 | 0.62 | 0.93 | 0.72 | 0.59 | 0.48 | 0.82 | 0.52 | 0.52 | 0.92 | 0.85 | 0.42 |
| Avail Cap(c_a), veh/h | 224 | 983 | 596 | 179 | 924 | 724 | 550 | 536 | 543 | 433 | 1370 | 611 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 51.9 | 37.3 | 35.1 | 52.3 | 38.1 | 22.1 | 52.2 | 37.2 | 37.3 | 46.5 | 34.8 | 28.5 |
| Incr Delay (d2), s/veh | 21.5 | 1.5 | 20.8 | 9.0 | 1.3 | 0.8 | 2.5 | 1.0 | 1.0 | 20.3 | 5.2 | 0.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 5.7 | 7.6 | 17.6 | 3.6 | 6.8 | 6.4 | 4.1 | 5.9 | 6.0 | 11.2 | 15.0 | 5.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 73.4 | 38.7 | 56.0 | 61.4 | 39.5 | 23.0 | 54.7 | 38.2 | 38.3 | 66.8 | 40.1 | 29.2 |
| LnGrp LOS | E | D | E | E | D | C | D | D | D | E | D | C |
| Approach Vol, veh/h | | 1328 | | | 1012 | | | 770 | | | 1643 | |
| Approach Delay, s/veh | | 50.2 | | | 36.2 | | | 44.3 | | | 43.7 | |
| Approach LOS | | D | | | D | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 15.9 | 48.7 | 16.7 | 37.0 | 27.5 | 37.1 | 14.7 | 39.0 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 19.0 | 46.0 | 15.0 | 30.0 | 29.0 | 36.0 | 12.0 | 33.0 |
| Max Q Clear Time (g_c+I1), s | 11.6 | 35.4 | 12.7 | 20.3 | 23.2 | 16.0 | 9.5 | 35.0 |
| Green Ext Time (p_c), s | 0.3 | 7.3 | 0.0 | 4.7 | 0.3 | 2.7 | 0.0 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 44.0 |
| HCM 7th LOS | D |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Cumulative Year WP_PM Peak Hour MIT

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 22 | 259 | 237 | 526 | 255 | 259 | 215 | 889 | 670 | 252 | 655 | 42 |
| Future Volume (veh/h) | 22 | 259 | 237 | 526 | 255 | 259 | 215 | 889 | 670 | 252 | 655 | 42 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 24 | 282 | 258 | 572 | 277 | 282 | 234 | 966 | 728 | 274 | 712 | 46 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 67 | 332 | 281 | 558 | 540 | 457 | 398 | 1683 | 777 | 243 | 1244 | 386 |
| Arrive On Green | 0.04 | 0.18 | 0.18 | 0.16 | 0.28 | 0.28 | 0.22 | 0.33 | 0.33 | 0.13 | 0.24 | 0.24 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 3510 | 1900 | 1610 | 1795 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 24 | 282 | 258 | 572 | 277 | 282 | 234 | 966 | 728 | 274 | 712 | 46 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1755 | 1900 | 1610 | 1795 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 1.4 | 16.0 | 10.5 | 17.4 | 13.4 | 11.0 | 12.8 | 17.0 | 21.7 | 14.7 | 13.2 | 2.0 |
| Cycle Q Clear(g_c), s | 1.4 | 16.0 | 10.5 | 17.4 | 13.4 | 11.0 | 12.8 | 17.0 | 21.7 | 14.7 | 13.2 | 2.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 67 | 332 | 281 | 558 | 540 | 457 | 398 | 1683 | 777 | 243 | 1244 | 386 |
| V/C Ratio(X) | 0.36 | 0.85 | 0.92 | 1.02 | 0.51 | 0.62 | 0.59 | 0.57 | 0.94 | 1.13 | 0.57 | 0.12 |
| Avail Cap(c_a), veh/h | 130 | 402 | 340 | 558 | 544 | 461 | 398 | 1755 | 799 | 243 | 1863 | 578 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 51.3 | 43.6 | 15.9 | 46.0 | 32.8 | 14.9 | 38.1 | 30.5 | 9.0 | 47.4 | 36.6 | 21.2 |
| Incr Delay (d2), s/veh | 1.2 | 14.1 | 26.5 | 44.5 | 1.7 | 3.7 | 1.6 | 1.1 | 19.5 | 96.2 | 1.4 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.7 | 8.5 | 5.7 | 10.8 | 6.2 | 4.2 | 5.8 | 7.1 | 9.4 | 13.1 | 5.7 | 1.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 52.5 | 57.7 | 42.4 | 90.5 | 34.5 | 18.6 | 39.7 | 31.5 | 28.5 | 143.5 | 38.0 | 21.6 |
| LnGrp LOS | D | E | D | F | C | B | D | C | C | F | D | C |
| Approach Vol, veh/h | | 564 | | | 1131 | | | 1928 | | | 1032 | |
| Approach Delay, s/veh | | 50.5 | | | 58.8 | | | 31.4 | | | 65.3 | |
| Approach LOS | | D | | | E | | | C | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 29.5 | 31.9 | 10.3 | 37.6 | 20.0 | 41.5 | 22.0 | 25.9 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 12.7 | 39.3 | 8.0 | 31.3 | 14.7 | 37.3 | 17.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 14.8 | 15.2 | 3.4 | 15.4 | 16.7 | 23.7 | 19.4 | 18.0 |
| Green Ext Time (p_c), s | 0.0 | 11.0 | 0.0 | 4.6 | 0.0 | 12.1 | 0.0 | 1.4 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 47.9 |
| HCM 7th LOS | D |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Benymer Project

## 2: Willow Avenue & Perrin Avenue

Cumulative Year WP_PM Peak Hour MIT

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 449 | 255 | 333 | 246 | 210 | 107 | 273 | 1373 | 280 | 120 | 908 | 401 |
| Future Volume (veh/h) | 449 | 255 | 333 | 246 | 210 | 107 | 273 | 1373 | 280 | 120 | 908 | 401 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 473 | 268 | 351 | 259 | 221 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 498 | 467 | 395 | 293 | 251 | 213 | 345 | 1582 | 491 | 153 | 1564 | 486 |
| Arrive On Green | 0.28 | 0.25 | 0.25 | 0.16 | 0.13 | 0.13 | 0.10 | 0.31 | 0.31 | 0.08 | 0.30 | 0.30 |
| Sat Flow, veh/h | 1810 | 1900 | 1610 | 1810 | 1900 | 1610 | 3483 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 473 | 268 | 351 | 259 | 221 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1900 | 1610 | 1810 | 1900 | 1610 | 1742 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 29.4 | 14.2 | 24.1 | 16.0 | 13.1 | 7.5 | 9.3 | 31.0 | 18.0 | 7.8 | 18.1 | 28.4 |
| Cycle Q Clear(g_c), s | 29.4 | 14.2 | 24.1 | 16.0 | 13.1 | 7.5 | 9.3 | 31.0 | 18.0 | 7.8 | 18.1 | 28.4 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 498 | 467 | 395 | 293 | 251 | 213 | 345 | 1582 | 491 | 153 | 1564 | 486 |
| V/C Ratio(X) | 0.95 | 0.57 | 0.89 | 0.88 | 0.88 | 0.53 | 0.83 | 0.91 | 0.60 | 0.82 | 0.61 | 0.87 |
| Avail Cap(c_a), veh/h | 501 | 467 | 395 | 330 | 254 | 215 | 377 | 1586 | 492 | 153 | 1564 | 486 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 40.7 | 38.0 | 41.7 | 47.0 | 48.8 | 46.4 | 50.7 | 38.2 | 33.7 | 51.6 | 34.3 | 37.9 |
| Incr Delay (d2), s/veh | 28.8 | 3.4 | 22.6 | 25.9 | 30.1 | 5.7 | 12.5 | 9.3 | 4.3 | 27.6 | 1.4 | 17.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 16.6 | 6.9 | 11.8 | 9.3 | 8.3 | 3.3 | 4.6 | 14.2 | 7.3 | 4.7 | 7.8 | 13.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 69.6 | 41.3 | 64.3 | 72.9 | 78.9 | 52.1 | 63.1 | 47.5 | 38.0 | 79.2 | 35.7 | 55.5 |
| LnGrp LOS | E | D | E | E | E | D | E | D | D | E | D | E |
| Approach Vol, veh/h | | 1092 | | | 593 | | | 2027 | | | 1504 | |
| Approach Delay, s/veh | | 60.9 | | | 71.2 | | | 48.3 | | | 44.9 | |
| Approach LOS | | E | | | E | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 16.6 | 40.2 | 36.8 | 20.9 | 16.0 | 40.9 | 23.8 | 33.8 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 5.3 | 5.7 | 6.3 | 5.7 | 5.3 | 5.7 |
| Max Green Setting (Gmax), s | 12.4 | 33.6 | 31.7 | 15.3 | 9.7 | 35.3 | 20.9 | 26.1 |
| Max Q Clear Time (g_c+I1), s | 11.3 | 30.4 | 31.4 | 15.1 | 9.8 | 33.0 | 18.0 | 26.1 |
| Green Ext Time (p_c), s | 0.1 | 2.9 | 0.1 | 0.1 | 0.0 | 2.2 | 0.5 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 52.6 |
| HCM 7th LOS | D |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Volume (veh/h) | 1 | 783 | 85 | 59 | 622 | 36 | 101 | 74 | 59 | 10 | 75 | 1 |
| Future Volume (veh/h) | 1 | 783 | 85 | 59 | 622 | 36 | 101 | 74 | 59 | 10 | 75 | 1 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 1 | 833 | 90 | 63 | 662 | 38 | 107 | 79 | 63 | 11 | 80 | 1 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 80 | 986 | 106 | 135 | 943 | 52 | 233 | 128 | 84 | 108 | 361 | 4 |
| Arrive On Green | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 |
| Sat Flow, veh/h | 0 | 1659 | 179 | 82 | 1585 | 87 | 580 | 619 | 406 | 94 | 1748 | 20 |
| Grp Volume(v), veh/h | 924 | 0 | 0 | 763 | 0 | 0 | 249 | 0 | 0 | 92 | 0 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1838 | 0 | 0 | 1755 | 0 | 0 | 1605 | 0 | 0 | 1863 | 0 | 0 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 18.5 | 0.0 | 0.0 | 12.8 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 |
| Prop In Lane | 0.00 | | 0.10 | 0.08 | | 0.05 | 0.43 | | 0.25 | 0.12 | | 0.01 |
| Lane Grp Cap(c), veh/h | 1172 | 0 | 0 | 1130 | 0 | 0 | 445 | 0 | 0 | 474 | 0 | 0 |
| V/C Ratio(X) | 0.79 | 0.00 | 0.00 | 0.68 | 0.00 | 0.00 | 0.56 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h | 1601 | 0 | 0 | 1506 | 0 | 0 | 758 | 0 | 0 | 835 | 0 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh | 7.5 | 0.0 | 0.0 | 6.3 | 0.0 | 0.0 | 16.7 | 0.0 | 0.0 | 15.0 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 1.9 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 8.9 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 2.2 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 9.4 | 0.0 | 0.0 | 7.0 | 0.0 | 0.0 | 17.8 | 0.0 | 0.0 | 15.2 | 0.0 | 0.0 |
| LnGrp LOS | A | | | A | | | B | | | B | | |
| Approach Vol, veh/h | | 924 | | | 763 | | | 249 | | | 92 | |
| Approach Delay, s/veh | | 9.4 | | | 7.0 | | | 17.8 | | | 15.2 | |
| Approach LOS | | A | | | A | | | B | | | B | |

| Timer - Assigned Phs | 2 | 4 | 6 | 8 |
|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.9 | 31.4 | 13.9 | 31.4 |
| Change Period (Y+Rc), s | 4.5 | 4.5 | 4.5 | 4.5 |
| Max Green Setting (Gmax), s | 18.5 | 37.5 | 18.5 | 37.5 |
| Max Q Clear Time (g_c+I1), s | 8.5 | 20.5 | 3.8 | 14.8 |
| Green Ext Time (p_c), s | 1.0 | 6.4 | 0.3 | 6.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 9.8 |
| HCM 7th LOS | A |

# HCM 7th Signalized Intersection Summary
## 4: Minnewawa Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Cumulative Year WP_PM Peak Hour MIT



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 17 | 497 | 180 | 35 | 505 | 223 | 260 | 628 | 64 | 226 | 310 | 15 |
| Future Volume (veh/h) | 17 | 497 | 180 | 35 | 505 | 223 | 260 | 628 | 64 | 226 | 310 | 15 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 18 | 534 | 194 | 38 | 543 | 240 | 280 | 675 | 69 | 243 | 333 | 16 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 114 | 631 | 535 | 117 | 641 | 543 | 580 | 727 | 616 | 272 | 382 | 18 |
| Arrive On Green | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.33 | 0.39 | 0.39 | 0.15 | 0.22 | 0.22 |
| Sat Flow, veh/h | 691 | 1870 | 1585 | 738 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1756 | 84 |
| Grp Volume(v), veh/h | 18 | 534 | 194 | 38 | 543 | 240 | 280 | 675 | 69 | 243 | 0 | 349 |
| Grp Sat Flow(s),veh/h/ln | 691 | 1870 | 1585 | 738 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 0 | 1840 |
| Q Serve(g_s), s | 2.8 | 29.8 | 10.4 | 5.7 | 29.9 | 13.1 | 14.2 | 38.9 | 3.1 | 15.2 | 0.0 | 20.6 |
| Cycle Q Clear(g_c), s | 32.7 | 29.8 | 10.4 | 35.5 | 29.9 | 13.1 | 14.2 | 38.9 | 3.1 | 15.2 | 0.0 | 20.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.05 |
| Lane Grp Cap(c), veh/h | 114 | 631 | 535 | 117 | 641 | 543 | 580 | 727 | 616 | 272 | 0 | 400 |
| V/C Ratio(X) | 0.16 | 0.85 | 0.36 | 0.32 | 0.85 | 0.44 | 0.48 | 0.93 | 0.11 | 0.89 | 0.00 | 0.87 |
| Avail Cap(c_a), veh/h | 117 | 640 | 542 | 121 | 650 | 551 | 580 | 806 | 683 | 306 | 0 | 629 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 49.8 | 34.6 | 28.2 | 51.1 | 34.6 | 29.1 | 30.4 | 32.9 | 22.0 | 46.7 | 0.0 | 42.5 |
| Incr Delay (d2), s/veh | 0.6 | 10.2 | 0.4 | 1.6 | 10.1 | 0.6 | 0.6 | 16.0 | 0.1 | 24.6 | 0.0 | 8.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.5 | 14.8 | 3.9 | 1.1 | 14.9 | 4.9 | 6.2 | 20.4 | 1.2 | 8.5 | 0.0 | 10.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 50.4 | 44.8 | 28.6 | 52.6 | 44.7 | 29.6 | 31.0 | 48.9 | 22.1 | 71.4 | 0.0 | 50.6 |
| LnGrp LOS | D | D | C | D | D | C | C | D | C | E | | D |
| Approach Vol, veh/h | | 746 | | | 821 | | | 1024 | | | 592 | |
| Approach Delay, s/veh | | 40.7 | | | 40.7 | | | 42.2 | | | 59.1 | |
| Approach LOS | | D | | | D | | | D | | | E | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 31.8 | 48.3 | | 42.5 | 41.1 | 29.0 | | 42.5 |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 |
| Max Green Setting (Gmax), s | 19.5 | 48.5 | | 38.5 | 29.5 | 38.5 | | 38.5 |
| Max Q Clear Time (g_c+I1), s | 17.2 | 40.9 | | 34.7 | 16.2 | 22.6 | | 37.5 |
| Green Ext Time (p_c), s | 0.2 | 2.9 | | 1.5 | 0.7 | 1.9 | | 0.5 |

| Intersection Summary | | |
|---|---|---|
| HCM 7th Control Delay, s/veh | 44.6 | |
| HCM 7th LOS | D | |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Benymer Project

## 5: Minnewawa Avenue & Perrin Avenue

Cumulative Year WP_PM Peak Hour MIT



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 129 | 179 | 149 | 23 | 177 | 5 | 161 | 1100 | 18 | 4 | 616 | 111 |
| Future Volume (veh/h) | 129 | 179 | 149 | 23 | 177 | 5 | 161 | 1100 | 18 | 4 | 616 | 111 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 136 | 188 | 157 | 24 | 186 | 5 | 169 | 1158 | 19 | 4 | 648 | 117 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 174 | 231 | 193 | 49 | 317 | 9 | 215 | 1491 | 24 | 10 | 899 | 162 |
| Arrive On Green | 0.10 | 0.24 | 0.24 | 0.03 | 0.17 | 0.17 | 0.12 | 0.42 | 0.42 | 0.01 | 0.30 | 0.30 |
| Sat Flow, veh/h | 1781 | 942 | 787 | 1781 | 1813 | 49 | 1781 | 3578 | 59 | 1767 | 2984 | 538 |
| Grp Volume(v), veh/h | 136 | 0 | 345 | 24 | 0 | 191 | 169 | 575 | 602 | 4 | 382 | 383 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 0 | 1729 | 1781 | 0 | 1862 | 1781 | 1777 | 1860 | 1767 | 1763 | 1759 |
| Q Serve(g_s), s | 4.4 | 0.0 | 11.1 | 0.8 | 0.0 | 5.6 | 5.4 | 16.4 | 16.5 | 0.1 | 11.4 | 11.4 |
| Cycle Q Clear(g_c), s | 4.4 | 0.0 | 11.1 | 0.8 | 0.0 | 5.6 | 5.4 | 16.4 | 16.5 | 0.1 | 11.4 | 11.4 |
| Prop In Lane | 1.00 | | 0.46 | 1.00 | | 0.03 | 1.00 | | 0.03 | 1.00 | | 0.31 |
| Lane Grp Cap(c), veh/h | 174 | 0 | 423 | 49 | 0 | 325 | 215 | 740 | 775 | 10 | 531 | 530 |
| V/C Ratio(X) | 0.78 | 0.00 | 0.81 | 0.49 | 0.00 | 0.59 | 0.79 | 0.78 | 0.78 | 0.42 | 0.72 | 0.72 |
| Avail Cap(c_a), veh/h | 257 | 0 | 628 | 154 | 0 | 569 | 348 | 920 | 962 | 150 | 718 | 716 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 26.0 | 0.0 | 21.0 | 28.2 | 0.0 | 22.4 | 25.2 | 14.8 | 14.8 | 29.2 | 18.4 | 18.4 |
| Incr Delay (d2), s/veh | 8.9 | 0.0 | 5.2 | 7.3 | 0.0 | 1.7 | 6.2 | 3.4 | 3.2 | 27.0 | 2.3 | 2.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.2 | 0.0 | 4.7 | 0.4 | 0.0 | 2.4 | 2.5 | 6.3 | 6.6 | 0.1 | 4.5 | 4.5 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 34.8 | 0.0 | 26.2 | 35.6 | 0.0 | 24.1 | 31.4 | 18.2 | 18.1 | 56.2 | 20.7 | 20.7 |
| LnGrp LOS | C | | C | D | | C | C | B | B | E | C | C |
| Approach Vol, veh/h | | 481 | | | 215 | | | 1346 | | | 769 | |
| Approach Delay, s/veh | | 28.6 | | | 25.3 | | | 19.8 | | | 20.9 | |
| Approach LOS | | C | | | C | | | B | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 4.8 | 29.1 | 6.1 | 18.9 | 11.6 | 22.3 | 10.3 | 14.8 |
| Change Period (Y+Rc), s | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| Max Green Setting (Gmax), s | 5.3 | 30.5 | 5.1 | 21.4 | 11.5 | 24.0 | 8.5 | 18.0 |
| Max Q Clear Time (g_c+I1), s | 2.1 | 18.5 | 2.8 | 13.1 | 7.4 | 13.4 | 6.4 | 7.6 |
| Green Ext Time (p_c), s | 0.0 | 6.1 | 0.0 | 1.3 | 0.2 | 3.6 | 0.1 | 0.7 |

| Intersection Summary | | |
|---|---|---|
| HCM 7th Control Delay, s/veh | 22.0 | |
| HCM 7th LOS | C | |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 322 | 511 | 441 | 48 | 383 | 329 | 473 | 1097 | 90 | 199 | 692 | 230 |
| Future Volume (veh/h) | 322 | 511 | 441 | 48 | 383 | 329 | 473 | 1097 | 90 | 199 | 692 | 230 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 1155 | 95 | 209 | 728 | 242 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 348 | 797 | 709 | 215 | 593 | 466 | 758 | 1167 | 96 | 222 | 906 | 404 |
| Arrive On Green | 0.19 | 0.22 | 0.22 | 0.12 | 0.16 | 0.16 | 0.22 | 0.35 | 0.35 | 0.13 | 0.26 | 0.26 |
| Sat Flow, veh/h | 1810 | 3610 | 1610 | 1810 | 3610 | 1610 | 3456 | 3325 | 273 | 1767 | 3526 | 1572 |
| Grp Volume(v), veh/h | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 617 | 633 | 209 | 728 | 242 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1805 | 1610 | 1810 | 1805 | 1610 | 1728 | 1777 | 1821 | 1767 | 1763 | 1572 |
| Q Serve(g_s), s | 22.3 | 16.3 | 0.9 | 3.1 | 12.6 | 7.4 | 15.7 | 41.3 | 41.4 | 14.0 | 23.1 | 10.2 |
| Cycle Q Clear(g_c), s | 22.3 | 16.3 | 0.9 | 3.1 | 12.6 | 7.4 | 15.7 | 41.3 | 41.4 | 14.0 | 23.1 | 10.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.15 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 348 | 797 | 709 | 215 | 593 | 466 | 758 | 624 | 639 | 222 | 906 | 404 |
| V/C Ratio(X) | 0.97 | 0.68 | 0.65 | 0.24 | 0.68 | 0.74 | 0.66 | 0.99 | 0.99 | 0.94 | 0.80 | 0.60 |
| Avail Cap(c_a), veh/h | 348 | 1267 | 918 | 215 | 905 | 606 | 758 | 624 | 639 | 222 | 1061 | 473 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 48.0 | 42.7 | 26.3 | 47.8 | 47.0 | 16.1 | 42.6 | 38.6 | 38.6 | 51.9 | 41.6 | 15.4 |
| Incr Delay (d2), s/veh | 41.2 | 1.5 | 1.6 | 0.2 | 2.3 | 4.8 | 1.7 | 33.1 | 33.2 | 44.3 | 4.4 | 2.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 8.6 | 7.2 | 10.0 | 1.3 | 5.6 | 4.8 | 6.7 | 22.7 | 23.4 | 8.9 | 10.6 | 3.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 89.2 | 44.2 | 28.0 | 48.0 | 49.3 | 20.9 | 44.3 | 71.7 | 71.8 | 96.2 | 46.0 | 17.6 |
| LnGrp LOS | F | D | C | D | D | C | D | E | E | F | D | B |
| Approach Vol, veh/h | | 1341 | | | 800 | | | 1748 | | | 1179 | |
| Approach Delay, s/veh | | 50.0 | | | 36.9 | | | 63.9 | | | 49.1 | |
| Approach LOS | | D | | | D | | | E | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 30.2 | 36.8 | 27.0 | 25.7 | 19.0 | 48.0 | 20.2 | 32.4 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 6.0 | * 6 |
| Max Green Setting (Gmax), s | 21.3 | 36.0 | 23.0 | 30.0 | 15.0 | 42.0 | 11.0 | * 42 |
| Max Q Clear Time (g_c+I1), s | 17.7 | 25.1 | 24.3 | 14.6 | 16.0 | 43.4 | 5.1 | 18.3 |
| Green Ext Time (p_c), s | 0.4 | 5.6 | 0.0 | 5.1 | 0.0 | 0.0 | 0.0 | 8.1 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 52.5 |
| HCM 7th LOS | D |

**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

# APPENDIX F

# QUEUING ANALYSIS WORKSHEETS

# Queues
## 1: Willow Avenue & Behymer Avenue



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 82 | 134 | 188 | 93 | 289 | 106 | 714 | 53 | 70 | 630 | 56 |
| v/c Ratio | 0.36 | 0.28 | 0.35 | 0.37 | 0.62 | 0.43 | 0.48 | 0.09 | 0.32 | 0.45 | 0.10 |
| Control Delay (s/veh) | 42.5 | 30.1 | 6.9 | 41.2 | 32.6 | 42.8 | 26.7 | 0.3 | 42.3 | 27.6 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 42.5 | 30.1 | 6.9 | 41.2 | 32.6 | 42.8 | 26.7 | 0.3 | 42.3 | 27.6 | 0.4 |
| Queue Length 50th (ft) | 41 | 57 | 0 | 46 | 117 | 53 | 114 | 0 | 35 | 102 | 0 |
| Queue Length 95th (ft) | 96 | 124 | 54 | 103 | 235 | 115 | 177 | 0 | 85 | 163 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 348 | 625 | 655 | 393 | 609 | 375 | 2860 | 952 | 371 | 2833 | 944 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.24 | 0.21 | 0.29 | 0.24 | 0.47 | 0.28 | 0.25 | 0.06 | 0.19 | 0.22 | 0.06 |

Intersection Summary

| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 177 | 172 | 91 | 720 | 822 | 122 |
| v/c Ratio | 0.42 | 0.34 | 0.18 | 0.25 | 0.43 | 0.18 |
| Control Delay (s/veh) | 24.3 | 6.0 | 27.0 | 6.6 | 15.3 | 4.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 24.3 | 6.0 | 27.0 | 6.6 | 15.3 | 4.2 |
| Queue Length 50th (ft) | 59 | 0 | 16 | 39 | 82 | 0 |
| Queue Length 95th (ft) | 115 | 42 | 39 | 69 | 128 | 30 |
| Internal Link Dist (ft) | 1383 | | | 1272 | 2582 | |
| Turn Bay Length (ft) | 230 | 230 | 235 | | | 130 |
| Base Capacity (vph) | 796 | 807 | 857 | 3247 | 2689 | 894 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.22 | 0.21 | 0.11 | 0.22 | 0.31 | 0.14 |

Intersection Summary

Queues
De Young Properties Peach and Behymer Project
6: Minnewawa Avenue & Shepherd Avenue
Existing Year WP_AM Peak Hour



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 37 | 346 | 139 | 15 | 288 | 161 | 130 | 176 | 20 | 132 | 240 | 37 |
| v/c Ratio | 0.13 | 0.29 | 0.23 | 0.05 | 0.59 | 0.33 | 0.41 | 0.42 | 0.05 | 0.42 | 0.57 | 0.09 |
| Control Delay (s/veh) | 37.5 | 20.3 | 10.0 | 37.9 | 32.1 | 14.7 | 38.1 | 31.2 | 0.2 | 38.0 | 34.2 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 37.5 | 20.3 | 10.0 | 37.9 | 32.1 | 14.7 | 38.1 | 31.2 | 0.2 | 38.0 | 34.2 | 0.4 |
| Queue Length 50th (ft) | 16 | 53 | 13 | 7 | 125 | 27 | 60 | 76 | 0 | 62 | 107 | 0 |
| Queue Length 95th (ft) | 55 | 136 | 71 | 29 | 247 | 88 | 139 | 162 | 0 | 140 | 217 | 0 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 230 | | 45 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 554 | 1834 | 865 | 554 | 944 | 849 | 543 | 926 | 833 | 538 | 917 | 825 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.07 | 0.19 | 0.16 | 0.03 | 0.31 | 0.19 | 0.24 | 0.19 | 0.02 | 0.25 | 0.26 | 0.04 |

Intersection Summary

# Queues
## 1: Willow Avenue & Behymer Avenue



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 24 | 127 | 141 | 109 | 308 | 138 | 850 | 140 | 120 | 651 | 47 |
| v/c Ratio | 0.13 | 0.38 | 0.35 | 0.48 | 0.62 | 0.57 | 0.52 | 0.23 | 0.51 | 0.40 | 0.08 |
| Control Delay (s/veh) | 41.9 | 36.1 | 9.0 | 44.1 | 31.6 | 46.0 | 25.2 | 5.6 | 44.8 | 24.2 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 41.9 | 36.1 | 9.0 | 44.1 | 31.6 | 46.0 | 25.2 | 5.6 | 44.8 | 24.2 | 0.3 |
| Queue Length 50th (ft) | 11 | 57 | 0 | 50 | 105 | 64 | 120 | 0 | 55 | 89 | 0 |
| Queue Length 95th (ft) | 39 | 124 | 45 | 114 | 247 | 140 | 195 | 36 | 123 | 147 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 313 | 562 | 576 | 357 | 566 | 337 | 2593 | 877 | 341 | 2619 | 885 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.08 | 0.23 | 0.24 | 0.31 | 0.54 | 0.41 | 0.33 | 0.16 | 0.35 | 0.25 | 0.05 |

Intersection Summary

# Queues
## 2: Willow Avenue & Perrin Avenue





| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 143 | 203 | 209 | 946 | 734 | 107 |
| v/c Ratio | 0.39 | 0.41 | 0.41 | 0.31 | 0.42 | 0.17 |
| Control Delay (s/veh) | 24.8 | 6.7 | 27.5 | 6.5 | 16.3 | 4.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 24.8 | 6.7 | 27.5 | 6.5 | 16.3 | 4.6 |
| Queue Length 50th (ft) | 45 | 0 | 36 | 52 | 70 | 0 |
| Queue Length 95th (ft) | 98 | 47 | 72 | 88 | 119 | 30 |
| Internal Link Dist (ft) | 1383 | | | 1272 | 2582 | |
| Turn Bay Length (ft) | 230 | 230 | 235 | | | 130 |
| Base Capacity (vph) | 721 | 765 | 789 | 3050 | 2475 | 825 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.20 | 0.27 | 0.26 | 0.31 | 0.30 | 0.13 |

Intersection Summary

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 46 | 311 | 117 | 6 | 253 | 129 | 136 | 248 | 25 | 72 | 198 | 38 |
| v/c Ratio | 0.15 | 0.27 | 0.20 | 0.02 | 0.54 | 0.28 | 0.42 | 0.45 | 0.05 | 0.24 | 0.49 | 0.09 |
| Control Delay (s/veh) | 34.4 | 19.6 | 8.5 | 34.3 | 30.5 | 11.9 | 35.4 | 28.3 | 0.2 | 34.9 | 31.8 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 34.4 | 19.6 | 8.5 | 34.3 | 30.5 | 11.9 | 35.4 | 28.3 | 0.2 | 34.9 | 31.8 | 0.4 |
| Queue Length 50th (ft) | 19 | 45 | 7 | 2 | 105 | 14 | 59 | 105 | 0 | 30 | 82 | 0 |
| Queue Length 95th (ft) | 60 | 117 | 53 | 15 | 206 | 62 | 132 | 197 | 0 | 83 | 170 | 0 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 230 | | 45 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 574 | 1876 | 883 | 574 | 978 | 876 | 563 | 959 | 860 | 557 | 950 | 852 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.08 | 0.17 | 0.13 | 0.01 | 0.26 | 0.15 | 0.24 | 0.26 | 0.03 | 0.13 | 0.21 | 0.04 |

Intersection Summary

# Queues
## 1: Willow Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Near Term NP_AM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 84 | 159 | 228 | 160 | 366 | 154 | 752 | 100 | 91 | 703 | 57 |
| v/c Ratio | 0.44 | 0.41 | 0.45 | 0.65 | 0.75 | 0.64 | 0.46 | 0.16 | 0.46 | 0.54 | 0.11 |
| Control Delay (s/veh) | 48.0 | 35.3 | 7.7 | 51.5 | 40.5 | 51.8 | 27.5 | 2.5 | 48.3 | 31.1 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 48.0 | 35.3 | 7.7 | 51.5 | 40.5 | 51.8 | 27.5 | 2.5 | 48.3 | 31.1 | 0.4 |
| Queue Length 50th (ft) | 47 | 78 | 0 | 89 | 176 | 86 | 132 | 0 | 51 | 130 | 0 |
| Queue Length 95th (ft) | 100 | 152 | 61 | 169 | #373 | 165 | 193 | 17 | 106 | 183 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 281 | 504 | 594 | 317 | 500 | 302 | 2324 | 800 | 299 | 2302 | 794 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.30 | 0.32 | 0.38 | 0.50 | 0.73 | 0.51 | 0.32 | 0.13 | 0.30 | 0.31 | 0.07 |

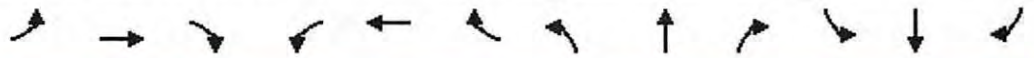
Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 207 | 72 | 197 | 107 | 98 | 32 | 125 | 782 | 81 | 24 | 916 | 188 |
| v/c Ratio | 0.55 | 0.19 | 0.41 | 0.38 | 0.35 | 0.09 | 0.37 | 0.35 | 0.11 | 0.14 | 0.57 | 0.31 |
| Control Delay (s/veh) | 39.6 | 33.8 | 8.1 | 42.0 | 42.1 | 0.5 | 45.8 | 20.4 | 1.6 | 46.2 | 28.0 | 7.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 39.6 | 33.8 | 8.1 | 42.0 | 42.1 | 0.5 | 45.8 | 20.4 | 1.6 | 46.2 | 28.0 | 7.9 |
| Queue Length 50th (ft) | 104 | 34 | 0 | 54 | 50 | 0 | 34 | 97 | 0 | 13 | 158 | 11 |
| Queue Length 95th (ft) | 207 | 83 | 59 | 125 | 117 | 0 | 77 | 199 | 11 | 44 | 243 | 65 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 230 | | 230 | 100 | | 100 | 235 | | 145 | 250 | | 130 |
| Base Capacity (vph) | 568 | 542 | 600 | 477 | 441 | 471 | 359 | 2403 | 814 | 168 | 2259 | 792 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.36 | 0.13 | 0.33 | 0.22 | 0.22 | 0.07 | 0.35 | 0.33 | 0.10 | 0.14 | 0.41 | 0.24 |

Intersection Summary

Queues
De Young Properties Peach and Benyamel Project
6: Minnewawa Avenue & Shepherd Avenue
Near Term NP_AM Peak Hour



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 112 | 436 | 288 | 47 | 368 | 227 | 217 | 335 | 39 | 203 | 589 | 155 |
| v/c Ratio | 0.56 | 0.42 | 0.51 | 0.27 | 0.80 | 0.50 | 0.80 | 0.59 | 0.07 | 0.77 | 1.05 | 0.29 |
| Control Delay (s/veh) | 60.6 | 34.5 | 20.7 | 56.0 | 54.8 | 25.5 | 69.4 | 40.7 | 0.3 | 67.7 | 93.1 | 16.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 60.6 | 34.5 | 20.7 | 56.0 | 54.8 | 25.5 | 69.4 | 40.7 | 0.3 | 67.7 | 93.1 | 16.5 |
| Queue Length 50th (ft) | 81 | 143 | 91 | 33 | 254 | 83 | 156 | 213 | 0 | 146 | ~496 | 35 |
| Queue Length 95th (ft) | 148 | 193 | 179 | 77 | 392 | 170 | #282 | 353 | 0 | #249 | #807 | 99 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 235 | | 50 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 328 | 1117 | 595 | 328 | 559 | 539 | 328 | 568 | 547 | 328 | 559 | 539 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.34 | 0.39 | 0.48 | 0.14 | 0.66 | 0.42 | 0.66 | 0.59 | 0.07 | 0.62 | 1.05 | 0.29 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

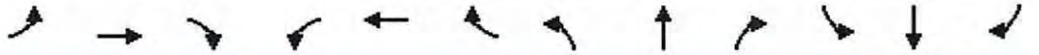
Queues
1: Willow Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Near Term NP_PM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 23 | 158 | 196 | 193 | 354 | 189 | 854 | 221 | 145 | 657 | 43 |
| v/c Ratio | 0.14 | 0.54 | 0.48 | 0.71 | 0.63 | 0.71 | 0.54 | 0.36 | 0.62 | 0.44 | 0.08 |
| Control Delay (s/veh) | 44.7 | 43.4 | 9.7 | 53.3 | 32.6 | 54.0 | 27.8 | 8.9 | 51.0 | 27.4 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 44.7 | 43.4 | 9.7 | 53.3 | 32.6 | 54.0 | 27.8 | 8.9 | 51.0 | 27.4 | 0.3 |
| Queue Length 50th (ft) | 12 | 82 | 0 | 100 | 134 | 99 | 146 | 18 | 77 | 113 | 0 |
| Queue Length 95th (ft) | 41 | 162 | 60 | #229 | #343 | #233 | 213 | 79 | 160 | 161 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 282 | 506 | 573 | 321 | 568 | 304 | 2336 | 822 | 307 | 2360 | 812 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.08 | 0.31 | 0.34 | 0.60 | 0.62 | 0.62 | 0.37 | 0.27 | 0.47 | 0.28 | 0.05 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 211 | 131 | 257 | 153 | 121 | 58 | 251 | 1047 | 160 | 59 | 800 | 180 |
| v/c Ratio | 0.82 | 0.40 | 0.55 | 0.89 | 0.37 | 0.14 | 0.76 | 0.54 | 0.23 | 0.35 | 0.52 | 0.30 |
| Control Delay (s/veh) | 62.0 | 23.8 | 9.9 | 78.4 | 23.3 | 0.7 | 43.8 | 15.9 | 3.5 | 30.6 | 17.2 | 4.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 62.0 | 23.8 | 9.9 | 78.4 | 23.3 | 0.7 | 43.8 | 15.9 | 3.5 | 30.6 | 17.2 | 4.6 |
| Queue Length 50th (ft) | ~91 | 39 | 9 | 51 | 36 | 0 | 42 | 103 | 0 | 19 | 74 | 0 |
| Queue Length 95th (ft) | #219 | 80 | 60 | #159 | 75 | 0 | #105 | 161 | 30 | 52 | 119 | 37 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 230 | | 230 | 100 | | 100 | 235 | | 145 | 250 | | 130 |
| Base Capacity (vph) | 256 | 650 | 700 | 171 | 650 | 670 | 329 | 1925 | 711 | 171 | 1775 | 671 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.82 | 0.20 | 0.37 | 0.89 | 0.19 | 0.09 | 0.76 | 0.54 | 0.23 | 0.35 | 0.45 | 0.27 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 199 | 407 | 273 | 33 | 336 | 216 | 296 | 644 | 55 | 146 | 480 | 160 |
| v/c Ratio | 0.78 | 0.34 | 0.44 | 0.20 | 0.79 | 0.50 | 0.94 | 1.02 | 0.09 | 0.67 | 0.91 | 0.31 |
| Control Delay (s/veh) | 71.8 | 31.9 | 17.2 | 56.8 | 57.6 | 26.7 | 88.2 | 81.0 | 2.0 | 65.9 | 64.4 | 18.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 71.8 | 31.9 | 17.2 | 56.8 | 57.6 | 26.7 | 88.2 | 81.0 | 2.0 | 65.9 | 64.4 | 18.0 |
| Queue Length 50th (ft) | 150 | 134 | 79 | 24 | 245 | 82 | 230 | ~530 | 0 | 110 | 361 | 40 |
| Queue Length 95th (ft) | 246 | 179 | 159 | 61 | 364 | 163 | #452 | #936 | 9 | 186 | #633 | 106 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 235 | | 50 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 320 | 1192 | 629 | 320 | 546 | 529 | 314 | 632 | 598 | 311 | 530 | 516 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.62 | 0.34 | 0.43 | 0.10 | 0.62 | 0.41 | 0.94 | 1.02 | 0.09 | 0.47 | 0.91 | 0.31 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queues
## 1: Willow Avenue & Behymer Avenue



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 84 | 160 | 228 | 220 | 378 | 154 | 752 | 121 | 93 | 703 | 57 |
| v/c Ratio | 0.44 | 0.45 | 0.47 | 0.75 | 0.76 | 0.65 | 0.47 | 0.20 | 0.48 | 0.54 | 0.11 |
| Control Delay (s/veh) | 48.6 | 37.6 | 8.2 | 55.5 | 41.0 | 52.8 | 27.8 | 4.3 | 48.9 | 31.3 | 0.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 48.6 | 37.6 | 8.2 | 55.5 | 41.0 | 52.8 | 27.8 | 4.3 | 48.9 | 31.3 | 0.5 |
| Queue Length 50th (ft) | 47 | 82 | 0 | 123 | 185 | 86 | 133 | 0 | 52 | 130 | 0 |
| Queue Length 95th (ft) | 101 | 155 | 62 | #275 | #399 | 167 | 194 | 31 | 109 | 183 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 274 | 493 | 586 | 310 | 498 | 295 | 2272 | 786 | 292 | 2251 | 779 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.31 | 0.32 | 0.39 | 0.71 | 0.76 | 0.52 | 0.33 | 0.15 | 0.32 | 0.31 | 0.07 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
2: Willow Avenue & Perrin Avenue



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 214 | 72 | 197 | 107 | 98 | 32 | 125 | 796 | 81 | 24 | 957 | 207 |
| v/c Ratio | 0.57 | 0.19 | 0.41 | 0.39 | 0.36 | 0.09 | 0.38 | 0.35 | 0.10 | 0.15 | 0.59 | 0.33 |
| Control Delay (s/veh) | 40.5 | 34.3 | 8.1 | 42.9 | 43.0 | 0.5 | 46.9 | 20.4 | 1.5 | 47.1 | 28.2 | 8.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 40.5 | 34.3 | 8.1 | 42.9 | 43.0 | 0.5 | 46.9 | 20.4 | 1.5 | 47.1 | 28.2 | 8.4 |
| Queue Length 50th (ft) | 111 | 35 | 0 | 56 | 52 | 0 | 35 | 101 | 0 | 13 | 169 | 15 |
| Queue Length 95th (ft) | 214 | 83 | 59 | 125 | 117 | 0 | 77 | 202 | 11 | 44 | 256 | 74 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 230 | | 230 | 100 | | 100 | 235 | | 145 | 250 | | 130 |
| Base Capacity (vph) | 557 | 532 | 592 | 468 | 432 | 465 | 352 | 2380 | 808 | 165 | 2216 | 784 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.38 | 0.14 | 0.33 | 0.23 | 0.23 | 0.07 | 0.36 | 0.33 | 0.10 | 0.15 | 0.43 | 0.26 |

Intersection Summary

# Queues
## 6: Minnewawa Avenue & Shepherd Avenue

De Young Properties Peach and Behymer Project
Near Term WP_AM Peak Hour



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 112 | 436 | 288 | 47 | 368 | 239 | 217 | 346 | 39 | 236 | 620 | 155 |
| v/c Ratio | 0.56 | 0.42 | 0.51 | 0.27 | 0.80 | 0.52 | 0.80 | 0.64 | 0.07 | 0.83 | 1.11 | 0.29 |
| Control Delay (s/veh) | 60.6 | 34.5 | 20.7 | 56.0 | 54.8 | 26.9 | 69.4 | 43.2 | 0.3 | 70.5 | 110.2 | 16.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 60.6 | 34.5 | 20.7 | 56.0 | 54.8 | 26.9 | 69.4 | 43.2 | 0.3 | 70.5 | 110.2 | 16.5 |
| Queue Length 50th (ft) | 81 | 143 | 91 | 33 | 254 | 91 | 156 | 229 | 0 | 169 | ~544 | 35 |
| Queue Length 95th (ft) | 148 | 193 | 179 | 77 | 392 | 184 | #282 | 366 | 0 | #321 | #863 | 99 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 235 | | 50 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 328 | 1117 | 595 | 328 | 559 | 539 | 328 | 559 | 539 | 328 | 559 | 539 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.34 | 0.39 | 0.48 | 0.14 | 0.66 | 0.44 | 0.66 | 0.62 | 0.07 | 0.72 | 1.11 | 0.29 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queues
## 1: Willow Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Near Term WP_PM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 23 | 163 | 196 | 236 | 363 | 189 | 854 | 292 | 153 | 657 | 43 |
| v/c Ratio | 0.15 | 0.57 | 0.48 | 0.77 | 0.62 | 0.73 | 0.55 | 0.45 | 0.66 | 0.44 | 0.08 |
| Control Delay (s/veh) | 45.7 | 45.2 | 9.7 | 56.8 | 32.4 | 57.0 | 28.8 | 9.2 | 54.0 | 28.1 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 45.7 | 45.2 | 9.7 | 56.8 | 32.4 | 57.0 | 28.8 | 9.2 | 54.0 | 28.1 | 0.3 |
| Queue Length 50th (ft) | 12 | 87 | 0 | 129 | 141 | 101 | 150 | 25 | 83 | 114 | 0 |
| Queue Length 95th (ft) | 42 | 168 | 60 | #309 | #358 | #239 | 215 | 98 | 170 | 162 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 270 | 484 | 556 | 307 | 590 | 290 | 2233 | 826 | 293 | 2255 | 782 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.09 | 0.34 | 0.35 | 0.77 | 0.62 | 0.65 | 0.38 | 0.35 | 0.52 | 0.29 | 0.05 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
2: Willow Avenue & Perrin Avenue

De Young Properties Peach and Behymer Project
Near Term WP_PM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 234 | 131 | 257 | 153 | 121 | 58 | 251 | 1094 | 160 | 59 | 827 | 194 |
| v/c Ratio | 0.92 | 0.40 | 0.56 | 0.89 | 0.37 | 0.14 | 0.77 | 0.57 | 0.22 | 0.35 | 0.54 | 0.32 |
| Control Delay (s/veh) | 76.6 | 23.8 | 10.1 | 78.9 | 23.3 | 0.7 | 43.9 | 16.2 | 3.5 | 30.7 | 17.4 | 4.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 76.6 | 23.8 | 10.1 | 78.9 | 23.3 | 0.7 | 43.9 | 16.2 | 3.5 | 30.7 | 17.4 | 4.6 |
| Queue Length 50th (ft) | ~108 | 39 | 10 | 51 | 36 | 0 | 42 | 109 | 0 | 19 | 77 | 0 |
| Queue Length 95th (ft) | #243 | 80 | 61 | #159 | 75 | 0 | #106 | 170 | 30 | 52 | 124 | 38 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 230 | | 230 | 100 | | 100 | 235 | | 145 | 250 | | 130 |
| Base Capacity (vph) | 255 | 648 | 697 | 171 | 648 | 669 | 328 | 1929 | 712 | 171 | 1770 | 679 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.92 | 0.20 | 0.37 | 0.89 | 0.19 | 0.09 | 0.77 | 0.57 | 0.22 | 0.35 | 0.47 | 0.29 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
De Young Properties Peach and Benjamin Project
6: Minnewawa Avenue & Shepherd Avenue
Near Term WP_PM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 199 | 407 | 273 | 33 | 336 | 253 | 296 | 677 | 55 | 167 | 500 | 160 |
| v/c Ratio | 0.78 | 0.34 | 0.44 | 0.20 | 0.79 | 0.58 | 0.94 | 1.09 | 0.09 | 0.72 | 0.94 | 0.31 |
| Control Delay (s/veh) | 71.8 | 31.9 | 17.2 | 56.8 | 57.6 | 30.6 | 88.2 | 102.9 | 2.0 | 68.5 | 70.5 | 18.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 71.8 | 31.9 | 17.2 | 56.8 | 57.6 | 30.6 | 88.2 | 102.9 | 2.0 | 68.5 | 70.5 | 18.0 |
| Queue Length 50th (ft) | 150 | 134 | 79 | 24 | 245 | 107 | 230 | ~601 | 0 | 126 | 381 | 40 |
| Queue Length 95th (ft) | 246 | 179 | 159 | 61 | 364 | 200 | #452 | #995 | 9 | 210 | #672 | 106 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 235 | | 50 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 320 | 1192 | 629 | 320 | 546 | 532 | 314 | 620 | 587 | 311 | 530 | 516 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.62 | 0.34 | 0.43 | 0.10 | 0.62 | 0.48 | 0.94 | 1.09 | 0.09 | 0.54 | 0.94 | 0.31 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
1: Willow Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Cumulative Year NP_AM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 87 | 229 | 275 | 564 | 638 | 199 | 808 | 273 | 153 | 941 | 59 |
| v/c Ratio | 0.49 | 0.67 | 0.56 | 2.02 | 1.33 | 0.79 | 0.52 | 0.42 | 0.71 | 0.65 | 0.11 |
| Control Delay (s/veh) | 54.0 | 48.8 | 11.1 | 496.4 | 194.6 | 66.0 | 30.1 | 8.4 | 61.2 | 33.3 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 54.0 | 48.8 | 11.1 | 496.4 | 194.6 | 66.0 | 30.1 | 8.4 | 61.2 | 33.3 | 0.4 |
| Queue Length 50th (ft) | 54 | 135 | 12 | ~567 | ~537 | 123 | 156 | 21 | 93 | 191 | 0 |
| Queue Length 95th (ft) | 111 | 234 | 88 | #882 | #870 | #273 | 211 | 87 | #190 | 250 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 248 | 444 | 569 | 279 | 478 | 267 | 2050 | 774 | 264 | 2030 | 717 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.35 | 0.52 | 0.48 | 2.02 | 1.33 | 0.75 | 0.39 | 0.35 | 0.58 | 0.46 | 0.08 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queues
## 2: Willow Avenue & Perrin Avenue

De Young Properties Peach and Behymer Project
Cumulative Year NP_PM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 473 | 245 | 351 | 259 | 207 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| v/c Ratio | 1.11 | 0.62 | 0.70 | 0.78 | 0.70 | 0.32 | 1.17 | 0.86 | 0.46 | 0.91 | 0.54 | 0.54 |
| Control Delay (s/veh) | 118.0 | 48.6 | 25.8 | 61.8 | 58.5 | 8.3 | 158.0 | 42.2 | 14.5 | 109.2 | 31.6 | 8.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 118.0 | 48.6 | 25.8 | 61.8 | 58.5 | 8.3 | 158.0 | 42.2 | 14.5 | 109.2 | 31.6 | 8.4 |
| Queue Length 50th (ft) | ~406 | 166 | 101 | 183 | 145 | 0 | ~132 | 367 | 64 | 94 | 208 | 35 |
| Queue Length 95th (ft) | #612 | 253 | 212 | #298 | 226 | 42 | #221 | 430 | 145 | #212 | 253 | 122 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 230 | | 230 | 100 | | 100 | 235 | | 145 | 250 | | 130 |
| Base Capacity (vph) | 426 | 403 | 502 | 351 | 324 | 379 | 245 | 1693 | 645 | 138 | 1789 | 788 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 1.11 | 0.61 | 0.70 | 0.74 | 0.64 | 0.30 | 1.17 | 0.85 | 0.46 | 0.91 | 0.53 | 0.54 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
De Young Properties Peach and Behymer Project
6: Minnewawa Avenue & Shepherd Avenue
Cumulative Year NP_AM Peak Hour



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 421 | 55 | 323 | 1050 | 240 |
| v/c Ratio | 0.73 | 0.60 | 0.93 | 0.61 | 1.09 | 0.71 | 0.96 | 0.84 | 0.11 | 1.10 | 2.09 | 0.49 |
| Control Delay (s/veh) | 71.8 | 41.2 | 51.9 | 67.6 | 109.7 | 39.4 | 95.6 | 59.4 | 2.2 | 129.2 | 523.4 | 27.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 71.8 | 41.2 | 51.9 | 67.6 | 109.7 | 39.4 | 95.6 | 59.4 | 2.2 | 129.2 | 523.4 | 27.3 |
| Queue Length 50th (ft) | 129 | 221 | 302 | 91 | ~497 | 191 | 230 | 321 | 0 | ~295 | ~1342 | 99 |
| Queue Length 95th (ft) | 206 | 301 | #560 | 154 | #758 | 321 | #428 | #521 | 9 | #507 | #1675 | 190 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 235 | | 50 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 294 | 1022 | 593 | 294 | 502 | 493 | 294 | 502 | 493 | 294 | 502 | 493 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.55 | 0.60 | 0.93 | 0.39 | 1.09 | 0.71 | 0.96 | 0.84 | 0.11 | 1.10 | 2.09 | 0.49 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queues
## 1: Willow Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Cumulative Year NP_PM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 24 | 276 | 258 | 572 | 550 | 234 | 966 | 728 | 265 | 712 | 46 |
| v/c Ratio | 0.18 | 0.80 | 0.51 | 2.29 | 1.03 | 0.97 | 0.56 | 0.92 | 1.10 | 0.41 | 0.07 |
| Control Delay (s/veh) | 53.8 | 60.8 | 8.7 | 615.0 | 83.4 | 100.4 | 31.5 | 33.7 | 132.8 | 29.1 | 0.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 53.8 | 60.8 | 8.7 | 615.0 | 83.4 | 100.4 | 31.5 | 33.7 | 132.8 | 29.1 | 0.2 |
| Queue Length 50th (ft) | 17 | 193 | 0 | ~692 | ~469 | ~178 | 208 | 265 | ~229 | 144 | 0 |
| Queue Length 95th (ft) | 45 | #294 | 69 | #917 | #686 | #345 | 256 | #530 | #401 | 183 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 224 | 402 | 544 | 250 | 536 | 241 | 1854 | 827 | 241 | 1854 | 667 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.11 | 0.69 | 0.47 | 2.29 | 1.03 | 0.97 | 0.52 | 0.88 | 1.10 | 0.38 | 0.07 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

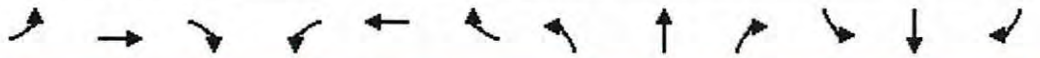
# Queues
## 2: Willow Avenue & Perrin Avenue

De Young Properties Peach and Behymer Project
Cumulative Year NP_AM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 287 | 123 | 215 | 203 | 187 | 78 | 165 | 888 | 138 | 46 | 1291 | 463 |
| v/c Ratio | 0.75 | 0.33 | 0.44 | 0.65 | 0.63 | 0.22 | 0.64 | 0.47 | 0.21 | 0.33 | 0.74 | 0.64 |
| Control Delay (s/veh) | 53.6 | 40.8 | 8.3 | 52.6 | 53.5 | 3.0 | 62.2 | 28.7 | 6.0 | 56.5 | 34.7 | 15.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 53.6 | 40.8 | 8.3 | 52.6 | 53.5 | 3.0 | 62.2 | 28.7 | 6.0 | 56.5 | 34.7 | 15.6 |
| Queue Length 50th (ft) | 194 | 76 | 0 | 138 | 127 | 0 | 61 | 185 | 2 | 32 | 300 | 101 |
| Queue Length 95th (ft) | 294 | 135 | 63 | 218 | 206 | 11 | #107 | 240 | 46 | 71 | 366 | 222 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 230 | | 230 | 100 | | 100 | 235 | | 145 | 250 | | 130 |
| Base Capacity (vph) | 445 | 421 | 524 | 374 | 345 | 396 | 258 | 1884 | 670 | 160 | 1852 | 758 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.64 | 0.29 | 0.41 | 0.54 | 0.54 | 0.20 | 0.64 | 0.47 | 0.21 | 0.29 | 0.70 | 0.61 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 1122 | 95 | 209 | 708 | 242 |
| v/c Ratio | 1.14 | 0.43 | 0.68 | 0.32 | 0.87 | 0.72 | 1.71 | 2.09 | 0.18 | 0.83 | 1.44 | 0.50 |
| Control Delay (s/veh) | 143.0 | 33.8 | 27.3 | 61.8 | 65.3 | 39.1 | 365.5 | 519.8 | 8.7 | 79.9 | 243.4 | 28.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 143.0 | 33.8 | 27.3 | 61.8 | 65.3 | 39.1 | 365.5 | 519.8 | 8.7 | 79.9 | 243.4 | 28.4 |
| Queue Length 50th (ft) | ~338 | 184 | 208 | 41 | 320 | 183 | ~622 | ~1528 | 2 | 171 | ~817 | 106 |
| Queue Length 95th (ft) | #529 | 240 | 339 | 85 | #474 | 296 | #839 | #1799 | 45 | #279 | #1055 | 192 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 235 | | 50 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 297 | 1256 | 682 | 297 | 507 | 511 | 292 | 538 | 522 | 289 | 493 | 486 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 1.14 | 0.43 | 0.68 | 0.17 | 0.79 | 0.68 | 1.71 | 2.09 | 0.18 | 0.72 | 1.44 | 0.50 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queues
## 1: Willow Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Cumulative Year WP_AM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 87 | 230 | 275 | 564 | 649 | 199 | 808 | 273 | 155 | 941 | 59 |
| v/c Ratio | 0.49 | 0.67 | 0.56 | 2.02 | 1.35 | 0.80 | 0.52 | 0.43 | 0.71 | 0.65 | 0.11 |
| Control Delay (s/veh) | 54.1 | 48.8 | 11.1 | 497.1 | 203.6 | 66.1 | 30.1 | 8.4 | 61.8 | 33.3 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 54.1 | 48.8 | 11.1 | 497.1 | 203.6 | 66.1 | 30.1 | 8.4 | 61.8 | 33.3 | 0.4 |
| Queue Length 50th (ft) | 54 | 136 | 12 | ~567 | ~552 | 123 | 156 | 21 | 95 | 191 | 0 |
| Queue Length 95th (ft) | 111 | 235 | 88 | #882 | #887 | #273 | 211 | 87 | #195 | 250 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 247 | 444 | 569 | 279 | 479 | 266 | 2049 | 774 | 264 | 2029 | 716 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.35 | 0.52 | 0.48 | 2.02 | 1.35 | 0.75 | 0.39 | 0.35 | 0.59 | 0.46 | 0.08 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queues
## 2: Willow Avenue & Perrin Avenue



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 287 | 130 | 215 | 203 | 206 | 78 | 165 | 888 | 138 | 46 | 1291 | 463 |
| v/c Ratio | 0.76 | 0.34 | 0.44 | 0.65 | 0.67 | 0.21 | 0.64 | 0.48 | 0.21 | 0.34 | 0.75 | 0.64 |
| Control Delay (s/veh) | 54.0 | 40.9 | 8.2 | 53.0 | 55.5 | 2.9 | 62.7 | 29.4 | 6.1 | 57.5 | 35.0 | 15.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 54.0 | 40.9 | 8.2 | 53.0 | 55.5 | 2.9 | 62.7 | 29.4 | 6.1 | 57.5 | 35.0 | 15.7 |
| Queue Length 50th (ft) | 196 | 81 | 0 | 139 | 142 | 0 | 61 | 190 | 2 | 33 | 304 | 103 |
| Queue Length 95th (ft) | 294 | 141 | 63 | 218 | 226 | 11 | #107 | 240 | 46 | 72 | 366 | 222 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 230 | | 230 | 100 | | 100 | 235 | | 145 | 250 | | 130 |
| Base Capacity (vph) | 442 | 421 | 524 | 371 | 343 | 394 | 257 | 1849 | 660 | 142 | 1839 | 755 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.65 | 0.31 | 0.41 | 0.55 | 0.60 | 0.20 | 0.64 | 0.48 | 0.21 | 0.32 | 0.70 | 0.61 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
De Young Properties Peach and Behymer Project
6: Minnewawa Avenue & Shepherd Avenue
Cumulative Year WP_AM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 432 | 55 | 323 | 1080 | 240 |
| v/c Ratio | 0.73 | 0.60 | 0.93 | 0.61 | 1.09 | 0.71 | 0.96 | 0.86 | 0.11 | 1.10 | 2.15 | 0.49 |
| Control Delay (s/veh) | 71.8 | 41.2 | 51.9 | 67.6 | 109.7 | 39.4 | 95.6 | 61.6 | 2.2 | 129.2 | 549.5 | 27.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 71.8 | 41.2 | 51.9 | 67.6 | 109.7 | 39.4 | 95.6 | 61.6 | 2.2 | 129.2 | 549.5 | 27.3 |
| Queue Length 50th (ft) | 129 | 221 | 302 | 91 | ~497 | 191 | 230 | 333 | 0 | ~295 | ~1392 | 99 |
| Queue Length 95th (ft) | 206 | 301 | #560 | 154 | #758 | 321 | #428 | #542 | 9 | #507 | #1727 | 190 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 235 | | 50 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 294 | 1022 | 593 | 294 | 502 | 493 | 294 | 502 | 493 | 294 | 502 | 493 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.55 | 0.60 | 0.93 | 0.39 | 1.09 | 0.71 | 0.96 | 0.86 | 0.11 | 1.10 | 2.15 | 0.49 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queues
## 1: Willow Avenue & Behymer Avenue



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 24 | 282 | 258 | 572 | 559 | 234 | 966 | 728 | 274 | 712 | 46 |
| v/c Ratio | 0.18 | 0.81 | 0.51 | 2.25 | 1.02 | 0.98 | 0.56 | 0.92 | 1.13 | 0.41 | 0.07 |
| Control Delay (s/veh) | 53.9 | 61.4 | 8.6 | 601.5 | 81.3 | 101.6 | 31.6 | 34.5 | 142.4 | 29.2 | 0.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 53.9 | 61.4 | 8.6 | 601.5 | 81.3 | 101.6 | 31.6 | 34.5 | 142.4 | 29.2 | 0.2 |
| Queue Length 50th (ft) | 17 | 197 | 0 | ~693 | ~474 | ~183 | 209 | 272 | ~243 | 145 | 0 |
| Queue Length 95th (ft) | 45 | #313 | 69 | #913 | #695 | #345 | 256 | #535 | #413 | 183 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 223 | 400 | 542 | 254 | 548 | 240 | 1846 | 822 | 242 | 1864 | 671 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.11 | 0.71 | 0.48 | 2.25 | 1.02 | 0.98 | 0.52 | 0.89 | 1.13 | 0.38 | 0.07 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queues
## 2: Willow Avenue & Perrin Avenue

De Young Properties Peach and Behymer Project
Cumulative Year WP_PM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 473 | 268 | 351 | 259 | 221 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| v/c Ratio | 1.12 | 0.67 | 0.70 | 0.79 | 0.73 | 0.31 | 1.18 | 0.86 | 0.46 | 0.91 | 0.54 | 0.54 |
| Control Delay (s/veh) | 119.5 | 50.7 | 25.6 | 62.0 | 60.6 | 8.2 | 159.8 | 42.5 | 14.6 | 109.9 | 31.7 | 8.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 119.5 | 50.7 | 25.6 | 62.0 | 60.6 | 8.2 | 159.8 | 42.5 | 14.6 | 109.9 | 31.7 | 8.4 |
| Queue Length 50th (ft) | ~406 | 184 | 101 | 183 | 156 | 0 | ~132 | 367 | 64 | 94 | 208 | 35 |
| Queue Length 95th (ft) | #612 | 278 | 212 | #298 | #244 | 42 | #221 | 430 | 145 | #212 | 253 | 122 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 230 | | 230 | 100 | | 100 | 235 | | 145 | 250 | | 130 |
| Base Capacity (vph) | 424 | 402 | 502 | 349 | 322 | 379 | 244 | 1687 | 643 | 138 | 1782 | 787 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 1.12 | 0.67 | 0.70 | 0.74 | 0.69 | 0.30 | 1.18 | 0.86 | 0.46 | 0.91 | 0.54 | 0.54 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 1155 | 95 | 209 | 728 | 242 |
| v/c Ratio | 1.14 | 0.43 | 0.68 | 0.32 | 0.87 | 0.72 | 1.71 | 2.15 | 0.18 | 0.83 | 1.48 | 0.50 |
| Control Delay (s/veh) | 143.0 | 33.8 | 27.3 | 61.8 | 65.3 | 39.1 | 365.5 | 546.6 | 8.7 | 79.9 | 260.2 | 28.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 143.0 | 33.8 | 27.3 | 61.8 | 65.3 | 39.1 | 365.5 | 546.6 | 8.7 | 79.9 | 260.2 | 28.4 |
| Queue Length 50th (ft) | ~338 | 184 | 208 | 41 | 320 | 183 | ~622 | ~1586 | 2 | 171 | ~852 | 106 |
| Queue Length 95th (ft) | #529 | 240 | 339 | 85 | #474 | 296 | #839 | #1856 | 45 | #279 | #1094 | 192 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 235 | | 50 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 297 | 1256 | 682 | 297 | 507 | 511 | 292 | 538 | 522 | 289 | 493 | 486 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 1.14 | 0.43 | 0.68 | 0.17 | 0.79 | 0.68 | 1.71 | 2.15 | 0.18 | 0.72 | 1.48 | 0.50 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queues
## 1: Willow Avenue & Behymer Avenue



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 82 | 134 | 188 | 93 | 289 | 106 | 714 | 53 | 70 | 630 | 56 |
| v/c Ratio | 0.36 | 0.28 | 0.35 | 0.37 | 0.62 | 0.43 | 0.48 | 0.09 | 0.32 | 0.45 | 0.10 |
| Control Delay (s/veh) | 42.5 | 30.1 | 6.9 | 41.2 | 32.6 | 42.8 | 26.7 | 0.3 | 42.3 | 27.6 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 42.5 | 30.1 | 6.9 | 41.2 | 32.6 | 42.8 | 26.7 | 0.3 | 42.3 | 27.6 | 0.4 |
| Queue Length 50th (ft) | 41 | 57 | 0 | 46 | 117 | 53 | 114 | 0 | 35 | 102 | 0 |
| Queue Length 95th (ft) | 96 | 124 | 54 | 103 | 235 | 115 | 177 | 0 | 85 | 163 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 355 | | 300 | | 455 | 415 | | 205 |
| Base Capacity (vph) | 348 | 625 | 655 | 393 | 609 | 375 | 2860 | 952 | 371 | 2833 | 944 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.24 | 0.21 | 0.29 | 0.24 | 0.47 | 0.28 | 0.25 | 0.06 | 0.19 | 0.22 | 0.06 |

Intersection Summary



| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 177 | 172 | 91 | 720 | 822 | 122 |
| v/c Ratio | 0.42 | 0.34 | 0.18 | 0.25 | 0.43 | 0.18 |
| Control Delay (s/veh) | 24.3 | 6.0 | 27.0 | 6.6 | 15.3 | 4.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 24.3 | 6.0 | 27.0 | 6.6 | 15.3 | 4.2 |
| Queue Length 50th (ft) | 59 | 0 | 16 | 39 | 82 | 0 |
| Queue Length 95th (ft) | 115 | 42 | 39 | 69 | 128 | 30 |
| Internal Link Dist (ft) | 1383 | | | 1272 | 2582 | |
| Turn Bay Length (ft) | 250 | 230 | 300 | | | 225 |
| Base Capacity (vph) | 796 | 807 | 857 | 3247 | 2689 | 894 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.22 | 0.21 | 0.11 | 0.22 | 0.31 | 0.14 |

Intersection Summary

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 37 | 346 | 139 | 15 | 288 | 161 | 130 | 176 | 20 | 132 | 240 | 37 |
| v/c Ratio | 0.13 | 0.30 | 0.24 | 0.05 | 0.60 | 0.30 | 0.42 | 0.42 | 0.05 | 0.42 | 0.57 | 0.09 |
| Control Delay (s/veh) | 38.1 | 20.3 | 10.1 | 38.5 | 32.5 | 6.5 | 38.5 | 31.5 | 0.2 | 38.4 | 34.6 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 38.1 | 20.3 | 10.1 | 38.5 | 32.5 | 6.5 | 38.5 | 31.5 | 0.2 | 38.4 | 34.6 | 0.4 |
| Queue Length 50th (ft) | 16 | 53 | 13 | 7 | 126 | 0 | 61 | 76 | 0 | 62 | 108 | 0 |
| Queue Length 95th (ft) | 56 | 137 | 71 | 30 | 249 | 48 | 141 | 163 | 0 | 142 | 219 | 0 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 500 | | 45 | 220 | | 175 | 230 | | | 425 | | 150 |
| Base Capacity (vph) | 534 | 1778 | 840 | 534 | 911 | 856 | 534 | 911 | 821 | 534 | 911 | 821 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.07 | 0.19 | 0.17 | 0.03 | 0.32 | 0.19 | 0.24 | 0.19 | 0.02 | 0.25 | 0.26 | 0.05 |

Intersection Summary

# Queues
## 1: Willow Avenue & Behymer Avenue

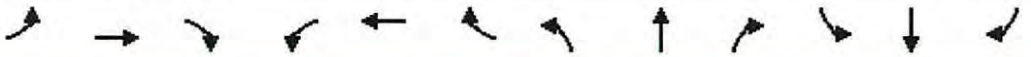


| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 24 | 127 | 141 | 109 | 308 | 138 | 850 | 140 | 120 | 651 | 47 |
| v/c Ratio | 0.13 | 0.38 | 0.35 | 0.48 | 0.62 | 0.57 | 0.52 | 0.23 | 0.51 | 0.40 | 0.08 |
| Control Delay (s/veh) | 41.9 | 36.1 | 9.0 | 44.1 | 31.6 | 46.0 | 25.2 | 5.6 | 44.8 | 24.2 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 41.9 | 36.1 | 9.0 | 44.1 | 31.6 | 46.0 | 25.2 | 5.6 | 44.8 | 24.2 | 0.3 |
| Queue Length 50th (ft) | 11 | 57 | 0 | 50 | 105 | 64 | 120 | 0 | 55 | 89 | 0 |
| Queue Length 95th (ft) | 39 | 124 | 45 | 114 | 247 | 140 | 195 | 36 | 123 | 147 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 355 | | 300 | | 455 | 415 | | 205 |
| Base Capacity (vph) | 313 | 562 | 576 | 357 | 566 | 337 | 2593 | 877 | 341 | 2619 | 885 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.08 | 0.23 | 0.24 | 0.31 | 0.54 | 0.41 | 0.33 | 0.16 | 0.35 | 0.25 | 0.05 |

Intersection Summary

| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 143 | 203 | 209 | 946 | 734 | 107 |
| v/c Ratio | 0.38 | 0.41 | 0.41 | 0.31 | 0.41 | 0.17 |
| Control Delay (s/veh) | 24.5 | 6.5 | 27.3 | 6.4 | 16.1 | 4.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 24.5 | 6.5 | 27.3 | 6.4 | 16.1 | 4.6 |
| Queue Length 50th (ft) | 45 | 0 | 37 | 52 | 69 | 0 |
| Queue Length 95th (ft) | 96 | 47 | 71 | 87 | 117 | 29 |
| Internal Link Dist (ft) | 1383 | | | 1272 | 2582 | |
| Turn Bay Length (ft) | 300 | 230 | 235 | | | 225 |
| Base Capacity (vph) | 738 | 780 | 799 | 3080 | 2559 | 850 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.19 | 0.26 | 0.26 | 0.31 | 0.29 | 0.13 |

Intersection Summary



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 46 | 311 | 117 | 6 | 253 | 129 | 136 | 248 | 25 | 72 | 198 | 38 |
| v/c Ratio | 0.15 | 0.27 | 0.20 | 0.02 | 0.54 | 0.26 | 0.42 | 0.45 | 0.05 | 0.24 | 0.49 | 0.09 |
| Control Delay (s/veh) | 34.4 | 19.6 | 8.5 | 34.3 | 30.5 | 6.9 | 35.4 | 28.3 | 0.2 | 34.9 | 31.8 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 34.4 | 19.6 | 8.5 | 34.3 | 30.5 | 6.9 | 35.4 | 28.3 | 0.2 | 34.9 | 31.8 | 0.4 |
| Queue Length 50th (ft) | 19 | 45 | 7 | 2 | 105 | 0 | 59 | 105 | 0 | 30 | 82 | 0 |
| Queue Length 95th (ft) | 60 | 117 | 53 | 15 | 206 | 43 | 132 | 197 | 0 | 83 | 170 | 0 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 500 | | 45 | 220 | | 175 | 230 | | | 260 | | 150 |
| Base Capacity (vph) | 574 | 1876 | 883 | 574 | 978 | 894 | 563 | 959 | 860 | 557 | 950 | 852 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.08 | 0.17 | 0.13 | 0.01 | 0.26 | 0.14 | 0.24 | 0.26 | 0.03 | 0.13 | 0.21 | 0.04 |

Intersection Summary

# Queues
## 1: Willow Avenue & Behymer Avenue



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 84 | 160 | 228 | 220 | 378 | 154 | 752 | 121 | 93 | 703 | 57 |
| v/c Ratio | 0.44 | 0.45 | 0.47 | 0.75 | 0.76 | 0.65 | 0.47 | 0.20 | 0.48 | 0.54 | 0.11 |
| Control Delay (s/veh) | 48.6 | 37.6 | 8.2 | 55.5 | 41.0 | 52.8 | 27.8 | 4.3 | 48.9 | 31.3 | 0.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 48.6 | 37.6 | 8.2 | 55.5 | 41.0 | 52.8 | 27.8 | 4.3 | 48.9 | 31.3 | 0.5 |
| Queue Length 50th (ft) | 47 | 82 | 0 | 123 | 185 | 86 | 133 | 0 | 52 | 130 | 0 |
| Queue Length 95th (ft) | 101 | 155 | 62 | #275 | #399 | 167 | 194 | 31 | 109 | 183 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 355 | | 300 | | 455 | 415 | | 205 |
| Base Capacity (vph) | 274 | 493 | 586 | 310 | 498 | 295 | 2272 | 786 | 292 | 2251 | 779 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.31 | 0.32 | 0.39 | 0.71 | 0.76 | 0.52 | 0.33 | 0.15 | 0.32 | 0.31 | 0.07 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 214 | 72 | 197 | 107 | 98 | 32 | 125 | 796 | 81 | 24 | 957 | 207 |
| v/c Ratio | 0.57 | 0.19 | 0.41 | 0.39 | 0.36 | 0.09 | 0.38 | 0.35 | 0.10 | 0.15 | 0.59 | 0.32 |
| Control Delay (s/veh) | 40.5 | 34.3 | 8.1 | 42.9 | 43.0 | 0.5 | 46.9 | 20.4 | 1.5 | 47.1 | 28.2 | 5.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 40.5 | 34.3 | 8.1 | 42.9 | 43.0 | 0.5 | 46.9 | 20.4 | 1.5 | 47.1 | 28.2 | 5.3 |
| Queue Length 50th (ft) | 111 | 35 | 0 | 56 | 52 | 0 | 35 | 101 | 0 | 13 | 169 | 0 |
| Queue Length 95th (ft) | 214 | 83 | 59 | 125 | 117 | 0 | 77 | 202 | 11 | 44 | 256 | 51 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 250 | | 230 | 300 | | 100 | 235 | | 145 | 250 | | 225 |
| Base Capacity (vph) | 557 | 532 | 592 | 468 | 432 | 465 | 352 | 2380 | 808 | 165 | 2216 | 805 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.38 | 0.14 | 0.33 | 0.23 | 0.23 | 0.07 | 0.36 | 0.33 | 0.10 | 0.15 | 0.43 | 0.26 |

Intersection Summary

| Lane Group | EBT | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 353 | 581 | 125 | 304 | 194 | 298 |
| v/c Ratio | 0.54 | 0.87 | 0.57 | 0.67 | 0.70 | 0.50 |
| Control Delay (s/veh) | 16.2 | 33.3 | 38.7 | 27.6 | 41.5 | 20.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 16.2 | 33.3 | 38.7 | 27.6 | 41.5 | 20.9 |
| Queue Length 50th (ft) | 76 | 166 | 44 | 98 | 68 | 92 |
| Queue Length 95th (ft) | 164 | #379 | #114 | 169 | #170 | 158 |
| Internal Link Dist (ft) | 517 | 746 | | 2579 | | 1236 |
| Turn Bay Length (ft) | | | 300 | | 350 | |
| Base Capacity (vph) | 711 | 718 | 229 | 624 | 290 | 689 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.50 | 0.81 | 0.55 | 0.49 | 0.67 | 0.43 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Lane Group | EBT | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 185 | 93 | 66 | 479 | 2 | 650 |
| v/c Ratio | 0.49 | 0.25 | 0.32 | 0.41 | 0.01 | 0.62 |
| Control Delay (s/veh) | 17.5 | 18.4 | 27.0 | 8.7 | 23.0 | 16.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 17.5 | 18.4 | 27.0 | 8.7 | 23.0 | 16.2 |
| Queue Length 50th (ft) | 35 | 24 | 19 | 55 | 1 | 153 |
| Queue Length 95th (ft) | 82 | 55 | 54 | 205 | 6 | #370 |
| Internal Link Dist (ft) | 5362 | 554 | | 2572 | | 2579 |
| Turn Bay Length (ft) | | | 175 | | 100 | |
| Base Capacity (vph) | 722 | 761 | 209 | 1226 | 204 | 1087 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.26 | 0.12 | 0.32 | 0.39 | 0.01 | 0.60 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
De Young Properties Peach and Behymer Project
6: Minnewawa Avenue & Shepherd Avenue
Near Term WP_AM Peak Hour MIT



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 112 | 436 | 288 | 47 | 368 | 239 | 217 | 346 | 39 | 236 | 620 | 155 |
| v/c Ratio | 0.56 | 0.42 | 0.52 | 0.27 | 0.80 | 0.45 | 0.80 | 0.64 | 0.07 | 0.83 | 1.11 | 0.29 |
| Control Delay (s/veh) | 60.6 | 34.5 | 21.9 | 56.0 | 54.8 | 11.3 | 69.4 | 43.2 | 0.3 | 70.5 | 110.2 | 16.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 60.6 | 34.5 | 21.9 | 56.0 | 54.8 | 11.3 | 69.4 | 43.2 | 0.3 | 70.5 | 110.2 | 16.5 |
| Queue Length 50th (ft) | 81 | 143 | 97 | 33 | 254 | 25 | 156 | 229 | 0 | 169 | ~544 | 35 |
| Queue Length 95th (ft) | 148 | 193 | 187 | 77 | 392 | 99 | #282 | 366 | 0 | #321 | #863 | 99 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 500 | | 45 | 220 | | 175 | 230 | | | 425 | | 150 |
| Base Capacity (vph) | 328 | 1117 | 589 | 328 | 559 | 611 | 328 | 559 | 539 | 328 | 559 | 539 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.34 | 0.39 | 0.49 | 0.14 | 0.66 | 0.39 | 0.66 | 0.62 | 0.07 | 0.72 | 1.11 | 0.29 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
1: Willow Avenue & Behymer Avenue



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 23 | 163 | 196 | 236 | 363 | 189 | 854 | 292 | 153 | 657 | 43 |
| v/c Ratio | 0.15 | 0.57 | 0.48 | 0.77 | 0.62 | 0.73 | 0.55 | 0.43 | 0.66 | 0.44 | 0.08 |
| Control Delay (s/veh) | 45.7 | 45.2 | 9.7 | 56.8 | 32.4 | 57.0 | 28.8 | 5.3 | 54.0 | 28.1 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 45.7 | 45.2 | 9.7 | 56.8 | 32.4 | 57.0 | 28.8 | 5.3 | 54.0 | 28.1 | 0.3 |
| Queue Length 50th (ft) | 12 | 87 | 0 | 129 | 141 | 101 | 150 | 0 | 83 | 114 | 0 |
| Queue Length 95th (ft) | 42 | 168 | 60 | #309 | #358 | #239 | 215 | 59 | 170 | 162 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 355 | | 300 | | 455 | 415 | | 205 |
| Base Capacity (vph) | 270 | 484 | 556 | 307 | 590 | 290 | 2233 | 860 | 293 | 2255 | 782 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.09 | 0.34 | 0.35 | 0.77 | 0.62 | 0.65 | 0.38 | 0.34 | 0.52 | 0.29 | 0.05 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
2: Willow Avenue & Perrin Avenue

De Young Properties Peach and Behymer Project
Near Term WP_PM Peak Hour MIT

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 234 | 131 | 257 | 153 | 121 | 58 | 251 | 1094 | 160 | 59 | 827 | 194 |
| v/c Ratio | 0.92 | 0.40 | 0.56 | 0.89 | 0.37 | 0.14 | 0.77 | 0.57 | 0.22 | 0.35 | 0.54 | 0.32 |
| Control Delay (s/veh) | 76.6 | 23.8 | 10.1 | 78.9 | 23.3 | 0.7 | 43.9 | 16.2 | 3.5 | 30.7 | 17.4 | 4.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 76.6 | 23.8 | 10.1 | 78.9 | 23.3 | 0.7 | 43.9 | 16.2 | 3.5 | 30.7 | 17.4 | 4.6 |
| Queue Length 50th (ft) | ~108 | 39 | 10 | 51 | 36 | 0 | 42 | 109 | 0 | 19 | 77 | 0 |
| Queue Length 95th (ft) | #243 | 80 | 61 | #159 | 75 | 0 | #106 | 170 | 30 | 52 | 124 | 38 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 250 | | 230 | 300 | | 100 | 235 | | 145 | 250 | | 225 |
| Base Capacity (vph) | 255 | 648 | 697 | 171 | 648 | 669 | 328 | 1929 | 712 | 171 | 1770 | 679 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.92 | 0.20 | 0.37 | 0.89 | 0.19 | 0.09 | 0.77 | 0.57 | 0.22 | 0.35 | 0.47 | 0.29 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Lane Group | EBT | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 413 | 526 | 185 | 410 | 209 | 249 |
| v/c Ratio | 0.70 | 0.87 | 0.68 | 0.78 | 0.72 | 0.46 |
| Control Delay (s/veh) | 24.5 | 36.7 | 40.6 | 31.0 | 41.7 | 20.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 24.5 | 36.7 | 40.6 | 31.0 | 41.7 | 20.2 |
| Queue Length 50th (ft) | 123 | 171 | 68 | 138 | 77 | 74 |
| Queue Length 95th (ft) | #230 | #352 | #157 | #235 | #174 | 132 |
| Internal Link Dist (ft) | 517 | 456 | | 2579 | | 1236 |
| Turn Bay Length (ft) | | | 300 | | 350 | |
| Base Capacity (vph) | 639 | 647 | 290 | 642 | 311 | 663 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.65 | 0.81 | 0.64 | 0.64 | 0.67 | 0.38 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Lane Group | EBT | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 239 | 119 | 93 | 657 | 1 | 499 |
| v/c Ratio | 0.58 | 0.29 | 0.51 | 0.64 | 0.01 | 0.63 |
| Control Delay (s/veh) | 20.0 | 18.7 | 37.8 | 14.1 | 26.0 | 16.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 20.0 | 18.7 | 37.8 | 14.1 | 26.0 | 16.6 |
| Queue Length 50th (ft) | 46 | 27 | 25 | 99 | 0 | 110 |
| Queue Length 95th (ft) | 119 | 73 | #103 | #402 | 4 | 238 |
| Internal Link Dist (ft) | 5362 | 554 | | 2572 | | 2579 |
| Turn Bay Length (ft) | | | 175 | | 100 | |
| Base Capacity (vph) | 655 | 676 | 184 | 1110 | 182 | 1057 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.36 | 0.18 | 0.51 | 0.59 | 0.01 | 0.47 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 199 | 407 | 273 | 33 | 336 | 253 | 296 | 732 | 167 | 500 | 160 |
| v/c Ratio | 0.87 | 0.37 | 0.46 | 0.20 | 0.82 | 0.49 | 0.90 | 0.59 | 0.72 | 0.90 | 0.29 |
| Control Delay (s/veh) | 87.9 | 36.3 | 21.6 | 58.3 | 62.6 | 11.9 | 79.1 | 34.7 | 69.5 | 61.8 | 10.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 87.9 | 36.3 | 21.6 | 58.3 | 62.6 | 11.9 | 79.1 | 34.7 | 69.5 | 61.8 | 10.7 |
| Queue Length 50th (ft) | 167 | 149 | 96 | 26 | 266 | 24 | 245 | 254 | 137 | 397 | 20 |
| Queue Length 95th (ft) | #312 | 199 | 185 | 61 | #397 | 101 | #416 | 339 | 210 | #597 | 74 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | 2572 | |
| Turn Bay Length (ft) | 500 | | 45 | 220 | | 175 | 230 | | 425 | | 150 |
| Base Capacity (vph) | 241 | 1117 | 593 | 166 | 476 | 567 | 355 | 1323 | 308 | 617 | 608 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.83 | 0.36 | 0.46 | 0.20 | 0.71 | 0.45 | 0.83 | 0.55 | 0.54 | 0.81 | 0.26 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
1: Willow Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Cumulative Year WP_AM Peak Hour MIT

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 87 | 230 | 275 | 564 | 302 | 347 | 199 | 808 | 273 | 155 | 941 | 59 |
| v/c Ratio | 0.59 | 0.71 | 0.58 | 0.87 | 0.55 | 0.51 | 0.85 | 0.54 | 0.28 | 0.74 | 0.66 | 0.10 |
| Control Delay (s/veh) | 64.6 | 52.8 | 12.3 | 57.3 | 36.7 | 8.6 | 76.5 | 31.9 | 3.6 | 65.9 | 34.5 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 64.6 | 52.8 | 12.3 | 57.3 | 36.7 | 8.6 | 76.5 | 31.9 | 3.6 | 65.9 | 34.5 | 0.4 |
| Queue Length 50th (ft) | 55 | 141 | 16 | 184 | 172 | 20 | 128 | 164 | 12 | 96 | 195 | 0 |
| Queue Length 95th (ft) | #137 | 241 | 96 | #336 | 286 | 103 | #299 | 219 | 55 | #212 | 257 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 355 | | 150 | 300 | | 455 | 415 | | 205 |
| Base Capacity (vph) | 153 | 431 | 555 | 645 | 606 | 721 | 234 | 1850 | 964 | 242 | 1863 | 697 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.57 | 0.53 | 0.50 | 0.87 | 0.50 | 0.48 | 0.85 | 0.44 | 0.28 | 0.64 | 0.51 | 0.08 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
De Young Properties Peach and Behymer Project
4: Minnewawa Avenue & Behymer Avenue
Cumulative Year WP_AM Peak Hour MIT



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 16 | 267 | 187 | 65 | 541 | 288 | 193 | 327 | 36 | 258 | 586 |
| v/c Ratio | 0.16 | 0.42 | 0.28 | 0.21 | 0.84 | 0.42 | 0.61 | 0.51 | 0.06 | 0.50 | 0.85 |
| Control Delay (s/veh) | 27.1 | 25.4 | 4.8 | 24.0 | 40.7 | 9.3 | 22.8 | 26.4 | 2.1 | 14.5 | 38.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 27.1 | 25.4 | 4.8 | 24.0 | 40.7 | 9.3 | 22.8 | 26.4 | 2.1 | 14.5 | 38.3 |
| Queue Length 50th (ft) | 6 | 118 | 0 | 26 | 287 | 32 | 55 | 150 | 0 | 77 | 309 |
| Queue Length 95th (ft) | 25 | 198 | 45 | 62 | #480 | 99 | #114 | 244 | 9 | 128 | #467 |
| Internal Link Dist (ft) | | 517 | | | 746 | | | 2579 | | | 1236 |
| Turn Bay Length (ft) | 100 | | 125 | 100 | | 150 | 300 | | | 350 | |
| Base Capacity (vph) | 123 | 796 | 783 | 396 | 812 | 808 | 334 | 806 | 721 | 584 | 900 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.13 | 0.34 | 0.24 | 0.16 | 0.67 | 0.36 | 0.58 | 0.41 | 0.05 | 0.44 | 0.65 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queues
## 5: Minnewawa Avenue & Perrin Avenue



| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 92 | 272 | 24 | 161 | 104 | 599 | 3 | 1228 |
| v/c Ratio | 0.65 | 0.60 | 0.18 | 0.48 | 0.63 | 0.38 | 0.02 | 0.83 |
| Control Delay (s/veh) | 59.5 | 26.5 | 38.3 | 32.5 | 54.2 | 14.9 | 35.3 | 25.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 59.5 | 26.5 | 38.3 | 32.5 | 54.2 | 14.9 | 35.3 | 25.5 |
| Queue Length 50th (ft) | 42 | 80 | 11 | 68 | 47 | 88 | 1 | 242 |
| Queue Length 95th (ft) | #124 | 176 | 35 | 123 | #131 | 148 | 10 | #418 |
| Internal Link Dist (ft) | | 5362 | | 554 | | 2572 | | 2579 |
| Turn Bay Length (ft) | 175 | | 100 | | 175 | | 100 | |
| Base Capacity (vph) | 141 | 523 | 131 | 486 | 165 | 1702 | 127 | 1613 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.65 | 0.52 | 0.18 | 0.33 | 0.63 | 0.35 | 0.02 | 0.76 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 487 | 323 | 1080 | 240 |
| v/c Ratio | 0.78 | 0.74 | 0.78 | 0.65 | 0.72 | 0.42 | 0.66 | 0.51 | 0.87 | 0.85 | 0.37 |
| Control Delay (s/veh) | 76.3 | 47.7 | 33.7 | 71.3 | 49.1 | 12.5 | 58.1 | 38.1 | 68.0 | 42.4 | 15.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 76.3 | 47.7 | 33.7 | 71.3 | 49.1 | 12.5 | 58.1 | 38.1 | 68.0 | 42.4 | 15.0 |
| Queue Length 50th (ft) | 124 | 234 | 320 | 88 | 212 | 94 | 110 | 164 | 240 | 390 | 58 |
| Queue Length 95th (ft) | #255 | 314 | 469 | #186 | 286 | 174 | 163 | 234 | #412 | 539 | 138 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | 2572 | |
| Turn Bay Length (ft) | 500 | | 45 | 220 | | 175 | 230 | | 425 | | 150 |
| Base Capacity (vph) | 229 | 1009 | 763 | 183 | 917 | 890 | 563 | 1089 | 443 | 1407 | 705 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.71 | 0.61 | 0.72 | 0.63 | 0.60 | 0.39 | 0.50 | 0.45 | 0.73 | 0.77 | 0.34 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

## Queuing and Blocking Report

### Intersection: 9: Project Driveway 3 & Behymer Avenue

| Movement | WB | NB |
|---|---|---|
| Directions Served | L | R |
| Maximum Queue (ft) | 28 | 103 |
| Average Queue (ft) | 3 | 22 |
| 95th Queue (ft) | 17 | 60 |
| Link Distance (ft) | | 399 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | 100 | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Queues
1: Willow Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Cumulative Year WP_PM Peak Hour MIT

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 24 | 282 | 258 | 572 | 277 | 282 | 234 | 966 | 728 | 274 | 712 | 46 |
| v/c Ratio | 0.18 | 0.79 | 0.50 | 0.97 | 0.41 | 0.37 | 0.68 | 0.67 | 0.90 | 1.07 | 0.59 | 0.09 |
| Control Delay (s/veh) | 51.3 | 56.5 | 8.4 | 74.4 | 30.2 | 5.3 | 51.9 | 35.7 | 27.9 | 119.4 | 37.9 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 51.3 | 56.5 | 8.4 | 74.4 | 30.2 | 5.3 | 51.9 | 35.7 | 27.9 | 119.4 | 37.9 | 0.3 |
| Queue Length 50th (ft) | 15 | 178 | 0 | 198 | 124 | 0 | 147 | 211 | 191 | ~205 | 156 | 0 |
| Queue Length 95th (ft) | 45 | #308 | 68 | #352 | 260 | 64 | #264 | 263 | #453 | #410 | 205 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 355 | | 150 | 300 | | 455 | 415 | | 205 |
| Base Capacity (vph) | 137 | 424 | 559 | 591 | 676 | 756 | 342 | 1858 | 810 | 257 | 1978 | 731 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.18 | 0.67 | 0.46 | 0.97 | 0.41 | 0.37 | 0.68 | 0.52 | 0.90 | 1.07 | 0.36 | 0.06 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queues
## 2: Willow Avenue & Perrin Avenue

De Young Properties Peach and Behymer Project
Cumulative Year WP_PM Peak Hour MIT



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 473 | 268 | 351 | 259 | 221 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| v/c Ratio | 0.95 | 0.60 | 0.64 | 0.82 | 0.87 | 0.30 | 0.80 | 0.92 | 0.48 | 0.85 | 0.63 | 0.55 |
| Control Delay (s/veh) | 71.2 | 46.3 | 20.0 | 66.3 | 81.5 | 2.3 | 67.2 | 48.4 | 14.5 | 94.4 | 37.2 | 5.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 71.2 | 46.3 | 20.0 | 66.3 | 81.5 | 2.3 | 67.2 | 48.4 | 14.5 | 94.4 | 37.2 | 5.9 |
| Queue Length 50th (ft) | 344 | 180 | 80 | 185 | 163 | 0 | 108 | 377 | 60 | 93 | 224 | 0 |
| Queue Length 95th (ft) | #551 | 271 | 186 | #312 | #302 | 3 | #168 | #467 | 142 | #200 | 273 | 75 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 250 | | 230 | 300 | | 100 | 235 | | 145 | 250 | | 225 |
| Base Capacity (vph) | 498 | 443 | 550 | 329 | 253 | 376 | 374 | 1579 | 620 | 152 | 1529 | 773 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.95 | 0.60 | 0.64 | 0.79 | 0.87 | 0.30 | 0.77 | 0.92 | 0.48 | 0.83 | 0.63 | 0.55 |

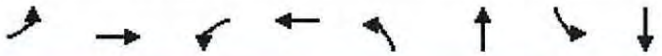
Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 18 | 534 | 194 | 38 | 543 | 240 | 280 | 675 | 69 | 243 | 349 |
| v/c Ratio | 0.27 | 0.91 | 0.34 | 0.57 | 0.91 | 0.40 | 0.50 | 0.92 | 0.10 | 0.84 | 0.79 |
| Control Delay (s/veh) | 43.3 | 58.4 | 17.4 | 68.6 | 57.8 | 15.6 | 37.0 | 51.2 | 8.1 | 72.7 | 53.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 43.3 | 58.4 | 17.4 | 68.6 | 57.8 | 15.6 | 37.0 | 51.2 | 8.1 | 72.7 | 53.0 |
| Queue Length 50th (ft) | 10 | 393 | 55 | 24 | 399 | 58 | 171 | 482 | 6 | 185 | 255 |
| Queue Length 95th (ft) | 34 | #595 | 118 | #81 | #602 | 129 | 286 | #712 | 35 | #327 | 332 |
| Internal Link Dist (ft) | | 517 | | | 624 | | | 2579 | | | 1236 |
| Turn Bay Length (ft) | 100 | | 125 | 100 | | 150 | 300 | | | 350 | |
| Base Capacity (vph) | 73 | 653 | 618 | 75 | 666 | 656 | 566 | 823 | 731 | 311 | 644 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.25 | 0.82 | 0.31 | 0.51 | 0.82 | 0.37 | 0.49 | 0.82 | 0.09 | 0.78 | 0.54 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 136 | 345 | 24 | 191 | 169 | 1177 | 4 | 765 |
| v/c Ratio | 0.65 | 0.59 | 0.18 | 0.56 | 0.65 | 0.69 | 0.03 | 0.75 |
| Control Delay (s/veh) | 49.9 | 24.1 | 38.3 | 33.5 | 43.7 | 18.8 | 35.5 | 28.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 49.9 | 24.1 | 38.3 | 33.5 | 43.7 | 18.8 | 35.5 | 28.0 |
| Queue Length 50th (ft) | 60 | 103 | 10 | 79 | 72 | 184 | 2 | 154 |
| Queue Length 95th (ft) | #153 | 224 | 35 | 144 | #162 | #404 | 11 | 237 |
| Internal Link Dist (ft) | | 5362 | | 554 | | 2572 | | 2579 |
| Turn Bay Length (ft) | 175 | | 100 | | 175 | | 100 | |
| Base Capacity (vph) | 217 | 601 | 130 | 483 | 293 | 1753 | 126 | 1203 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.63 | 0.57 | 0.18 | 0.40 | 0.58 | 0.67 | 0.03 | 0.64 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 1250 | 209 | 728 | 242 |
| v/c Ratio | 0.98 | 0.61 | 0.53 | 0.20 | 0.67 | 0.64 | 0.68 | 1.02 | 0.95 | 0.79 | 0.45 |
| Control Delay (s/veh) | 92.9 | 44.9 | 18.6 | 48.3 | 52.8 | 22.5 | 50.5 | 68.7 | 103.2 | 48.1 | 14.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 92.9 | 44.9 | 18.6 | 48.3 | 52.8 | 22.5 | 50.5 | 68.7 | 103.2 | 48.1 | 14.2 |
| Queue Length 50th (ft) | 263 | 207 | 188 | 35 | 155 | 114 | 186 | ~518 | 163 | 272 | 43 |
| Queue Length 95th (ft) | #480 | 263 | 301 | 77 | 210 | 175 | #291 | #721 | #332 | 349 | 117 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | 2572 | |
| Turn Bay Length (ft) | 500 | | 45 | 220 | | 175 | 230 | | 425 | | 150 |
| Base Capacity (vph) | 346 | 1264 | 881 | 250 | 902 | 538 | 731 | 1230 | 219 | 1052 | 588 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.98 | 0.43 | 0.53 | 0.20 | 0.45 | 0.64 | 0.68 | 1.02 | 0.95 | 0.69 | 0.41 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queuing and Blocking Report

## Intersection: 9: Project Driveway 3 & Behymer Avenue

| Movement | WB | NB |
|---|---|---|
| Directions Served | L | R |
| Maximum Queue (ft) | 51 | 32 |
| Average Queue (ft) | 23 | 9 |
| 95th Queue (ft) | 44 | 30 |
| Link Distance (ft) | | 399 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | 100 | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

# TRANSPORTATION IMPACT ANALYSIS

## DE YOUNG PROPERTIES PEACH AND BEHYMER PROJECT

## CLOVIS, CALIFORNIA

LSA

October 2024

# TRANSPORTATION IMPACT ANALYSIS

## DE YOUNG PROPERTIES PEACH AND BEHYMER PROJECT

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# LIST OF ABBREVIATIONS AND ACRONYMS

| | |
|---|---|
| ABM | Activity Based Model |
| ADA | Americans with Disabilities Act |
| ATP | Active Transportation Plan |
| Caltrans | California Department of Transportation |
| CEQA | California Environmental Quality Act |
| City | City of Clovis |
| CUSD | Clovis Unified School District |
| FAX | Fresno Area Express |
| Fresno COG | Fresno Council of Governments |
| FTIP | Federal Transportation Improvement Program |
| HCM | *Highway Capacity Manual* |
| HCM 7 | *Highway Capacity Manual 7th Edition* |
| HDM | *Highway Design Manual* |
| HQTA | High-Quality Transit Area |
| ITE | Institute of Transportation Engineers |
| LOS | level of service |
| LTA | Local Transportation Analysis |
| mph | miles per hour |
| NCHRP | National Cooperative Highway Research Program |
| project | De Young Properties Peach and Behymer Project |
| RTP | Regional Transportation Plan |
| STIP | State Transportation Improvement Program |
| TAZ | traffic analysis zone |
| TIA | Traffic Impact Analysis |
| TIA Guidelines | Transportation Impact Analysis Guidelines |
| TIZ | Traffic Impact Zone |
| TWLTL | two-way-left-turn lane |
| VMT | vehicle miles traveled |

# 1.0 INTRODUCTION

This Transportation Impact Analysis (TIA) has been prepared to assess the potential circulation impacts associated with the proposed De Young Properties Peach and Behymer Project (project) within Fresno County (County) and proposed to be annexed in the City of Clovis (City). The approximately 37-acre project site is located at the southwest corner of Minnewawa Avenue and Behymer Avenue on parcels 556-01-028 and 556-01-029. The project site is currently occupied by one residential unit and agricultural uses. Figure 1-1 illustrates the regional and project location. (Figures and tables are provided at the end of each chapter.)

This report has been prepared based on the City of Clovis (City) *Transportation Impact Analysis Guidelines* (TIA Guidelines), dated September 15, 2022.

While level of service (LOS) analysis is no longer a determinant of California Environmental Quality Act (CEQA) impacts, consistency with the City's General Plan goals and policies is still required. Therefore, this TIA includes a Vehicle Miles Traveled (VMT) Analysis for a CEQA Transportation Impact evaluation, and a Local Transportation Analysis (LTA) to satisfy the City's General Plan transportation goals and policies. The scope of work for this TIA, including scope for the CEQA VMT Analysis and LTA with trip generation, trip distribution, study area, and analysis methodologies, has been approved by City staff via the Scoping Agreement process. A copy of the Scoping Agreement is included as Appendix A.

## 1.1 PROJECT DESCRIPTION

The proposed project is located within City's sphere of influence (SOI) and within the northwest urban center growth area. The project is proposing to annex approximately 37 acres from Fresno County into the City and includes the development of 266 single family dwelling units and 32,974 square-feet (sf) of park space. The project is consistent with the City's General Plan. For purposes of this TIA, the entire buildout condition of this project has been considered under all 'plus project' conditions. It is anticipated that the project buildout will occur in year 2028. Figure 1-2 illustrates the conceptual site plan for the project.

As illustrated in Figure 1-2, access to the project will be provided by four driveways:

- Project Driveway 1: This driveway will be located along Peach Avenue and will be a full-access driveway.
- Project Driveway 2: This driveway will be located along Behymer Avenue and will be a right in-right-out (RIRO) only driveway.
- Project Driveway 3: This driveway will be located along Behymer Avenue and will be a right in-right-out-left-in driveway. Left-out access will be restricted.
- Project Driveway 4: This driveway will be located along Behymer Avenue and will be a RIRO only driveway.

It should be noted that the project is also anticipated to have connections to adjacent future residential development located immediately south of the project site.

## 1.2 CEQA VEHICLE MILES TRAVELED ANALYSIS

As per the City's TIA Guidelines, the project cannot be considered small because it exceeds 53 dwelling units (City's threshold for screening out single-family home projects from a VMT analysis). Therefore, a detailed VMT analysis has been conducted for the project. For purposes of this analysis, the project-generated VMT per capita has been calculated using the Fresno Council of Governments (Fresno COG) Activity Based Model (ABM). As per the City's TIA Guidelines, a significant project-generated VMT impact would occur if the project's VMT per capita exceeds a level of 13 percent below the existing County average VMT per capita provided in the guidelines. The detailed VMT analysis, including the screening criteria evaluation, VMT analysis methodology, results, and appropriate mitigation measures for the proposed project are discussed in Chapter 2.0.

## 1.3 LOCAL TRANSPORTATION ANALYSIS STUDY AREA

The LTA for the project examines traffic operations in the vicinity of the proposed project under the following five scenarios:

- Existing Conditions;
- Existing Plus Project Conditions;
- Near-Term Plus Project Conditions;
- Cumulative Without Project Conditions; and
- Cumulative Plus Project Conditions.

Traffic conditions at study intersections were examined for weekday a.m. and p.m. peak-hour conditions. The a.m. peak hour is defined as the 1 hour of highest traffic volumes occurring between 7:00 a.m. and 9:00 a.m. The p.m. peak hour is the 1 hour of highest traffic volumes occurring between 4:00 p.m. and 6:00 p.m. Additionally, since the project is estimated to be completed in 2028, the Near-Term condition was evaluated for the year 2028.

As per the City's TIA Guidelines, the extent of the study area should include the following:

- Pedestrian, bicycle, and transit facilities within 0.5 mile from the project site boundary
- All intersections of major streets that would provide direct access to the project
- All signalized intersections within 0.5 mile of the project site boundary where the project would add 50 or more peak-hour trips, and signalized intersections beyond 0.5 mile where the project would add 100 or more peak-hour trips
- All unsignalized intersections within a 0.5 mile of the project site boundary where the project would add more than 50 peak-hour trips

Based on the aforementioned criteria and as per discussion with the City and adjacent jurisdictions during the scoping agreement process, the following intersections have been included in the LTA.

### 1.3.1 Study Intersections

Per the Scoping Agreement (Appendix A), intersections analyzed in the LTA and their jurisdictions are as follows:

1. Willow Avenue/Behymer Avenue (City of Clovis/City of Fresno);
2. Willow Avenue/Perrin Avenue (City of Clovis/City of Fresno);
3. Peach Avenue/Behymer Avenue (City of Clovis);
4. Minnewawa Avenue/Behymer Avenue (City of Clovis);
5. Minnewawa Avenue/Perrin Road (City of Clovis);
6. Minnewawa Avenue/Shepherd Avenue (City of Clovis);
7. Peach Avenue/Project Driveway 1 (City of Clovis);
8. Project Driveway 2/Behymer Avenue (City of Clovis);
9. Project Driveway 3/Behymer Avenue (City of Clovis); and
10. Project Driveway 4/Behymer Avenue (City of Clovis).

Figure 1-3 illustrates the study area intersections.

## 1.4 LIST OF CHAPTER 1.0 FIGURES

- Figure 1-1: Regional and Project Location
- Figure 1-2: Conceptual Site Plan
- Figure 1-3: Study Area Intersections




LSA

LEGEND

Project Location

FIGURE 1-1

0 1200 2400

FEET

SOURCE: ESRI Streetmap, 2021; Google Earth, 2022

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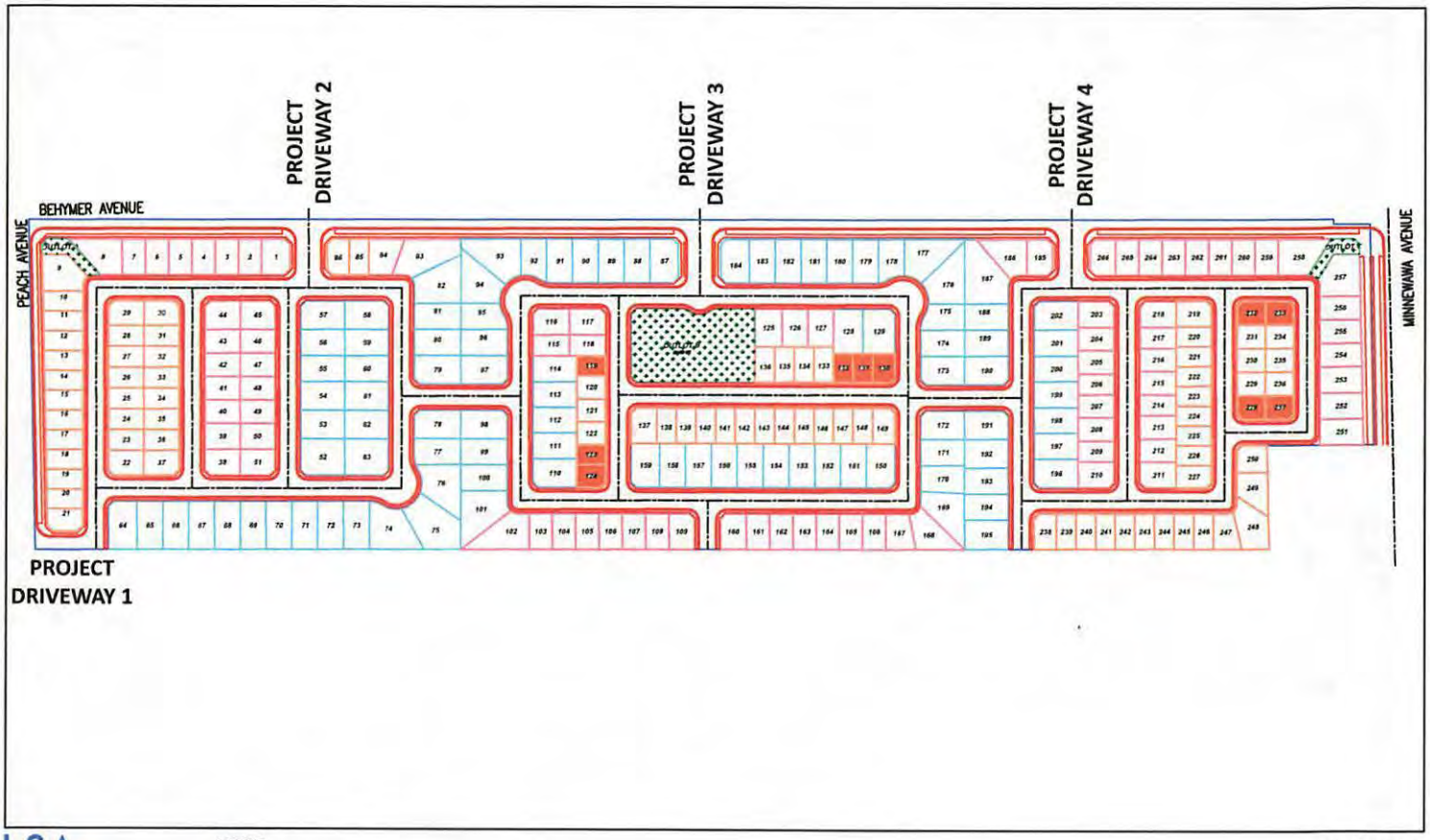
*De Young Properties Peach and Behymer*
*Transportation Impact Analysis*
Regional and Project L




LSA

LEGEND

| | | |
|---|---|---|
| 38' X 55' -TYPICAL | 10 LOTS | |
| 38' X 68'- TYPICAL | 79 LOTS | |
| 45' X 70'- TYPICAL | 82 LOTS | |
| 50' X 85'- TYPICAL | 95 LOTS | |
| 266 TOTAL SFR LOTS | | |

PARK

N

0 150 300
FEET

FIGURE 1-2

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Conceptual Site Plan

SOURCE: De Young Properties, February 2024.
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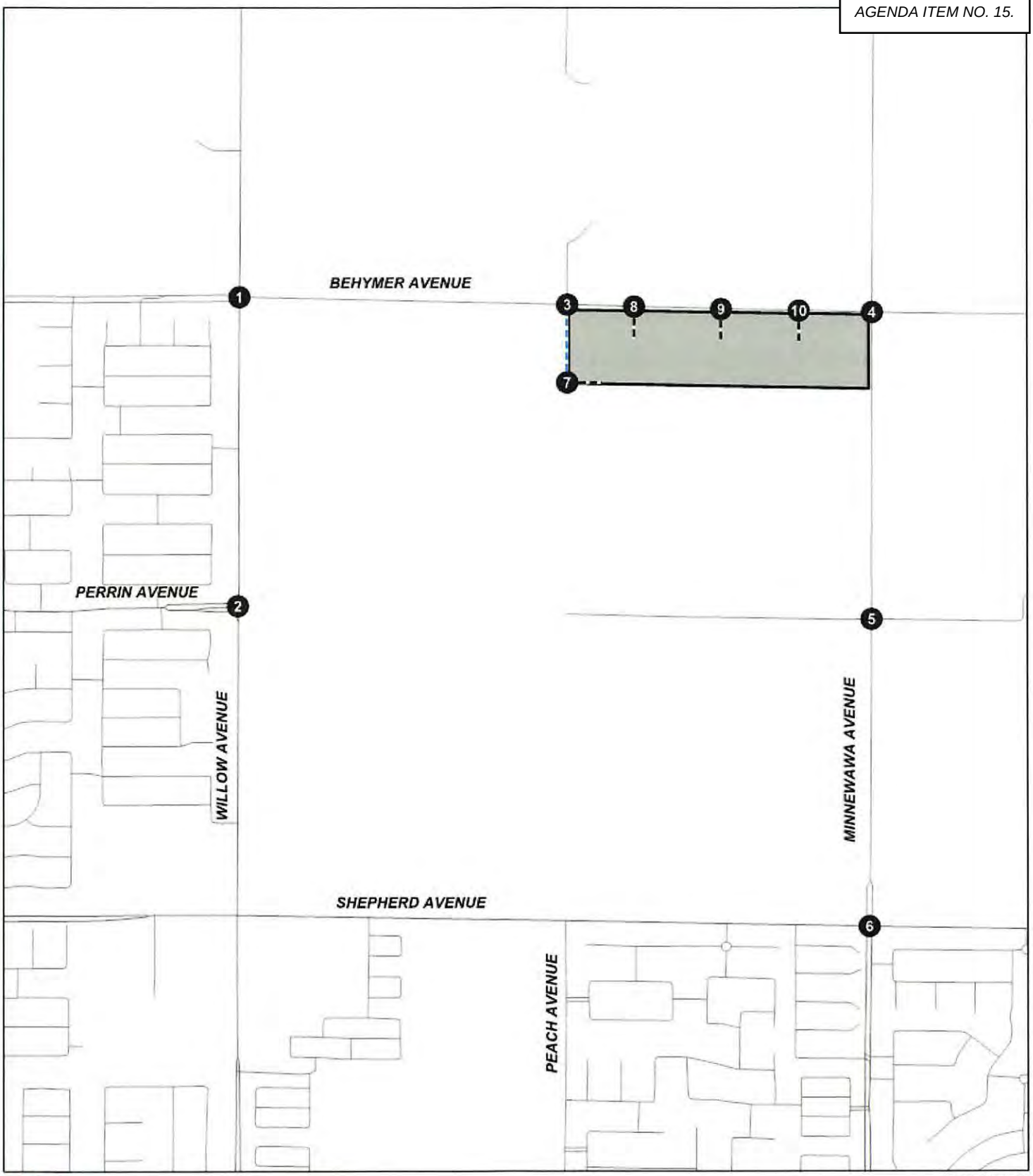


LSA

LEGEND

- Project Location
- Study Intersections
- Project Driveway
- Future Roadway

0 600 1200
FEET

FIGURE 1-3

*De Young Properties Peach and Behymer*
*Transportation Impact Analysis*
Study Inters



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# 2.0 VEHICLE MILES TRAVELED ANALYSIS

On December 28, 2018, the California Office of Administrative Law cleared the revised CEQA Guidelines for use. Among the changes to the CEQA Guidelines was the removal of vehicle delay and LOS from consideration under CEQA. With the adopted CEQA Guidelines, transportation impacts are to be evaluated based on a project's effect on VMT.

The City's TIA Guidelines includes screening criteria, VMT analysis methodology, VMT impact thresholds, and VMT mitigation measures. Therefore, the City's TIA Guidelines were used in the evaluation of the project's VMT analysis.

## 2.1 METHODOLOGY

The TIA Guidelines provide multiple project types and thresholds for land use projects. The project was compared with the screening criteria established in the "Project Screening" section of the TIA Guidelines to check if the project can be screened out. The following is a brief description of the project in relation with the project screening criteria:

- **Small Project:** The TIA Guidelines states that projects generating less than 500 daily trips could be screened out of a detailed VMT analysis. As discussed in Section 6.1, Project Trip Generation, the project is estimated to generate 2,508 daily trips. Therefore, the project does not satisfy this screening criteria.

- **Provision of Affordable Housing:** The project proposes to develop market-rate, single-family dwelling units. Therefore, this screening criteria does not apply to the project.

- **Local-Serving Retail:** The project consists of residential land use only; therefore, this screening criteria does not apply to the project.

- **Project Located in a High-Quality Transit Area (HQTA):** The project is not located within an HQTA; therefore, this screening criteria does not apply to the project.

- **Project Located in Low VMT Area:** The project is not located in a low VMT area; therefore, this criterion does not apply to the project.

As shown above, the project could not be screened out from a detailed VMT analysis. As such, pursuant to the TIA Guidelines, a detailed VMT analysis was conducted to assess the project's VMT impact.

### 2.1.1 Thresholds of Significance

The project consists of residential land use. The TIA Guidelines established VMT per capita as the appropriate metric to evaluate residential land use projects while defining Fresno County as the "region" for determining VMT thresholds. The project would have a significant VMT impact if the project VMT per capita is greater than 87 percent of the baseline Fresno County VMT per capita. Based on the TIA Guidelines, baseline Fresno County VMT per capita is 16.1 and the corresponding

threshold is 14.1 (which is 87 percent of 16.1). Therefore, the project will have a significant VMT impact if the project VMT per capita is greater than 14.1.

As recommended in the TIA Guidelines, the Fresno COG ABM was used for the project VMT analysis. The model inputs were updated with the project land uses to calculate project VMT. The project VMT was calculated from a Fresno COG ABM model run as described in the following sections.

### 2.1.2 Project Traffic Analysis Zone Update

The first step in preparation of this analysis was to update the traffic analysis zones (TAZs) in the model that include the project area. The Fresno COG ABM includes the ability to add or split zones. In order to isolate the project VMT, a new zone was created in the model. The project households were included in the newly created zone for modeling purposes. No project-specific network modifications were required for the model run. A model run was conducted for the existing/base scenario with updated model inputs. The outputs from this updated model run were used to calculate the project VMT per capita.

### 2.1.3 Model Runs and Project Vehicle Miles Traveled Estimation

A model run was conducted for this updated model upon completion of the socioeconomic data update. The outputs from this updated model run were used to calculate the project VMT per capita.

## 2.2 PROJECT VEHICLE MILES TRAVELED ANALYSIS

Table 2.A summarizes the regional threshold and project VMT per capita. As shown in Table 2.A, the project VMT per capita is 14.9 which is 5.5 percent higher than the City's VMT per capita threshold. Therefore, based on the TIA Guidelines, the project will have a significant VMT impact.

Detailed VMT calculation for the project is included in Appendix B.

## 2.3 VMT MITIGATION MEASURES

When a lead agency identifies a significant CEQA impact, the agency must identify feasible mitigation measures in order to avoid or substantially reduce that impact. VMT impacts can be mitigated through more behavioral changes. Enforcement of mitigation measures will be subject to the mitigation monitoring requirements under CEQA, as well as the regular police powers of the agency. These measures can also be incorporated as a part of plans, policies, regulations, or project designs.

As previously noted, the project is consistent with the City's General Plan. While preparation of the General Plan, an Environmental Impact Report was prepared, along with a statement of Overriding consideration, that discussed the potential environmental impacts and required mitigation measures to be implemented/followed by all future projects that are consistent with the General Plan. The project will be conditioned to implement and follow these measures. Therefore, though project will have a significant and unavoidable transportation impact under CEQA, no further mitigation measure would be required for the project.

## 2.4 LIST OF CHAPTER 2.0 TABLES

- Table 2.A: Existing Regional and Project VMT per Capita

## Table 2.A: Existing Regional and Project VMT per Capita

| Regional Threshold (Fresno County)[1] | Project | Difference | Percentage Difference |
|---|---|---|---|
| 14.1 | 14.9 | 0.8 | 5.5% |

Source: Fresno Council of Governments' Activity-Based Model.

[1] The Fresno County VMT per capita was obtained from the *Transportation Impact Guidelines, City of Clovis* (September 15, 2022).

VMT = vehicle miles traveled

# 3.0 LOCAL TRANSPORTATION ANALYSIS METHODOLOGY

## 3.1 LEVEL OF SERVICE DEFINITIONS

LOS can be characterized for the whole intersection, each intersection approach, and by each lane group. Control delay alone is used to characterize LOS for the entire intersection. Control delay quantifies the increase in travel time due to the traffic signal control and is a surrogate measure of driver discomfort and fuel consumption.

A complete description of the meaning of LOS can be found in Transportation Research Board Special Report 209, *Highway Capacity Manual* (HCM). The HCM establishes LOS A through F for intersections. A description of LOS for signalized and unsignalized intersections is summarized in Table 3.A.

Table 3.B shows the LOS criteria for unsignalized and signalized intersections. For all study area intersections, the *Highway Capacity Manual 7th Edition* (HCM 7) analysis methodologies were used to determine intersection LOS. Intersection LOS was calculated using the Synchro 12 software, which uses the HCM 7 methodologies.

## 3.2 LEVEL OF SERVICE PROCEDURES AND STANDARDS

Study intersections analyzed in this report are completely under the jurisdiction of the City of Clovis or lie at the borders of Clovis and Fresno. The City of Clovis considers LOS D as the LOS standard for study intersections under near-term conditions, unless a finding of overriding consideration was adopted in the City's General Plan EIR. The same criterion holds for cumulative conditions. The City's TIA Guidelines do not define an LOS standard under Existing Plus Project conditions. For the purpose of this analysis, an LOS standard of D has been considered for intersections under Existing Plus Project conditions. The City considers the following operational deficiency criteria for study intersections:

- **Signalized Intersections**
  - If the project triggers a signalized intersection operating at an acceptable LOS to operate at an unacceptable LOS; OR
  - If the project increases the average delay for a signalized intersection that is already operating at an unacceptable LOS.
- **Unsignalized Intersections**
  - If the project triggers an unsignalized intersection operating at acceptable LOS to operate at unacceptable LOS (from E or better to F) and meet the signal warrants criteria; OR
  - If the project increases the applicable delay for an unsignalized study intersection that is already operating at unacceptable LOS and meets the signal warrant criteria.

Per the City of Fresno *Traffic Impact Study Report Guidelines,* updated February 2009, LOS D is considered the LOS standard for study intersections under near-term conditions. The same criterion

holds for long-term conditions. The City's TIA Guidelines do not define an LOS standard under Existing Plus Project conditions.

It should be noted that all City of Fresno study intersections are located within the City of Fresno Traffic Impact Zone (TIZ) III. Per the City of Fresno's General Plan, all intersections within TIZ III should maintain a peak-hour LOS standard of D or better. Therefore, an LOS standard of D has been considered for intersections shared with Fresno for all analysis conditions. The City of Fresno considers the following operational deficiency criteria for study intersections:

- An operational deficiency is created if the addition of the project traffic results in any one of the following:
    - Causes the intersection LOS to change from acceptable to unacceptable levels; OR
    - Causes the intersection LOS to change from an unacceptable LOS (LOS E) to LOS F; OR
    - Increases the average delay at a study intersection that is already operating at an unacceptable LOS.

## 3.3 LIST OF CHAPTER 3.0 TABLES

- Table 3.A: Intersection Level of Service Definitions
- Table 3.B: Level of Service Criteria for Unsignalized and Signalized Intersections

## Table 3.A: Intersection Level of Service Definitions

| LOS | Description |
|---|---|
| A | Traffic operations with a control delay of 10 seconds per vehicle or less and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is exceptionally favorable or the cycle length is very short. If LOS A is the result of favorable progression, most vehicles arrive during the green indication and travel through the intersection without stopping. |
| B | Traffic operations with control delay between 10 seconds per vehicle and 20 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is highly favorable or the cycle length is short. More vehicles stop than with LOS A. |
| C | Traffic operations with control delay between 20 and 35 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when progression is favorable or the cycle length is moderate. Individual cycle failures (i.e., one or more queued vehicles are not able to depart as a result of the insufficient capacity during the cycle) may begin to appear at this level. The number of vehicles stopping is significant, although many vehicles still pass through the intersection without stopping. |
| D | Traffic operations with control delay between 35 and 55 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is high and either progression is ineffective or the cycle length is long. Many vehicles stop and individual cycle failures are noticeable. |
| E | Traffic operations with control delay between 55 and 80 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when volume-to-capacity ratio is high, progression is unfavorable, and the cycle length is long. Individual cycle failures are frequent. |
| F | Traffic operations with control delay exceeding 80 seconds per vehicle or a volume-to-capacity ratio greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is very high, progression is very poor, and the cycle length is long. Most cycles fail to clear the queue. |

Source: Highway Capacity Manual (7th Edition).

## Table 3.B: Level of Service Criteria for Unsignalized and Signalized Intersections

| Level of Service | Unsignalized Intersection Average Delay per Vehicle (sec) | Signalized Intersection Average Delay per Vehicle (sec) |
|---|---|---|
| A | ≤ 10 | ≤ 10 |
| B | > 10 and ≤ 15 | > 10 and ≤ 20 |
| C | > 15 and ≤ 25 | > 20 and ≤ 35 |
| D | > 25 and ≤ 35 | > 35 and ≤ 55 |
| E | > 35 and ≤ 50 | > 55 and ≤ 80 |
| F | > 50 | > 80 |

Source: Highway Capacity Manual (7th Edition).
sec = seconds

# 4.0 CIRCULATION NETWORK SETTING

## 4.1 EXISTING CIRCULATION NETWORK

The project study area includes the following major roadways as classified based on the roadway classification provided in the Circulation Element of the City's General Plan. Figure 4-1 summarizes the classifications of major roadways within the study area. Following is a brief description of these roadways:

- **Willow Avenue:** Willow Avenue is designated as an Arterial in the City's General Plan. Between Behymer Avenue and Shepherd Avenue, Willow Avenue is a six-lane, divided Arterial with a raised median. There are bicycle lanes along both directions of this segment. However, there is no provision for on-street parking.

- **Minnewawa Avenue:** Within the study area, Minnewawa Avenue is designated as an Arterial between Behymer Avenue and Shepherd Avenue in the City's General Plan. Minnewawa Avenue is a two-lane, undivided road. There are bicycle lanes along both directions of this segment. However, there is no provision for on-street parking.

- **Behymer Avenue:** Within the study area, Behymer Avenue is designated as an Arterial between Willow Avenue and Minnewawa Avenue in the City's General Plan. Between Willow Avenue and Minnewawa Avenue, Behymer Avenue is a two-lane, undivided road. There are no bicycle facilities along both directions of this segment and no provision for on-street parking.

- **Shepherd Avenue:** Within the study area, Shepherd Avenue is designated as an Arterial between Willow Avenue and Minnewawa Avenue in the City's General Plan. Shepherd Avenue is a three-lane, divided road with a raised median. There are bicycle lanes along both directions of the segment. There is no provision for on-street parking along any of these segments.

- **Perrin Avenue:** Within the study area, Perrin Avenue is designated as a Collector in the City's General Plan and is a two-lane, undivided roadway with no bicycle lanes along both directions of these segments and there is no provision for on-street parking.

Figure 4-2 illustrates the existing plus project study intersection geometrics and traffic control, and Figure 4-3 illustrates the cumulative plus project study intersection geometrics and traffic control.

## 4.2 BICYCLES, PEDESTRIANS, AND TRANSIT

### 4.2.1 Bicycle Network

The vision of the City of Clovis *Active Transportation Plan (ATP)*, September 2023, is a "city with a complete and connected network of trails, walkways, and bikeways that provides convenient and intuitive connections to key destinations and supports travel within and between neighborhoods. The network improves quality of life by encouraging walking and bicycling for transportation and recreation." The ATP identifies different strategies to improve safety and accessibility for active

modes of transportation such as walking and biking. There are four different types of existing bicycle facilities in the City:

- Class I (Trails)
- Class II (Bicycle Lanes)
- Class II (Buffered Bicycle Lanes)
- Class III (Bicycle Routes)

One of the long-term visions of the City includes upgrading existing or recommended Class II Bicycle Lanes and Buffered Bicycle Lanes to Class IV Separated Bicycle Lanes.

Figures 4-4 illustrate the existing and proposed bicycle facilities within the City. At present, Class II bicycle lanes exist along Willow Avenue, Minnewawa Avenue and Shepherd Avenue within the study area. However, as shown in Figure 4-4, Class II bicycle facilities are proposed along Behymer Avenue and Peach Avenue roadways within the study.

### 4.2.2 Pedestrian Network

The City has an extensive pedestrian network, with sidewalks along most of the major roads. However, since a portion of the study area falls within recently incorporated areas of the City, sidewalks are not present because they were previously developed as per unincorporated Fresno County design guidelines. Figure 4-5 illustrates the existing sidewalk facilities within Clovis.

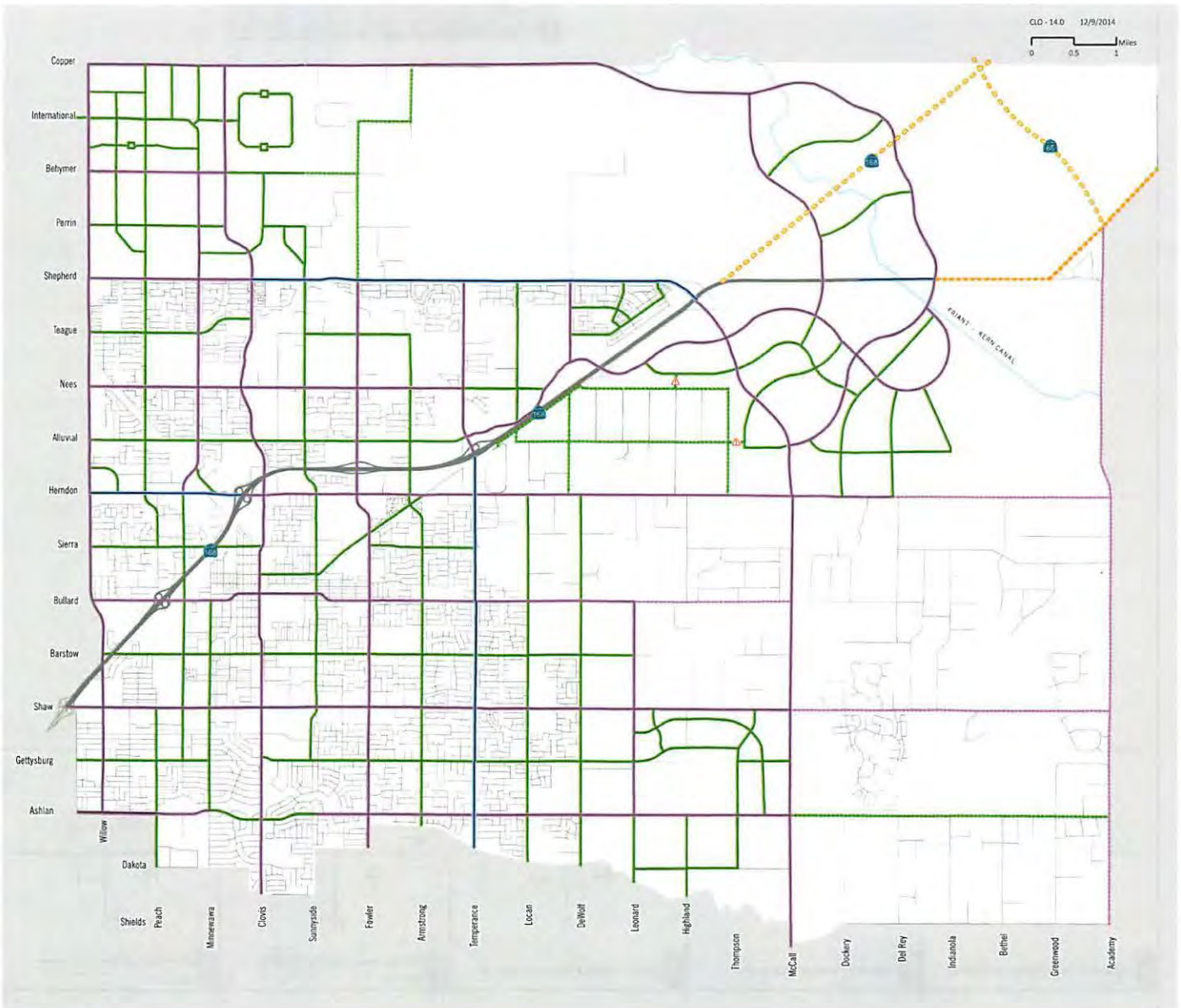
The City's ATP has identified improvements to the pedestrian network based on a citywide sidewalk network gap analysis. Additionally, several potential locations have been identified to install mid-block crossings to improve trail connectivity throughout Clovis. Figure 4-6 illustrates the existing and proposed trails and paseos in Clovis. As shown on Figure 4-6, Clovis Old Town Trail exists on the southbound direction of Willow Avenue within the study area. However, additional trails are being proposed in the study area such as along Shepherd Avenue and Minnewawa Avenue.

### 4.2.3 Transit Network

Fresno Area Express (FAX) Route 03 operates within the study area along Willow Avenue, 7 days a week. The route connects communities in Fresno to the different campuses of Clovis Community College. In addition to fixed route services, Round Up is the Clovis paratransit service for disabled City residents. Round Up transit vehicles are all accessible in accordance with the Americans with Disabilities Act (ADA) standards. Figure 4-7 illustrates the existing transit system within Clovis.

## 4.3 LIST OF CHAPTER 4.0 FIGURES

- Figure 4-1: City of Clovis Roadway Classification
- Figure 4-2: Existing Plus Project Study Intersection Geometrics and Traffic Control
- Figure 4-3: Cumulative Plus Project Study Intersection Geometrics and Traffic Control
- Figure 4-4: City of Clovis Existing and Proposed Bikeways
- Figure 4-5: City of Clovis Existing Pedestrian Infrastructure
- Figure 4-6: City of Clovis Existing and Proposed Trails and Paseos
- Figure 4-7: City of Clovis Transit System




LSA

FIGURE 4-1

LEGEND

- Freeway
- Conceptual 2-4 Lane State Highway
- State Highway
- Expressway
- Arterial
- Rural Arterial
- Collector
- Rural Collector
- Local
- Emergency Access Only

N

SOURCE: Clovis General Plan, August 2014

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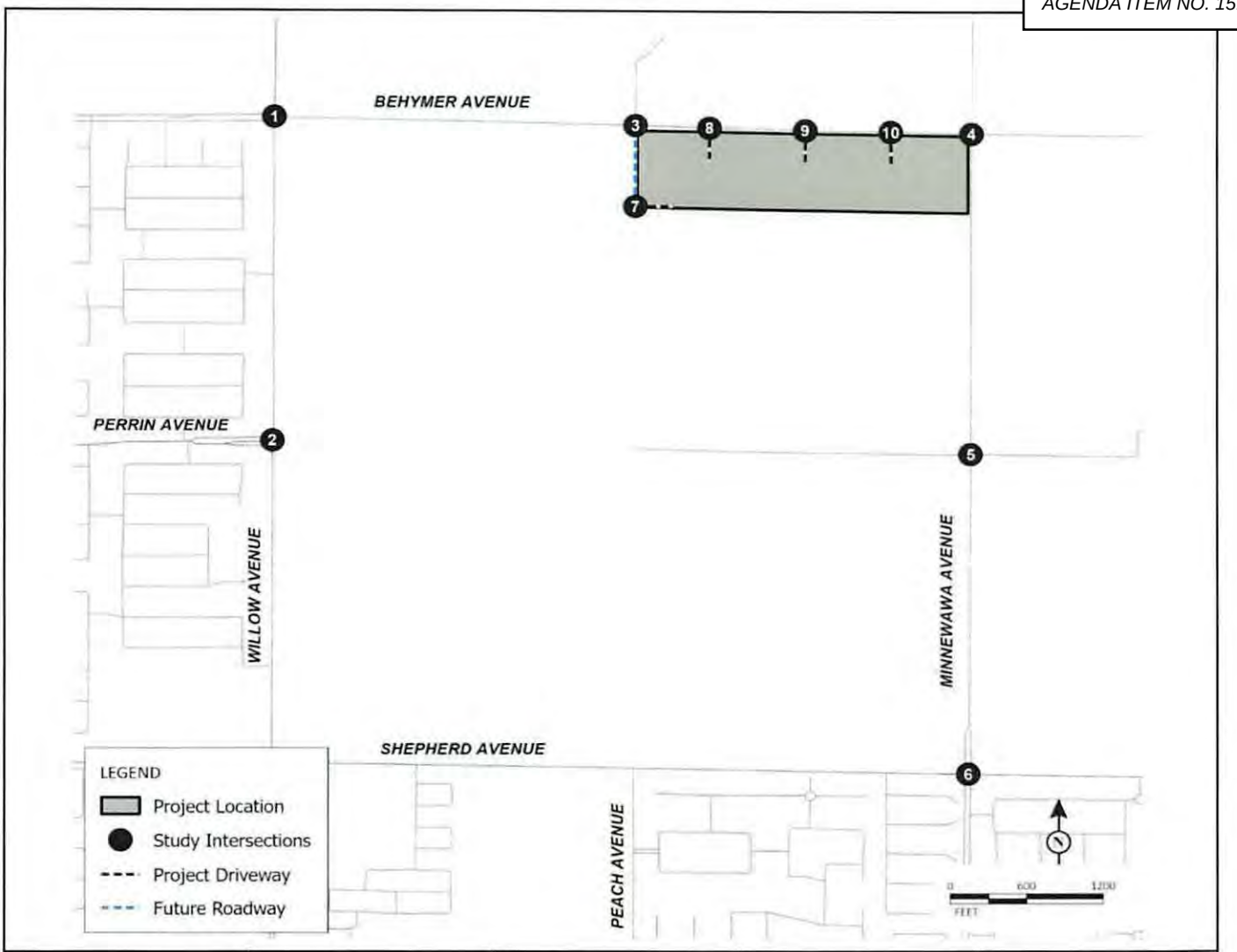
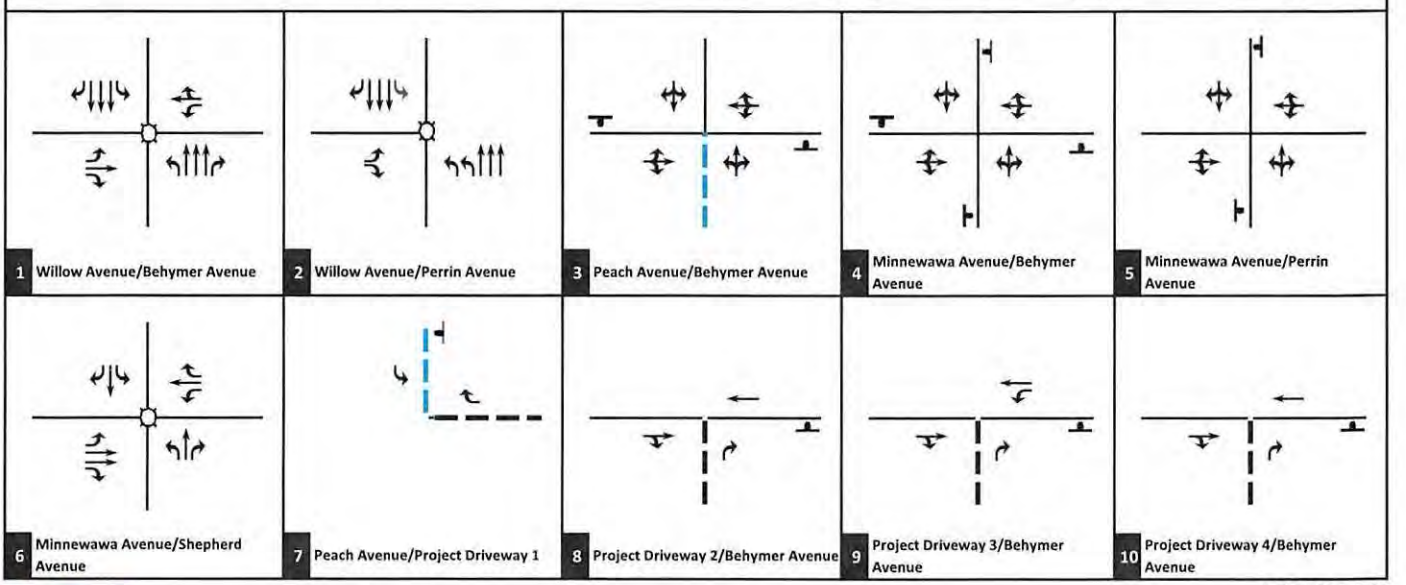
*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

City of Clovis Roadway Classifi




LSA

FIGURE 4-2

Legend

Signal
Stop Sign
Project Driveway
Future Driveway
U-Turn Movement

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Existing Plus Project Study Intersection Geometrics and Traffic Control

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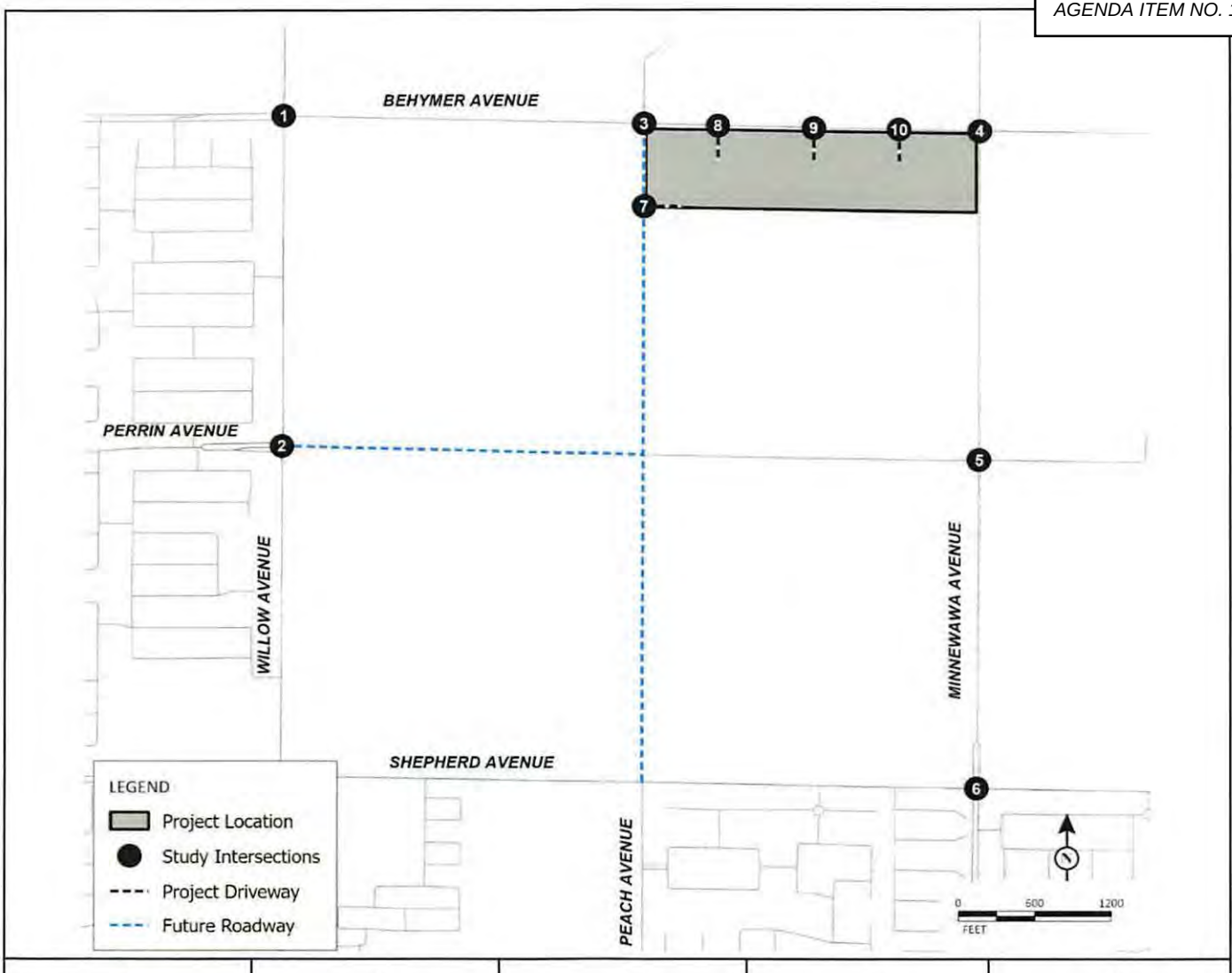


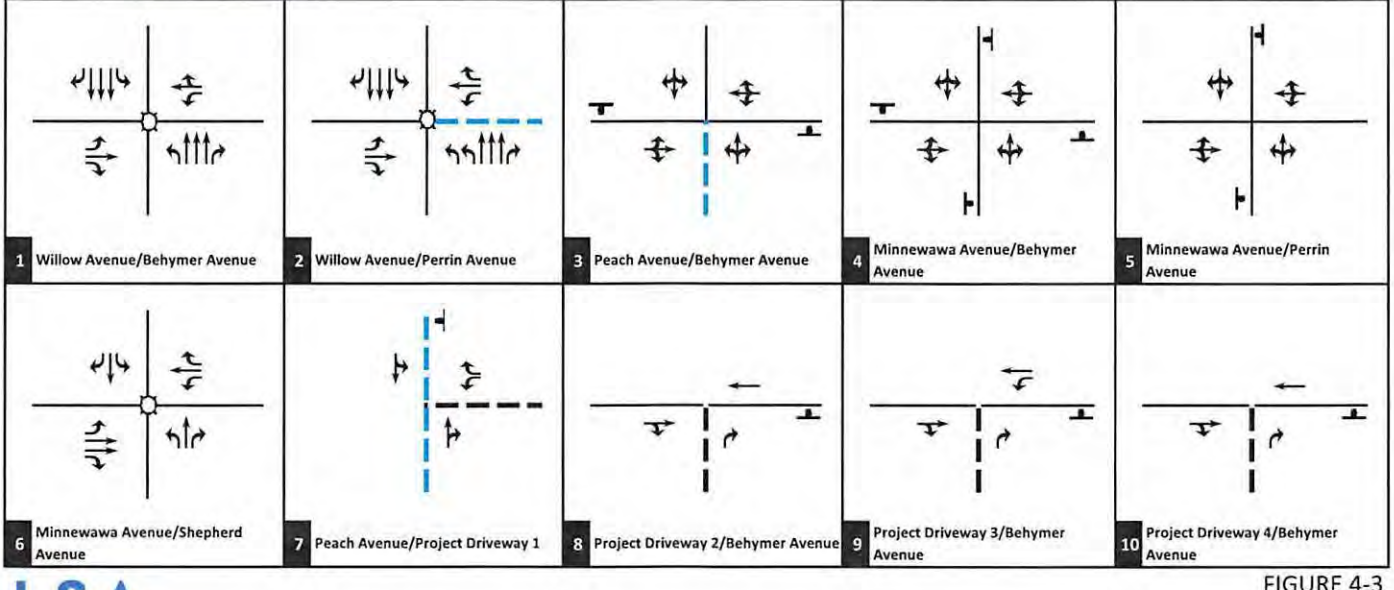


LSA

FIGURE 4-3

Legend

Signal
Stop Sign
Project Driveway
Future Driveway

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Cumulative Plus Project Study Intersection Geometrics and Traffic Control

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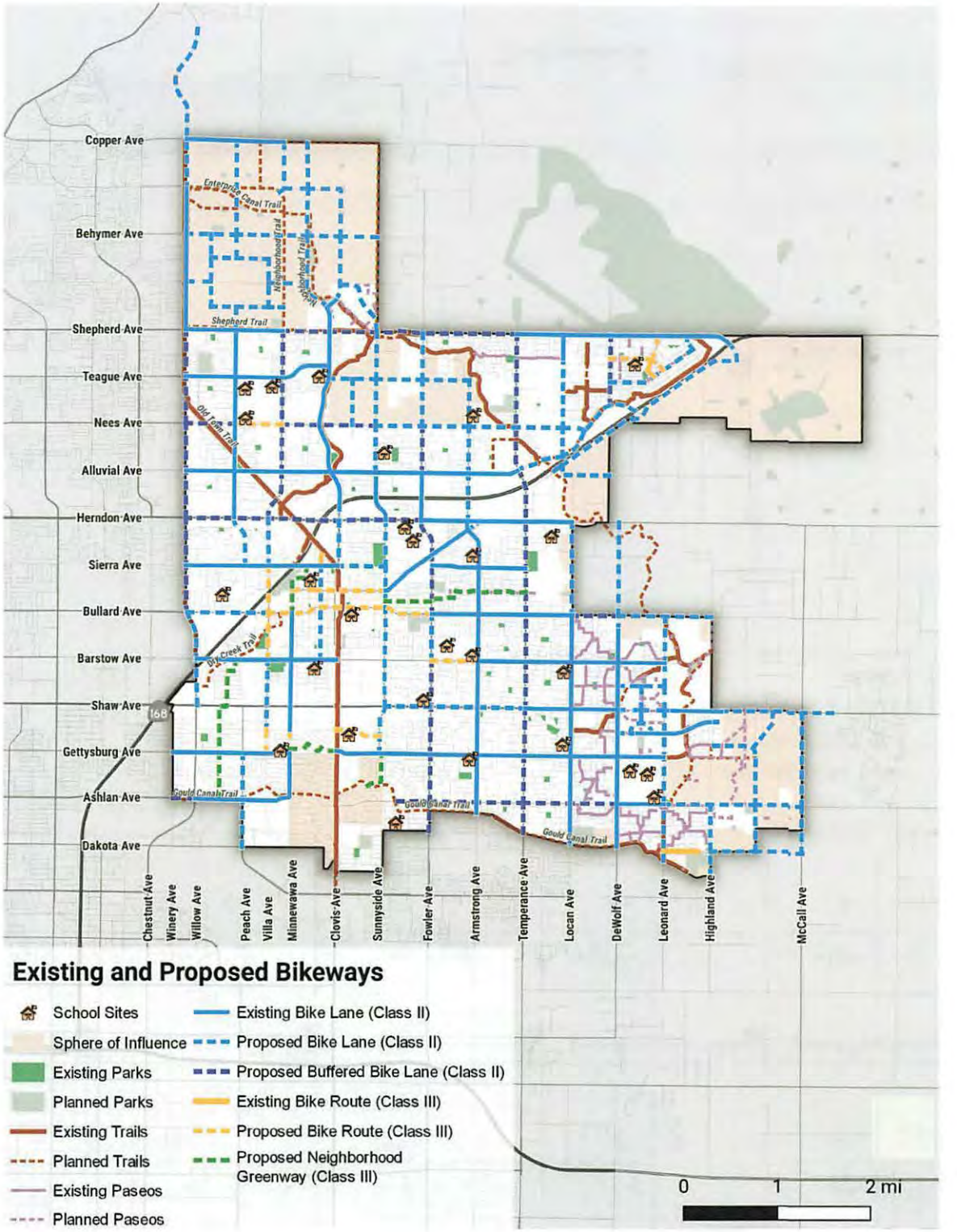


LSA

FIGURE 4-4

SOURCE: City of Clovis Active Transportation Plan, September 2023.

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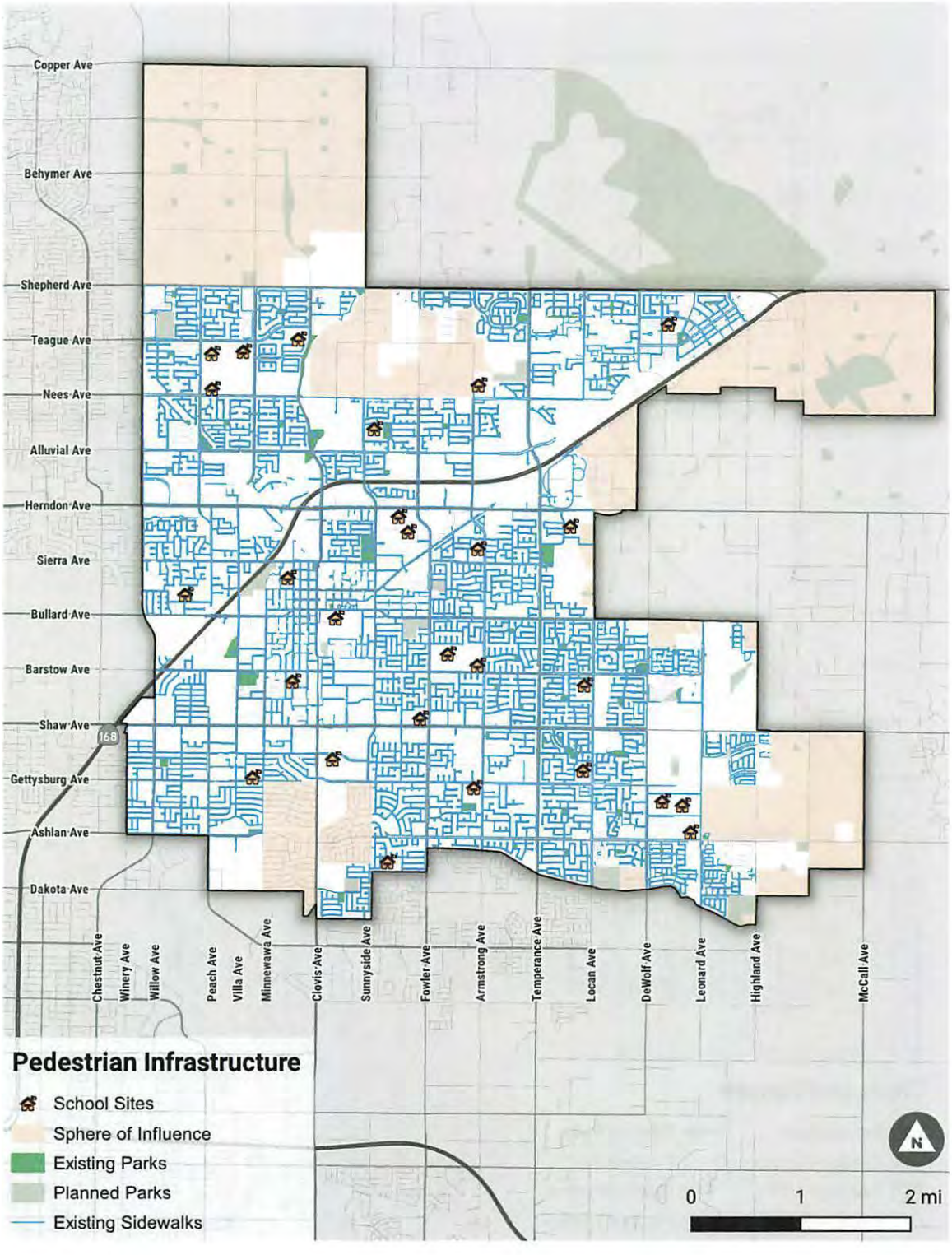


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FIGURE 4-5

N

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

City of Clovis Existing Pedestrian Infrastru

SOURCE: City of Clovis Active Transportation Plan, September 2023.
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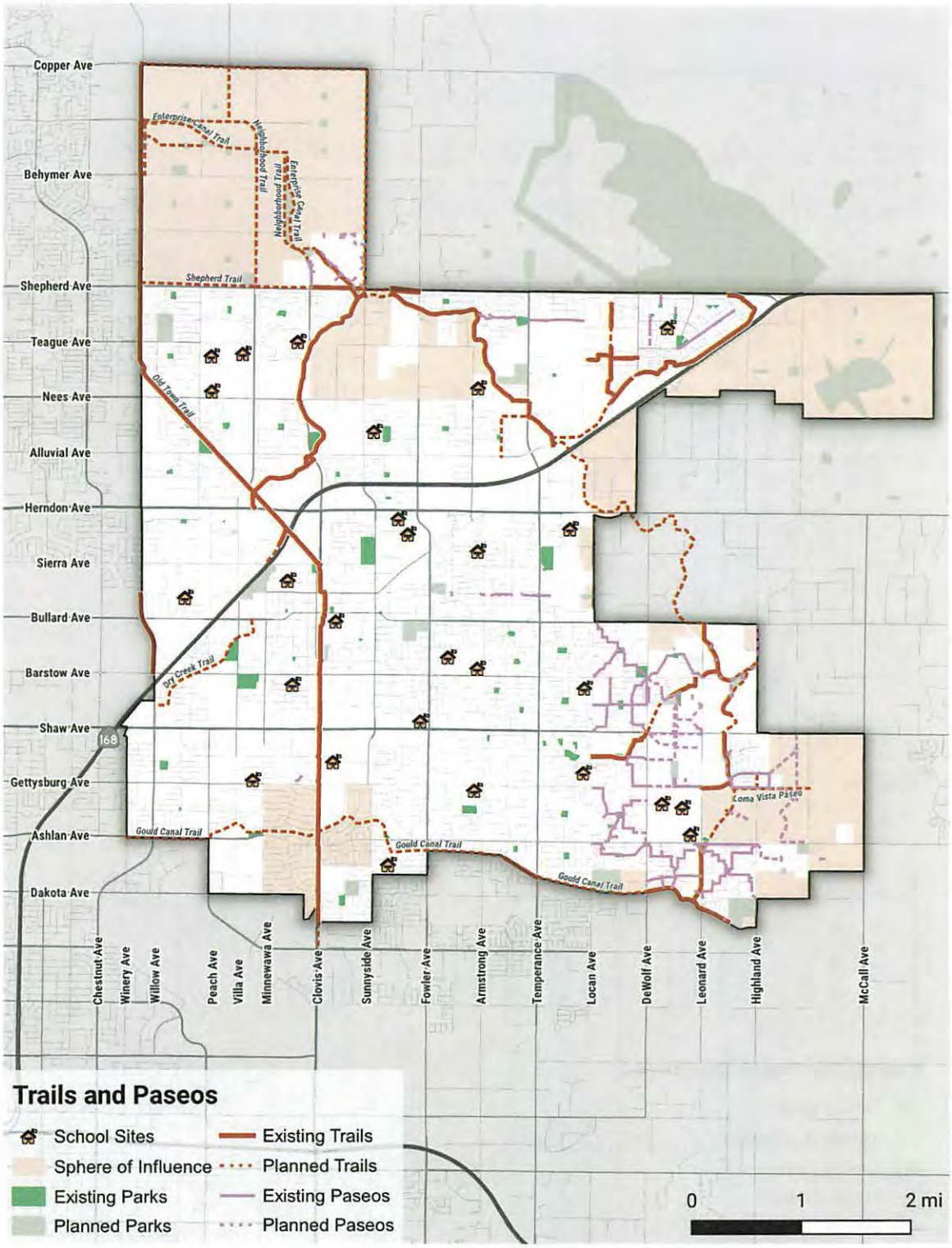


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FIGURE 4-6

N

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

SOURCE: City of Clovis Active Transportation Plan, September 2023.
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City of Clovis Existing and Proposed Trails and P

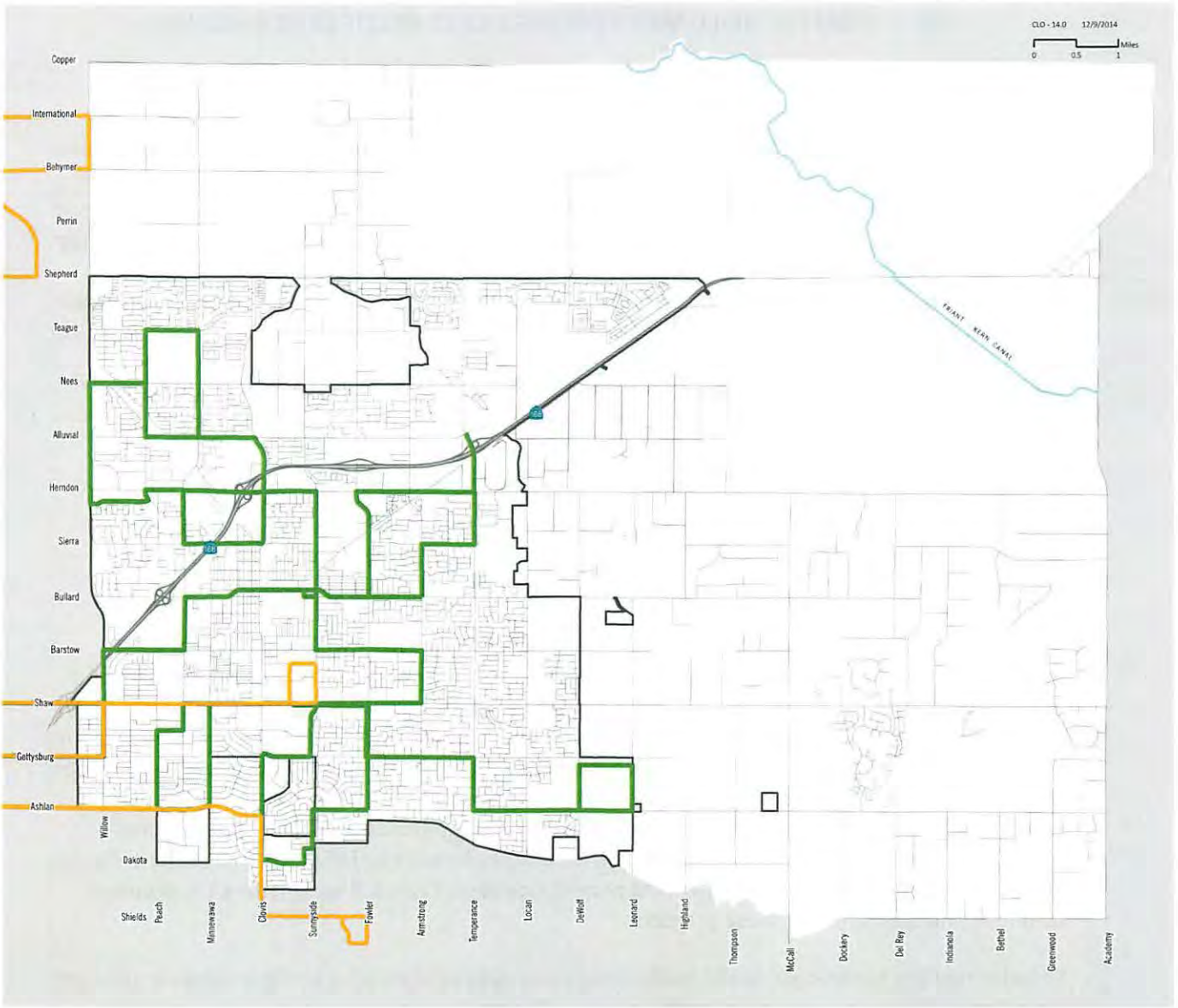


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FIGURE 4-7

LEGEND

- FAX Routes
- Clovis Stageline Route
- City Boundary

N

SOURCE: Clovis General Plan, August 2014

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# 5.0 TRAFFIC VOLUMES FOR WITHOUT PROJECT SCENARIOS

## 5.1 EXISTING TRAFFIC VOLUMES

Traffic volumes for existing conditions were developed using existing count data collected by Counts Unlimited in May 2024 at study intersections, when schools were in session. Vehicle classification counts were collected at selected study area intersections. Truck percentages for every approach at these intersections were obtained from the vehicle classification counts. As for the remaining study intersections without classification counts, truck percentages for the various approaches were applied based on the truck percentages at the adjacent intersections. This truck percentages were applied in Synchro for intersection LOS analysis.

Figure 5-1 illustrates peak-hour traffic volumes at study intersections under existing conditions. Detailed count sheets are included in Appendix C.

## 5.2 NEAR-TERM (2028) WITHOUT PROJECT TRAFFIC VOLUMES

Traffic volumes under the Near-term (2028) and Cumulative (2046) were developed using the Fresno Council of Governments' (COG's) Activity-Based Model (ABM) growth projections. The current base year for Fresno COG ABM is 2019, while the forecast year is 2046.

The forecast year model socioeconomic data were evaluated to check whether it includes information regarding the approved and pending projects in the region. Information concerning approved and pending projects within the vicinity of the study area were obtained from the City of Clovis, City of Fresno, and County of Fresno, and were compared with the future year socioeconomic data for their respective TAZ. In case it was determined that the respective project was not included, the project information was manually added into the model for generating future year traffic volumes. As such, the updated model included all potential approved and pending projects as provided by the City of Clovis and adjacent jurisdictions to be built by future year conditions. Figure 5-2 illustrates these approved and pending project locations. Table 5.A summarizes the proposed land uses and quantities for these projects.

Growth from the model base to the model future was applied to existing traffic volumes to develop Near-Term (2028) without project traffic volumes. The methodology used to develop cumulative traffic volumes at all study intersections is consistent with the National Cooperative Highway Research Program (NCHRP) and Fresno COG's procedures for post-processing of modeled traffic volumes. As such, Near-Term (2028) without project traffic volumes were developed by interpolating between Existing (2024) and Cumulative (2046) traffic volumes. Figure 5-3 illustrates the peak-hour traffic volumes at study intersections under near-term without project conditions.

It should be noted that volume development for this scenario have been conducted as an intermediate step for the development of traffic volumes for the Near-Term Plus Project Conditions. As such, as recommended in the City's TIA Guidelines and approved during the scoping agreement process, this scenario has not been analyzed in the LTA.

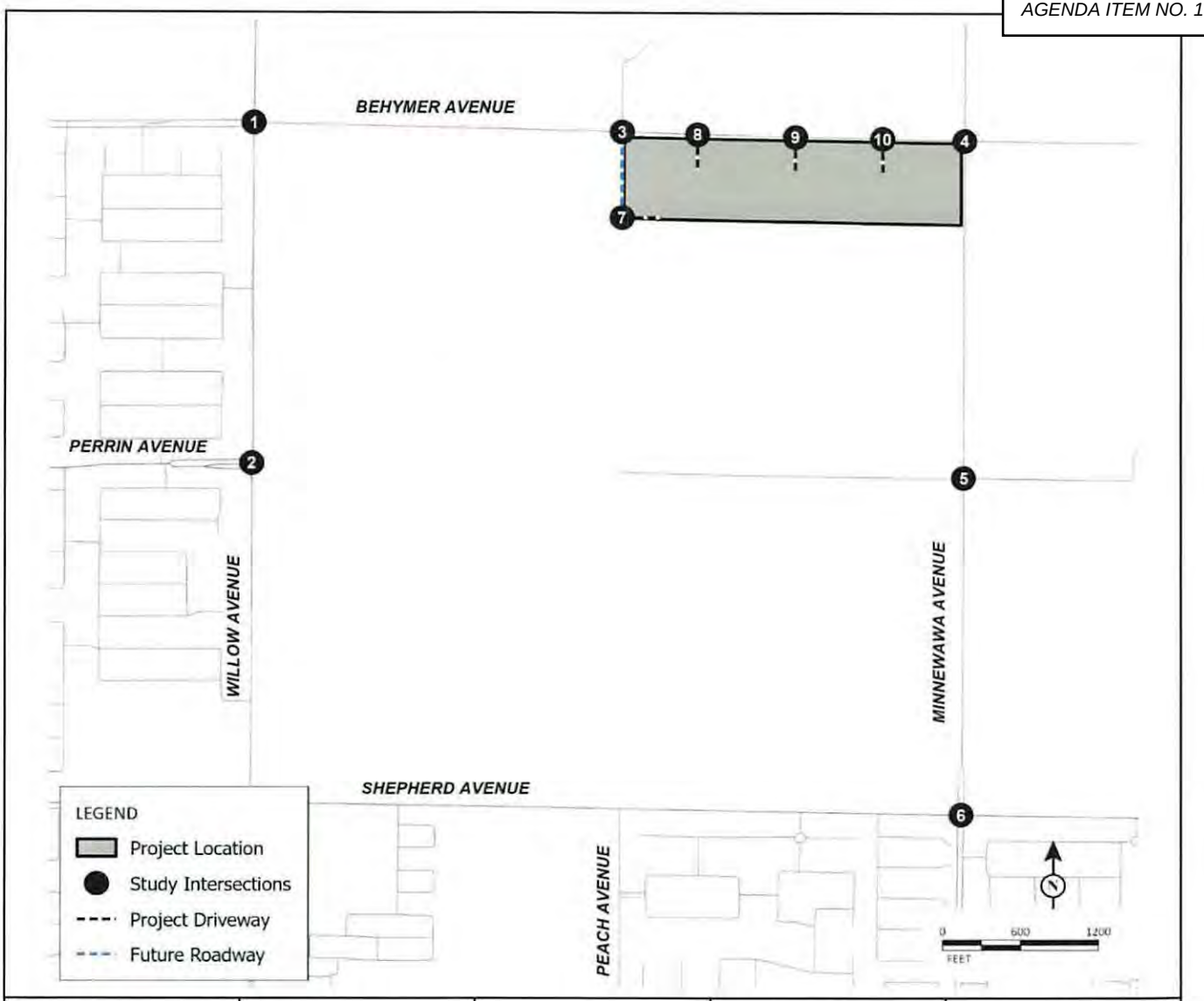
## 5.3 CUMULATIVE (2046) WITHOUT PROJECT TRAFFIC VOLUMES

As previously mentioned, traffic volumes for cumulative conditions were developed using the Fresno COG ABM. The methodology used to develop cumulative traffic volumes at all study intersections is consistent with the National Cooperative Highway Research Program (NCHRP) and Fresno COG's procedures for post-processing of modeled traffic volumes. Figure 5-4 illustrates the peak-hour traffic volumes at study intersections under cumulative without project conditions.

Detailed volume development worksheets are included in Appendix D.

## 5.4 LIST OF CHAPTER 5.0 FIGURES AND TABLES

- Figure 5-1: Existing Peak-Hour Traffic Volumes
- Figure 5-2: Approved and Pending Project Locations
- Figure 5-3: Near-Term (2028) without Project Peak-Hour Traffic Volumes
- Figure 5-4: Cumulative (2046) without Project Peak-Hour Traffic Volumes
- Table 5.A: Approved and Pending Projects



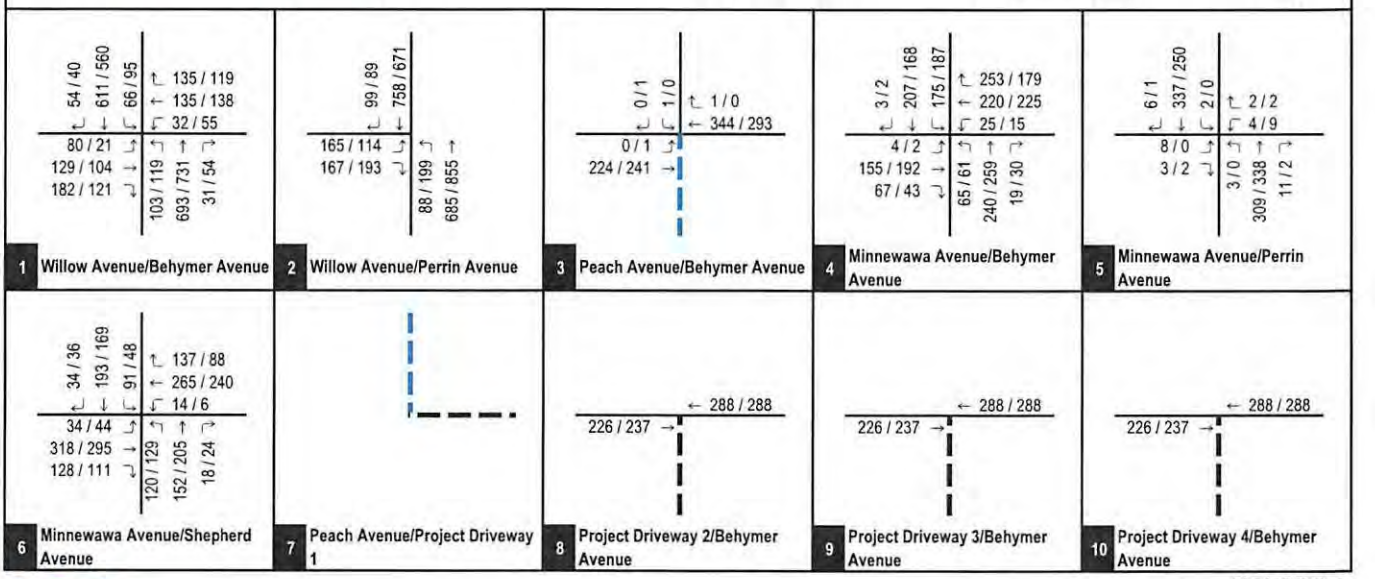




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FIGURE 5-1

XXX / YYY
AM / PM Peak Hour Traffic Volumes

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Existing Peak Hour Traffic Volumes

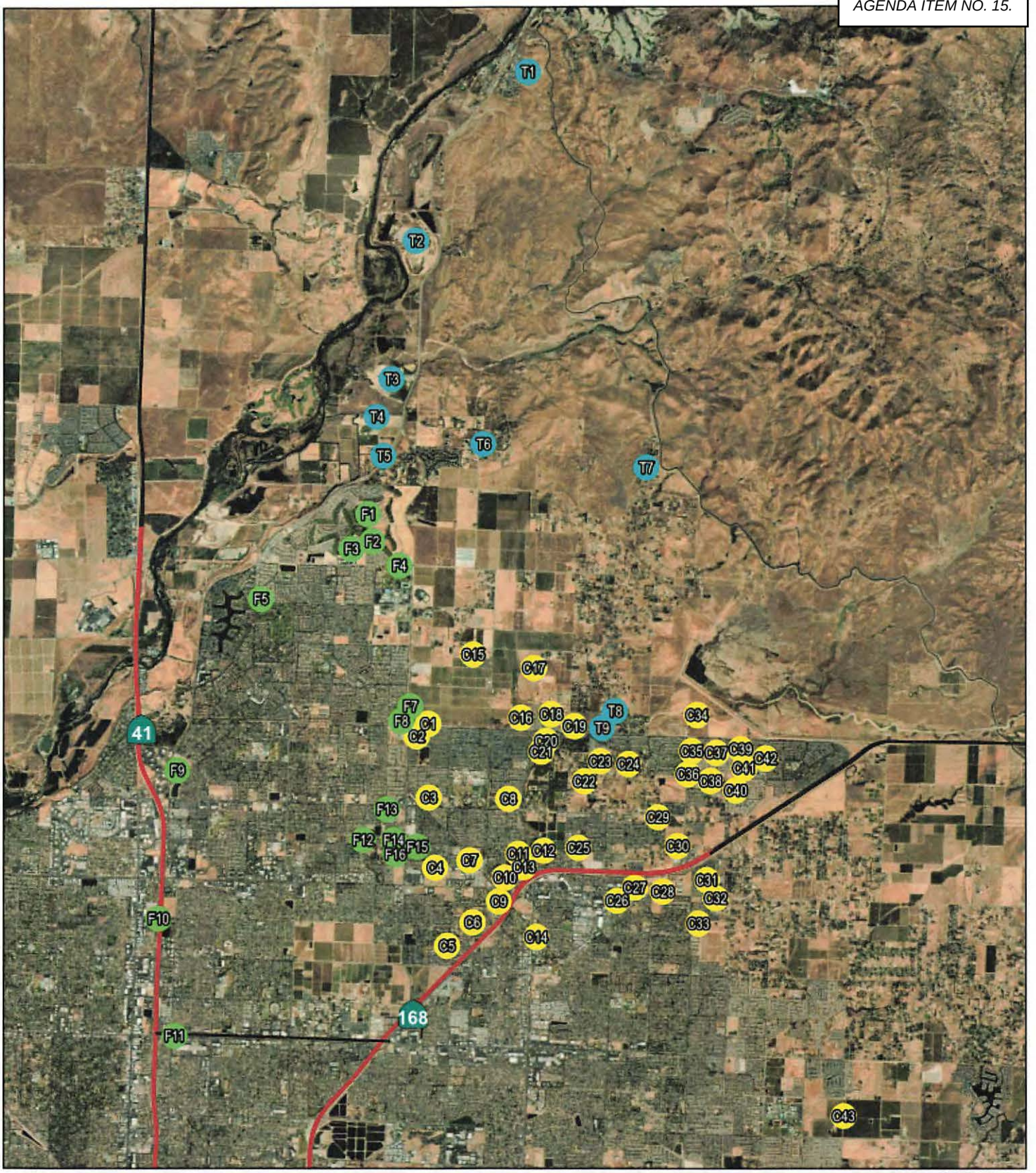


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FIGURE 5-2

SOURCE: Google Earth 2021; ESRI Streetmap, 2021

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*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Approved and Pending Project Lo

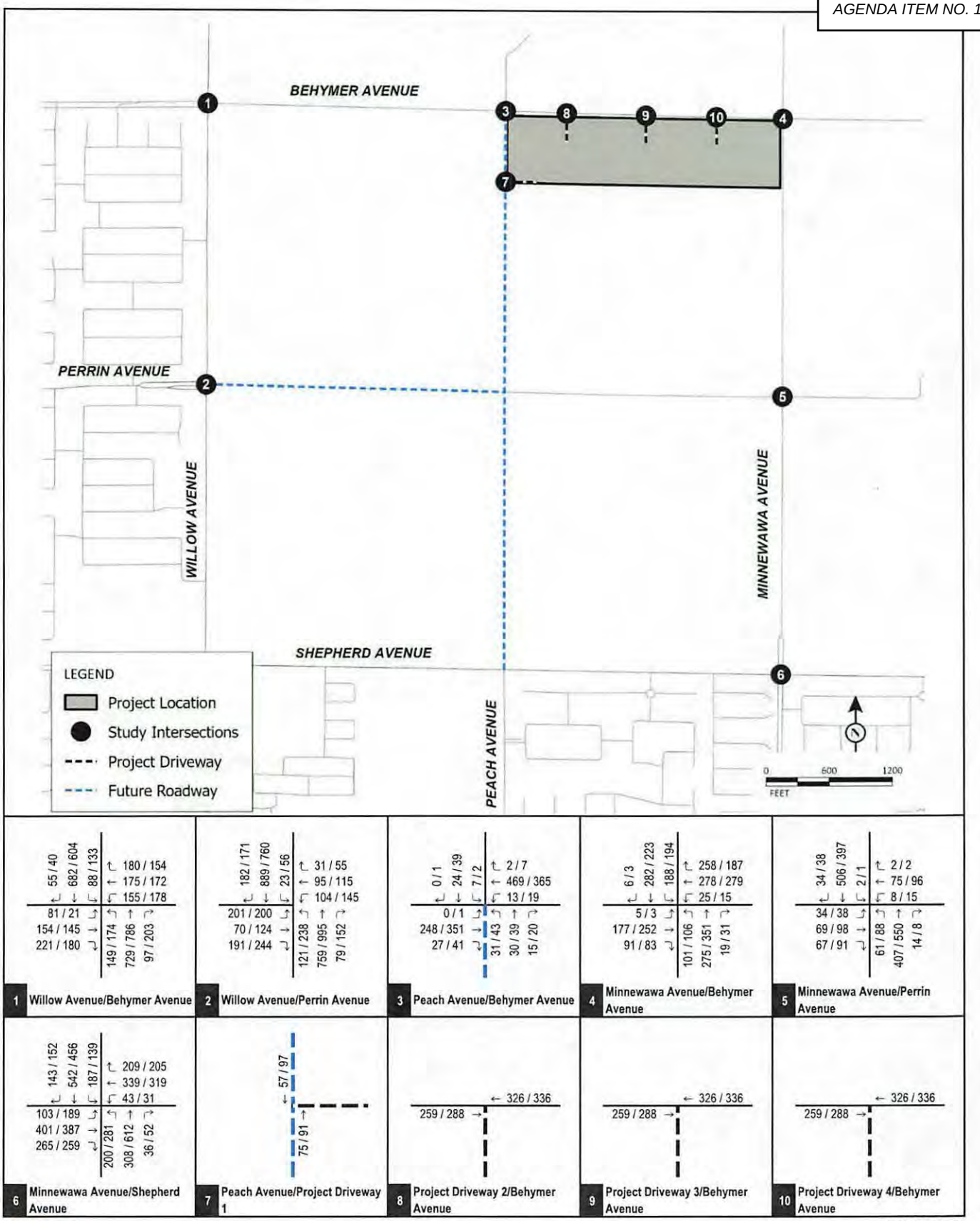


FIGURE 5-3

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XXX / YYY
AM / PM Peak Hour Traffic Volumes

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Near-Term (2028) without Project Peak Hour Traffic Volum

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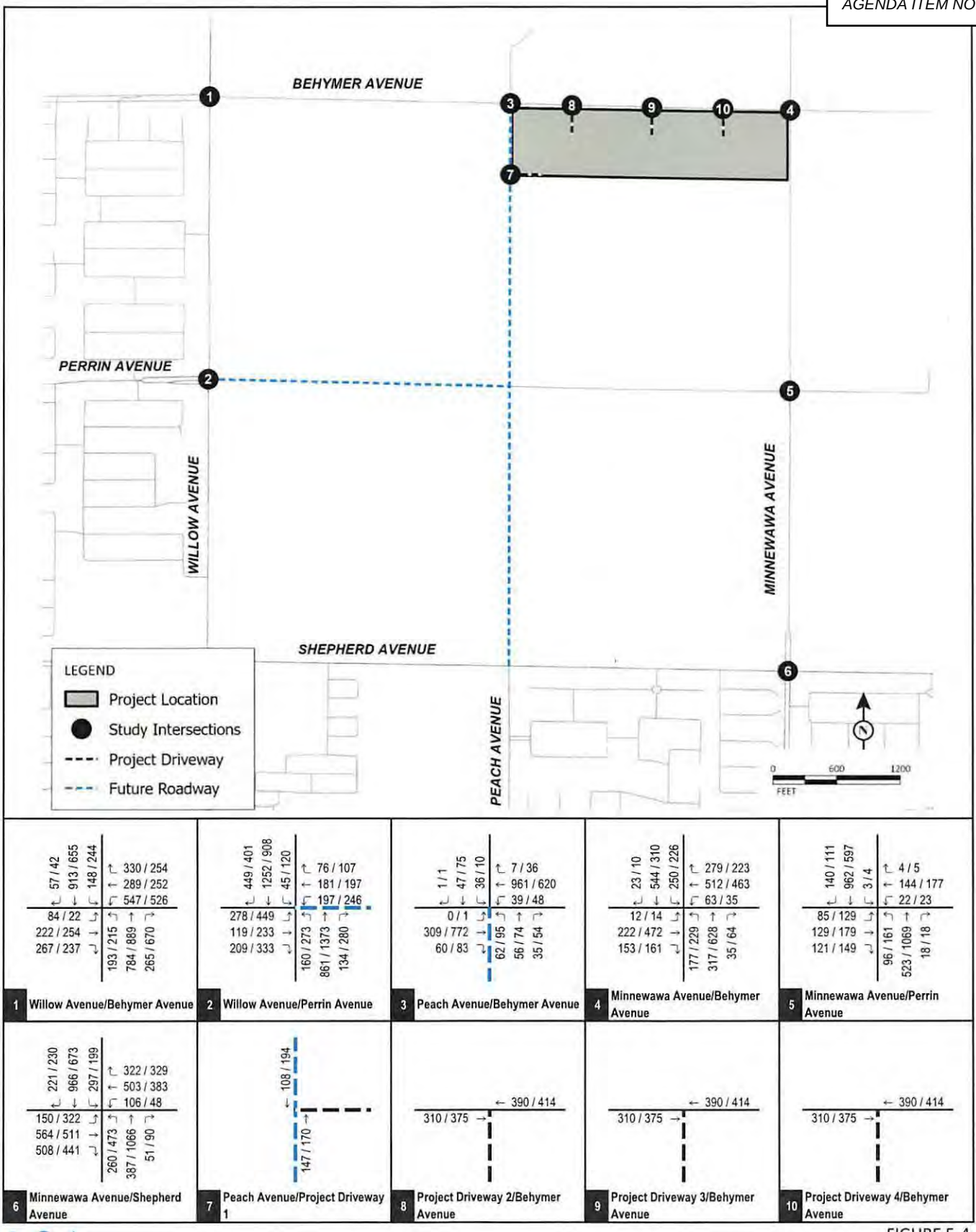


FIGURE 5-4

LSA

XXXX / YYYY
AM / PM Peak Hour Traffic Volumes

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Cumulative (2046) without Project Peak Hour Traffic Volume

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**Table 5.A - Approved and Pending Projects**

| ID | Jurisdiction | Project Name/Reference | Address/Location | Project Description | Project Units/Area/Other |
|---|---|---|---|---|---|
| C1 | City of Clovis | SPR 2021-09 | 1958 N Willow Avenue | Commercial Expansion | 24.287 TSF |
| C2 | City of Clovis | MFDR 2021-02 | SEC of Willow Ave/Shepherd Ave | Multi-Family Dwelling Units | 255 MFDU |
| C3 | City of Clovis | TM 6348 | NEC of Timmy Ave/Ness Ave | Single Family Development | 10 SFDU |
| C4 | City of Clovis | TM 6262 | NWC of Peach Ave/Herndon Ave | Single Family Development | 185 SFDU |
| C5 | City of Clovis | TM 6125 | NWC of Peach Ave/Stuart Ave | Single Family Development | 25 SFDU |
| C6 | City of Clovis | PM 2022-002 | NWC of Villa Ave/Sierra Ave | Single Family Development | 4 SFDU |
| C7 | City of Clovis | SPR 2015-002 | North of Spruce Ave and West of Halifax Ave | Office/Warehouse | 37.68 TSF |
| C8 | City of Clovis | The Well Community Church | NWC of Clovis Ave/Nees Ave | Church Expansion | 80 TSF |
| C9 | City of Clovis | SPR 2008-016A2 | NEC of Fairfax Ave/Palo Alto Ave | Office/Warehouse | 4.488 TSF |
| C10 | City of Clovis | SPR 2021-014 | 520 Park Creek | Warehouse | 9.897 TSF |
| C11 | City of Clovis | SPR 2022-005 | NEC of Pollasky Ave/Park Creek Dr | Office/Warehouse | 19 TSF |
| C12 | City of Clovis | SPR 2022-002 | NEC of Pollasky Ave/Park Creek Dr | Office/Warehouse | 14.218 TSF |
| C13 | City of Clovis | 603 & 623 Pollasky Avenue | NEC of Pollasky Ave/Park Creek Dr | Office/Warehouse | 13.641 TSF |
| C14 | City of Clovis | Landmark Common Civic Center North (CIP 15-03) | NEC of Clovis Ave/3rd Street | Mixed-use development consisting of approximately 67 TSF of community and office uses | 30 TSF Senior Activity Center; 8.766 TSF Transit Center; 30 TSF Library. |
| C15 | City of Clovis | Heritage Grove Specific Plan | North Clovis | Specific Plan | 275 TSF Retail; 50 TSF Commercial/Office; 150 RM Hotel. |
| C16 | City of Clovis | TM 6050 (TM 6328;TM 6329) | NEC of Clovis Ave/Shepherd Ave | Single-Family Dwelling Units | 255 SFDU |
| C17 | City of Clovis | TM 6343 | NEC of Clovis Ave/Shepherd Ave | Single-Family Dwelling Units | 590 SFDU |
| C18 | City of Clovis | TM 6200 (TM6452; TM6292; TM6344;TM6342;TM6406) | On Shepherd Ave, between Clovis Ave and Sunnyside Ave | Single-Family Dwelling Units | 576 SFDU |
| C19 | City of Clovis | TM 6205 - Shepherd North | NEC of Shepherd Ave/Sunnyside Ave | Single-Family Dwelling Units | 605 SFDU |
| C20 | City of Clovis | TM 6263 | South side of Teague Avenue near Purdue Avenue | Single-Family Dwelling Units | 74 SFDU |
| C21 | City of Clovis | TM 6268 | SWC of Clovis Ave and Riordan Ave | Single-Family Dwelling Units | 10 SFDU |
| C22 | City of Clovis | TM 6284 | South side of Teague Avenue near Purdue Ave | Single-Family Dwelling Units | 74 SFDU |
| C23 | City of Clovis | TM 6154 | NWC of Fowler Aveand Teague Aven | Single-Family Dwelling Units | 95 SFDU |
| C24 | City of Clovis | TM 5550 | 1991 Trenton Ave | Single-Family Dwelling Units | 31 SFDU |
| C25 | City of Clovis | The Palms IS | NEC of Sunnyside Ave/Alluvial Ave | Multi-Family Dwelling Units | 12 MFDU |
| C26 | City of Clovis | Clovis Unified School District Fowler-Henderson Campus | SEC of Fowler Ave/Herndon Ave | Educational Institution | 62 Employess; 170 Students; 50 Staff; 90 TSF Office; Future Admin Building. |
| C27 | City of Clovis | SPR 2003-017A2 | NWC of Armstrong Ave/Herndon Ave | Medical Office | 7.02 TSF |
| C28 | City of Clovis | SPR 2019-016 | NEC of Armstrong Ave/Herndon Ave | VA Site - Current phase will be parking only, no building. Building will start 1-yr after parking is completed. | 211 TSF |
| C29 | City of Clovis | TM 6367 | West of Temperance Ave and Ness Ave | Single-Family Dwelling Units | 8 SFDU |
| C30 | City of Clovis | SPR 2023-010 | NWC of Temperance Ave/Alluvial Ave | Office /Warehouse | Admin building - 62 employees and 30 students; Online education building - 50 staff and 140 students; School district office - 90 k.s.f. |
| C31 | City of Clovis | SPR 90-088A12 | 2755 Herndon Ave | Medical Hospital Expansion | 150 Occupied Beds Hotel: 220.000 TSF Retail; 468.844 TSF Hospital; 354.392 TSF MOB; 100 Occupied Bed Assisted Living |
| C32 | City of Clovis | SPR 2018-020 | SEC of Herndon Ave/Coventry Ave | Assisted Living | 150 Beds |
| C33 | City of Clovis | SPR 2007-025A2 | East of Temperance Ave and Coventry Ave | Office/Warehouse | 3.373 TSF |
| C34 | City of Clovis | TM 6438 - Vista Ranch | NEC of Temperance Ave/Shepherd Ave | Single-Family Dwelling Units and Multi-Family Dwelling Units | 3149 MFDU; 137 SFDU; 200 TSF Commercial; 421 TSF Mini Storage; 3 Acres Public Park. |
| C35 | City of Clovis | TM 6301 | SEC of Temperance Ave/Powers Ave | Single-Family Dwelling Units | 55 SFDU |
| C36 | City of Clovis | TM 6209 | SEC of Temperance Ave/Powers Ave | Single-Family Dwelling Units | 71 SFDU |
| C37 | City of Clovis | TM 6109 | SEC of Temperance Ave/Powers Ave | Single-Family Dwelling Units | 101 SFDU |
| C38 | City of Clovis | TM 6339 | South of Moody Ave and East of Locan Avenue | Single-Family Dwelling Units | 37 SFDU |

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**Table 5.A - Approved and Pending Projects**

| ID | Jurisdiction | Project Name/Reference | Address/Location | Project Description | Project Units/Area/Other |
|---|---|---|---|---|---|
| C39 | City of Clovis | TM 6239 | East of Locan Avenue and South of Shepherd Ave . | Single-Family Dwelling Units | 162 SFDU |
| C40 | City of Clovis | TM 6277 | NEC of Locan Ave/Teague Ave | Single-Family Dwelling Units | 8 DU |
| C43 | City of Clovis | TM 6332 | NEC of Locan Ave/Teague Ave | Single-Family Dwelling Units | 59 DU |
| C44 | City of Clovis | TM 6389 | NEC of Locan Ave/Teague Ave | Single-Family Dwelling Units | 41 DU |
| C45 | City of Clovis | Home Place Master Plan | NEC of Leonard Ave/Ashlan Ave | Single-Family Dwelling Units, Multi-Family Dwelling Units & Commercial Development | 1174 SFDU; 132 MF. |
| F1 | City of Fresno | McDonald Homes Plan | 11479 N Willow Ave | Single-Family Dwelling Units in the Copper River Ranch Specific Plan | 22 SFDU |
| F2 | City of Fresno | New Single Family Residence | 2442 Copper Ridge | Single-Family Dwelling Units in the Copper River Ranch Specific Plan | 1 SFDU |
| F3 | City of Fresno | Glasgow Project Custom 2-story | 11215 Glasgow Dr | Single-Family Dwelling Units in the Copper River Ranch Specific Plan | 1 SFDU |
| F4 | City of Fresno | Lennar Townhomes Plan 1003 | 2814 E Teaberry Dr | Single-Family Dwelling Unit | 1 SFDU |
| F5 | City of Fresno | New Single Family Residence | 1051 Turnberry Ave | Single-Family Dwelling Units | 2 SFDU |
| F7 | City of Fresno | Shell Building -The Row - Pad 1 | 2896 Shepherd Ave | Comercial - Shell Building (All Occupancies) | 4.013 TSF |
| F8 | City of Fresno | Shell Building -The Row - Pad 4 | 2884 E Shepherd Ave | Comercial - Shell Building (All Occupancies) | 4.46 TSF |
| F9 | City of Fresno | Shell Building - Park Crossing - Shops C | 8472 Friant Rd | Comercial - Shell Building (All Occupancies) | 1.684 TSF |
| F10 | City of Fresno | Change of Occupancy _ Banyan Tree Retail | 207 Sierra Ave | Comercial - Restaurants, Cafes, etc. | 3 TSF |
| F11 | City of Fresno | Shaw/Fresno Commercial | 417 Shaw Ave | Comercial - Shell Building (All Occupancies) | 2.24 TSF |
| F12 | City of Fresno | MFR Avalon Complex | 7521 Chestnut Ave | Multi-Family Dwelling Units | 60 MFDU |
| F13 | City of Fresno | Comm Misc. | 2777 Nees Ave | Cross City Church - 8 EV Chargers & Site Lighting | 2000811 |
| F14 | City of Fresno | New Residential Buildings | 2808 Alluvial Ave | Multi-Family Dwelling Units | 28 MFDU |
| F15 | City of Fresno | MFR Building | 7346 Willow Ave | Multi-Family Dwelling Units | 176 MFDU |
| F16 | City of Fresno | Community/Office Building | 7355 Willow Ave | Industrial - Storage | 8.362 TSF |
| T1 | County of Fresno | Friant Ranch Specific Plan | Specific Plan 5 miles north of City of Fresno | Single-family and multi-family residential units, commercial village center, and recreation center. | 2,270 Housing (55+ age restricted); 180 MFDU (non-age restricted); 16.1 acre Recreation and Fitness Complex and Community Lodge; 250 TSF commercial and retail space; 50 DU housing at the Village Center; 6 acre Depot Commercial. |
| T2 | County of Fresno | CUP 3667 - Pete LoCastro CMEX | West of Friant Road | Quarry Site | 349 acres Quarry Site; 122 acres Plant Site; Interplant haul of 225 truckloads per day (or 450 truck trips per day); 110 Existing Employees. |
| T3 | County of Fresno | CUP 3666 -- Pete LoCastro CMEX | NWC of Friant Rd/Birkhead Ave | Plant Site | |
| T4 | County of Fresno | VA 4155 | SWC of Old Friant Rd/Birkhead Ave | Single-Family Dwelling Unit | 1 SFDU |
| T5 | County of Fresno | VA 3989 | NEC of Old Friant Rd/Friant Road | Single-Family Dwelling Unit | 1 SFDU |
| T6 | County of Fresno | VA 4012 | NWC of Auberry Road/Garonne Rd | Single-Family Dwelling Units | 3 SFDU |
| T7 | County of Fresno | DRA 4711 | 12329 N Armstrong Ave | Single-Family Dwelling Unit | 1 SFDU |
| T8 | County of Fresno | DRA 4668 | 9254 N Fowler Ave | Single-Family Dwelling Units | 2 SFDU |
| T9 | County of Fresno | DRA 4735 | 5388 E Shepherd Ave | Single-Family Dwelling Unit | 1 SFDU |
| | | | | | |

**Notes:**

SFDU = Single-Family Dwelling Units; MFDU = Multi-Family Dwelling Units; TSF = Thousand Square Feet; RM = Rooms

# 6.0 PROJECT TRAFFIC

## 6.1 PROJECT TRIP GENERATION

The trip generation for the proposed project was developed using rates from the ITE *Trip Generation Manual* (11th Edition) for Land Use 210 – "Single-Family Detached Housing – Setting/Location General Urban/Suburban." Table 6.A summarizes the project trip generation. As shown in Table 6.A, the project is anticipated to generate 186 trips in the a.m. peak hour, 250 trips in the p.m. peak hour, and 2,508 daily trips.

## 6.2 PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

The project trip distribution was developed using select zone model runs obtained from the Fresno COG ABM. Appendix A includes the select zone model plots for the proposed project. This was further refined to reflect existing and future circulation network in the vicinity of the proposed project.

Currently, within the project vicinity, Peach Avenue, north of Shepherd Avenue, and Perrin Avenue east of Willow Avenue, are yet to be constructed. As such, it is estimated that this segment of Peach Avenue (between southern end of the project and Shepherd Avenue) along with Perrin Avenue east of Willow Avenue (between Willow Avenue and Peach Avenue) would be constructed along with other major developments within the area as part of the Heritage Grove Specific Plan Project envelop. However, since there is no determined timeline for these circulation improvements, two separate project trip distribution patterns were developed for the project, one for existing and near-term scenario, which reflects the existing circulation network in the project vicinity, and another for cumulative long-term scenario, which accounts for completion of Peach Avenue, Clovis Avenue and Perrin Avenue, among other circulation network improvements.

Additionally, as previously mentioned, upon completion of the adjacent residential projects south of the project limit, project trips may utilize the expanded circulation network to travel south and access Peach Avenue, Perrin Avenue or Minnewawa Avenue. However, as a conservative estimate since these developments are yet to be developed and the circulation network is not finalized, it was estimated that all project trips will be utilizing the four project driveways. This would provide a more conservative estimate in determination of operational efficiencies at the project driveways.

Figure 6-1 illustrates the existing and near-term project trip distribution. Figure 6-2 illustrates the cumulative scenario project trip distribution. The project trip assignment at the study area intersections is the product of the project trip generation and the corresponding trip distribution percentages. Figure 6-3 illustrates the existing and near-term conditions project trip assignment at the study area intersections. Figure 6-4 illustrates the cumulative conditions project trip assignment at the study area intersections.

## 6.3 LIST OF CHAPTER 6.0 FIGURES AND TABLES

- Figure 6-1: Existing and Near-Term Project Trip Distribution
- Figure 6-2: Cumulative Project Trip Distribution
- Figure 6-3: Existing and Near-Term Project Trip Assignment
- Figure 6-4: Cumulative Project Trip Assignment
- Table 6.A: Project Trip Generation

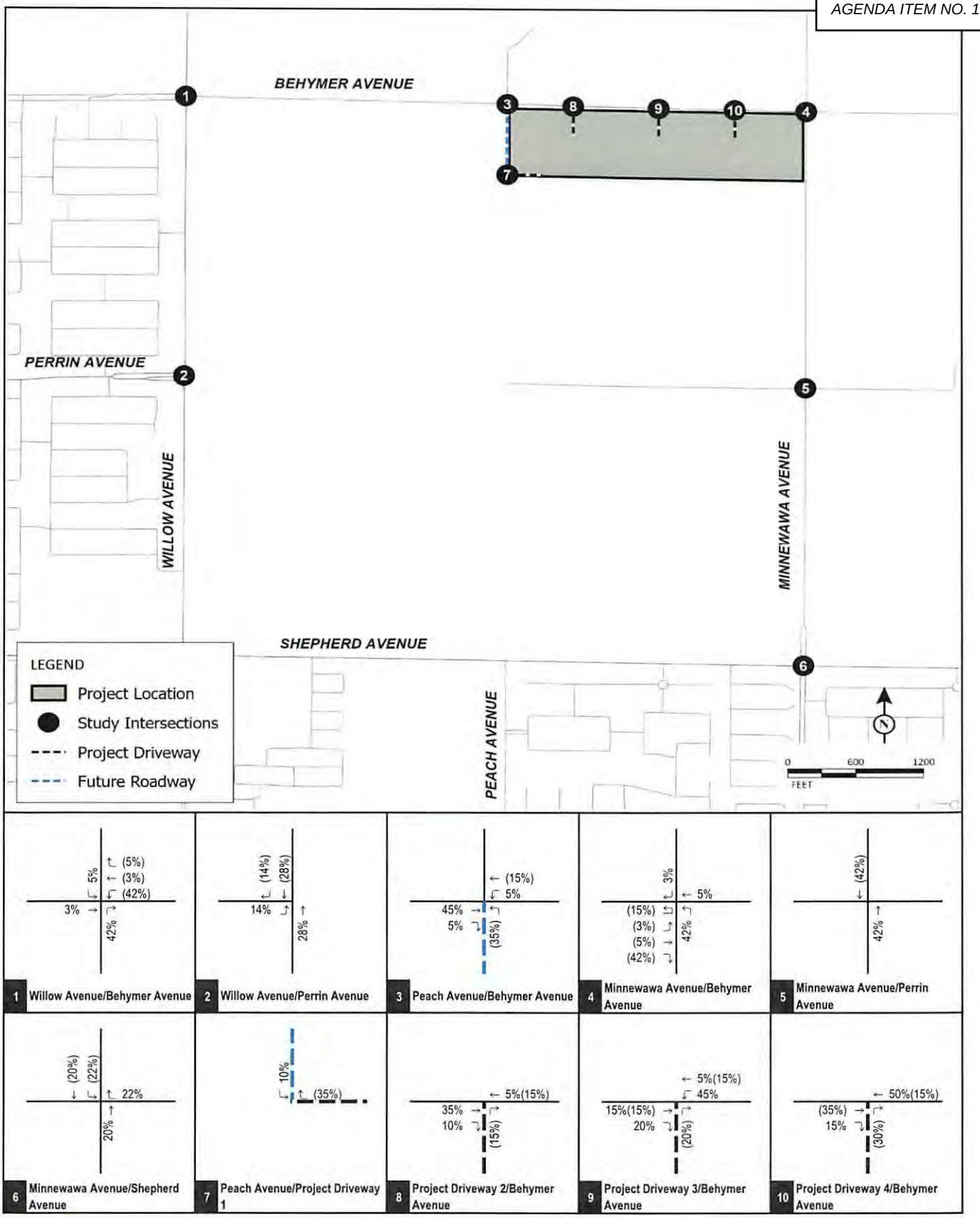


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FIGURE 6-1

XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway
Future Roadway

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Existing and Near-Term Project Trip Distribution

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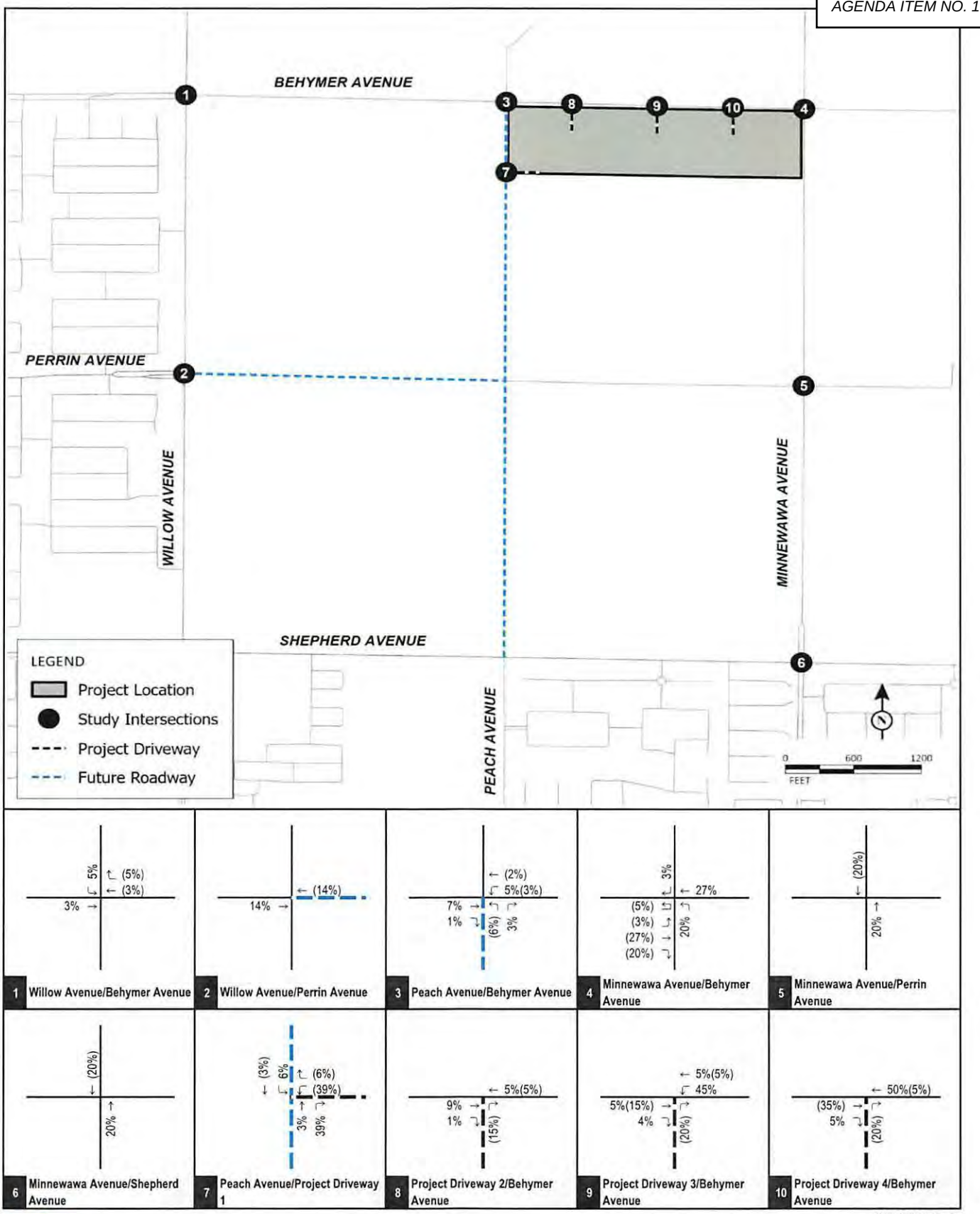


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FIGURE 6-2

XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway
Future Roadway

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Cumulative Project Trip Distributio

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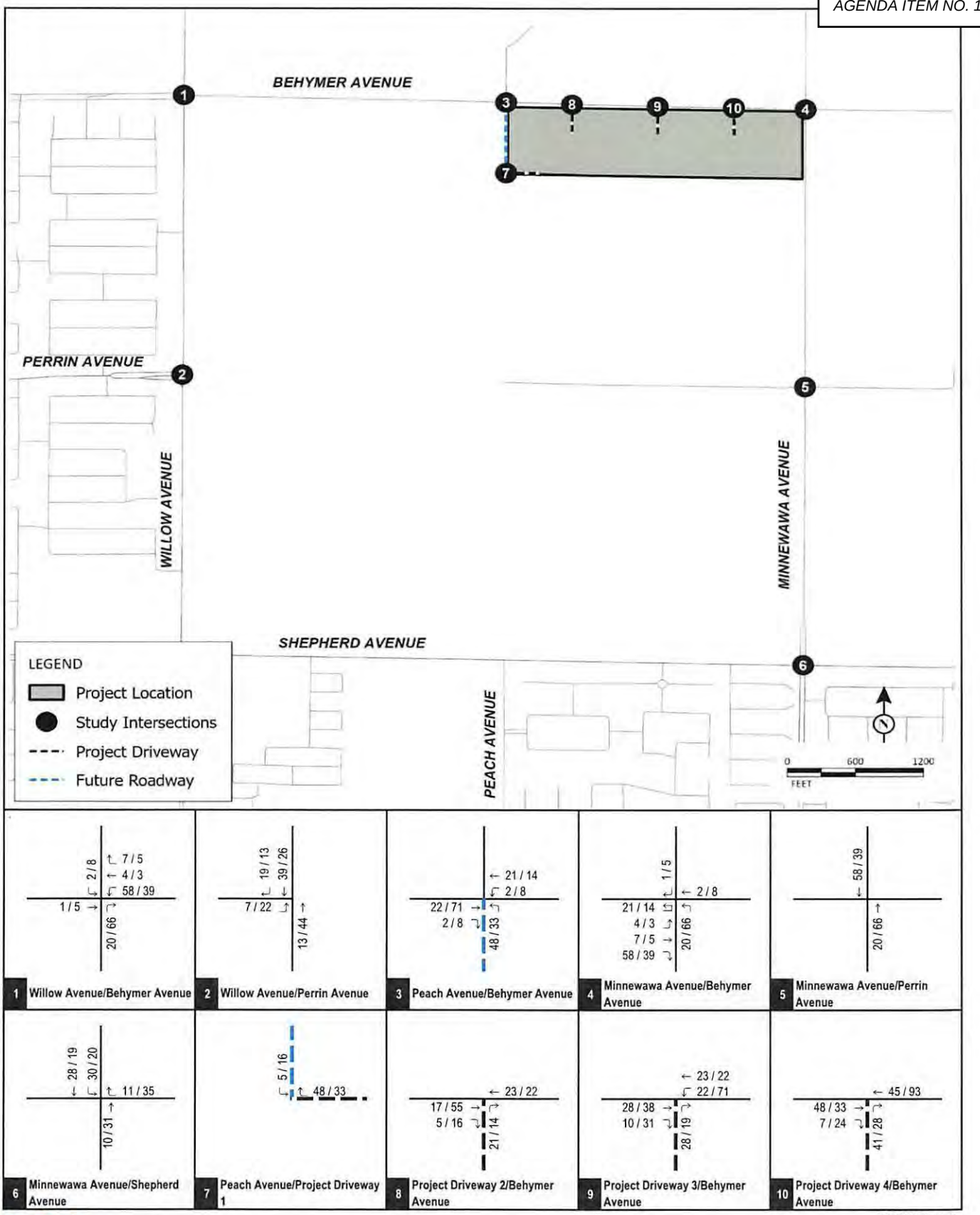


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FIGURE 6-3

XX / YY
AM / PM Peak Hour Trips
Project Driveway
Future Roadway

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Existing and Near-Term Project Trip Assignment

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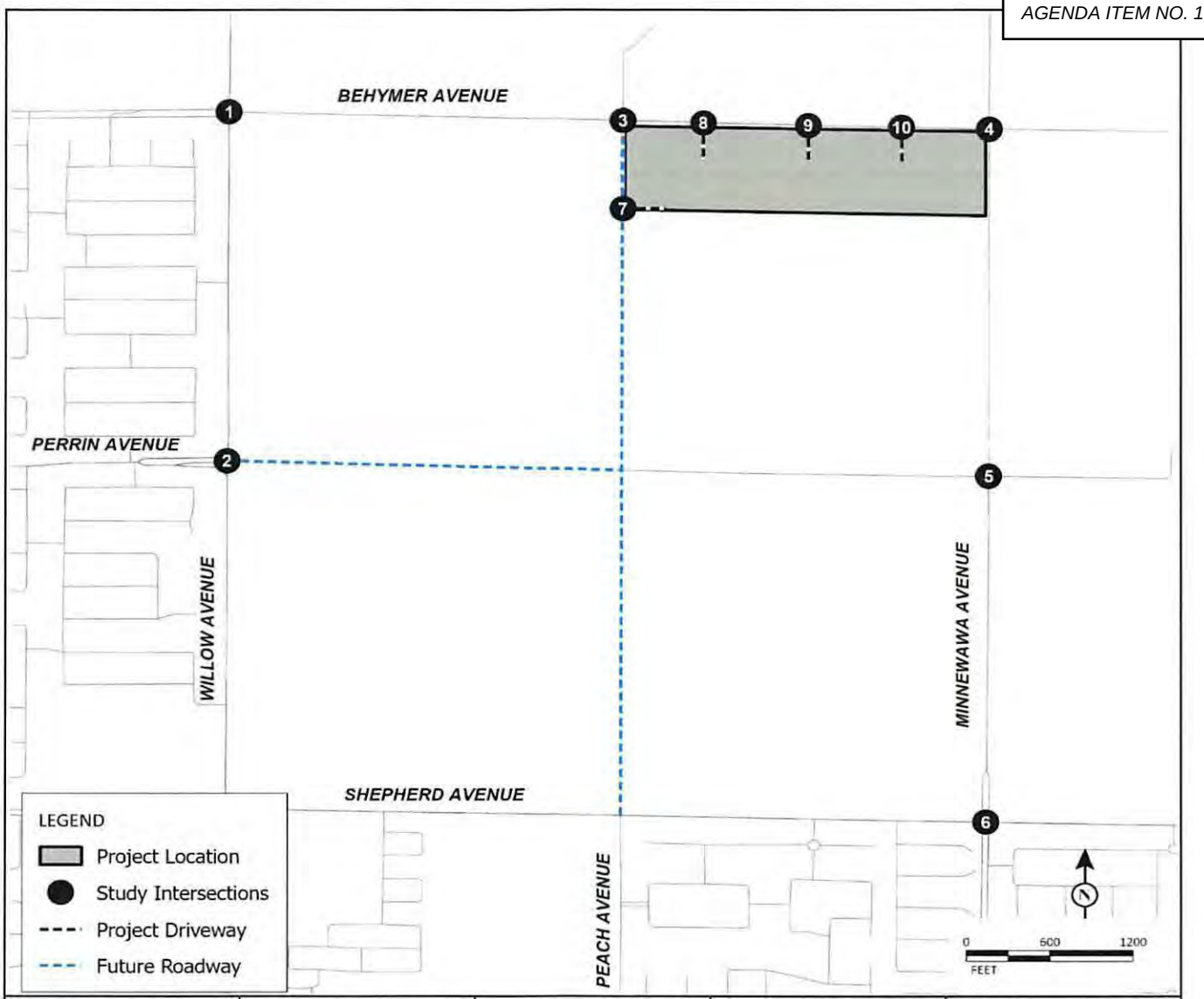


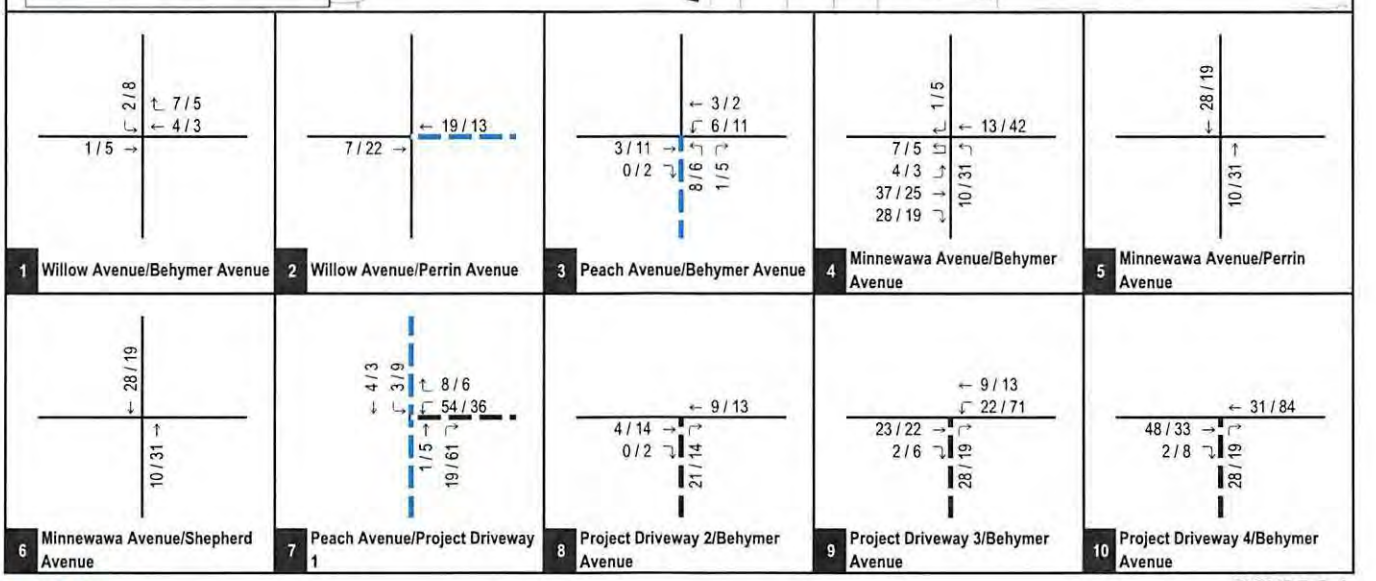


FIGURE 6-4

LSA

XX / YY
AM / PM Peak Hour Trips
Project Driveway
Future Roadway

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Cumulative Project Trip Assignment

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## Table 6.A - Project Trip Generation

| Land Use | Units | A.M. Peak Hour In | A.M. Peak Hour Out | A.M. Peak Hour Total | P.M. Peak Hour In | P.M. Peak Hour Out | P.M. Peak Hour Total | Daily |
|---|---|---|---|---|---|---|---|---|
| **Single-Family Detached Housing** | 266 DU | | | | | | | |
| Trips/Unit[1] | | 0.18 | 0.52 | 0.70 | 0.59 | 0.35 | 0.94 | 9.43 |
| Trip Generation | | **48** | **138** | **186** | **157** | **93** | **250** | **2,508** |

Notes:

DU = Dwelling Units

[1] Rates based on Land Use 210 - "Single-Family Detached Housing" from the Institute of Transportation Engineers (ITE)*Trip Generation Manual*, 11th Edition, Setting/Location - "General Urban/Suburban."

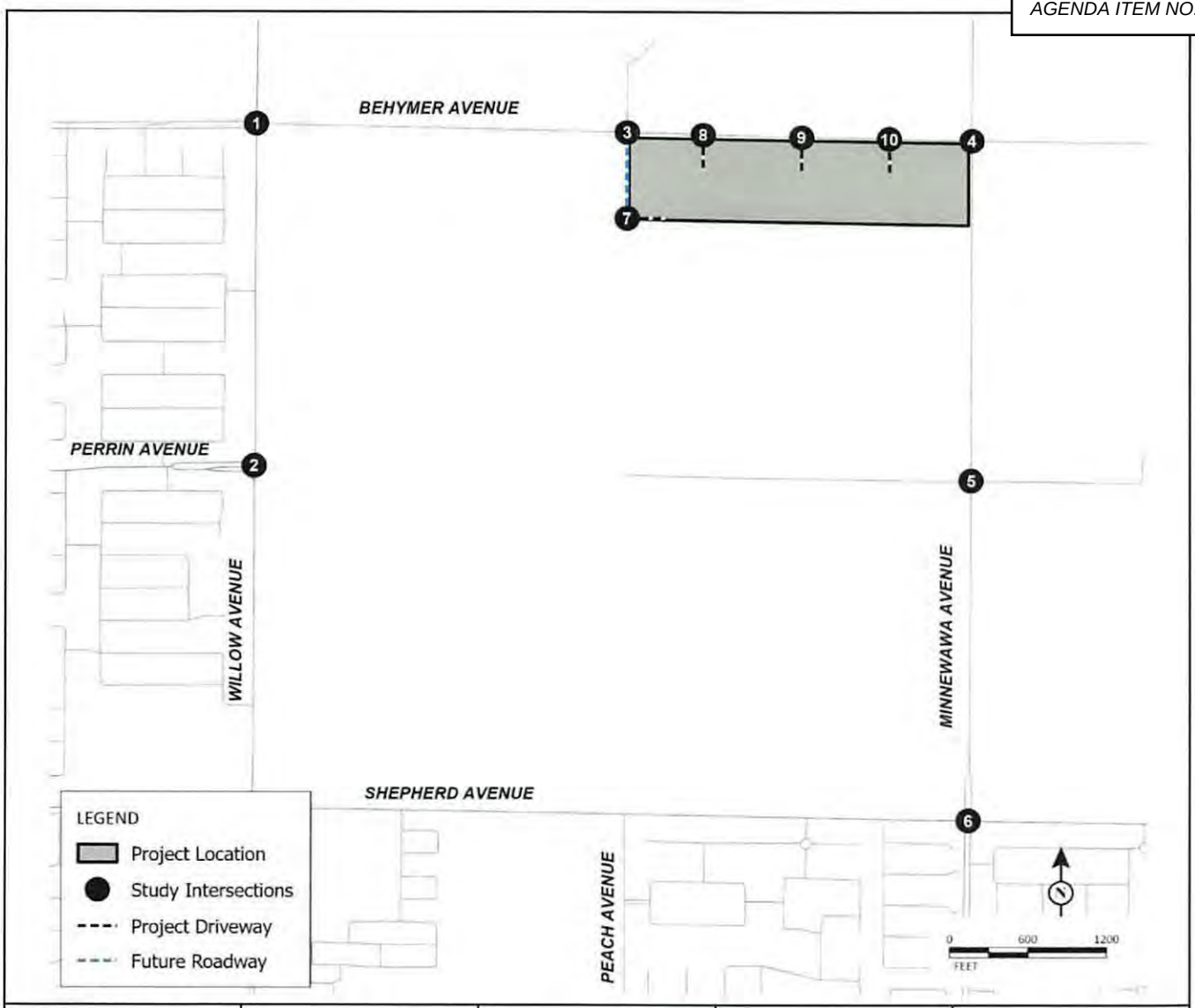
# 7.0 TRAFFIC VOLUMES FOR PLUS PROJECT SCENARIOS

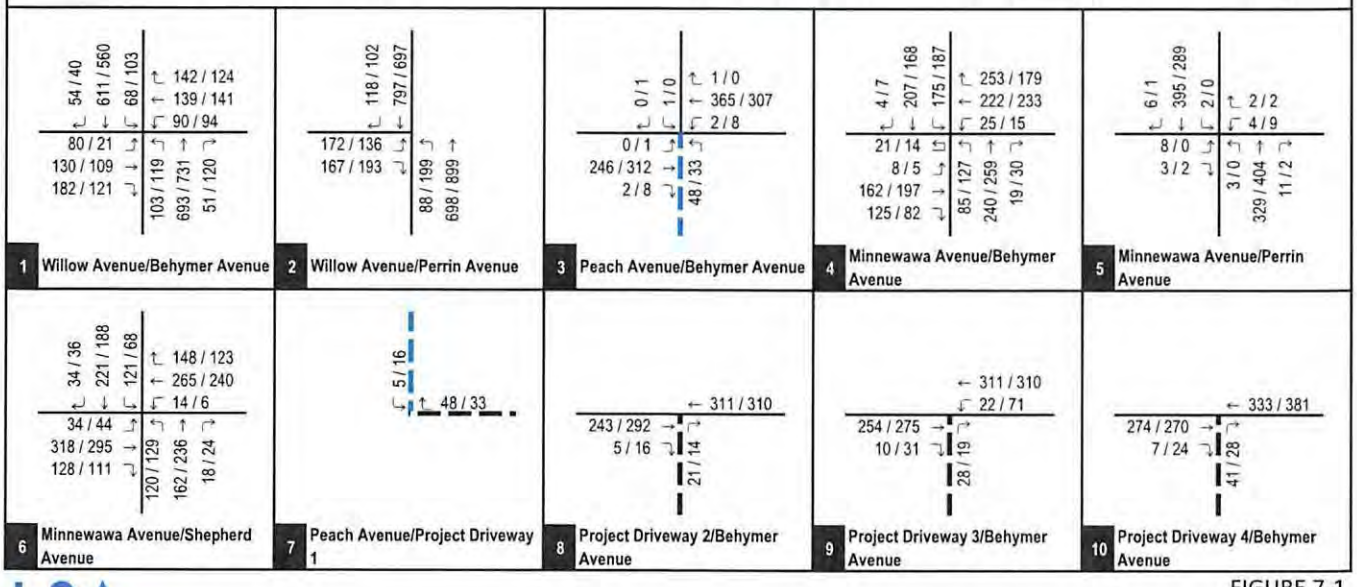
Existing, near-term, and cumulative plus project traffic volumes were developed by adding project traffic to the traffic for the corresponding without project scenarios. Figures 7-1, 7-2 and 7-3 illustrate "plus project" peak-hour traffic volumes at study intersections under existing, near-term, and cumulative conditions, respectively.

Detailed volume development worksheets are included in Appendix D.

## 7.1 LIST OF CHAPTER 7.0 FIGURES

- Figure 7-1: Existing Plus Project Peak-Hour Traffic Volumes
- Figure 7-2: Near-Term (2028) Plus Project Peak-Hour Traffic Volumes
- Figure 7-3: Cumulative (2046) Plus Project Peak-Hour Traffic Volumes



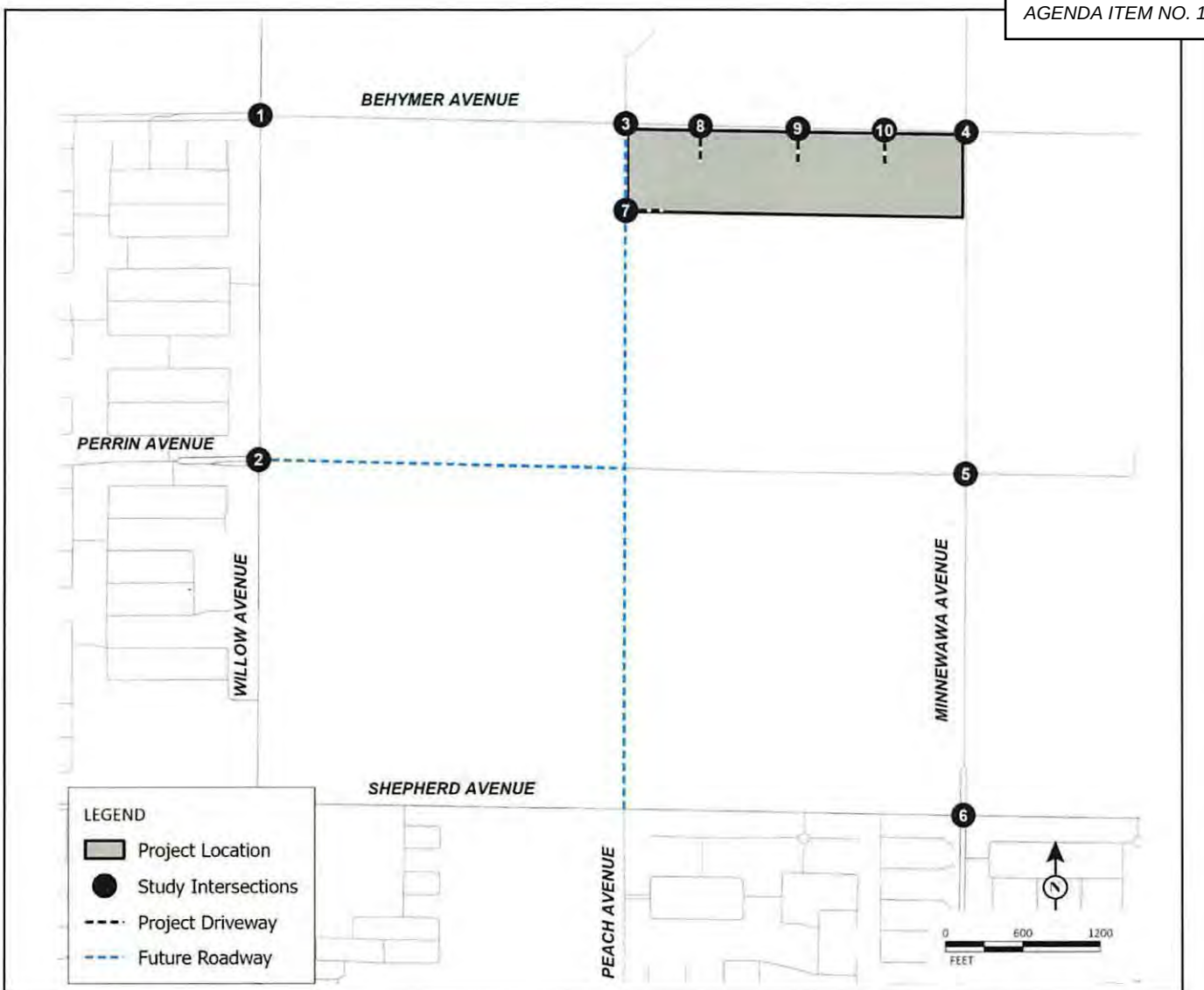

LSA

FIGURE 7-1

XXX / YYY
AM / PM Peak Hour Traffic Volumes

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Existing Plus Project Peak Hour Traffic Volumes



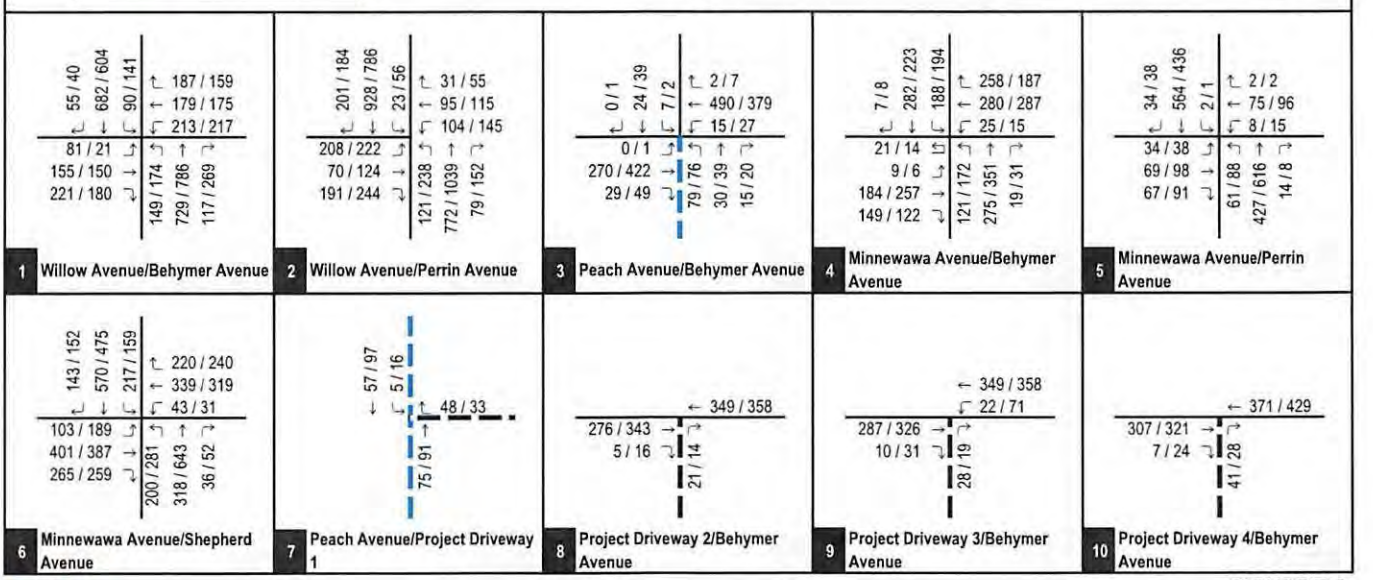




FIGURE 7-2

LSA

XXXX / YYYY
AM / PM Peak Hour Traffic Volumes

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Near-Term (2028) Plus Project Peak Hour Traffic Volume

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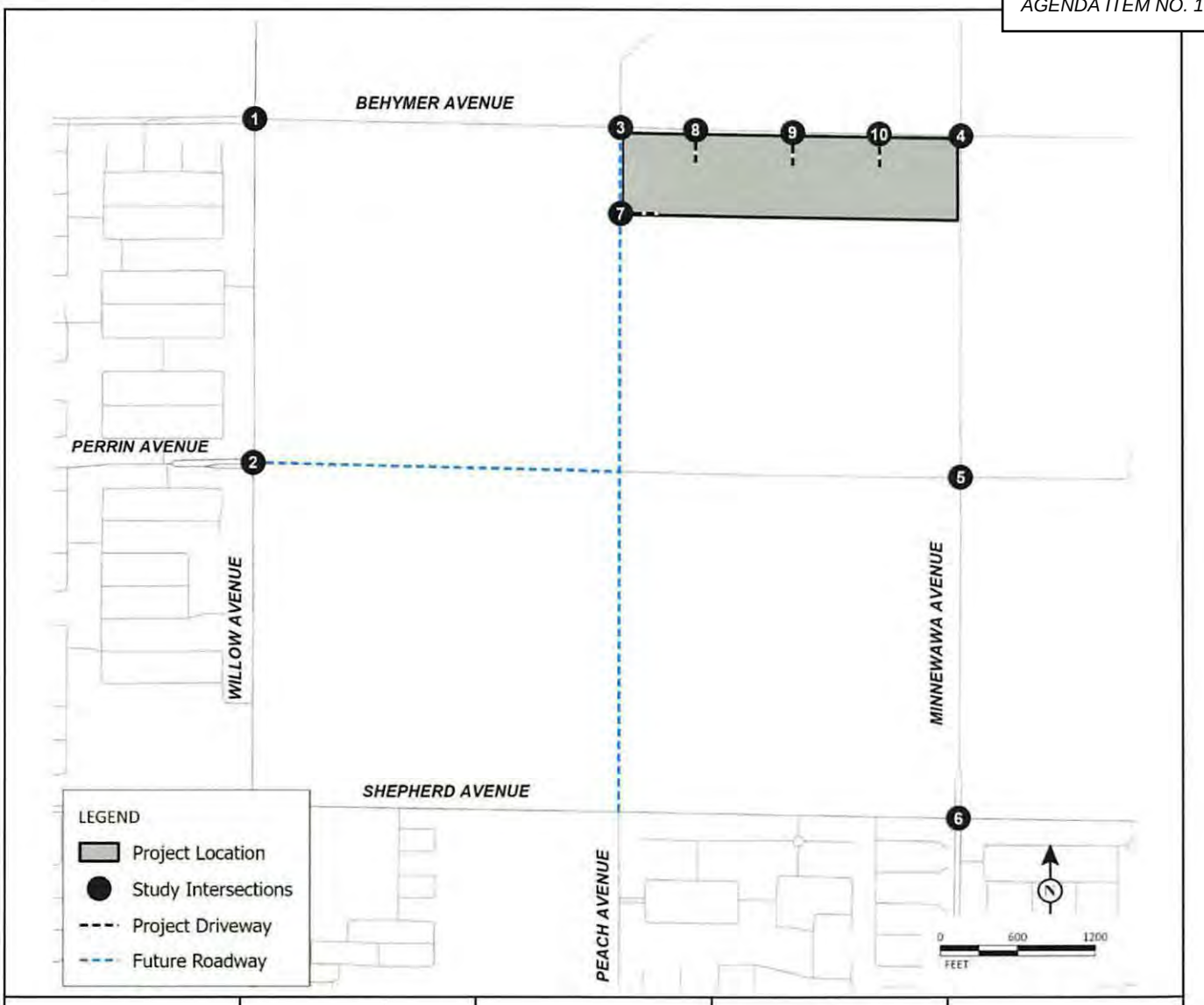


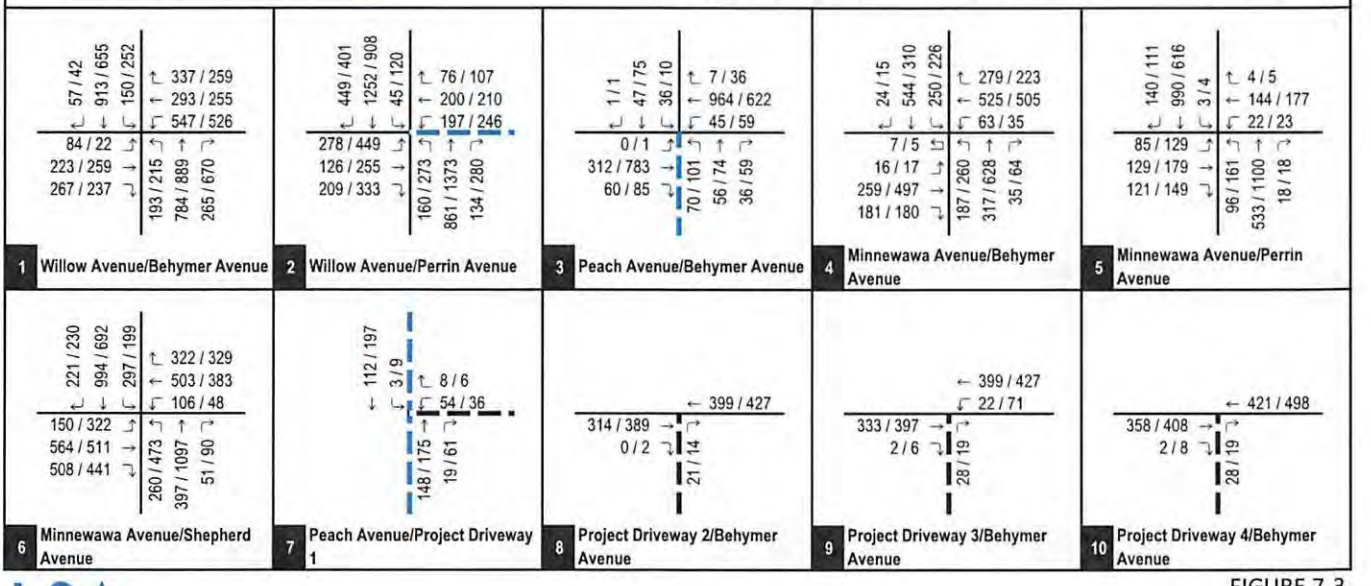


FIGURE 7-3

LSA

XXXX / YYYY

AM / PM Peak Hour Traffic Volumes

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Cumulative (2046) Plus Project Peak Hour Traffic Volumes

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# 8.0 INTERSECTION LEVELS OF SERVICE

## 8.1 EXISTING LEVELS OF SERVICE

An intersection LOS analysis was conducted for existing conditions using the methodologies previously discussed. Existing signal timing sheets were obtained from the City for all signalized analysis intersections. The signal timing sheets are included in Appendix C. It should be noted that the existing signal timings were utilized to analyze traffic operations under near-term and cumulative (2046) scenarios as a conservative approach. Table 8.A summarizes the results of this analysis and shows that the following intersection operates at an unsatisfactory LOS under existing conditions:

- Minnewawa Avenue/Behymer Avenue (a.m. and p.m. peak hours)

All other study intersections operate at a satisfactory LOS under existing conditions.

## 8.2 EXISTING PLUS PROJECT LEVELS OF SERVICE

Previously referenced Figure 4-2 illustrates existing plus project study area intersection geometrics and traffic control. Analysis of the existing plus project scenario is provided to identify direct project-related operational deficiency if the project were to be built and in operation today. This scenario eliminates the effects of ambient growth and other approved/pending projects and deals specifically with operational deficiencies only due to the project traffic.

An intersection LOS analysis was conducted for existing plus project conditions using the methodologies previously discussed. Table 8.A summarizes the results of this analysis and shows that the following intersection is forecasted to operate at an unsatisfactory LOS under existing plus project conditions:

- Minnewawa Avenue/Behymer Avenue (a.m. and p.m. peak hours)

All other study intersections are forecasted to operate at a satisfactory LOS under existing plus project conditions.

It should be noted that this intersection is currently operating at a deficient LOS under existing conditions. As such, the project will be adding to the existing deficiencies at this intersection.

## 8.3 NEAR-TERM (2028) PLUS PROJECT LEVELS OF SERVICE

An intersection LOS analysis was conducted for near-term plus project conditions using the methodologies previously discussed. Table 8.B summarizes the results of this analysis and shows that the following intersections are forecasted to operate at an unsatisfactory LOS under near-term plus project conditions:

- Peach Avenue/Behymer Avenue (p.m. peak hour only)
- Minnewawa Avenue/Behymer Avenue (a.m. and p.m. peak hours)

- Minnewawa Avenue/Perrin Avenue (a.m. and p.m. peak hours)

Based on the operational deficiency criteria stated in Section 3.2 of this TIA, the project is forecasted to create an operational deficiency at these intersections. All other study intersections are forecasted to operate at a satisfactory LOS under near-term plus project conditions.

## 8.4 CUMULATIVE (2046) WITHOUT PROJECT LEVELS OF SERVICE

An intersection LOS analysis was conducted for cumulative without project conditions using the methodologies previously discussed. Table 8.C summarizes the results of this analysis and shows that the following intersections are forecasted to operate at an unsatisfactory LOS under cumulative without project conditions:

- Willow Avenue/Behymer Avenue (a.m. and p.m. peak hours)
- Willow Avenue/Perrin Avenue (p.m. peak hour only)
- Peach Avenue/Behymer Avenue (a.m. and p.m. peak hours)
- Minnewawa Avenue/ Behymer Avenue (a.m. peak hour only)
- Minnewawa Avenue/Perrin Avenue (a.m. and p.m. peak hours)
- Minnewawa Avenue/Shepherd Avenue (a.m. and p.m. peak hours)

All other study intersections are forecasted to operate at a satisfactory LOS under cumulative (2046) without project conditions.

## 8.5 CUMULATIVE (2046) PLUS PROJECT LEVELS OF SERVICE

An intersection LOS analysis was conducted for cumulative plus project conditions using the methodologies previously discussed. Table 8.C summarizes the results of this analysis and shows that the following intersections are forecasted to operate at an unsatisfactory LOS under cumulative plus project conditions:

- Willow Avenue/Behymer Avenue (a.m. and p.m. peak hours)
- Willow Avenue/Perrin Avenue (p.m. peak hour only)
- Peach Avenue/Behymer Avenue (a.m. and p.m. peak hours)
- Minnewawa Avenue/ Behymer Avenue (a.m. peak hour only)
- Minnewawa Avenue/Perrin Avenue (a.m. and p.m. peak hours)
- Minnewawa Avenue/Shepherd Avenue (a.m. and p.m. peak hours)

Based on the operational deficiency criteria stated in Section 3.2 of this TIA, the project is forecasted to create an operational deficiency at these intersections. All other study intersections are forecasted to operate at a satisfactory LOS under cumulative plus project conditions.

It should be noted that all these 6 intersections are forecast to operate at a deficient LOS under cumulative (2046) without project conditions. As such, the project will be adding to the forecasted deficiencies at these intersections.

Detailed intersection LOS worksheets are included in Appendix E.

## 8.6 LIST OF CHAPTER 8.0 TABLES


- Table 8.A: Existing Intersection Levels of Service
- Table 8.B: Near-Term (2028) Intersection Levels of Service
- Table 8.C: Cumulative (2046) Intersection Levels of Service

LSA

**Table 8.A - Existing Intersection Levels of Service**

| Intersection | Jurisdiction | LOS Standard | Without Project | | | | | Plus Project | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Control | A.M. Peak Hour Delay (sec.) | A.M. Peak Hour LOS | P.M. Peak Hour Delay (sec.) | P.M. Peak Hour LOS | Control | A.M. Peak Hour Delay (sec.) | A.M. Peak Hour LOS | P.M. Peak Hour Delay (sec.) | P.M. Peak Hour LOS |
| 1 . Willow Avenue/Behymer Avenue | Clovis/Fresno | D | Signal | 24.8 | C | 25.0 | C | Signal | 25.7 | C | 25.8 | C |
| 2 . Willow Avenue/Perrin Avenue | Clovis/Fresno | D | Signal | 12.1 | B | 12.9 | B | Signal | 12.3 | B | 13.1 | B |
| 3 . Peach Avenue/Behymer Avenue | Clovis | D | OWSC | 15.2 | C | 9.9 | A | TWSC | 18.7 | C | 16.0 | C |
| 4 . Minnewawa Avenue/Behymer Avenue | Clovis | D | AWSC | 59.5 | F * | 56.1 | F * | AWSC | 89.2 | F * | 91.1 | F * |
| 5 . Minnewawa Avenue/Perrin Avenue | Clovis | D | TWSC | 14.4 | B | 13.6 | B | TWSC | 15.8 | C | 15.3 | C |
| 6 . Minnewawa Avenue/Shepherd Avenue | Clovis | D | Signal | 21.2 | C | 20.0 | B | Signal | 21.9 | C | 20.8 | C |
| 7 . Peach Avenue/Project Driveway 1 | Clovis | D | - | *Future Intersection* | | *Future Intersection* | | OWSC | *No Conflicting Movements* | | *No Conflicting Movements* | |
| 8 . Project Driveway 2/Behymer Avenue | Clovis | D | - | *Future Intersection* | | *Future Intersection* | | TWSC | 9.8 | A | 10.1 | B |
| 9 . Project Driveway 3/Behymer Avenue | Clovis | D | - | *Future Intersection* | | *Future Intersection* | | TWSC | 10.0 | A | 10.1 | B |
| 10 . Project Driveway 4/Behymer Avenue | Clovis | D | - | *Future Intersection* | | *Future Intersection* | | TWSC | 10.2 | B | 10.1 | B |

**Notes:**

AWSC= All-Way Stop Control; OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

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LSA

## Table 8.B - Near-Term (2028) Intersection Levels of Service

| Intersection | Jurisdiction | LOS Standard | Plus Project | | | | |
|---|---|---|---|---|---|---|---|
| | | | Control | A.M. Peak Hour | | P.M. Peak Hour | |
| | | | | Delay (sec.) | LOS | Delay (sec.) | LOS |
| 1 . Willow Avenue/Behymer Avenue | Clovis/Fresno | D | Signal | 32.6 | C | 33.4 | C |
| 2 . Willow Avenue/Perrin Avenue | Clovis/Fresno | D | Signal | 25.2 | C | 34.3 | C |
| 3 . Peach Avenue/Behymer Avenue | Clovis | D | TWSC | 30.8 | D | 42.9 | E * |
| 4 . Minnewawa Avenue/Behymer Avenue | Clovis | D | AWSC | 170.6 | F * | >200 | F * |
| 5 . Minnewawa Avenue/Perrin Avenue | Clovis | D | TWSC | 198.4 | F * | >200 | F * |
| 6 . Minnewawa Avenue/Shepherd Avenue | Clovis | D | Signal | 48.3 | D | 52.6 | D |
| 7 . Peach Avenue/Project Driveway 1 | Clovis | D | OWSC | 8.9 | A | 8.9 | A |
| 8 . Project Driveway 2/Behymer Avenue | Clovis | D | TWSC | 10.0 | A | 10.5 | B |
| 9 . Project Driveway 3/Behymer Avenue | Clovis | D | TWSC | 10.2 | B | 10.5 | B |
| 10 . Project Driveway 4/Behymer Avenue | Clovis | D | TWSC | 10.5 | B | 10.5 | B |

**Notes:**

AWSC= All-Way Stop Control; OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

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**Table 8.C - Cumulative (2046) Intersection Levels of Service**

| Intersection | Jurisdiction | LOS Standard | Without Project | | | | | Plus Project | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Control | A.M. Peak Hour Delay (sec.) | A.M. Peak Hour LOS | P.M. Peak Hour Delay (sec.) | P.M. Peak Hour LOS | Control | A.M. Peak Hour Delay (sec.) | A.M. Peak Hour LOS | P.M. Peak Hour Delay (sec.) | P.M. Peak Hour LOS |
| 1 . Willow Avenue/Behymer Avenue | Clovis/Fresno | D | Signal | 137.3 | F * | 160.1 | F * | Signal | 139.2 | F * | 158.6 | F * |
| 2 . Willow Avenue/Perrin Avenue | Clovis/Fresno | D | Signal | 34.4 | C | 57.5 | E * | Signal | 35.3 | D | 57.9 | E * |
| 3 . Peach Avenue/Behymer Avenue | Clovis | D | OWSC | >200 | F * | >200 | F * | TWSC | >200 | F * | >200 | F * |
| 4 . Minnewawa Avenue/Behymer Avenue | Clovis | D | AWSC | >200 | F * | >200 | F * | AWSC | >200 | F * | >200 | F * |
| 5 . Minnewawa Avenue/Perrin Avenue | Clovis | D | TWSC | >200 | F * | >200 | F * | TWSC | >200 | F * | >200 | F * |
| 6 . Minnewawa Avenue/Shepherd Avenue | Clovis | D | Signal | 175.8 | F * | >200 | F * | Signal | 183.7 | F * | >200 | F * |
| 7 . Peach Avenue/Project Driveway 1 | Clovis | D | - | *Future Intersection* | | *Future Intersection* | | OWSC | 10.6 | B | 11.7 | B |
| 8 . Project Driveway 2/Behymer Avenue | Clovis | D | - | *Future Intersection* | | *Future Intersection* | | TWSC | 10.3 | B | 10.9 | B |
| 9 . Project Driveway 3/Behymer Avenue | Clovis | D | - | *Future Intersection* | | *Future Intersection* | | TWSC | 10.5 | B | 11.0 | B |
| 10 . Project Driveway 4/Behymer Avenue | Clovis | D | - | *Future Intersection* | | *Future Intersection* | | TWSC | 10.7 | B | 11.1 | B |

**Notes:**

AWSC= All-Way Stop Control; OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

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# 9.0 SIGNAL WARRANT ANALYSIS

As recommended during the scoping agreement process, a signal warrant analysis was conducted at study intersections where installing a signal could be an appropriate and potential operational improvement measure. A Peak Hour Warrant (Warrant 3) was conducted for such locations. Peak hour approach volumes for the study intersections were examined to determine whether signalization is warranted per the criteria defined in the latest version California supplement of the *Manual on Uniform Traffic Control Devices* (CA-MUTCD). Following is a brief summary of signal warrant analysis:

## 9.1 PEACH AVENUE/BEHYMER AVENUE

Figures 9-1 and Figure 9-2 illustrate the Warrant 3 (Peak Hour) for this intersection under near-term and cumulative year conditions, respectively. As shown in these figures, this intersection does not meet the signal warrant under near-term conditions. However, it does meet the signal warrant under cumulative conditions. As such, a signal is warranted at this location.

## 9.2 MINNEWAWA AVENUE/BEHYMER AVENUE

Figures 9-3, Figure 9-4, and Figure 9-5 illustrate the Warrant 3 (Peak Hour) for this intersection under existing, near-term and cumulative conditions, respectively. As shown in these figures, this intersection does meet the signal warrant under existing, near-term and cumulative conditions. As such, a signal is warranted at this location.

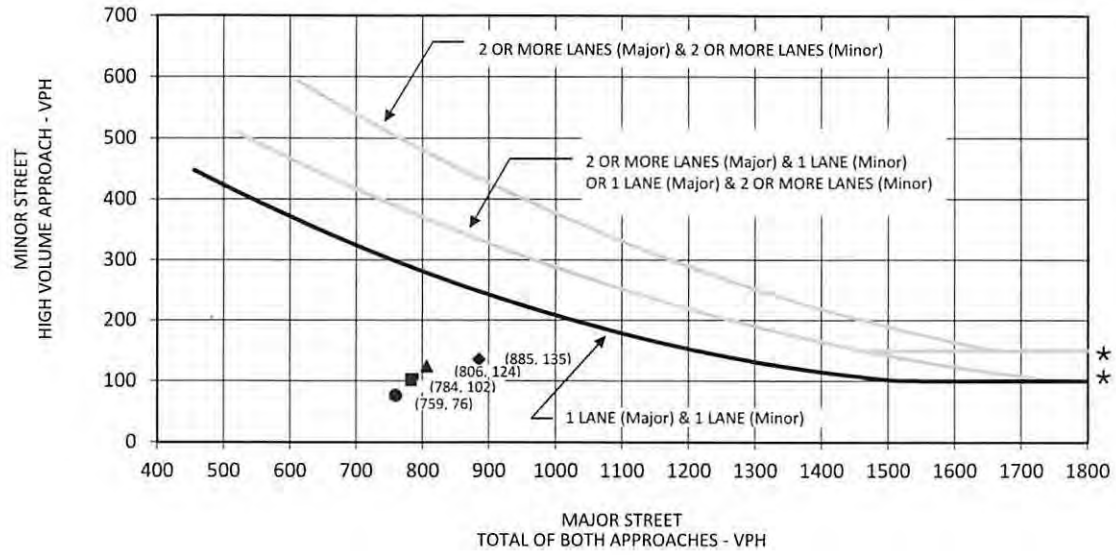
## 9.3 MINNEWAWA AVENUE/PERRIN AVENUE

Figures 9-6 and Figure 9-7 illustrate the Warrant 3 (Peak Hour) for this intersection under near-term and cumulative year conditions, respectively. As shown in these figures, this intersection does meet the signal warrant under near-term and cumulative year conditions. As such, a signal is warranted at this location.

## 9.4 LIST OF CHAPTER 9.0 FIGURES

- Figure 9-1: Warrant 3: Peak Hour – Peach Avenue/Behymer Avenue – Near-Term Conditions
- Figure 9-2: Warrant 3: Peak Hour – Peach Avenue/Behymer Avenue – Cumulative Conditions
- Figure 9-3: Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Existing Conditions
- Figure 9-4: Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Near-Term Conditions
- Figure 9-5: Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Cumulative Conditions
- Figure 9-6: Warrant 3: Peak Hour – Minnewawa Avenue/Perrin Avenue – Near-Term Conditions
- Figure 9-7: Warrant 3: Peak Hour – Minnewawa Avenue/Perrin Avenue – Cumulative Conditions

## WARRANT 3, PEAK HOUR




* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

LSA

FIGURE 9-1

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Warrant 3: Peak Hour – Peach Avenue/Behymer Avenue – Near-Term Conditions

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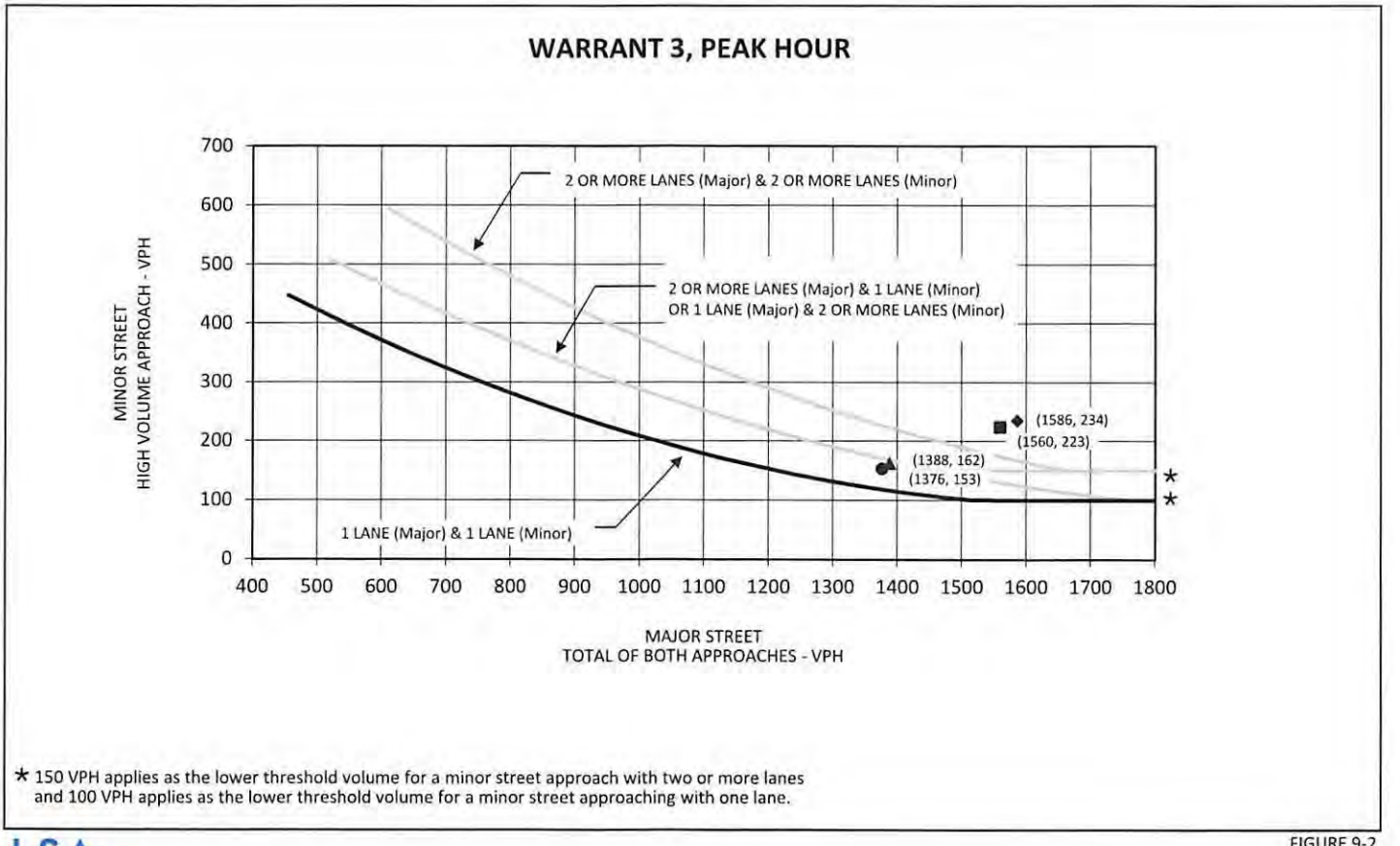


* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

LSA

FIGURE 9-2

● No Project AM Peak Hour ▲ With Project AM Peak Hour

■ No Project PM Peak Hour ◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Warrant 3: Peak Hour – Peach Avenue/Behymer Avenue – Cumulative Conditions

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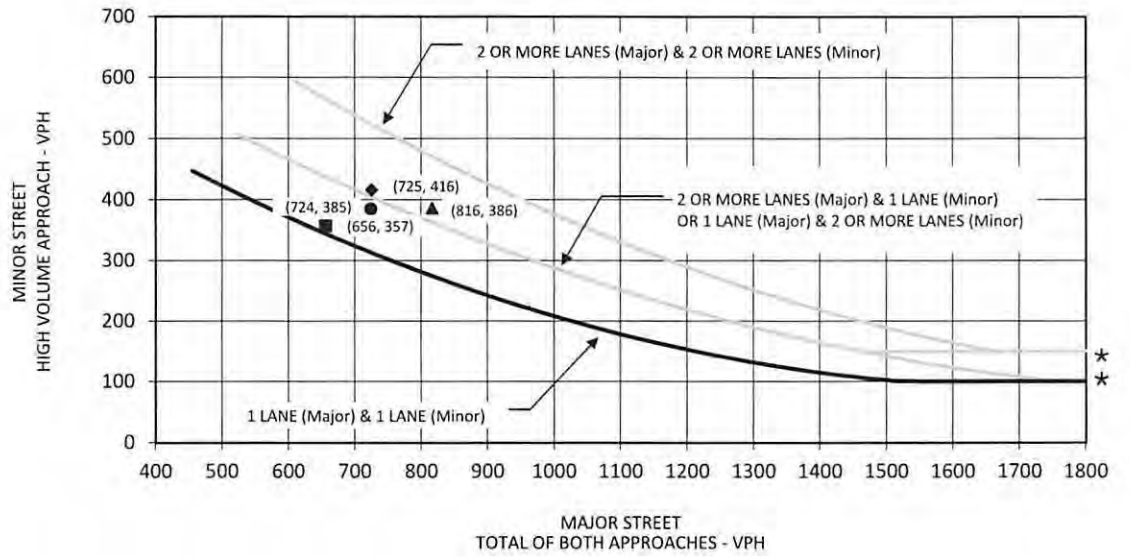
## WARRANT 3, PEAK HOUR




* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

FIGURE 9-3

LSA

● No Project AM Peak Hour ▲ With Project AM Peak Hour

■ No Project PM Peak Hour ◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Existing Conditions

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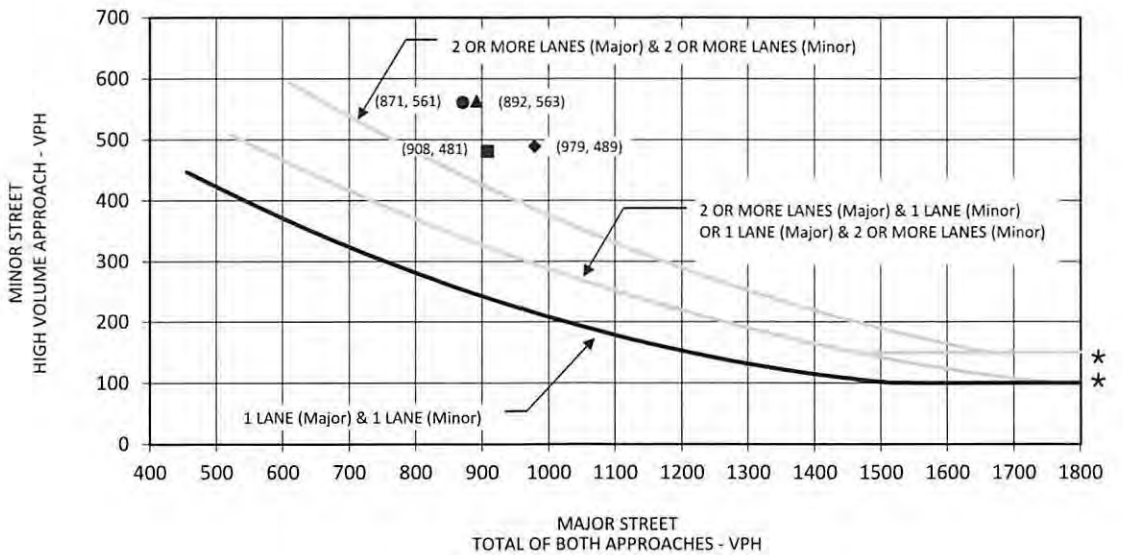
## WARRANT 3, PEAK HOUR




* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

LSA

FIGURE 9-4

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Near-Term Conditions

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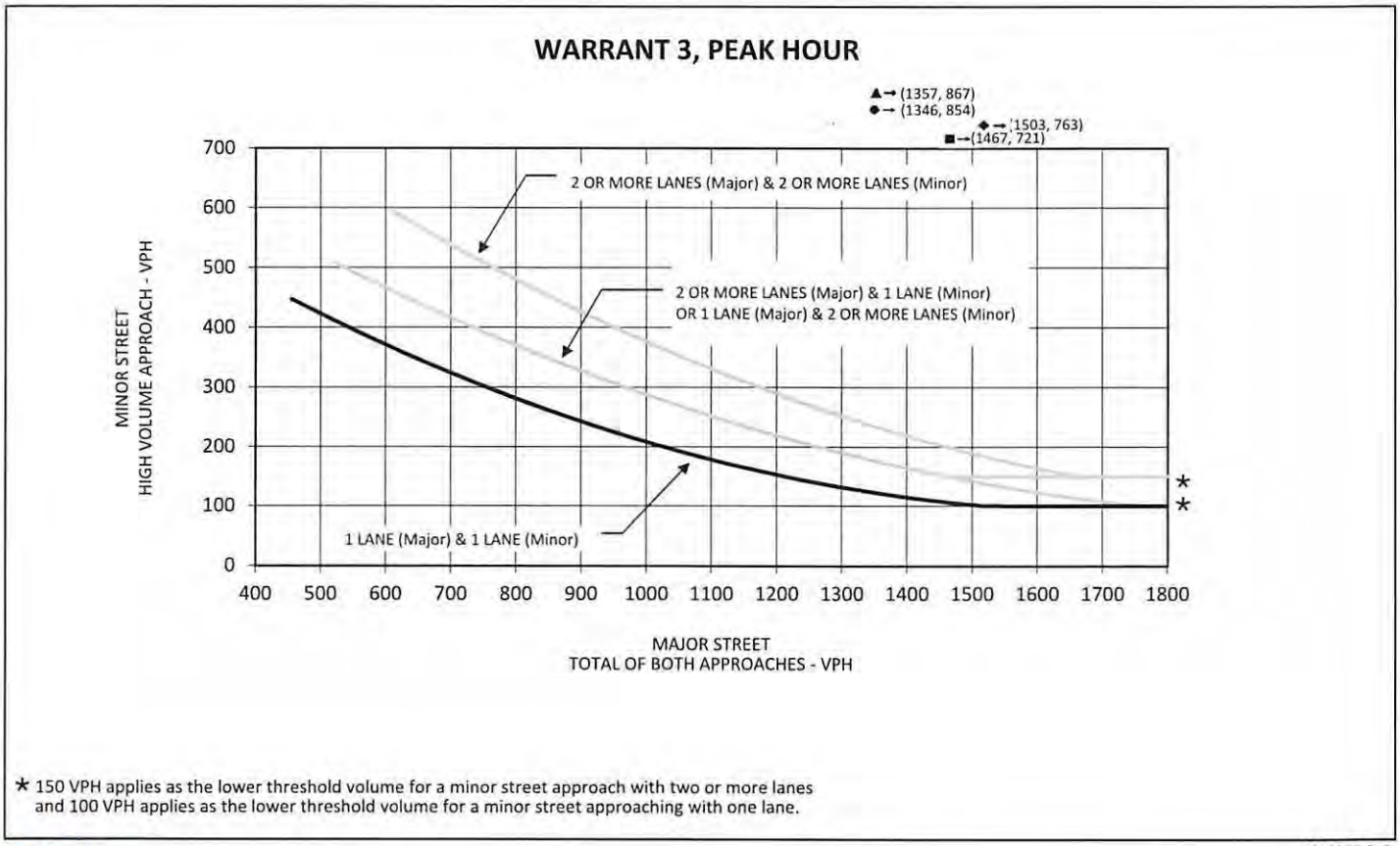


★ 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

LSA

FIGURE 9-5

● No Project AM Peak Hour ▲ With Project AM Peak Hour

■ No Project PM Peak Hour ◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Cumulative Conditions

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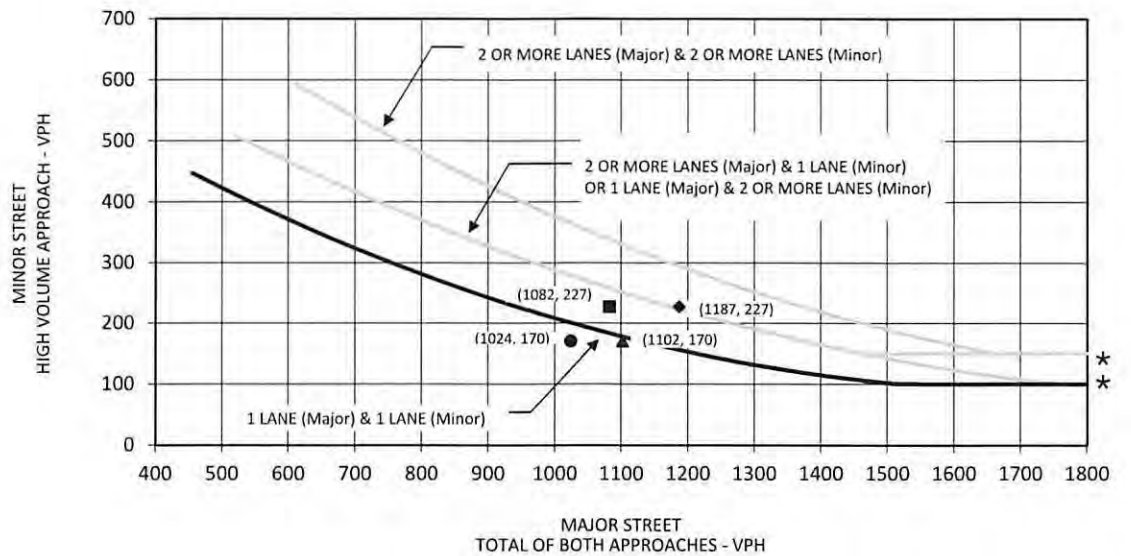
## WARRANT 3, PEAK HOUR




* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

LSA

FIGURE 9-6

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Warrant 3: Peak Hour – Minnewawa Avenue/Perrin Avenue – Near-Term Conditions

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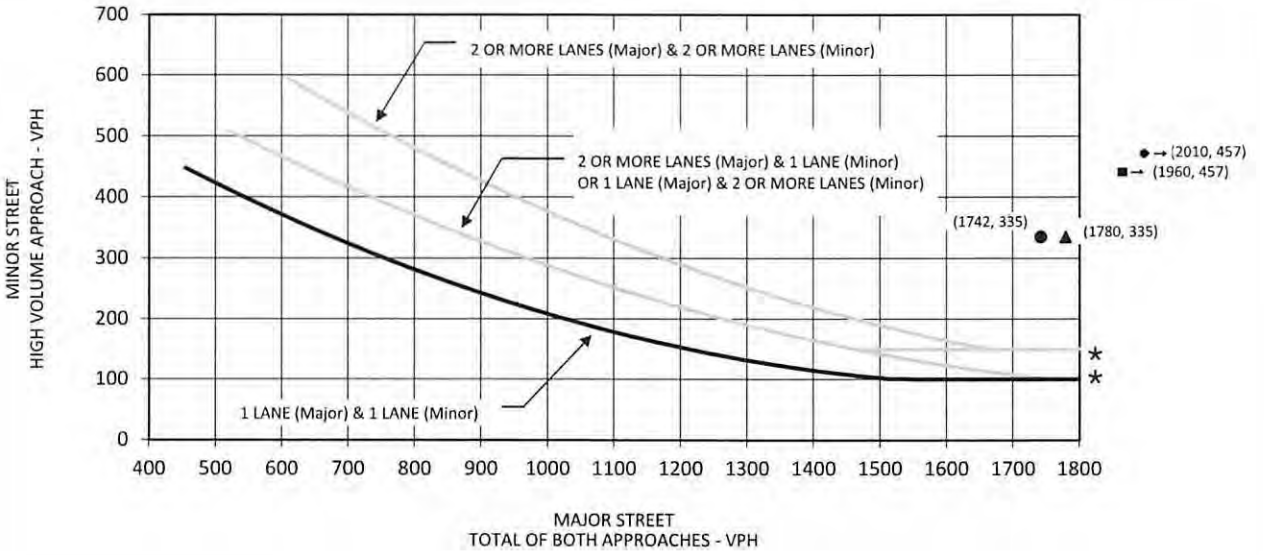
## WARRANT 3, PEAK HOUR




* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

LSA

FIGURE 9-7

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Warrant 3: Peak Hour – Minnewawa Avenue/Perrin Avenue – Cumulative Conditions

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# 10.0 CIRCULATION IMPROVEMENTS AND FUNDING SOURCES

## 10.1 RECOMMENDED IMPROVEMENTS

Improvements have been recommended at study intersections where an operational deficiency has been identified based on the results of the LOS analysis. Table 10.A summarizes the recommended improvements for study intersections for all analysis scenarios. Tables 10.B, 10.C, and 10.D summarize the post-improvement intersection LOS under existing, near-term, and cumulative conditions, respectively. Detailed LOS worksheets are included in Appendix E. Figures 10-1, 10-2, and 10-3 illustrate the with recommended improvements intersection geometrics and traffic control under existing, near-term, and cumulative conditions, respectively.

It should be noted that peak-hour signal warrant analyses have been conducted for the intersections where a signal has been proposed. As such, a signal was only recommended as an improvement if it meets the peak-hour signal warrant.

## 10.2 FUNDING SOURCES AND MECHANISMS

Where there is a funding mechanism (fee program) for the recommended improvements, payment into the fee program would be considered sufficient project obligation to alleviate project-related operational deficiencies. At study locations where the addition of project traffic creates an operational deficiency (existing plus project conditions) and there is no funding mechanism in place, the project will be responsible for the implementation of the improvement. At locations where the project adds to or creates a forecast deficiency and there is no funding mechanism in place, the project is responsible for its fair-share payment.

### 10.2.1 City of Clovis Development Impact Fee Program and Operations

Several recommended improvements are part of City of Clovis operations or Clovis Development Impact Fee (DIF) Program. As such, improvements that proposes optimizing the signal timings or modifications of existing signal operations only would be implemented by City of Clovis operations. Additionally, improvements that are included in the City's DIF program, the project will be paying into this fee program for these improvements. The City currently have three mechanisms within its DIF program which will be responsible for these improvements. Following is a summary of these three mechanisms within the City's DIF program:

- **Traffic Signal Fee:** The Traffic Signal fee pays for the construction and financing of those certain planned traffic signals at the intersection of Major Streets and the interconnecting fiber optic system.
- **Outside Travel Lane Fee:** The Outside Travel Lane fee pays for the construction and financing of those certain planned travel lanes of a Major Street that are located between the frontage improvements and the Center Travel Lanes.
- **Center Travel Lane Fee:** The Center Travel Lane fee pays for the construction and financing of those certain planned travel lanes of a Major Street that are located within the median area. The fee also includes the adjacent travel lane on roads with 4 lanes or less, or the 2 adjacent lanes on 6-lane roads.

### 10.2.2 Fresno County Regional Transportation Mitigation Fee Program

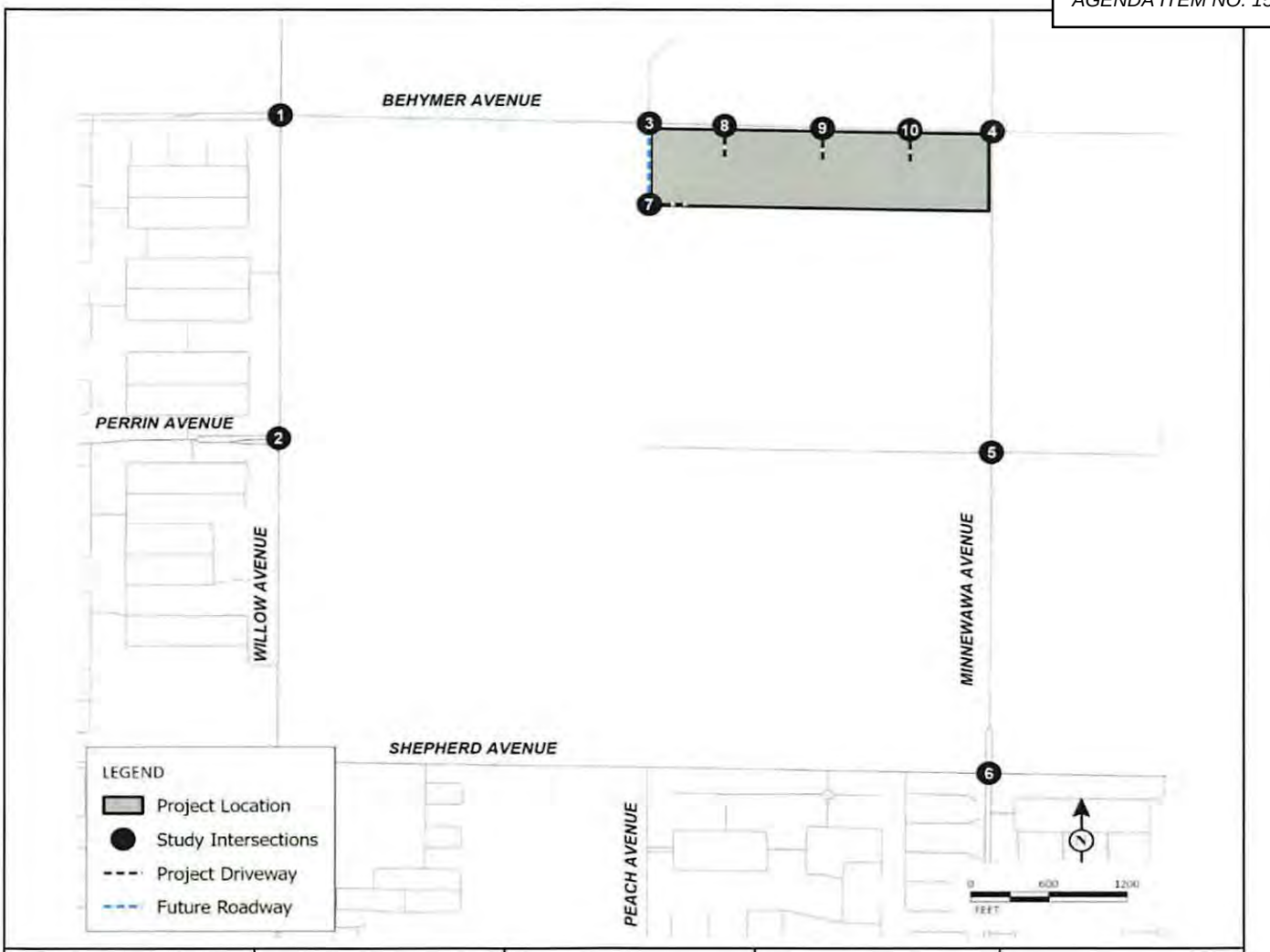
The Fresno County Regional Transportation Mitigation Fee (RTMF) was created to fulfill one of the terms of the Measure 'C' Extension ballot measure, which was approved by Fresno County voters in 2006. The RTMF became effective on January 1, 2010. The RTMF is "intended to ensure that future development contributes to its fair share towards the cost of infrastructure to mitigate the cumulative, indirect regional transportation impacts of new growth in a manner consistent with the provisions of the State of California Mitigation Fee Act". The fees help fund improvements needed to maintain the target level of service in the face of higher traffic volumes brought on by new developments. As such, any new development within Fresno County, including developments within the City are required to pay the RTMF fee based on the adopted fee structure. The project will also be paying the RTMF fee which will help fund improvements and maintenance of the regional roadway network, specifically improvements under Caltrans jurisdiction. However, within the study area none of the intersections are under Caltrans jurisdiction.

### 10.2.3 Project Fair Share

In the absence of a fee program where the project has an impact on the roadway network, the project will pay its respective fair share for the proposed improvements. The project's fair share has been calculated based on project traffic as a percentage of total growth of existing traffic plus project volumes. However, none of the improvements require a fair share payment. Table 10.E summarizes the recommended improvement for the deficient intersections and the corresponding funding mechanism (Clovis Operations and Development Impact Fee).

## 10.3 LIST OF CHAPTER 10.0 FIGURES AND TABLES

- Figure 10-1: Existing Plus Project with Improvements Study Intersection Geometrics and Traffic Control
- Figure 10-2: Near-Term (2028) Plus Project with Improvements Study Intersection Geometrics and Traffic Control
- Figure 10-3: Cumulative (2046) Plus Project with Improvements Study Intersection Geometrics and Traffic Control
- Table 10.A: Recommended Improvements for Intersections
- Table 10.B: Existing Plus Project with Recommended Improvements Intersection Levels of Service
- Table 10.C: Near-Term (2028) Plus Project with Recommended Improvements Intersection Levels of Service
- Table 10.D: Cumulative (2046) Plus Project with Improvements with Recommended Improvements Intersection Levels of Service
- Table 10.E: Intersection Improvement Funding Mechanism



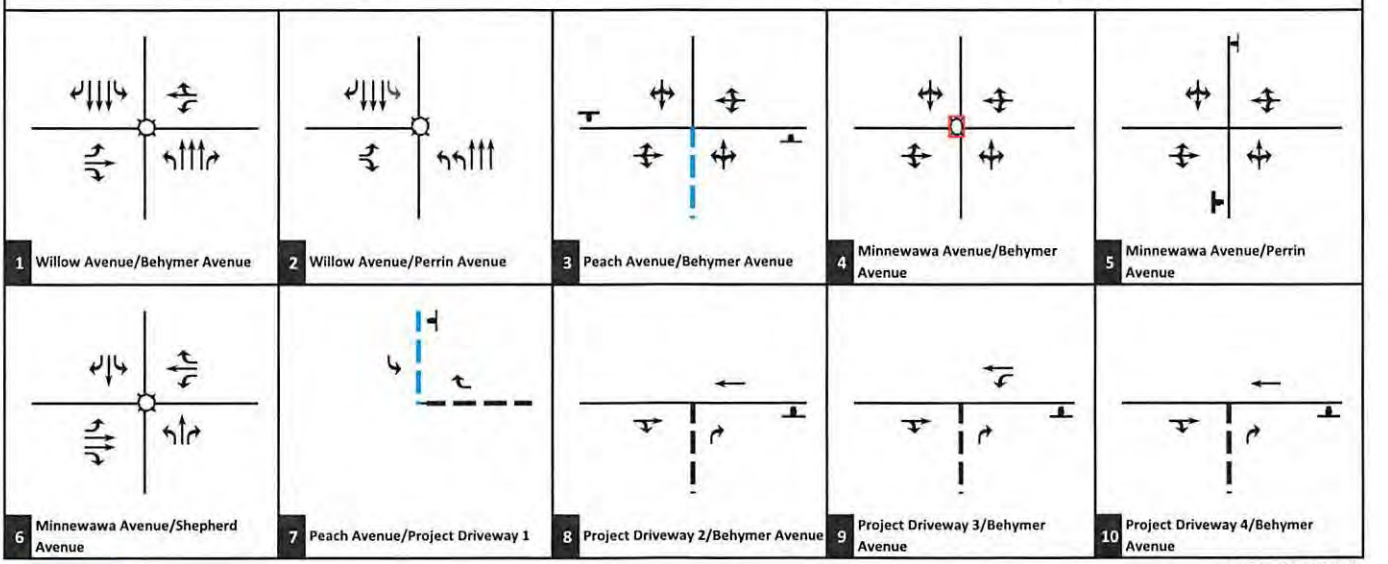




FIGURE 10-1

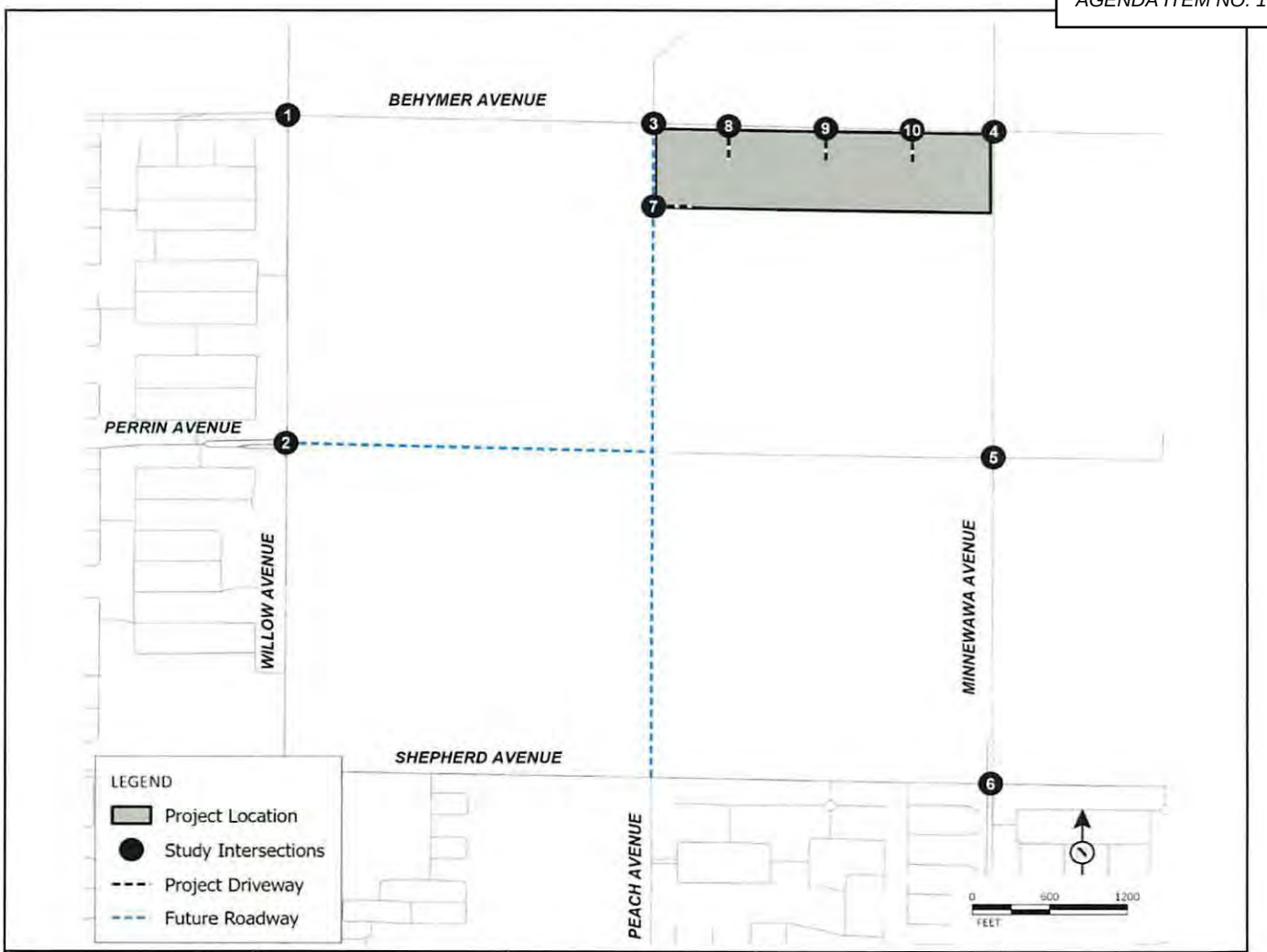
LSA

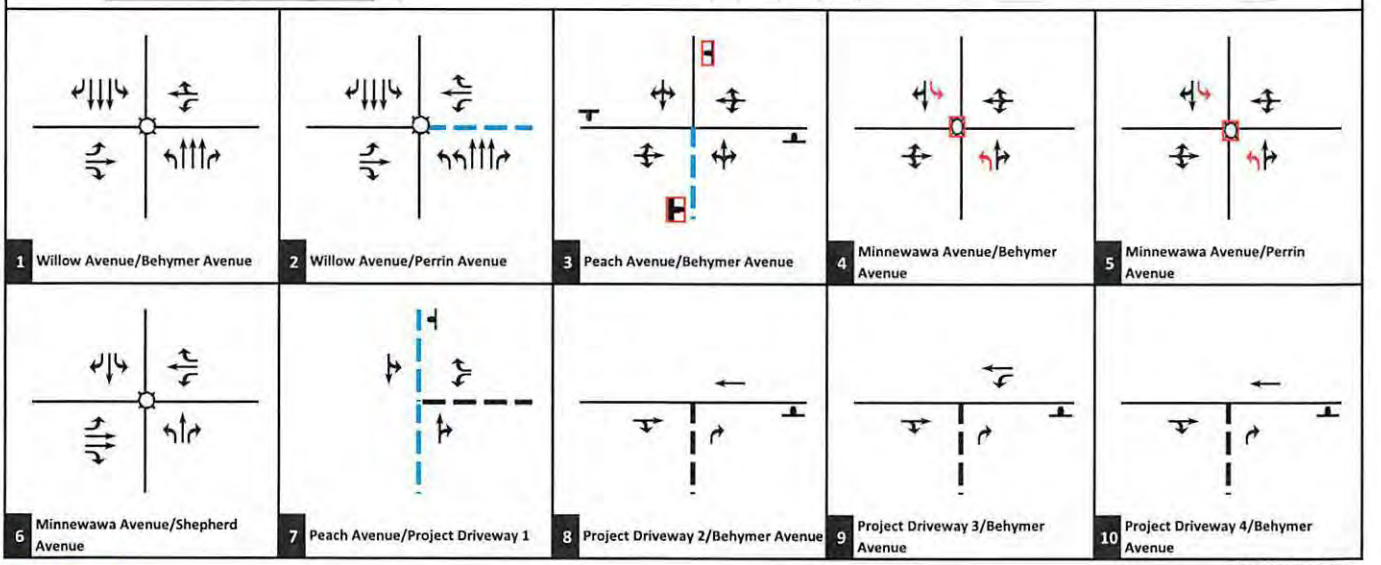
Legend

Signal
Stop Sign
Project Driveway
Future Driveway
U-Turn Movement
Install Traffic Signal
Recommended Improvements

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Existing Plus Project with Improvements Study Intersection Geometrics and Traffic Control




LSA

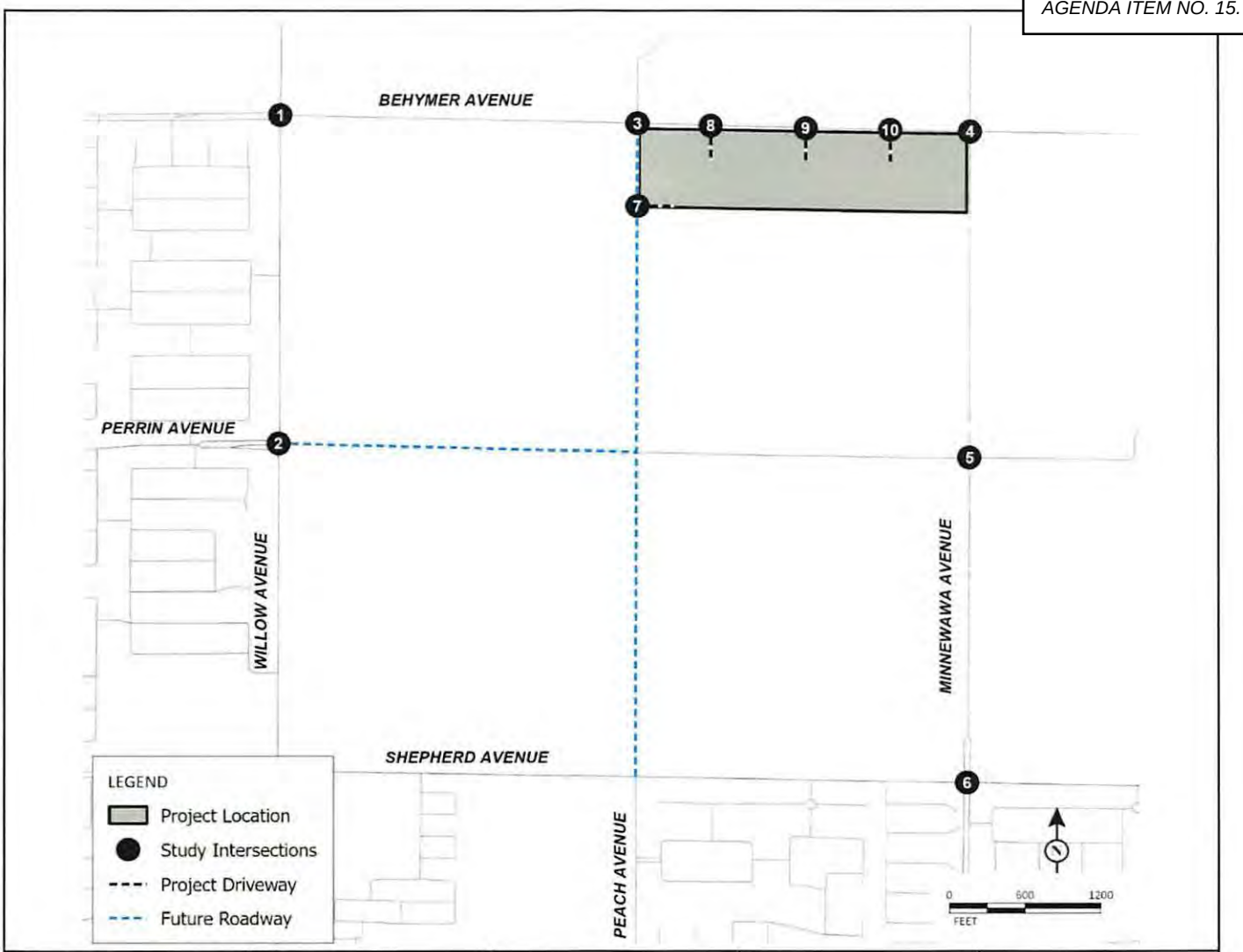
FIGURE 10-2

Legend

Signal
Stop Sign
Project Driveway
Future Driveway
Optimize Signal Timing
Install Traffic Signal
Recommended Improvements

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Near -Term (2028) Plus Project with Improvements Study Intersection Geometrics and Traffic Control



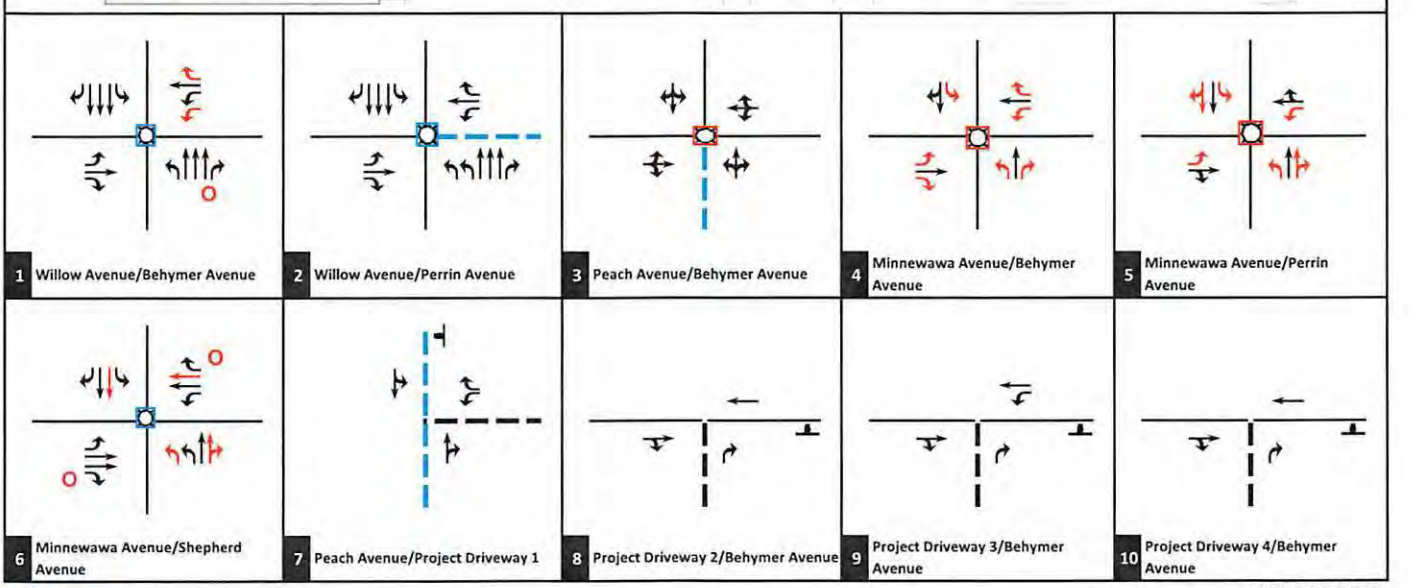




FIGURE 10-3

LSA

Legend

Signal
Stop Sign
Project Driveway
Future Driveway
Optimize Signal Timing
Install Traffic Signal
Recommended Improvements

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Cumulative (2046) Plus Project with Improvements Study Intersection Geometrics and Traffic Control

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LSA

**Table 10.A - Recommended Improvements for Intersections**

| Intersection | Jurisdiction | Existing Plus Project Improvements | Near-Term (2028) Plus Project Improvements | Cumulative (2046) Plus Project Improvements |
|---|---|---|---|---|
| | | | | |
| 1 . Willow Avenue/Behymer Avenue | Clovis/Fresno | | | Add WBL, WBR, NBR overlap. Optimize signal timings. |
| 2 . Willow Avenue/Perrin Avenue | Clovis/Fresno | | | Optimize signal timings. |
| 3 . Peach Avenue/Behymer Avenue | Clovis/Fresno | | Convert to four-way stop controlled. | Install a signal. |
| 4 . Minnewawa Avenue/Behymer Avenue | Clovis/Fresno | Install a signal. | Install a signal with N/S protected phasing . Add NBL, SBL. | Install a signal with N/S protected phasing . Add NBL, continuous NBR, SBL, EBL,EBR, WBL, WBR. |
| 5 . Minnewawa Avenue/Perrin Avenue | Clovis/Fresno | | Install a signal with N/S protected phasing . Add NBL, SBL. | Install a signal with protected phasing. Add NBL, NBTR, SBL, SBTR, EBL, WBL. |
| 6 . Minnewawa Avenue/Shepherd Avenue | Clovis/Fresno | | | Restripe NBR to NBTR. Add NBL, SBT,WBT. Add EBR and WBR overlap phasing. Optimize the signal timing. |
| | | | | |

**Notes:**

NB = Northbound, SB = Southbound, EB = Eastbound, WB = Westbound

L = Left, T = Through, R = Right

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**Table 10.B - Existing Plus Project with Recommended Improvements Intersection Levels of Service**

| Intersection | Jurisdiction | LOS Standard | Plus Project Without Improvements | | | | | Plus Project With Improvements | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | A.M. Peak Hour | | P.M. Peak Hour | | | A.M. Peak Hour | | P.M. Peak Hour | |
| | | | Control | Delay (sec.) | LOS | Delay (sec.) | LOS | Control | Delay (sec.) | LOS | Delay (sec.) | LOS |
| 4 . Minnewawa Avenue/Behymer Avenue | Clovis | D | AWSC | 89.2 | F * | 91.1 | F * | Signal | 9.2 | A | 9.2 | A |

**Notes:**

OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

**Table 10.C - Near-Term (2028) Plus Project with Recommended Improvements Intersection Levels of Service**

| Intersection | Jurisdiction | LOS Standard | Plus Project Without Improvements | | | | | Plus Project With Improvements | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | A.M. Peak Hour | | P.M. Peak Hour | | | A.M. Peak Hour | | P.M. Peak Hour | |
| | | | Control | Delay (sec.) | LOS | Delay (sec.) | LOS | Control | Delay (sec.) | LOS | Delay (sec.) | LOS |
| 3 . Peach Avenue/Behymer Avenue | Clovis | D | TWSC | 30.8 | D | 42.9 | E * | AWSC | 17.0 | C | 17.3 | C |
| 4 . Minnewawa Avenue/Behymer Avenue | Clovis | D | AWSC | 170.6 | F * | >200 | F * | Signal | 20.4 | C | 23.2 | C |
| 5 . Minnewawa Avenue/Perrin Avenue | Clovis | D | TWSC | 198.4 | F * | >200 | F * | Signal | 12.5 | B | 13.3 | B |

**Notes:**

OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

**Table 10.D - Cumulative (2046) Plus Project with Recommended Improvements Intersection Levels of Service**

| Intersection | Jurisdiction | LOS Standard | Plus Project Without Improvements | | | | | | Plus Project With Improvements | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | A.M. Peak Hour | | P.M. Peak Hour | | | | A.M. Peak Hour | | P.M. Peak Hour | |
| | | | Control | Delay (sec.) | LOS | Delay (sec.) | LOS | | Control | Delay (sec.) | LOS | Delay (sec.) | LOS |
| 1 . Willow Avenue/Behymer Avenue | Clovis/Fresno | D | Signal | 139.2 | F * | 158.6 | F * | | Signal | 42.5 | D | 47.9 | D |
| 2 . Willow Avenue/Perrin Avenue | Clovis/Fresno | D | Signal | 35.3 | D | 57.9 | E * | | Signal | 35.3 | D | 52.6 | D |
| 3 . Peach Avenue/Behymer Avenue | Clovis | D | TWSC | >200 | F * | >200 | F * | | Signal | 9.7 | A | 9.8 | A |
| 4 . Minnewawa Avenue/Behymer Avenue | Clovis | D | AWSC | >200 | F * | >200 | F * | | Signal | 21.4 | C | 44.6 | D |
| 5 . Minnewawa Avenue/Perrin Avenue | Clovis | D | TWSC | >200 | F * | >200 | F * | | Signal | 23.8 | C | 22.0 | C |
| 6 . Minnewawa Avenue/Shepherd Avenue | Clovis | D | Signal | 183.7 | F * | >200 | F * | | Signal | 44.0 | D | 52.5 | D |

Notes:

OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

**Table 10.E - Intersection Improvement Funding Mechanism**

| Intersection | Jurisdiction | Recommended Improvements | Funding Mechanism | Improvements Covered by Clovis Development Improvement Fee Program/Operations |
|---|---|---|---|---|
| | | | | |
| 1 . Willow Avenue/Behymer Avenue | Clovis/Fresno | Add WBL, WBR, NBR overlap. Optimize signal timings. | Clovis DIF | Add WBL, WBR, NBR overlap. Optimize signal timings. |
| 2 . Willow Avenue/Perrin Avenue | Clovis/Fresno | Add EBL. Optimize signal timings. | Clovis DIF | Add EBL. Optimize signal timings. |
| 3 Peach Avenue/Behymer Avenue | Clovis/Fresno | Install a signal. | Clovis DIF | Install a signal. |
| 4 Minnewawa Avenue/Behymer Avenue | Clovis/Fresno | Install a signal with N/S protected phasing . Add NBL, continuous NBR, SBL, EBL,EBR, WBL, WBR. | Clovis DIF | Install a signal with N/S protected phasing . Add NBL, continuous NBR, SBL, EBL,EBR, WBL, WBR. |
| 5 Minnewawa Avenue/Perrin Avenue | Clovis/Fresno | Install a signal with protected phasing. Add NBL, NBTR, SBL, SBTR, EBL, WBL. | Clovis DIF | Install a signal with protected phasing. Add NBL, NBTR, SBL, SBTR, EBL, WBL. |
| 6 Minnewawa Avenue/Shepherd Avenue | Clovis/Fresno | Restripe NBR to NBTR. Add NBL, SBT,WBT. Add EBR and WBR overlap phasing. Optimize the signal timing. | Clovis Operations | Restripe NBR to NBTR. Add NBL, SBT,WBT. Add EBR and WBR overlap phasing. Optimize the signal timing. |
| | | | | |

**Notes:**

NB = Northbound, SB = Southbound, EB = Eastbound, WB = Westbound

L = Left, T = Through, R = Right

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# 11.0 INTERSECTION QUEUING ANALYSIS

Tables 11.A, 11.B, and 11.C list the available turn-pocket storage lengths and summarize the 95th percentile back-of-queue lengths at the study intersections under existing, near-term (2028), and cumulative (2046) conditions. The queues for the signalized intersections have been reported from Synchro, while unsignalized intersections, the SimTraffic queues have been reported since Synchro does not appropriately report queues at unsignalized intersections.

Tables 11.D, 11.E, and 11.F lists the 95th percentile back-of-queue lengths at the study intersections for plus project and plus project with improvements conditions, under existing, near-term (2028), and cumulative (2046) scenarios. It also includes the recommended turn-pocket storage lengths at these intersections. The recommended turn pocket storage lengths have been calculated based on recommended lane geometry with improvements and availability of adequate right-of-way.

Detailed queuing worksheets are included in Appendix F.

## 11.1 LIST OF CHAPTER 11.0 TABLES

- Table 11.A: Existing Queuing Analysis
- Table 11.B: Near-Term (2028) Queuing Analysis
- Table 11.C: Cumulative (2046) Queuing Analysis
- Table 11.D: Existing Plus Project with Improvements Queuing Analysis
- Table 11.E: Near-Term (2028) Plus Project with Improvements Queuing Analysis
- Table 11.F: Cumulative (2046) Plus Project with Improvements Queuing Analysis

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## Table 11.A - Existing Queuing Analysis

| Intersection | Movement | Existing Storage Length[1] (ft/ln) | Existing | | | |
|---|---|---|---|---|---|---|
| | | | Without Project[2] | | Plus Project[2] | |
| | | | AM | PM | AM | PM |
| 1. Willow Avenue/Behymer Avenue | **NBL** | 250 | 115 | 140 | 115 | 140 |
| Signal | **NBR** | 105 | 0 | 0 | 0 | 40 |
| | **SBL** | 250 | 85 | 115 | 85 | 125 |
| | **SBR** | 205 | 0 | 0 | 0 | 0 |
| | **EBL** | 230 | 100 | 40 | 100 | 40 |
| | **WBL** | 90 | 50 | 80 | **105** | **115** |
| 2. Willow Avenue/Perrin Avenue | **2x NBL** | 235 | 40 | 70 | 40 | 75 |
| Signal | **NBR** | 145 | -- | -- | -- | -- |
| | **SBL** | 250 | 0 | 0 | 0 | 0 |
| | **SBR** | 130 | 30 | 30 | 30 | 30 |
| 6. Minnewawa Avenue/Shepherd Avenue | **NBL** | 230 | 140 | 130 | 140 | 135 |
| Signal | **SBL** | 260 | 110 | 65 | 140 | 85 |
| | **SBR** | 15 | 0 | 0 | 0 | 0 |
| | **EBL** | 230 | 55 | 60 | 55 | 60 |
| | **EBR** | 45 | **70** | **55** | **75** | **55** |
| | **WBL** | 220 | 30 | 15 | 30 | 15 |
| | **WBR** | 60 | **80** | 40 | **90** | **65** |

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

**Bold** = Queue exceeds available storage.

[1] Storage length for all movements obtained from Google Earth measurements.

[2] All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

LSA

## Table 11.B - Near-Term (2028) Queuing Analysis

| Intersection | Movement | Existing Storage Length[1] (ft/ln) | Near Term Year (2028) Plus Project [2] AM | Near Term Year (2028) Plus Project [2] PM |
|---|---|---|---|---|
| 1. Willow Avenue/Behymer Avenue | **NBL** | 250 | 170 | 240 |
| Signal | **NBR** | 105 | 35 | 100 |
| | **SBL** | 250 | 110 | 170 |
| | **SBR** | 205 | 0 | 0 |
| | **EBL** | 230 | 105 | 45 |
| | **WBL** | 90 | **275** | **310** |
| 2. Willow Avenue/Perrin Avenue | **2x NBL** | 235 | 80 | 110 |
| Signal | **NBR** | 145 | 35 | 30 |
| | **SBL** | 250 | 45 | 55 |
| | **SBR** | 130 | 75 | 40 |
| | **EBL** | 230 | 215 | **245** |
| | **WBL** | 100 | **125** | **160** |
| | **WBR** | 100 | 0 | 0 |
| 6. Minnewawa Avenue/Shepherd Avenue | **NBL** | 230 | **285** | **455** |
| Signal | **SBL** | 260 | **325** | 210 |
| | **SBR** | 15 | **100** | **110** |
| | **EBL** | 230 | 150 | **250** |
| | **EBR** | 45 | **180** | **160** |
| | **WBL** | 220 | 80 | 65 |
| | **WBR** | 60 | **185** | **200** |

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

**Bold** = Queue exceeds available storage.

[1] Storage length for all movements obtained from Google Earth measurements.

[2] All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

LSA

## Table 11.C - Cumulative (2046) Queueing Analysis

| Intersection | Movement | Existing Storage Length[1] (ft/ln) | Cumulative (2046) | | | |
|---|---|---|---|---|---|---|
| | | | Without Project[2] | | Plus Project[2] | |
| | | | AM | PM | AM | PM |
| 1 . Willow Avenue/Behymer Avenue | **NBL** | 250 | **275** | **345** | **275** | **345** |
| Signal | **NBR** | 105 | 90 | **530** | 90 | **535** |
| | **SBL** | 250 | 190 | **405** | 195 | **415** |
| | **SBR** | 205 | 0 | 0 | 0 | 0 |
| | **EBL** | 230 | 115 | 45 | 115 | 45 |
| | **WBL** | 90 | **885** | **920** | **885** | **915** |
| 2 . Willow Avenue/Perrin Avenue | **2x NBL** | 235 | 110 | 225 | 110 | 225 |
| Signal | **NBR** | 145 | 46 | 145 | 50 | 145 |
| | **SBL** | 250 | 75 | 215 | 75 | 215 |
| | **SBR** | 130 | **225** | 125 | **225** | 125 |
| | **EBL** | 230 | **295** | **615** | **295** | **615** |
| | **WBL** | 100 | **220** | **300** | **220** | **300** |
| | **WBR** | 100 | 15 | 45 | 15 | 45 |
| 6 . Minnewawa Avenue/Shepherd Avenue | **NBL** | 230 | **430** | **840** | **430** | **840** |
| Signal | **SBL** | 260 | **510** | **280** | **510** | **280** |
| | **SBR** | 15 | **190** | **195** | **190** | **195** |
| | **EBL** | 230 | 210 | **530** | 210 | **530** |
| | **EBR** | 45 | **560** | **340** | **560** | **340** |
| | **WBL** | 220 | 155 | 85 | 155 | 85 |
| | **WBR** | 60 | **325** | **300** | **325** | **300** |

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

**Bold** = Queue exceeds available storage.

[1] Storage length for all movements obtained from Google Earth measurements.

[2] All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

LSA

## Table 11.D - Existing Plus Project with Improvements Queuing Analysis

| Intersection | Movement | Existing Storage Length[1] (ft/ln) | Plus Project Recommended Storage Length[1] (ft/ln) | Existing Plus Project with Improvements[2] AM | Existing Plus Project with Improvements[2] PM |
|---|---|---|---|---|---|
| | | | | | |
| 1. Willow Avenue/Behymer Avenue | **NBL** | 250 | 300 | 115 | 140 |
| Signal | **NBR** | 105 | 455 | 0 | 40 |
| | **SBL** | 250 | 415 | 85 | 125 |
| | **SBR** | 205 | 205 | 0 | 0 |
| | **EBL** | 230 | 230 | 100 | 40 |
| | **WBL** | 90 | 355 | 105 | 115 |
| | | | | | |
| | | | | | |
| 2. Willow Avenue/Perrin Avenue | **2x NBL** | 235 | 235 | 40 | 75 |
| Signal | **NBR** | 145 | 145 | -- | -- |
| | **SBL** | 250 | 250 | -- | -- |
| | **SBR** | 130 | 225 | 30 | 30 |
| | **EBL** | -- | -- | -- | -- |
| | **EBR** | -- | -- | -- | -- |
| | | | | | |
| | | | | | |
| 6. Minnewawa Avenue/Shepherd Avenue | **NBL** | 230 | 230 | 145 | 135 |
| Signal | **SBL** | 260 | 425 | 145 | 85 |
| | **SBR** | 15 | 150 | 0 | 0 |
| | **EBL** | 230 | 500 | 60 | 60 |
| | **EBR** | 45 | 45 | **75** | **55** |
| | **WBL** | 220 | 220 | 30 | 15 |
| | **WBR** | 60 | 175 | 50 | 45 |
| | | | | | |

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

**Bold** = Queue exceeds available storage.

[1] Storage length for all movements obtained from Google Earth measurements.

[2] All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

LSA

## Table 11.E - Near-Term (2028) Plus Project with Improvements Queuing Analysis

| Intersection | Movement | Existing Storage Length[1] (ft/ln) | Plus Project Recommended Storage Length[1] (ft/ln) | Near Term Year (2028) Plus Project with Improvements[2] AM | PM |
|---|---|---|---|---|---|
| 1. Willow Avenue/Behymer Avenue | NBL | 250 | 300 | 170 | 240 |
| Signal | NBR | 105 | 455 | 35 | 60 |
| | SBL | 250 | 415 | 110 | 170 |
| | SBR | 205 | 205 | 0 | 0 |
| | EBL | 230 | 230 | 105 | 45 |
| | WBL | 90 | 355 | 275 | 310 |
| 2. Willow Avenue/Perrin Avenue | 2x NBL | 235 | 235 | 80 | 110 |
| Signal | NBR | 145 | 145 | 15 | 30 |
| | SBL | 250 | 250 | 45 | 55 |
| | SBR | 130 | 225 | 55 | 40 |
| | EBL | 230 | 250 | 215 | 245 |
| | EBR | -- | -- | -- | -- |
| | WBL | 100 | 300 | 125 | 160 |
| | WBR | 100 | 100 | 0 | 0 |
| 4. Willow Avenue/Perrin Avenue | NBL | -- | 300 | 115 | 160 |
| Signal | NBR | -- | -- | 170 | 175 |
| | SBL | -- | 350 | -- | -- |
| | EBL | -- | 100 | -- | -- |
| | EBR | -- | 125 | -- | -- |
| | WBL | -- | 100 | -- | -- |
| | WBR | -- | 175 | -- | -- |
| 5. Minnewawa Avenue/Perrin Avenue | NBL | -- | 175 | 55 | 105 |
| Signal | SBL | -- | 100 | 10 | 5 |
| | EBL | -- | 175 | -- | -- |
| | WBL | -- | 100 | -- | -- |
| 6. Minnewawa Avenue/Shepherd Avenue | NBL | 230 | 230 | **285** | **420** |
| Signal | SBL | 260 | 425 | 325 | 210 |
| | SBR | 15 | 150 | 100 | 75 |
| | EBL | 230 | 500 | 150 | 315 |
| | EBR | 45 | 45 | **190** | **185** |
| | WBL | 220 | 220 | 185 | 65 |
| | WBR | 60 | 175 | 100 | 105 |

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

**Bold** = Queue exceeds available storage.

[1] Storage length for all movements obtained from Google Earth measurements.

[2] All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

LSA

## Table 11.F - Cumulative (2046) Plus Project with Improvements Queuing Analysis

| Intersection | Movement | Existing Storage Length[1] (ft/ln) | Plus Project Recommended Storage Length[1] (ft/ln) | Cumulative (2046) Plus Project with Improvements[2] | |
|---|---|---|---|---|---|
| | | | | AM | PM |
| 1. Willow Avenue/Behymer Avenue | NBL | 250 | 300 | 300 | 265 |
| Signal | NBR | 105 | 455 | 55 | 455 |
| | SBL | 250 | 415 | 215 | 410 |
| | SBR | 205 | 205 | 0 | 0 |
| | EBL | 230 | 230 | 140 | 45 |
| | WBL | 90 | 355 | 340 | 355 |
| | WBR | -- | 150 | 105 | 65 |
| 2. Willow Avenue/Perrin Avenue | 2x NBL | 235 | 235 | 110 | 170 |
| Signal | NBR | 145 | 145 | 50 | 145 |
| | SBL | 250 | 250 | 75 | 200 |
| | SBR | 130 | 225 | 225 | 75 |
| | 2x EBL | 230 | 250 | **295** | **555** |
| | EBR | -- | -- | -- | -- |
| | WBL | 100 | 300 | 220 | **315** |
| | WBR | 100 | 100 | 15 | 5 |
| 4. Minnewawa Avenue/Behymer Avenue | NBL | -- | 300 | 115 | 290 |
| Signal | NBR | -- | -- | 10 | 35 |
| | SBL | -- | 350 | 130 | 330 |
| | EBL | -- | 100 | 25 | 35 |
| | EBR | -- | 125 | 45 | 120 |
| | WBL | -- | 100 | 65 | 85 |
| | WBR | -- | 150 | 100 | 120 |
| 5. Minnewawa Avenue/Perrin Avenue | NBL | -- | 175 | 135 | 165 |
| Signal | SBL | -- | 100 | 10 | 15 |
| | EBL | -- | 175 | 125 | 155 |
| | WBL | -- | 100 | 35 | 35 |
| 6. Minnewawa Avenue/Shepherd Avenue | NBL | 230 | 230 | 165 | **295** |
| Signal | SBL | 260 | 425 | 415 | 335 |
| | SBR | 15 | 150 | 140 | 120 |
| | EBL | 230 | 500 | 255 | 480 |
| | EBR | 45 | 45 | **470** | **305** |
| | WBL | 220 | 220 | 190 | 80 |
| | WBR | 60 | 175 | 175 | 175 |

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## Table 11.F - Cumulative (2046) Plus Project with Improvements Queuing Analysis

| Intersection | Movement | Existing Storage Length[1] (ft/ln) | Plus Project Recommended Storage Length[1] (ft/ln) | Cumulative (2046) Plus Project with Improvements[2] | |
|---|---|---|---|---|---|
| | | | | AM | PM |
| 9. Project Driveway 3/Behymer Avenue | **WBL** | -- | 100 | 20 | 45 |
| OWSC | | | | | |

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

**Bold** = Queue exceeds available storage.

1 Storage length for all movements obtained from Google Earth measurements.

2 All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

# 12.0 SITE DISTANCE ANALYSIS AND SAFE ROUTES TO SCHOOL ANALYSIS

As discussed previously and shown on Figure 1-2, access to the project will be provided by four driveways: one full-access driveway on future Peach Avenue and two RIRO access and one right-in-right-out-left-in driveway along Behymer Avenue.

## 12.1 SIGHT DISTANCE ANALYSIS

A sight distance analysis was conducted at the project driveways along Behymer Avenue and future roadway on Peach Avenue. Sight distance is the length of the visible roadway a driver can see approaching vehicles before their line of sight is blocked by any object. For purposes of this analysis, only the stopping sight distance and corner sight distance have been evaluated. That is because those are the only two sight distance issues that would affect safe maneuver of ingress/egress traffic from the project driveway.

According to the Caltrans *Highway Design Manual* (HDM) (dated July 2020), the stopping sight distance is the minimum sight distance along a roadway required to allow a driver to decrease their speed from the design speed to a complete stop. The corner sight distance is the minimum sight distance in which a driver at a stop-controlled approach can see oncoming traffic on the major street to safely maneuver onto the roadway.

The stopping sight distance was evaluated on the roadways along the project frontage (i.e., Peach Avenue and Behymer Avenue). For purposes of this analysis, the posted speed limit of 30 mph has been considered as the design speed for Peach Avenue and the posted speed limit is 40 mph on Behymer Avenue. As stated in Table 201.1 of the HDM, the minimum stopping sight distance is 200 feet for a design speed of 30 mph and 300 feet for a design speed of 40 mph. Therefore, the minimum stopping sight distance has been considered as 200 feet for Project Driveway 1 (along Peach Avenue) and 300 feet for Project Driveway 2, Project Driveway 3, and Project Driveway 4 (along Behymer Avenue).

As for corner sight distance, Section 405.1 of the HDM states that corner sight distance requirements are not applicable for urban driveways unless signalized. However, as a conservative approach, corner sight distance were also evaluated for the project driveway. The minimum corner sight distance was based on design speed, time gap, and type of vehicles from the minor roads (project driveways) to enter the major roads (Peach Avenue and Behymer Avenue). Based on the requirements established in the HDM, it was determined that a minimum corner sight distance of 335 feet would be required for left-turn maneuvers coming out of Project Driveway 1. Furthermore, a minimum corner sight distance of 290 feet would be required for right-turn maneuvers coming out of Project Driveway 1 and 385 feet would be required for right-turn maneuvers coming out of Project Driveway 2, Project Driveway 3, and Project Driveway 4.

Since the corner sight distance required at the project driveway would be greater than the stopping sight distance, sight triangle figures were created using the corner sight distance. As a conservative measure, left-turn corner sight distance was used for both right- and left-turn sight triangles for the project driveway 1. As illustrated in Figure 12-1, Project Driveway 1 will provide adequate sight

distance for left- and right-turn maneuvers onto Peach Avenue. Similarly, as illustrated in Figure 12-2, Figure 12-3 and Figure 12-4, the Project Driveways will provide adequate sight distance for right-turn maneuvers onto Behymer Avenue.

## 12.2 SAFE ROUTES TO SCHOOL

The project will be under the jurisdiction of the Clovis Unified School District (CUSD). The CUSD provides transportation for students who live in excess of an established radius zone. The zones are a radius of 1.00 mile for grades Kindergarten through 6$^{th}$ and 2.50 miles for grades 7$^{th}$ through 12$^{th}$.

The nearest elementary school is Riverview Elementary School, which is located at the southeast corner of the intersection of Chestnut Avenue/Behymer Avenue. The distance between the project corner and the school along Chestnut Avenue/Behymer Avenue is approximately 0.9 mile. Therefore, it is estimated that children from the project will be accessing the elementary school by car, bike, or by walking. This school can be accessed from the project site by traveling west along Behymer Avenue to the intersection of Willow Avenue/Behymer Avenue and continuing west along Beymer Avenue to the intersection of Chestnut Avenue/Behymer Avenue.

It should be noted that the project is within the vicinity of the proposed Heritage Grove Specific Plan project. Based on the project description of the Specific Plan, an elementary school is being proposed within Planning Area 9 of the Specific Plan. Though the completion date for this elementary school is still undetermined, elementary school students from the project are anticipated to attend this school once completed. This new school will be within close proximity of the project site. The Heritage Grove Specific Plan project will also be constructing sidewalks and bike lanes as part of internal circulation network to provide safe route for walking and biking to school. As such, no further safety improvements may be required for the elementary school students upon construction of this elementary school.

Currently, sidewalks are present along both sides of Behymer Avenue between Chestnut and Willow Avenue. The project will be adding sidewalks along Behymer Avenue along the project frontage. The intersections of Willow Avenue/Behymer Avenue and Chestnut Avenue/Behymer Avenue are signalized intersections with marked crosswalks for pedestrians. As such, with these proposed improvements, people could safely walk using the sidewalks described above and also could safely cross these intersections when permitted without any conflicting vehicular movements. The intersection of Peach Avenue/Behymer Avenue is currently stop controlled along the minor lanes. However, a signal has been recommended at this intersection. Therefore, a signal will be installed at this intersection with marked crosswalks and other safety improvements. As such, a safe walking route to the elementary school would be present for elementary school students from the project.

The nearest middle school from the project is Granite Ridge Intermediate School and nearest high school is the Clovis North High School, both of which are located at the northwest corner of the intersection of Willow Avenue/International Avenue. The distance between the schools and the project is approximately 1 mile and additionally, the project is included within the school's walking radius area. The most direct connection to these schools from the project is using the same routes toward Riverview Elementary School and continue northbound on Willow Avenue. Clovis Old Town Trail is present on the southbound direction of Willow Avenue between Behymer Avenue and

International Avenue. Additionally, the intersection of Willow Avenue/International Avenue is a signalized intersection with a marked crosswalk. As such, a safe walking route would exist between the project and the schools and no further safety improvements will be required.

## 12.3 LIST OF CHAPTER 12.0 FIGURES


- Figure 12-1: Sight Distance Analysis at Peach Avenue/Project Driveway 1
- Figure 12-2: Sight Distance Analysis at Project Driveway 2/Behymer Avenue
- Figure 12-3: Sight Distance Analysis at Project Driveway 3/Behymer Avenue
- Figure 12-4: Sight Distance Analysis at Project Driveway 4/Behymer Avenue




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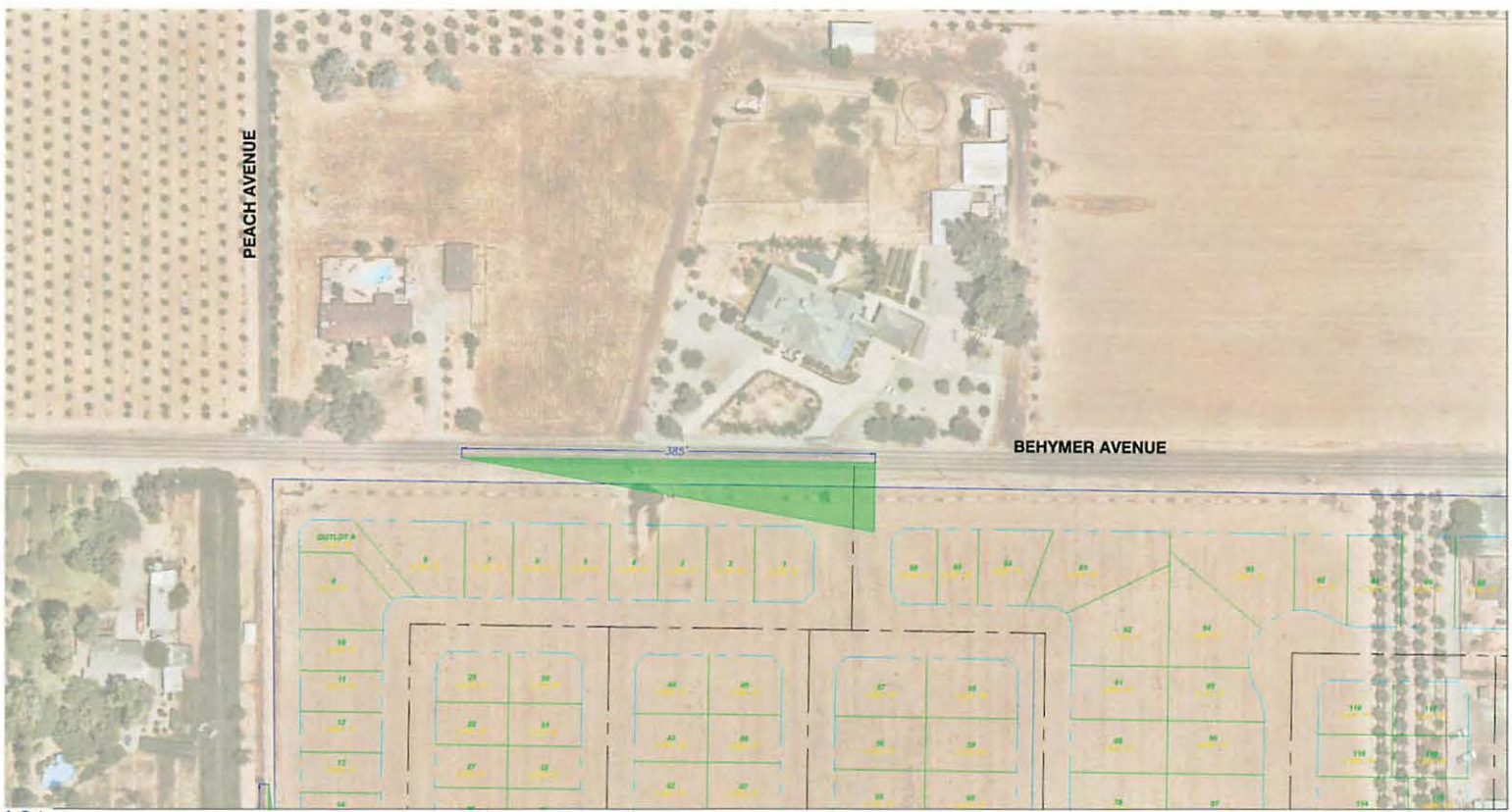
FIGURE 12-1

0 50' 100'
FEET

SOURCE: De Young Properties, February 2024.
P:\20231181 De Young Annexation\Sight Access\Sight Access.dwg (8/12/2024)

*De Young Properties Peach and Behymer Project*
*Transportation Impact Study*

Sight Distance Analysis at Peach Avenue/Project Driveway 1




LSA

FIGURE 12-2

*De Young Properties Peach and Behymer Project*
*Transportation Impact Study*

Sight Distance Analysis at Project Driveway 2/Behymer Avenue

SOURCE: De Young Properties, February 2024.
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LSA

FIGURE 12-3

0 40' 80'
FEET

SOURCE: De Young Properties, February 2024.
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*De Young Properties Peach and Behymer Project*
*Transportation Impact Study*

Sight Distance Analysis at Project Driveway 3/Behymer Avenue




LSA

FIGURE 12-4

*De Young Properties Peach and Behymer Project*
*Transportation Impact Study*

Sight Distance Analysis at Project Driveway 4/Behymer Avenue

SOURCE: De Young Properties, February 2024.
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# 13.0 SUMMARY AND CONCLUSIONS

The proposed project will consist of 266 single-family homes on approximately 37 acres of the site. The remaining 32,974 sf of the site will be used for park space. It is anticipated that the project buildout will occur in year 2028. Access to the project will be provided by four driveways.

## 13.1 VEHICLE MILES TRAVELED ANALYSIS SUMMARY

The project's VMT per capita is 14.9 which is 5.5 percent higher than the City's VMT per capita threshold. Therefore, based on the TIA Guidelines, the project will have a significant VMT impact. However, given the project is consistent with the City's General Plan, it would fall under the Statement of Overriding Considerations for the City's General Plan EIR and would implement the mitigation measures recommended in the EIR. As such, the project would not require any additional mitigation measures than what has been recommended in the General Plan EIR.

## 13.2 EXISTING CONDITIONS SUMMARY

All study intersections operate at a satisfactory LOS under existing without and plus project conditions with the exception of intersection at Minnewawa Avenue/Behymer Avenue.

## 13.3 NEAR-TERM (2028) CONDITIONS SUMMARY

All intersections are forecast to operate at a satisfactory LOS under near-term (2028) plus project conditions with the exception of 3 intersections.

## 13.4 CUMULATIVE (2046) CONDITIONS SUMMARY

All intersections are forecast to operate at a satisfactory LOS under cumulative (2046) without and plus project conditions with the exception of 6 intersections.

## 13.5 IMPROVEMENTS SUMMARY

Based on the improvements discussed in Section 10.1 'Recommended Improvements', of this report, all intersections are estimated to operate satisfactorily. All of the recommended circulation improvements are covered by the Clovis Operations and Development Impact Fee.

## 13.6 QUEUEING ANALYSIS SUMMARY

The recommended storage lengths have been proposed at intersections based on the availability of right-of-way and 95th percentile back-of-queue lengths at the study intersections.

## 13.7 SIGHT DISTANCE ANALYSIS SUMMARY

A sight distance analysis was conducted at the project driveways. Based on the sight distance analysis, the proposed project driveways achieve adequate sight distances and have clear sight triangles for the drivers.

## 13.8 SAFE ROUTES TO SCHOOL ANALYSIS SUMMARY

The project is well connected with the nearby elementary school, intermediate school and the high school for non-motorized modes of commute due to existing and proposed sidewalks as well as signalized intersections with marked crosswalks.

# APPENDIX A

# SCOPING AGREEMENT

LSA

CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

April 19, 2024

Mr. Sean K. Smith
Supervising Civil Engineer
Engineering Division, City of Clovis
1033 Fifth Street
Clovis, California 93612

Subject: Scope of Work for De Young Properties Peach and Behymer Project Transportation Impact Analysis (LSA Project No. 20231181)

Dear Sean:

LSA will be preparing a Transportation Impact Analysis (TIA) for the De Young Properties Peach and Behymer Project (project) in Clovis (City). The approximately 37 acres project site is located at the southwest corner of Minnewawa Avenue and Behymer Avenue on parcels 556-01-028 and 556-01-029. The project site is currently occupied by one residential unit and agricultural uses. Figure 1 (all figures, tables, and appendices attached) illustrates the regional and project location.

The proposed project is located within City's sphere of influence (SOI) and within the northwest urban center growth area. The project is proposing to annex approximately 37 acres from Fresno County into the City and includes the development of 266 single family dwelling units and 32,974 square-feet (sf) of park space. Figure 2 illustrates the tentative subdivision map for the residential development in the project. Access to the project site will be provided via four project driveways – one on future extension of Peach Avenue, and three on Behymer Avenue. The following provides a brief description of proposed access controls for all project driveways:

- Project Driveway 1: This driveway will be located along Peach Avenue and will be a full access driveway.
- Project Driveway 2: This driveway will be located along Behymer Avenue and will be a right-in-right-out (RIRO) only driveway.
- Project Driveway 3: This driveway will be located along Behymer Avenue and will be a right-in-right-out-left-in driveway. Left-out access will be restricted.
- Project Driveway 4: This driveway will be located along Behymer Avenue and will be a RIRO only driveway.

It should be noted that the project is also anticipated to have connections to adjacent future residential development located immediately south of the project site.

The City requires preparation of TIAs using the City of Clovis *Transportation Impact Analysis Guidelines* for land uses projects within the City. As recommended in the City's TIA Guidelines, a Local Transportation Analysis (LTA) would be required for City's General Plan consistency

requirement purposes, while a vehicle Miles Traveled Analysis will be required for California Environmental Quality Act (CEQA) Transportation Impact Assessment purposes. As such, LSA anticipates that the following scope of work will be required to prepare the TIA for the proposed project.

## LOCAL TRANSPORTATION ANALYSIS

### Study Area Intersections

An LTA will be prepared to satisfy the requirements established by the City's TIA Guidelines to evaluate the project's effect on General Plan level of service (LOS) requirements. Traffic operations at all study intersections will be analyzed during the weekday a.m. and p.m. peak hours. The a.m. peak hour is defined as the one-hour period of the highest traffic volume occurring between 7:00 and 9:00 a.m. while the p.m. peak hour is defined as the one-hour period of the highest traffic volume occurring between 4:00 and 6:00 p.m. Intersection LOS will be calculated using the *Highway Capacity Manual* 7th Edition (HCM 7) analysis methodologies and by using the Synchro 12 software.

As per the City's TIA guidelines, the extent of the study area should include the following:

- Pedestrian, bicycle, and transit facilities within a half-mile distance from the project site boundary;
- All intersections of major streets that would provide direct access to the project;
- All signalized intersections within one-half mile of the project site boundary where the project would add 50 or more peak hour trips, and signalized intersections beyond one-half mile where the project would add 100 or more peak hour trips; and
- All unsignalized intersections within a half-mile of the project site boundary where the project would add more than 50 peak hour trips.

As such, the TIA will examine the following intersections:

1. Willow Avenue/Behymer Avenue (City of Clovis/City of Fresno);
2. Willow Avenue/Perrin Avenue (City of Clovis/City of Fresno);
3. Peach Avenue/Behymer Avenue (City of Clovis);
4. Minnewawa Avenue/Behymer Avenue (City of Clovis);
5. Minnewawa Avenue/Shepherd Avenue (City of Clovis);
6. Peach Avenue/Perrin Avenue [Future intersection] (City of Clovis);
7. Peach Avenue/Project Driveway 1 (City of Clovis);
8. Project Driveway 2/Behymer Avenue (City of Clovis);
9. Project Driveway 3/Behymer Avenue (City of Clovis); and
10. Project Driveway 4/Behymer Avenue (City of Clovis).

Figure 3 illustrates the study area intersections.

## Project Trip Generation, Trip Distribution, and Trip Assignment

The trip generation for the proposed project was developed using rates from the Institute of Transportation Engineers (ITE) *Trip Generation Manual* (11th Edition) for Land Uses 210 - "Single-Family Detached Housing – Setting/Location General Urban/Suburban." The project trip generation is summarized in Table A. The project is anticipated to generate 2,508 total daily trips, with 186 trips occurring during the a.m. peak hour and 250 trips occurring during the p.m. peak hour.

The project trip distribution patterns were derived from the select zone model run obtained from the Fresno Council of Governments' (COG's) Activity-Based Model (ABM). The select zone model plot is included in Appendix A. This was further refined to reflect existing and future circulation network in the vicinity of the proposed project.

Currently, within the project vicinity, Peach Avenue, north of Shepherd Avenue, and Perrin Avenue east of Willow Avenue, are yet to be constructed. As such, it is estimated that this segment of Peach Avenue (between southern end of the project and Shepherd Avenue) along with Perrin Avenue east of Willow Avenue (between Willow Avenue and Peach Avenue) would be constructed along with other major developments within the area as part of the Heritage Grove Specific Plan Project envelop. However, since there is no determined timeline for these circulation improvements, two separate project trip distribution patterns were developed for the project, one for existing and near-term scenario, which reflects the existing circulation network in the project vicinity, and another for cumulative long-term scenario, which accounts for completion of Peach Avenue, Clovis Avenue and Perrin Avenue, among other circulation network improvements.

Additionally, as previously mentioned, upon completion of the adjacent residential projects south of the project limit, project trips may utilize the expanded circulation network to travel south and access Peach Avenue, Perrin Avenue or Minnewawa Avenue. However, as a conservative estimate since these developments are yet to be developed and the circulation network is not finalized, it was estimated that all project trips will be utilizing the four project driveways. This would provide a more conservative estimate in determination of operational efficiencies at the project driveways.

Figure 4 illustrates the existing and near-term project trip distribution. Figure 5 illustrates the cumulative scenario project trip distribution. The project trip assignment at the study area intersections is the product of the project trip generation and the corresponding trip distribution percentages. Figure 6 illustrates the existing and near-term conditions project trip assignment at the study area intersections. Figure 7 illustrates the cumulative conditions project trip assignment at the study area intersections.

## Analysis Scenarios

The LTA will be prepared based on consultation with City staff and meet the requirements recommended in the City's TIA Guidelines. As recommended in the City's TIA Guidelines, the LOS analysis will examine traffic operations at the study intersections under the following scenarios:

- Existing Conditions;
- Existing Plus Project Conditions;

- Near-Term Plus Project Conditions;
- Cumulative Long-Range Without Project Conditions; and
- Cumulative Long-Range Plus Project Conditions.

## Volume Development and Analysis Methodology

Traffic volumes for existing conditions will be developed using existing count data collected at study intersections.

Traffic volumes under near-term plus project conditions will be developed by adding traffic volumes from approved and pending development projects located near the study area and project traffic to existing traffic volumes. LSA will contact City staff and adjacent jurisdictions for a list of approved and pending development projects that are estimated to be completed by the project completion year.

Traffic volumes for cumulative year without project conditions will be developed by using forecast volumes obtained from the Fresno COG ABM. The methodology to develop cumulative year without project traffic volumes at study area intersections will be consistent with the COG's procedures for post-processing of modeled traffic volumes.

Existing and cumulative year plus project traffic volumes will be developed by adding project traffic to the traffic volumes for the corresponding without project scenarios.

For all analysis scenarios, intersection LOS will be calculated using the *Highway Capacity Manual* 7th Edition (HCM 7) analysis methodologies and by using the Synchro 12 software.

## Intersection Queuing Analysis

An intersection queuing analysis will be performed at all study intersections. The queuing analysis will be performed using Synchro for signalized intersections and using SimTraffic for unsignalized intersections.

## Analysis of Traffic Operations and Recommended Circulation Improvements

LOS without the project will be compared with LOS under plus project scenarios for all analysis scenarios to determine operational deficiencies based on the LOS standards and operational deficiency criteria as applicable for the City. Furthermore, necessary improvements will be recommended to offset any operational deficiencies. Improvements may include addition of intersection turn lanes, changes in traffic control, signalization, etc. The LOS with the proposed improvements will be calculated and summarized, along with a comparison of the LOS without improvements.

## Signal Warrant Analysis (if Required)

A peak hour signal warrant analysis would be conducted at unsignalized intersections if a signal is recommended as an improvement. Peak hour approach volumes for study intersections will be examined to determine whether signalization may be warranted per the criteria defined in the California supplement of the *Manual on Uniform Traffic Control Devices* (CA-MUTCD).

## Fair-Share Contributions (if Required)

A fair share percentage will be calculated for study intersection improvements recommended in the TIA that are not included in the Measure C program, the City's Development Fee program, or any other funding program. The percentage of fair share for the project will be calculated at each location using the total trips generated by the project divided by the total "new" traffic, which is the net increase in traffic volumes from existing to cumulative year conditions.

## Site Access and Circulation Analysis

A site access and circulation analysis will be conducted as per the criteria stated in the City's TIA guidelines. The following issues will be evaluated as part of this analysis:

- Anticipated queues and minimum required throat depth (MRTD) at all project access locations;
- A sight distance analysis at the project driveways including recommended improvements in cases of unsafe traffic conditions; and
- Safety of potential pedestrian paths of travels from the project site to schools, commercial areas, and nearby bus stops.

## Safe Routes to School Analysis

Since the project is residential in nature, a safe route to school analysis would be included as part of the LTA. This would analyze the pedestrian and bike facilities en route to school from the project and discuss necessary improvements, if required.

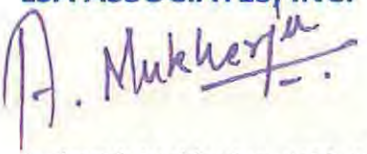
## PROJECT VEHICLE MILES TRAVELED ANALYSIS

The TIA will include a Vehicle Miles Traveled (VMT) analysis to meet CEQA requirements. The project VMT analysis will be prepared consistent with the City's TIA Guidelines. As per the City's TIA Guidelines, the project cannot be considered as a small project given that the project exceeds 53 dwelling units. Therefore, a full VMT analysis will be required for the project. For purposes of this analysis, the project-generated VMT per capita will be obtained from the Fresno COG ABM. As per the City's TIA Guidelines, a significant project-generated VMT impact would occur if the project's VMT per capita exceeds a level of 13 percent below the existing County average VMT per capita provided in the guidelines. However, it should be noted that since the project is consistent with the City's General Plan, it may fall under the Statement of Overriding Considerations for the City's General Plan EIR and may not require any additional project specific mitigation measures.

Should you have any questions, please do not hesitate to contact me at (951) 781-9310 or email me at Ambarish.Mukherjee@lsa.net.

Sincerely,

**LSA ASSOCIATES, INC.**



Ambarish Mukherjee, AICP, PE
Principal

**ATTACHMENTS**

Table A: Project Trip Generation
Figure 1: Regional and Project Location
Figure 2: Tentative Subdivision Map
Figure 3: Study Area Intersections
Figure 4: Existing and Near-Term Project Trip Distribution
Figure 5: Cumulative Project Trip Distribution
Figure 6: Existing and Near-Term Project Trip Assignment
Figure 7: Cumulative Project Trip Assignment
Appendix A: Fresno COG ABM Select Zone Model Plots

# TABLES

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## Table A - Project Trip Generation

| Land Use | Units | A.M. Peak Hour In | A.M. Peak Hour Out | A.M. Peak Hour Total | P.M. Peak Hour In | P.M. Peak Hour Out | P.M. Peak Hour Total | Daily |
|---|---|---|---|---|---|---|---|---|
| **Single-Family Detached Housing** | 266 DU | | | | | | | |
| Trips/Unit[1] | | 0.18 | 0.52 | 0.70 | 0.59 | 0.35 | 0.94 | 9.43 |
| Trip Generation | | **48** | **138** | **186** | **157** | **93** | **250** | **2,508** |

Notes:

DU = Dwelling Units

[1] Rates based on Land Use 210 - "Single-Family Detached Housing" from the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, 11th Edition, Setting/Location - "General Urban/Suburban."

# FIGURES

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Google Earth, 2022

0 1200 2400

LSA

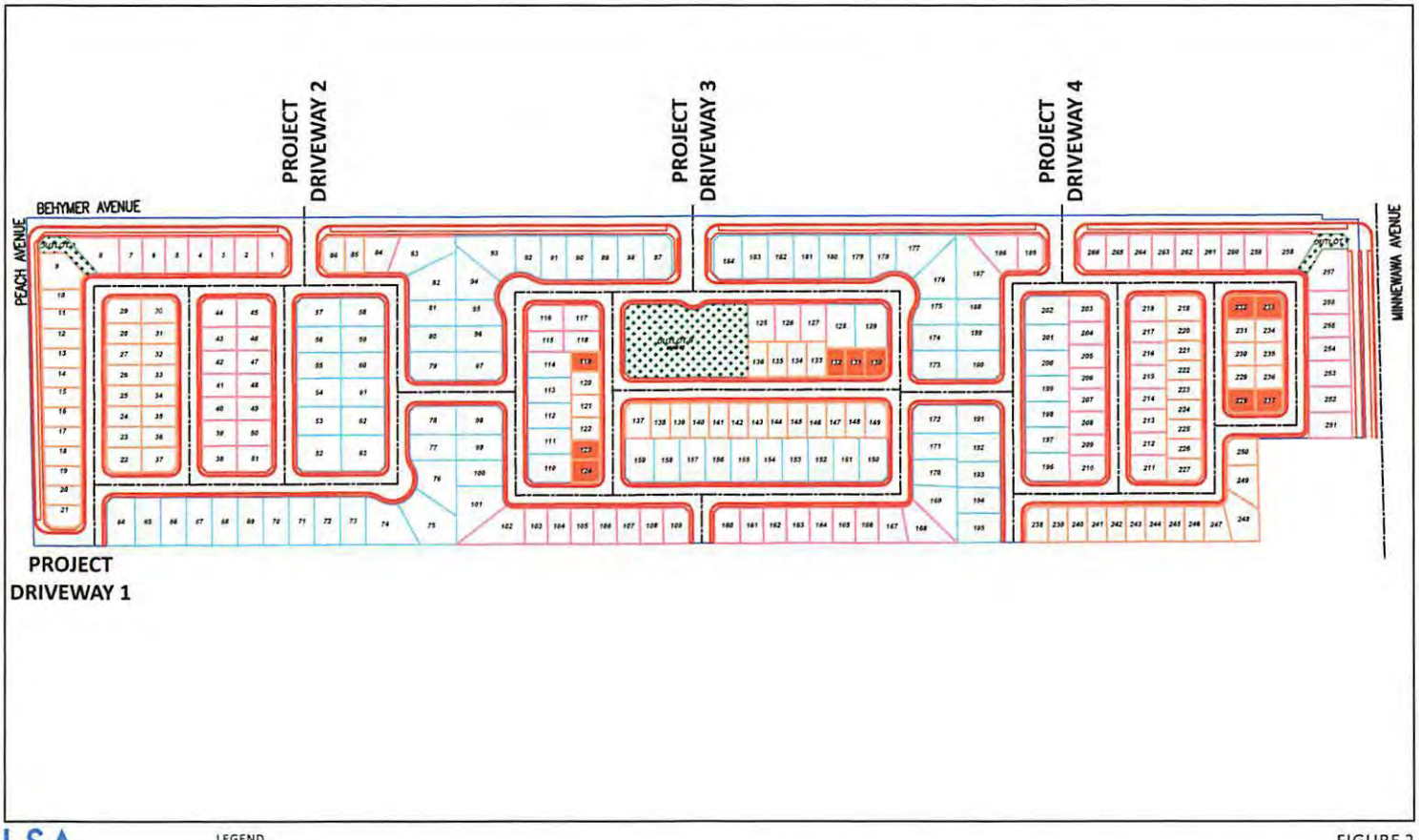
LEGEND

Project Location

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Regional and Project Location

FIGURE 1

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LEGEND

| | | |
|---|---|---|
| 38' X 55' -TYPICAL | 10 LOTS | |
| 38' X 68'- TYPICAL | 79 LOTS | |
| 45' X 70'- TYPICAL | 82 LOTS | |
| 50' X 85'- TYPICAL | 95 LOTS | |
| 266 TOTAL SFR LOTS | | |

PARK

N

0 150 300
FEET

FIGURE 2

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Conceptual Site Plan

SOURCE: De Young Properties, February 2024.
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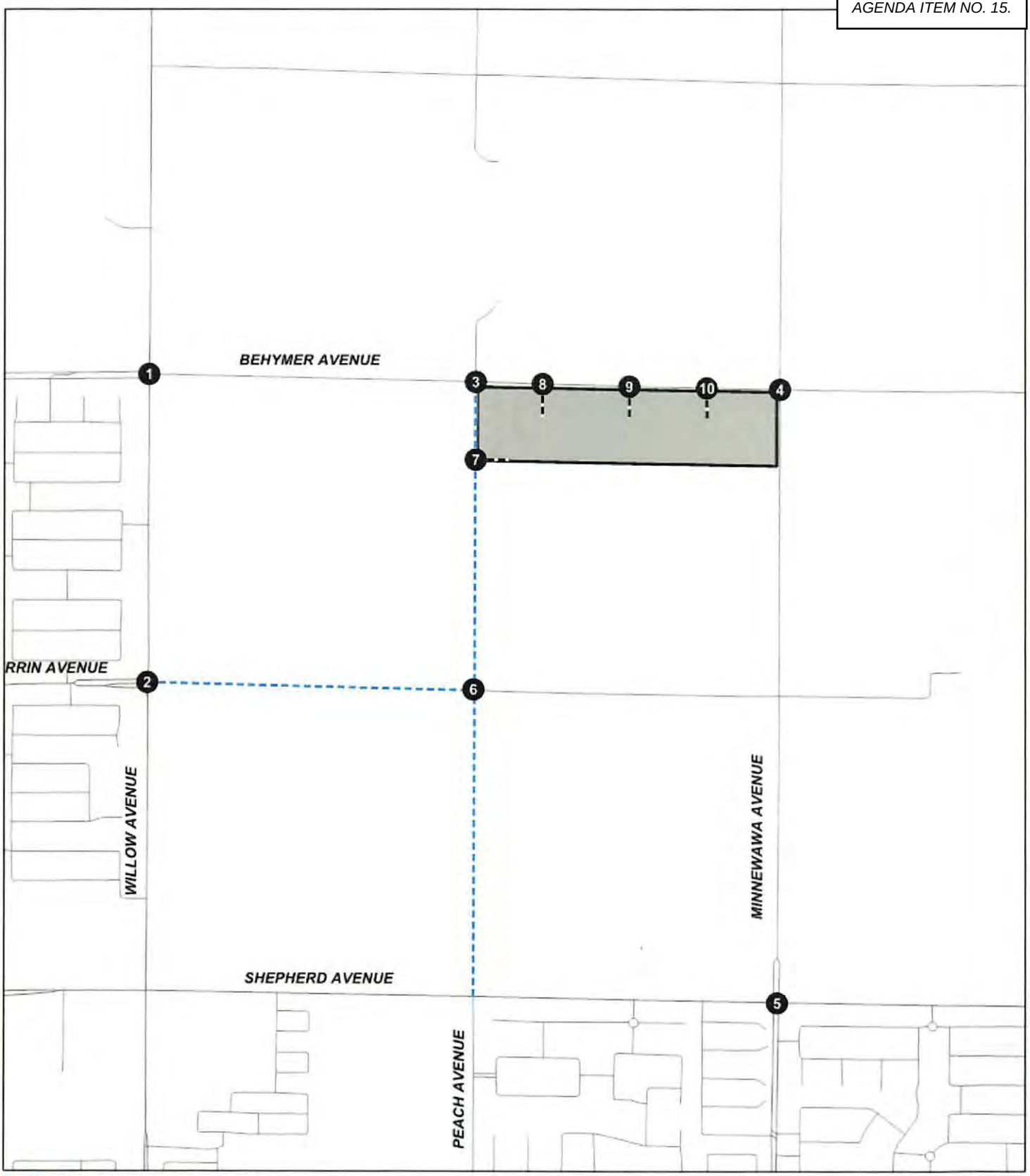


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LEGEND

- Project Location
- Study Intersections
- Project Driveway
- Future Roadway

0 600 1200
FEET

FIGURE 3

*De Young Properties Peach and Behymer*

Study Inters



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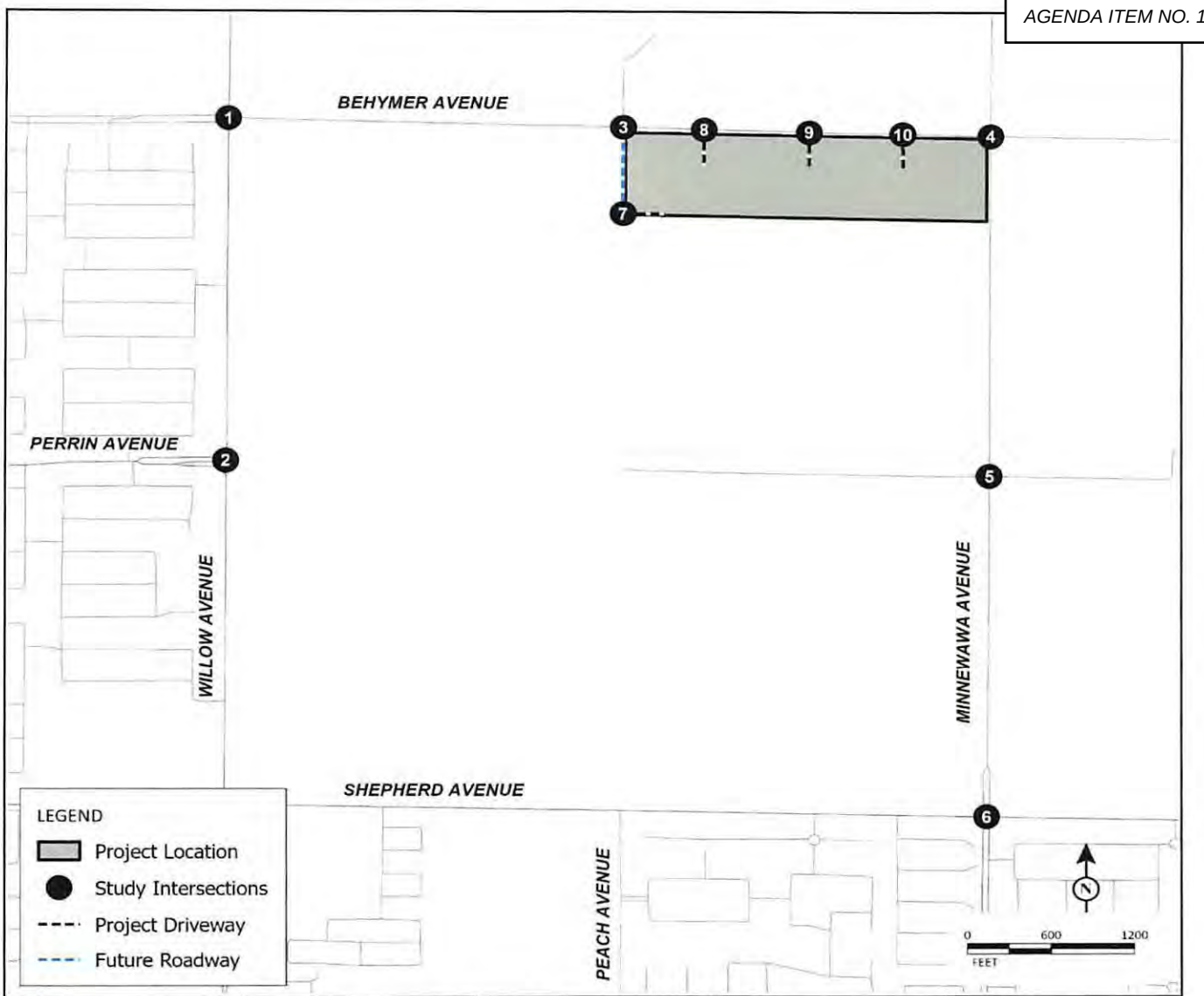


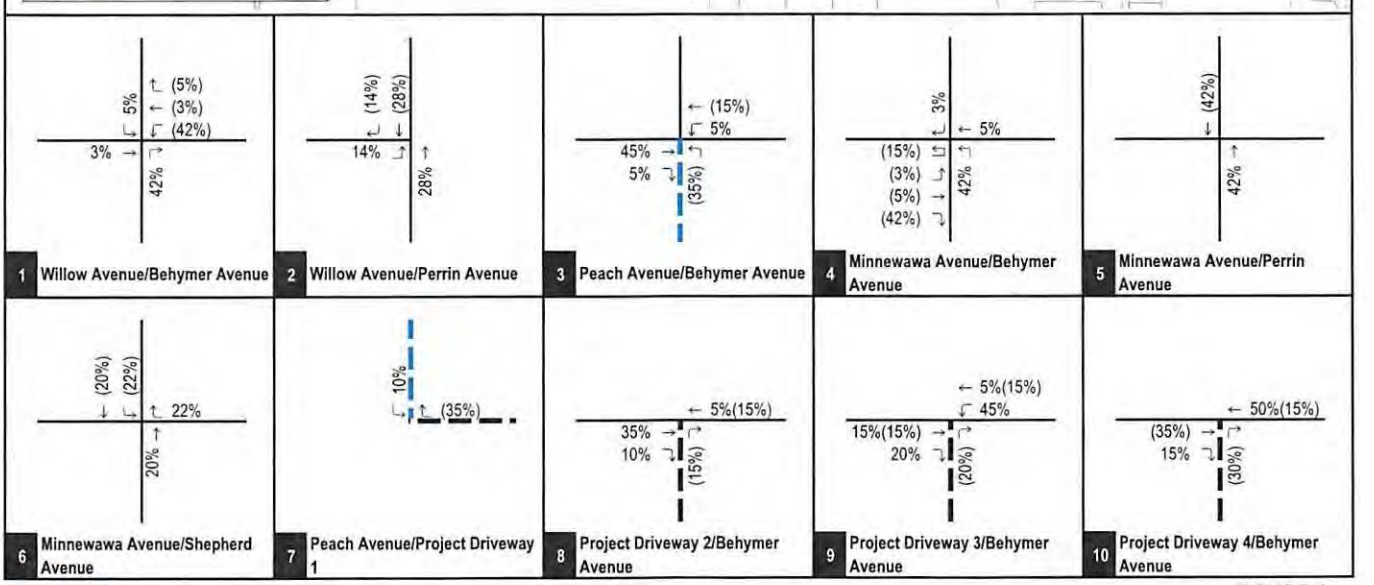


FIGURE 4

LSA

XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway
Future Roadway

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Existing and Near-Term Project Trip Distribution

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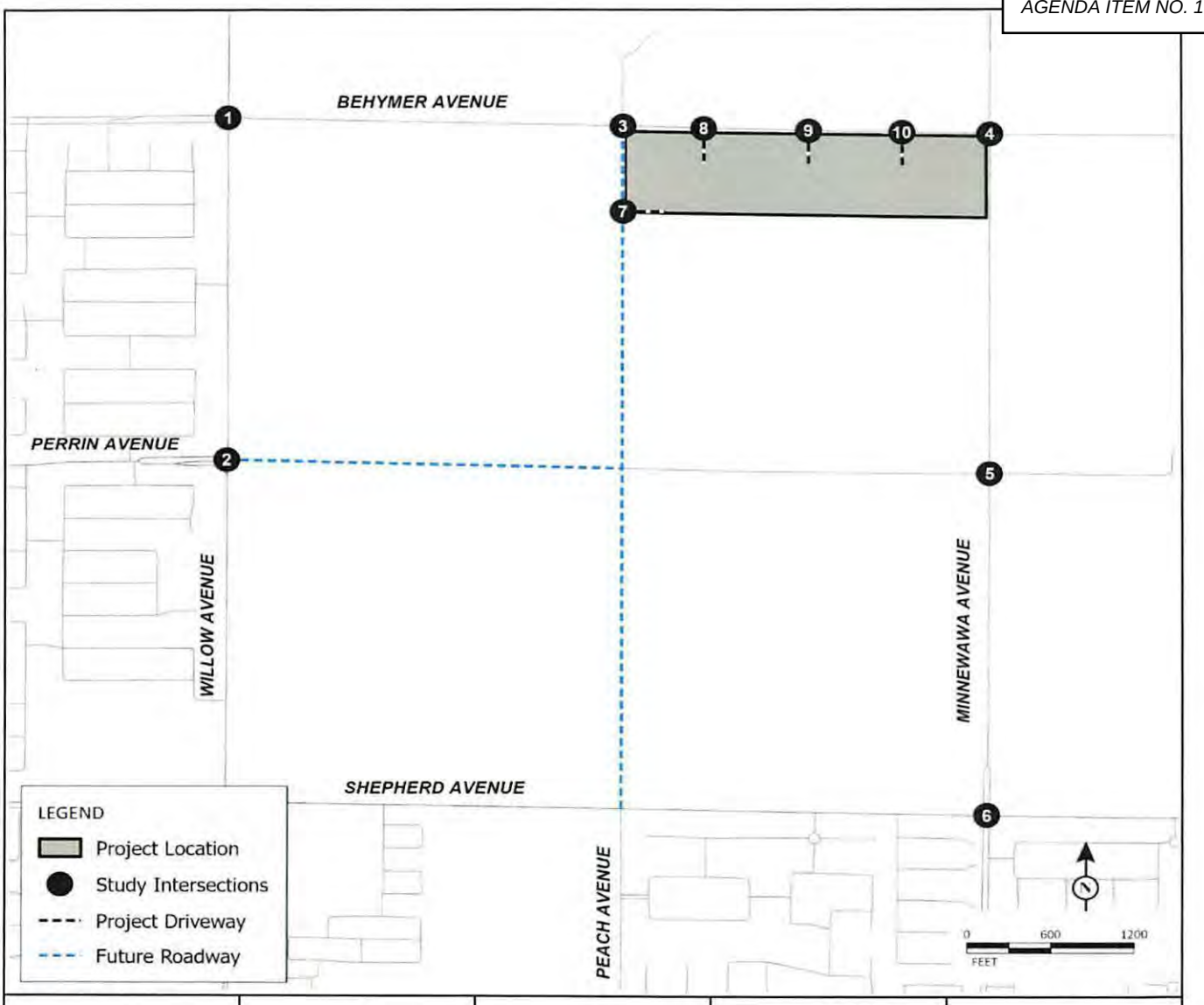


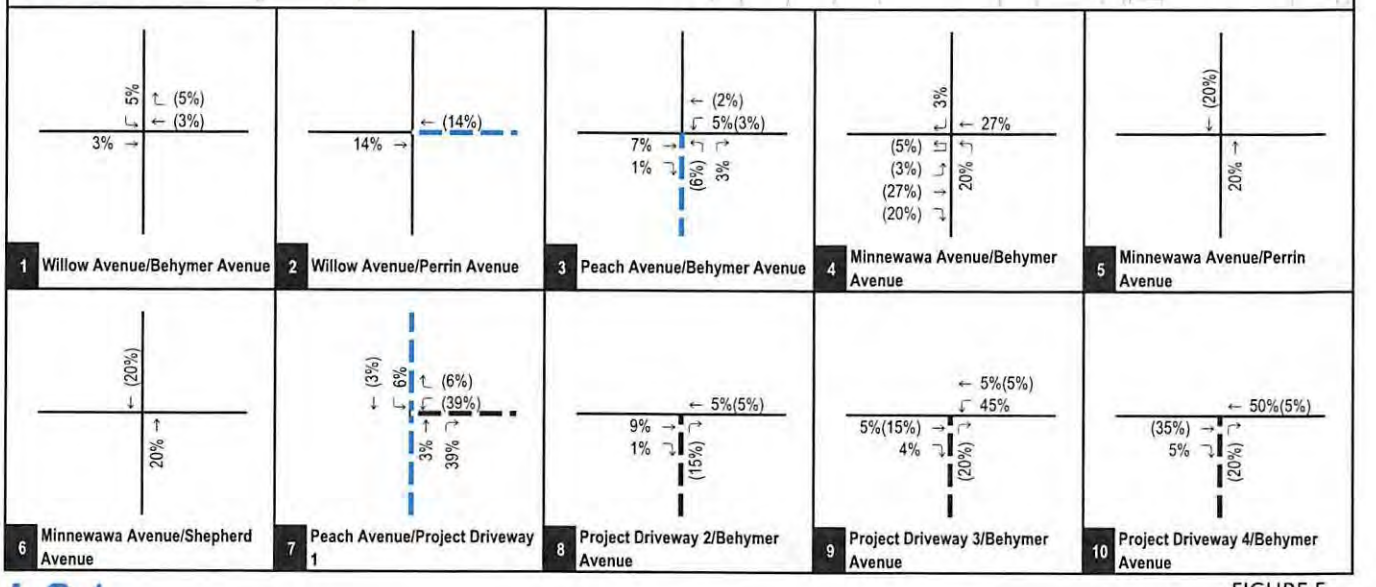


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FIGURE 5

XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway
Future Roadway

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Cumulative Project Trip Distribution

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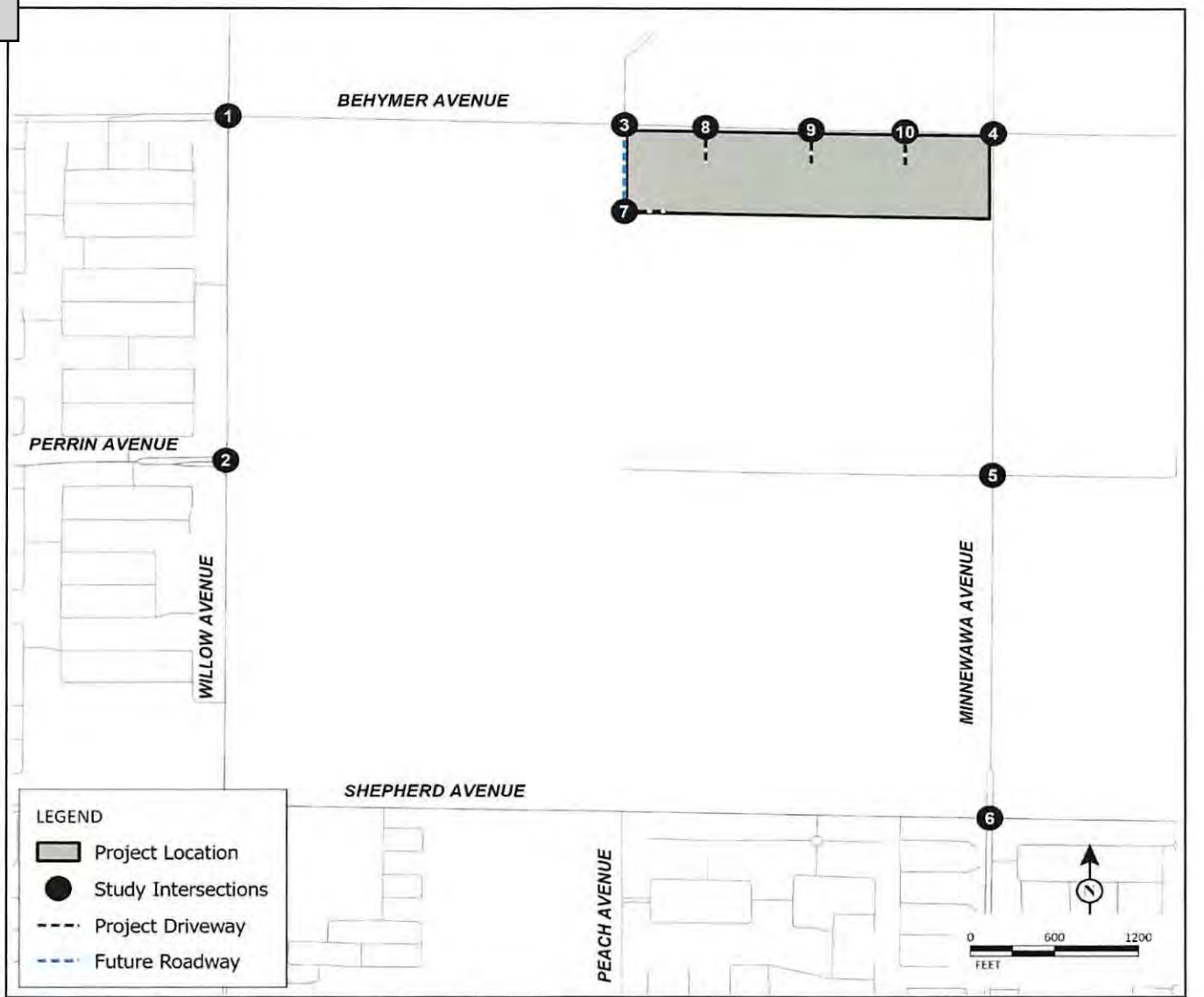


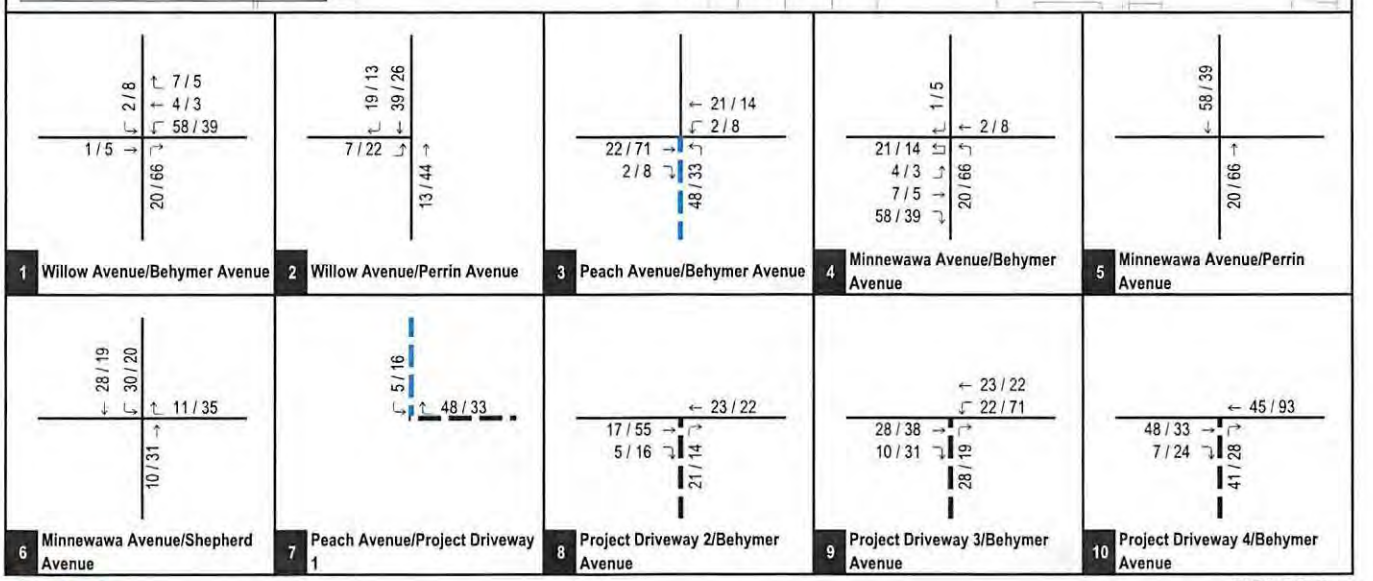



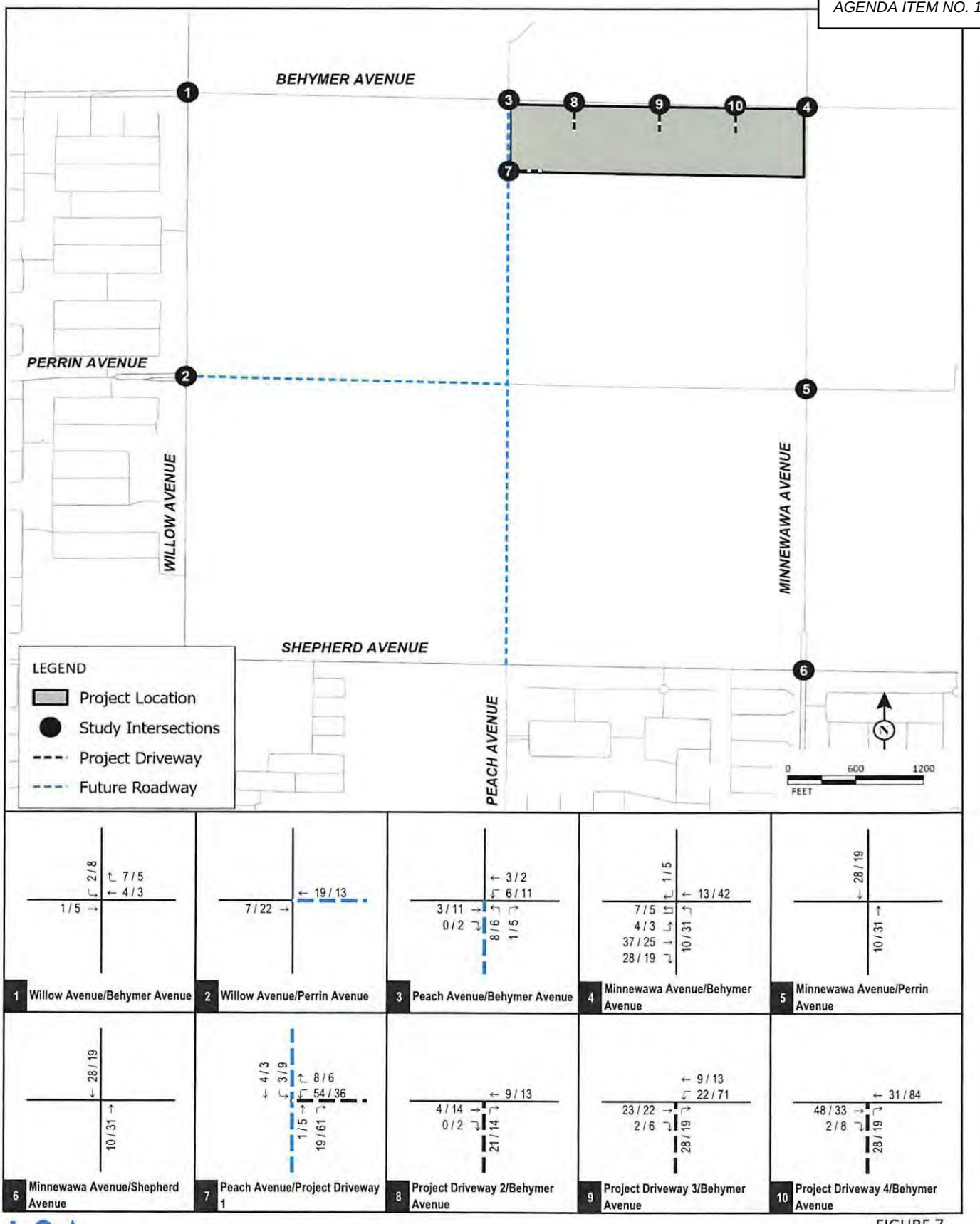

FIGURE 6

LSA

XX / YY
AM / PM Peak Hour Trips
Project Driveway
Future Roadway

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Existing and Near-Term Project Trip Assignment




LSA

FIGURE 7

XX / YY
AM / PM Peak Hour Trips
Project Driveway
Future Roadway

*De Young Properties Peach and Behymer Project*
*Transportation Impact Analysis*

Cumulative Project Trip Assignment

P:\20231181 De Young Annexation\z30_Asgn_Cumul.xlsx\Figure (8/10/2024)

# APPENDIX A

# FRESNO COG ABM SELECT ZONE MODEL PLOTS


Fresno COG 2046 Travel Model - PM peak hour select zone distribution (DeYoung Residential)

# APPENDIX B

# VMT CALCULATION WORKSHEETS

LSA

## Appendix B
## VMT Calculations
## De Young Single Family Residential Development

| 2019 | De Young Single Family (Project) * | City of Clovis ** |
|---|---|---|
| Total project households | 266 | |
| Total project population (a) | 896 | |
| Percent Population traveling to outside (b) * | 7.79% | |
| Project Population traveling to outside (c=b*a) | 70 | |
| | | |
| Total Internal-Internal (II) Project VMT (d) ** | 11,132 | |
| Internal project population (e=a-c) | 826 | |
| II VMT per capita (f=d/e) | 13.5 | |
| | | |
| IX VMT per capita (g) *** | 31.5 | |
| Total IX VMT (h=g*c) | 2,199 | |
| | | |
| Total project VMT (i=d+h) | 13,331 | |
| VMT per capita (j=i/a) | 14.9 | 14.1 |

** : Obtained from "Fresno_worker_ixxifractions.dat" from model inputs. Used same percentages/values as the parent TAZ (248)*

***: Includes all tours and all sub-tours from the ABM model run for VMT estimation*

****: IX VMT per capita was estimated as weighted average for all TAZs in the CSTDM Zone 2569*

P:\20231181 De Young Annexation\vmt_summ.xlsx\Appendix A (8/12/2024)

# APPENDIX C

# TRAFFIC COUNT SHEETS AND SIGNAL TIMING SHEETS

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 11 | 47 | 5 | 63 | 6 | 12 | 9 | 27 | 7 | 44 | 10 | 61 | 8 | 19 | 22 | 49 | 200 |
| 07:15 AM | 5 | 82 | 8 | 95 | 14 | 31 | 13 | 58 | 6 | 70 | 3 | 79 | 1 | 22 | 24 | 47 | 279 |
| 07:30 AM | 6 | 132 | 9 | 147 | 12 | 65 | 34 | 111 | 29 | 106 | 7 | 142 | 9 | 32 | 58 | 99 | 499 |
| 07:45 AM | 9 | 114 | 3 | 126 | 12 | 62 | 38 | 112 | 24 | 151 | 10 | 185 | 18 | 56 | 75 | 149 | 572 |
| Total | 31 | 375 | 25 | 431 | 44 | 170 | 94 | 308 | 66 | 371 | 30 | 467 | 36 | 129 | 179 | 344 | 1550 |
| 08:00 AM | 20 | 128 | 8 | 156 | 4 | 26 | 42 | 72 | 21 | 172 | 13 | 206 | 21 | 30 | 38 | 89 | 523 |
| 08:15 AM | 20 | 170 | 23 | 213 | 11 | 18 | 22 | 51 | 30 | 194 | 4 | 228 | 34 | 22 | 36 | 92 | 584 |
| 08:30 AM | 17 | 199 | 20 | 236 | 5 | 29 | 33 | 67 | 28 | 176 | 4 | 208 | 7 | 21 | 33 | 61 | 572 |
| 08:45 AM | 13 | 130 | 3 | 146 | 8 | 30 | 42 | 80 | 22 | 143 | 9 | 174 | 1 | 23 | 27 | 51 | 451 |
| Total | 70 | 627 | 54 | 751 | 28 | 103 | 139 | 270 | 101 | 685 | 30 | 816 | 63 | 96 | 134 | 293 | 2130 |
| Grand Total | 101 | 1002 | 79 | 1182 | 72 | 273 | 233 | 578 | 167 | 1056 | 60 | 1283 | 99 | 225 | 313 | 637 | 3680 |
| Apprch % | 8.5 | 84.8 | 6.7 | | 12.5 | 47.2 | 40.3 | | 13 | 82.3 | 4.7 | | 15.5 | 35.3 | 49.1 | | |
| Total % | 2.7 | 27.2 | 2.1 | 32.1 | 2 | 7.4 | 6.3 | 15.7 | 4.5 | 28.7 | 1.6 | 34.9 | 2.7 | 6.1 | 8.5 | 17.3 | |
| Passenger Vehicles | 95 | 982 | 79 | 1156 | 71 | 268 | 229 | 568 | 158 | 1040 | 57 | 1255 | 97 | 225 | 301 | 623 | 3602 |
| % Passenger Vehicles | 94.1 | 98 | 100 | 97.8 | 98.6 | 98.2 | 98.3 | 98.3 | 94.6 | 98.5 | 95 | 97.8 | 98 | 100 | 96.2 | 97.8 | 97.9 |
| Large 2 Axle Vehicles | 4 | 16 | 0 | 20 | 0 | 5 | 0 | 5 | 9 | 12 | 1 | 22 | 1 | 0 | 12 | 13 | 60 |
| % Large 2 Axle Vehicles | 4 | 1.6 | 0 | 1.7 | 0 | 1.8 | 0 | 0.9 | 5.4 | 1.1 | 1.7 | 1.7 | 1 | 0 | 3.8 | 2 | 1.6 |
| 3 Axle Vehicles | 1 | 2 | 0 | 3 | 0 | 0 | 2 | 2 | 0 | 3 | 2 | 5 | 0 | 0 | 0 | 0 | 10 |
| % 3 Axle Vehicles | 1 | 0.2 | 0 | 0.3 | 0 | 0 | 0.9 | 0.3 | 0 | 0.3 | 3.3 | 0.4 | 0 | 0 | 0 | 0 | 0.3 |
| 4+ Axle Trucks | 1 | 2 | 0 | 3 | 1 | 0 | 2 | 3 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 8 |
| % 4+ Axle Trucks | 1 | 0.2 | 0 | 0.3 | 1.4 | 0 | 0.9 | 0.5 | 0 | 0.1 | 0 | 0.1 | 1 | 0 | 0 | 0.2 | 0.2 |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | | | | | | | | |
| 07:45 AM | 9 | 114 | 3 | 126 | **12** | **62** | 38 | **112** | 24 | 151 | 10 | 185 | 18 | **56** | **75** | **149** | 572 |
| 08:00 AM | **20** | 128 | 8 | 156 | 4 | 26 | **42** | 72 | 21 | 172 | **13** | 206 | 21 | 30 | 38 | 89 | 523 |
| 08:15 AM | 20 | 170 | **23** | 213 | 11 | 18 | 22 | 51 | **30** | **194** | 4 | **228** | **34** | 22 | 36 | 92 | **584** |
| 08:30 AM | 17 | **199** | 20 | **236** | 5 | 29 | 33 | 67 | 28 | 176 | 4 | 208 | 7 | 21 | 33 | 61 | 572 |
| Total Volume | 66 | 611 | 54 | 731 | 32 | 135 | 135 | 302 | 103 | 693 | 31 | 827 | 80 | 129 | 182 | 391 | 2251 |
| % App. Total | 9 | 83.6 | 7.4 | | 10.6 | 44.7 | 44.7 | | 12.5 | 83.8 | 3.7 | | 20.5 | 33 | 46.5 | | |
| PHF | .825 | .768 | .587 | .774 | .667 | .544 | .804 | .674 | .858 | .893 | .596 | .907 | .588 | .576 | .607 | .656 | .964 |

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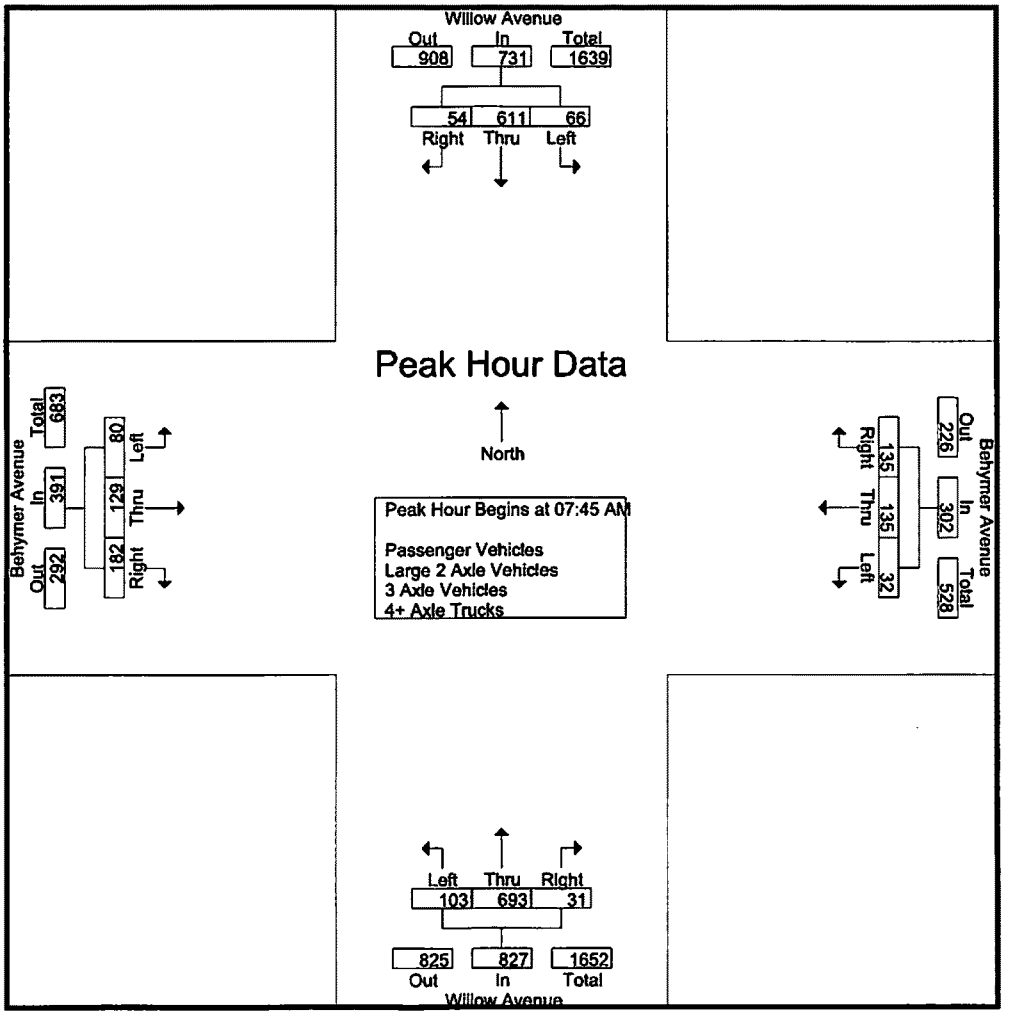
y of Clovis
S: Willow Avenue
W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 08:00 AM | | | | 07:15 AM | | | | 07:45 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | **20** | 128 | 8 | 156 | **14** | 31 | 13 | 58 | 24 | 151 | 10 | 185 | 9 | 32 | 58 | 99 |
| +15 mins. | 20 | 170 | **23** | 213 | 12 | **65** | 34 | 111 | 21 | 172 | **13** | 206 | 18 | **56** | **75** | **149** |
| +30 mins. | 17 | **199** | 20 | **236** | 12 | 62 | 38 | **112** | **30** | **194** | 4 | **228** | 21 | 30 | 38 | 89 |
| +45 mins. | 13 | 130 | 3 | 146 | 4 | 26 | **42** | 72 | 28 | 176 | 4 | 208 | **34** | 22 | 36 | 92 |
| Total Volume | 70 | 627 | 54 | 751 | 42 | 184 | 127 | 353 | 103 | 693 | 31 | 827 | 82 | 140 | 207 | 429 |
| % App. Total | 9.3 | 83.5 | 7.2 | | 11.9 | 52.1 | 36 | | 12.5 | 83.8 | 3.7 | | 19.1 | 32.6 | 48.3 | |
| PHF | .875 | .788 | .587 | .796 | .750 | .708 | .756 | .788 | .858 | .893 | .596 | .907 | .603 | .625 | .690 | .720 |

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 11 | 45 | 5 | 61 | 6 | 11 | 8 | 25 | 5 | 43 | 9 | 57 | 8 | 19 | 22 | 49 | 192 |
| 07:15 AM | 5 | 80 | 8 | 93 | 14 | 31 | 12 | 57 | 5 | 68 | 3 | 76 | 1 | 22 | 22 | 45 | 271 |
| 07:30 AM | 6 | 131 | 9 | 146 | 12 | 64 | 33 | 109 | 28 | 104 | 7 | 139 | 9 | 32 | 57 | 98 | 492 |
| 07:45 AM | 8 | 114 | 3 | 125 | 12 | 62 | 38 | 112 | 23 | 150 | 8 | 181 | 18 | 56 | 72 | 146 | 564 |
| Total | 30 | 370 | 25 | 425 | 44 | 168 | 91 | 303 | 61 | 365 | 27 | 453 | 36 | 129 | 173 | 338 | 1519 |
| 08:00 AM | 18 | 121 | 8 | 147 | 4 | 23 | 41 | 68 | 18 | 168 | 13 | 199 | 20 | 30 | 38 | 88 | 502 |
| 08:15 AM | 18 | 165 | 23 | 206 | 10 | 18 | 22 | 50 | 30 | 191 | 4 | 225 | 33 | 22 | 33 | 88 | 569 |
| 08:30 AM | 17 | 196 | 20 | 233 | 5 | 29 | 33 | 67 | 27 | 175 | 4 | 206 | 7 | 21 | 31 | 59 | 565 |
| 08:45 AM | 12 | 130 | 3 | 145 | 8 | 30 | 42 | 80 | 22 | 141 | 9 | 172 | 1 | 23 | 26 | 50 | 447 |
| Total | 65 | 612 | 54 | 731 | 27 | 100 | 138 | 265 | 97 | 675 | 30 | 802 | 61 | 96 | 128 | 285 | 2083 |
| Grand Total | 95 | 982 | 79 | 1156 | 71 | 268 | 229 | 568 | 158 | 1040 | 57 | 1255 | 97 | 225 | 301 | 623 | 3602 |
| Apprch % | 8.2 | 84.9 | 6.8 | | 12.5 | 47.2 | 40.3 | | 12.6 | 82.9 | 4.5 | | 15.6 | 36.1 | 48.3 | | |
| Total % | 2.6 | 27.3 | 2.2 | 32.1 | 2 | 7.4 | 6.4 | 15.8 | 4.4 | 28.9 | 1.6 | 34.8 | 2.7 | 6.2 | 8.4 | 17.3 | |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | | | | | | | | |
| 07:45 AM | 8 | 114 | 3 | 125 | **12** | **62** | 38 | **112** | 23 | 150 | 8 | 181 | 18 | **56** | **72** | **146** | 564 |
| 08:00 AM | **18** | 121 | 8 | 147 | 4 | 23 | 41 | 68 | 18 | 168 | **13** | 199 | 20 | 30 | 38 | 88 | 502 |
| 08:15 AM | 18 | 165 | **23** | 206 | 10 | 18 | 22 | 50 | **30** | **191** | 4 | **225** | **33** | 22 | 33 | 88 | **569** |
| 08:30 AM | 17 | **196** | 20 | **233** | 5 | 29 | 33 | 67 | 27 | 175 | 4 | 206 | 7 | 21 | 31 | 59 | 565 |
| Total Volume | 61 | 596 | 54 | 711 | 31 | 132 | 134 | 297 | 98 | 684 | 29 | 811 | 78 | 129 | 174 | 381 | 2200 |
| % App. Total | 8.6 | 83.8 | 7.6 | | 10.4 | 44.4 | 45.1 | | 12.1 | 84.3 | 3.6 | | 20.5 | 33.9 | 45.7 | | |
| PHF | .847 | .760 | .587 | .763 | .646 | .532 | .817 | .663 | .817 | .895 | .558 | .901 | .591 | .576 | .604 | .652 | .967 |

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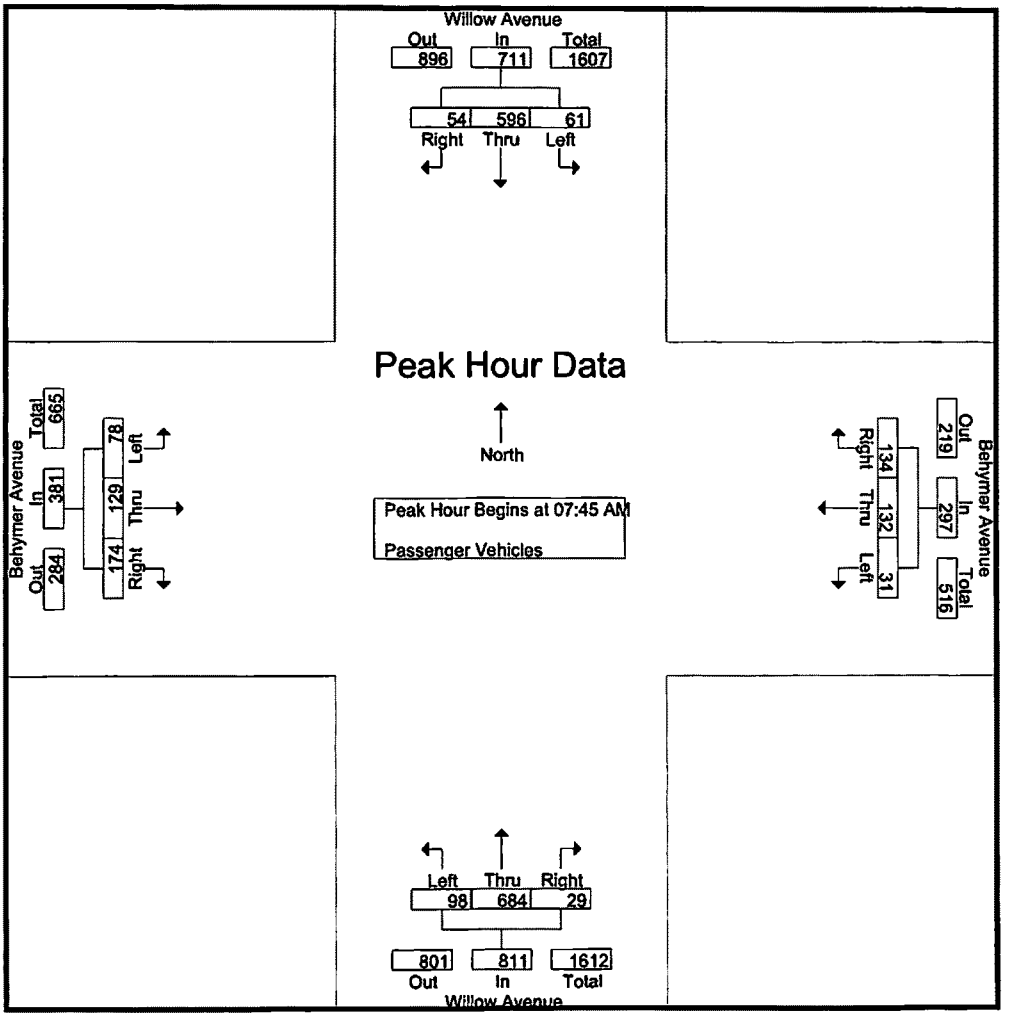
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 8 | 114 | 3 | 125 | **12** | **62** | 38 | 112 | 23 | 150 | 8 | 181 | 18 | **56** | **72** | **146** |
| +15 mins. | **18** | 121 | 8 | 147 | 4 | 23 | **41** | 68 | 18 | 168 | **13** | 199 | 20 | 30 | 38 | 88 |
| +30 mins. | 18 | 165 | **23** | 206 | 10 | 18 | 22 | 50 | **30** | **191** | 4 | **225** | **33** | 22 | 33 | 88 |
| +45 mins. | 17 | **196** | 20 | **233** | 5 | 29 | 33 | 67 | 27 | 175 | 4 | 206 | 7 | 21 | 31 | 59 |
| Total Volume | 61 | 596 | 54 | 711 | 31 | 132 | 134 | 297 | 98 | 684 | 29 | 811 | 78 | 129 | 174 | 381 |
| % App. Total | 8.6 | 83.8 | 7.6 | | 10.4 | 44.4 | 45.1 | | 12.1 | 84.3 | 3.6 | | 20.5 | 33.9 | 45.7 | |
| PHF | .847 | .760 | .587 | .763 | .646 | .532 | .817 | .663 | .817 | .895 | .558 | .901 | .591 | .576 | .604 | .652 |

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 2 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 6 |
| 07:15 AM | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 2 | 2 | 7 |
| 07:30 AM | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 1 | 5 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 3 | 3 | 5 |
| Total | 0 | 5 | 0 | 5 | 0 | 2 | 0 | 2 | 5 | 4 | 1 | 10 | 0 | 0 | 6 | 6 | 23 |
| 08:00 AM | 2 | 4 | 0 | 6 | 0 | 3 | 0 | 3 | 3 | 3 | 0 | 6 | 0 | 0 | 0 | 0 | 15 |
| 08:15 AM | 2 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 3 | 4 | 13 |
| 08:30 AM | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 2 | 2 | 7 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 2 |
| Total | 4 | 11 | 0 | 15 | 0 | 3 | 0 | 3 | 4 | 8 | 0 | 12 | 1 | 0 | 6 | 7 | 37 |
| Grand Total | 4 | 16 | 0 | 20 | 0 | 5 | 0 | 5 | 9 | 12 | 1 | 22 | 1 | 0 | 12 | 13 | 60 |
| Apprch % | 20 | 80 | 0 | | 0 | 100 | 0 | | 40.9 | 54.5 | 4.5 | | 7.7 | 0 | 92.3 | | |
| Total % | 6.7 | 26.7 | 0 | 33.3 | 0 | 8.3 | 0 | 8.3 | 15 | 20 | 1.7 | 36.7 | 1.7 | 0 | 20 | 21.7 | |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | | | | | | | | |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 3 | 3 | 5 |
| 08:00 AM | 2 | 4 | 0 | 6 | 0 | 3 | 0 | 3 | 3 | 3 | 0 | 6 | 0 | 0 | 0 | 0 | 15 |
| 08:15 AM | 2 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 3 | 4 | 13 |
| 08:30 AM | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 2 | 2 | 7 |
| Total Volume | 4 | 11 | 0 | 15 | 0 | 3 | 0 | 3 | 5 | 8 | 0 | 13 | 1 | 0 | 8 | 9 | 40 |
| % App. Total | 26.7 | 73.3 | 0 | | 0 | 100 | 0 | | 38.5 | 61.5 | 0 | | 11.1 | 0 | 88.9 | | |
| PHF | .500 | .688 | .000 | .625 | .000 | .250 | .000 | .250 | .417 | .667 | .000 | .542 | .250 | .000 | .667 | .563 | .667 |

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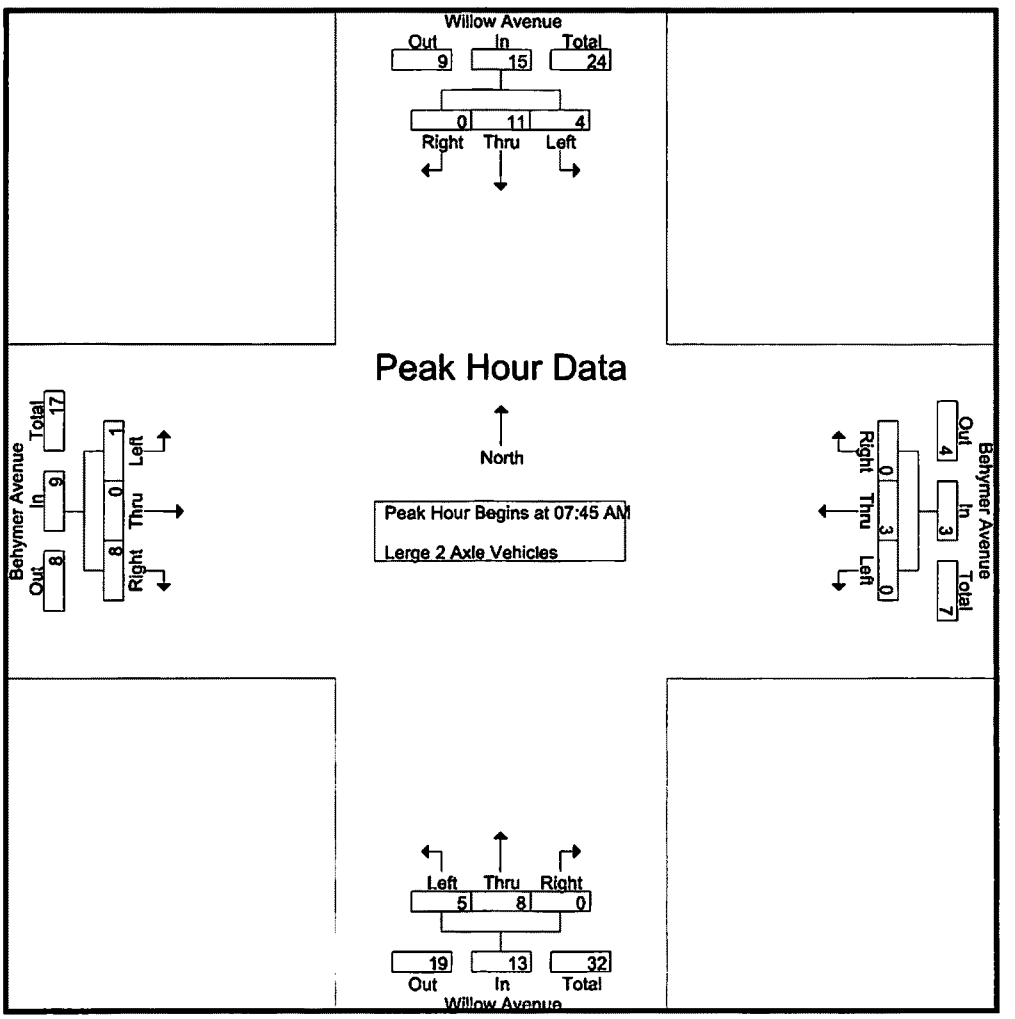
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Wil_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 3 | 3 |
| +15 mins. | 2 | 4 | 0 | 6 | 0 | 3 | 0 | 3 | 3 | 3 | 0 | 6 | 0 | 0 | 0 | 0 |
| +30 mins. | 2 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 3 | 4 |
| +45 mins. | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 2 | 2 |
| Total Volume | 4 | 11 | 0 | 15 | 0 | 3 | 0 | 3 | 5 | 8 | 0 | 13 | 1 | 0 | 8 | 9 |
| % App. Total | 26.7 | 73.3 | 0 | | 0 | 100 | 0 | | 38.5 | 61.5 | 0 | | 11.1 | 0 | 88.9 | |
| PHF | .500 | .688 | .000 | .625 | .000 | .250 | .000 | .250 | .417 | .667 | .000 | .542 | .250 | .000 | .667 | .563 |

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 2 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 5 |
| 08:00 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 08:15 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| Total | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 5 |
| Grand Total | 1 | 2 | 0 | 3 | 0 | 0 | 2 | 2 | 0 | 3 | 2 | 5 | 0 | 0 | 0 | 0 | 10 |
| Apprch % | 33.3 | 66.7 | 0 | | 0 | 0 | 100 | | 0 | 60 | 40 | | 0 | 0 | 0 | | |
| Total % | 10 | 20 | 0 | 30 | 0 | 0 | 20 | 20 | 0 | 30 | 20 | 50 | 0 | 0 | 0 | 0 | |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | | | | | | | | |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **2** | **2** | 0 | 0 | 0 | 0 | **2** |
| 08:00 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 08:15 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 5 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 33.3 | 66.7 | | 0 | 0 | 0 | | |
| PHF | .000 | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .000 | .250 | .250 | .375 | .000 | .000 | .000 | .000 | .625 |

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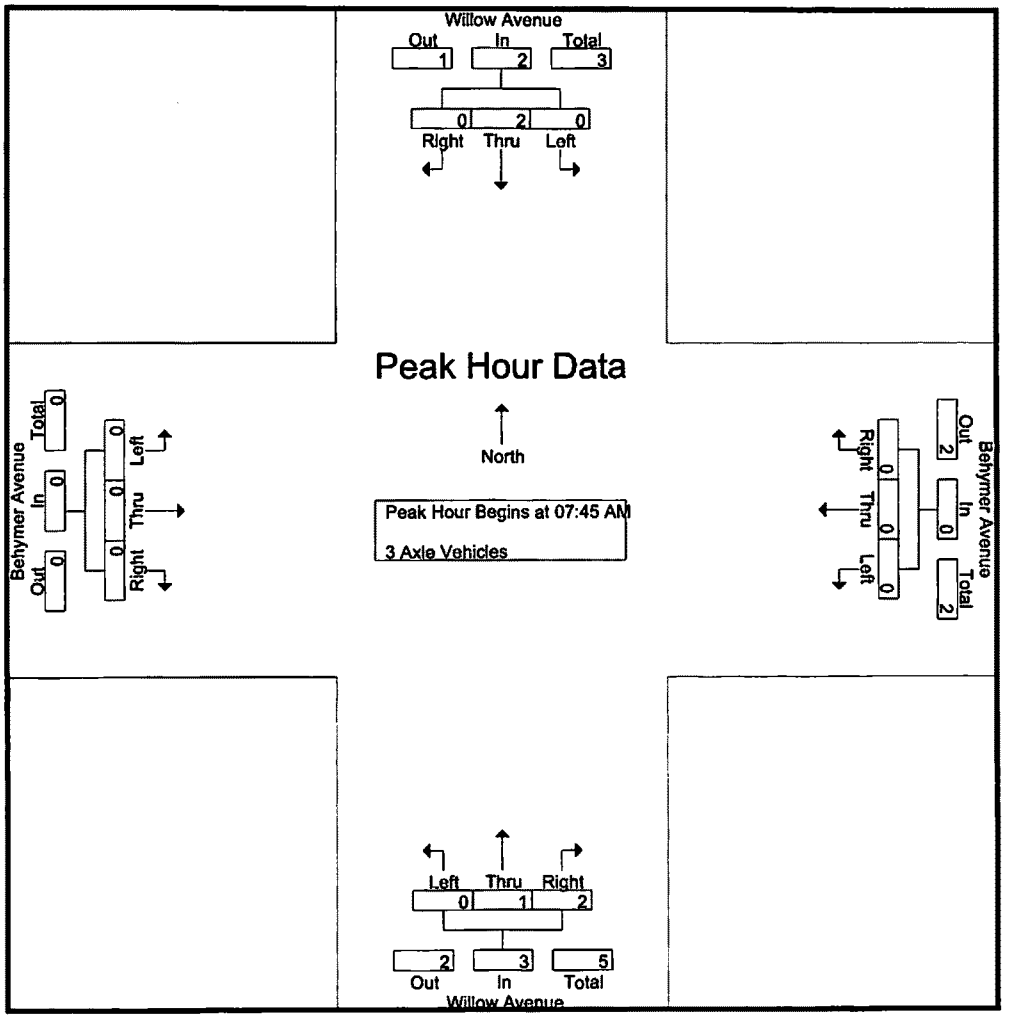
y of Clovis
S: Willow Avenue
V: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **2** | **2** | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | **1** | 0 | **1** | 0 | 0 | 0 | 0 | 0 | **1** | 0 | 1 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 33.3 | 66.7 | | 0 | 0 | 0 | |
| PHF | .000 | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .000 | .250 | .250 | .375 | .000 | .000 | .000 | .000 |

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 08:00 AM | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 4 |
| 08:15 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 2 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 5 |
| Grand Total | 1 | 2 | 0 | 3 | 1 | 0 | 2 | 3 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 8 |
| Apprch % | 33.3 | 66.7 | 0 | | 33.3 | 0 | 66.7 | | 0 | 100 | 0 | | 100 | 0 | 0 | | |
| Total % | 12.5 | 25 | 0 | 37.5 | 12.5 | 0 | 25 | 37.5 | 0 | 12.5 | 0 | 12.5 | 12.5 | 0 | 0 | 12.5 | |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | | | | | | | | |
| 07:45 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:00 AM | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 4 |
| 08:15 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 1 | 2 | 0 | 3 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 6 |
| % App. Total | 33.3 | 66.7 | 0 | | 50 | 0 | 50 | | 0 | 0 | 0 | | 100 | 0 | 0 | | |
| PHF | .250 | .250 | .000 | .375 | .250 | .000 | .250 | .500 | .000 | .000 | .000 | .000 | .250 | .000 | .000 | .250 | .375 |

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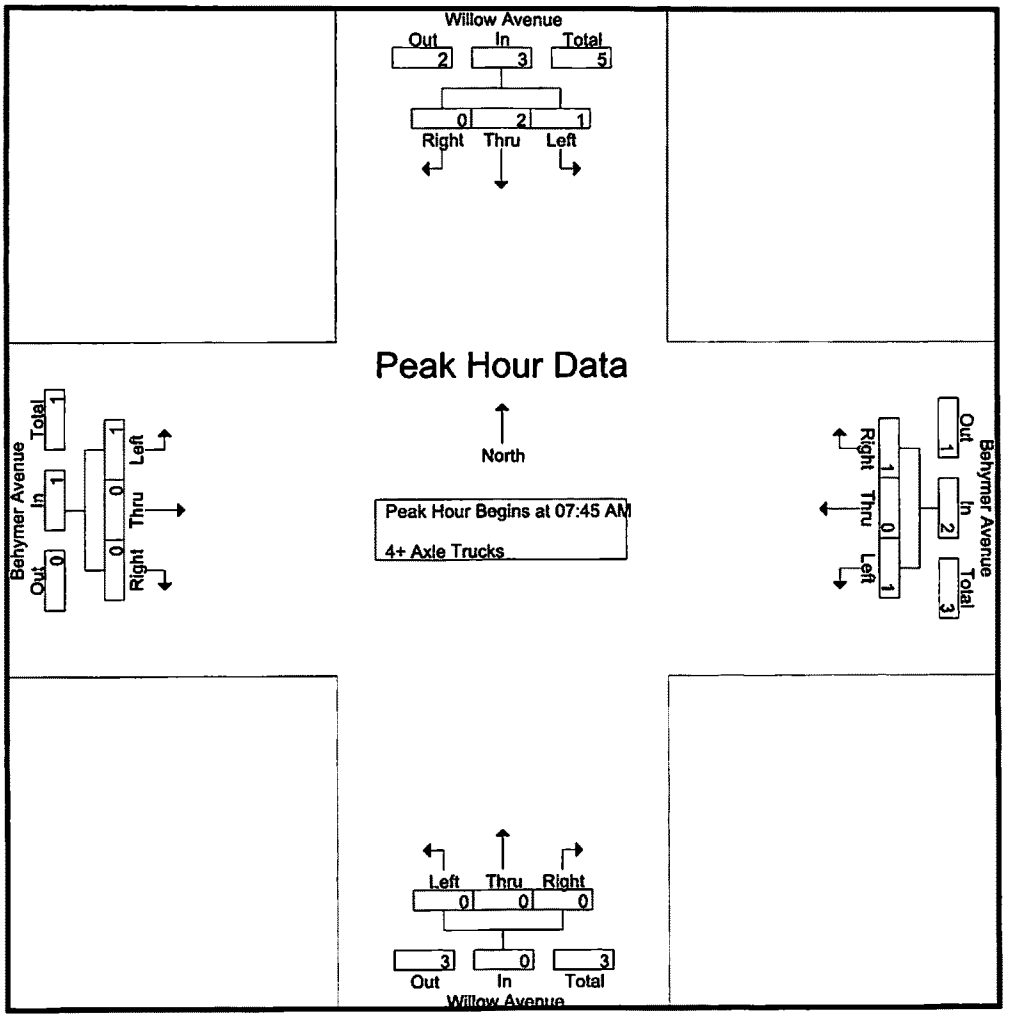
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| +30 mins. | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 1 | 2 | 0 | 3 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| % App. Total | 33.3 | 66.7 | 0 | | 50 | 0 | 50 | | 0 | 0 | 0 | | 100 | 0 | 0 | |
| PHF | .250 | .250 | .000 | .375 | .250 | .000 | .250 | .500 | .000 | .000 | .000 | .000 | .250 | .000 | .000 | .250 |

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 37 | 127 | 3 | 167 | 17 | 34 | 21 | 72 | 28 | 138 | 15 | 181 | 9 | 20 | 36 | 65 | 485 |
| 04:15 PM | 21 | 119 | 3 | 143 | 15 | 30 | 14 | 59 | 18 | 114 | 14 | 146 | 5 | 20 | 20 | 45 | 393 |
| 04:30 PM | 40 | 145 | 11 | 196 | 7 | 29 | 18 | 54 | 26 | 157 | 18 | 201 | 5 | 18 | 22 | 45 | 496 |
| 04:45 PM | 20 | 123 | 8 | 151 | 10 | 30 | 20 | 60 | 23 | 139 | 16 | 178 | 4 | 18 | 33 | 55 | 444 |
| Total | 118 | 514 | 25 | 657 | 49 | 123 | 73 | 245 | 95 | 548 | 63 | 706 | 23 | 76 | 111 | 210 | 1818 |
| 05:00 PM | 37 | 170 | 14 | 221 | 9 | 37 | 21 | 67 | 24 | 162 | 14 | 200 | 4 | 40 | 39 | 83 | 571 |
| 05:15 PM | 26 | 121 | 5 | 152 | 17 | 38 | 25 | 80 | 35 | 169 | 15 | 219 | 4 | 23 | 28 | 55 | 506 |
| 05:30 PM | 18 | 144 | 13 | 175 | 13 | 25 | 34 | 72 | 25 | 182 | 14 | 221 | 7 | 25 | 30 | 62 | 530 |
| 05:45 PM | 14 | 125 | 8 | 147 | 16 | 38 | 39 | 93 | 35 | 218 | 11 | 264 | 6 | 16 | 24 | 46 | 550 |
| Total | 95 | 560 | 40 | 695 | 55 | 138 | 119 | 312 | 119 | 731 | 54 | 904 | 21 | 104 | 121 | 246 | 2157 |
| Grand Total | 213 | 1074 | 65 | 1352 | 104 | 261 | 192 | 557 | 214 | 1279 | 117 | 1610 | 44 | 180 | 232 | 456 | 3975 |
| Apprch % | 15.8 | 79.4 | 4.8 | | 18.7 | 46.9 | 34.5 | | 13.3 | 79.4 | 7.3 | | 9.6 | 39.5 | 50.9 | | |
| Total % | 5.4 | 27 | 1.6 | 34 | 2.6 | 6.6 | 4.8 | 14 | 5.4 | 32.2 | 2.9 | 40.5 | 1.1 | 4.5 | 5.8 | 11.5 | |
| Passenger Vehicles | 212 | 1067 | 65 | 1344 | 104 | 261 | 190 | 555 | 210 | 1271 | 116 | 1597 | 44 | 174 | 230 | 448 | 3944 |
| % Passenger Vehicles | 99.5 | 99.3 | 100 | 99.4 | 100 | 100 | 99 | 99.6 | 98.1 | 99.4 | 99.1 | 99.2 | 100 | 96.7 | 99.1 | 98.2 | 99.2 |
| Large 2 Axle Vehicles | 1 | 6 | 0 | 7 | 0 | 0 | 2 | 2 | 4 | 4 | 1 | 9 | 0 | 6 | 2 | 8 | 26 |
| % Large 2 Axle Vehicles | 0.5 | 0.6 | 0 | 0.5 | 0 | 0 | 1 | 0.4 | 1.9 | 0.3 | 0.9 | 0.6 | 0 | 3.3 | 0.9 | 1.8 | 0.7 |
| 3 Axle Vehicles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| % 3 Axle Vehicles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.2 | 0 | 0.2 | 0 | 0 | 0 | 0 | 0.1 |
| 4+ Axle Trucks | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| % 4+ Axle Trucks | 0 | 0.1 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0.1 |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | **37** | **170** | **14** | **221** | 9 | 37 | 21 | 67 | 24 | 162 | 14 | 200 | 4 | **40** | **39** | **83** | **571** |
| 05:15 PM | 26 | 121 | 5 | 152 | 17 | **38** | 25 | 80 | **35** | 169 | **15** | 219 | 4 | 23 | 28 | 55 | 506 |
| 05:30 PM | 18 | 144 | 13 | 175 | 13 | 25 | 34 | 72 | 25 | 182 | 14 | 221 | **7** | 25 | 30 | 62 | 530 |
| 05:45 PM | 14 | 125 | 8 | 147 | 16 | 38 | **39** | **93** | 35 | **218** | 11 | **264** | 6 | 16 | 24 | 46 | 550 |
| Total Volume | 95 | 560 | 40 | 695 | 55 | 138 | 119 | 312 | 119 | 731 | 54 | 904 | 21 | 104 | 121 | 246 | 2157 |
| % App. Total | 13.7 | 80.6 | 5.8 | | 17.6 | 44.2 | 38.1 | | 13.2 | 80.9 | 6 | | 8.5 | 42.3 | 49.2 | | |
| PHF | .642 | .824 | .714 | .786 | .809 | .908 | .763 | .839 | .850 | .838 | .900 | .856 | .750 | .650 | .776 | .741 | .944 |

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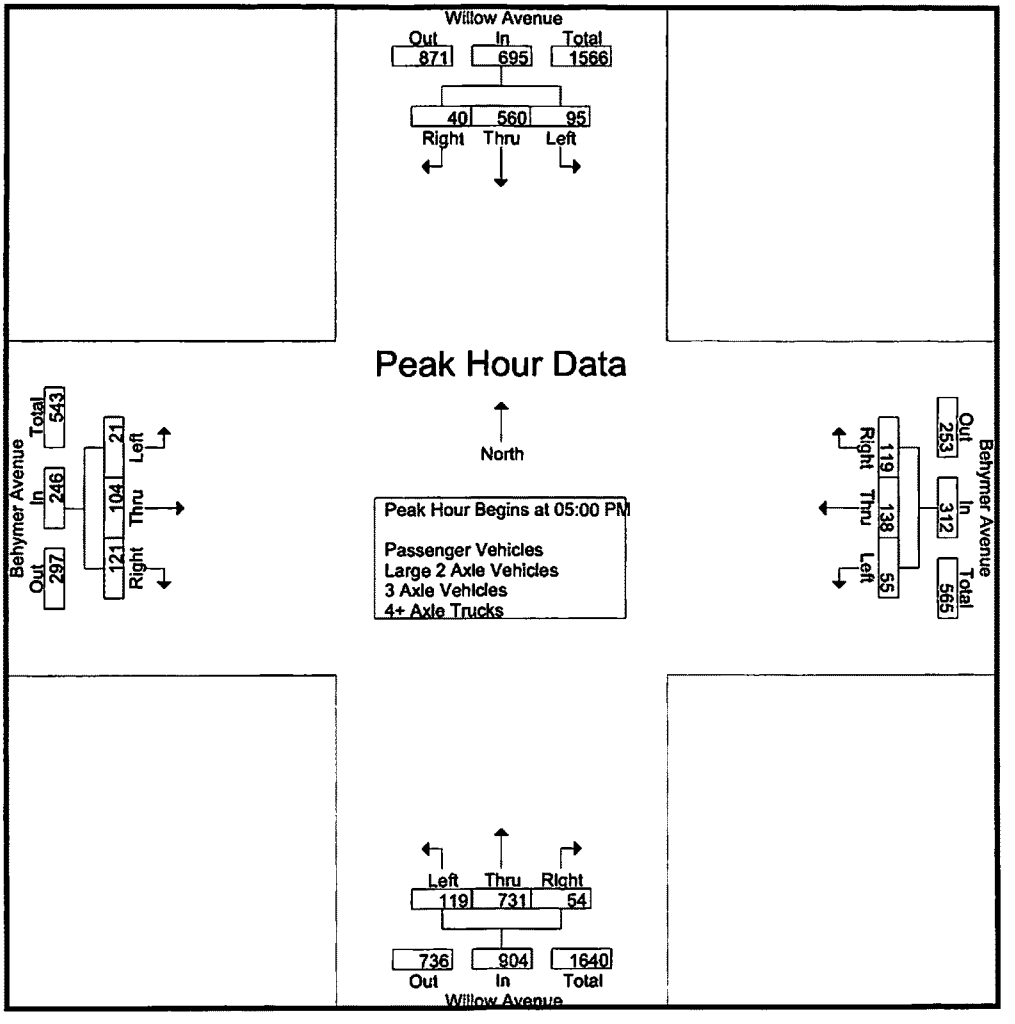
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 04:45 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | **40** | 145 | 11 | 196 | 9 | 37 | 21 | 67 | 24 | 162 | 14 | 200 | 4 | 18 | 33 | 55 |
| +15 mins. | 20 | 123 | 8 | 151 | 17 | **38** | 25 | 80 | **35** | 169 | **15** | 219 | 4 | **40** | **39** | **83** |
| +30 mins. | 37 | **170** | **14** | **221** | 13 | 25 | 34 | 72 | 25 | 182 | 14 | 221 | 4 | 23 | 28 | 55 |
| +45 mins. | 26 | 121 | 5 | 152 | 16 | 38 | **39** | **93** | 35 | **218** | 11 | **264** | 7 | 25 | 30 | 62 |
| Total Volume | 123 | 559 | 38 | 720 | 55 | 138 | 119 | 312 | 119 | 731 | 54 | 904 | 19 | 106 | 130 | 255 |
| % App. Total | 17.1 | 77.6 | 5.3 | | 17.6 | 44.2 | 38.1 | | 13.2 | 80.9 | 6 | | 7.5 | 41.6 | 51 | |
| PHF | .769 | .822 | .679 | .814 | .809 | .908 | .763 | .839 | .850 | .838 | .900 | .856 | .679 | .663 | .833 | .768 |

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 37 | 125 | 3 | 165 | 17 | 34 | 21 | 72 | 28 | 137 | 15 | 180 | 9 | 19 | 36 | 64 | 481 |
| 04:15 PM | 20 | 118 | 3 | 141 | 15 | 30 | 14 | 59 | 17 | 113 | 14 | 144 | 5 | 19 | 19 | 43 | 387 |
| 04:30 PM | 40 | 144 | 11 | 195 | 7 | 29 | 18 | 54 | 25 | 157 | 17 | 199 | 5 | 18 | 22 | 45 | 493 |
| 04:45 PM | 20 | 122 | 8 | 150 | 10 | 30 | 18 | 58 | 23 | 138 | 16 | 177 | 4 | 18 | 33 | 55 | 440 |
| Total | 117 | 509 | 25 | 651 | 49 | 123 | 71 | 243 | 93 | 545 | 62 | 700 | 23 | 74 | 110 | 207 | 1801 |
| 05:00 PM | 37 | 169 | 14 | 220 | 9 | 37 | 21 | 67 | 24 | 160 | 14 | 198 | 4 | 37 | 38 | 79 | 564 |
| 05:15 PM | 26 | 121 | 5 | 152 | 17 | 38 | 25 | 80 | 34 | 167 | 15 | 216 | 4 | 23 | 28 | 55 | 503 |
| 05:30 PM | 18 | 143 | 13 | 174 | 13 | 25 | 34 | 72 | 25 | 181 | 14 | 220 | 7 | 25 | 30 | 62 | 528 |
| 05:45 PM | 14 | 125 | 8 | 147 | 16 | 38 | 39 | 93 | 34 | 218 | 11 | 263 | 6 | 15 | 24 | 45 | 548 |
| Total | 95 | 558 | 40 | 693 | 55 | 138 | 119 | 312 | 117 | 726 | 54 | 897 | 21 | 100 | 120 | 241 | 2143 |
| Grand Total | 212 | 1067 | 65 | 1344 | 104 | 261 | 190 | 555 | 210 | 1271 | 116 | 1597 | 44 | 174 | 230 | 448 | 3944 |
| Apprch % | 15.8 | 79.4 | 4.8 | | 18.7 | 47 | 34.2 | | 13.1 | 79.6 | 7.3 | | 9.8 | 38.8 | 51.3 | | |
| Total % | 5.4 | 27.1 | 1.6 | 34.1 | 2.6 | 6.6 | 4.8 | 14.1 | 5.3 | 32.2 | 2.9 | 40.5 | 1.1 | 4.4 | 5.8 | 11.4 | |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | **37** | **169** | **14** | **220** | 9 | 37 | 21 | 67 | 24 | 160 | 14 | 198 | 4 | **37** | **38** | **79** | **564** |
| 05:15 PM | 26 | 121 | 5 | 152 | 17 | **38** | 25 | 80 | **34** | 167 | **15** | 216 | 4 | 23 | 28 | 55 | 503 |
| 05:30 PM | 18 | 143 | 13 | 174 | 13 | 25 | 34 | 72 | 25 | 181 | 14 | 220 | 7 | 25 | 30 | 62 | 528 |
| 05:45 PM | 14 | 125 | 8 | 147 | 16 | 38 | **39** | **93** | 34 | **218** | 11 | **263** | 6 | 15 | 24 | 45 | 548 |
| Total Volume | 95 | 558 | 40 | 693 | 55 | 138 | 119 | 312 | 117 | 726 | 54 | 897 | 21 | 100 | 120 | 241 | 2143 |
| % App. Total | 13.7 | 80.5 | 5.8 | | 17.6 | 44.2 | 38.1 | | 13 | 80.9 | 6 | | 8.7 | 41.5 | 49.8 | | |
| PHF | .642 | .825 | .714 | .788 | .809 | .908 | .763 | .839 | .860 | .833 | .900 | .853 | .750 | .676 | .789 | .763 | .950 |

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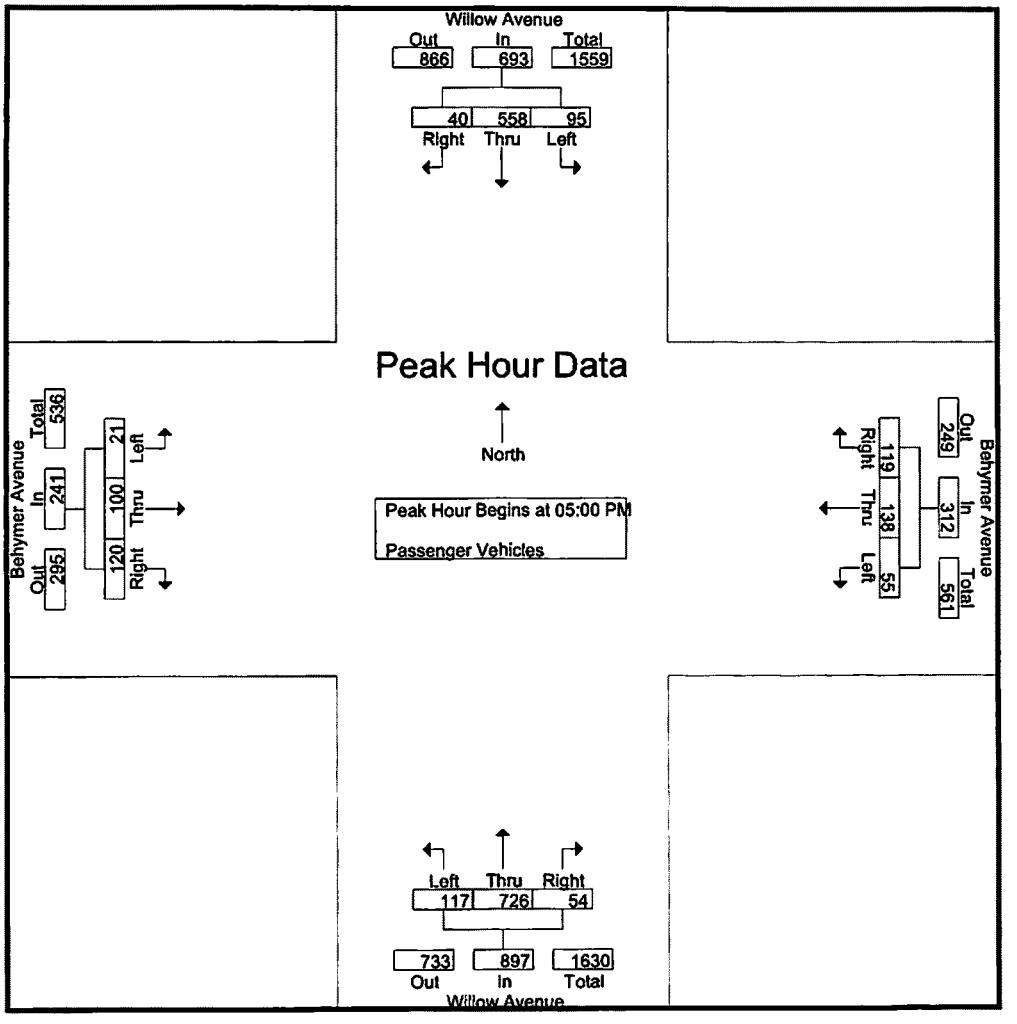
File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 37 | **169** | 14 | **220** | 9 | 37 | 21 | 67 | 24 | 160 | 14 | 198 | 4 | **37** | **38** | **79** |
| +15 mins. | 26 | 121 | 5 | 152 | 17 | **38** | 25 | 80 | **34** | 167 | **15** | 216 | 4 | 23 | 28 | 55 |
| +30 mins. | 18 | 143 | 13 | 174 | 13 | 25 | 34 | 72 | 25 | 181 | 14 | 220 | 7 | 25 | 30 | 62 |
| +45 mins. | 14 | 125 | 8 | 147 | 16 | 38 | **39** | **93** | 34 | **218** | 11 | **263** | 6 | 15 | 24 | 45 |
| Total Volume | 95 | 558 | 40 | 693 | 55 | 138 | 119 | 312 | 117 | 726 | 54 | 897 | 21 | 100 | 120 | 241 |
| % App. Total | 13.7 | 80.5 | 5.8 | | 17.6 | 44.2 | 38.1 | | 13 | 80.9 | 6 | | 8.7 | 41.5 | 49.8 | |
| PHF | .642 | .825 | .714 | .788 | .809 | .908 | .763 | .839 | .860 | .833 | .900 | .853 | .750 | .676 | .789 | .763 |

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 4 |
| 04:15 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 1 | 2 | 5 |
| 04:30 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 3 |
| 04:45 PM | 0 | 1 | 0 | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Total | 1 | 4 | 0 | 5 | 0 | 0 | 2 | 2 | 2 | 2 | 1 | 5 | 0 | 2 | 1 | 3 | 15 |
| 05:00 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 1 | 4 | 6 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 05:30 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| Total | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 | 0 | 4 | 1 | 5 | 11 |
| Grand Total | 1 | 6 | 0 | 7 | 0 | 0 | 2 | 2 | 4 | 4 | 1 | 9 | 0 | 6 | 2 | 8 | 26 |
| Apprch % | 14.3 | 85.7 | 0 | | 0 | 0 | 100 | | 44.4 | 44.4 | 11.1 | | 0 | 75 | 25 | | |
| Total % | 3.8 | 23.1 | 0 | 26.9 | 0 | 0 | 7.7 | 7.7 | 15.4 | 15.4 | 3.8 | 34.6 | 0 | 23.1 | 7.7 | 30.8 | |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | **1** | 0 | **1** | 0 | 0 | 0 | 0 | 0 | **1** | 0 | 1 | 0 | **3** | 1 | 4 | **6** |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | **2** | 0 | 0 | 0 | 0 | 2 |
| 05:30 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| Total Volume | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 | 0 | 4 | 1 | 5 | 11 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 50 | 50 | 0 | | 0 | 80 | 20 | | |
| PHF | .000 | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .500 | .500 | .000 | .500 | .000 | .333 | .250 | .313 | .458 |

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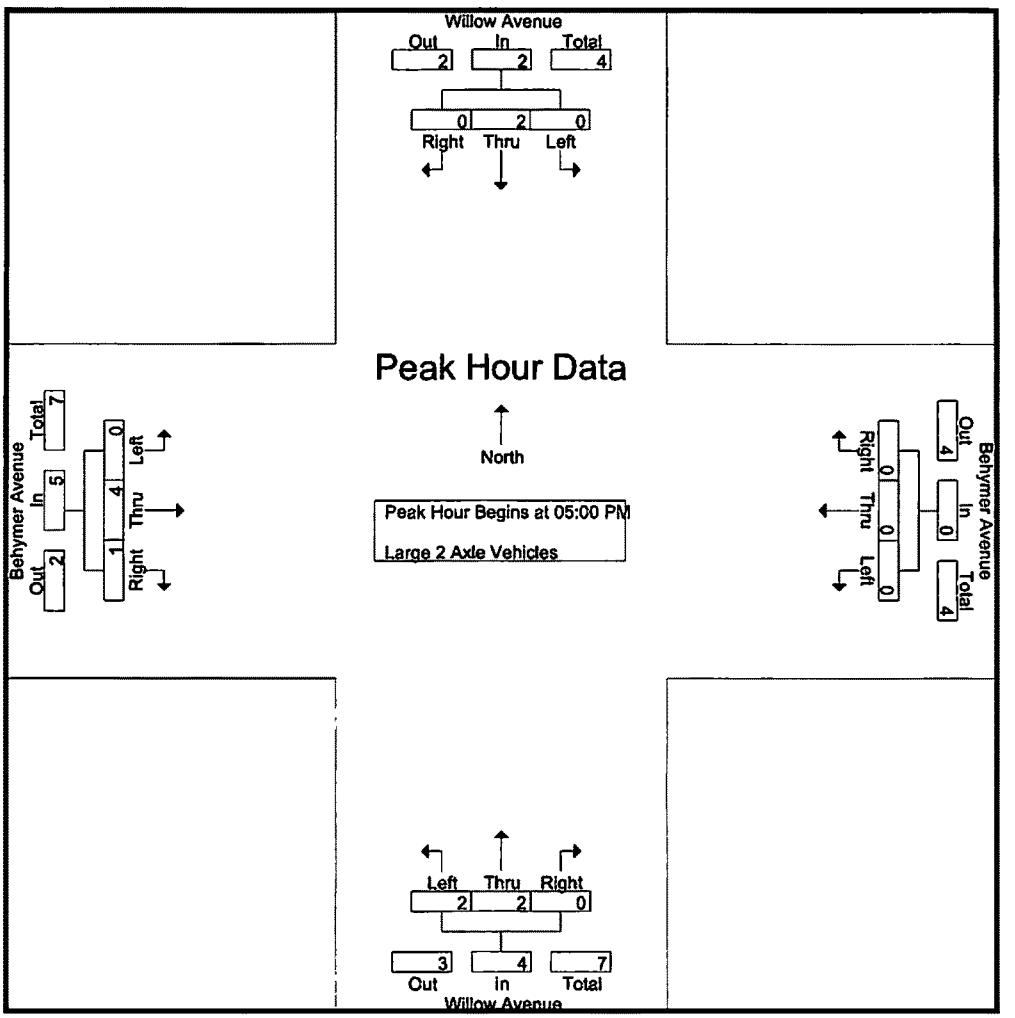
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 1 | 4 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| Total Volume | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 | 0 | 4 | 1 | 5 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 50 | 50 | 0 | | 0 | 80 | 20 | |
| PHF | .000 | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .500 | .500 | .000 | .500 | .000 | .333 | .250 | .313 |

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| Apprch % | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | | |
| Total % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| % App. Total | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .500 |

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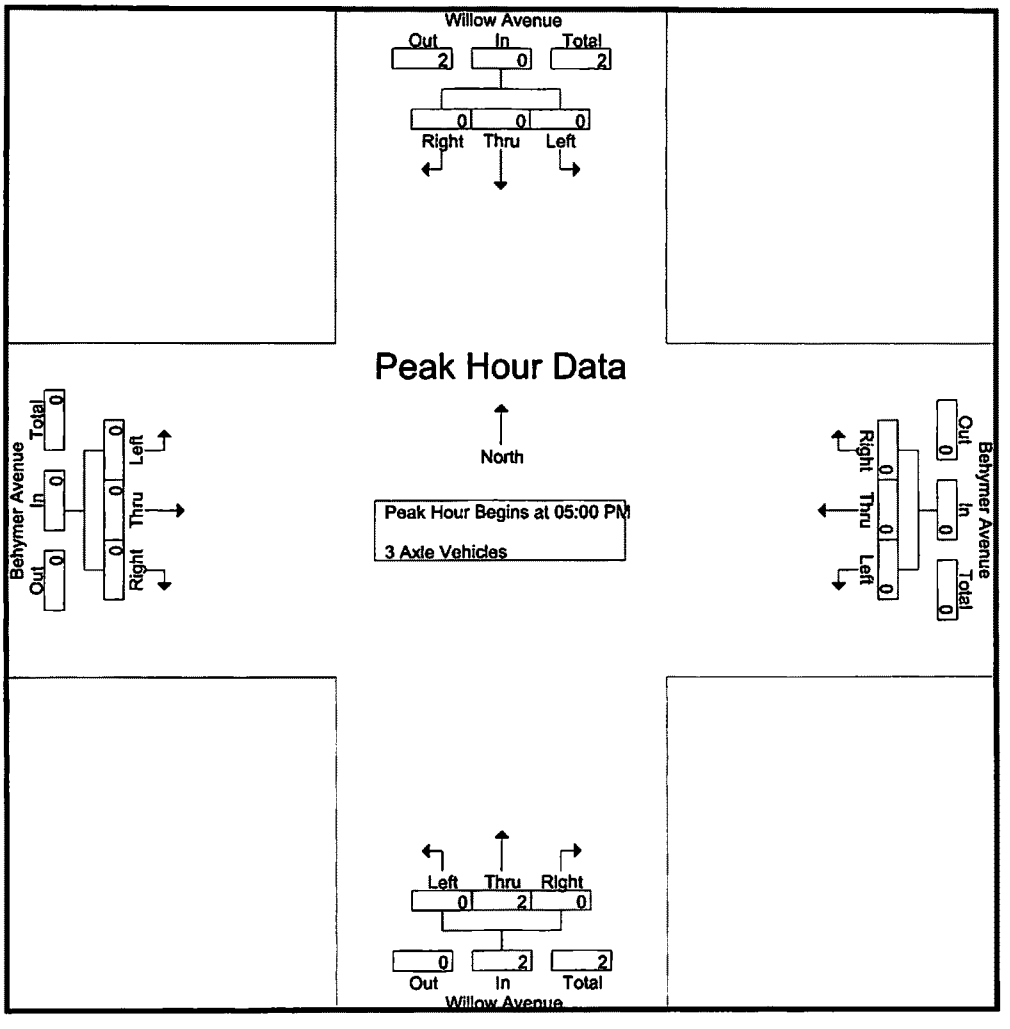
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .500 | .000 | .500 | .000 | .000 | .000 | .000 |

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Grand Total | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| Apprch % | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | | |
| Total % | 0 | 50 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 50 | 0 | 50 | 0 | 0 | 0 | 0 | |

| | Willow Avenue Southbound | | | | Behymer Avenue Westbound | | | | Willow Avenue Northbound | | | | Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| % App. Total | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .000 | .000 | .000 | .250 |

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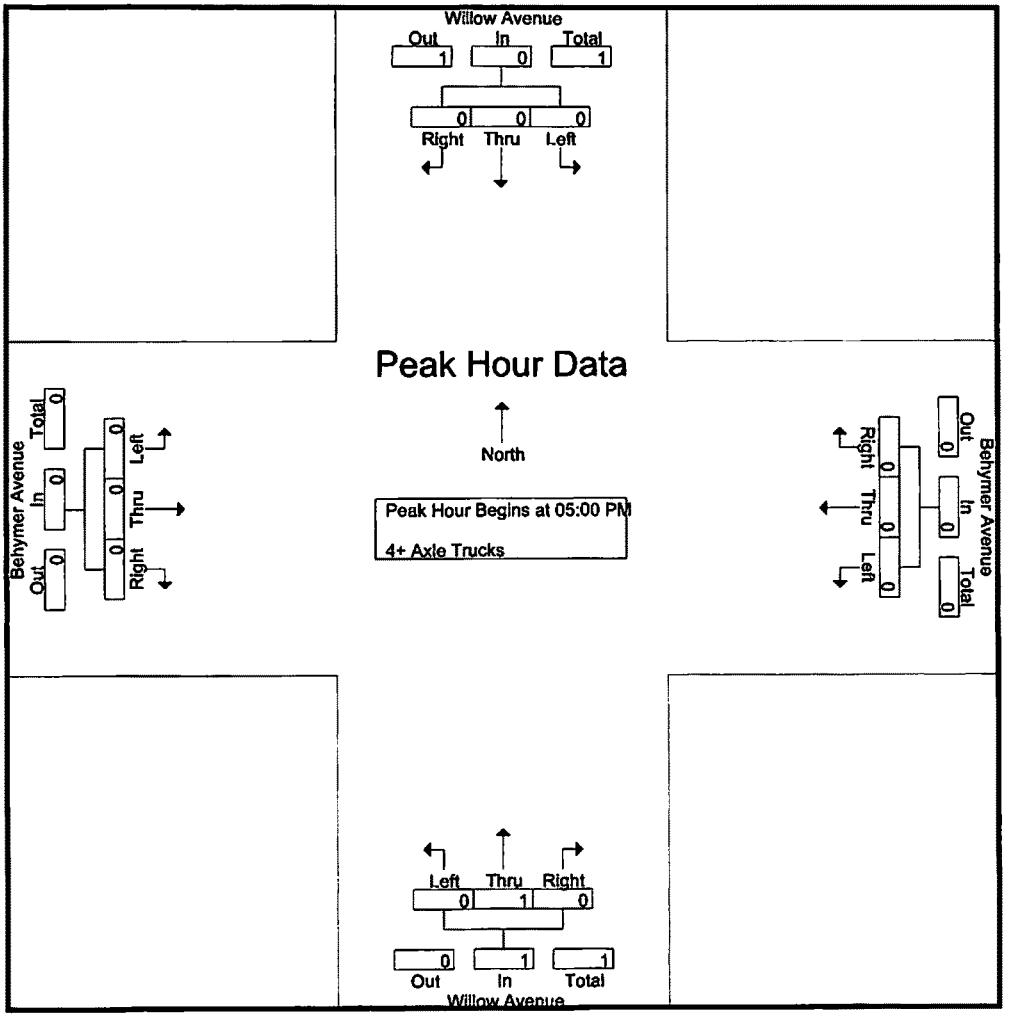
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .000 | .000 | .000 |

Location: Clovis
N/S: Willow Avenue
E/W: Behymer Avenue

Date: 3/6/2024
Day: Wednesday

**PEDESTRIANS**

| | North Leg Willow Avenue | East Leg Behymer Avenue | South Leg Willow Avenue | West Leg Behymer Avenue | |
|---|---|---|---|---|---|
| | Pedestrians | Pedestrians | Pedestrians | Pedestrians | |
| 7:00 AM | 0 | 0 | 0 | 1 | 1 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 1 | 1 |
| 7:45 AM | 0 | 0 | 0 | 1 | 1 |
| 8:00 AM | 0 | 0 | 0 | 4 | 4 |
| 8:15 AM | 0 | 0 | 0 | 2 | 2 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 9 | 9 |

| | North Leg Willow Avenue | East Leg Behymer Avenue | South Leg Willow Avenue | West Leg Behymer Avenue | |
|---|---|---|---|---|---|
| | Pedestrians | Pedestrians | Pedestrians | Pedestrians | |
| 4:00 PM | 0 | 0 | 0 | 1 | 1 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 1 | 1 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 2 | 2 |

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Location: Clovis
N/S: Willow Avenue
E/W: Behymer Avenue

Date: 3/6/2024
Day: Wednesday

**BICYCLES**

| | Southbound Willow Avenue | | | Westbound Behymer Avenue | | | Northbound Willow Avenue | | | Eastbound Behymer Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 3 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 5 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 2 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 4 | 0 | 1 | 16 |

| | Southbound Willow Avenue | | | Westbound Behymer Avenue | | | Northbound Willow Avenue | | | Eastbound Behymer Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 4:00 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:15 PM | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 4:45 PM | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 5 |
| 5:00 PM | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:15 PM | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| TOTAL VOLUMES: | 0 | 12 | 1 | 0 | 0 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 20 |

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 07:00 AM | 73 | 6 | 79 | 24 | 45 | 69 | 13 | 47 | 60 | 208 |
| 07:15 AM | 124 | 10 | 134 | 22 | 84 | 106 | 10 | 56 | 66 | 306 |
| 07:30 AM | 177 | 21 | 198 | 46 | 108 | 154 | 29 | 69 | 98 | 450 |
| 07:45 AM | 181 | 22 | 203 | 24 | 170 | 194 | 29 | 59 | 88 | 485 |
| Total | 555 | 59 | 614 | 116 | 407 | 523 | 81 | 231 | 312 | 1449 |
| 08:00 AM | 171 | 16 | 187 | 29 | 165 | 194 | 56 | 29 | 85 | 466 |
| 08:15 AM | 181 | 27 | 208 | 16 | 168 | 184 | 51 | 46 | 97 | 489 |
| 08:30 AM | 225 | 34 | 259 | 19 | 182 | 201 | 29 | 33 | 62 | 522 |
| 08:45 AM | 159 | 12 | 171 | 29 | 149 | 178 | 25 | 25 | 50 | 399 |
| Total | 736 | 89 | 825 | 93 | 664 | 757 | 161 | 133 | 294 | 1876 |
| Grand Total | 1291 | 148 | 1439 | 209 | 1071 | 1280 | 242 | 364 | 606 | 3325 |
| Apprch % | 89.7 | 10.3 | | 16.3 | 83.7 | | 39.9 | 60.1 | | |
| Total % | 38.8 | 4.5 | 43.3 | 6.3 | 32.2 | 38.5 | 7.3 | 10.9 | 18.2 | |
| Passenger Vehicles | 1258 | 147 | 1405 | 208 | 1046 | 1254 | 239 | 358 | 597 | 3256 |
| % Passenger Vehicles | 97.4 | 99.3 | 97.6 | 99.5 | 97.7 | 98 | 98.8 | 98.4 | 98.5 | 97.9 |
| Large 2 Axle Vehicles | 28 | 1 | 29 | 0 | 19 | 19 | 2 | 4 | 6 | 54 |
| % Large 2 Axle Vehicles | 2.2 | 0.7 | 2 | 0 | 1.8 | 1.5 | 0.8 | 1.1 | 1 | 1.6 |
| 3 Axle Vehicles | 3 | 0 | 3 | 1 | 5 | 6 | 1 | 1 | 2 | 11 |
| % 3 Axle Vehicles | 0.2 | 0 | 0.2 | 0.5 | 0.5 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 |
| 4+ Axle Trucks | 2 | 0 | 2 | 0 | 1 | 1 | 0 | 1 | 1 | 4 |
| % 4+ Axle Trucks | 0.2 | 0 | 0.1 | 0 | 0.1 | 0.1 | 0 | 0.3 | 0.2 | 0.1 |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | |
| 07:45 AM | 181 | 22 | 203 | 24 | 170 | 194 | 29 | **59** | 88 | 485 |
| 08:00 AM | 171 | 16 | 187 | **29** | 165 | 194 | **56** | 29 | 85 | 466 |
| 08:15 AM | 181 | 27 | 208 | 16 | 168 | 184 | 51 | 46 | **97** | 489 |
| 08:30 AM | **225** | **34** | **259** | 19 | **182** | **201** | 29 | 33 | 62 | **522** |
| Total Volume | 758 | 99 | 857 | 88 | 685 | 773 | 165 | 167 | 332 | 1962 |
| % App. Total | 88.4 | 11.6 | | 11.4 | 88.6 | | 49.7 | 50.3 | | |
| PHF | .842 | .728 | .827 | .759 | .941 | .961 | .737 | .708 | .856 | .940 |

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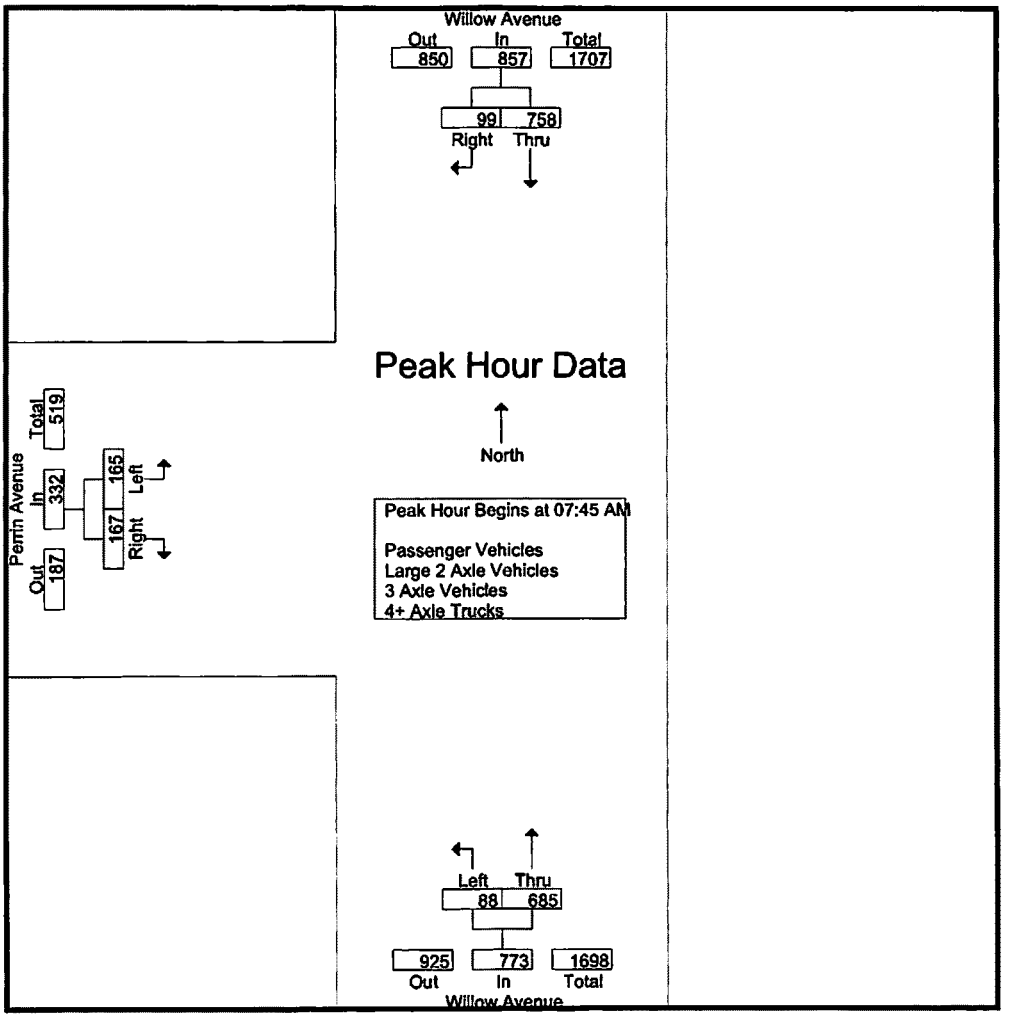
City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | 07:45 AM | | | 07:30 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 181 | 22 | 203 | 24 | 170 | 194 | 29 | **69** | **98** |
| +15 mins. | 171 | 16 | 187 | **29** | 165 | 194 | 29 | 59 | 88 |
| +30 mins. | 181 | 27 | 208 | 16 | 168 | 184 | **56** | 29 | 85 |
| +45 mins. | **225** | **34** | **259** | 19 | **182** | **201** | 51 | 46 | 97 |
| Total Volume | 758 | 99 | 857 | 88 | 685 | 773 | 165 | 203 | 368 |
| % App. Total | 88.4 | 11.6 | | 11.4 | 88.6 | | 44.8 | 55.2 | |
| PHF | .842 | .728 | .827 | .759 | .941 | .961 | .737 | .736 | .939 |

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Corona, CA 92878
(951) 268-6268

City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 07:00 AM | 71 | 6 | 77 | 24 | 42 | 66 | 13 | 47 | 60 | 203 |
| 07:15 AM | 120 | 10 | 130 | 22 | 80 | 102 | 10 | 55 | 65 | 297 |
| 07:30 AM | 175 | 21 | 196 | 46 | 106 | 152 | 29 | 67 | 96 | 444 |
| 07:45 AM | 178 | 22 | 200 | 23 | 165 | 188 | 28 | 57 | 85 | 473 |
| Total | 544 | 59 | 603 | 115 | 393 | 508 | 80 | 226 | 306 | 1417 |
| 08:00 AM | 163 | 16 | 179 | 29 | 161 | 190 | 54 | 28 | 82 | 451 |
| 08:15 AM | 173 | 26 | 199 | 16 | 165 | 181 | 51 | 46 | 97 | 477 |
| 08:30 AM | 220 | 34 | 254 | 19 | 179 | 198 | 29 | 33 | 62 | 514 |
| 08:45 AM | 158 | 12 | 170 | 29 | 148 | 177 | 25 | 25 | 50 | 397 |
| Total | 714 | 88 | 802 | 93 | 653 | 746 | 159 | 132 | 291 | 1839 |
| Grand Total | 1258 | 147 | 1405 | 208 | 1046 | 1254 | 239 | 358 | 597 | 3256 |
| Apprch % | 89.5 | 10.5 | | 16.6 | 83.4 | | 40 | 60 | | |
| Total % | 38.6 | 4.5 | 43.2 | 6.4 | 32.1 | 38.5 | 7.3 | 11 | 18.3 | |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | |
| 07:45 AM | 178 | 22 | 200 | 23 | 165 | 188 | 28 | 57 | 85 | 473 |
| 08:00 AM | 163 | 16 | 179 | 29 | 161 | 190 | 54 | 28 | 82 | 451 |
| 08:15 AM | 173 | 26 | 199 | 16 | 165 | 181 | 51 | 46 | 97 | 477 |
| 08:30 AM | 220 | 34 | 254 | 19 | 179 | 198 | 29 | 33 | 62 | 514 |
| Total Volume | 734 | 98 | 832 | 87 | 670 | 757 | 162 | 164 | 326 | 1915 |
| % App. Total | 88.2 | 11.8 | | 11.5 | 88.5 | | 49.7 | 50.3 | | |
| PHF | .834 | .721 | .819 | .750 | .936 | .956 | .750 | .719 | .840 | .931 |

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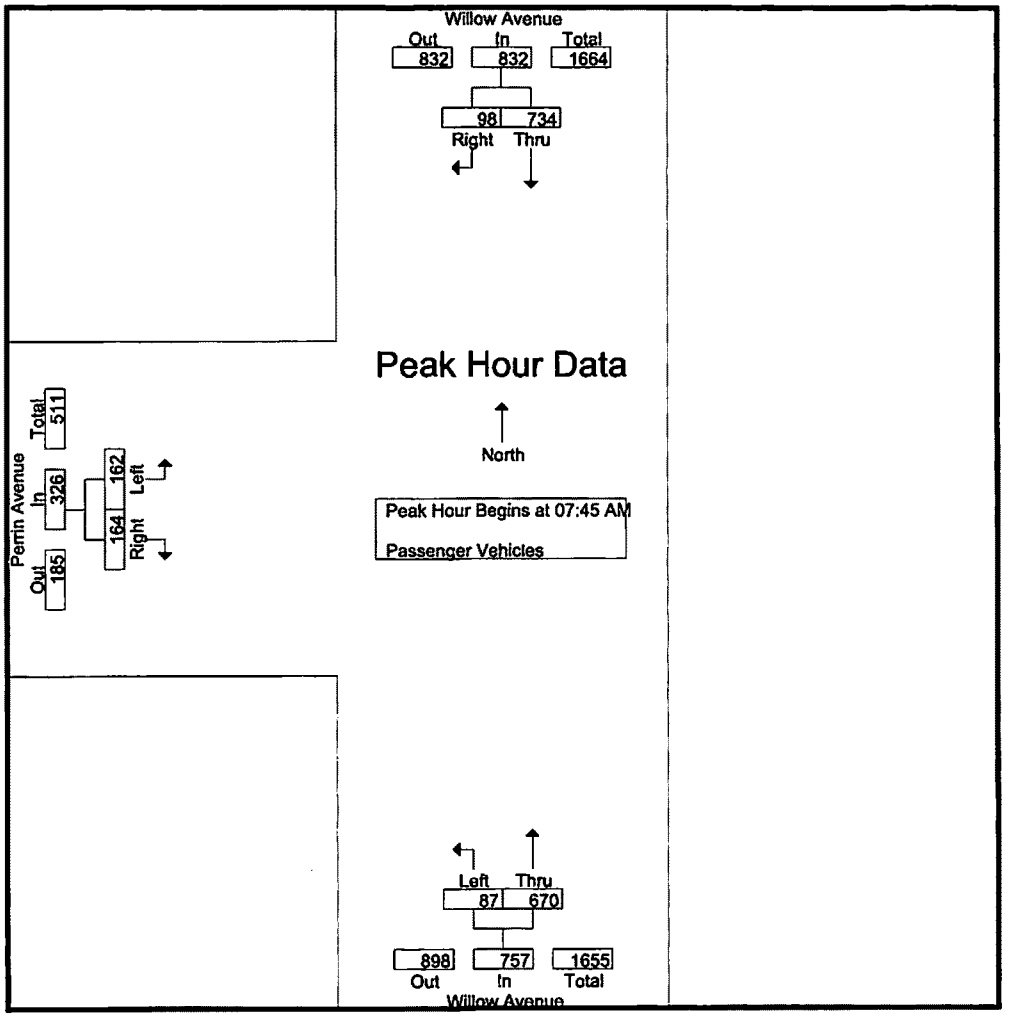
City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | 07:45 AM | | | 07:45 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 178 | 22 | 200 | 23 | 165 | 188 | 28 | 57 | 85 |
| +15 mins. | 163 | 16 | 179 | 29 | 161 | 190 | 54 | 28 | 82 |
| +30 mins. | 173 | 26 | 199 | 16 | 165 | 181 | 51 | 46 | 97 |
| +45 mins. | 220 | 34 | 254 | 19 | 179 | 198 | 29 | 33 | 62 |
| Total Volume | 734 | 98 | 832 | 87 | 670 | 757 | 162 | 164 | 326 |
| % App. Total | 88.2 | 11.8 | | 11.5 | 88.5 | | 49.7 | 50.3 | |
| PHF | .834 | .721 | .819 | .750 | .936 | .956 | .750 | .719 | .840 |

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 07:00 AM | 2 | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 4 |
| 07:15 AM | 4 | 0 | 4 | 0 | 4 | 4 | 0 | 0 | 0 | 8 |
| 07:30 AM | 2 | 0 | 2 | 0 | 1 | 1 | 0 | 1 | 1 | 4 |
| 07:45 AM | 3 | 0 | 3 | 0 | 2 | 2 | 1 | 2 | 3 | 8 |
| Total | 11 | 0 | 11 | 0 | 9 | 9 | 1 | 3 | 4 | 24 |
| 08:00 AM | 5 | 0 | 5 | 0 | 4 | 4 | 1 | 1 | 2 | 11 |
| 08:15 AM | 6 | 1 | 7 | 0 | 3 | 3 | 0 | 0 | 0 | 10 |
| 08:30 AM | 5 | 0 | 5 | 0 | 3 | 3 | 0 | 0 | 0 | 8 |
| 08:45 AM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 17 | 1 | 18 | 0 | 10 | 10 | 1 | 1 | 2 | 30 |
| Grand Total | 28 | 1 | 29 | 0 | 19 | 19 | 2 | 4 | 6 | 54 |
| Apprch % | 96.6 | 3.4 | | 0 | 100 | | 33.3 | 66.7 | | |
| Total % | 51.9 | 1.9 | 53.7 | 0 | 35.2 | 35.2 | 3.7 | 7.4 | 11.1 | |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | |
| 07:45 AM | 3 | 0 | 3 | 0 | 2 | 2 | 1 | 2 | 3 | 8 |
| 08:00 AM | 5 | 0 | 5 | 0 | 4 | 4 | 1 | 1 | 2 | 11 |
| 08:15 AM | 6 | 1 | 7 | 0 | 3 | 3 | 0 | 0 | 0 | 10 |
| 08:30 AM | 5 | 0 | 5 | 0 | 3 | 3 | 0 | 0 | 0 | 8 |
| Total Volume | 19 | 1 | 20 | 0 | 12 | 12 | 2 | 3 | 5 | 37 |
| % App. Total | 95 | 5 | | 0 | 100 | | 40 | 60 | | |
| PHF | .792 | .250 | .714 | .000 | .750 | .750 | .500 | .375 | .417 | .841 |

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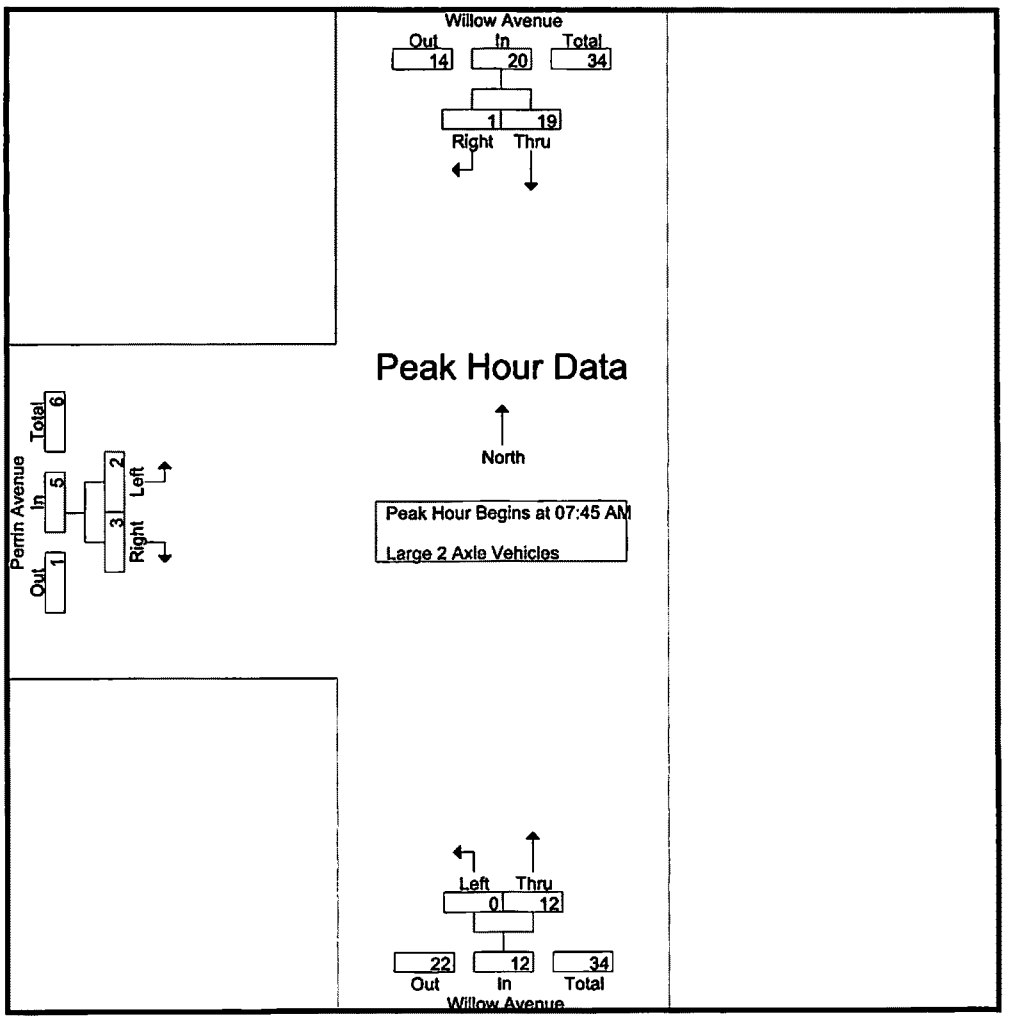
City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | 07:45 AM | | | 07:45 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 3 | 0 | 3 | 0 | 2 | 2 | 1 | 2 | 3 |
| +15 mins. | 5 | 0 | 5 | 0 | 4 | 4 | 1 | 1 | 2 |
| +30 mins. | 6 | 1 | 7 | 0 | 3 | 3 | 0 | 0 | 0 |
| +45 mins. | 5 | 0 | 5 | 0 | 3 | 3 | 0 | 0 | 0 |
| Total Volume | 19 | 1 | 20 | 0 | 12 | 12 | 2 | 3 | 5 |
| % App. Total | 95 | 5 | | 0 | 100 | | 40 | 60 | |
| PHF | .792 | .250 | .714 | .000 | .750 | .750 | .500 | .375 | .417 |

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 AM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 2 |
| 07:45 AM | 0 | 0 | 0 | 1 | 3 | 4 | 0 | 0 | 0 | 4 |
| Total | 0 | 0 | 0 | 1 | 4 | 5 | 0 | 1 | 1 | 6 |
| 08:00 AM | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 3 |
| 08:15 AM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| Total | 3 | 0 | 3 | 0 | 1 | 1 | 1 | 0 | 1 | 5 |
| Grand Total | 3 | 0 | 3 | 1 | 5 | 6 | 1 | 1 | 2 | 11 |
| Apprch % | 100 | 0 | | 16.7 | 83.3 | | 50 | 50 | | |
| Total % | 27.3 | 0 | 27.3 | 9.1 | 45.5 | 54.5 | 9.1 | 9.1 | 18.2 | |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | |
| 07:45 AM | 0 | 0 | 0 | 1 | 3 | 4 | 0 | 0 | 0 | 4 |
| 08:00 AM | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 3 |
| 08:15 AM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 3 | 0 | 3 | 1 | 3 | 4 | 1 | 0 | 1 | 8 |
| % App. Total | 100 | 0 | | 25 | 75 | | 100 | 0 | | |
| PHF | .375 | .000 | .375 | .250 | .250 | .250 | .250 | .000 | .250 | .500 |

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City of Clovis
N/S: Willow Avenue
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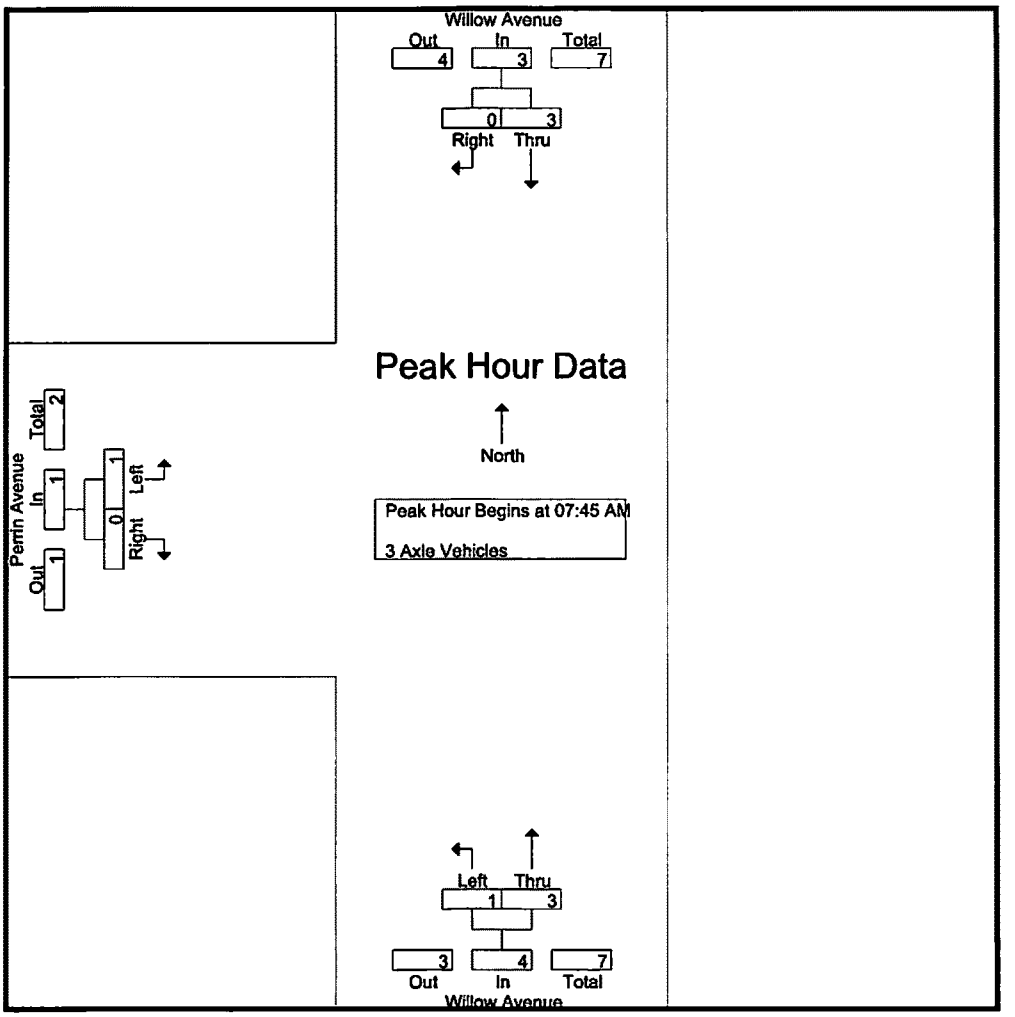
File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | 07:45 AM | | | 07:45 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 1 | 3 | 4 | 0 | 0 | 0 |
| +15 mins. | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 1 |
| +30 mins. | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 3 | 0 | 3 | 1 | 3 | 4 | 1 | 0 | 1 |
| % App. Total | 100 | 0 | | 25 | 75 | | 100 | 0 | |
| PHF | .375 | .000 | .375 | .250 | .250 | .250 | .250 | .000 | .250 |

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 2 |
| 08:00 AM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:15 AM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Grand Total | 2 | 0 | 2 | 0 | 1 | 1 | 0 | 1 | 1 | 4 |
| Apprch % | 100 | 0 | | 0 | 100 | | 0 | 100 | | |
| Total % | 50 | 0 | 50 | 0 | 25 | 25 | 0 | 25 | 25 | |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 AM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:15 AM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| % App. Total | 100 | 0 | | 0 | 0 | | 0 | 0 | | |
| PHF | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .000 | .000 | .500 |

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City of Clovis
N/S: Willow Avenue
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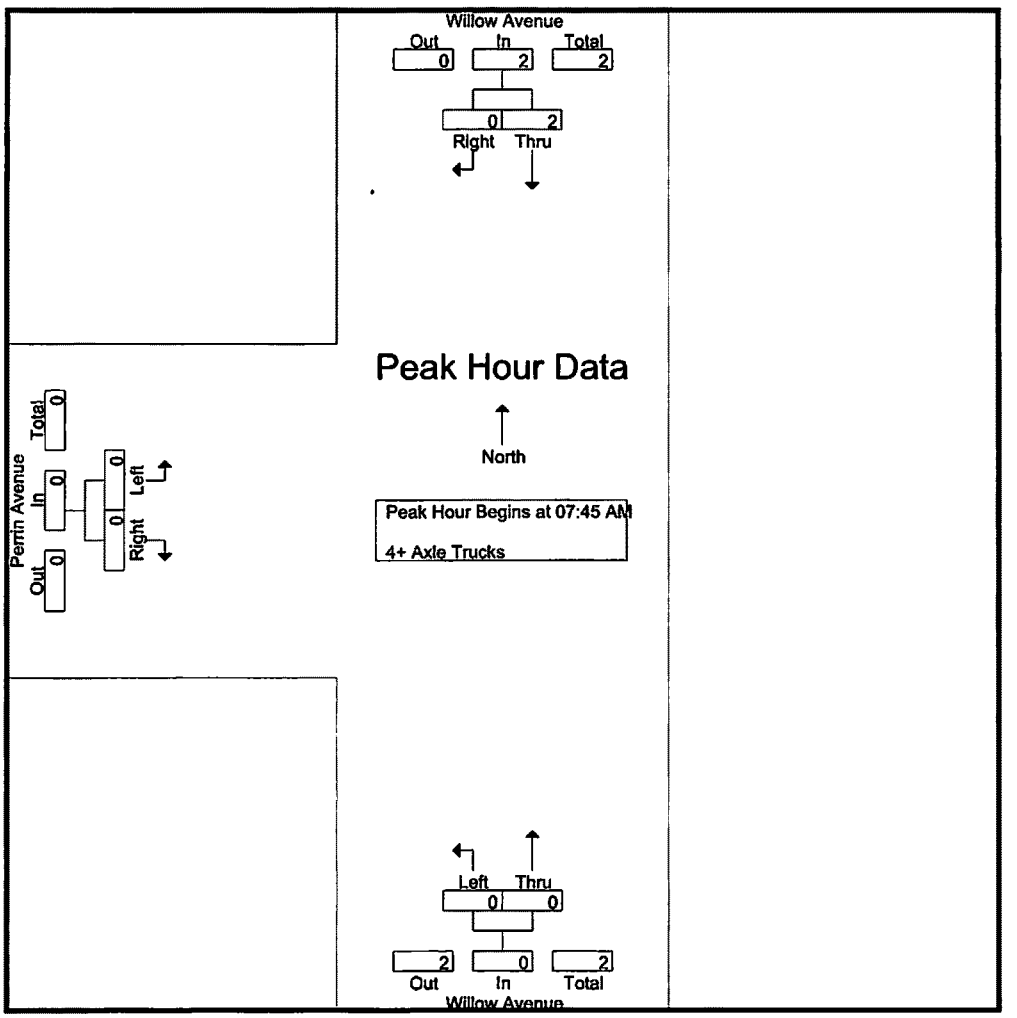
File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | 07:45 AM | | | 07:45 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 100 | 0 | | 0 | 0 | | 0 | 0 | |
| PHF | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .000 | .000 |

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 04:00 PM | 170 | 19 | 189 | 42 | 171 | 213 | 27 | 36 | 63 | 465 |
| 04:15 PM | 135 | 20 | 155 | 47 | 144 | 191 | 21 | 40 | 61 | 407 |
| 04:30 PM | 164 | 13 | 177 | 47 | 168 | 215 | 17 | 44 | 61 | 453 |
| 04:45 PM | 149 | 17 | 166 | 63 | 178 | 241 | 21 | 39 | 60 | 467 |
| Total | 618 | 69 | 687 | 199 | 661 | 860 | 86 | 159 | 245 | 1792 |
| | | | | | | | | | | |
| 05:00 PM | 213 | 20 | 233 | 39 | 194 | 233 | 26 | 47 | 73 | 539 |
| 05:15 PM | 148 | 22 | 170 | 60 | 203 | 263 | 26 | 48 | 74 | 507 |
| 05:30 PM | 166 | 26 | 192 | 45 | 210 | 255 | 29 | 54 | 83 | 530 |
| 05:45 PM | 144 | 21 | 165 | 55 | 248 | 303 | 33 | 44 | 77 | 545 |
| Total | 671 | 89 | 760 | 199 | 855 | 1054 | 114 | 193 | 307 | 2121 |
| | | | | | | | | | | |
| Grand Total | 1289 | 158 | 1447 | 398 | 1516 | 1914 | 200 | 352 | 552 | 3913 |
| Apprch % | 89.1 | 10.9 | | 20.8 | 79.2 | | 36.2 | 63.8 | | |
| Total % | 32.9 | 4 | 37 | 10.2 | 38.7 | 48.9 | 5.1 | 9 | 14.1 | |
| Passenger Vehicles | 1280 | 158 | 1438 | 396 | 1502 | 1898 | 200 | 351 | 551 | 3887 |
| % Passenger Vehicles | 99.3 | 100 | 99.4 | 99.5 | 99.1 | 99.2 | 100 | 99.7 | 99.8 | 99.3 |
| Large 2 Axle Vehicles | 8 | 0 | 8 | 1 | 9 | 10 | 0 | 1 | 1 | 19 |
| % Large 2 Axle Vehicles | 0.6 | 0 | 0.6 | 0.3 | 0.6 | 0.5 | 0 | 0.3 | 0.2 | 0.5 |
| 3 Axle Vehicles | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| % 3 Axle Vehicles | 0 | 0 | 0 | 0.3 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| 4+ Axle Trucks | 1 | 0 | 1 | 0 | 5 | 5 | 0 | 0 | 0 | 6 |
| % 4+ Axle Trucks | 0.1 | 0 | 0.1 | 0 | 0.3 | 0.3 | 0 | 0 | 0 | 0.2 |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | **213** | 20 | **233** | 39 | 194 | 233 | 26 | 47 | 73 | 539 |
| 05:15 PM | 148 | 22 | 170 | **60** | 203 | 263 | 26 | 48 | 74 | 507 |
| 05:30 PM | 166 | **26** | 192 | 45 | 210 | 255 | 29 | **54** | **83** | 530 |
| 05:45 PM | 144 | 21 | 165 | 55 | **248** | **303** | **33** | 44 | 77 | **545** |
| Total Volume | 671 | 89 | 760 | 199 | 855 | 1054 | 114 | 193 | 307 | 2121 |
| % App. Total | 88.3 | 11.7 | | 18.9 | 81.1 | | 37.1 | 62.9 | | |
| PHF | .788 | .856 | .815 | .829 | .862 | .870 | .864 | .894 | .925 | .973 |

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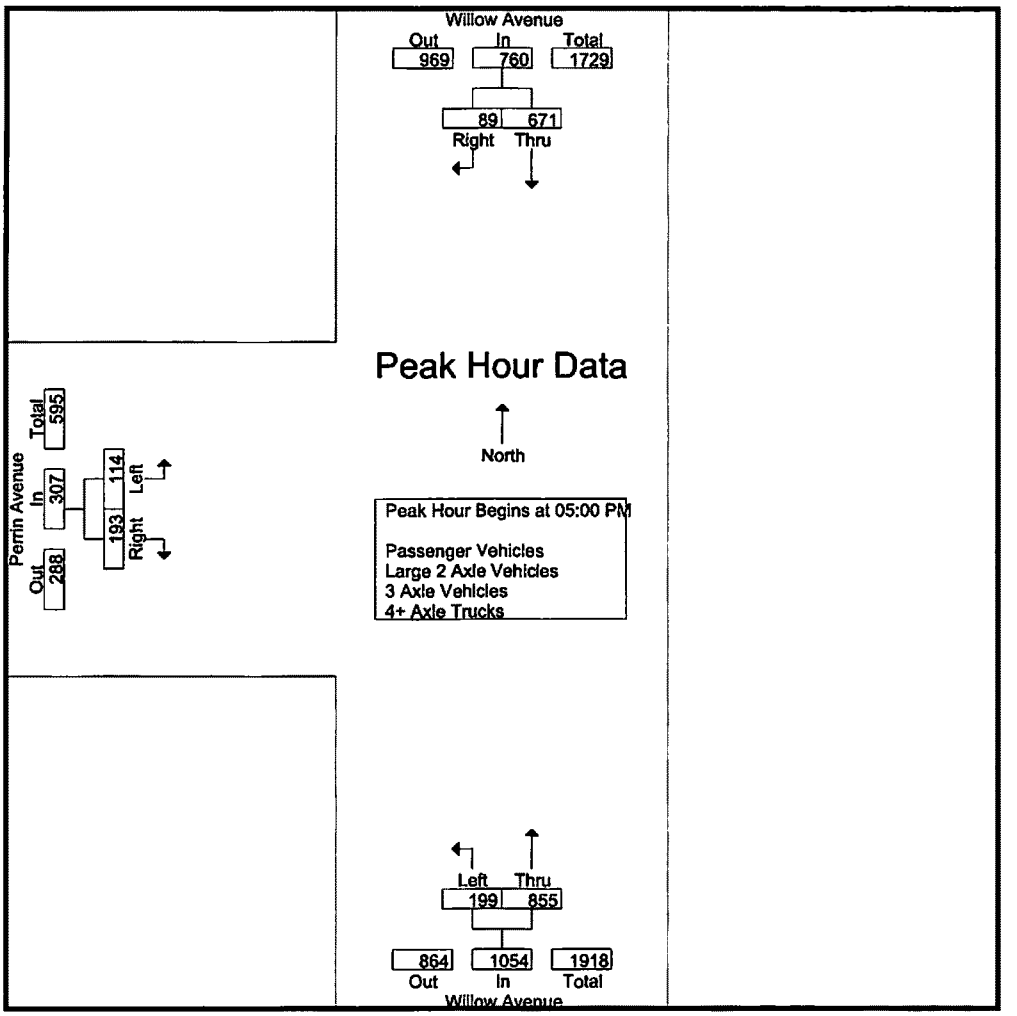
City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:45 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 149 | 17 | 166 | 39 | 194 | 233 | 26 | 47 | 73 |
| +15 mins. | **213** | 20 | **233** | **60** | 203 | 263 | 26 | 48 | 74 |
| +30 mins. | 148 | 22 | 170 | 45 | 210 | 255 | 29 | **54** | **83** |
| +45 mins. | 166 | **26** | 192 | 55 | **248** | **303** | **33** | 44 | 77 |
| Total Volume | 676 | 85 | 761 | 199 | 855 | 1054 | 114 | 193 | 307 |
| % App. Total | 88.8 | 11.2 | | 18.9 | 81.1 | | 37.1 | 62.9 | |
| PHF | .793 | .817 | .817 | .829 | .862 | .870 | .864 | .894 | .925 |

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

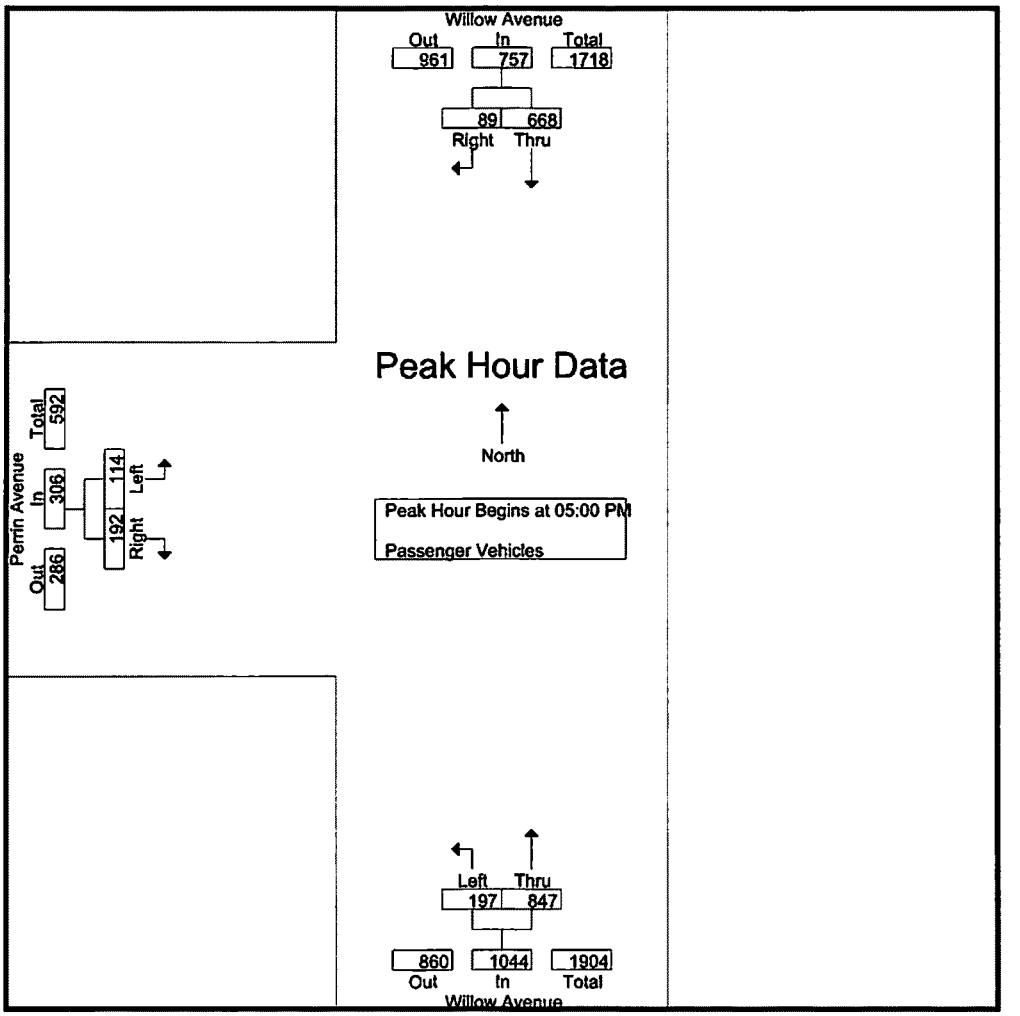
| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 04:00 PM | 168 | 19 | 187 | 42 | 170 | 212 | 27 | 36 | 63 | 462 |
| 04:15 PM | 133 | 20 | 153 | 47 | 142 | 189 | 21 | 40 | 61 | 403 |
| 04:30 PM | 163 | 13 | 176 | 47 | 166 | 213 | 17 | 44 | 61 | 450 |
| 04:45 PM | 148 | 17 | 165 | 63 | 177 | 240 | 21 | 39 | 60 | 465 |
| Total | 612 | 69 | 681 | 199 | 655 | 854 | 86 | 159 | 245 | 1780 |
| | | | | | | | | | | |
| 05:00 PM | 211 | 20 | 231 | 39 | 191 | 230 | 26 | 47 | 73 | 534 |
| 05:15 PM | 148 | 22 | 170 | 59 | 201 | 260 | 26 | 48 | 74 | 504 |
| 05:30 PM | 165 | 26 | 191 | 44 | 208 | 252 | 29 | 53 | 82 | 525 |
| 05:45 PM | 144 | 21 | 165 | 55 | 247 | 302 | 33 | 44 | 77 | 544 |
| Total | 668 | 89 | 757 | 197 | 847 | 1044 | 114 | 192 | 306 | 2107 |
| | | | | | | | | | | |
| Grand Total | 1280 | 158 | 1438 | 396 | 1502 | 1898 | 200 | 351 | 551 | 3887 |
| Apprch % | 89 | 11 | | 20.9 | 79.1 | | 36.3 | 63.7 | | |
| Total % | 32.9 | 4.1 | 37 | 10.2 | 38.6 | 48.8 | 5.1 | 9 | 14.2 | |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | **211** | 20 | **231** | 39 | 191 | 230 | 26 | 47 | 73 | 534 |
| 05:15 PM | 148 | 22 | 170 | **59** | 201 | 260 | 26 | 48 | 74 | 504 |
| 05:30 PM | 165 | **26** | 191 | 44 | 208 | 252 | 29 | **53** | **82** | 525 |
| 05:45 PM | 144 | 21 | 165 | 55 | **247** | **302** | **33** | 44 | 77 | **544** |
| Total Volume | 668 | 89 | 757 | 197 | 847 | 1044 | 114 | 192 | 306 | 2107 |
| % App. Total | 88.2 | 11.8 | | 18.9 | 81.1 | | 37.3 | 62.7 | | |
| PHF | .791 | .856 | .819 | .835 | .857 | .864 | .864 | .906 | .933 | .968 |

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | **211** | 20 | **231** | 39 | 191 | 230 | 26 | 47 | 73 |
| +15 mins. | 148 | 22 | 170 | **59** | 201 | 260 | 26 | 48 | 74 |
| +30 mins. | 165 | **26** | 191 | 44 | 208 | 252 | 29 | **53** | **82** |
| +45 mins. | 144 | 21 | 165 | 55 | **247** | **302** | **33** | 44 | 77 |
| Total Volume | 668 | 89 | 757 | 197 | 847 | 1044 | 114 | 192 | 306 |
| % App. Total | 88.2 | 11.8 | | 18.9 | 81.1 | | 37.3 | 62.7 | |
| PHF | .791 | .856 | .819 | .835 | .857 | .864 | .864 | .906 | .933 |

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Corona, CA 92878
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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 04:00 PM | 2 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 3 |
| 04:15 PM | 1 | 0 | 1 | 0 | 2 | 2 | 0 | 0 | 0 | 3 |
| 04:30 PM | 1 | 0 | 1 | 0 | 2 | 2 | 0 | 0 | 0 | 3 |
| 04:45 PM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 5 | 0 | 5 | 0 | 5 | 5 | 0 | 0 | 0 | 10 |
| 05:00 PM | 2 | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 4 |
| 05:15 PM | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 2 |
| 05:30 PM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| 05:45 PM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| Total | 3 | 0 | 3 | 1 | 4 | 5 | 0 | 1 | 1 | 9 |
| Grand Total | 8 | 0 | 8 | 1 | 9 | 10 | 0 | 1 | 1 | 19 |
| Apprch % | 100 | 0 | | 10 | 90 | | 0 | 100 | | |
| Total % | 42.1 | 0 | 42.1 | 5.3 | 47.4 | 52.6 | 0 | 5.3 | 5.3 | |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | **2** | 0 | **2** | 0 | **2** | **2** | 0 | 0 | 0 | **4** |
| 05:15 PM | 0 | 0 | 0 | **1** | 1 | 2 | 0 | 0 | 0 | 2 |
| 05:30 PM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| 05:45 PM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| Total Volume | 3 | 0 | 3 | 1 | 4 | 5 | 0 | 1 | 1 | 9 |
| % App. Total | 100 | 0 | | 20 | 80 | | 0 | 100 | | |
| PHF | .375 | .000 | .375 | .250 | .500 | .625 | .000 | .250 | .250 | .563 |

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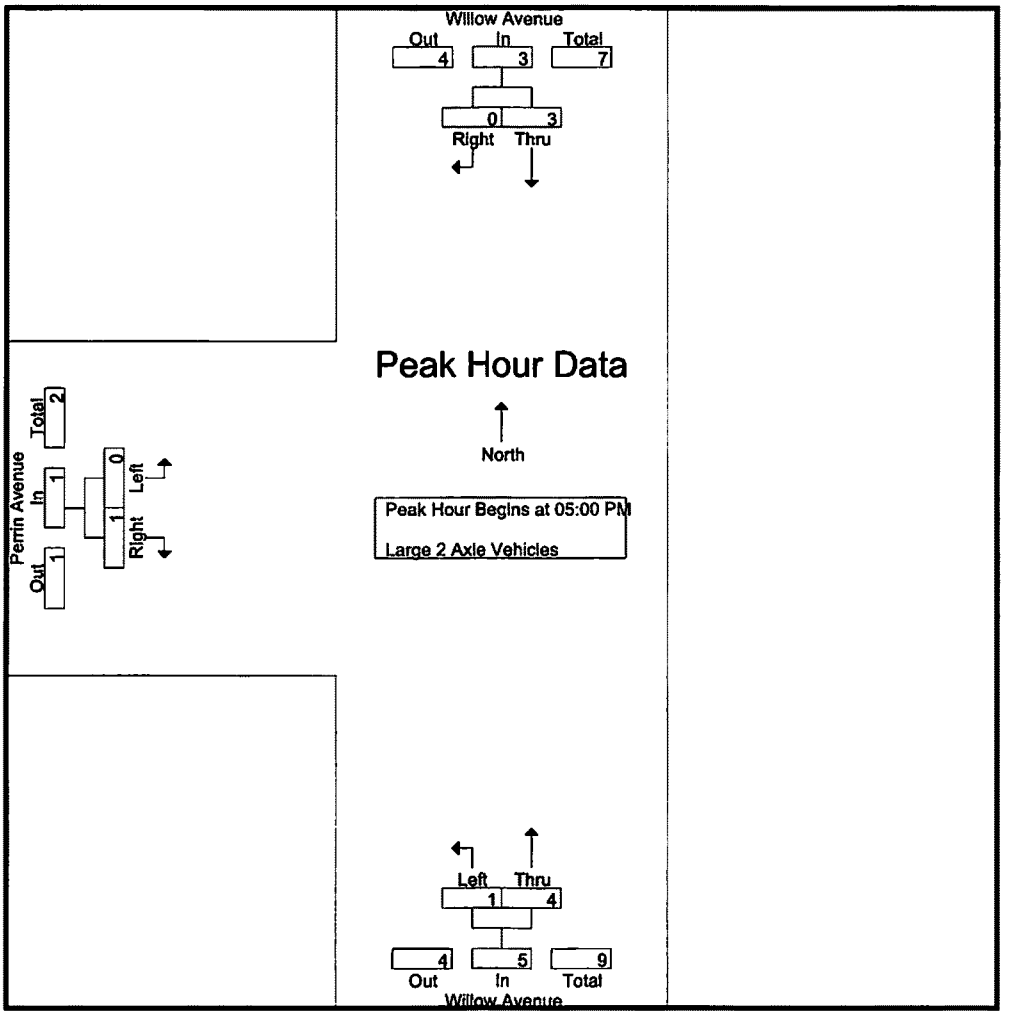
City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 2 | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 |
| +30 mins. | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| +45 mins. | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Total Volume | 3 | 0 | 3 | 1 | 4 | 5 | 0 | 1 | 1 |
| % App. Total | 100 | 0 | | 20 | 80 | | 0 | 100 | |
| PHF | .375 | .000 | .375 | .250 | .500 | .625 | .000 | .250 | .250 |

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| Grand Total | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| Apprch % | 0 | 0 | | 100 | 0 | | 0 | 0 | | |
| Total % | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| % App. Total | 0 | 0 | | 100 | 0 | | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .000 | .000 | .250 |

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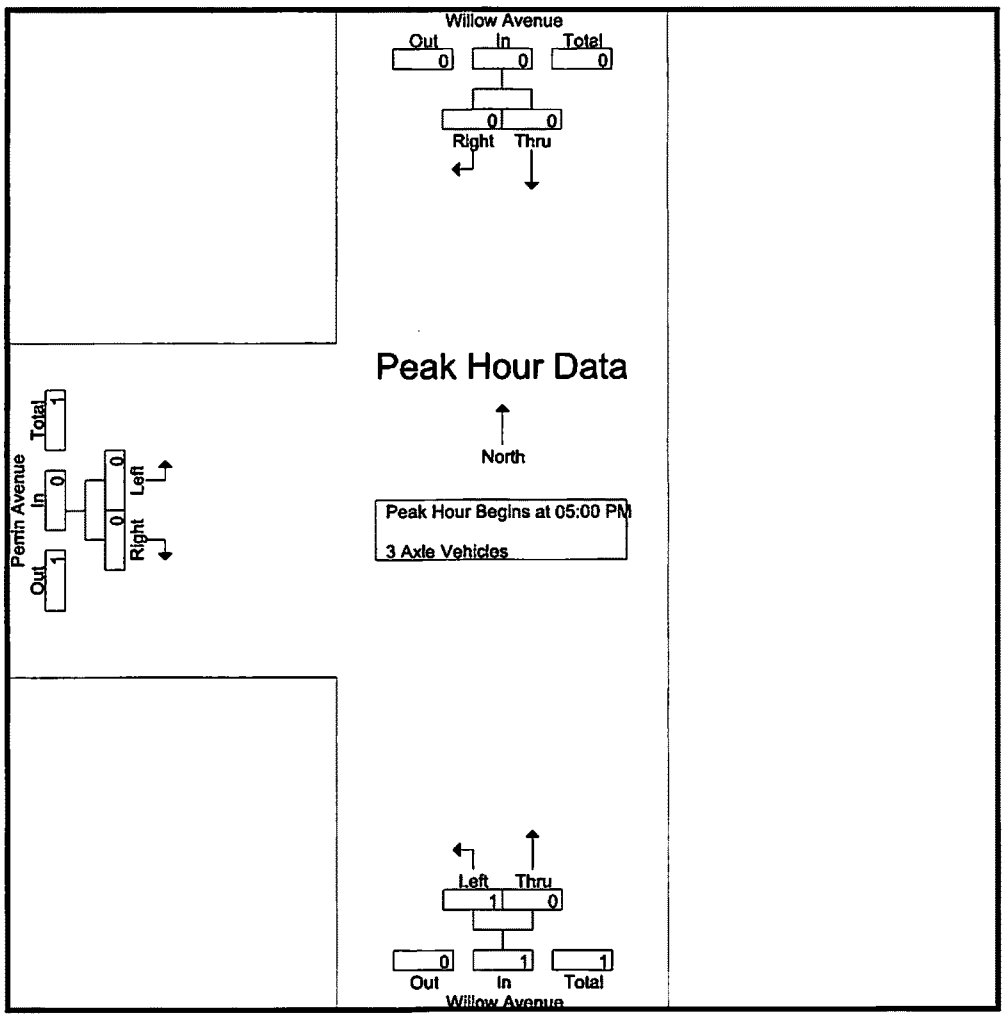
City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 100 | 0 | | 0 | 0 | |
| PHF | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .000 | .000 |

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| Total | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| 05:00 PM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 2 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 4 |
| Grand Total | 1 | 0 | 1 | 0 | 5 | 5 | 0 | 0 | 0 | 6 |
| Apprch % | 100 | 0 | | 0 | 100 | | 0 | 0 | | |
| Total % | 16.7 | 0 | 16.7 | 0 | 83.3 | 83.3 | 0 | 0 | 0 | |

| | Willow Avenue Southbound | | | Willow Avenue Northbound | | | Perrin Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 2 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 4 |
| % App. Total | 0 | 0 | | 0 | 100 | | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .500 | .500 | .000 | .000 | .000 | .500 |

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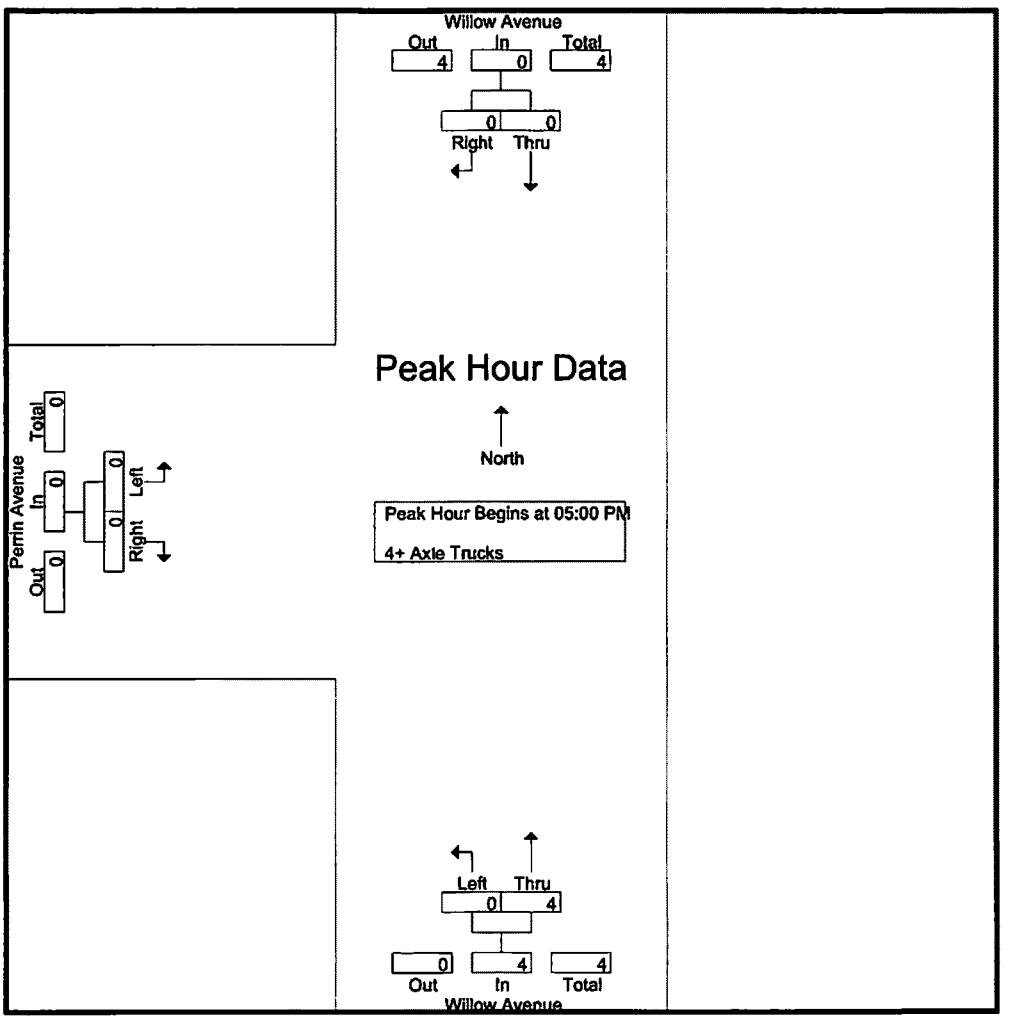
City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 0 | 100 | | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .500 | .500 | .000 | .000 | .000 |

Location: Clovis
N/S: Willow Avenue
E/W: Perrin Avenue

Date: 3/6/2024
Day: Wednesday

**PEDESTRIANS**

| | North Leg<br>Willow Avenue<br>Pedestrians | East Leg<br>Dead End<br>Pedestrians | South Leg<br>Willow Avenue<br>Pedestrians | West Leg<br>Perrin Avenue<br>Pedestrians | |
|---|---|---|---|---|---|
| 7:00 AM | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 2 | 2 |
| 8:00 AM | 0 | 0 | 0 | 1 | 1 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 1 | 1 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 4 | 4 |

| | North Leg<br>Willow Avenue<br>Pedestrians | East Leg<br>Dead End<br>Pedestrians | South Leg<br>Willow Avenue<br>Pedestrians | West Leg<br>Perrin Avenue<br>Pedestrians | |
|---|---|---|---|---|---|
| 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 2 | 2 |
| 5:15 PM | 0 | 0 | 0 | 2 | 2 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 4 | 4 |

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Location: Clovis
N/S: Willow Avenue
E/W: Perrin Avenue

Date: 3/6/2024
Day: Wednesday

**BICYCLES**

| | Southbound Willow Avenue | | | Westbound Dead End | | | Northbound Willow Avenue | | | Eastbound Perrin Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 7:30 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 4 |
| TOTAL VOLUMES: | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 1 | 0 | 0 | 16 |

| | Southbound Willow Avenue | | | Westbound Dead End | | | Northbound Willow Avenue | | | Eastbound Perrin Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 4:00 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:15 PM | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 5 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 4:45 PM | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 6 |
| 5:00 PM | 0 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 8 |
| 5:15 PM | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| TOTAL VOLUMES: | 0 | 12 | 0 | 0 | 0 | 0 | 3 | 8 | 0 | 0 | 0 | 2 | 25 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 07:00 AM | 1 | 0 | 1 | 34 | 0 | 34 | 0 | 39 | 39 | 74 |
| 07:15 AM | 0 | 0 | 0 | 58 | 0 | 58 | 0 | 32 | 32 | 90 |
| 07:30 AM | 0 | 0 | 0 | 118 | 1 | 119 | 0 | 42 | 42 | 161 |
| 07:45 AM | 0 | 0 | 0 | 104 | 0 | 104 | 0 | 69 | 69 | 173 |
| Total | 1 | 0 | 1 | 314 | 1 | 315 | 0 | 182 | 182 | 498 |
| 08:00 AM | 0 | 0 | 0 | 72 | 0 | 72 | 0 | 65 | 65 | 137 |
| 08:15 AM | 1 | 0 | 1 | 50 | 0 | 50 | 0 | 48 | 48 | 99 |
| 08:30 AM | 0 | 0 | 0 | 69 | 0 | 69 | 1 | 42 | 43 | 112 |
| 08:45 AM | 0 | 0 | 0 | 70 | 0 | 70 | 0 | 43 | 43 | 113 |
| Total | 1 | 0 | 1 | 261 | 0 | 261 | 1 | 198 | 199 | 461 |
| Grand Total | 2 | 0 | 2 | 575 | 1 | 576 | 1 | 380 | 381 | 959 |
| Apprch % | 100 | 0 | | 99.8 | 0.2 | | 0.3 | 99.7 | | |
| Total % | 0.2 | 0 | 0.2 | 60 | 0.1 | 60.1 | 0.1 | 39.6 | 39.7 | |
| Passenger Vehicles | 2 | 0 | 2 | 566 | 1 | 567 | 1 | 368 | 369 | 938 |
| % Passenger Vehicles | 100 | 0 | 100 | 98.4 | 100 | 98.4 | 100 | 96.8 | 96.9 | 97.8 |
| Large 2 Axle Vehicles | 0 | 0 | 0 | 6 | 0 | 6 | 0 | 8 | 8 | 14 |
| % Large 2 Axle Vehicles | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2.1 | 2.1 | 1.5 |
| 3 Axle Vehicles | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 |
| % 3 Axle Vehicles | 0 | 0 | 0 | 0.2 | 0 | 0.2 | 0 | 0.3 | 0.3 | 0.2 |
| 4+ Axle Trucks | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 3 | 3 | 5 |
| % 4+ Axle Trucks | 0 | 0 | 0 | 0.3 | 0 | 0.3 | 0 | 0.8 | 0.8 | 0.5 |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | **118** | **1** | **119** | 0 | 42 | 42 | 161 |
| 07:45 AM | 0 | 0 | 0 | 104 | 0 | 104 | 0 | **69** | **69** | **173** |
| 08:00 AM | 0 | 0 | 0 | 72 | 0 | 72 | 0 | 65 | 65 | 137 |
| 08:15 AM | **1** | 0 | **1** | 50 | 0 | 50 | 0 | 48 | 48 | 99 |
| Total Volume | 1 | 0 | 1 | 344 | 1 | 345 | 0 | 224 | 224 | 570 |
| % App. Total | 100 | 0 | | 99.7 | 0.3 | | 0 | 100 | | |
| PHF | .250 | .000 | .250 | .729 | .250 | .725 | .000 | .812 | .812 | .824 |

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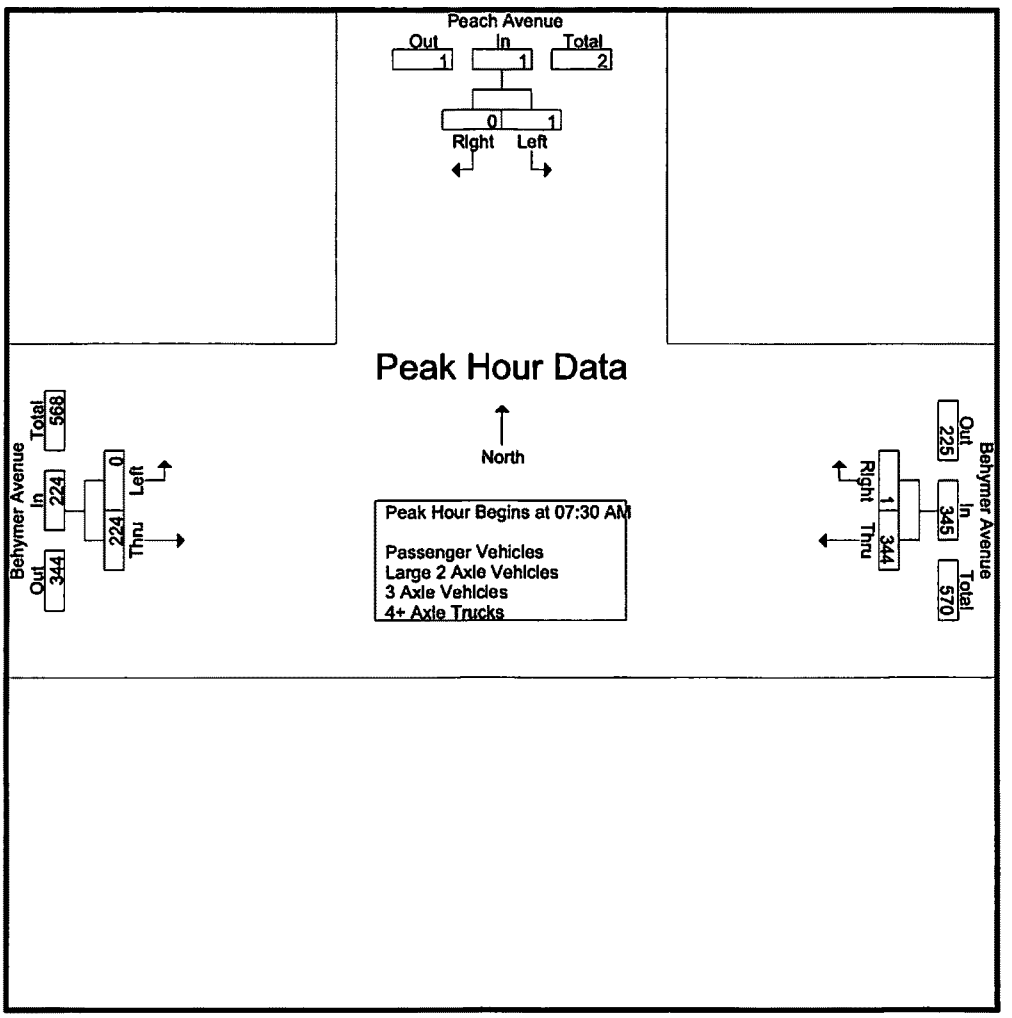
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 07:00 AM | | | 07:15 AM | | | 07:45 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 1 | 0 | 1 | 58 | 0 | 58 | 0 | **69** | **69** |
| +15 mins. | 0 | 0 | 0 | **118** | 1 | **119** | 0 | 65 | 65 |
| +30 mins. | 0 | 0 | 0 | 104 | 0 | 104 | 0 | 48 | 48 |
| +45 mins. | 0 | 0 | 0 | 72 | 0 | 72 | 1 | 42 | 43 |
| Total Volume | 1 | 0 | 1 | 352 | 1 | 353 | 1 | 224 | 225 |
| % App. Total | 100 | 0 | | 99.7 | 0.3 | | 0.4 | 99.6 | |
| PHF | .250 | .000 | .250 | .746 | .250 | .742 | .250 | .812 | .815 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 07:00 AM | 1 | 0 | 1 | 32 | 0 | 32 | 0 | 39 | 39 | 72 |
| 07:15 AM | 0 | 0 | 0 | 56 | 0 | 56 | 0 | 29 | 29 | 85 |
| 07:30 AM | 0 | 0 | 0 | 117 | 1 | 118 | 0 | 42 | 42 | 160 |
| 07:45 AM | 0 | 0 | 0 | 104 | 0 | 104 | 0 | 66 | 66 | 170 |
| Total | 1 | 0 | 1 | 309 | 1 | 310 | 0 | 176 | 176 | 487 |
| 08:00 AM | 0 | 0 | 0 | 68 | 0 | 68 | 0 | 63 | 63 | 131 |
| 08:15 AM | 1 | 0 | 1 | 50 | 0 | 50 | 0 | 46 | 46 | 97 |
| 08:30 AM | 0 | 0 | 0 | 69 | 0 | 69 | 1 | 41 | 42 | 111 |
| 08:45 AM | 0 | 0 | 0 | 70 | 0 | 70 | 0 | 42 | 42 | 112 |
| Total | 1 | 0 | 1 | 257 | 0 | 257 | 1 | 192 | 193 | 451 |
| Grand Total | 2 | 0 | 2 | 566 | 1 | 567 | 1 | 368 | 369 | 938 |
| Apprch % | 100 | 0 | | 99.8 | 0.2 | | 0.3 | 99.7 | | |
| Total % | 0.2 | 0 | 0.2 | 60.3 | 0.1 | 60.4 | 0.1 | 39.2 | 39.3 | |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | **117** | **1** | **118** | 0 | 42 | 42 | 160 |
| 07:45 AM | 0 | 0 | 0 | 104 | 0 | 104 | 0 | **66** | **66** | **170** |
| 08:00 AM | 0 | 0 | 0 | 68 | 0 | 68 | 0 | 63 | 63 | 131 |
| 08:15 AM | **1** | 0 | **1** | 50 | 0 | 50 | 0 | 46 | 46 | 97 |
| Total Volume | 1 | 0 | 1 | 339 | 1 | 340 | 0 | 217 | 217 | 558 |
| % App. Total | 100 | 0 | | 99.7 | 0.3 | | 0 | 100 | | |
| PHF | .250 | .000 | .250 | .724 | .250 | .720 | .000 | .822 | .822 | .821 |

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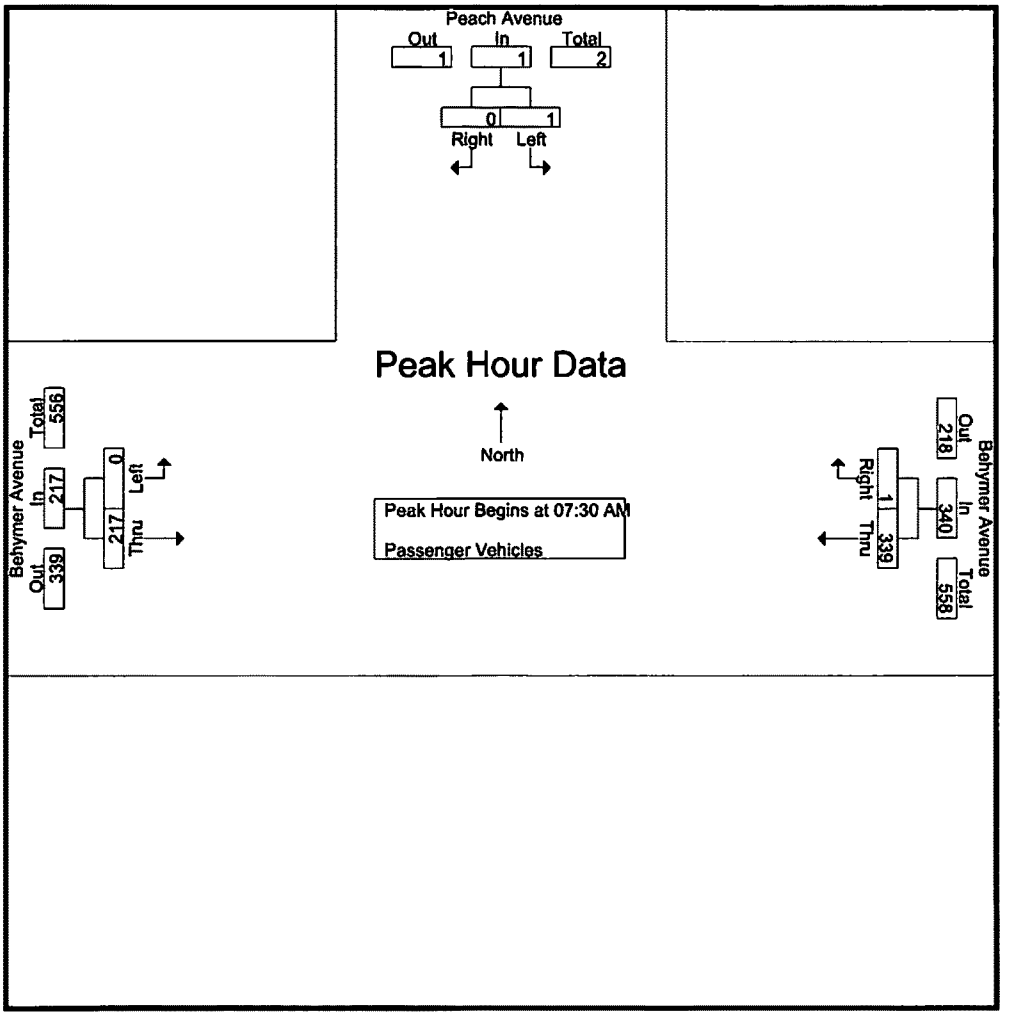
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | 07:30 AM | | | 07:30 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 117 | 1 | 118 | 0 | 42 | 42 |
| +15 mins. | 0 | 0 | 0 | 104 | 0 | 104 | 0 | **66** | **66** |
| +30 mins. | 0 | 0 | 0 | 68 | 0 | 68 | 0 | 63 | 63 |
| +45 mins. | 1 | 0 | 1 | 50 | 0 | 50 | 0 | 46 | 46 |
| Total Volume | 1 | 0 | 1 | 339 | 1 | 340 | 0 | 217 | 217 |
| % App. Total | 100 | 0 | | 99.7 | 0.3 | | 0 | 100 | |
| PHF | .250 | .000 | .250 | .724 | .250 | .720 | .000 | .822 | .822 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 07:15 AM | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 3 | 3 | 5 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| Total | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 4 | 4 | 7 |
| 08:00 AM | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 2 | 2 | 5 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 4 | 4 | 7 |
| Grand Total | 0 | 0 | 0 | 6 | 0 | 6 | 0 | 8 | 8 | 14 |
| Apprch % | 0 | 0 | | 100 | 0 | | 0 | 100 | | |
| Total % | 0 | 0 | 0 | 42.9 | 0 | 42.9 | 0 | 57.1 | 57.1 | |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 08:00 AM | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 2 | 2 | 5 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| Total Volume | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 5 | 5 | 8 |
| % App. Total | 0 | 0 | | 100 | 0 | | 0 | 100 | | |
| PHF | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .625 | .625 | .400 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
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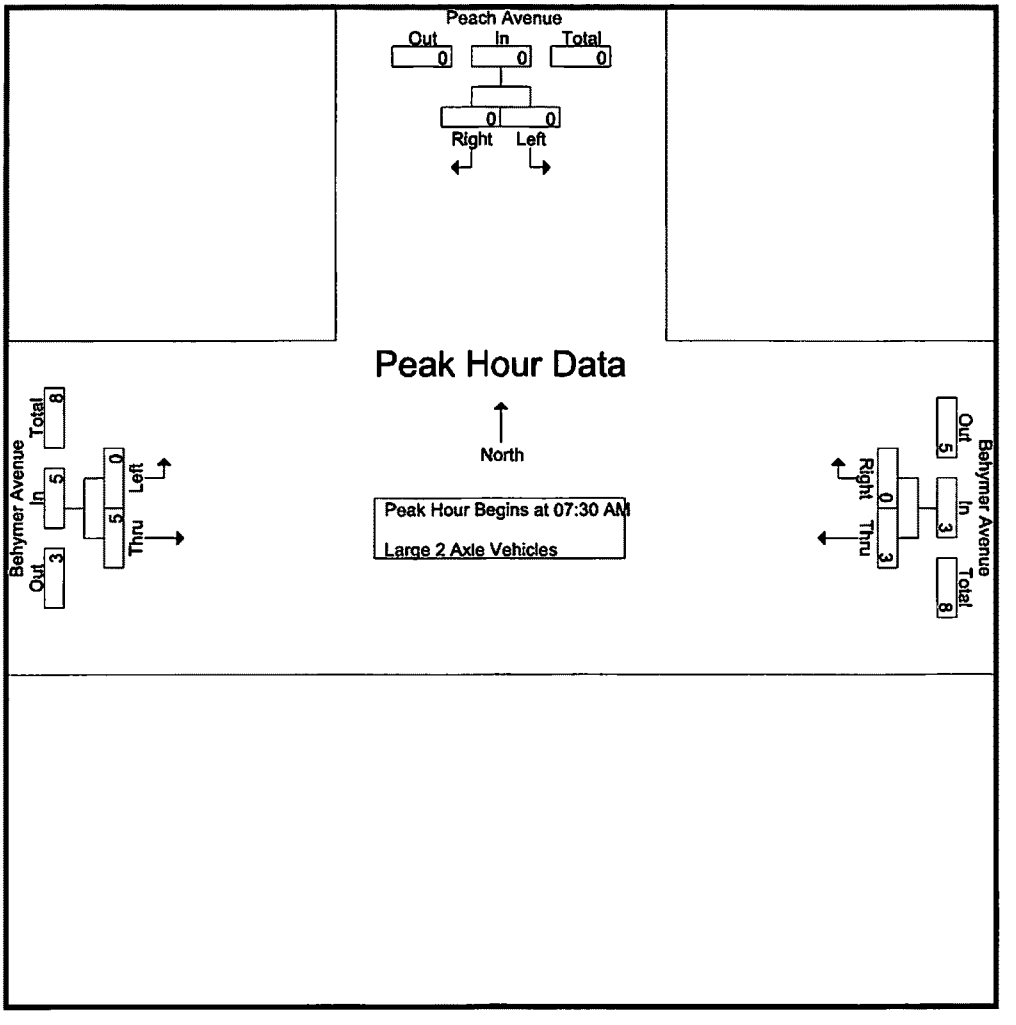


Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | 07:30 AM | | | 07:30 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| +30 mins. | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 2 | 2 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Total Volume | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 5 | 5 |
| % App. Total | 0 | 0 | | 100 | 0 | | 0 | 100 | |
| PHF | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .625 | .625 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 AM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| Grand Total | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 |
| Apprch % | 0 | 0 | | 100 | 0 | | 0 | 100 | | |
| Total % | 0 | 0 | 0 | 50 | 0 | 50 | 0 | 50 | 50 | |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| % App. Total | 0 | 0 | | 100 | 0 | | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .000 | .000 | .250 |

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City of Clovis
N/S: Peach Avenue
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Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
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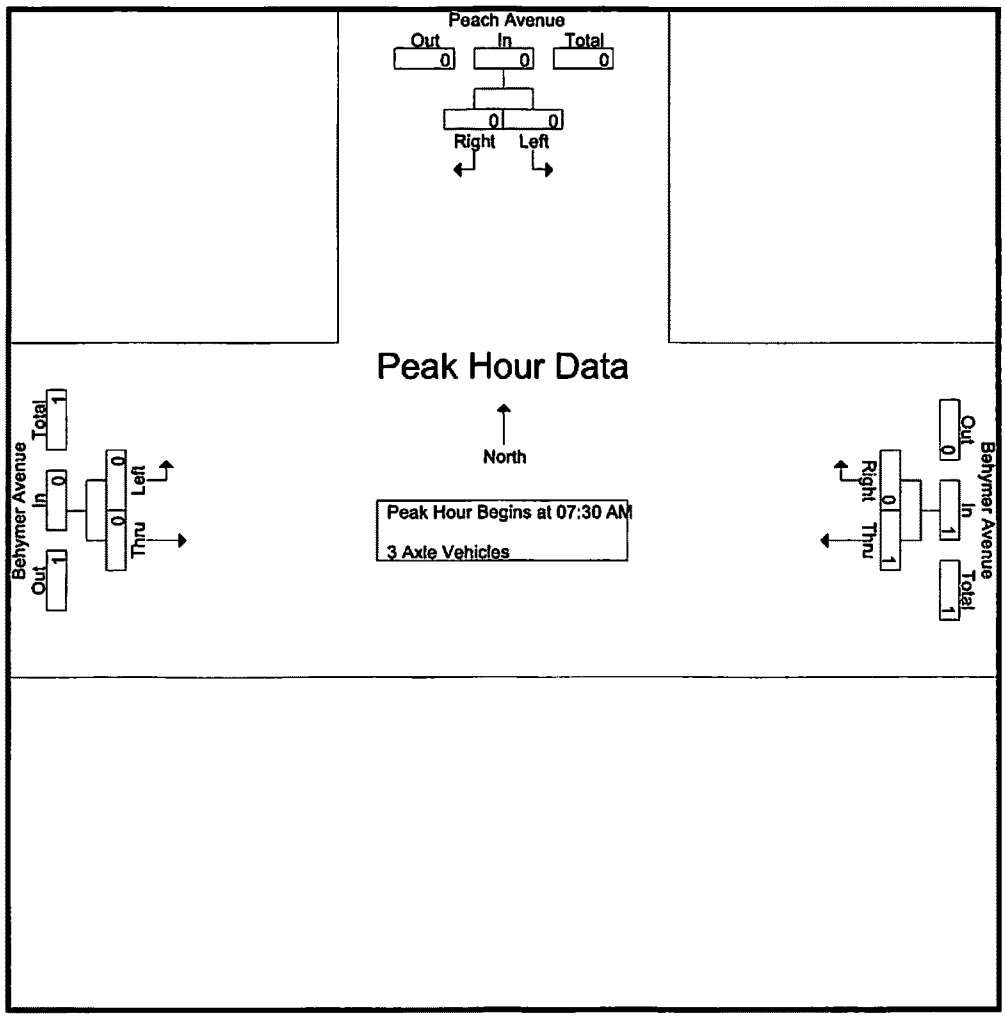


Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | 07:30 AM | | | 07:30 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 100 | 0 | | 0 | 0 | |
| PHF | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .000 | .000 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
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Groups Printed- 4+ Axle Trucks

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| Total | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 2 | 3 |
| 08:00 AM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 |
| Grand Total | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 3 | 3 | 5 |
| Apprch % | 0 | 0 | | 100 | 0 | | 0 | 100 | | |
| Total % | 0 | 0 | 0 | 40 | 0 | 40 | 0 | 60 | 60 | |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 08:00 AM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 2 | 3 |
| % App. Total | 0 | 0 | | 100 | 0 | | 0 | 100 | | |
| PHF | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .250 | .250 | .375 |

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y of Clovis
S: Peach Avenue
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File Name : 20_CVS_Peach_Beh AMC
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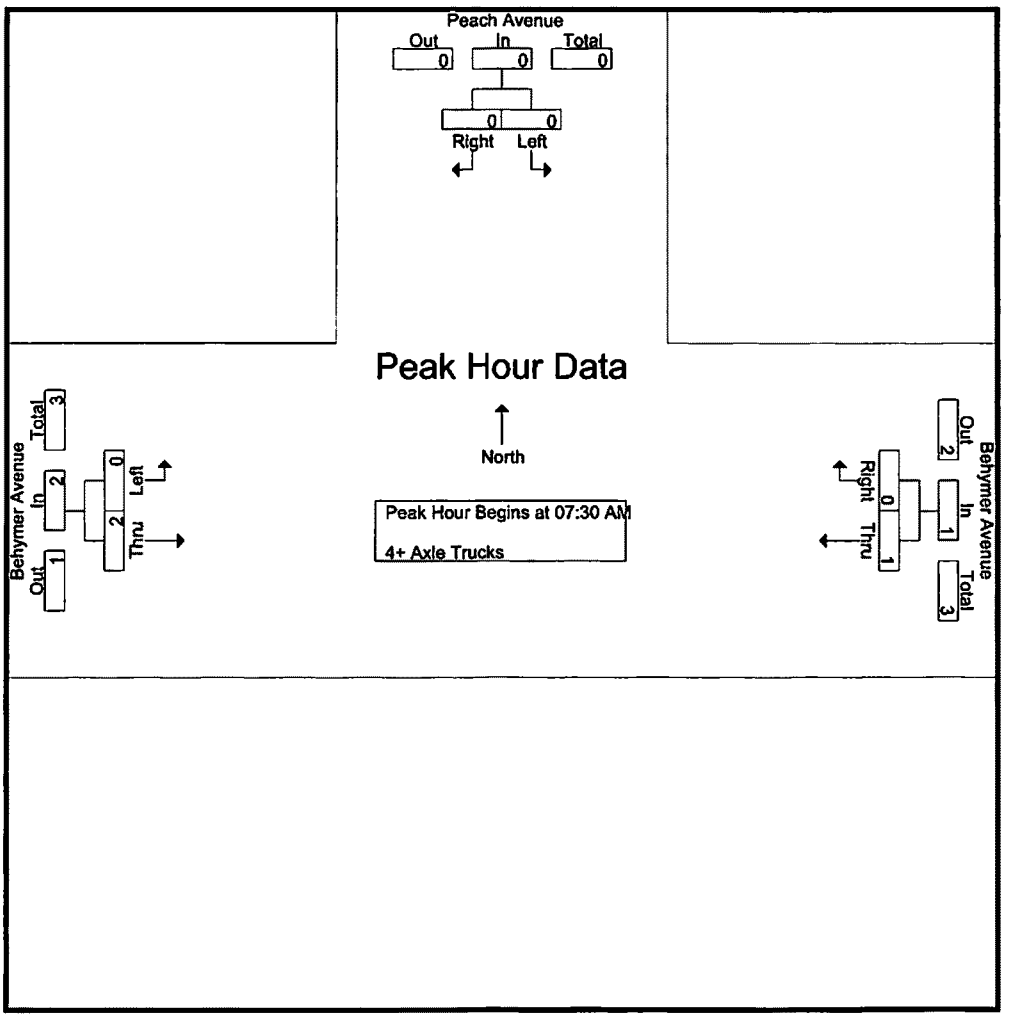


Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | 07:30 AM | | | 07:30 AM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| +30 mins. | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 2 |
| % App. Total | 0 | 0 | | 100 | 0 | | 0 | 100 | |
| PHF | .000 | .000 | .000 | .250 | .000 | .250 | .000 | .250 | .250 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 67 | 0 | 67 | 0 | 69 | 69 | 136 |
| 04:15 PM | 0 | 0 | 0 | 59 | 0 | 59 | 0 | 45 | 45 | 104 |
| 04:30 PM | 0 | 0 | 0 | 56 | 0 | 56 | 0 | 72 | 72 | 128 |
| 04:45 PM | 0 | 0 | 0 | 66 | 2 | 68 | 0 | 46 | 46 | 114 |
| Total | 0 | 0 | 0 | 248 | 2 | 250 | 0 | 232 | 232 | 482 |
| 05:00 PM | 0 | 0 | 0 | 59 | 0 | 59 | 0 | 82 | 82 | 141 |
| 05:15 PM | 0 | 1 | 1 | 74 | 0 | 74 | 1 | 61 | 62 | 137 |
| 05:30 PM | 0 | 0 | 0 | 72 | 0 | 72 | 0 | 50 | 50 | 122 |
| 05:45 PM | 0 | 0 | 0 | 88 | 0 | 88 | 0 | 48 | 48 | 136 |
| Total | 0 | 1 | 1 | 293 | 0 | 293 | 1 | 241 | 242 | 536 |
| Grand Total | 0 | 1 | 1 | 541 | 2 | 543 | 1 | 473 | 474 | 1018 |
| Apprch % | 0 | 100 | | 99.6 | 0.4 | | 0.2 | 99.8 | | |
| Total % | 0 | 0.1 | 0.1 | 53.1 | 0.2 | 53.3 | 0.1 | 46.5 | 46.6 | |
| Passenger Vehicles | 0 | 1 | 1 | 539 | 2 | 541 | 1 | 467 | 468 | 1010 |
| % Passenger Vehicles | 0 | 100 | 100 | 99.6 | 100 | 99.6 | 100 | 98.7 | 98.7 | 99.2 |
| Large 2 Axle Vehicles | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 6 | 6 | 8 |
| % Large 2 Axle Vehicles | 0 | 0 | 0 | 0.4 | 0 | 0.4 | 0 | 1.3 | 1.3 | 0.8 |
| 3 Axle Vehicles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % 3 Axle Vehicles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4+ Axle Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % 4+ Axle Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 59 | 0 | 59 | 0 | **82** | **82** | **141** |
| 05:15 PM | 0 | **1** | **1** | 74 | 0 | 74 | **1** | 61 | 62 | 137 |
| 05:30 PM | 0 | 0 | 0 | 72 | 0 | 72 | 0 | 50 | 50 | 122 |
| 05:45 PM | 0 | 0 | 0 | **88** | 0 | **88** | 0 | 48 | 48 | 136 |
| Total Volume | 0 | 1 | 1 | 293 | 0 | 293 | 1 | 241 | 242 | 536 |
| % App. Total | 0 | 100 | | 100 | 0 | | 0.4 | 99.6 | | |
| PHF | .000 | .250 | .250 | .832 | .000 | .832 | .250 | .735 | .738 | .950 |

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City of Clovis
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File Name : 20_CVS_Peach_Beh PMC
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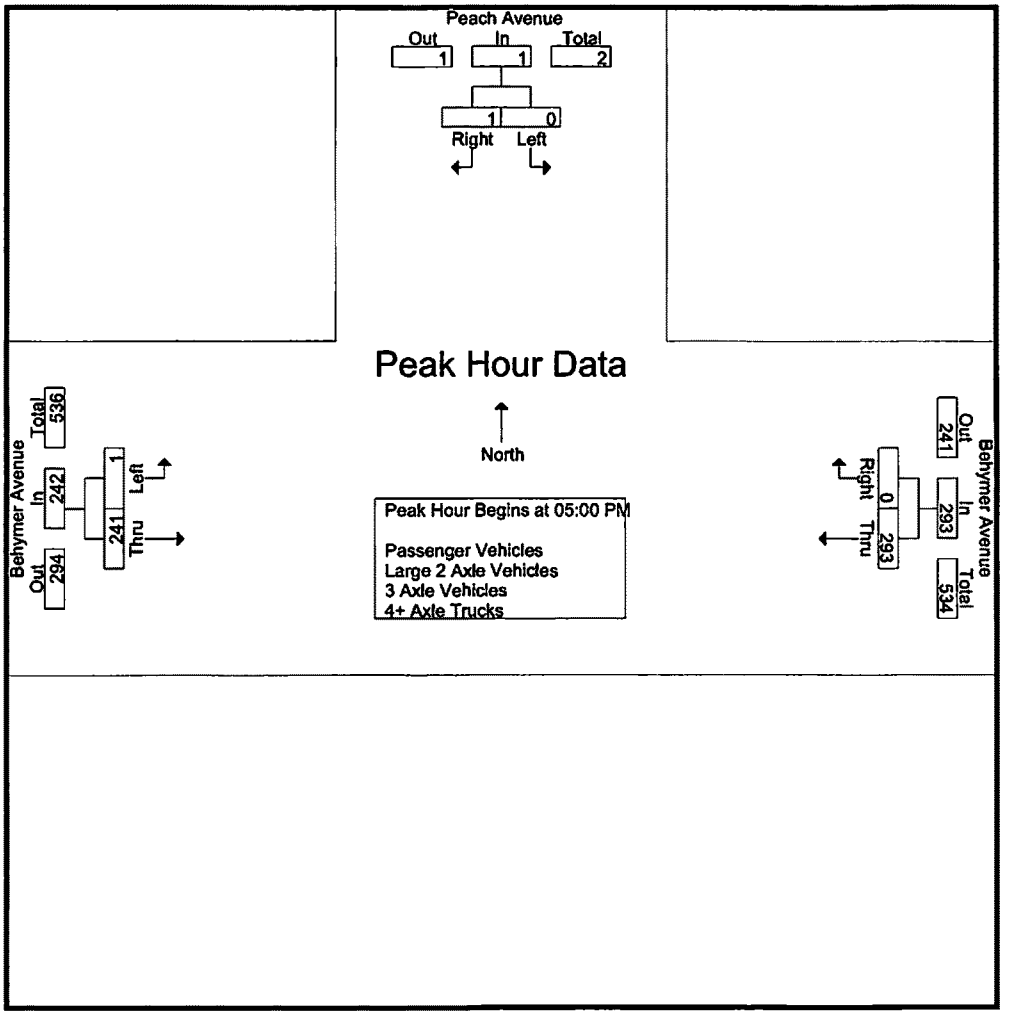


Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | 05:00 PM | | | 04:30 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 59 | 0 | 59 | 0 | 72 | 72 |
| +15 mins. | 0 | 0 | 0 | 74 | 0 | 74 | 0 | 46 | 46 |
| +30 mins. | 0 | 0 | 0 | 72 | 0 | 72 | 0 | **82** | **82** |
| +45 mins. | 0 | **1** | **1** | **88** | 0 | **88** | **1** | 61 | 62 |
| Total Volume | 0 | 1 | 1 | 293 | 0 | 293 | 1 | 261 | 262 |
| % App. Total | 0 | 100 | | 100 | 0 | | 0.4 | 99.6 | |
| PHF | .000 | .250 | .250 | .832 | .000 | .832 | .250 | .796 | .799 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
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Groups Printed- Passenger Vehicles

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 67 | 0 | 67 | 0 | 68 | 68 | 135 |
| 04:15 PM | 0 | 0 | 0 | 59 | 0 | 59 | 0 | 44 | 44 | 103 |
| 04:30 PM | 0 | 0 | 0 | 56 | 0 | 56 | 0 | 72 | 72 | 128 |
| 04:45 PM | 0 | 0 | 0 | 64 | 2 | 66 | 0 | 46 | 46 | 112 |
| Total | 0 | 0 | 0 | 246 | 2 | 248 | 0 | 230 | 230 | 478 |
| 05:00 PM | 0 | 0 | 0 | 59 | 0 | 59 | 0 | 79 | 79 | 138 |
| 05:15 PM | 0 | 1 | 1 | 74 | 0 | 74 | 1 | 61 | 62 | 137 |
| 05:30 PM | 0 | 0 | 0 | 72 | 0 | 72 | 0 | 50 | 50 | 122 |
| 05:45 PM | 0 | 0 | 0 | 88 | 0 | 88 | 0 | 47 | 47 | 135 |
| Total | 0 | 1 | 1 | 293 | 0 | 293 | 1 | 237 | 238 | 532 |
| Grand Total | 0 | 1 | 1 | 539 | 2 | 541 | 1 | 467 | 468 | 1010 |
| Apprch % | 0 | 100 | | 99.6 | 0.4 | | 0.2 | 99.8 | | |
| Total % | 0 | 0.1 | 0.1 | 53.4 | 0.2 | 53.6 | 0.1 | 46.2 | 46.3 | |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 59 | 0 | 59 | 0 | **79** | **79** | **138** |
| 05:15 PM | 0 | 1 | 1 | 74 | 0 | 74 | 1 | 61 | 62 | 137 |
| 05:30 PM | 0 | 0 | 0 | 72 | 0 | 72 | 0 | 50 | 50 | 122 |
| 05:45 PM | 0 | 0 | 0 | **88** | 0 | **88** | 0 | 47 | 47 | 135 |
| Total Volume | 0 | 1 | 1 | 293 | 0 | 293 | 1 | 237 | 238 | 532 |
| % App. Total | 0 | 100 | | 100 | 0 | | 0.4 | 99.6 | | |
| PHF | .000 | .250 | .250 | .832 | .000 | .832 | .250 | .750 | .753 | .964 |

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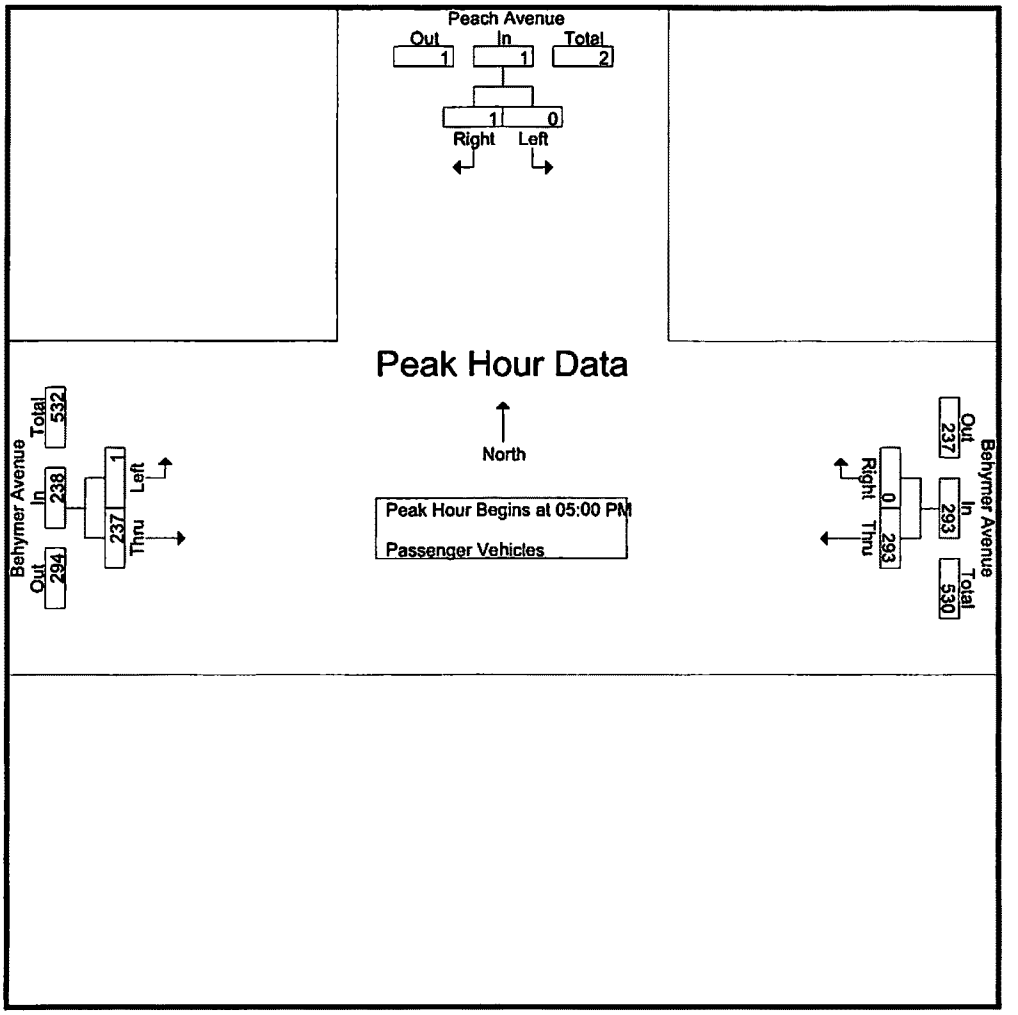
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 59 | 0 | 59 | 0 | 79 | 79 |
| +15 mins. | 0 | 1 | 1 | 74 | 0 | 74 | 1 | 61 | 62 |
| +30 mins. | 0 | 0 | 0 | 72 | 0 | 72 | 0 | 50 | 50 |
| +45 mins. | 0 | 0 | 0 | 88 | 0 | 88 | 0 | 47 | 47 |
| Total Volume | 0 | 1 | 1 | 293 | 0 | 293 | 1 | 237 | 238 |
| % App. Total | 0 | 100 | | 100 | 0 | | 0.4 | 99.6 | |
| PHF | .000 | .250 | .250 | .832 | .000 | .832 | .250 | .750 | .753 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 2 |
| Total | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 2 | 4 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 4 |
| Grand Total | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 6 | 6 | 8 |
| Apprch % | 0 | 0 | | 100 | 0 | | 0 | 100 | | |
| Total % | 0 | 0 | 0 | 25 | 0 | 25 | 0 | 75 | 75 | |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 4 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 100 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .333 | .333 | .333 |

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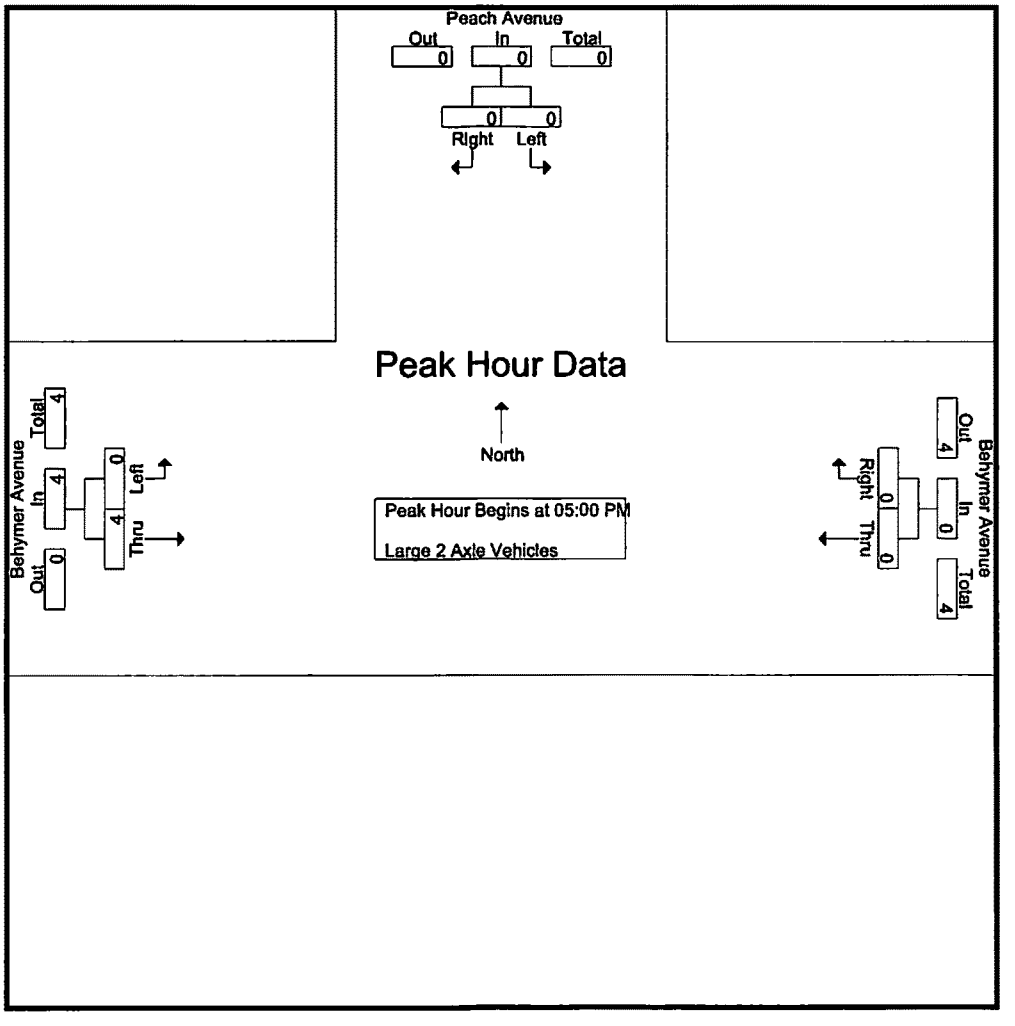
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 100 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .333 | .333 |

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City of Clovis .
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Apprch % | 0 | 0 | | 0 | 0 | | 0 | 0 | | |
| Total % | | | | | | | | | | |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

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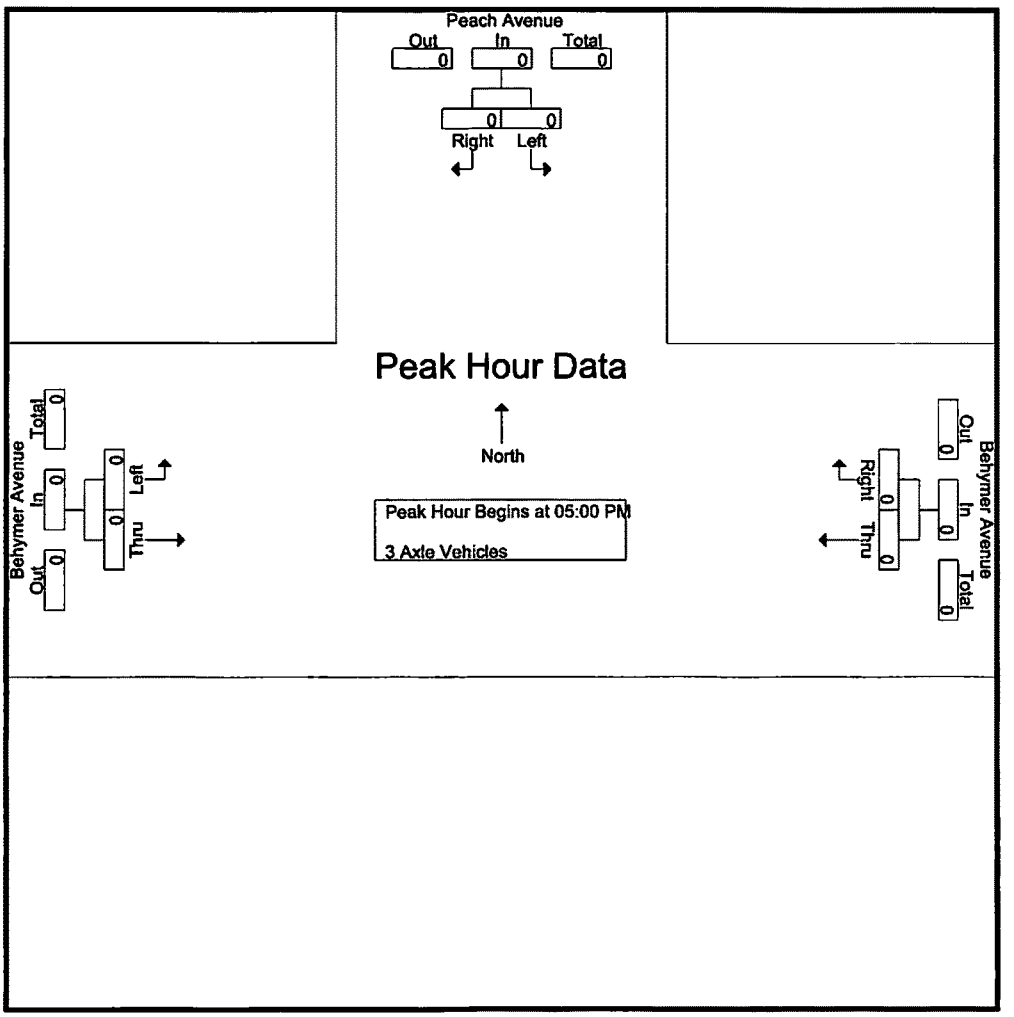
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Apprch % | 0 | 0 | | 0 | 0 | | 0 | 0 | | |
| Total % | | | | | | | | | | |

| | Peach Avenue Southbound | | | Behymer Avenue Westbound | | | Behymer Avenue Eastbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

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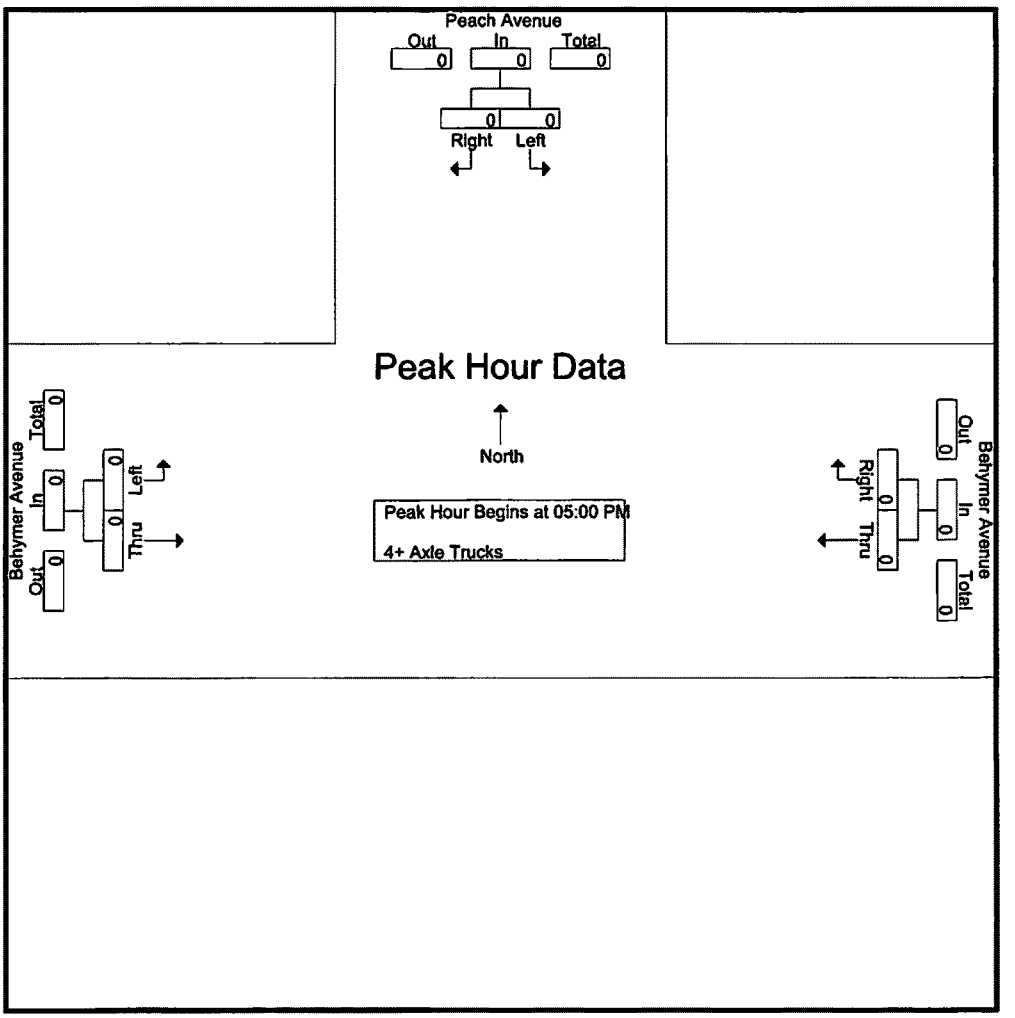
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | 05:00 PM | | | 05:00 PM | | |
|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

Location: Clovis
N/S: Peach Avenue
E/W: Behymer Avenue

Date: 3/6/2024
Day: Wednesday

**PEDESTRIANS**

| | North Leg<br>Peach Avenue<br>Pedestrians | East Leg<br>Behymer Avenue<br>Pedestrians | South Leg<br>Dead End<br>Pedestrians | West Leg<br>Behymer Avenue<br>Pedestrians | |
|---|---|---|---|---|---|
| 7:00 AM | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 |

| | North Leg<br>Peach Avenue<br>Pedestrians | East Leg<br>Behymer Avenue<br>Pedestrians | South Leg<br>Dead End<br>Pedestrians | West Leg<br>Behymer Avenue<br>Pedestrians | |
|---|---|---|---|---|---|
| 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 |

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Location: Clovis
N/S: Peach Avenue
E/W: Behymer Avenue

Date: 3/6/2024
Day: Wednesday

**BICYCLES**

| | Southbound Peach Avenue | | | Westbound Behymer Avenue | | | Northbound Dead End | | | Eastbound Behymer Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | Southbound Peach Avenue | | | Westbound Behymer Avenue | | | Northbound Dead End | | | Eastbound Behymer Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 27 | 30 | 0 | 57 | 7 | 34 | 31 | 72 | 5 | 38 | 2 | 45 | 1 | 21 | 8 | 30 | 204 |
| 07:15 AM | 29 | 34 | 2 | 65 | 4 | 49 | 47 | 100 | 8 | 42 | 7 | 57 | 2 | 28 | 12 | 42 | 264 |
| 07:30 AM | 51 | 55 | 1 | 107 | 7 | 68 | 48 | 123 | 29 | 36 | 6 | 71 | 2 | 40 | 13 | 55 | 356 |
| 07:45 AM | 27 | 61 | 4 | 92 | 14 | 56 | 57 | 127 | 22 | 48 | 2 | 72 | 1 | 35 | 37 | 73 | 364 |
| Total | 134 | 180 | 7 | 321 | 32 | 207 | 183 | 422 | 64 | 164 | 17 | 245 | 6 | 124 | 70 | 200 | 1188 |
| 08:00 AM | 27 | 60 | 0 | 87 | 9 | 32 | 76 | 117 | 9 | 62 | 8 | 79 | 0 | 44 | 15 | 59 | 342 |
| 08:15 AM | 34 | 45 | 1 | 80 | 11 | 39 | 84 | 134 | 13 | 72 | 5 | 90 | 1 | 30 | 15 | 46 | 350 |
| 08:30 AM | 63 | 48 | 0 | 111 | 4 | 32 | 35 | 71 | 8 | 62 | 6 | 76 | 1 | 37 | 9 | 47 | 305 |
| 08:45 AM | 31 | 35 | 0 | 66 | 3 | 46 | 32 | 81 | 6 | 31 | 6 | 43 | 0 | 28 | 12 | 40 | 230 |
| Total | 155 | 188 | 1 | 344 | 27 | 149 | 227 | 403 | 36 | 227 | 25 | 288 | 2 | 139 | 51 | 192 | 1227 |
| Grand Total | 289 | 368 | 8 | 665 | 59 | 356 | 410 | 825 | 100 | 391 | 42 | 533 | 8 | 263 | 121 | 392 | 2415 |
| Apprch % | 43.5 | 55.3 | 1.2 | | 7.2 | 43.2 | 49.7 | | 18.8 | 73.4 | 7.9 | | 2 | 67.1 | 30.9 | | |
| Total % | 12 | 15.2 | 0.3 | 27.5 | 2.4 | 14.7 | 17 | 34.2 | 4.1 | 16.2 | 1.7 | 22.1 | 0.3 | 10.9 | 5 | 16.2 | |
| Passenger Vehicles | 274 | 357 | 6 | 637 | 55 | 341 | 393 | 789 | 95 | 364 | 38 | 497 | 7 | 248 | 117 | 372 | 2295 |
| % Passenger Vehicles | 94.8 | 97 | 75 | 95.8 | 93.2 | 95.8 | 95.9 | 95.6 | 95 | 93.1 | 90.5 | 93.2 | 87.5 | 94.3 | 96.7 | 94.9 | 95 |
| Large 2 Axle Vehicles | 3 | 3 | 0 | 6 | 1 | 9 | 0 | 10 | 3 | 12 | 1 | 16 | 1 | 9 | 4 | 14 | 46 |
| % Large 2 Axle Vehicles | 1 | 0.8 | 0 | 0.9 | 1.7 | 2.5 | 0 | 1.2 | 3 | 3.1 | 2.4 | 3 | 12.5 | 3.4 | 3.3 | 3.6 | 1.9 |
| 3 Axle Vehicles | 7 | 4 | 1 | 12 | 0 | 2 | 6 | 8 | 1 | 6 | 1 | 8 | 0 | 5 | 0 | 5 | 33 |
| % 3 Axle Vehicles | 2.4 | 1.1 | 12.5 | 1.8 | 0 | 0.6 | 1.5 | 1 | 1 | 1.5 | 2.4 | 1.5 | 0 | 1.9 | 0 | 1.3 | 1.4 |
| 4+ Axle Trucks | 5 | 4 | 1 | 10 | 3 | 4 | 11 | 18 | 1 | 9 | 2 | 12 | 0 | 1 | 0 | 1 | 41 |
| % 4+ Axle Trucks | 1.7 | 1.1 | 12.5 | 1.5 | 5.1 | 1.1 | 2.7 | 2.2 | 1 | 2.3 | 4.8 | 2.3 | 0 | 0.4 | 0 | 0.3 | 1.7 |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | **51** | 55 | 1 | **107** | 7 | **68** | 48 | 123 | **29** | 36 | 6 | 71 | **2** | 40 | 13 | 55 | 356 |
| 07:45 AM | 27 | **61** | 4 | 92 | 14 | 56 | 57 | 127 | 22 | 48 | 2 | 72 | 1 | 35 | 37 | **73** | **364** |
| 08:00 AM | 27 | 60 | 0 | 87 | 9 | 32 | 76 | 117 | 9 | 62 | **8** | 79 | 0 | **44** | 15 | 59 | 342 |
| 08:15 AM | 34 | 45 | 1 | 80 | 11 | 39 | **84** | **134** | 13 | **72** | 5 | **90** | 1 | 30 | 15 | 46 | 350 |
| Total Volume | 139 | 221 | 6 | 366 | 41 | 195 | 265 | 501 | 73 | 218 | 21 | 312 | 4 | 149 | 80 | 233 | 1412 |
| % App. Total | 38 | 60.4 | 1.6 | | 8.2 | 38.9 | 52.9 | | 23.4 | 69.9 | 6.7 | | 1.7 | 63.9 | 34.3 | | |
| PHF | .681 | .906 | .375 | .855 | .732 | .717 | .789 | .935 | .629 | .757 | .656 | .867 | .500 | .847 | .541 | .798 | .970 |

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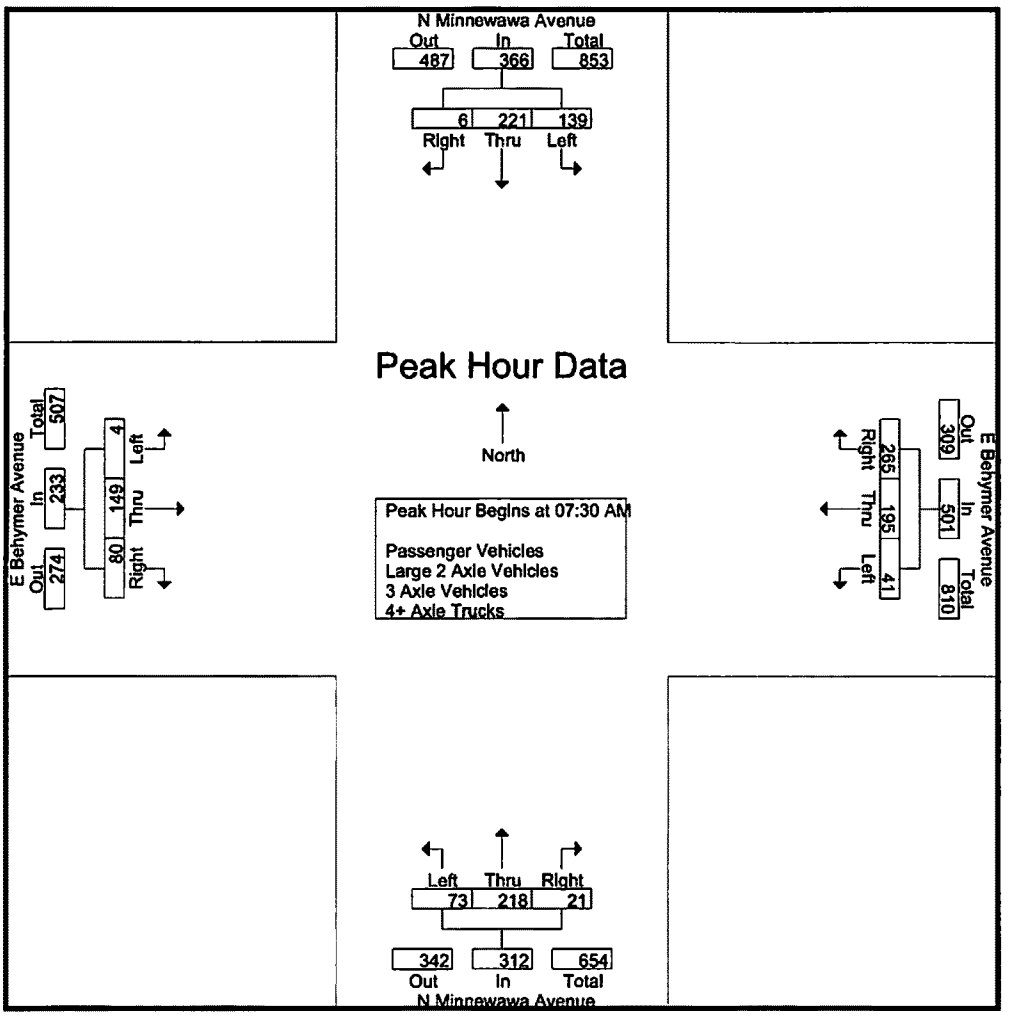
County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | | 07:30 AM | | | | 07:45 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 27 | **61** | 4 | 92 | 7 | **68** | 48 | 123 | **22** | 48 | 2 | 72 | **2** | 40 | 13 | 55 |
| +15 mins. | 27 | 60 | 0 | 87 | **14** | 56 | 57 | 127 | 9 | 62 | **8** | 79 | 1 | 35 | **37** | **73** |
| +30 mins. | 34 | 45 | 1 | 80 | 9 | 32 | 76 | 117 | 13 | **72** | 5 | **90** | 0 | **44** | 15 | 59 |
| +45 mins. | **63** | 48 | 0 | **111** | 11 | 39 | **84** | **134** | 8 | 62 | 6 | 76 | 1 | 30 | 15 | 46 |
| Total Volume | 151 | 214 | 5 | 370 | 41 | 195 | 265 | 501 | 52 | 244 | 21 | 317 | 4 | 149 | 80 | 233 |
| % App. Total | 40.8 | 57.8 | 1.4 | | 8.2 | 38.9 | 52.9 | | 16.4 | 77 | 6.6 | | 1.7 | 63.9 | 34.3 | |
| PHF | .599 | .877 | .313 | .833 | .732 | .717 | .789 | .935 | .591 | .847 | .656 | .881 | .500 | .847 | .541 | .798 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 27 | 29 | 0 | 56 | 5 | 32 | 27 | 64 | 5 | 34 | 2 | 41 | 1 | 20 | 8 | 29 | 190 |
| 07:15 AM | 28 | 33 | 2 | 63 | 4 | 49 | 45 | 98 | 8 | 40 | 7 | 55 | 1 | 25 | 12 | 38 | 254 |
| 07:30 AM | 50 | 54 | 0 | 104 | 7 | 66 | 48 | 121 | 29 | 32 | 5 | 66 | 2 | 39 | 13 | 54 | 345 |
| 07:45 AM | 27 | 61 | 3 | 91 | 14 | 49 | 55 | 118 | 19 | 45 | 2 | 66 | 1 | 32 | 36 | 69 | 344 |
| Total | 132 | 177 | 5 | 314 | 30 | 196 | 175 | 401 | 61 | 151 | 16 | 228 | 5 | 116 | 69 | 190 | 1133 |
| 08:00 AM | 26 | 58 | 0 | 84 | 8 | 29 | 73 | 110 | 9 | 58 | 7 | 74 | 0 | 42 | 15 | 57 | 325 |
| 08:15 AM | 32 | 43 | 1 | 76 | 11 | 39 | 82 | 132 | 12 | 67 | 4 | 83 | 1 | 29 | 12 | 42 | 333 |
| 08:30 AM | 58 | 46 | 0 | 104 | 3 | 32 | 34 | 69 | 8 | 60 | 6 | 74 | 1 | 36 | 9 | 46 | 293 |
| 08:45 AM | 26 | 33 | 0 | 59 | 3 | 45 | 29 | 77 | 5 | 28 | 5 | 38 | 0 | 25 | 12 | 37 | 211 |
| Total | 142 | 180 | 1 | 323 | 25 | 145 | 218 | 388 | 34 | 213 | 22 | 269 | 2 | 132 | 48 | 182 | 1162 |
| Grand Total | 274 | 357 | 6 | 637 | 55 | 341 | 393 | 789 | 95 | 364 | 38 | 497 | 7 | 248 | 117 | 372 | 2295 |
| Apprch % | 43 | 56 | 0.9 | | 7 | 43.2 | 49.8 | | 19.1 | 73.2 | 7.6 | | 1.9 | 66.7 | 31.5 | | |
| Total % | 11.9 | 15.6 | 0.3 | 27.8 | 2.4 | 14.9 | 17.1 | 34.4 | 4.1 | 15.9 | 1.7 | 21.7 | 0.3 | 10.8 | 5.1 | 16.2 | |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | **50** | 54 | 0 | **104** | 7 | **66** | 48 | 121 | **29** | 32 | 5 | 66 | **2** | 39 | 13 | 54 | **345** |
| 07:45 AM | 27 | **61** | **3** | 91 | **14** | 49 | 55 | 118 | 19 | 45 | 2 | 66 | 1 | 32 | **36** | **69** | 344 |
| 08:00 AM | 26 | 58 | 0 | 84 | 8 | 29 | 73 | 110 | 9 | 58 | **7** | 74 | 0 | **42** | 15 | 57 | 325 |
| 08:15 AM | 32 | 43 | 1 | 76 | 11 | 39 | **82** | **132** | 12 | **67** | 4 | **83** | 1 | 29 | 12 | 42 | 333 |
| Total Volume | 135 | 216 | 4 | 355 | 40 | 183 | 258 | 481 | 69 | 202 | 18 | 289 | 4 | 142 | 76 | 222 | 1347 |
| % App. Total | 38 | 60.8 | 1.1 | | 8.3 | 38 | 53.6 | | 23.9 | 69.9 | 6.2 | | 1.8 | 64 | 34.2 | | |
| PHF | .675 | .885 | .333 | .853 | .714 | .693 | .787 | .911 | .595 | .754 | .643 | .870 | .500 | .845 | .528 | .804 | .976 |

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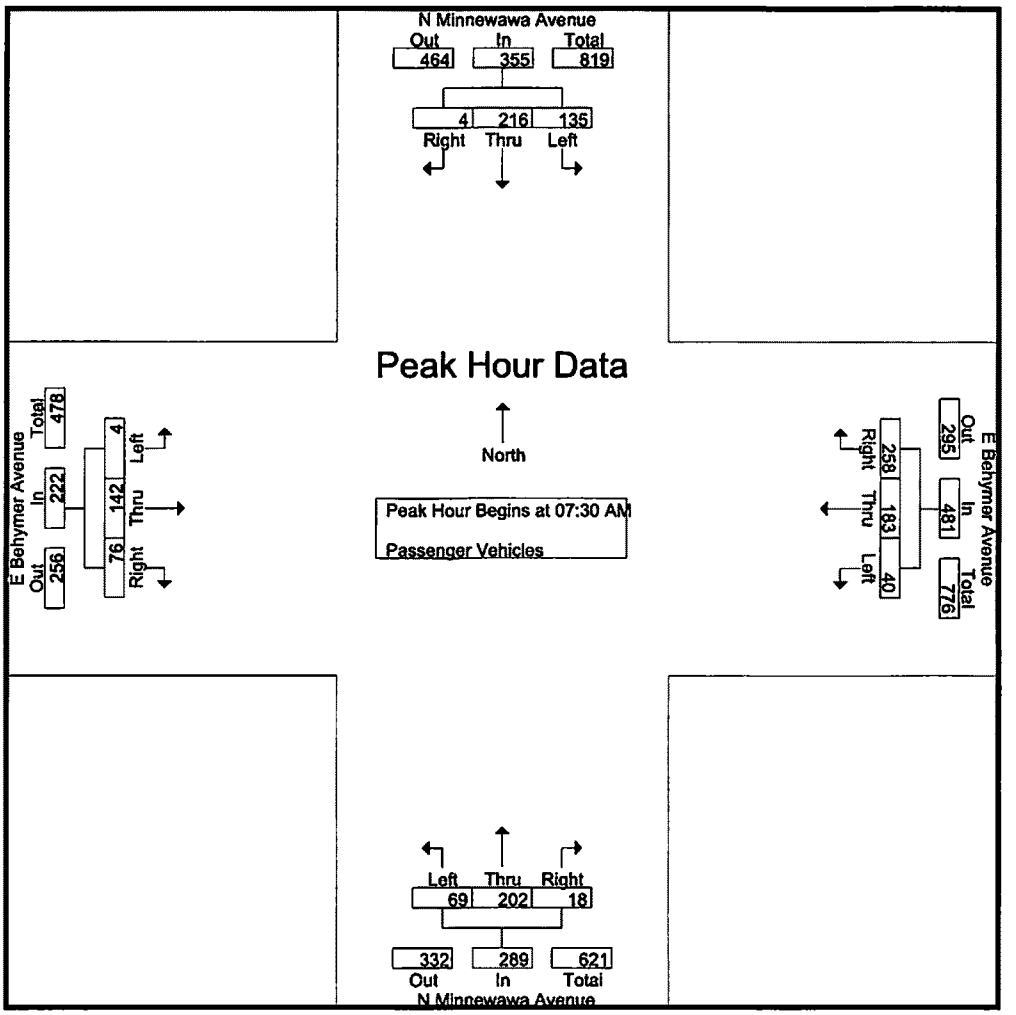
County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | **50** | 54 | 0 | **104** | 7 | **66** | 48 | 121 | **29** | 32 | 5 | 66 | **2** | 39 | 13 | 54 |
| +15 mins. | 27 | **61** | **3** | 91 | **14** | 49 | 55 | 118 | 19 | 45 | 2 | 66 | 1 | 32 | **36** | **69** |
| +30 mins. | 26 | 58 | 0 | 84 | 8 | 29 | 73 | 110 | 9 | 58 | **7** | 74 | 0 | **42** | 15 | 57 |
| +45 mins. | 32 | 43 | 1 | 76 | 11 | 39 | **82** | **132** | 12 | **67** | 4 | **83** | 1 | 29 | 12 | 42 |
| Total Volume | 135 | 216 | 4 | 355 | 40 | 183 | 258 | 481 | 69 | 202 | 18 | 289 | 4 | 142 | 76 | 222 |
| % App. Total | 38 | 60.8 | 1.1 | | 8.3 | 38 | 53.6 | | 23.9 | 69.9 | 6.2 | | 1.8 | 64 | 34.2 | |
| PHF | .675 | .885 | .333 | .853 | .714 | .693 | .787 | .911 | .595 | .754 | .643 | .870 | .500 | .845 | .528 | .804 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 4 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 1 | 2 | 0 | 3 | 5 |
| 07:30 AM | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 6 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 2 | 2 | 0 | 4 | 0 | 2 | 1 | 3 | 12 |
| Total | 0 | 1 | 0 | 1 | 0 | 8 | 0 | 8 | 2 | 8 | 0 | 10 | 1 | 6 | 1 | 8 | 27 |
| 08:00 AM | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 5 |
| 08:15 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 3 | 4 | 6 |
| 08:30 AM | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 08:45 AM | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 1 | 5 |
| Total | 3 | 2 | 0 | 5 | 1 | 1 | 0 | 2 | 1 | 4 | 1 | 6 | 0 | 3 | 3 | 6 | 19 |
| Grand Total | 3 | 3 | 0 | 6 | 1 | 9 | 0 | 10 | 3 | 12 | 1 | 16 | 1 | 9 | 4 | 14 | 46 |
| Apprch % | 50 | 50 | 0 | | 10 | 90 | 0 | | 18.8 | 75 | 6.2 | | 7.1 | 64.3 | 28.6 | | |
| Total % | 6.5 | 6.5 | 0 | 13 | 2.2 | 19.6 | 0 | 21.7 | 6.5 | 26.1 | 2.2 | 34.8 | 2.2 | 19.6 | 8.7 | 30.4 | |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | **2** | 0 | 2 | 0 | 1 | 0 | 1 | 6 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | **5** | 0 | **5** | **2** | 2 | 0 | 4 | 0 | **2** | 1 | 3 | **12** |
| 08:00 AM | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 5 |
| 08:15 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | **3** | 4 | 6 |
| Total Volume | 0 | 3 | 0 | 3 | 0 | 8 | 0 | 8 | 2 | 7 | 0 | 9 | 0 | 5 | 4 | 9 | 29 |
| % App. Total | 0 | 100 | 0 | | 0 | 100 | 0 | | 22.2 | 77.8 | 0 | | 0 | 55.6 | 44.4 | | |
| PHF | .000 | .750 | .000 | .750 | .000 | .400 | .000 | .400 | .250 | .875 | .000 | .563 | .000 | .625 | .333 | .563 | .604 |

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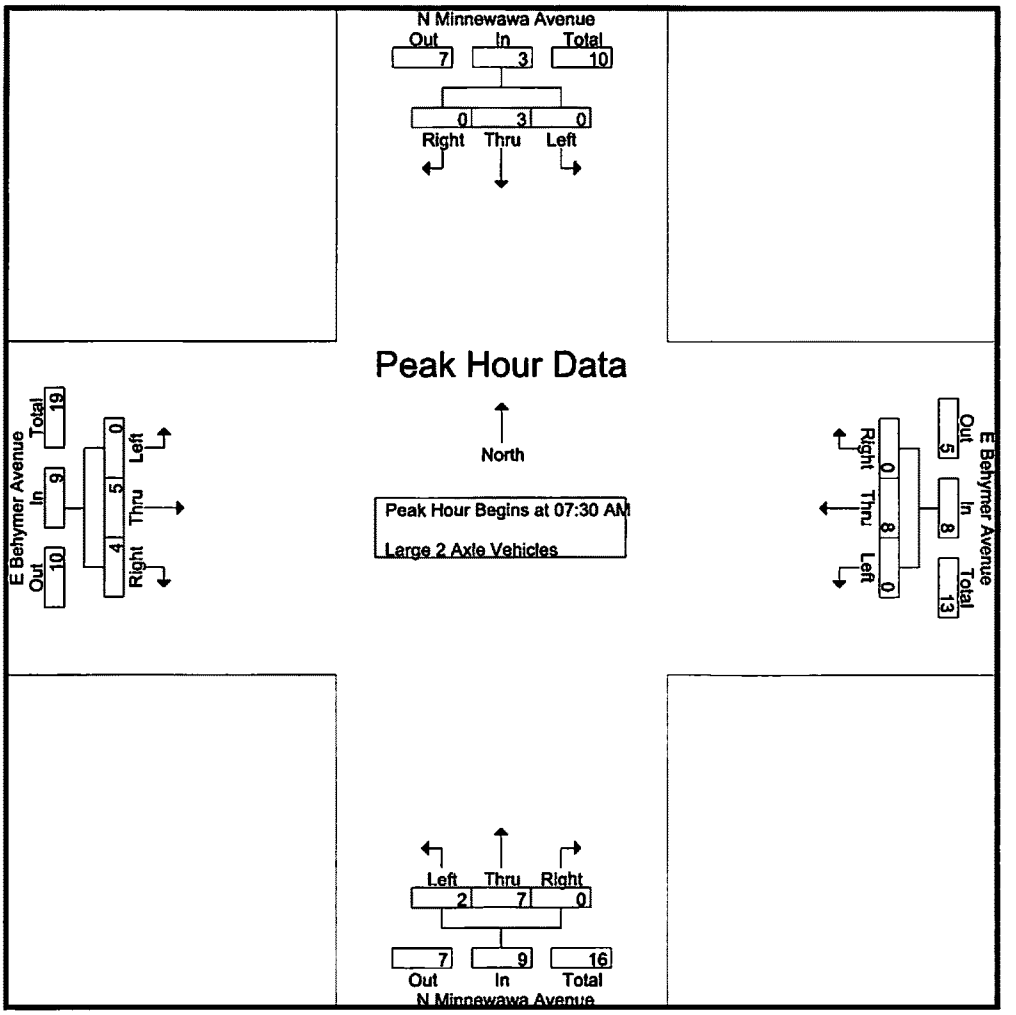
County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 2 | 2 | 0 | 4 | 0 | 2 | 1 | 3 |
| +30 mins. | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 |
| +45 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 3 | 4 |
| Total Volume | 0 | 3 | 0 | 3 | 0 | 8 | 0 | 8 | 2 | 7 | 0 | 9 | 0 | 5 | 4 | 9 |
| % App. Total | 0 | 100 | 0 | | 0 | 100 | 0 | | 22.2 | 77.8 | 0 | | 0 | 55.6 | 44.4 | |
| PHF | .000 | .750 | .000 | .750 | .000 | .400 | .000 | .400 | .250 | .875 | .000 | .563 | .000 | .625 | .333 | .563 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 07:15 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| 07:30 AM | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 3 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 5 |
| Total | 0 | 1 | 1 | 2 | 0 | 2 | 3 | 5 | 1 | 2 | 1 | 4 | 0 | 2 | 0 | 2 | 13 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 3 |
| 08:15 AM | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 5 |
| 08:30 AM | 4 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 08:45 AM | 2 | 1 | 0 | 3 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 7 |
| Total | 7 | 3 | 0 | 10 | 0 | 0 | 3 | 3 | 0 | 4 | 0 | 4 | 0 | 3 | 0 | 3 | 20 |
| Grand Total | 7 | 4 | 1 | 12 | 0 | 2 | 6 | 8 | 1 | 6 | 1 | 8 | 0 | 5 | 0 | 5 | 33 |
| Apprch % | 58.3 | 33.3 | 8.3 | | 0 | 25 | 75 | | 12.5 | 75 | 12.5 | | 0 | 100 | 0 | | |
| Total % | 21.2 | 12.1 | 3 | 36.4 | 0 | 6.1 | 18.2 | 24.2 | 3 | 18.2 | 3 | 24.2 | 0 | 15.2 | 0 | 15.2 | |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 3 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 5 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 3 |
| 08:15 AM | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 5 |
| Total Volume | 1 | 1 | 1 | 3 | 0 | 2 | 3 | 5 | 1 | 4 | 1 | 6 | 0 | 2 | 0 | 2 | 16 |
| % App. Total | 33.3 | 33.3 | 33.3 | | 0 | 40 | 60 | | 16.7 | 66.7 | 16.7 | | 0 | 100 | 0 | | |
| PHF | .250 | .250 | .250 | .375 | .000 | .250 | .750 | .417 | .250 | .500 | .250 | .750 | .000 | .500 | .000 | .500 | .800 |

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County of Fresno
N/S: N Minnewawa Avenue
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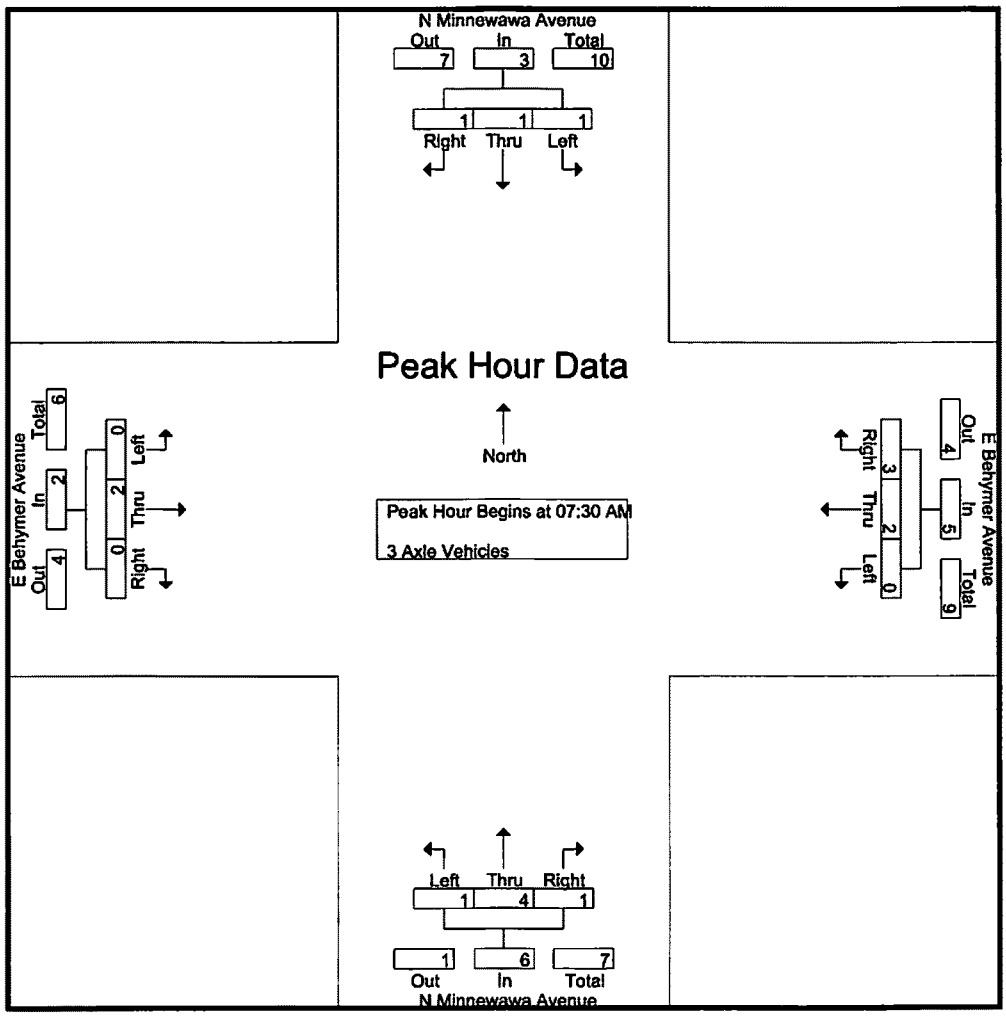
File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| +45 mins. | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| Total Volume | 1 | 1 | 1 | 3 | 0 | 2 | 3 | 5 | 1 | 4 | 1 | 6 | 0 | 2 | 0 | 2 |
| % App. Total | 33.3 | 33.3 | 33.3 | | 0 | 40 | 60 | | 16.7 | 66.7 | 16.7 | | 0 | 100 | 0 | |
| PHF | .250 | .250 | .250 | .375 | .000 | .250 | .750 | .417 | .250 | .500 | .250 | .750 | .000 | .500 | .000 | .500 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 1 | 0 | 1 | 2 | 1 | 2 | 5 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 7 |
| 07:15 AM | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 07:30 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 07:45 AM | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| Total | 2 | 1 | 1 | 4 | 2 | 1 | 5 | 8 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 15 |
| 08:00 AM | 1 | 1 | 0 | 2 | 1 | 2 | 2 | 5 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 9 |
| 08:15 AM | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 4 | 0 | 0 | 0 | 0 | 6 |
| 08:30 AM | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 4 |
| 08:45 AM | 1 | 1 | 0 | 2 | 0 | 1 | 2 | 3 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 7 |
| Total | 3 | 3 | 0 | 6 | 1 | 3 | 6 | 10 | 1 | 6 | 2 | 9 | 0 | 1 | 0 | 1 | 26 |
| Grand Total | 5 | 4 | 1 | 10 | 3 | 4 | 11 | 18 | 1 | 9 | 2 | 12 | 0 | 1 | 0 | 1 | 41 |
| Apprch % | 50 | 40 | 10 | | 16.7 | 22.2 | 61.1 | | 8.3 | 75 | 16.7 | | 0 | 100 | 0 | | |
| Total % | 12.2 | 9.8 | 2.4 | 24.4 | 7.3 | 9.8 | 26.8 | 43.9 | 2.4 | 22 | 4.9 | 29.3 | 0 | 2.4 | 0 | 2.4 | |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 07:45 AM | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 08:00 AM | 1 | 1 | 0 | 2 | 1 | 2 | 2 | 5 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 9 |
| 08:15 AM | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 4 | 0 | 0 | 0 | 0 | 6 |
| Total Volume | 3 | 1 | 1 | 5 | 1 | 2 | 4 | 7 | 1 | 5 | 2 | 8 | 0 | 0 | 0 | 0 | 20 |
| % App. Total | 60 | 20 | 20 | | 14.3 | 28.6 | 57.1 | | 12.5 | 62.5 | 25 | | 0 | 0 | 0 | | |
| PHF | .750 | .250 | .250 | .625 | .250 | .250 | .500 | .350 | .250 | .625 | .500 | .500 | .000 | .000 | .000 | .000 | .556 |

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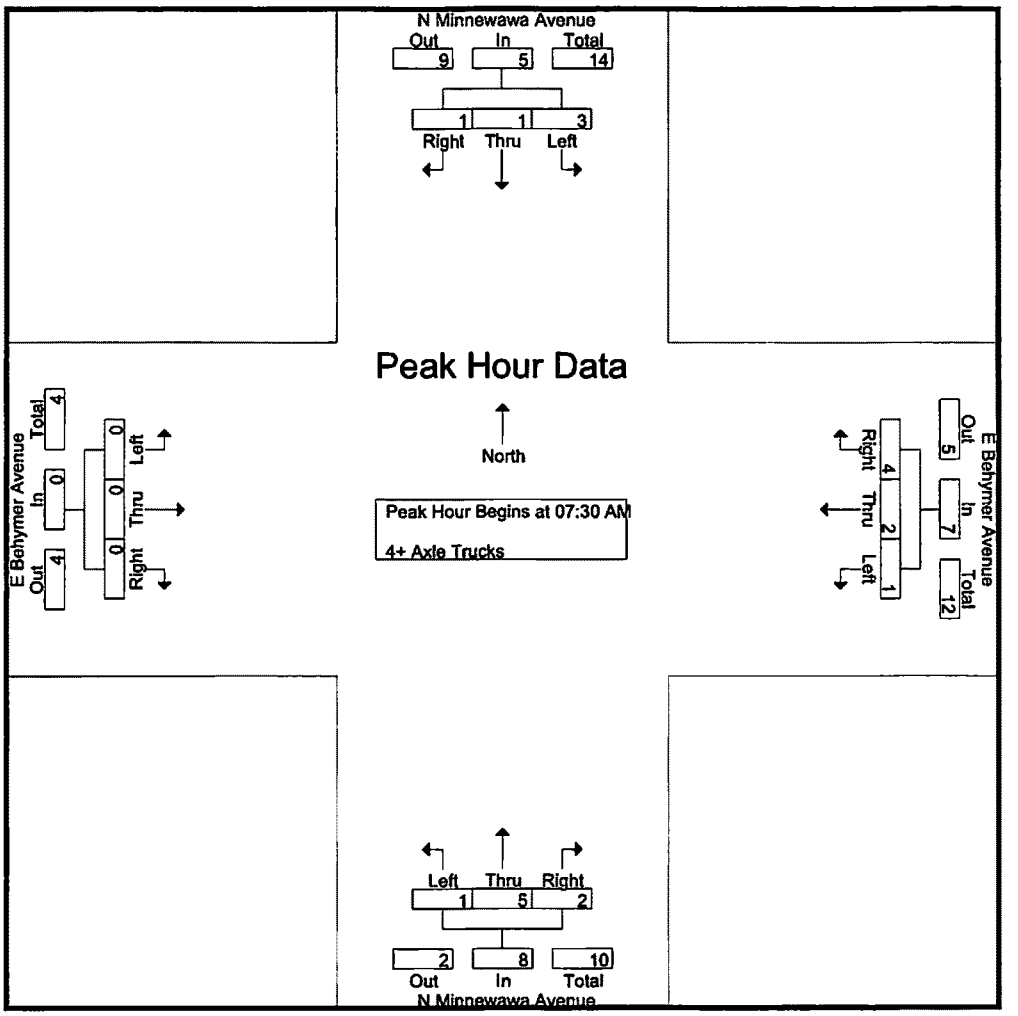
County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| +30 mins. | 1 | 1 | 0 | 2 | 1 | 2 | 2 | 5 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 |
| +45 mins. | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 4 | 0 | 0 | 0 | 0 |
| Total Volume | 3 | 1 | 1 | 5 | 1 | 2 | 4 | 7 | 1 | 5 | 2 | 8 | 0 | 0 | 0 | 0 |
| % App. Total | 60 | 20 | 20 | | 14.3 | 28.6 | 57.1 | | 12.5 | 62.5 | 25 | | 0 | 0 | 0 | |
| PHF | .750 | .250 | .250 | .625 | .250 | .250 | .500 | .350 | .250 | .625 | .500 | .500 | .000 | .000 | .000 | .000 |

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County of Fresno
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Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 44 | 50 | 0 | 94 | 6 | 22 | 35 | 63 | 17 | 54 | 12 | 83 | 1 | 35 | 8 | 44 | 284 |
| 04:15 PM | 29 | 50 | 1 | 80 | 4 | 34 | 38 | 76 | 14 | 54 | 4 | 72 | 0 | 33 | 5 | 38 | 266 |
| 04:30 PM | 36 | 52 | 0 | 88 | 9 | 40 | 40 | 89 | 8 | 50 | 8 | 66 | 2 | 30 | 10 | 42 | 285 |
| 04:45 PM | 30 | 49 | 1 | 80 | 6 | 39 | 36 | 81 | 12 | 56 | 6 | 74 | 1 | 31 | 8 | 40 | 275 |
| Total | 139 | 201 | 2 | 342 | 25 | 135 | 149 | 309 | 51 | 214 | 30 | 295 | 4 | 129 | 31 | 164 | 1110 |
| 05:00 PM | 40 | 48 | 0 | 88 | 11 | 44 | 29 | 84 | 15 | 44 | 8 | 67 | 2 | 44 | 14 | 60 | 299 |
| 05:15 PM | 48 | 42 | 1 | 91 | 11 | 61 | 47 | 119 | 9 | 66 | 8 | 83 | 0 | 38 | 9 | 47 | 340 |
| 05:30 PM | 45 | 47 | 0 | 92 | 5 | 51 | 37 | 93 | 15 | 70 | 6 | 91 | 1 | 35 | 10 | 46 | 322 |
| 05:45 PM | 25 | 33 | 2 | 60 | 7 | 63 | 39 | 109 | 13 | 69 | 11 | 93 | 1 | 30 | 12 | 43 | 305 |
| Total | 158 | 170 | 3 | 331 | 34 | 219 | 152 | 405 | 52 | 249 | 33 | 334 | 4 | 147 | 45 | 196 | 1266 |
| Grand Total | 297 | 371 | 5 | 673 | 59 | 354 | 301 | 714 | 103 | 463 | 63 | 629 | 8 | 276 | 76 | 360 | 2376 |
| Apprch % | 44.1 | 55.1 | 0.7 | | 8.3 | 49.6 | 42.2 | | 16.4 | 73.6 | 10 | | 2.2 | 76.7 | 21.1 | | |
| Total % | 12.5 | 15.6 | 0.2 | 28.3 | 2.5 | 14.9 | 12.7 | 30.1 | 4.3 | 19.5 | 2.7 | 26.5 | 0.3 | 11.6 | 3.2 | 15.2 | |
| Passenger Vehicles | 290 | 353 | 5 | 648 | 57 | 347 | 295 | 699 | 101 | 451 | 62 | 614 | 8 | 269 | 75 | 352 | 2313 |
| % Passenger Vehicles | 97.6 | 95.1 | 100 | 96.3 | 96.6 | 98 | 98 | 97.9 | 98.1 | 97.4 | 98.4 | 97.6 | 100 | 97.5 | 98.7 | 97.8 | 97.3 |
| Large 2 Axle Vehicles | 2 | 4 | 0 | 6 | 1 | 1 | 2 | 4 | 0 | 4 | 1 | 5 | 0 | 3 | 0 | 3 | 18 |
| % Large 2 Axle Vehicles | 0.7 | 1.1 | 0 | 0.9 | 1.7 | 0.3 | 0.7 | 0.6 | 0 | 0.9 | 1.6 | 0.8 | 0 | 1.1 | 0 | 0.8 | 0.8 |
| 3 Axle Vehicles | 1 | 7 | 0 | 8 | 1 | 1 | 1 | 3 | 1 | 3 | 0 | 4 | 0 | 4 | 0 | 4 | 19 |
| % 3 Axle Vehicles | 0.3 | 1.9 | 0 | 1.2 | 1.7 | 0.3 | 0.3 | 0.4 | 1 | 0.6 | 0 | 0.6 | 0 | 1.4 | 0 | 1.1 | 0.8 |
| 4+ Axle Trucks | 4 | 7 | 0 | 11 | 0 | 5 | 3 | 8 | 1 | 5 | 0 | 6 | 0 | 0 | 1 | 1 | 26 |
| % 4+ Axle Trucks | 1.3 | 1.9 | 0 | 1.6 | 0 | 1.4 | 1 | 1.1 | 1 | 1.1 | 0 | 1 | 0 | 0 | 1.3 | 0.3 | 1.1 |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 40 | **48** | 0 | 88 | **11** | 44 | 29 | 84 | **15** | 44 | 8 | 67 | **2** | **44** | **14** | **60** | 299 |
| 05:15 PM | **48** | 42 | 1 | 91 | 11 | 61 | **47** | **119** | 9 | 66 | 8 | 83 | 0 | 38 | 9 | 47 | **340** |
| 05:30 PM | 45 | 47 | 0 | **92** | 5 | 51 | 37 | 93 | 15 | **70** | 6 | 91 | 1 | 35 | 10 | 46 | 322 |
| 05:45 PM | 25 | 33 | **2** | 60 | 7 | **63** | 39 | 109 | 13 | 69 | **11** | **93** | 1 | 30 | 12 | 43 | 305 |
| Total Volume | 158 | 170 | 3 | 331 | 34 | 219 | 152 | 405 | 52 | 249 | 33 | 334 | 4 | 147 | 45 | 196 | 1266 |
| % App. Total | 47.7 | 51.4 | 0.9 | | 8.4 | 54.1 | 37.5 | | 15.6 | 74.6 | 9.9 | | 2 | 75 | 23 | | |
| PHF | .823 | .885 | .375 | .899 | .773 | .869 | .809 | .851 | .867 | .889 | .750 | .898 | .500 | .835 | .804 | .817 | .931 |

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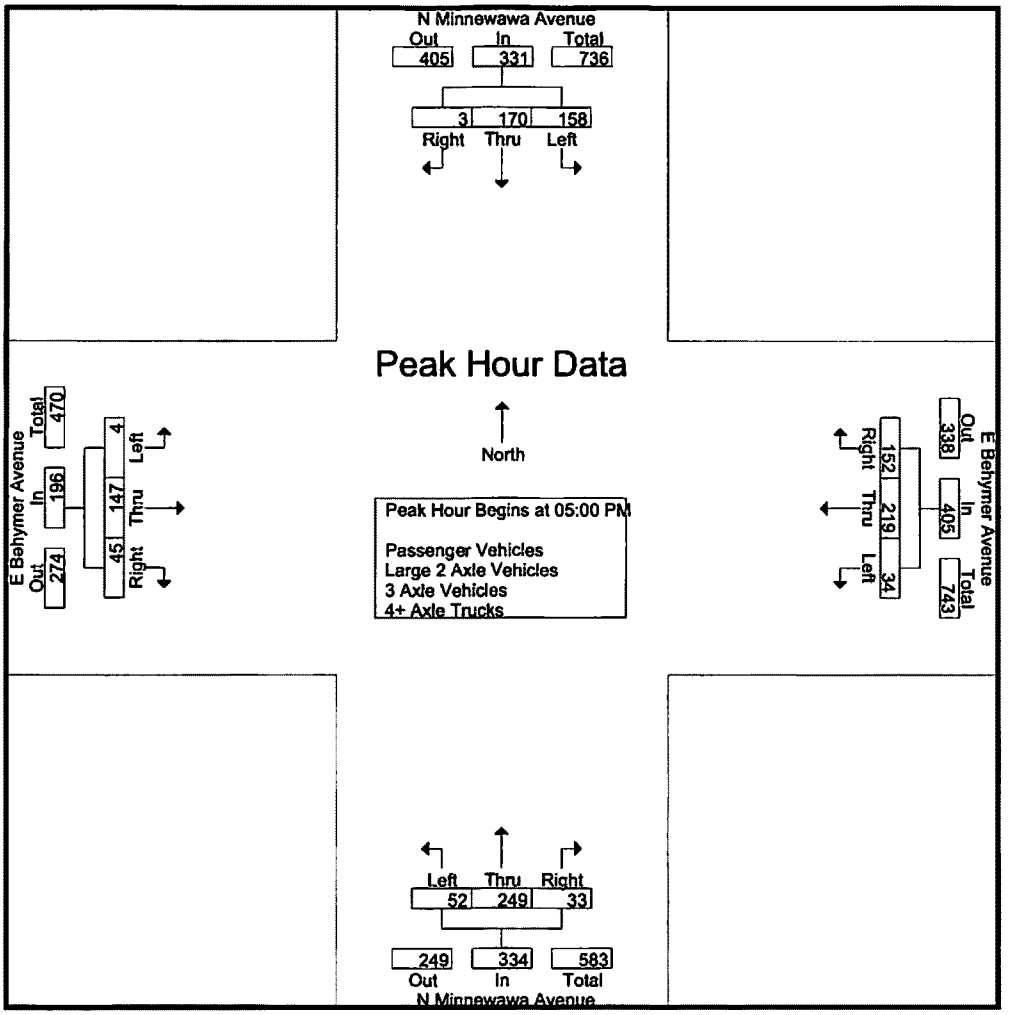
File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

| | 04:45 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 30 | **49** | **1** | 80 | **11** | 44 | 29 | 84 | **15** | 44 | 8 | 67 | **2** | **44** | **14** | **60** |
| +15 mins. | 40 | 48 | 0 | 88 | 11 | 61 | **47** | **119** | 9 | 66 | 8 | 83 | 0 | 38 | 9 | 47 |
| +30 mins. | **48** | 42 | 1 | 91 | 5 | 51 | 37 | 93 | 15 | **70** | 6 | 91 | 1 | 35 | 10 | 46 |
| +45 mins. | 45 | 47 | 0 | **92** | 7 | **63** | 39 | 109 | 13 | 69 | **11** | **93** | 1 | 30 | 12 | 43 |
| Total Volume | 163 | 186 | 2 | 351 | 34 | 219 | 152 | 405 | 52 | 249 | 33 | 334 | 4 | 147 | 45 | 196 |
| % App. Total | 46.4 | 53 | 0.6 | | 8.4 | 54.1 | 37.5 | | 15.6 | 74.6 | 9.9 | | 2 | 75 | 23 | |
| PHF | .849 | .949 | .500 | .954 | .773 | .869 | .809 | .851 | .867 | .889 | .750 | .898 | .500 | .835 | .804 | .817 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 44 | 45 | 0 | 89 | 6 | 21 | 34 | 61 | 16 | 50 | 12 | 78 | 1 | 35 | 8 | 44 | 272 |
| 04:15 PM | 26 | 47 | 1 | 74 | 3 | 32 | 38 | 73 | 14 | 53 | 4 | 71 | 0 | 32 | 5 | 37 | 255 |
| 04:30 PM | 35 | 49 | 0 | 84 | 9 | 39 | 38 | 86 | 8 | 48 | 7 | 63 | 2 | 29 | 10 | 41 | 274 |
| 04:45 PM | 30 | 48 | 1 | 79 | 6 | 39 | 35 | 80 | 12 | 55 | 6 | 73 | 1 | 30 | 8 | 39 | 271 |
| Total | 135 | 189 | 2 | 326 | 24 | 131 | 145 | 300 | 50 | 206 | 29 | 285 | 4 | 126 | 31 | 161 | 1072 |
| 05:00 PM | 40 | 47 | 0 | 87 | 11 | 43 | 29 | 83 | 14 | 43 | 8 | 65 | 2 | 42 | 14 | 58 | 293 |
| 05:15 PM | 46 | 41 | 1 | 88 | 11 | 60 | 46 | 117 | 9 | 66 | 8 | 83 | 0 | 38 | 9 | 47 | 335 |
| 05:30 PM | 45 | 45 | 0 | 90 | 4 | 51 | 36 | 91 | 15 | 68 | 6 | 89 | 1 | 34 | 10 | 45 | 315 |
| 05:45 PM | 24 | 31 | 2 | 57 | 7 | 62 | 39 | 108 | 13 | 68 | 11 | 92 | 1 | 29 | 11 | 41 | 298 |
| Total | 155 | 164 | 3 | 322 | 33 | 216 | 150 | 399 | 51 | 245 | 33 | 329 | 4 | 143 | 44 | 191 | 1241 |
| Grand Total | 290 | 353 | 5 | 648 | 57 | 347 | 295 | 699 | 101 | 451 | 62 | 614 | 8 | 269 | 75 | 352 | 2313 |
| Apprch % | 44.8 | 54.5 | 0.8 | | 8.2 | 49.6 | 42.2 | | 16.4 | 73.5 | 10.1 | | 2.3 | 76.4 | 21.3 | | |
| Total % | 12.5 | 15.3 | 0.2 | 28 | 2.5 | 15 | 12.8 | 30.2 | 4.4 | 19.5 | 2.7 | 26.5 | 0.3 | 11.6 | 3.2 | 15.2 | |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 40 | 47 | 0 | 87 | **11** | 43 | 29 | 83 | 14 | 43 | 8 | 65 | **2** | **42** | **14** | **58** | 293 |
| 05:15 PM | **46** | 41 | 1 | 88 | 11 | 60 | **46** | **117** | 9 | 66 | 8 | 83 | 0 | 38 | 9 | 47 | **335** |
| 05:30 PM | 45 | 45 | 0 | **90** | 4 | 51 | 36 | 91 | **15** | **68** | 6 | 89 | 1 | 34 | 10 | 45 | 315 |
| 05:45 PM | 24 | 31 | **2** | 57 | 7 | **62** | 39 | 108 | 13 | 68 | **11** | **92** | 1 | 29 | 11 | 41 | 298 |
| Total Volume | 155 | 164 | 3 | 322 | 33 | 216 | 150 | 399 | 51 | 245 | 33 | 329 | 4 | 143 | 44 | 191 | 1241 |
| % App. Total | 48.1 | 50.9 | 0.9 | | 8.3 | 54.1 | 37.6 | | 15.5 | 74.5 | 10 | | 2.1 | 74.9 | 23 | | |
| PHF | .842 | .872 | .375 | .894 | .750 | .871 | .815 | .853 | .850 | .901 | .750 | .894 | .500 | .851 | .786 | .823 | .926 |

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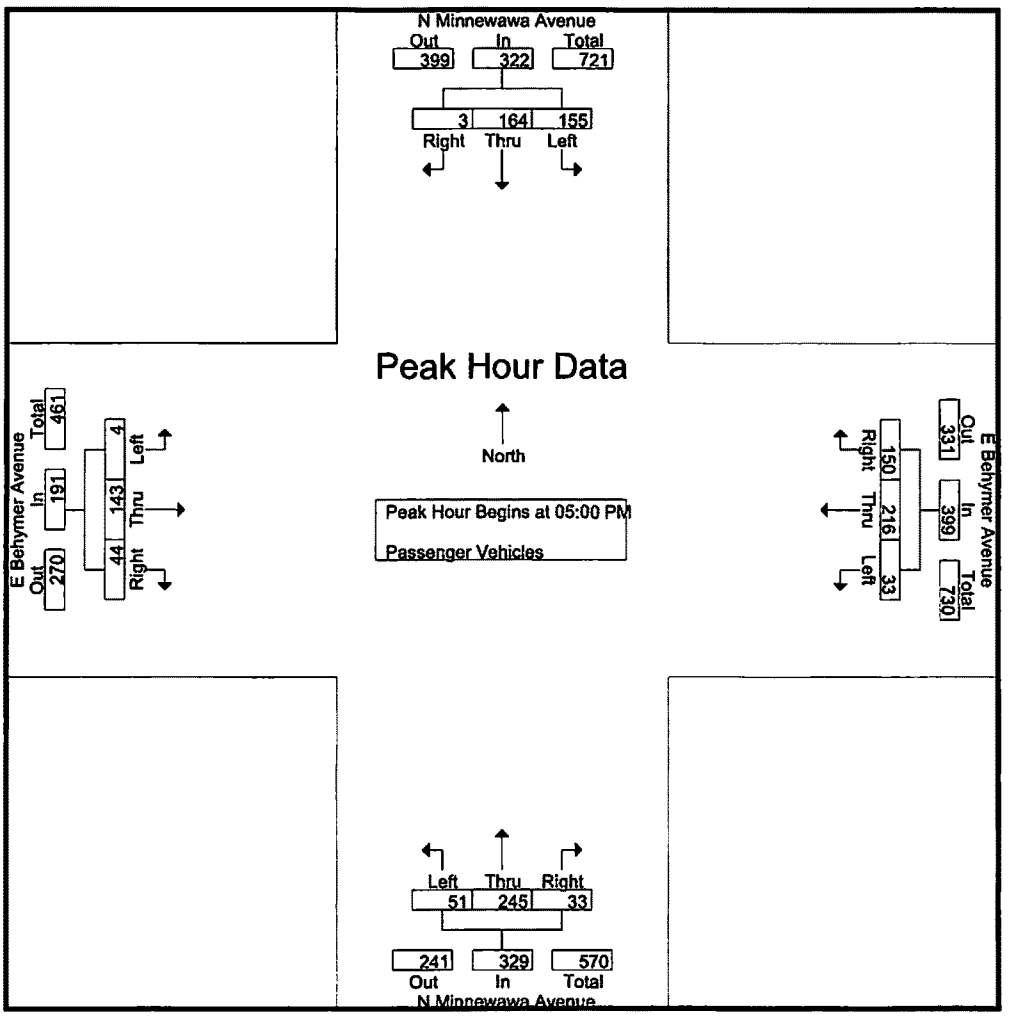
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 40 | **47** | 0 | 87 | **11** | 43 | 29 | 83 | 14 | 43 | 8 | 65 | **2** | **42** | **14** | **58** |
| +15 mins. | **46** | 41 | 1 | 88 | 11 | 60 | **46** | **117** | 9 | 66 | 8 | 83 | 0 | 38 | 9 | 47 |
| +30 mins. | 45 | 45 | 0 | **90** | 4 | 51 | 36 | 91 | **15** | **68** | 6 | 89 | 1 | 34 | 10 | 45 |
| +45 mins. | 24 | 31 | **2** | 57 | 7 | **62** | 39 | 108 | 13 | 68 | **11** | **92** | 1 | 29 | 11 | 41 |
| Total Volume | 155 | 164 | 3 | 322 | 33 | 216 | 150 | 399 | 51 | 245 | 33 | 329 | 4 | 143 | 44 | 191 |
| % App. Total | 48.1 | 50.9 | 0.9 | | 8.3 | 54.1 | 37.6 | | 15.5 | 74.5 | 10 | | 2.1 | 74.9 | 23 | |
| PHF | .842 | .872 | .375 | .894 | .750 | .871 | .815 | .853 | .850 | .901 | .750 | .894 | .500 | .851 | .786 | .823 |

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N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| 04:15 PM | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 4 |
| 04:30 PM | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 4 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2 | 1 | 0 | 3 | 1 | 1 | 1 | 3 | 0 | 2 | 1 | 3 | 0 | 2 | 0 | 2 | 11 |
| 05:00 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 3 |
| Total | 0 | 3 | 0 | 3 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 7 |
| Grand Total | 2 | 4 | 0 | 6 | 1 | 1 | 2 | 4 | 0 | 4 | 1 | 5 | 0 | 3 | 0 | 3 | 18 |
| Apprch % | 33.3 | 66.7 | 0 | | 25 | 25 | 50 | | 0 | 80 | 20 | | 0 | 100 | 0 | | |
| Total % | 11.1 | 22.2 | 0 | 33.3 | 5.6 | 5.6 | 11.1 | 22.2 | 0 | 22.2 | 5.6 | 27.8 | 0 | 16.7 | 0 | 16.7 | |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 3 |
| Total Volume | 0 | 3 | 0 | 3 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 7 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 100 | | 0 | 100 | 0 | | 0 | 100 | 0 | | |
| PHF | .000 | .750 | .000 | .750 | .000 | .000 | .250 | .250 | .000 | .500 | .000 | .500 | .000 | .250 | .000 | .250 | .583 |

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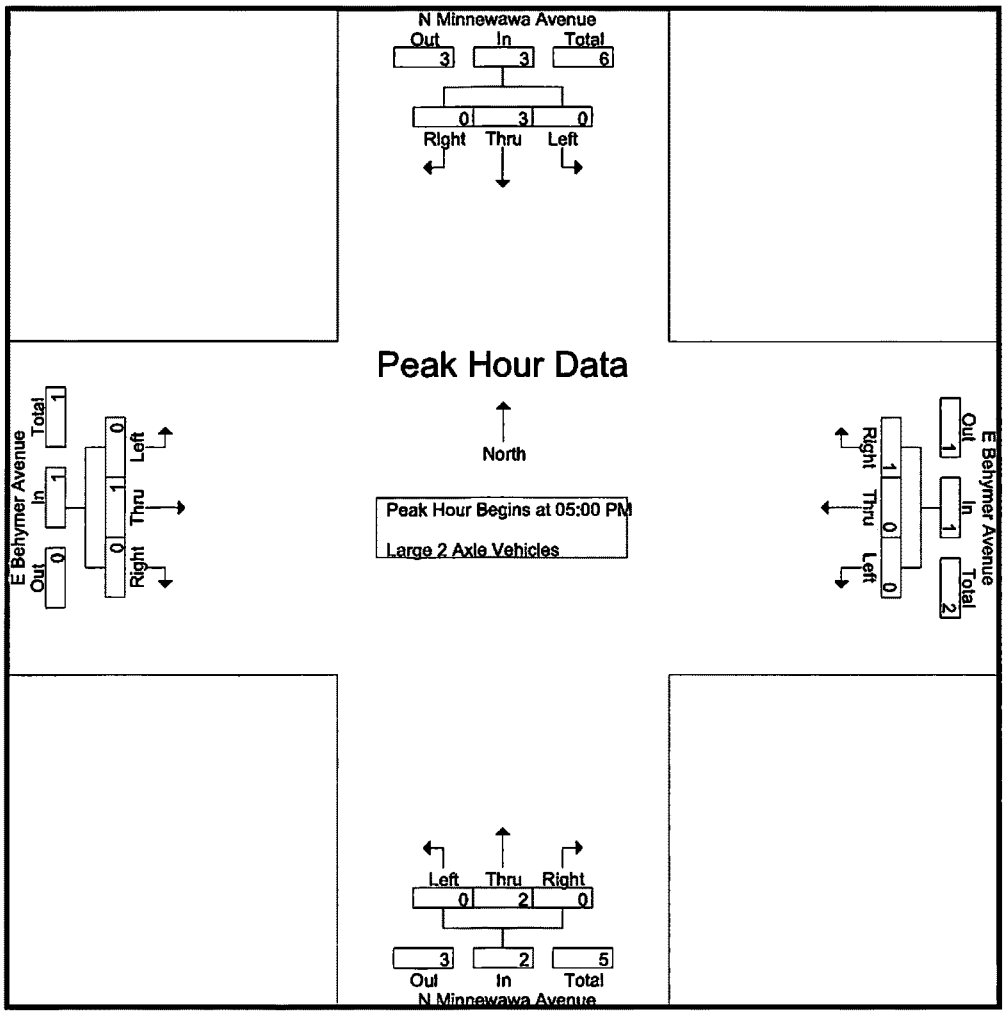
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| Total Volume | 0 | 3 | 0 | 3 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 100 | | 0 | 100 | 0 | | 0 | 100 | 0 | |
| PHF | .000 | .750 | .000 | .750 | .000 | .000 | .250 | .250 | .000 | .500 | .000 | .500 | .000 | .250 | .000 | .250 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 04:15 PM | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 04:30 PM | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| Total | 0 | 6 | 0 | 6 | 0 | 1 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 10 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 2 | 4 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 4 |
| 05:45 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 3 | 0 | 3 | 9 |
| Grand Total | 1 | 7 | 0 | 8 | 1 | 1 | 1 | 3 | 1 | 3 | 0 | 4 | 0 | 4 | 0 | 4 | 19 |
| Apprch % | 12.5 | 87.5 | 0 | | 33.3 | 33.3 | 33.3 | | 25 | 75 | 0 | | 0 | 100 | 0 | | |
| Total % | 5.3 | 36.8 | 0 | 42.1 | 5.3 | 5.3 | 5.3 | 15.8 | 5.3 | 15.8 | 0 | 21.1 | 0 | 21.1 | 0 | 21.1 | |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 2 | 4 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 4 |
| 05:45 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total Volume | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 3 | 0 | 3 | 9 |
| % App. Total | 50 | 50 | 0 | | 100 | 0 | 0 | | 33.3 | 66.7 | 0 | | 0 | 100 | 0 | | |
| PHF | .250 | .250 | .000 | .500 | .250 | .000 | .000 | .250 | .250 | .500 | .000 | .375 | .000 | .375 | .000 | .375 | .563 |

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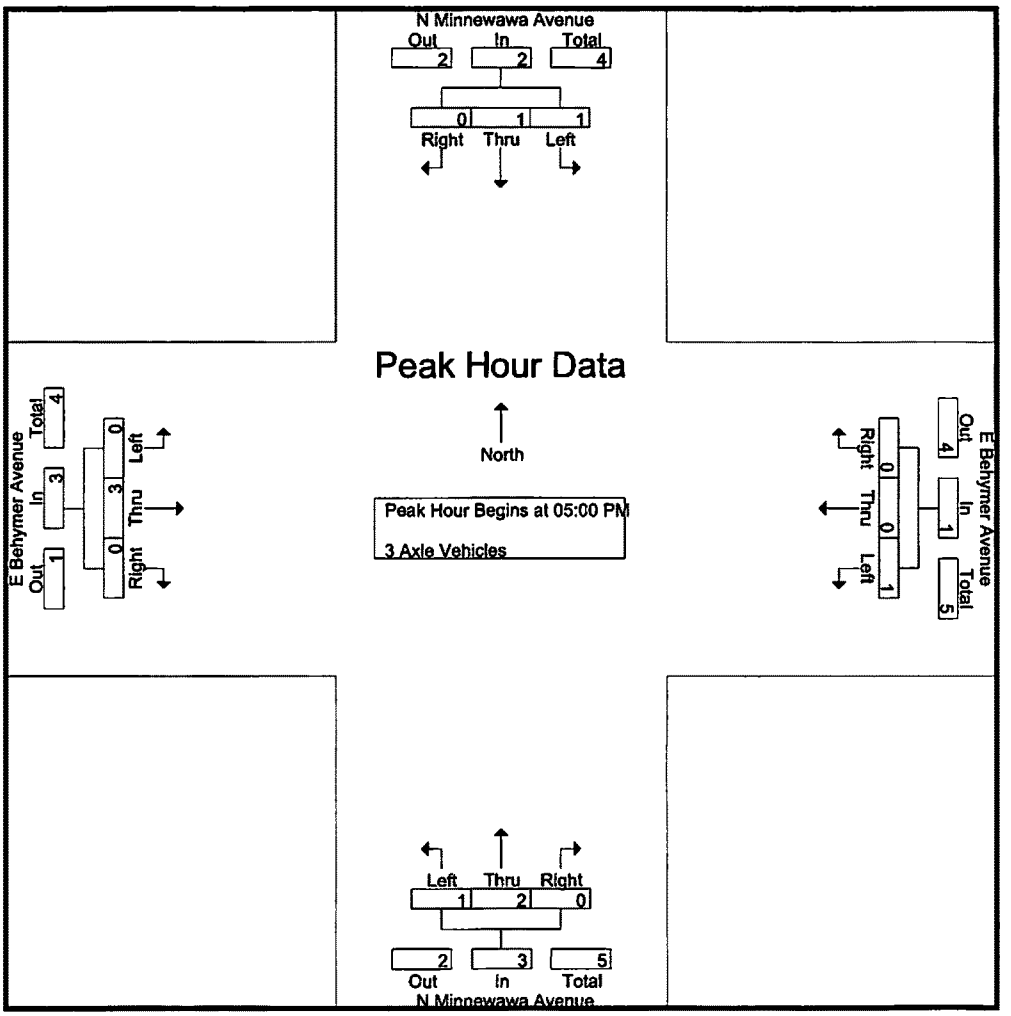
County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 2 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| +45 mins. | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 3 | 0 | 3 |
| % App. Total | 50 | 50 | 0 | | 100 | 0 | 0 | | 33.3 | 66.7 | 0 | | 0 | 100 | 0 | |
| PHF | .250 | .250 | .000 | .500 | .250 | .000 | .000 | .250 | .250 | .500 | .000 | .375 | .000 | .375 | .000 | .375 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 5 |
| 04:15 PM | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 5 |
| 04:30 PM | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 4 |
| 04:45 PM | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| Total | 2 | 5 | 0 | 7 | 0 | 2 | 2 | 4 | 1 | 5 | 0 | 6 | 0 | 0 | 0 | 0 | 17 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 05:30 PM | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 05:45 PM | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 |
| Total | 2 | 2 | 0 | 4 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 9 |
| Grand Total | 4 | 7 | 0 | 11 | 0 | 5 | 3 | 8 | 1 | 5 | 0 | 6 | 0 | 0 | 1 | 1 | 26 |
| Apprch % | 36.4 | 63.6 | 0 | | 0 | 62.5 | 37.5 | | 16.7 | 83.3 | 0 | | 0 | 0 | 100 | | |
| Total % | 15.4 | 26.9 | 0 | 42.3 | 0 | 19.2 | 11.5 | 30.8 | 3.8 | 19.2 | 0 | 23.1 | 0 | 0 | 3.8 | 3.8 | |

| | N Minnewawa Avenue Southbound | | | | E Behymer Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | E Behymer Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | **1** | 0 | **1** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | **2** | 0 | 0 | **2** | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **3** |
| 05:30 PM | 0 | **1** | 0 | 1 | 0 | 0 | **1** | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 05:45 PM | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | **1** | 3 |
| Total Volume | 2 | 2 | 0 | 4 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 9 |
| % App. Total | 50 | 50 | 0 | | 0 | 75 | 25 | | 0 | 0 | 0 | | 0 | 0 | 100 | | |
| PHF | .250 | .500 | .000 | .500 | .000 | .750 | .250 | 1.00 | .000 | .000 | .000 | .000 | .000 | .000 | .250 | .250 | .750 |

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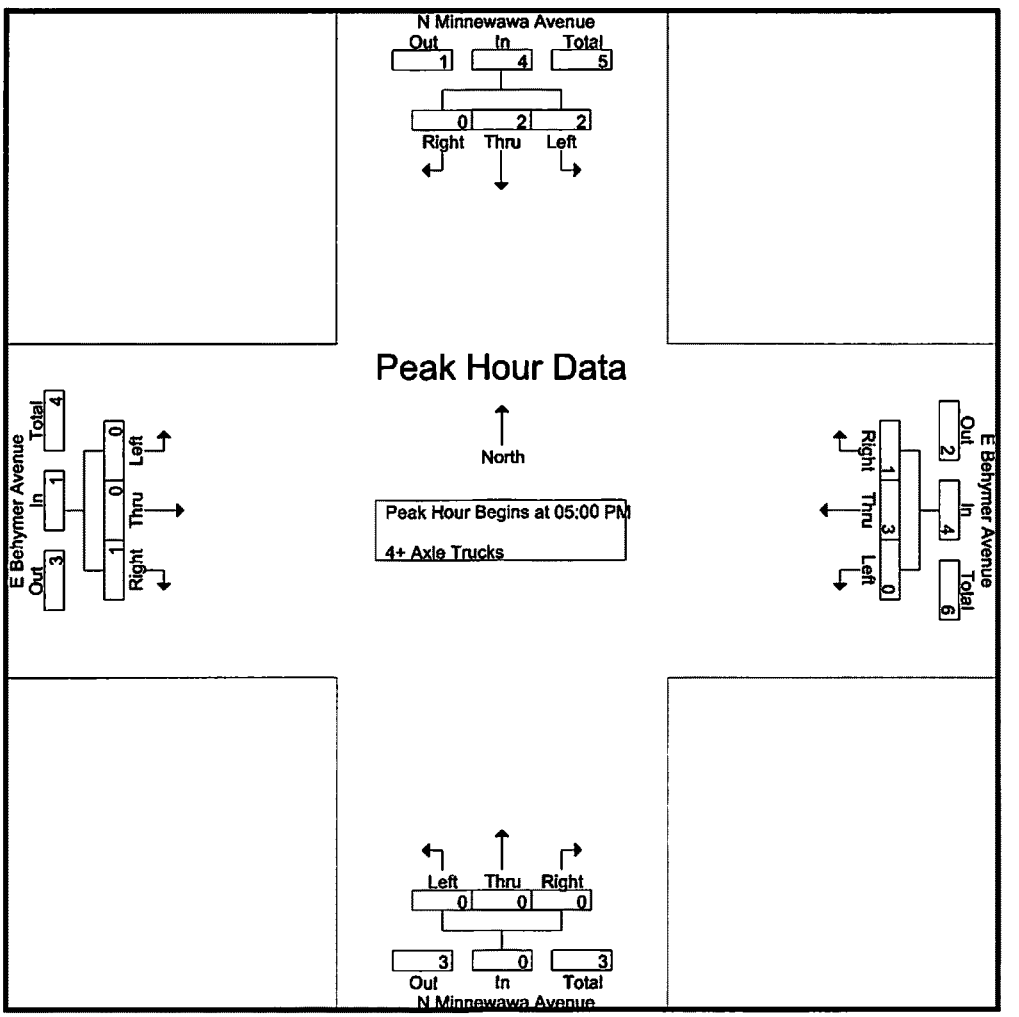
File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total Volume | 2 | 2 | 0 | 4 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| % App. Total | 50 | 50 | 0 | | 0 | 75 | 25 | | 0 | 0 | 0 | | 0 | 0 | 100 | |
| PHF | .250 | .500 | .000 | .500 | .000 | .750 | .250 | 1.000 | .000 | .000 | .000 | .000 | .000 | .000 | .250 | .250 |

Location: Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue

Date: 5/23/2024
Day: Thursday

**PEDESTRIANS**

| | North Leg<br>N Minnewawa Avenue<br>Pedestrians | East Leg<br>E Behymer Avenue<br>Pedestrians | South Leg<br>N Minnewawa Avenue<br>Pedestrians | West Leg<br>E Behymer Avenue<br>Pedestrians | |
|---|---|---|---|---|---|
| 7:00 AM | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 1 | 1 |
| 8:45 AM | 0 | 7 | 0 | 0 | 7 |
| TOTAL VOLUMES: | 0 | 7 | 0 | 1 | 8 |

| | North Leg<br>N Minnewawa Avenue<br>Pedestrians | East Leg<br>E Behymer Avenue<br>Pedestrians | South Leg<br>N Minnewawa Avenue<br>Pedestrians | West Leg<br>E Behymer Avenue<br>Pedestrians | |
|---|---|---|---|---|---|
| 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 |

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Location: Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue

Date: 5/23/2024
Day: Thursday

**BICYCLES**

| | Southbound N Minnewawa Avenue | | | Westbound E Behymer Avenue | | | Northbound N Minnewawa Avenue | | | Eastbound E Behymer Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:15 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |

| | Southbound N Minnewawa Avenue | | | Westbound E Behymer Avenue | | | Northbound N Minnewawa Avenue | | | Eastbound E Behymer Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road
Weather: Clear

File Name : 05_CFO_Min_Per AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Total Volume

| | N Minnewawa Avenue Southbound | | | | Perrin Road Westbound | | | | N Minnewawa Avenue Northbound | | | | Perrin Road Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 43 | 0 | 43 | 0 | 0 | 0 | 0 | 1 | 44 | 2 | 47 | 3 | 0 | 1 | 4 | 94 |
| 07:15 AM | 0 | 47 | 1 | 48 | 0 | 0 | 0 | 0 | 1 | 55 | 1 | 57 | 3 | 0 | 1 | 4 | 109 |
| 07:30 AM | 0 | 74 | 3 | 77 | 0 | 0 | 1 | 1 | 1 | 67 | 0 | 68 | 1 | 0 | 1 | 2 | 148 |
| 07:45 AM | 2 | 108 | 0 | 110 | 3 | 0 | 0 | 3 | 1 | 68 | 3 | 72 | 2 | 0 | 1 | 3 | 188 |
| Total | 2 | 272 | 4 | 278 | 3 | 0 | 1 | 4 | 4 | 234 | 6 | 244 | 9 | 0 | 4 | 13 | 539 |
| 08:00 AM | 0 | 84 | 1 | 85 | 1 | 0 | 0 | 1 | 0 | 83 | 3 | 86 | 3 | 0 | 1 | 4 | 176 |
| 08:15 AM | 0 | 71 | 2 | 73 | 0 | 0 | 1 | 1 | 1 | 91 | 5 | 97 | 2 | 0 | 0 | 2 | 173 |
| 08:30 AM | 0 | 61 | 1 | 62 | 1 | 0 | 0 | 1 | 0 | 67 | 2 | 69 | 0 | 0 | 1 | 1 | 133 |
| 08:45 AM | 0 | 46 | 0 | 46 | 1 | 0 | 0 | 1 | 0 | 42 | 3 | 45 | 1 | 0 | 0 | 1 | 93 |
| Total | 0 | 262 | 4 | 266 | 3 | 0 | 1 | 4 | 1 | 283 | 13 | 297 | 6 | 0 | 2 | 8 | 575 |
| Grand Total | 2 | 534 | 8 | 544 | 6 | 0 | 2 | 8 | 5 | 517 | 19 | 541 | 15 | 0 | 6 | 21 | 1114 |
| Apprch % | 0.4 | 98.2 | 1.5 | | 75 | 0 | 25 | | 0.9 | 95.6 | 3.5 | | 71.4 | 0 | 28.6 | | |
| Total % | 0.2 | 47.9 | 0.7 | 48.8 | 0.5 | 0 | 0.2 | 0.7 | 0.4 | 46.4 | 1.7 | 48.6 | 1.3 | 0 | 0.5 | 1.9 | |

| | N Minnewawa Avenue Southbound | | | | Perrin Road Westbound | | | | N Minnewawa Avenue Northbound | | | | Perrin Road Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | 74 | **3** | 77 | 0 | 0 | **1** | 1 | **1** | 67 | 0 | 68 | 1 | 0 | **1** | 2 | 148 |
| 07:45 AM | **2** | **108** | 0 | **110** | **3** | 0 | 0 | **3** | 1 | 68 | 3 | 72 | 2 | 0 | 1 | 3 | **188** |
| 08:00 AM | 0 | 84 | 1 | 85 | 1 | 0 | 0 | 1 | 0 | 83 | 3 | 86 | **3** | 0 | 1 | 4 | 176 |
| 08:15 AM | 0 | 71 | 2 | 73 | 0 | 0 | 1 | 1 | 1 | **91** | **5** | **97** | 2 | 0 | 0 | 2 | 173 |
| Total Volume | 2 | 337 | 6 | 345 | 4 | 0 | 2 | 6 | 3 | 309 | 11 | 323 | 8 | 0 | 3 | 11 | 685 |
| % App. Total | 0.6 | 97.7 | 1.7 | | 66.7 | 0 | 33.3 | | 0.9 | 95.7 | 3.4 | | 72.7 | 0 | 27.3 | | |
| PHF | .250 | .780 | .500 | .784 | .333 | .000 | .500 | .500 | .750 | .849 | .550 | .832 | .667 | .000 | .750 | .688 | .911 |

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County of Fresno
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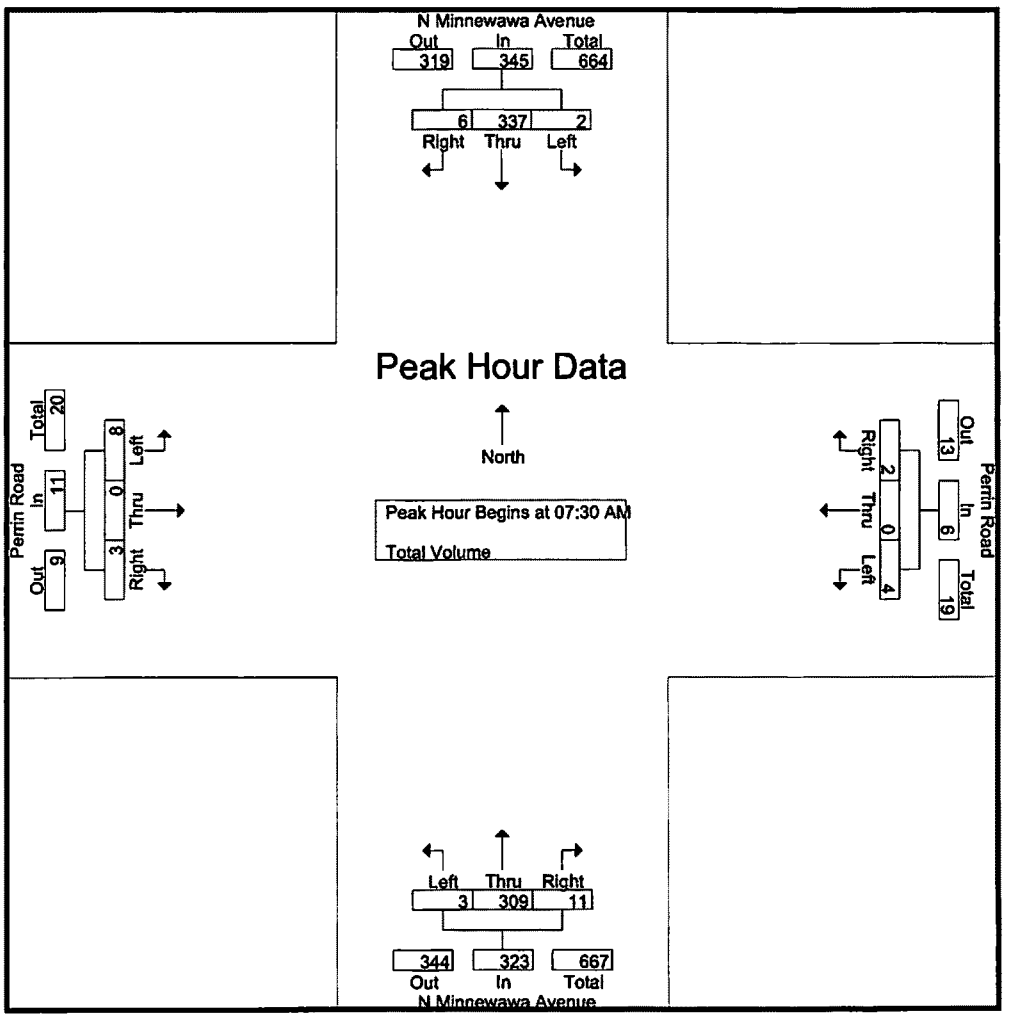
File Name : 05_CFO_Min_Per AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:45 AM | | | | 07:00 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 74 | 3 | 77 | 0 | 0 | 1 | 1 | 1 | 68 | 3 | 72 | 3 | 0 | 1 | 4 |
| +15 mins. | 2 | 108 | 0 | 110 | 3 | 0 | 0 | 3 | 0 | 83 | 3 | 86 | 3 | 0 | 1 | 4 |
| +30 mins. | 0 | 84 | 1 | 85 | 1 | 0 | 0 | 1 | 1 | 91 | 5 | 97 | 1 | 0 | 1 | 2 |
| +45 mins. | 0 | 71 | 2 | 73 | 0 | 0 | 1 | 1 | 0 | 67 | 2 | 69 | 2 | 0 | 1 | 3 |
| Total Volume | 2 | 337 | 6 | 345 | 4 | 0 | 2 | 6 | 2 | 309 | 13 | 324 | 9 | 0 | 4 | 13 |
| % App. Total | 0.6 | 97.7 | 1.7 | | 66.7 | 0 | 33.3 | | 0.6 | 95.4 | 4 | | 69.2 | 0 | 30.8 | |
| PHF | .250 | .780 | .500 | .784 | .333 | .000 | .500 | .500 | .500 | .849 | .650 | .835 | .750 | .000 | 1.000 | .813 |

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County of Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road
Weather: Clear

File Name : 05_CFO_Min_Per PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Total Volume

| | N Minnewawa Avenue Southbound | | | | Perrin Road Westbound | | | | N Minnewawa Avenue Northbound | | | | Perrin Road Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 2 | 61 | 0 | 63 | 1 | 0 | 0 | 1 | 0 | 83 | 1 | 84 | 0 | 0 | 1 | 1 | 149 |
| 04:15 PM | 0 | 58 | 1 | 59 | 0 | 0 | 0 | 0 | 0 | 65 | 1 | 66 | 0 | 0 | 0 | 0 | 125 |
| 04:30 PM | 0 | 66 | 0 | 66 | 0 | 0 | 0 | 0 | 1 | 69 | 1 | 71 | 0 | 0 | 1 | 1 | 138 |
| 04:45 PM | 0 | 65 | 0 | 65 | 1 | 0 | 0 | 1 | 0 | 75 | 0 | 75 | 0 | 0 | 0 | 0 | 141 |
| Total | 2 | 250 | 1 | 253 | 2 | 0 | 0 | 2 | 1 | 292 | 3 | 296 | 0 | 0 | 2 | 2 | 553 |
| 05:00 PM | 0 | 70 | 0 | 70 | 2 | 0 | 0 | 2 | 0 | 70 | 0 | 70 | 0 | 0 | 0 | 0 | 142 |
| 05:15 PM | 0 | 67 | 0 | 67 | 1 | 0 | 2 | 3 | 0 | 83 | 0 | 83 | 0 | 0 | 0 | 0 | 153 |
| 05:30 PM | 0 | 59 | 0 | 59 | 5 | 0 | 0 | 5 | 0 | 94 | 0 | 94 | 0 | 0 | 1 | 1 | 159 |
| 05:45 PM | 0 | 54 | 1 | 55 | 1 | 0 | 0 | 1 | 0 | 91 | 2 | 93 | 0 | 0 | 1 | 1 | 150 |
| Total | 0 | 250 | 1 | 251 | 9 | 0 | 2 | 11 | 0 | 338 | 2 | 340 | 0 | 0 | 2 | 2 | 604 |
| Grand Total | 2 | 500 | 2 | 504 | 11 | 0 | 2 | 13 | 1 | 630 | 5 | 636 | 0 | 0 | 4 | 4 | 1157 |
| Apprch % | 0.4 | 99.2 | 0.4 | | 84.6 | 0 | 15.4 | | 0.2 | 99.1 | 0.8 | | 0 | 0 | 100 | | |
| Total % | 0.2 | 43.2 | 0.2 | 43.6 | 1 | 0 | 0.2 | 1.1 | 0.1 | 54.5 | 0.4 | 55 | 0 | 0 | 0.3 | 0.3 | |

| | N Minnewawa Avenue Southbound | | | | Perrin Road Westbound | | | | N Minnewawa Avenue Northbound | | | | Perrin Road Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | **70** | 0 | **70** | 2 | 0 | 0 | 2 | 0 | 70 | 0 | 70 | 0 | 0 | 0 | 0 | 142 |
| 05:15 PM | 0 | 67 | 0 | 67 | 1 | 0 | **2** | 3 | 0 | 83 | 0 | 83 | 0 | 0 | 0 | 0 | 153 |
| 05:30 PM | 0 | 59 | 0 | 59 | **5** | 0 | 0 | **5** | 0 | **94** | 0 | **94** | 0 | 0 | **1** | **1** | **159** |
| 05:45 PM | 0 | 54 | **1** | 55 | 1 | 0 | 0 | 1 | 0 | 91 | **2** | 93 | 0 | 0 | 1 | 1 | 150 |
| Total Volume | 0 | 250 | 1 | 251 | 9 | 0 | 2 | 11 | 0 | 338 | 2 | 340 | 0 | 0 | 2 | 2 | 604 |
| % App. Total | 0 | 99.6 | 0.4 | | 81.8 | 0 | 18.2 | | 0 | 99.4 | 0.6 | | 0 | 0 | 100 | | |
| PHF | .000 | .893 | .250 | .896 | .450 | .000 | .250 | .550 | .000 | .899 | .250 | .904 | .000 | .000 | .500 | .500 | .950 |

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County of Fresno
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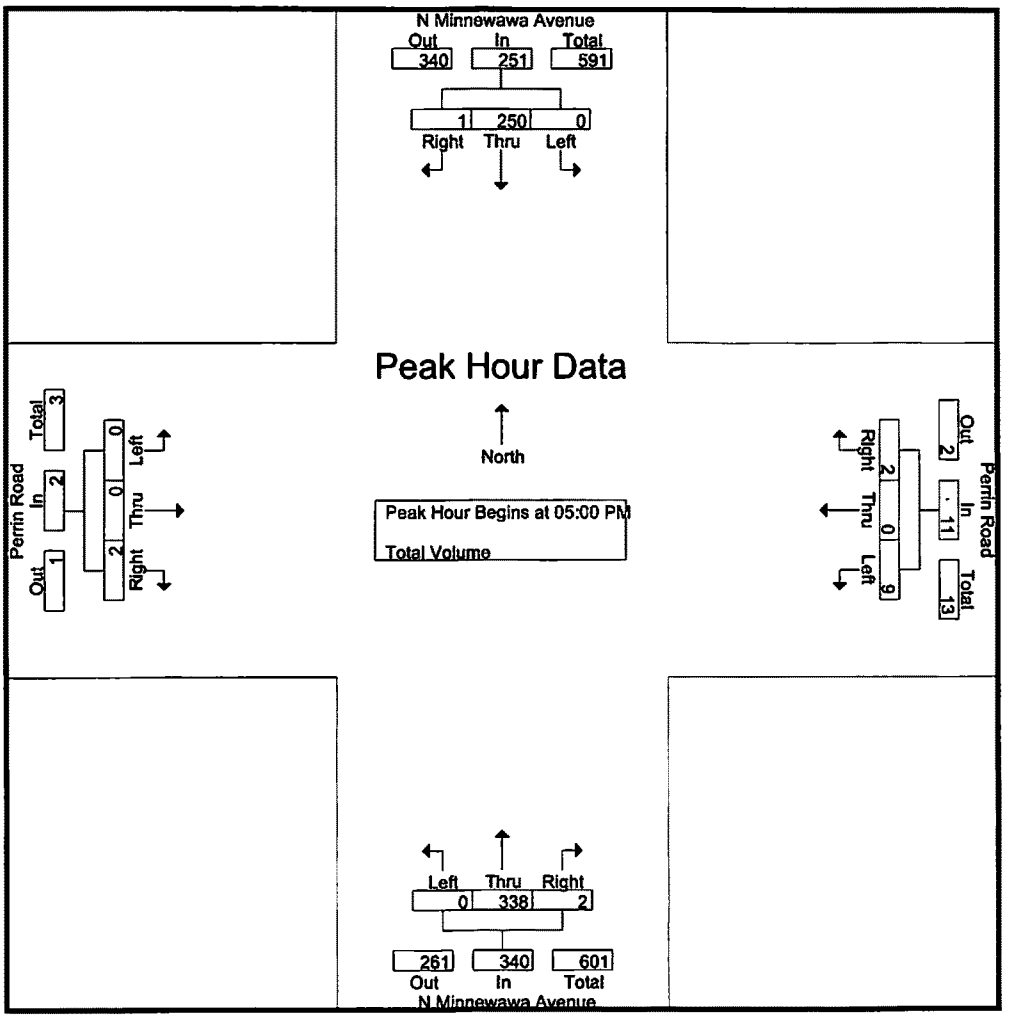
File Name : 05_CFO_Min_Per PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | | 04:45 PM | | | | 05:00 PM | | | | 04:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 66 | 0 | 66 | 1 | 0 | 0 | 1 | 0 | 70 | 0 | 70 | 0 | 0 | 1 | 1 |
| +15 mins. | 0 | 65 | 0 | 65 | 2 | 0 | 0 | 2 | 0 | 83 | 0 | 83 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | **70** | 0 | **70** | 1 | 0 | **2** | 3 | 0 | **94** | 0 | **94** | 0 | 0 | 1 | 1 |
| +45 mins. | 0 | 67 | 0 | 67 | **5** | 0 | 0 | **5** | 0 | 91 | **2** | 93 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 268 | 0 | 268 | 9 | 0 | 2 | 11 | 0 | 338 | 2 | 340 | 0 | 0 | 2 | 2 |
| % App. Total | 0 | 100 | 0 | | 81.8 | 0 | 18.2 | | 0 | 99.4 | 0.6 | | 0 | 0 | 100 | |
| PHF | .000 | .957 | .000 | .957 | .450 | .000 | .250 | .550 | .000 | .899 | .250 | .904 | .000 | .000 | .500 | .500 |

Location: Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road

Date: 5/23/2024
Day: Thursday

**PEDESTRIANS**

| | North Leg<br>N Minnewawa Avenue<br>Pedestrians | East Leg<br>Perrin Road<br>Pedestrians | South Leg<br>N Minnewawa Avenue<br>Pedestrians | West Leg<br>Perrin Road<br>Pedestrians | |
|---|---|---|---|---|---|
| 7:00 AM | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 1 | 0 | 0 | 1 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 1 | 1 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 1 | 0 | 1 | 2 |

| | North Leg<br>N Minnewawa Avenue<br>Pedestrians | East Leg<br>Perrin Road<br>Pedestrians | South Leg<br>N Minnewawa Avenue<br>Pedestrians | West Leg<br>Perrin Road<br>Pedestrians | |
|---|---|---|---|---|---|
| 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 1 | 0 | 0 | 1 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 1 | 0 | 0 | 1 |

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Corona, CA 92878
951-268-6268

Location: Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road

Date: 5/23/2024
Day: Thursday

**BICYCLES**

| | Southbound N Minnewawa Avenue | | | Westbound Perrin Road | | | Northbound N Minnewawa Avenue | | | Eastbound Perrin Road | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:15 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |

| | Southbound N Minnewawa Avenue | | | Westbound Perrin Road | | | Northbound N Minnewawa Avenue | | | Eastbound Perrin Road | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 10 | 25 | 6 | 41 | 0 | 40 | 15 | 55 | 13 | 26 | 0 | 39 | 6 | 48 | 16 | 70 | 205 |
| 07:15 AM | 13 | 28 | 5 | 46 | 5 | 49 | 22 | 76 | 30 | 31 | 1 | 62 | 8 | 58 | 19 | 85 | 269 |
| 07:30 AM | 5 | 44 | 8 | 57 | 1 | 80 | 33 | 114 | 27 | 36 | 3 | 66 | 3 | 83 | 44 | 130 | 367 |
| 07:45 AM | 46 | 51 | 13 | 110 | 6 | 69 | 28 | 103 | 29 | 28 | 5 | 62 | 8 | 96 | 31 | 135 | 410 |
| Total | 74 | 148 | 32 | 254 | 12 | 238 | 98 | 348 | 99 | 121 | 9 | 229 | 25 | 285 | 110 | 420 | 1251 |
| 08:00 AM | 22 | 47 | 6 | 75 | 3 | 61 | 36 | 100 | 31 | 42 | 4 | 77 | 11 | 75 | 23 | 109 | 361 |
| 08:15 AM | 18 | 51 | 7 | 76 | 4 | 55 | 40 | 99 | 33 | 46 | 6 | 85 | 12 | 64 | 30 | 106 | 366 |
| 08:30 AM | 14 | 49 | 4 | 67 | 5 | 52 | 29 | 86 | 26 | 32 | 1 | 59 | 10 | 58 | 25 | 93 | 305 |
| 08:45 AM | 19 | 26 | 2 | 47 | 6 | 37 | 12 | 55 | 14 | 28 | 1 | 43 | 6 | 55 | 11 | 72 | 217 |
| Total | 73 | 173 | 19 | 265 | 18 | 205 | 117 | 340 | 104 | 148 | 12 | 264 | 39 | 252 | 89 | 380 | 1249 |
| Grand Total | 147 | 321 | 51 | 519 | 30 | 443 | 215 | 688 | 203 | 269 | 21 | 493 | 64 | 537 | 199 | 800 | 2500 |
| Apprch % | 28.3 | 61.8 | 9.8 | | 4.4 | 64.4 | 31.2 | | 41.2 | 54.6 | 4.3 | | 8 | 67.1 | 24.9 | | |
| Total % | 5.9 | 12.8 | 2 | 20.8 | 1.2 | 17.7 | 8.6 | 27.5 | 8.1 | 10.8 | 0.8 | 19.7 | 2.6 | 21.5 | 8 | 32 | |
| Passenger Vehicles | 140 | 316 | 46 | 502 | 27 | 432 | 207 | 666 | 196 | 256 | 19 | 471 | 61 | 517 | 193 | 771 | 2410 |
| % Passenger Vehicles | 95.2 | 98.4 | 90.2 | 96.7 | 90 | 97.5 | 96.3 | 96.8 | 96.6 | 95.2 | 90.5 | 95.5 | 95.3 | 96.3 | 97 | 96.4 | 96.4 |
| Large 2 Axle Vehicles | 4 | 2 | 1 | 7 | 1 | 5 | 2 | 8 | 3 | 3 | 0 | 6 | 0 | 12 | 3 | 15 | 36 |
| % Large 2 Axle Vehicles | 2.7 | 0.6 | 2 | 1.3 | 3.3 | 1.1 | 0.9 | 1.2 | 1.5 | 1.1 | 0 | 1.2 | 0 | 2.2 | 1.5 | 1.9 | 1.4 |
| 3 Axle Vehicles | 1 | 0 | 2 | 3 | 2 | 3 | 5 | 10 | 0 | 2 | 1 | 3 | 2 | 6 | 2 | 10 | 26 |
| % 3 Axle Vehicles | 0.7 | 0 | 3.9 | 0.6 | 6.7 | 0.7 | 2.3 | 1.5 | 0 | 0.7 | 4.8 | 0.6 | 3.1 | 1.1 | 1 | 1.2 | 1 |
| 4+ Axle Trucks | 2 | 3 | 2 | 7 | 0 | 3 | 1 | 4 | 4 | 8 | 1 | 13 | 1 | 2 | 1 | 4 | 28 |
| % 4+ Axle Trucks | 1.4 | 0.9 | 3.9 | 1.3 | 0 | 0.7 | 0.5 | 0.6 | 2 | 3 | 4.8 | 2.6 | 1.6 | 0.4 | 0.5 | 0.5 | 1.1 |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 5 | 44 | 8 | 57 | 1 | **80** | 33 | **114** | 27 | 36 | 3 | 66 | 3 | 83 | **44** | 130 | 367 |
| 07:45 AM | **46** | **51** | **13** | **110** | **6** | 69 | 28 | 103 | 29 | 28 | 5 | 62 | 8 | **96** | 31 | **135** | **410** |
| 08:00 AM | 22 | 47 | 6 | 75 | 3 | 61 | 36 | 100 | 31 | 42 | 4 | 77 | 11 | 75 | 23 | 109 | 361 |
| 08:15 AM | 18 | 51 | 7 | 76 | 4 | 55 | **40** | 99 | **33** | **46** | **6** | **85** | **12** | 64 | 30 | 106 | 366 |
| Total Volume | 91 | 193 | 34 | 318 | 14 | 265 | 137 | 416 | 120 | 152 | 18 | 290 | 34 | 318 | 128 | 480 | 1504 |
| % App. Total | 28.6 | 60.7 | 10.7 | | 3.4 | 63.7 | 32.9 | | 41.4 | 52.4 | 6.2 | | 7.1 | 66.2 | 26.7 | | |
| PHF | .495 | .946 | .654 | .723 | .583 | .828 | .856 | .912 | .909 | .826 | .750 | .853 | .708 | .828 | .727 | .889 | .917 |

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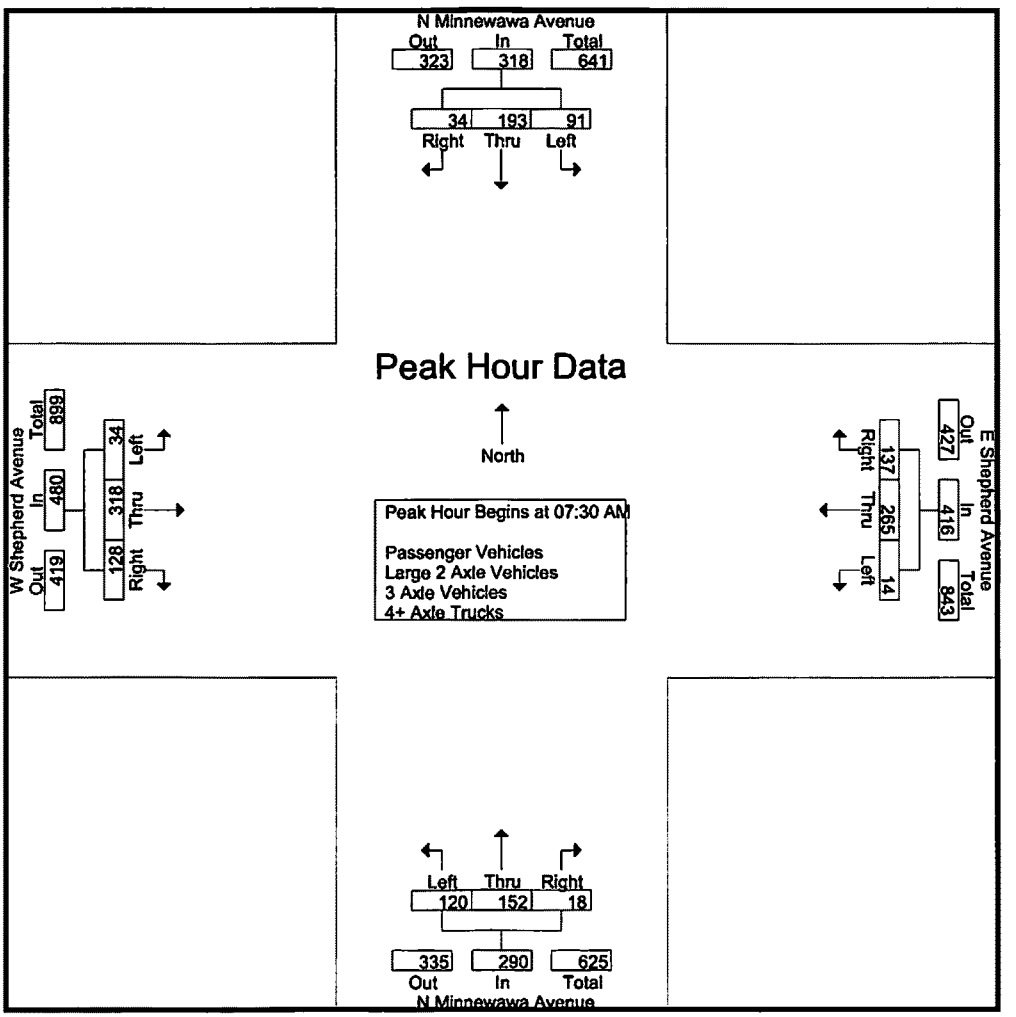
City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | **46** | **51** | **13** | **110** | 1 | **80** | 33 | **114** | 27 | 36 | 3 | 66 | 3 | 83 | **44** | 130 |
| +15 mins. | 22 | 47 | 6 | 75 | **6** | 69 | 28 | 103 | 29 | 28 | 5 | 62 | 8 | **96** | 31 | **135** |
| +30 mins. | 18 | 51 | 7 | 76 | 3 | 61 | 36 | 100 | 31 | 42 | 4 | 77 | 11 | 75 | 23 | 109 |
| +45 mins. | 14 | 49 | 4 | 67 | 4 | 55 | **40** | 99 | **33** | **46** | **6** | **85** | **12** | 64 | 30 | 106 |
| Total Volume | 100 | 198 | 30 | 328 | 14 | 265 | 137 | 416 | 120 | 152 | 18 | 290 | 34 | 318 | 128 | **480** |
| % App. Total | 30.5 | 60.4 | 9.1 | | 3.4 | 63.7 | 32.9 | | 41.4 | 52.4 | 6.2 | | 7.1 | 66.2 | 26.7 | |
| PHF | .543 | .971 | .577 | .745 | .583 | .828 | .856 | .912 | .909 | .826 | .750 | .853 | .708 | .828 | .727 | .889 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 9 | 24 | 4 | 37 | 0 | 40 | 14 | 54 | 12 | 26 | 0 | 38 | 6 | 48 | 14 | 68 | 197 |
| 07:15 AM | 13 | 28 | 4 | 45 | 4 | 47 | 22 | 73 | 27 | 28 | 1 | 56 | 8 | 54 | 18 | 80 | 254 |
| 07:30 AM | 5 | 43 | 8 | 56 | 1 | 76 | 33 | 110 | 27 | 35 | 3 | 65 | 2 | 80 | 44 | 126 | 357 |
| 07:45 AM | 46 | 51 | 13 | 110 | 6 | 69 | 27 | 102 | 29 | 27 | 5 | 61 | 8 | 93 | 31 | 132 | 405 |
| Total | 73 | 146 | 29 | 248 | 11 | 232 | 96 | 339 | 95 | 116 | 9 | 220 | 24 | 275 | 107 | 406 | 1213 |
| 08:00 AM | 21 | 46 | 6 | 73 | 2 | 58 | 36 | 96 | 30 | 39 | 3 | 72 | 10 | 72 | 22 | 104 | 345 |
| 08:15 AM | 15 | 49 | 6 | 70 | 3 | 54 | 37 | 94 | 33 | 44 | 6 | 83 | 12 | 63 | 28 | 103 | 350 |
| 08:30 AM | 13 | 49 | 3 | 65 | 5 | 51 | 27 | 83 | 25 | 32 | 0 | 57 | 10 | 54 | 25 | 89 | 294 |
| 08:45 AM | 18 | 26 | 2 | 46 | 6 | 37 | 11 | 54 | 13 | 25 | 1 | 39 | 5 | 53 | 11 | 69 | 208 |
| Total | 67 | 170 | 17 | 254 | 16 | 200 | 111 | 327 | 101 | 140 | 10 | 251 | 37 | 242 | 86 | 365 | 1197 |
| Grand Total | 140 | 316 | 46 | 502 | 27 | 432 | 207 | 666 | 196 | 256 | 19 | 471 | 61 | 517 | 193 | 771 | 2410 |
| Apprch % | 27.9 | 62.9 | 9.2 | | 4.1 | 64.9 | 31.1 | | 41.6 | 54.4 | 4 | | 7.9 | 67.1 | 25 | | |
| Total % | 5.8 | 13.1 | 1.9 | 20.8 | 1.1 | 17.9 | 8.6 | 27.6 | 8.1 | 10.6 | 0.8 | 19.5 | 2.5 | 21.5 | 8 | 32 | |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 5 | 43 | 8 | 56 | 1 | **76** | 33 | 110 | 27 | 35 | 3 | 65 | 2 | 80 | **44** | 126 | 357 |
| 07:45 AM | **46** | **51** | **13** | **110** | **6** | 69 | 27 | 102 | 29 | 27 | 5 | 61 | 8 | **93** | 31 | **132** | **405** |
| 08:00 AM | 21 | 46 | 6 | 73 | 2 | 58 | 36 | 96 | 30 | 39 | 3 | 72 | 10 | 72 | 22 | 104 | 345 |
| 08:15 AM | 15 | 49 | 6 | 70 | 3 | 54 | **37** | 94 | **33** | **44** | **6** | **83** | **12** | 63 | 28 | 103 | 350 |
| Total Volume | 87 | 189 | 33 | 309 | 12 | 257 | 133 | 402 | 119 | 145 | 17 | 281 | 32 | 308 | 125 | 465 | 1457 |
| % App. Total | 28.2 | 61.2 | 10.7 | | 3 | 63.9 | 33.1 | | 42.3 | 51.6 | 6 | | 6.9 | 66.2 | 26.9 | | |
| PHF | .473 | .926 | .635 | .702 | .500 | .845 | .899 | .914 | .902 | .824 | .708 | .846 | .667 | .828 | .710 | .881 | .899 |

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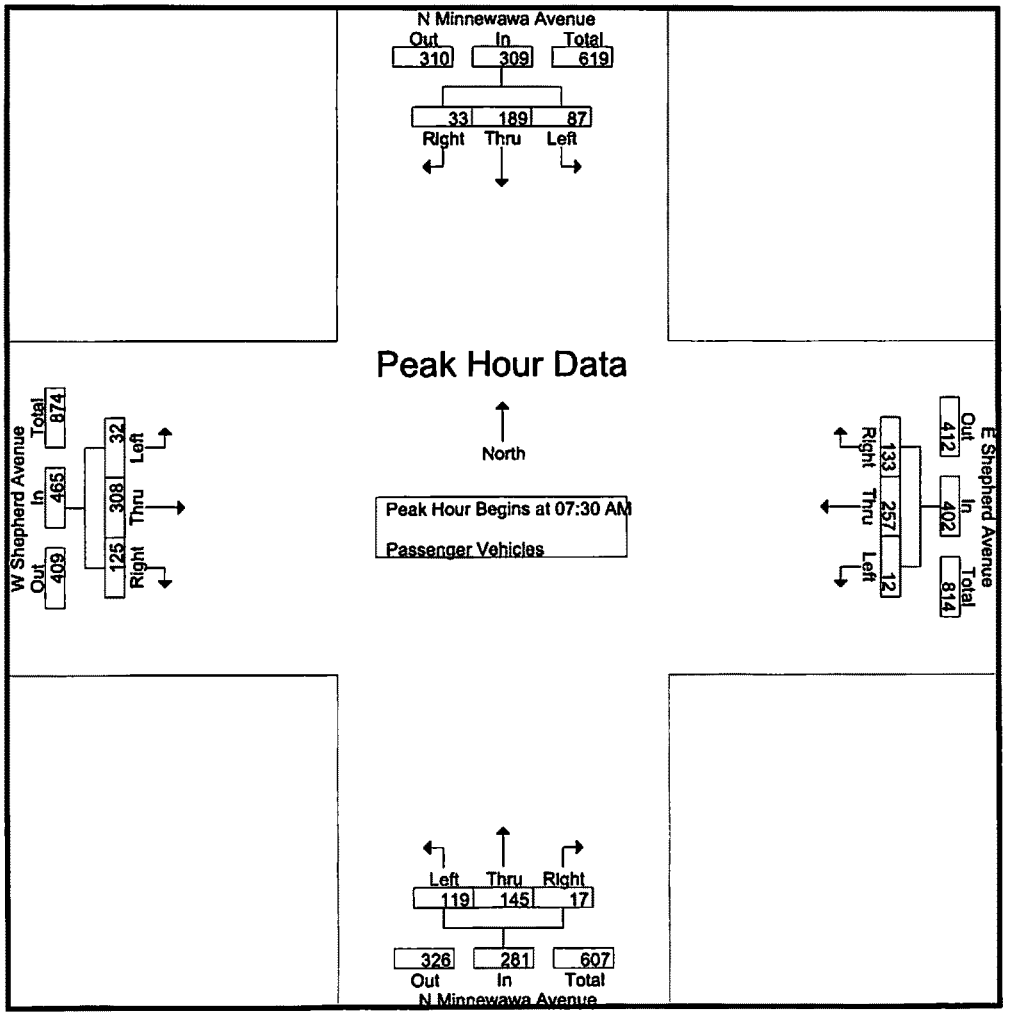
y of Clovis
S: N Minnewawa Avenue
V: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 5 | 43 | 8 | 56 | 1 | 76 | 33 | 110 | 27 | 35 | 3 | 65 | 2 | 80 | 44 | 126 |
| +15 mins. | 46 | 51 | 13 | 110 | 6 | 69 | 27 | 102 | 29 | 27 | 5 | 61 | 8 | 93 | 31 | 132 |
| +30 mins. | 21 | 46 | 6 | 73 | 2 | 58 | 36 | 96 | 30 | 39 | 3 | 72 | 10 | 72 | 22 | 104 |
| +45 mins. | 15 | 49 | 6 | 70 | 3 | 54 | 37 | 94 | 33 | 44 | 6 | 83 | 12 | 63 | 28 | 103 |
| Total Volume | 87 | 189 | 33 | 309 | 12 | 257 | 133 | 402 | 119 | 145 | 17 | 281 | 32 | 308 | 125 | 465 |
| % App. Total | 28.2 | 61.2 | 10.7 | | 3 | 63.9 | 33.1 | | 42.3 | 51.6 | 6 | | 6.9 | 66.2 | 26.9 | |
| PHF | .473 | .926 | .635 | .702 | .500 | .845 | .899 | .914 | .902 | .824 | .708 | .846 | .667 | .828 | .710 | .881 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 1 | 0 | 3 | 0 | 2 | 0 | 2 | 6 |
| 07:30 AM | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 6 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 |
| Total | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 3 | 3 | 2 | 0 | 5 | 0 | 6 | 0 | 6 | 15 |
| 08:00 AM | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 7 |
| 08:15 AM | 3 | 1 | 0 | 4 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 8 |
| 08:30 AM | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 4 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| Total | 4 | 1 | 1 | 6 | 1 | 2 | 2 | 5 | 0 | 1 | 0 | 1 | 0 | 6 | 3 | 9 | 21 |
| Grand Total | 4 | 2 | 1 | 7 | 1 | 5 | 2 | 8 | 3 | 3 | 0 | 6 | 0 | 12 | 3 | 15 | 36 |
| Apprch % | 57.1 | 28.6 | 14.3 | | 12.5 | 62.5 | 25 | | 50 | 50 | 0 | | 0 | 80 | 20 | | |
| Total % | 11.1 | 5.6 | 2.8 | 19.4 | 2.8 | 13.9 | 5.6 | 22.2 | 8.3 | 8.3 | 0 | 16.7 | 0 | 33.3 | 8.3 | 41.7 | |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 6 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 |
| 08:00 AM | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 7 |
| 08:15 AM | 3 | 1 | 0 | 4 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 8 |
| Total Volume | 4 | 2 | 0 | 6 | 1 | 4 | 1 | 6 | 0 | 1 | 0 | 1 | 0 | 7 | 3 | 10 | 23 |
| % App. Total | 66.7 | 33.3 | 0 | | 16.7 | 66.7 | 16.7 | | 0 | 100 | 0 | | 0 | 70 | 30 | | |
| PHF | .333 | .500 | .000 | .375 | .250 | .500 | .250 | .500 | .000 | .250 | .000 | .250 | .000 | .875 | .375 | .833 | .719 |

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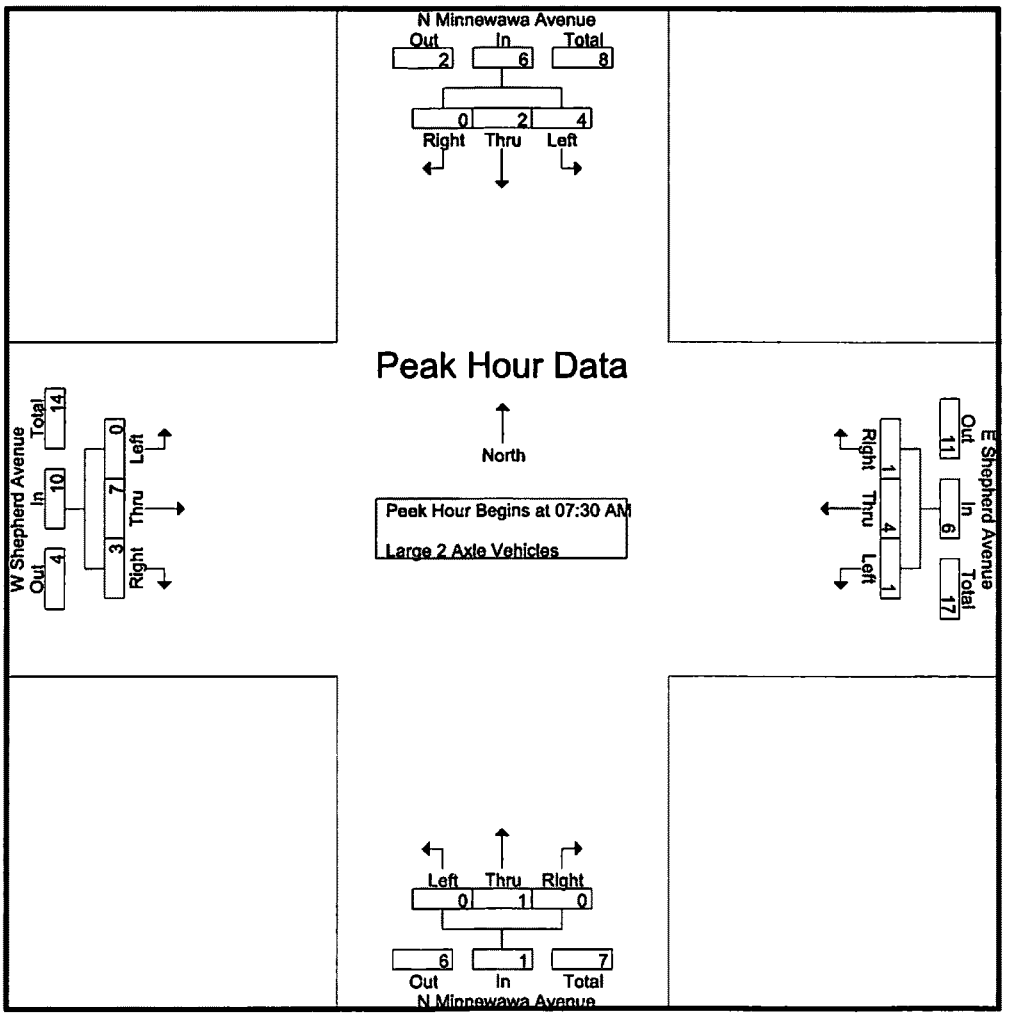
City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| +30 mins. | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 |
| +45 mins. | 3 | 1 | 0 | 4 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 |
| Total Volume | 4 | 2 | 0 | 6 | 1 | 4 | 1 | 6 | 0 | 1 | 0 | 1 | 0 | 7 | 3 | 10 |
| % App. Total | 66.7 | 33.3 | 0 | | 16.7 | 66.7 | 16.7 | | 0 | 100 | 0 | | 0 | 70 | 30 | |
| PHF | .333 | .500 | .000 | .375 | .250 | .500 | .250 | .500 | .000 | .250 | .000 | .250 | .000 | .875 | .375 | .833 |

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Corona, CA 92878
(951) 268-6268

City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 07:15 AM | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 1 | 3 | 6 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 4 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| Total | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 4 | 0 | 1 | 0 | 1 | 1 | 4 | 2 | 7 | 13 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 1 | 0 | 2 | 4 |
| 08:15 AM | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 08:30 AM | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| Total | 1 | 0 | 1 | 2 | 1 | 1 | 4 | 6 | 0 | 1 | 1 | 2 | 1 | 2 | 0 | 3 | 13 |
| Grand Total | 1 | 0 | 2 | 3 | 2 | 3 | 5 | 10 | 0 | 2 | 1 | 3 | 2 | 6 | 2 | 10 | 26 |
| Apprch % | 33.3 | 0 | 66.7 | | 20 | 30 | 50 | | 0 | 66.7 | 33.3 | | 20 | 60 | 20 | | |
| Total % | 3.8 | 0 | 7.7 | 11.5 | 7.7 | 11.5 | 19.2 | 38.5 | 0 | 7.7 | 3.8 | 11.5 | 7.7 | 23.1 | 7.7 | 38.5 | |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | **2** | 0 | 2 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | **2** | 4 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | **1** | **2** | 1 | 1 | 0 | 2 | 4 |
| 08:15 AM | 0 | 0 | 1 | 1 | 1 | 1 | **2** | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **5** |
| Total Volume | 0 | 0 | 1 | 1 | 1 | 3 | 3 | 7 | 0 | 1 | 1 | 2 | 2 | 3 | 0 | 5 | 15 |
| % App. Total | 0 | 0 | 100 | | 14.3 | 42.9 | 42.9 | | 0 | 50 | 50 | | 40 | 60 | 0 | | |
| PHF | .000 | .000 | .250 | .250 | .250 | .375 | .375 | .438 | .000 | .250 | .250 | .250 | .500 | .750 | .000 | .625 | .750 |

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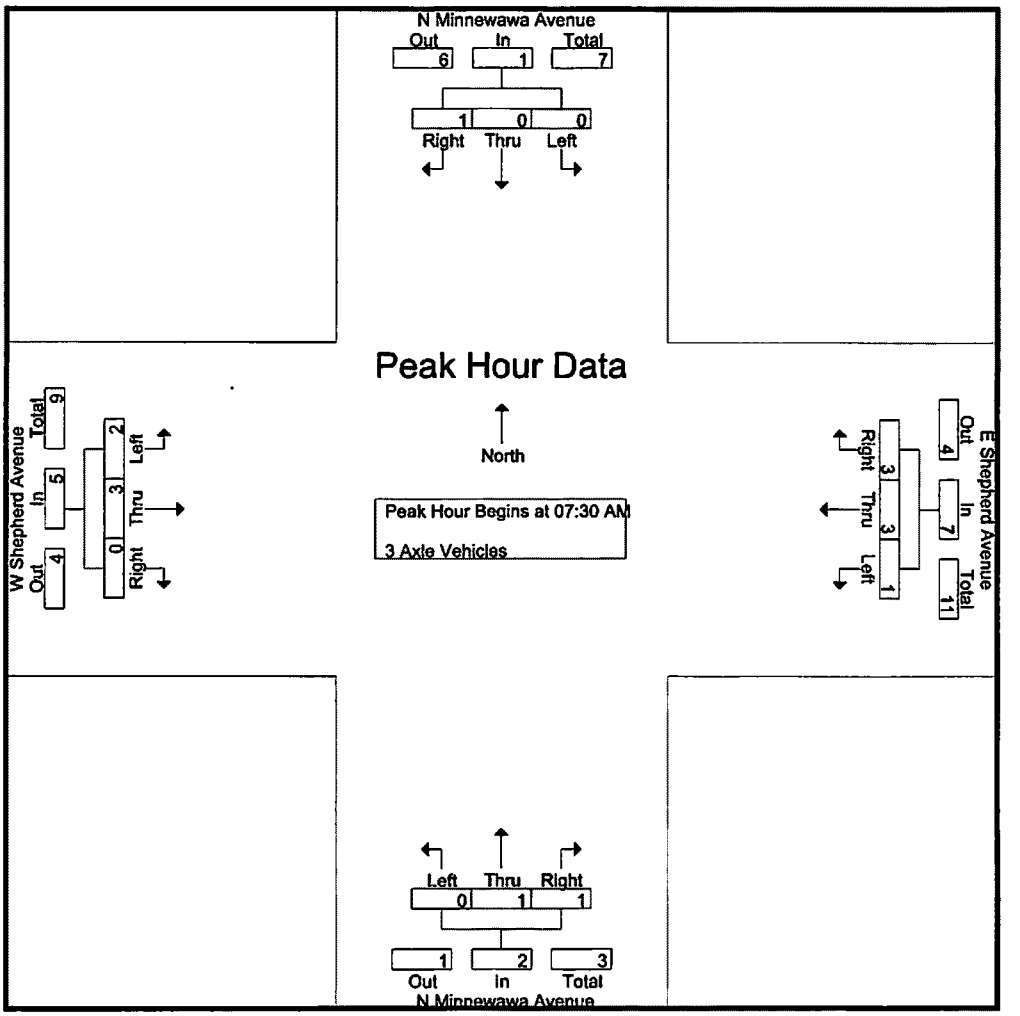
y of Clovis
S: N Minnewawa Avenue
W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | **2** | 0 | **2** | 0 | 0 | 0 | 0 | **1** | **1** | 0 | **2** |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | **1** | **2** | 1 | 1 | 0 | 2 |
| +45 mins. | 0 | 0 | **1** | **1** | **1** | 1 | **2** | **4** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 1 | 1 | 1 | 3 | 3 | 7 | 0 | 1 | 1 | 2 | 2 | 3 | 0 | 5 |
| % App. Total | 0 | 0 | 100 | | 14.3 | 42.9 | 42.9 | | 0 | 50 | 50 | | 40 | 60 | 0 | |
| PHF | .000 | .000 | .250 | .250 | .250 | .375 | .375 | .438 | .000 | .250 | .250 | .250 | .500 | .750 | .000 | .625 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 1 | 1 | 2 | 4 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 6 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Total | 1 | 1 | 2 | 4 | 0 | 1 | 1 | 2 | 1 | 2 | 0 | 3 | 0 | 0 | 1 | 1 | 10 |
| 08:00 AM | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 5 |
| 08:15 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 2 | 0 | 2 | 0 | 2 | 5 |
| 08:45 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 1 | 0 | 0 | 1 | 5 |
| Total | 1 | 2 | 0 | 3 | 0 | 2 | 0 | 2 | 3 | 6 | 1 | 10 | 1 | 2 | 0 | 3 | 18 |
| Grand Total | 2 | 3 | 2 | 7 | 0 | 3 | 1 | 4 | 4 | 8 | 1 | 13 | 1 | 2 | 1 | 4 | 28 |
| Apprch % | 28.6 | 42.9 | 28.6 | | 0 | 75 | 25 | | 30.8 | 61.5 | 7.7 | | 25 | 50 | 25 | | |
| Total % | 7.1 | 10.7 | 7.1 | 25 | 0 | 10.7 | 3.6 | 14.3 | 14.3 | 28.6 | 3.6 | 46.4 | 3.6 | 7.1 | 3.6 | 14.3 | |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 08:00 AM | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 5 |
| 08:15 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| Total Volume | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 1 | 5 | 0 | 6 | 0 | 0 | 0 | 0 | 9 |
| % App. Total | 0 | 100 | 0 | | 0 | 100 | 0 | | 16.7 | 83.3 | 0 | | 0 | 0 | 0 | | |
| PHF | .000 | .500 | .000 | .500 | .000 | .250 | .000 | .250 | .250 | .625 | .000 | .500 | .000 | .000 | .000 | .000 | .450 |

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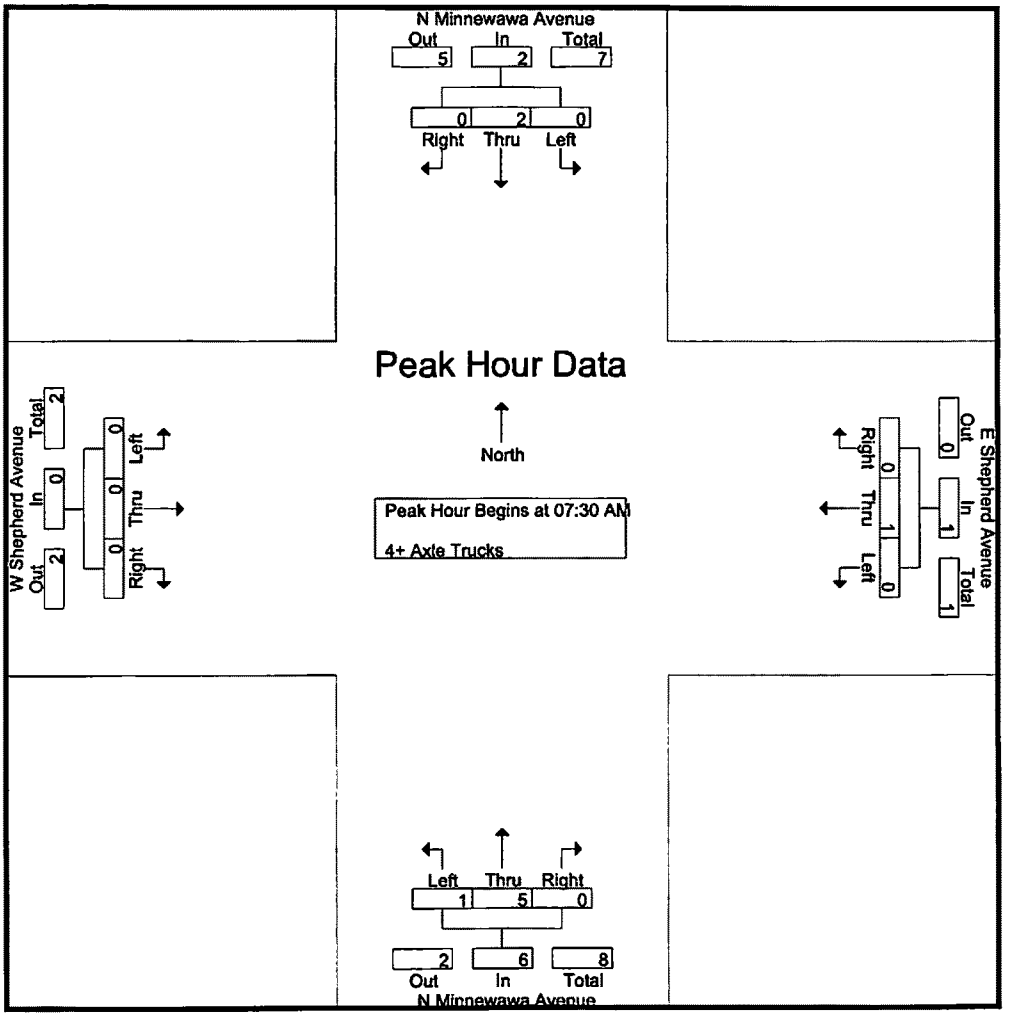
S: N Minnewawa Avenue
W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 1 | 5 | 0 | 6 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 100 | 0 | | 0 | 100 | 0 | | 16.7 | 83.3 | 0 | | 0 | 0 | 0 | |
| PHF | .000 | .500 | .000 | .500 | .000 | .250 | .000 | .250 | .250 | .625 | .000 | .500 | .000 | .000 | .000 | .000 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 16 | 38 | 5 | 59 | 1 | 61 | 31 | 93 | 20 | 43 | 4 | 67 | 9 | 72 | 22 | 103 | 322 |
| 04:15 PM | 14 | 44 | 6 | 64 | 0 | 50 | 25 | 75 | 29 | 38 | 5 | 72 | 7 | 85 | 23 | 115 | 326 |
| 04:30 PM | 17 | 34 | 6 | 57 | 2 | 63 | 28 | 93 | 34 | 34 | 5 | 73 | 9 | 83 | 31 | 123 | 346 |
| 04:45 PM | 18 | 45 | 8 | 71 | 3 | 56 | 21 | 80 | 33 | 45 | 5 | 83 | 14 | 53 | 19 | 86 | 320 |
| Total | 65 | 161 | 25 | 251 | 6 | 230 | 105 | 341 | 116 | 160 | 19 | 295 | 39 | 293 | 95 | 427 | 1314 |
| 05:00 PM | 13 | 45 | 9 | 67 | 1 | 63 | 19 | 83 | 33 | 35 | 7 | 75 | 11 | 70 | 18 | 99 | 324 |
| 05:15 PM | 10 | 46 | 13 | 69 | 2 | 67 | 22 | 91 | 35 | 51 | 6 | 92 | 12 | 72 | 31 | 115 | 367 |
| 05:30 PM | 10 | 43 | 6 | 59 | 1 | 57 | 22 | 80 | 34 | 60 | 7 | 101 | 11 | 79 | 33 | 123 | 363 |
| 05:45 PM | 15 | 35 | 8 | 58 | 2 | 53 | 25 | 80 | 27 | 59 | 4 | 90 | 10 | 74 | 29 | 113 | 341 |
| Total | 48 | 169 | 36 | 253 | 6 | 240 | 88 | 334 | 129 | 205 | 24 | 358 | 44 | 295 | 111 | 450 | 1395 |
| Grand Total | 113 | 330 | 61 | 504 | 12 | 470 | 193 | 675 | 245 | 365 | 43 | 653 | 83 | 588 | 206 | 877 | 2709 |
| Apprch % | 22.4 | 65.5 | 12.1 | | 1.8 | 69.6 | 28.6 | | 37.5 | 55.9 | 6.6 | | 9.5 | 67 | 23.5 | | |
| Total % | 4.2 | 12.2 | 2.3 | 18.6 | 0.4 | 17.3 | 7.1 | 24.9 | 9 | 13.5 | 1.6 | 24.1 | 3.1 | 21.7 | 7.6 | 32.4 | |
| Passengor Vehicles | 108 | 317 | 59 | 484 | 11 | 469 | 189 | 669 | 240 | 355 | 41 | 636 | 83 | 581 | 200 | 864 | 2653 |
| % Passengor Vehicles | 95.6 | 96.1 | 96.7 | 96 | 91.7 | 99.8 | 97.9 | 99.1 | 98 | 97.3 | 95.3 | 97.4 | 100 | 98.8 | 97.1 | 98.5 | 97.9 |
| Large 2 Axle Vehicles | 0 | 2 | 1 | 3 | 0 | 0 | 2 | 2 | 1 | 4 | 0 | 5 | 0 | 5 | 2 | 7 | 17 |
| % Large 2 Axle Vehicles | 0 | 0.6 | 1.6 | 0.6 | 0 | 0 | 1 | 0.3 | 0.4 | 1.1 | 0 | 0.8 | 0 | 0.9 | 1 | 0.8 | 0.6 |
| 3 Axle Vehicles | 2 | 5 | 0 | 7 | 1 | 0 | 2 | 3 | 3 | 2 | 1 | 6 | 0 | 2 | 2 | 4 | 20 |
| % 3 Axle Vehicles | 1.8 | 1.5 | 0 | 1.4 | 8.3 | 0 | 1 | 0.4 | 1.2 | 0.5 | 2.3 | 0.9 | 0 | 0.3 | 1 | 0.5 | 0.7 |
| 4+ Axle Trucks | 3 | 6 | 1 | 10 | 0 | 1 | 0 | 1 | 1 | 4 | 1 | 6 | 0 | 0 | 2 | 2 | 19 |
| % 4+ Axle Trucks | 2.7 | 1.8 | 1.6 | 2 | 0 | 0.2 | 0 | 0.1 | 0.4 | 1.1 | 2.3 | 0.9 | 0 | 0 | 1 | 0.2 | 0.7 |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 13 | 45 | 9 | 67 | 1 | 63 | 19 | 83 | 33 | 35 | 7 | 75 | 11 | 70 | 18 | 99 | 324 |
| 05:15 PM | 10 | **46** | **13** | **69** | **2** | **67** | 22 | **91** | **35** | 51 | 6 | 92 | **12** | 72 | 31 | 115 | **367** |
| 05:30 PM | 10 | 43 | 6 | 59 | 1 | 57 | 22 | 80 | 34 | **60** | 7 | **101** | 11 | **79** | **33** | **123** | 363 |
| 05:45 PM | **15** | 35 | 8 | 58 | 2 | 53 | **25** | 80 | 27 | 59 | 4 | 90 | 10 | 74 | 29 | 113 | 341 |
| Total Volume | 48 | 169 | 36 | 253 | 6 | 240 | 88 | 334 | 129 | 205 | 24 | 358 | 44 | 295 | 111 | 450 | 1395 |
| % App. Total | 19 | 66.8 | 14.2 | | 1.8 | 71.9 | 26.3 | | 36 | 57.3 | 6.7 | | 9.8 | 65.6 | 24.7 | | |
| PHF | .800 | .918 | .692 | .917 | .750 | .896 | .880 | .918 | .921 | .854 | .857 | .886 | .917 | .934 | .841 | .915 | .950 |

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S: N Minnewawa Avenue
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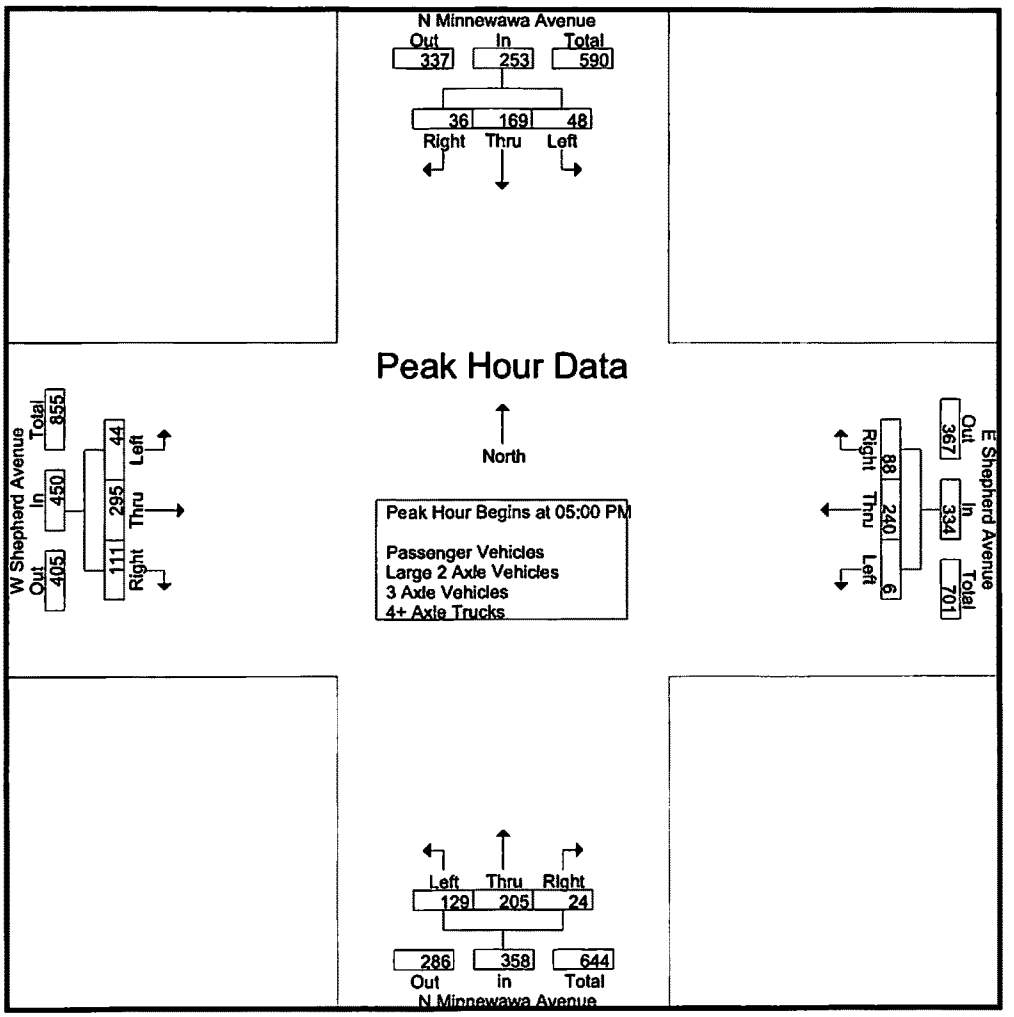
Page No : 2




Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:45 PM | | | | 04:30 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 18 | 45 | 8 | 71 | 2 | 63 | 28 | 93 | 33 | 35 | 7 | 75 | 11 | 70 | 18 | 99 |
| +15 mins. | 13 | 45 | 9 | 67 | 3 | 56 | 21 | 80 | 35 | 51 | 6 | 92 | 12 | 72 | 31 | 115 |
| +30 mins. | 10 | 46 | 13 | 69 | 1 | 63 | 19 | 83 | 34 | 60 | 7 | 101 | 11 | 79 | 33 | 123 |
| +45 mins. | 10 | 43 | 6 | 59 | 2 | 67 | 22 | 91 | 27 | 59 | 4 | 90 | 10 | 74 | 29 | 113 |
| Total Volume | 51 | 179 | 36 | 266 | 8 | 249 | 90 | 347 | 129 | 205 | 24 | 358 | 44 | 295 | 111 | 450 |
| % App. Total | 19.2 | 67.3 | 13.5 | | 2.3 | 71.8 | 25.9 | | 36 | 57.3 | 6.7 | | 9.8 | 65.6 | 24.7 | |
| PHF | .708 | .973 | .692 | .937 | .667 | .929 | .804 | .933 | .921 | .854 | .857 | .886 | .917 | .934 | .841 | .915 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 15 | 35 | 5 | 55 | 1 | 61 | 29 | 91 | 20 | 40 | 4 | 64 | 9 | 69 | 22 | 100 | 310 |
| 04:15 PM | 14 | 40 | 4 | 58 | 0 | 50 | 25 | 75 | 29 | 37 | 5 | 71 | 7 | 83 | 21 | 111 | 315 |
| 04:30 PM | 16 | 34 | 6 | 56 | 2 | 63 | 27 | 92 | 33 | 33 | 4 | 70 | 9 | 82 | 28 | 119 | 337 |
| 04:45 PM | 17 | 44 | 8 | 69 | 2 | 56 | 20 | 78 | 32 | 44 | 5 | 81 | 14 | 52 | 19 | 85 | 313 |
| Total | 62 | 153 | 23 | 238 | 5 | 230 | 101 | 336 | 114 | 154 | 18 | 286 | 39 | 286 | 90 | 415 | 1275 |
| 05:00 PM | 13 | 44 | 9 | 66 | 1 | 63 | 19 | 83 | 32 | 34 | 7 | 73 | 11 | 70 | 18 | 99 | 321 |
| 05:15 PM | 10 | 45 | 13 | 68 | 2 | 66 | 22 | 90 | 35 | 51 | 6 | 92 | 12 | 72 | 31 | 115 | 365 |
| 05:30 PM | 8 | 42 | 6 | 56 | 1 | 57 | 22 | 80 | 32 | 57 | 6 | 95 | 11 | 79 | 32 | 122 | 353 |
| 05:45 PM | 15 | 33 | 8 | 56 | 2 | 53 | 25 | 80 | 27 | 59 | 4 | 90 | 10 | 74 | 29 | 113 | 339 |
| Total | 46 | 164 | 36 | 246 | 6 | 239 | 88 | 333 | 126 | 201 | 23 | 350 | 44 | 295 | 110 | 449 | 1378 |
| Grand Total | 108 | 317 | 59 | 484 | 11 | 469 | 189 | 669 | 240 | 355 | 41 | 636 | 83 | 581 | 200 | 864 | 2653 |
| Apprch % | 22.3 | 65.5 | 12.2 | | 1.6 | 70.1 | 28.3 | | 37.7 | 55.8 | 6.4 | | 9.6 | 67.2 | 23.1 | | |
| Total % | 4.1 | 11.9 | 2.2 | 18.2 | 0.4 | 17.7 | 7.1 | 25.2 | 9 | 13.4 | 1.5 | 24 | 3.1 | 21.9 | 7.5 | 32.6 | |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 13 | 44 | 9 | 66 | 1 | 63 | 19 | 83 | 32 | 34 | 7 | 73 | 11 | 70 | 18 | 99 | 321 |
| 05:15 PM | 10 | 45 | 13 | 68 | 2 | 66 | 22 | 90 | 35 | 51 | 6 | 92 | 12 | 72 | 31 | 115 | 365 |
| 05:30 PM | 8 | 42 | 6 | 56 | 1 | 57 | 22 | 80 | 32 | 57 | 6 | 95 | 11 | 79 | 32 | 122 | 353 |
| 05:45 PM | 15 | 33 | 8 | 56 | 2 | 53 | 25 | 80 | 27 | 59 | 4 | 90 | 10 | 74 | 29 | 113 | 339 |
| Total Volume | 46 | 164 | 36 | 246 | 6 | 239 | 88 | 333 | 126 | 201 | 23 | 350 | 44 | 295 | 110 | 449 | 1378 |
| % App. Total | 18.7 | 66.7 | 14.6 | | 1.8 | 71.8 | 26.4 | | 36 | 57.4 | 6.6 | | 9.8 | 65.7 | 24.5 | | |
| PHF | .767 | .911 | .692 | .904 | .750 | .905 | .880 | .925 | .900 | .852 | .821 | .921 | .917 | .934 | .859 | .920 | .944 |

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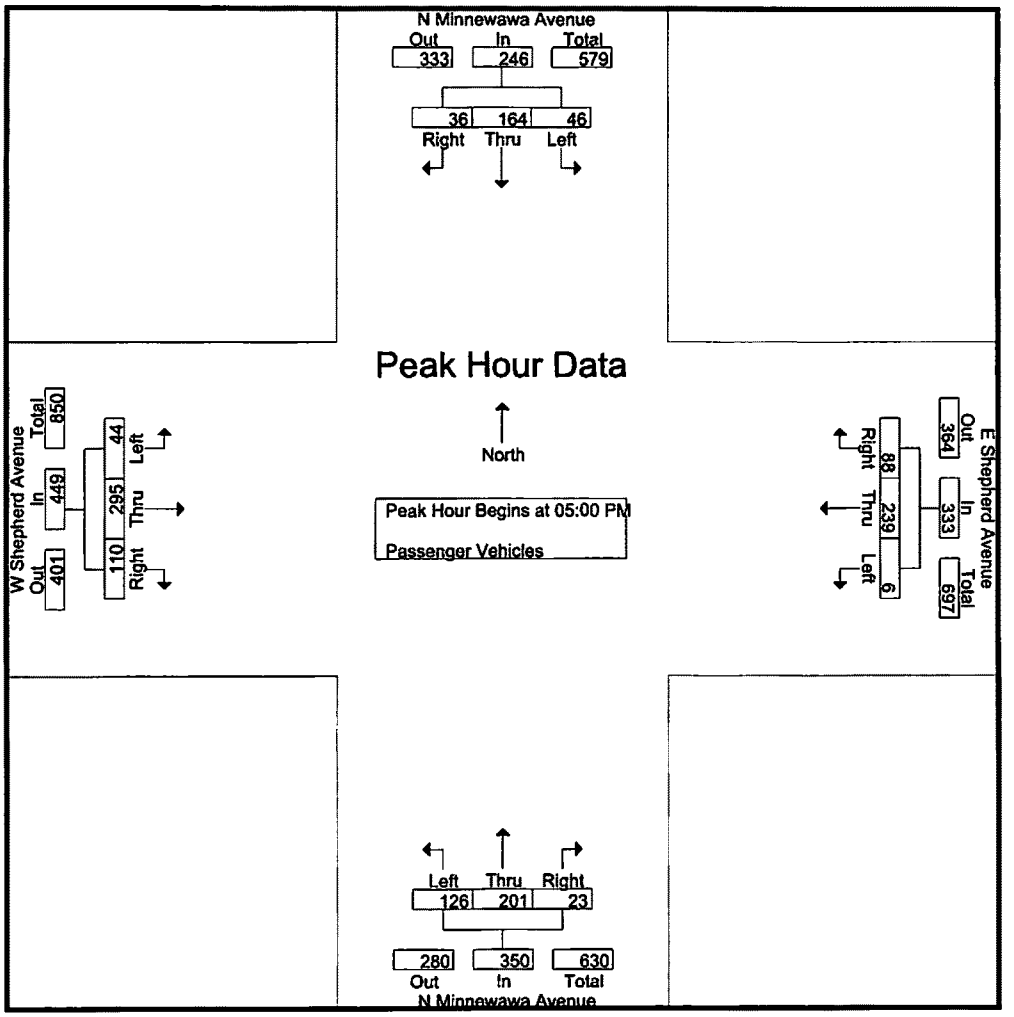
of Clovis
: N Minnewawa Avenue
: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 13 | 44 | 9 | 66 | 1 | 63 | 19 | 83 | 32 | 34 | 7 | 73 | 11 | 70 | 18 | 99 |
| +15 mins. | 10 | 45 | 13 | 68 | 2 | 66 | 22 | 90 | 35 | 51 | 6 | 92 | 12 | 72 | 31 | 115 |
| +30 mins. | 8 | 42 | 6 | 56 | 1 | 57 | 22 | 80 | 32 | 57 | 6 | 95 | 11 | 79 | 32 | 122 |
| +45 mins. | 15 | 33 | 8 | 56 | 2 | 53 | 25 | 80 | 27 | 59 | 4 | 90 | 10 | 74 | 29 | 113 |
| Total Volume | 46 | 164 | 36 | 246 | 6 | 239 | 88 | 333 | 126 | 201 | 23 | 350 | 44 | 295 | 110 | 449 |
| % App. Total | 18.7 | 66.7 | 14.6 | | 1.8 | 71.8 | 26.4 | | 36 | 57.4 | 6.6 | | 9.8 | 65.7 | 24.5 | |
| PHF | .767 | .911 | .692 | .904 | .750 | .905 | .880 | .925 | .900 | .852 | .821 | .921 | .917 | .934 | .859 | .920 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 4 |
| 04:15 PM | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 4 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| Total | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 1 | 0 | 5 | 1 | 6 | 10 |
| 05:00 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 0 | 0 | 1 | 1 | 5 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 0 | 0 | 1 | 1 | 7 |
| Grand Total | 0 | 2 | 1 | 3 | 0 | 0 | 2 | 2 | 1 | 4 | 0 | 5 | 0 | 5 | 2 | 7 | 17 |
| Apprch % | 0 | 66.7 | 33.3 | | 0 | 0 | 100 | | 20 | 80 | 0 | | 0 | 71.4 | 28.6 | | |
| Total % | 0 | 11.8 | 5.9 | 17.6 | 0 | 0 | 11.8 | 11.8 | 5.9 | 23.5 | 0 | 29.4 | 0 | 29.4 | 11.8 | 41.2 | |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 0 | 0 | 1 | 1 | 5 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 0 | 0 | 1 | 1 | 7 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 25 | 75 | 0 | | 0 | 0 | 100 | | |
| PHF | .000 | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .250 | .250 | .000 | .250 | .000 | .000 | .250 | .250 | .350 |

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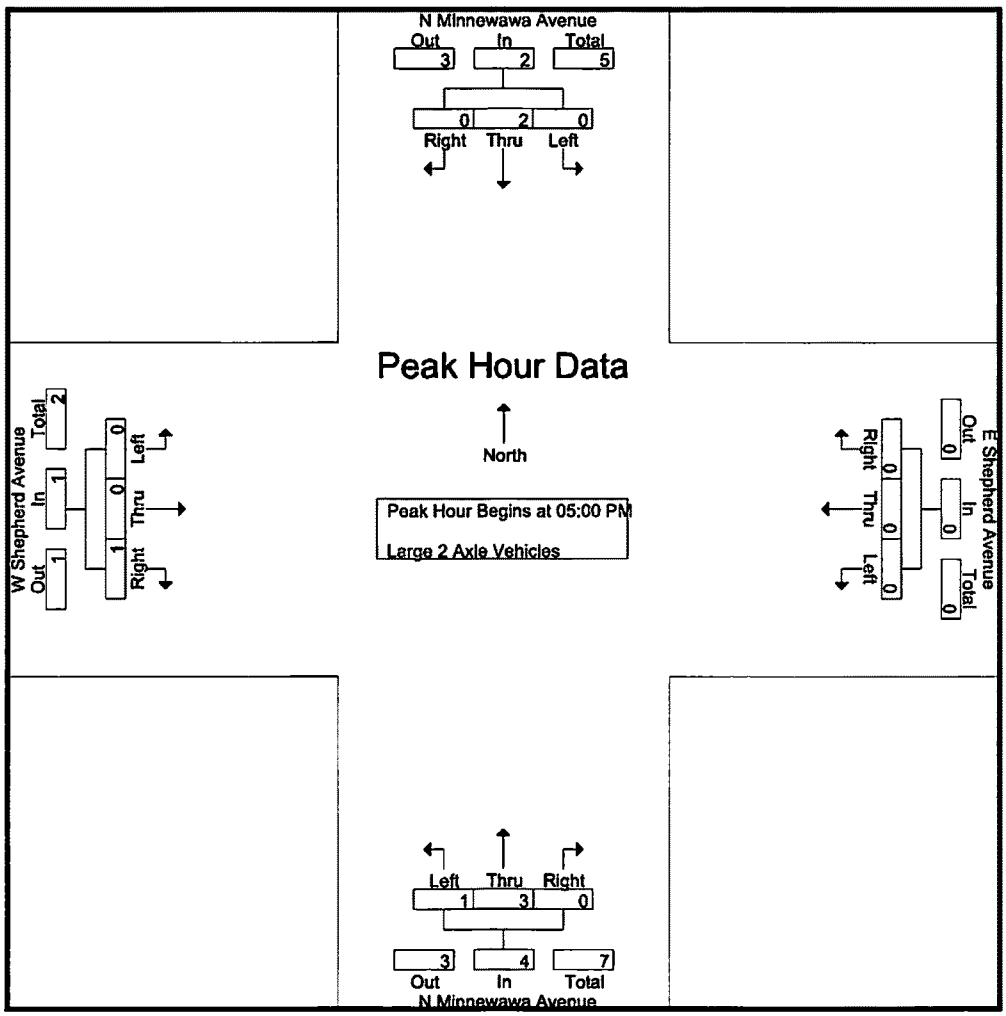
S: N Minnewawa Avenue
W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 0 | 0 | 1 | 1 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 0 | 0 | 1 | 1 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 25 | 75 | 0 | | 0 | 0 | 100 | |
| PHF | .000 | .500 | .000 | .500 | .000 | .000 | .000 | .000 | .250 | .250 | .000 | .250 | .000 | .000 | .250 | .250 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 5 |
| 04:15 PM | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 04:30 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 3 | 5 |
| 04:45 PM | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 1 | 4 | 0 | 5 | 1 | 0 | 2 | 3 | 1 | 1 | 0 | 2 | 0 | 2 | 2 | 4 | 14 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 4 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 6 |
| Grand Total | 2 | 5 | 0 | 7 | 1 | 0 | 2 | 3 | 3 | 2 | 1 | 6 | 0 | 2 | 2 | 4 | 20 |
| Apprch % | 28.6 | 71.4 | 0 | | 33.3 | 0 | 66.7 | | 50 | 33.3 | 16.7 | | 0 | 50 | 50 | | |
| Total % | 10 | 25 | 0 | 35 | 5 | 0 | 10 | 15 | 15 | 10 | 5 | 30 | 0 | 10 | 10 | 20 | |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 4 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 6 |
| % App. Total | 50 | 50 | 0 | | 0 | 0 | 0 | | 50 | 25 | 25 | | 0 | 0 | 0 | | |
| PHF | .250 | .250 | .000 | .250 | .000 | .000 | .000 | .000 | .500 | .250 | .250 | .500 | .000 | .000 | .000 | .000 | .375 |

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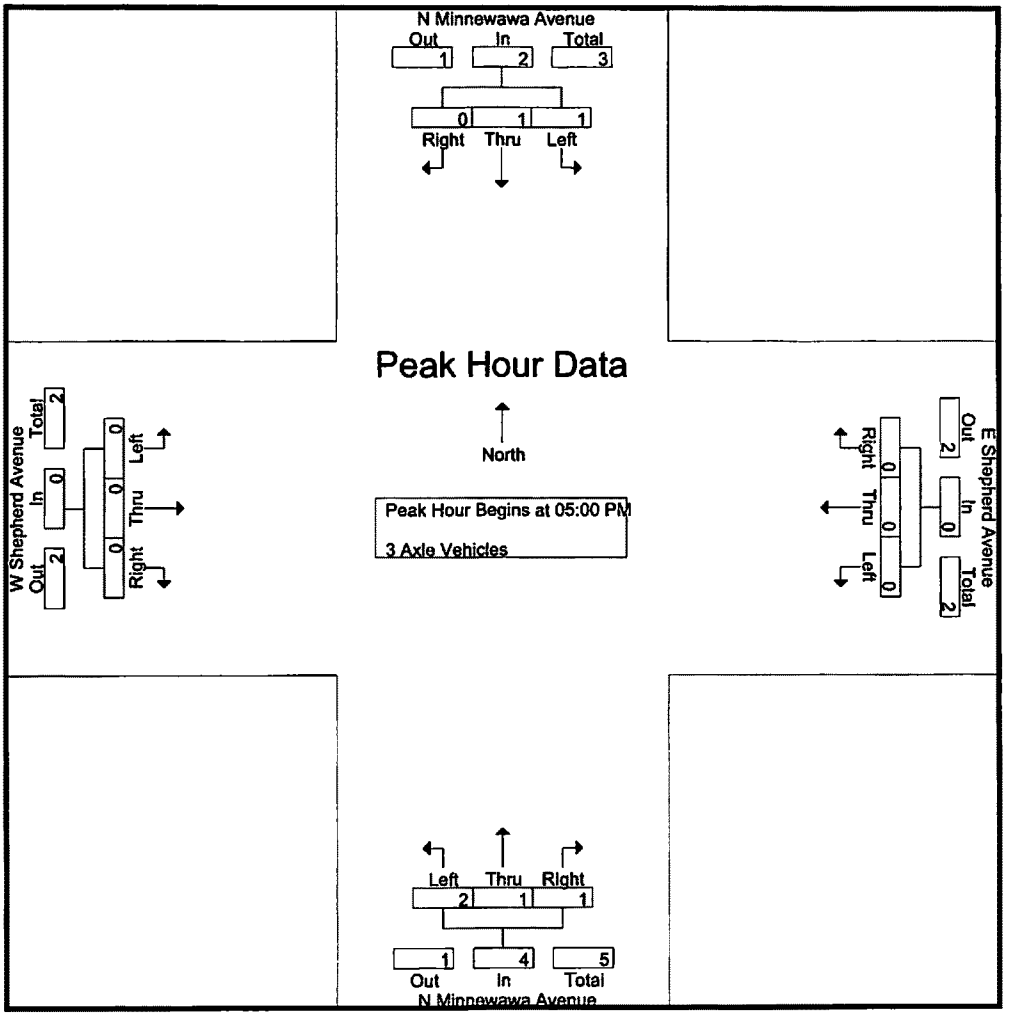
S: N Minnewawa Avenue
V: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 4 | 0 | 0 | 0 | 0 |
| % App. Total | 50 | 50 | 0 | | 0 | 0 | 0 | | 50 | 25 | 25 | | 0 | 0 | 0 | |
| PHF | .250 | .250 | .000 | .250 | .000 | .000 | .000 | .000 | .500 | .250 | .250 | .500 | .000 | .000 | .000 | .000 |

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 04:15 PM | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 5 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 1 | 3 |
| 04:45 PM | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 4 |
| Total | 2 | 4 | 1 | 7 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 6 | 0 | 0 | 2 | 2 | 15 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:30 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 1 | 2 | 0 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Grand Total | 3 | 6 | 1 | 10 | 0 | 1 | 0 | 1 | 1 | 4 | 1 | 6 | 0 | 0 | 2 | 2 | 19 |
| Apprch % | 30 | 60 | 10 | | 0 | 100 | 0 | | 16.7 | 66.7 | 16.7 | | 0 | 0 | 100 | | |
| Total % | 15.8 | 31.6 | 5.3 | 52.6 | 0 | 5.3 | 0 | 5.3 | 5.3 | 21.1 | 5.3 | 31.6 | 0 | 0 | 10.5 | 10.5 | |

| | N Minnewawa Avenue Southbound | | | | E Shepherd Avenue Westbound | | | | N Minnewawa Avenue Northbound | | | | W Shepherd Avenue Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:30 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total Volume | 1 | 2 | 0 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| % App. Total | 33.3 | 66.7 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | |
| PHF | .250 | .250 | .000 | .375 | .000 | .250 | .000 | .250 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .500 |

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y of Clovis
S: N Minnewawa Avenue
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File Name : 06_CVS_Min_Shep PM
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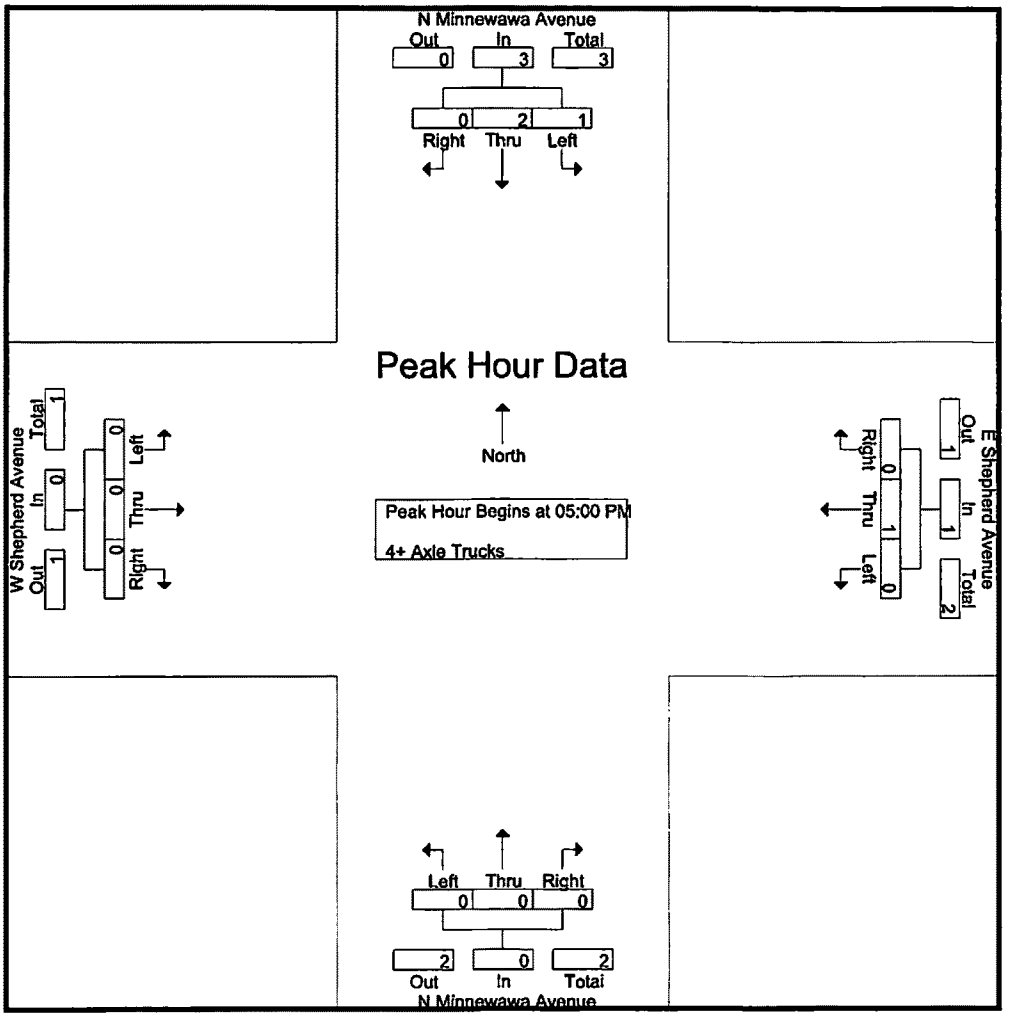
Start Date : 5/23/2024
Page No : 2




Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 1 | 2 | 0 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 33.3 | 66.7 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | |
| PHF | .250 | .250 | .000 | .375 | .000 | .250 | .000 | .250 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

Location: Fresno
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue

Date: 5/23/2024
Day: Thursday

**PEDESTRIANS**

| | North Leg<br>N Minnewawa Avenue | East Leg<br>Shepherd Avenue | South Leg<br>N Minnewawa Avenue | West Leg<br>Shepherd Avenue | |
|---|---|---|---|---|---|
| | Pedestrians | Pedestrians | Pedestrians | Pedestrians | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 1 | 0 | 1 |
| 7:45 AM | 0 | 0 | 1 | 0 | 1 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 1 | 0 | 1 | 0 | 2 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 1 | 0 | 1 |
| TOTAL VOLUMES: | 1 | 0 | 4 | 0 | 5 |

| | North Leg<br>N Minnewawa Avenue | East Leg<br>Shepherd Avenue | South Leg<br>N Minnewawa Avenue | West Leg<br>Shepherd Avenue | |
|---|---|---|---|---|---|
| | Pedestrians | Pedestrians | Pedestrians | Pedestrians | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 2 | 0 | 2 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 2 | 0 | 2 |

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Location: Fresno
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue

Date: 5/23/2024
Day: Thursday

**BICYCLES**

| | Southbound N Minnewawa Avenue | | | Westbound Shepherd Avenue | | | Northbound N Minnewawa Avenue | | | Eastbound Shepherd Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 |
| TOTAL VOLUMES: | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 6 |

| | Southbound N Minnewawa Avenue | | | Westbound Shepherd Avenue | | | Northbound N Minnewawa Avenue | | | Eastbound Shepherd Avenue | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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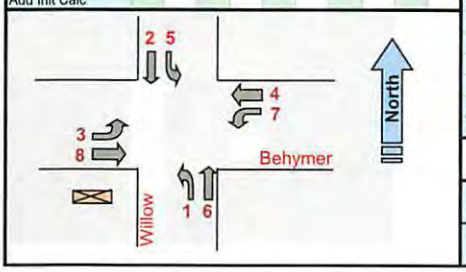
| Movement | NL | ST | EL | WT | SL | NT | WL | ET | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Times [1.1.1]** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Min Green | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | |
| Gap, Ext | 2 | 5.8 | 2 | 5.1 | 2 | 5.8 | 2 | 3.5 | | |
| Max 1 | 20 | 45 | 20 | 30 | 20 | 45 | 20 | 30 | | |
| Max 2 | 12 | 35 | 12 | 20 | 12 | 35 | 12 | 20 | | |
| Yel Clearance | 4.3 | 4.7 | 5.2 | 5.5 | 4.3 | 4.7 | 3.6 | 5.5 | | |
| Red Clearance | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Walk | | 5 | | 5 | | 5 | | 5 | | |
| Ped Clearance | | 32 | | 38 | | 30 | | 36 | | |
| Red Revert | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| Add Initial | | | | | | | | | | |
| Max Initial | | | | | | | | | | |
| Time B4 Reduct | | 8 | | 8 | | 8 | | 8 | | |
| Cars B4 Reduct | | | | | | | | | | |
| Time To Reduce | | 25 | | 15 | | 25 | | 15 | | |
| Reduce By | | | | | | | | | | |
| Min Gap | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| DyMaxLim | | | | | | | | | | |
| Max Step | | | | | | | | | | |
| **Options [1.1.2]** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Enable | X | X | X | X | X | X | X | X | | |
| Min Recall | | | | | | | | | | |
| Max Recall | | | | | | | | | | |
| Ped Recall | | | | | | | | | | |
| Soft Recall | | X | | | | X | | | | |
| Lock Calls | | | | | | | | | | |
| Auto Flash Entry | | | | | | | | | | |
| Auto Flash Exit | | | | | | | | | | |
| Dual Entry | | X | | X | | X | | X | | |
| Enable Simul Gap | | | | | | | | | | |
| Gaurantee Passage | | | | | | | | | | |
| Rest In Walk | | | | | | | | | | |
| Conditonal Service | | | | | | | | | | |
| Non-Actuated 1 | | | | | | | | | | |
| Non-Actuated 2 | | | | | | | | | | |
| Add Init Calc | | | | | | | | | | |




**Phase Options+ [1.1.3]**

| Options+ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Reservice | | | | | | | | | | |
| PedClr Thru Yel | | | | | | | | | | |
| SkipRed-NoCall | | | | | | | | | | |
| Red Rest | | | | | | | | | | |
| Max II | | | | | | | | | | |
| *Max III | | | | | | | | | | |
| Max Inhibit | | | | | | | | | | |
| Ped Delay | | | | | | | | | | |
| Red Rest on Gap | | | | | | | | | | |
| Conflicting Phase | | | | | | | | | | |
| Grn/Ped Delay | | | | | | | | | | |
| Omit Yel, Yel P | | | | | | | | | | |
| Ped Out/Olp Ped | | | | | | | | | | |
| StartYel, Next P | | | | | | | | | | |
| *StartupVehCall | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| *StartupPedCall | | | | | | | | | | |

**Phase Concurrency [1.1.4]**

| Phase | Ring | StartUp | Concurrent Phases | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | RED | 5 | 6 | 0 | 0 | | | | |
| 2 | 1 | GREEN | 5 | 6 | 0 | 0 | | | | |
| 3 | 1 | RED | 7 | 8 | 0 | 0 | | | | |
| 4 | 1 | RED | 7 | 8 | 0 | 0 | | | | |
| 5 | 2 | RED | 1 | 2 | 0 | 0 | | | | |
| 6 | 2 | GREEN | 1 | 2 | 0 | 0 | | | | |
| 7 | 2 | RED | 3 | 4 | 0 | 0 | | | | |
| 8 | 2 | RED | 3 | 4 | 0 | 0 | | | | |
| 9 | | RED | 0 | 0 | 0 | 0 | | | | |
| 10 | | RED | 0 | 0 | 0 | 0 | | | | |
| 11 | | RED | 0 | 0 | 0 | 0 | | | | |
| 12 | | RED | 0 | 0 | 0 | 0 | | | | |

**Comm Ports [6.6]**

| Channel | Port | Echo | Mode |
|---|---|---|---|
| Async 1 | SP1 | NONE | 0 |
| Async 2 | SP2 | NONE | 0 |
| Async 3 | SP8 | NONE | 0 |
| Async 4 | OFF | NONE | 0 |
| Sync 1 | SP5S | | |
| Sync 2 | OFF | | |
| TS2CVM | NONE | | |
| Opticom | NONE | | |
| GPS | NONE | | |

**Unit Params [1.2.1]**

| | | | |
|---|---|---|---|
| Screen Size | 8 | Metric | OFF |
| Startup Flash | 0 | Red Revert | 2 |
| MCE Timeout | 0 | Auto Ped Clear | OFF |
| Loc Fish Start | RSt | Display Time | 60 |
| Yellow < 3* | OFF | Tone Disable | ON |
| Allow Skip Yel | OFF | AudioPedTime | 0 |
| Start Red Tm | 6 | Phase Mode | STD8 |
| Startup Calls | UseProg | CNA FreeTime | 0 |
| TOD Dimming | OFF | Diamond Mode | 4Ph |
| ST over Prmpt | OFF | Free Ring Seq | 1 |
| Feature Profile | 1 | IO Mode | USER |
| Mx Seek TrkTm | 0 | Max Cyc Timer | 0 |
| Mx Seek Dwell | 0 | CycFlt Actn | ALARM |
| Prmpt/Ext Coor | EXT | Clmc Decide | OFF |
| Aux Switch | STOPTM | LPAlt Srs | 3-6 |
| *InhFYA Red St | OFF | Security Delay | 0 |
| RingA1go | 0 | | |

* - 76.12B or newer

**Times+ [1.1.7]**

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Walk2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BikeClr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GrnFlash | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SfClrMn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SfClrNoFlsh | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| NoPed Reserv | | | | | | | | |

**Comm [6.2]**

| Port | Baud Rate | FCM |
|---|---|---|
| 1 | 38400 | 6 |
| 2 | 9600 | 6 |
| 3 | 9600 | 6 |
| 4 | 9600 | 6 |

**Comm [6.5]**

| | | | | | Host IPs | | | |
|---|---|---|---|---|---|---|---|---|
| IP Address: | 10 | 53 | 26 | 131 | ATMS | | | |
| Mask: | 255 | 255 | 255 | 0 | 10 | 50 | 10 | 22 |
| Gateway: | 10 | 53 | 26 | 1 | SG | | | |
| Port #: | 5126 | | | | 0 | 0 | 0 | 0 |

City of FRESNO

**Phase Seq. (2 ring) Chart [1.2.4]**

| Seq # | Ring | Phases | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 2 | 3 | 4 | 0 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 | 0 |
| 2 | 1 | 1 | 2 | 3 | 4 | 0 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 | 0 |
| 3 | 1 | 2 | 1 | 3 | 4 | 0 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 | 0 |
| 4 | 1 | 2 | 1 | 3 | 4 | 0 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 | 0 |
| 5 | 1 | 1 | 2 | 3 | 4 | 0 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 | 0 |
| 6 | 1 | 1 | 2 | 3 | 4 | 0 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 | 0 |
| 7 | 1 | 2 | 1 | 3 | 4 | 0 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 | 0 |
| 8 | 1 | 2 | 1 | 3 | 4 | 0 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 | 0 |
| 9 | 1 | 1 | 2 | 4 | 3 | 0 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 | 0 |
| 10 | 1 | 1 | 2 | 4 | 3 | 0 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 | 0 |
| 11 | 1 | 2 | 1 | 4 | 3 | 0 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 | 0 |
| 12 | 1 | 2 | 1 | 4 | 3 | 0 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 | 0 |
| 13 | 1 | 1 | 2 | 4 | 3 | 0 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 | 0 |
| 14 | 1 | 1 | 2 | 4 | 3 | 0 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 | 0 |
| 15 | 1 | 2 | 1 | 4 | 3 | 0 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 | 0 |
| 16 | 1 | 2 | 1 | 4 | 3 | 0 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 | 0 |

**Advance Warning [1.1.9]**

| | Ph | Tm |
|---|---|---|
| Aux Out #1 | 0 | 0 |
| Aux Out #2 | 0 | 0 |

**NAME:** Behymer & Willow **ID:** 285 **Configuration:** Standard File

V76.12/13
Updated 12/6/17

| | | | |
|---|---|---|---|
| Prepared by: | JT | Date Installed / By: | 2/29/2020 (JT) |
| Checked by: | JT | Date Superseded: | |

Date Printed: 2/28/20

| [2.1] Coord Modes+ | |
|---|---|
| Test OpMode | 0 |
| Correction | SHRT/LNG |
| Maximum | MAX INH |
| Force Mode | FIXED |
| Flash Mode | CHANNEL |
| Coord Modes+ (Page 2) | |
| FreeonSeqCh | ON |
| Closed Loop | OFF |
| External | OFF |
| Latch Sec Frc | OFF |
| Stop-in-Walk | OFF |
| Ped Recycle | P1256_INH |
| Expand Splt | OFF |
| Easy Float | OFF |
| Auto Reset | ON |
| NTCIP Yield | + 0 |
| Leave Walk | |
| Before | TIMED |
| After | TIMED |

Intersection Name: Behymer & Willow

ID: 285

City of FRESNO

Date Printed: 2/28/2020

[2.4] Patterns

| Pat# | Cyc | Off | Split | Seq |
|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 1 |
| 2 | 0 | 0 | 2 | 1 |
| 3 | 0 | 0 | 3 | 1 |
| 4 | 0 | 0 | 4 | 1 |
| 5 | 0 | 0 | 5 | 1 |
| 6 | 0 | 0 | 6 | 1 |
| 7 | 0 | 0 | 7 | 1 |
| 8 | 0 | 0 | 8 | 1 |
| 9 | 0 | 0 | 9 | 1 |
| 10 | 0 | 0 | 10 | 1 |
| 11 | 0 | 0 | 0 | 1 |
| 12 | 0 | 0 | 0 | 1 |
| 13 | 0 | 0 | 0 | 1 |

[2.7.1-24] Splits

| Split | [2.7] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 2 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 3 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 4 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 5 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 6 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 7 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 8 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 9 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 10 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 11 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 12 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 13 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |

[2.5] Transition

| Pat# | Short | Long | Dwell | No Shortway Ø | | | | E-Yld | Offset | Ret Hold | Flt | Min Veh | Min Ped | MI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 2 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 3 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 4 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 5 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 6 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 7 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 8 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 9 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | OFF |
| 10 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | OFF |
| 11 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 12 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 13 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |

## [2.1] Coord Modes+

| | |
|---|---|
| Test OpMode | 0 |
| Correction | SHRT/LNG |
| Maximum | MAX INH |
| Force Mode | FIXED |
| Flash Mode | CHANNEL |

**Coord Modes+ (Page 2)**

| | |
|---|---|
| FreeonSeqCh | ON |
| Closed Loop | OFF |
| External | OFF |
| Latch Sec Frc | OFF |
| Stop-in-Walk | OFF |
| Ped Recycle | P1256_INH |
| Expand Split | OFF |
| Easy Float | OFF |
| Auto Reset | ON |
| NTCIP Yield | + 0 |

**Leave Walk**

| | |
|---|---|
| Before | TIMED |
| After | TIMED |

Intersection Name: Behymer & Willow

ID: 285

City of FRESNO

Date Printed: 2/28/2020

## [2.4] Patterns

| Pat# | Cyc | Off | Split | Seq |
|---|---|---|---|---|
| 20 | 0 | 0 | 0 | 1 |
| 21 | 0 | 0 | 0 | 1 |
| 22 | 0 | 0 | 0 | 1 |
| 23 | 0 | 0 | 0 | 1 |
| 24 | 0 | 0 | 0 | 1 |
| 25 | 0 | 0 | 0 | 1 |
| 26 | 0 | 0 | 0 | 1 |
| 27 | 0 | 0 | 0 | 1 |
| 28 | 0 | 0 | 0 | 1 |
| 29 | 0 | 0 | 0 | 1 |
| 30 | 0 | 0 | 0 | 1 |
| 31 | 0 | 0 | 0 | 1 |
| 32 | 0 | 0 | 0 | 1 |

## [2.7.1-24] Splits

| Split | [2.7] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 21 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 22 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 23 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 24 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 25 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 26 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 27 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 28 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 29 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 30 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 31 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 32 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |

## [2.5] Transition

| Pat# | Short | Long | Dwell | No Shortway Ø | | | | E-Yld | Offset | Ret Hold | Flt | Min Veh | Min Ped | MI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 21 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 22 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 23 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 24 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 25 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 26 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 27 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 28 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 29 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 30 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 31 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 32 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |

## [2.7.X.3] TSP Split Table

| Pat# | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 2 | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 2 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 3 | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 3 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 4 | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 4 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 5 | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 5 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |

## [2.9.2.(1-8)] Strategy Tables

**STRATEGY_1**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_2**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_3**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_4**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_5**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_6**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_7**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_8**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

| | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0 | 0 | 6 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 9 - FREE | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 9 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |

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## Overlap 1-8 Program Parms & Parm+ [1.5.2.1] [1.5.2.8]

| | | | |
|---|---|---|---|
| 1 | Included Ø | | NORMAL |
| | Modifier Ø | | Grn |
| | Conflict Ø | | Yel 3 |
| A | Conflict Olap | | Red 1 |
| | Conflict Ped | | |
| 2 | Included Ø | | NORMAL |
| | Modifier Ø | | Grn |
| | Conflict Ø | | Yel 3 |
| B | Conflict Olap | | Red 1 |
| | Conflict Ped | | |
| 3 | Included Ø | | NORMAL |
| | Modifier Ø | | Grn |
| | Conflict Ø | | Yel 3 |
| C | Conflict Olap | | Red 1 |
| | Conflict Ped | | |
| 4 | Included Ø | | NORMAL |
| | Modifier Ø | | Grn |
| | Conflict Ø | | Yel 3 |
| D | Conflict Olap | | Red 1 |
| | Conflict Ped | | |
| 5 | Included Ø | | NORMAL |
| | Modifier Ø | | Grn |
| | Conflict Ø | | Yel 3 |
| E | Conflict Olap | | Red 1 |
| | Conflict Ped | | |
| 6 | Included Ø | | NORMAL |
| | Modifier Ø | | Grn |
| | Conflict Ø | | Yel 3 |
| F | Conflict Olap | | Red 1 |
| | Conflict Ped | | |
| 7 | Included Ø | | NORMAL |
| | Modifier Ø | | Grn |
| | Conflict Ø | | Yel 3 |
| G | Conflict Olap | | Red 1 |
| | Conflict Ped | | |
| 8 | Included Ø | | NORMAL |
| | Modifier Ø | | Grn |
| | Conflict Ø | | Yel 3 |
| H | Conflict Olap | | Red 1 |
| | Conflict Ped | | |

## OLP GENERAL PARAMETERS [1.5.1]

| | |
|---|---|
| Lock Inhibit | OFF |
| Conflict Lock Enable | OFF |
| Parent P Clearance | ON |
| Xtra Incl Phases | OFF |
| InhibitLockInterval | Always |

## Channel Parameters [1.8.3]

| | |
|---|---|
| Pre Invert Rail Input | OFF |

## Preemption Options+ [3.Pre #.6]

| Pre # | Enable | Type | Output | Pattern | Skip | Co+Pre | Flash | Max/Min |
|---|---|---|---|---|---|---|---|---|
| 1 | OFF | RAIL | TS2 | | OFF | OFF | OFF | MAX |
| 2 | OFF | RAIL | TS2 | | OFF | OFF | OFF | MAX |
| 3 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 4 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 5 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 6 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |

## Preemption Times [3.#.1]

| Pre # | Delay | MinDura | MaxPres | MinGrn | MinWlk | PedClr | Track Grn | Min Dwell |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | 10 | 60 | 6 | | 33 | | 10 |
| 4 | | 10 | 60 | 6 | | 33 | | 10 |
| 5 | | 10 | 60 | 6 | | 33 | | 10 |
| 6 | | 10 | 60 | 6 | | 33 | | 10 |

## Preemption, Options [3.#.3]

| Pre # | Lock Input | Over-ride Auto Flash | Over-ride Higher Preempt | Flash Dwell | Link |
|---|---|---|---|---|---|
| 1 | OFF | OFF | OFF | ON | |
| 2 | OFF | OFF | OFF | OFF | |
| 3 | OFF | OFF | OFF | OFF | |
| 4 | OFF | OFF | OFF | OFF | |
| 5 | OFF | OFF | OFF | OFF | |
| 6 | OFF | OFF | OFF | OFF | |

## Preemption, Times+ [3.#.4]

| Pre No. | Extend Dwell | Return Max | Ped Clr | Yel | Red |
|---|---|---|---|---|---|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | 20 | 10 | 3.9 | 2 |
| 4 | | 20 | 10 | 3.9 | 2 |
| 5 | | 20 | 10 | 3.9 | 2 |
| 6 | | 20 | 10 | 3.9 | 2 |

Pre 1 = RR1
Pre 2 = RR2
Pre 3 = EVA
Pre 4 = EVB
Pre 5 = EVC
Pre 6 = EVD

## Phases [3.#.2] - set the Dwell Phases

| Pre # | Column | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Dwell Veh | | | | | | | | | | |
| | Peds | | | | | | | | | | |
| 2 | Dwell Veh | | | | | | | | | | |
| | Peds | | | | | | | | | | |
| 3 | Dwell Veh | 2 | 5 | | | | | | | | |
| | Peds | | | | | | | | | | |
| 4 | Dwell Veh | 4 | 7 | | | | | | | | |
| | Peds | | | | | | | | | | |
| 5 | Dwell Veh | 6 | 1 | | | | | | | | |
| | Peds | | | | | | | | | | |
| 6 | Dwell Veh | 8 | 3 | | | | | | | | |
| | Peds | | | | | | | | | | |

## Phases [3.#.2] - Trk Veh

| Pre # | Phases |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

## Exit Phases [3.#.2]

| No. | Exit Phase | |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | 2 | 5 |
| 4 | 4 | 7 |
| 5 | 1 | 6 |
| 6 | 3 | 8 |

## Overlaps+ [3.#.5]

| Pre # | | Preempt Overlaps + |
|---|---|---|
| 1 | Track | |
| | Dwell | |
| 2 | Track | |
| | Dwell | |
| 3 | Track | |
| | Dwell | |
| 4 | Track | |
| | Dwell | |
| 5 | Track | |
| | Dwell | |
| 6 | Track | |
| | Dwell | |

## Prog Parms+ (MM>1>5>2>X>3)

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

## OverlapB+: 1-A

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

## OverlapB+: 2-B

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

## OverlapB+: 3-C

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

## OverlapB+: 4-D

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

City of FRESNO

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Date Printed: 2/28/2020

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# CHANNEL SETTINGS [1.8] plus UNIT PARAMETERS [1.2.1]

## CHANNEL SETTINGS [1.8.1]

| Channel | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase / Olap # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 2 | 4 | 6 | 8 |
| Channel Type | VEH | VEH | VEH | VEH | VEH | VEH | VEH | VEH | OLP | OLP | OLP | OLP | PED | PED | PED | PED |
| Channel Flash | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | DRK | DRK | DRK | DRK |
| Flash 1-2 Hertz | | X | | X | | X | | X | | | | | | | | |
| | Page 1 | | | | | | | | Page 2 | | | | | | | |

## Chan Settings [1.8.2]

| Channel | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|
| Phase / Olap # | | | | | | | | |
| Channel Type | VEH | VEH | VEH | VEH | VEH | VEH | VEH | VEH |
| Channel Flash | DRK | DRK | DRK | DRK | DRK | DRK | DRK | DRK |

## CHANNEL PARMETERS [1.8.3]

| | |
|---|---|
| CH 17-24 Mapping: | DEFAULT |
| D-Conn Mapping: | NONE |
| Invert Rail Inputs: | OFF |
| C1-C11-ABC IO Mode: | USER |

## IO PARAMETERS [1.8.6]

| | |
|---|---|
| C1-C11-ABC IO Mode: | USER |
| D-Conn Mapping: | NONE |
| T & F BIU Mapping | DEFAULT |
| Invert Rail Inputs: | OFF |
| EVP Ped Confirm | OFF |

## CHANNELS+ [1.8.4]

| Channel | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flash Green | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Flash Red | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Flash Yellow | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Inh Red Fl In Preempt | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Olap Ovrd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Override Type | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**ID:** 285 **NAME:** Behymer & Willow

## I/O LOGIC [1.8.7]

**Prt Date:** 2/28/2020

| Row# | Result I/O | Result Fcn | = | Operand_1 Inv | Op1 Src | Op1 I/0 | Op1 Fun | Op1 Logic Func | Operand_2 Inv | Op2 Src | Op2 I/0 | Op2 Fun | Op2 Logic Func | Operand_3 Inv | Op3 Src | Op3 I/0 | Op3 Fun | Op3 Logic Func | Timer Dly | Timer Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 2 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 3 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 4 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 5 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 6 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 7 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 8 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 9 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 10 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |

## Ped Parms (MM>5>4)

| Det# | Call | No Act | Max Pres | Err Cnt |
|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 |
| 2 | 2 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 |
| 4 | 4 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 |
| 6 | 6 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 |
| 8 | 8 | 0 | 0 | 0 |

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| Veh Par 1-32 [5.1] | | | | | | | | | | | Vehicle Options 1-32 [5.2] | | | | | | | | | Parameters+ 1-32 [5.3] | | | | | | | | Info Only | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Det # | Input Slot | Call Ø | Swi Ø | Dlay | Ext | Que | No Act | Max Pres | Err Cnt | Fail Time | Det # | Call | Ext | Que | Add Init | Red Lock | Yell Lock | occ | vol | Det # | Occupancy G | Occupancy Y | Occupancy R | Delay 1 | Delay 2 | Type | Src | Dir | Det # |
| 1 | 1I1U | 1 | | | | | 0 | 0 | 0 | 255 | 1 | X | X | - | - | - | - | X | X | 1 | X | X | - | | | NORM | | NBL1 | 1 |
| 2 | 2I2U | 2 | | | | | 0 | 0 | 0 | 255 | 2 | - | X | - | - | - | - | X | X | 2 | X | X | - | | | NORM | | | 2 |
| 3 | 2I2L | 2 | | | 2 | | 0 | 0 | 0 | 255 | 3 | X | - | - | - | - | - | X | X | 3 | X | X | - | | | STOPB | | | 3 |
| 4 | 2I3U | 2 | | | 2 | | 0 | 0 | 0 | 255 | 4 | X | - | - | - | - | - | X | X | 4 | X | X | - | | | STOPB | | SBT3 | 4 |
| 5 | 2I3L | 2 | | | 2 | | 0 | 0 | 0 | 255 | 5 | X | - | - | - | - | - | X | X | 5 | X | X | - | | | STOPB | | SBR1 | 5 |
| 6 | 2I4U | 2 | | | 2 | | 0 | 0 | 0 | 255 | 6 | X | - | - | - | - | - | X | X | 6 | X | X | - | | | STOPB | | SBT1 | 6 |
| 7 | 3I5U | 3 | | | | | 0 | 0 | 0 | 255 | 7 | X | X | - | - | - | - | X | X | 7 | X | X | - | | | NORM | | EBL1 | 7 |
| 8 | 4I6U | 4 | | | | | 0 | 0 | 0 | 255 | 8 | - | X | - | - | - | - | X | X | 8 | X | X | - | | | NORM | | | 8 |
| 9 | 4I6L | 4 | | 10 | 2 | | 0 | 0 | 0 | 255 | 9 | X | - | - | - | - | - | X | X | 9 | X | X | - | | | STOPB | | | 9 |
| 10 | 4I7U | 4 | | | 2 | | 0 | 0 | 0 | 255 | 10 | X | - | - | - | - | - | X | X | 10 | X | X | - | | | STOPB | | | 10 |
| 11 | 4I7L | 4 | | 15 | 2 | | 0 | 0 | 0 | 255 | 11 | X | - | - | - | - | - | X | X | 11 | X | X | - | | | STOPB | | | 11 |
| 12 | 4I8U | 4 | | | 2 | | 0 | 0 | 0 | 255 | 12 | X | - | - | - | - | - | X | X | 12 | X | X | - | | | STOPB | | WBT1 | 12 |
| 13 | 1I9U | 1 | | | | | 0 | 0 | 0 | 255 | 13 | X | X | - | - | - | - | X | X | 13 | X | X | - | | | NORM | | | 13 |
| 14 | 3I9L | 3 | | | | | 0 | 0 | 0 | 255 | 14 | X | X | - | - | - | - | X | X | 14 | X | X | - | | | NORM | | | 14 |
| 15 | 5J1U | 5 | | | | | 0 | 0 | 0 | 255 | 15 | X | X | - | - | - | - | X | X | 15 | X | X | - | | | NORM | | SBL1 | 15 |
| 16 | 6J2U | 6 | | | | | 0 | 0 | 0 | 255 | 16 | - | X | - | - | - | - | X | X | 16 | X | X | - | | | NORM | | | 16 |
| 17 | 6J2L | 6 | | | 2 | | 0 | 0 | 0 | 255 | 17 | X | - | - | - | - | - | X | X | 17 | X | X | - | | | STOPB | | | 17 |
| 18 | 6J3U | 6 | | | 2 | | 0 | 0 | 0 | 255 | 18 | X | - | - | - | - | - | X | X | 18 | X | X | - | | | STOPB | | NBT3 | 18 |
| 19 | 6J3L | 6 | | | 2 | | 0 | 0 | 0 | 255 | 19 | X | - | - | - | - | - | X | X | 19 | X | X | - | | | STOPB | | NBR1 | 19 |
| 20 | 6J4U | 6 | | | 2 | | 0 | 0 | 0 | 255 | 20 | X | - | - | - | - | - | X | X | 20 | X | X | - | | | STOPB | | NBT1 | 20 |
| 21 | 7J5U | 7 | | | | | 0 | 0 | 0 | 255 | 21 | X | X | - | - | - | - | X | X | 21 | X | X | - | | | NORM | | WBL1 | 21 |
| 22 | 8J6U | 8 | | | | | 0 | 0 | 0 | 255 | 22 | - | X | - | - | - | - | X | X | 22 | X | X | - | | | NORM | | | 22 |
| 23 | 8J6L | 8 | | | 2 | | 0 | 0 | 0 | 255 | 23 | X | - | - | - | - | - | X | X | 23 | X | X | - | | | STOPB | | | 23 |
| 24 | 8J7U | 8 | | | 2 | | 0 | 0 | 0 | 255 | 24 | X | - | - | - | - | - | X | X | 24 | X | X | - | | | STOPB | | EBT3 | 24 |
| 25 | 8J7L | 8 | | 15 | 2 | | 0 | 0 | 0 | 255 | 25 | X | - | - | - | - | - | X | X | 25 | X | X | - | | | STOPB | | EBR1 | 25 |
| 26 | 8J8U | 8 | | | 2 | | 0 | 0 | 0 | 255 | 26 | X | - | - | - | - | - | X | X | 26 | X | X | - | | | STOPB | | EBT1 | 26 |
| 27 | 5J9U | 5 | | | | | 0 | 0 | 0 | 255 | 27 | X | X | - | - | - | - | X | X | 27 | X | X | - | | | NORM | | | 27 |
| 28 | 7J9L | 7 | | | | | 0 | 0 | 0 | 255 | 28 | X | X | - | - | - | - | X | X | 28 | X | X | - | | | NORM | | | 28 |
| 29 | 2I11U | 2 | | | 2 | | 0 | 0 | 0 | 255 | 29 | X | - | - | - | - | - | X | X | 29 | X | X | - | | | STOPB | | | 29 |
| 30 | 4I11L | 4 | | 15 | 2 | | 0 | 0 | 0 | 255 | 30 | X | - | - | - | - | - | X | X | 30 | X | X | - | | | STOPB | | | 30 |
| 31 | 6J11U | 6 | | | 2 | | 0 | 0 | 0 | 255 | 31 | X | - | - | - | - | - | X | X | 31 | X | X | - | | | STOPB | | | 31 |
| 32 | 8J11L | 8 | | 15 | 2 | | 0 | 0 | 0 | 255 | 32 | X | - | - | - | - | - | X | X | 32 | X | X | - | | | STOPB | | | 32 |
| 33 | 1I1L | 1 | | | | | 0 | 0 | 0 | 255 | 33 | X | X | - | - | - | - | X | X | 33 | X | X | - | | | NORM | | NBL2 | 33 |
| 34 | 2I4L | 2 | | | 2 | | 0 | 0 | 0 | 255 | 34 | X | - | - | - | - | - | X | X | 34 | X | X | - | | | STOPB | | SBT2 | 34 |
| 35 | 3I5L | 3 | | | | | 0 | 0 | 0 | 255 | 35 | X | X | - | - | - | - | X | X | 35 | X | X | - | | | NORM | | EBL2 | 35 |
| 36 | 4I8L | 4 | | 15 | 2 | | 0 | 0 | 0 | 255 | 36 | X | - | - | - | - | - | X | X | 36 | X | X | - | | | STOPB | | WBR1 | 36 |
| 37 | 5J1L | 5 | | | | | 0 | 0 | 0 | 255 | 37 | X | X | - | - | - | - | X | X | 37 | X | X | - | | | NORM | | SBL2 | 37 |
| 38 | 6J4L | 6 | | | 2 | | 0 | 0 | 0 | 255 | 38 | X | - | - | - | - | - | X | X | 38 | X | X | - | | | STOPB | | NBT2 | 38 |
| 39 | 7J5L | 7 | | | | | 0 | 0 | 0 | 255 | 39 | X | X | - | - | - | - | X | X | 39 | X | X | - | | | NORM | | | 39 |
| 40 | 8J8L | 8 | | | 2 | | 0 | 0 | 0 | 255 | 40 | X | - | - | - | - | - | X | X | 40 | X | X | - | | | STOPB | | EBT2 | 40 |
| 41 | 4I10U | 4 | | | | | 0 | 0 | 0 | 255 | 41 | - | X | - | - | - | - | X | X | 41 | X | X | - | | | NORM | | | 41 |
| 42 | 4I10L | 4 | | | | | 0 | 0 | 0 | 255 | 42 | - | X | - | - | - | - | X | X | 42 | X | X | - | | | NORM | | | 42 |
| 43 | 8J10U | 8 | | | | | 0 | 0 | 0 | 255 | 43 | - | X | - | - | - | - | X | X | 43 | X | X | - | | | NORM | | | 43 |
| 44 | 8J10L | 8 | | | | | 0 | 0 | 0 | 255 | 44 | - | X | - | - | - | - | X | X | 44 | X | X | - | | | NORM | | | 44 |

ID: 285 Name: Behymer & Willow

Vol/Occ Period: 0 Seconds, 5 Minutes

2/28/2020

**Alt# 1 Times Table [1.1.6.1]**

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

**Alt# 2 Times Table [1.1.6.1]**

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

**Alt# 3 Times Table [1.1.6.1]**

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

**Alt# 1 Options Table [1.1.6.2]**

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Entry | - | - | - | - | - | - | - | - |
| Enabl SimGap | - | - | - | - | - | - | - | - |
| Guar Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |

**Alt# 2 Options Table [1.1.6.2]**

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Enrty | - | - | - | - | - | - | - | - |
| Enabl SimGap | - | - | - | - | - | - | - | - |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |

**Alt# 3 Options Table [1.1.6.2]**

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Enrty | - | - | - | - | - | - | - | - |
| Enabl SimGap | - | - | - | - | - | - | - | - |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |

**Alt# 4 Options Table [1.1.6.2]**

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Entry | - | - | - | - | - | - | - | - |
| Enabl SimGap | - | - | - | - | - | - | - | - |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |

**Alternate Tables [2.6]**

| Pat# | POpt | PTime | DetGrp | Call/Inh | Olp Off 1 2 3 4 5 6 7 8 | ASC | CNA1 | Max2 | Dia |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | 0 | Off | | DFT |
| 2 | | | | | | 0 | Off | | DFT |
| 3 | | | | | | 0 | Off | | DFT |
| 4 | | | | | | 0 | Off | | DFT |
| 5 | | | | | | 0 | Off | | DFT |
| 6 | | | | | | 0 | Off | | DFT |
| 7 | | | | | | 0 | Off | | DFT |
| 8 | | | | | | 0 | Off | | DFT |
| 9 | | | | | | 0 | Off | | DFT |
| 10 | | | | | | 0 | Off | | DFT |
| 11 | | | | | | 0 | Off | | DFT |
| 12 | | | | | | 0 | Off | | DFT |
| 13 | | | | | | 0 | Off | | DFT |
| 14 | | | | | | 0 | Off | | DFT |
| 15 | | | | | | 0 | Off | | DFT |
| 16 | | | | | | 0 | Off | | DFT |
| 17 | | | | | | 0 | Off | | DFT |
| 18 | | | | | | 0 | Off | | DFT |
| 19 | | | | | | 0 | Off | | DFT |
| 20 | | | | | | 0 | Off | | DFT |
| 21 | | | | | | 0 | Off | | DFT |
| 22 | | | | | | 0 | Off | | DFT |
| 23 | | | | | | 0 | Off | | DFT |
| 24 | | | | | | 0 | Off | | DFT |

**Time Base Parameters [4.6]**

| | | |
|---|---|---|
| Daylight Savings Time | ENABLE | |
| Time Base Sync Ref | 0 | |
| GMT Offset | - | 8 |
| Daylight Savings | Mon | Week |
| Spring | 3 | 2 |
| Fall | 11 | 1 |

**NOTE:** % and MI parameters are not used and are not shown above.

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| Annual Schedule [4.3] | Month | Day of Week | Date | Day Plan |
|---|---|---|---|---|
| 1 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 1 |
| 2 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 2 |
| 3 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 3 |
| 4 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 4 |
| 5 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 1 |
| 6 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 1 |
| 7 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 1 |
| 8 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 1 |
| 9 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 1 |
| 10 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 1 |
| 11 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 1 |
| 12 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 1 |
| 13 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 1 |
| 14 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 1 |
| 15 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 1 |
| 16 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 1 |
| 17 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 1 |
| 18 | J F M A M J J A S O N D | S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 1 |

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DAY PLANS [4.4]

| Plan 1 | | | Plan 2 | | | Plan 3 | | | Plan 4 | | | Plan 5 | | | Plan 6 | | | Plan 7 | | | Plan 8 | | | Plan 9 | | | Plan 10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act |
| 1 | 1 | 54 | | 1 | 1 | 54 | | 1 | 1 | 54 | | 1 | 0 | 1 | 54 | 1 | 0 | 0 | | 1 | 0 | 0 | | 1 | 0 | 0 | | 1 | 0 | 0 | |
| 2 | | | | 2 | | | | 2 | | | | 2 | 0 | | | 2 | 0 | | | 2 | 0 | | | 2 | 0 | | | 2 | 0 | | |
| 3 | | | | 3 | | | | 3 | | | | 3 | 0 | | | 3 | 0 | | | 3 | 0 | | | 3 | 0 | | | 3 | 0 | | |
| 4 | | | | 4 | | | | 4 | | | | 4 | 0 | | | 4 | 0 | | | 4 | 0 | | | 4 | 0 | | | 4 | 0 | | |
| 5 | | | | 5 | | | | 5 | | | | 5 | 0 | | | 5 | 0 | | | 5 | 0 | | | 5 | 0 | | | 5 | 0 | | |
| 6 | | | | 6 | | | | 6 | | | | 6 | 0 | | | 6 | 0 | | | 6 | 0 | | | 6 | 0 | | | 6 | 0 | | |
| 7 | | | | 7 | | | | 7 | | | | 7 | 0 | | | 7 | 0 | | | 7 | 0 | | | 7 | 0 | | | 7 | 0 | | |
| 8 | | | | 8 | | | | 8 | | | | 8 | 0 | | | 8 | 0 | | | 8 | 0 | | | 8 | 0 | | | 8 | 0 | | |
| 9 | | | | 9 | | | | 9 | | | | 9 | 0 | | | 9 | 0 | | | 9 | 0 | | | 9 | 0 | | | 9 | 0 | | |
| 10 | | | | 10 | | | | 10 | | | | 10 | 0 | | | 10 | 0 | | | 10 | 0 | | | 10 | 0 | | | 10 | 0 | | |

| # | Alarm | Ev | Alr |
|---|---|---|---|
| 1 | Power Up Alarm. | X | X |
| 2 | Stop Timing | X | X |
| 3 | Cabinet Door Activation | - | - |
| 4 | Coordination Failure | X | X |
| 5 | External Alarm # 1 | - | - |
| 6 | External Alarm # 2 | - | - |
| 7 | External Alarm # 3 | - | - |
| 8 | External Alarm # 4 | - | - |
| 9 | Closed Loop Disabled | - | - |
| 10 | External Alarm # 5 | - | - |
| 11 | External Alarm # 6 | - | - |
| 12 | Manual Control Enable | X | X |
| 13 | Coord Free Input | - | - |
| 14 | Local Flash Input | X | X |
| 15 | CMU/MMU Flash Input | - | - |
| 16 | MMU Fault | X | X |
| 17 | Cycle Fault | X | - |
| 18 | Cycle Failure | X | - |
| 19 | Coordination Fault | X | X |
| 20 | Controller Fault | X | X |
| 25 | EEPROM CRC Fault | X | X |
| 30 | Coord Diagnostic Fault | X | X |
| 37 | Download Request | X | X |
| 38 | Pattern Change | - | - |
| 49 | Preempt 1 Input | X | X |
| 50 | Preempt 2 Input | X | X |
| 51 | Preempt 3 Input | X | X |
| 52 | Preempt 4 Input | X | X |
| 53 | Preempt 5 Input | X | X |
| 54 | Preempt 6 Input | X | X |
| 55 | Preempt 7 Input | - | - |
| 56 | Preempt 8 Input | - | - |
| 57 | Preempt 9 Input | - | - |
| 58 | Preempt 10 Input | - | - |
| 59 | EEPROM Compare Fault | X | X |
| 60 | Coordination Failure | X | X |
| 63 | TSP Active Trigger | - | - |
| 73 | Controller Access | X | X |
| 81 | FIO Changed Status | X | X |

**#1 Bus Preempt**

| | | | | | Times | | Prior. Phases | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Enable | OFF | Min | 0 | 0 | 0 | 0 | 0 |
| Coor+Pre | OFF | Max | 0 | ---TSP--- | | | |
| Lock Mode | MAX | Lock | 0 | Headway | 0 | | |
| No Skip | OFF | Alt Table | 0 | GrpLock | OFF | | |
| Qjump | OFF | HoldDwell | #N/A | FreeMod | OFF | | |

**#2 Bus Preempt**

| | | | | | Times | | Prior. Phases | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Enable | OFF | Min | 0 | 0 | 0 | 0 | 0 |
| Coor+Pre | OFF | Max | 0 | ---TSP--- | | | |
| Lock Mode | MAX | Lock | 0 | Headway | 0 | | |
| No Skip | OFF | Alt Table | 0 | GrpLock | OFF | | |
| Qjump | OFF | HoldDwell | #N/A | FreeMod | OFF | | |

**#3 Bus Preempt**

| | | | | | Times | | Prior. Phases | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Enable | OFF | Min | 0 | 0 | 0 | 0 | 0 |
| Coor+Pre | OFF | Max | 0 | ---TSP--- | | | |
| Lock Mode | MAX | Lock | 0 | Headway | 0 | | |
| No Skip | OFF | Alt Table | 0 | GrpLock | OFF | | |
| Qjump | OFF | HoldDwell | #N/A | FreeMod | OFF | | |

**#4 Bus Preempt**

| | | | | | Times | | Prior. Phases | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Enable | OFF | Min | 0 | 0 | 0 | 0 | 0 |
| Coor+Pre | OFF | Max | 0 | ---TSP--- | | | |
| Lock Mode | MAX | Lock | 0 | Headway | 0 | | |
| No Skip | OFF | Alt Table | 0 | GrpLock | OFF | | |
| Qjump | OFF | HoldDwell | #N/A | FreeMod | OFF | | |

**I/O INPUT TABLE**

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 16 | 8 | 22 | 3 | 17 | 9 | 23 |
| 2 | 6 | 20 | 12 | 26 | 198 | 199 | 30 | 31 |
| 3 | 15 | 1 | 21 | 7 | 27 | 13 | 28 | 14 |
| 4 | 189 | 189 | 189 | 189 | 4 | 18 | 10 | 24 |
| 5 | 130 | 134 | 132 | 136 | 200 | 201 | 202 | 203 |
| 6 | 32 | 5 | 19 | 11 | 25 | 29 | 208 | 207 |
| 7 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 8 | 41 | 42 | 43 | 44 | 189 | 189 | 189 | 189 |

**ACTION Table [4.5]**

| Act | Pat# | A1 | A2 | A3 | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | P1 | P2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 15 | 15 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 16 | 0 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 54 | 254 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 55 | 0 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |

**Alarm Parameters [1.6.7.1]**

| | |
|---|---|
| Pattern Events: | ON |
| Local Txmt Alarms: | OFF |
| Reassign User Alarm #1 In (5): | 0 |
| Reassign User Alarm #2 In (6): | 0 |
| Preempt Events: | ON |

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## I/O Inputs - 1.8.9.1.5

| C-1 PIN | I/O Source | Function | Input Name |
|---|---|---|---|
| 39 | I1-1 | 2 | Veh Det 2 |
| 40 | I1-2 | 16 | Veh Det 16 |
| 41 | I1-3 | 8 | Veh Det 8 |
| 42 | I1-4 | 22 | Veh Det 22 |
| 43 | I1-5 | 3 | Veh Det 3 |
| 44 | I1-6 | 17 | Veh Det 17 |
| 45 | I1-7 | 9 | Veh Det 9 |
| 46 | I1-8 | 23 | Veh Det 23 |
| 47 | I2-1 | 6 | Veh Det 6 |
| 48 | I2-2 | 20 | Veh Det 20 |
| 49 | I2-3 | 12 | Veh Det 12 |
| 50 | I2-4 | 26 | Veh Det 26 |
| 51 | I2-5 | 198 | Pre 1 In |
| 52 | I2-6 | 199 | Pre 2 In |
| 53 | I2-7 | 30 | Veh Det 30 |
| 54 | I2-8 | 31 | Veh Det 31 |
| 55 | I3-1 | 15 | Veh Det 15 |
| 56 | I3-2 | 1 | Veh Det 1 |
| 57 | I3-3 | 21 | Veh Det 21 |
| 58 | I3-4 | 7 | Veh Det 7 |
| 59 | I3-5 | 27 | Veh Det 27 |
| 60 | I3-6 | 13 | Veh Det 13 |
| 61 | I3-7 | 28 | Veh Det 28 |
| 62 | I3-8 | 14 | Veh Det 14 |
| 63 | I4-5 | 4 | Veh Det 4 |
| 64 | I4-6 | 18 | Veh Det 18 |
| 65 | I4-7 | 10 | Veh Det 10 |
| 66 | I4-8 | 24 | Veh Det 24 |
| 67 | I5-1 | 130 | Ped Call 2 |
| 68 | I5-2 | 134 | Ped Call 6 |
| 69 | I5-3 | 132 | Ped Call 4 |
| 70 | I5-4 | 136 | Ped Call 8 |
| 71 | I5-5 | 200 | Pre 3 In |
| 72 | I5-6 | 201 | Pre 4 In |
| 73 | I5-7 | 202 | Pre 5 In |
| 74 | I5-8 | 203 | Pre 6 In |
| 75 | I6-1 | 32 | Veh Det 32 |
| 76 | I6-2 | 5 | Veh Det 5 |
| 77 | I6-3 | 19 | Veh Det 19 |
| 78 | I6-4 | 11 | Veh Det 11 |
| 79 | I6-5 | 25 | Veh Det 25 |
| 80 | I6-6 | 29 | Veh Det 29 |
| 81 | I6-7 | 208 | Local Flash |
| 82 | I6-8 | 207 | Comp StopTm |

## I/O OUTPUTS - 1.8.9.2.5

| C-1 PIN | I/O Source | Function | Output Name |
|---|---|---|---|
| 1 | Logic Grd | | |
| 2 | O1-1 | 14 | Red Ch 14 |
| 3 | O1-2 | 62 | Grn Chan 14 |
| 4 | O1-3 | 4 | Red Ch 4 |
| 5 | O1-4 | 28 | Yel Chan 4 |
| 6 | O1-5 | 52 | Grn Chan 4 |
| 7 | O1-6 | 3 | Red Ch 3 |
| 8 | O1-7 | 27 | Yel Chan 3 |
| 9 | O1-8 | 51 | Grn Chan 3 |
| 10 | O2-1 | 13 | Red Ch 13 |
| 11 | O2-2 | 61 | Grn Chan 13 |
| 12 | O2-3 | 2 | Red Ch 2 |
| 13 | O2-4 | 26 | Yel Chan 2 |
| 14 | Logic Grd | | |
| 15 | O2-5 | 50 | Grn Chan 2 |
| 16 | O2-6 | 1 | Red Ch 1 |
| 17 | O2-7 | 25 | Yel Chan 1 |
| 18 | O2-8 | 49 | Grn Chan 1 |
| 19 | O3-1 | 16 | Red Ch 16 |
| 20 | O3-2 | 64 | Grn Chan 16 |
| 21 | O3-3 | 8 | Red Ch 8 |
| 22 | O3-4 | 32 | Yel Chan 8 |
| 23 | O3-5 | 56 | Grn Chan 8 |
| 24 | O3-6 | 7 | Red Ch 7 |
| 25 | O3-7 | 31 | Yel Chan 7 |
| 26 | O3-8 | 55 | Grn Chan 7 |
| 27 | O4-1 | 15 | Red Ch 15 |
| 28 | O4-2 | 63 | Grn Chan 15 |
| 29 | O4-3 | 6 | Red Ch 6 |
| 30 | O4-4 | 30 | Yel Chan 6 |
| 31 | O4-5 | 54 | Grn Chan 6 |
| 32 | O4-6 | 5 | Red Ch 5 |
| 33 | O4-7 | 29 | Yel Chan 5 |
| 34 | O4-8 | 53 | Grn Chan 5 |
| 35 | O5-1 | 37 | Yel Chan 13 |
| 36 | O5-2 | 39 | Yel Chan 15 |
| 37 | O5-3 | 38 | Yel Chan 14 |
| 38 | O5-4 | 40 | Yel Chan 16 |
| 100 | O5-5 | 42 | Yel Chan 18 |
| 101 | O5-6 | 41 | Yel Chan 17 |
| 102 | O5-7 | 115 | Not Used |
| 103 | O5-8 | 114 | Watchdog |

| C-1 PIN | I/O Source | Function | Output Name |
|---|---|---|---|
| 83 | O6-1 | 18 | Red Ch 18 |
| 84 | O6-2 | 66 | Grn Chan 18 |
| 85 | O6-3 | 12 | Red Ch 12 |
| 86 | O6-4 | 36 | Yel Chan 12 |
| 87 | O6-5 | 60 | Grn Chan 12 |
| 88 | O6-6 | 11 | Red Ch 11 |
| 89 | O6-7 | 35 | Yel Chan 11 |
| 90 | O6-8 | 59 | Grn Chan 11 |
| 91 | O7-1 | 17 | Red Ch 17 |
| 92 | Logic Grd | | |
| 93 | O7-2 | 65 | Grn Chan 17 |
| 94 | O7-3 | 10 | Red Ch 10 |
| 95 | O7-4 | 34 | Yel Chan 10 |
| 96 | O7-5 | 58 | Grn Chan 10 |
| 97 | O7-6 | 9 | Red Ch 9 |
| 98 | O7-7 | 33 | Yel Chan 9 |
| 99 | O7-8 | 57 | Grn Chan 9 |

## I/O Outputs - 1.8.9.2.5
## C-11 OUTPUTS

| | | | |
|---|---|---|---|
| 1 | O8-1 | 115 | Not Used |
| 2 | O8-2 | 115 | Not Used |
| 3 | O8-3 | 115 | Not Used |
| 4 | O8-4 | 115 | Not Used |

## I/O Inputs - 1.8.9.1.5
## C-11 INPUTS

| | | | |
|---|---|---|---|
| 15 | I7-1 | 33 | Veh Det 33 |
| 16 | I7-2 | 34 | Veh Det 34 |
| 17 | I7-3 | 35 | Veh Det 35 |
| 18 | I7-4 | 36 | Veh Det 36 |
| 19 | I7-5 | 37 | Veh Det 37 |
| 20 | I7-6 | 38 | Veh Det 38 |
| 21 | I7-7 | 39 | Veh Det 39 |
| 22 | I7-8 | 40 | Veh Det 40 |
| 23 | I8-1 | 41 | Veh Det 41 |
| 24 | I8-2 | 42 | Veh Det 42 |
| 25 | I8-3 | 43 | Veh Det 43 |
| 26 | I8-4 | 44 | Veh Det 44 |
| 27 | I8-5 | 189 | Unused |
| 28 | I8-6 | 189 | Unused |
| 29 | I8-7 | 189 | Unused |
| 30 | I8-8 | 189 | Unused |

City of FRESNO

ID: 285

NAME: Behymer & Willow

Date Printed: 2/28/2020

ID Number: 285

LOCATION: Behymer & Willow

# City of Fresno
## 332 Cabinet
## 44 Detector Plus Setup

| | DETECTOR ASSIGNMENTS | | | | | | | | | | | ISOLATORS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| "I" | I1 | I2 | I3 | I4 | I5 | I6 | I7 | I8 | I9 | I10 | I11 | I12 | I13 | I14 |
| UPPER | Ph 1<br>Call&Ext<br>T2-1&2<br>C1-56<br>Det 1<br>NBL1 | Ph 2<br>Ext<br>T2-5&6<br>C1-39<br>Det 2<br>SB Far | Ph 2<br>Call&TP3<br>T2-9&10<br>C1-63<br>Det 4<br>SB Mid | Ph 2<br>Call&TP3<br>T4-1&2<br>C1-47<br>Det 6<br>SBT1 | Ph 3<br>Call&Ext<br>T4-5&6<br>C1-58<br>Det 7<br>EBL1 | Ph 4<br>Ext<br>T4-9&10<br>C1-41<br>Det 8<br>WB Far | Ph 4<br>Call&TP3<br>T6-1&2<br>C1-65<br>Det 10<br>WB Mid | Ph 4<br>Call&TP3<br>T6-5&6<br>C1-49<br>Det 12<br>WBT1 | Ph 1<br>Call&Ext<br>T6-9&10<br>C1-60<br>Det 13<br>NBLt Bk | Ph 2/4<br>Ext<br>T10-5&6<br>C11-23<br>Det 41 | Ph 2<br>Call&Ext<br>T8-1<br>C1-80<br>Det 29<br>BIKE | Ph 2<br>PPB<br>T8-4<br>C1-67 | Ph 6<br>PPB<br>T8-7<br>C1-68 | FLASH<br>SENSE<br>T8-10<br>C1-81 |
| LOWER | Ph 1<br>Call&Ext<br>T2-3&4<br>C11-15<br>Det 33<br>NBL2 | Ph 2<br>Call&TP3<br>T2-7&8<br>C1-43<br>Det 3<br>SB Bk | Ph 2<br>Call&Ext<br>T2-11&12<br>C1-76<br>Det 5<br>SBRt | Ph 2<br>Call&TP3<br>T4-3&4<br>C11-16<br>Det 34<br>SBT2 | Ph 3<br>Call&Ext<br>T4-7&8<br>C11-17<br>Det 35<br>EBL2 | Ph 4<br>Call&TP3<br>T4-11&12<br>C1-45<br>Det 9<br>WB Bk | Ph 4<br>Call&Ext<br>T6-3&4<br>C1-78<br>Det 11<br>WBRt | Ph 4<br>Call&TP3<br>T6-7&8<br>C11-18<br>Det 36<br>WBT2 | Ph 3<br>Call&Ext<br>T6-11&12<br>C1-62<br>Det 14<br>EBLt Bk | Ph 2/4<br>Ext<br>T10-7&8<br>C11-24<br>Det 42 | Ph 4<br>Call&Ext<br>T8-2<br>C1-53<br>Det 30<br>BIKE | Ph 4<br>PPB<br>T8-5<br>C1-69 | Ph 8<br>PPB<br>T8-8<br>C1-70 | STOP<br>TIMING<br>T8-11<br>C1-82 |
| "J" | J1 | J2 | J3 | J4 | J5 | J6 | J7 | J8 | J9 | J10 | J11 | J12 | J13 | J14 |
| UPPER | Ph 5<br>Call&Ext<br>T3-1&2<br>C1-55<br>Det 15<br>SBL1 | Ph 6<br>Ext<br>T3-5&6<br>C1-40<br>Det 16<br>NB Far | Ph 6<br>Call&TP3<br>T3-9&10<br>C1-64<br>Det 18<br>NB Mid | Ph 6<br>Call&TP3<br>T5-1&2<br>C1-48<br>Det 20<br>NBT1 | Ph 7<br>Call&Ext<br>T5-5&6<br>C1-57<br>Det 21<br>WBL1 | Ph 8<br>Ext<br>T5-9&10<br>C1-42<br>Det 22<br>EB Far | Ph 8<br>Call&TP3<br>T7-1&2<br>C1-66<br>Det 24<br>EB Mid | Ph 8<br>Call&TP3<br>T7-5&6<br>C1-50<br>Det 26<br>EBT1 | Ph 5<br>Call&Ext<br>T7-9&10<br>C1-59<br>Det 27<br>SBLt Bk | Ph 6/8<br>Ext<br>T10-9&10<br>C11-25<br>Det 43 | Ph 6<br>Call&Ext<br>T9-1<br>C1-54<br>Det 31<br>BIKE | EMER A<br>Ph 2 + 5<br>T9-4<br>C1-71 | EMER B<br>Ph 4 + 7<br>T9-5<br>C1-72 | RR1<br>FLASH<br>T9-10<br>C1-51 |
| LOWER | Ph 5<br>Call&Ext<br>T3-3&4<br>C11-19<br>Det 37<br>SBL2 | Ph 6<br>Call&TP3<br>T3-7&8<br>C1-44<br>Det 17<br>NB Bk | Ph 6<br>Call&Ext<br>T3-11&12<br>C1-77<br>Det 19<br>NBRt | Ph 6<br>Call&TP3<br>T5-3&4<br>C11-20<br>Det 38<br>NBT2 | Ph 7<br>Call&Ext<br>T5-7&8<br>C11-21<br>Det 39<br>WBL2 | Ph 8<br>Call&TP3<br>T5-11&12<br>C1-46<br>Det 23<br>EB Bk | Ph 8<br>Call&Ext<br>T7-3&4<br>C1-79<br>Det 25<br>EBRt | Ph 8<br>Call&TP3<br>T7-7&8<br>C11-22<br>Det 40<br>EBT2 | Ph 7<br>Call&Ext<br>T7-11&12<br>C1-61<br>Det 28<br>WBLt Bk | Ph 6/8<br>EXT<br>T10-11&12<br>C11-26<br>Det 44 | Ph 8<br>Call&Ext<br>T9-2<br>C1-75<br>Det 32<br>BIKE | EMER C<br>Ph 1 + 6<br>T9-7<br>C1-73 | EMER D<br>Ph 3 + 8<br>T9-8<br>C1-74 | RR2<br>LTD OP<br>T9-11<br>C1-52 |

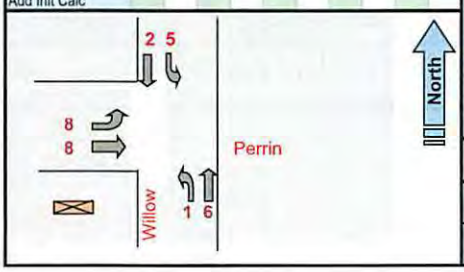
COMMENTS:

**TIMING UPDATES AND MODIFICATIONS**

**ID:** 285 **NAME:** Behymer & Willow

| DATE | CHANGES MADE | ATMS or CABINET | BY |
|---|---|---|---|
| 2/28/2020 | Updated All Red Start from 4 to 6 seconds. Updated timing calculations, FDW, and detector attributes. | ATMS | JT |
| | | | |
| | | | |
| | | |

| Movement | NL | ST | | | SL | NT | | ET | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Times [1.1.1] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Min Green | 8 | 8 | | | 8 | 8 | | 8 | | |
| Gap, Ext | 2 | 5.9 | | | 2 | 5.9 | | 5.5 | | |
| Max 1 | 20 | 35 | | | 20 | 35 | | 30 | | |
| Max 2 | 12 | 25 | | | 12 | 25 | | 20 | | |
| Yel Clearance | 4.3 | 4.7 | | | 4.3 | 4.7 | | 4.3 | | |
| Red Clearance | 2 | 1 | | | 1 | 1 | | 1 | | |
| Walk | | 5 | | | | | | | | |
| Ped Clearance | | 32 | | | | | | | | |
| Red Revert | 2 | 2 | | | 2 | 2 | | 2 | | |
| Add Initial | | | | | | | | | | |
| Max Initial | | | | | | | | | | |
| Time B4 Reduct | | 8 | | | | 8 | | 8 | | |
| Cars B4 Reduct | | | | | | | | | | |
| Time To Reduce | | 18 | | | | 18 | | 15 | | |
| Reduce By | | | | | | | | | | |
| Min Gap | 2 | 2 | | | 2 | 2 | | 2 | | |
| DyMaxLim | | | | | | | | | | |
| Max Step | | | | | | | | | | |
| Options [1.1.2] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Enable | X | X | | | X | X | | X | | |
| Min Recall | | | | | | | | | | |
| Max Recall | | | | | | | | | | |
| Ped Recall | | | | | | | | | | |
| Soft Recall | | X | | | | X | | | | |
| Lock Calls | | | | | | | | | | |
| Auto Flash Entry | | | | | | | | | | |
| Auto Flash Exit | | | | | | | | | | |
| Dual Entry | | X | | | | X | | | | |
| Enable Simul Gap | | | | | | | | | | |
| Gaurantee Passage | | | | | | | | | | |
| Rest In Walk | | | | | | | | | | |
| Conditonal Service | | | | | | | | | | |
| Non-Actuated 1 | | | | | | | | | | |
| Non-Actuated 2 | | | | | | | | | | |
| Add Init Calc | | | | | | | | | | |




Phase Options+ [1.1.3]

| Options+ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Reservice | | | | | | | | | | |
| PedClr Thru Yel | | | | | | | | | | |
| SkipRed-NoCall | | | | | | | | | | |
| Red Rest | | | | | | | | | | |
| Max II | | | | | | | | | | |
| *Max III | | | | | | | | | | |
| Max Inhibit | | | | | | | | | | |
| Ped Delay | | | | | | | | | | |
| Red Rest on Gap | | | | | | | | | | |
| Conflicting Phase | | | | | | | | | | |
| Grn/Ped Delay | | | | | | | | | | |
| Omit Yel, Yel P | | | | | | | | | | |
| Ped Out/Olp Ped | | | | | | | | | | |
| StartYel, Next P | | | | | | | | | | |
| *StartupVehCall | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| *StartupPedCall | | | | | | | | | | |

Phase Concurrency [1.1.4]

| Phase | Ring | StartUp | Concurrent Phases | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | RED | 5 | 6 | 0 | 0 | | | | |
| 2 | 1 | GREEN | 5 | 6 | 0 | 0 | | | | |
| 3 | 1 | RED | 7 | 8 | 0 | 0 | | | | |
| 4 | 1 | RED | 7 | 8 | 0 | 0 | | | | |
| 5 | 2 | RED | 1 | 2 | 0 | 0 | | | | |
| 6 | 2 | GREEN | 1 | 2 | 0 | 0 | | | | |
| 7 | 2 | RED | 3 | 4 | 0 | 0 | | | | |
| 8 | 2 | RED | 3 | 4 | 0 | 0 | | | | |
| 9 | | RED | 0 | 0 | 0 | 0 | | | | |
| 10 | | RED | 0 | 0 | 0 | 0 | | | | |
| 11 | | RED | 0 | 0 | 0 | 0 | | | | |
| 12 | | RED | 0 | 0 | 0 | 0 | | | | |

Comm Ports [6.6]

| Channel | Port | Echo | Mode |
|---|---|---|---|
| Async 1 | SP1 | NONE | 0 |
| Async 2 | SP2 | NONE | 0 |
| Async 3 | SP8 | NONE | 0 |
| Async 4 | OFF | NONE | 0 |
| Sync 1 | SP5S | | |
| Sync 2 | OFF | | |
| TS2CVM | NONE | | |
| Opticom | NONE | | |
| GPS | NONE | | |

Unit Params [1.2.1]

| | | | |
|---|---|---|---|
| Screen Size | 8 | Metric | OFF |
| Startup Flash | 0 | Red Revert | 2 |
| MCE Timeout | 0 | Auto Ped Clear | OFF |
| Loc Flsh Start | RSt | Display Time | 60 |
| Yellow < 3* | OFF | Tone Disable | ON |
| Allow Skip Yel | OFF | AudioPedTime | 0 |
| Start Red Tm | 6 | Phase Mode | STD8 |
| Startup Calls | UseProg | CNA FreeTime | 0 |
| TOD Dimming | OFF | Diamond Mode | 4Ph |
| ST over Prmpt | OFF | Free Ring Seq | 1 |
| Feature Profile | 1 | IO Mode | USER |
| Mx Seek TrkTm | 0 | Max Cyc Timer | 0 |
| Mx Seek Dwell | 0 | CycFlt Actn | ALARM |
| Prmpt/Ext Coor | EXT | Clrnc Decide | OFF |
| Aux Switch | STOPTM | LPAlt Srs | 3-6 |
| *InhFYA Red St | OFF | Security Delay | 0 |
| RingA1go | 0 | | |

* - 76.12B or newer

Times+ [1.1.7]

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Walk2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BikeClr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GrnFlash | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SfClrMn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SfClrNoFlsh | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| NoPed Reserv | | | | | | | | |

Comm [6.2]

| Port | Baud Rate | FCM |
|---|---|---|
| 1 | 38400 | 6 |
| 2 | 9600 | 6 |
| 3 | 9600 | 6 |
| 4 | 9600 | 6 |

Comm [6.5]

| | | | | | Host IPs | | | |
|---|---|---|---|---|---|---|---|---|
| IP Address: | 10 | 53 | 25 | 131 | ATMS | | | |
| Mask: | 255 | 255 | 255 | 0 | 10 | 50 | 10 | 22 |
| Gateway: | 10 | 53 | 25 | 1 | SG | | | |
| Port #: | 5125 | | | | 0 | 0 | 0 | 0 |

City of FRESNO

Phase Seq. (2 ring) Chart [1.2.4]

| Seq # | Ring | Phases | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 2 | 3 | 4 | 0 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 | 0 |
| 2 | 1 | 1 | 2 | 3 | 4 | 0 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 | 0 |
| 3 | 1 | 2 | 1 | 3 | 4 | 0 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 | 0 |
| 4 | 1 | 2 | 1 | 3 | 4 | 0 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 | 0 |
| 5 | 1 | 1 | 2 | 3 | 4 | 0 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 | 0 |
| 6 | 1 | 1 | 2 | 3 | 4 | 0 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 | 0 |
| 7 | 1 | 2 | 1 | 3 | 4 | 0 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 | 0 |
| 8 | 1 | 2 | 1 | 3 | 4 | 0 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 | 0 |
| 9 | 1 | 1 | 2 | 4 | 3 | 0 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 | 0 |
| 10 | 1 | 1 | 2 | 4 | 3 | 0 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 | 0 |
| 11 | 1 | 2 | 1 | 4 | 3 | 0 | 0 |
| | 2 | 5 | 6 | 7 | 8 | 0 | 0 |
| 12 | 1 | 2 | 1 | 4 | 3 | 0 | 0 |
| | 2 | 6 | 5 | 7 | 8 | 0 | 0 |
| 13 | 1 | 1 | 2 | 4 | 3 | 0 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 | 0 |
| 14 | 1 | 1 | 2 | 4 | 3 | 0 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 | 0 |
| 15 | 1 | 2 | 1 | 4 | 3 | 0 | 0 |
| | 2 | 5 | 6 | 8 | 7 | 0 | 0 |
| 16 | 1 | 2 | 1 | 4 | 3 | 0 | 0 |
| | 2 | 6 | 5 | 8 | 7 | 0 | 0 |

Advance Warning [1.1.9]

| | Ph | Tm |
|---|---|---|
| Aux Out #1 | 0 | 0 |
| Aux Out #2 | 0 | 0 |

**NAME:** Perrin & Willow **ID:** 284 **Configuration:** Standard File

V76.12/13
Updated 12/6/17

| | | | |
|---|---|---|---|
| Prepared by: | CS | Date Installed / By: | |
| Checked by: | CS | Date Superseded: | |

Date Printed: 3/18/20

| [2.1] Coord Modes+ | |
|---|---|
| Test OpMode | 0 |
| Correction | SHRT/LNG |
| Maximum | MAX INH |
| Force Mode | FIXED |
| Flash Mode | CHANNEL |
| Coord Modes+ (Page 2) | |
| FreeonSeqCh | ON |
| Closed Loop | OFF |
| External | OFF |
| Latch Sec Frc | OFF |
| Stop-in-Walk | OFF |
| Ped Recycle | P1256_INH |
| Expand Splt | OFF |
| Easy Float | OFF |
| Auto Reset | ON |
| NTCIP Yield | + 0 |
| Leave Walk | |
| Before | TIMED |
| After | TIMED |

Intersection Name: Perrin & Willow

ID: 284

Date Printed: 3/18/2020

[2.4] Patterns

| Pat# | Cyc | Off | Split | Seq |
|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 1 |
| 2 | 0 | 0 | 2 | 1 |
| 3 | 0 | 0 | 3 | 1 |
| 4 | 0 | 0 | 4 | 1 |
| 5 | 0 | 0 | 5 | 1 |
| 6 | 0 | 0 | 6 | 1 |
| 7 | 0 | 0 | 7 | 1 |
| 8 | 0 | 0 | 8 | 1 |
| 9 | 0 | 0 | 9 | 1 |
| 10 | 0 | 0 | 10 | 1 |
| 11 | 0 | 0 | 0 | 1 |
| 12 | 0 | 0 | 0 | 1 |
| 13 | 0 | 0 | 0 | 1 |

[2.7.1-24] Splits

| Split | [2.7] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 2 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 3 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 4 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 5 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 6 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 7 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 8 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 9 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 10 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 11 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 12 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 13 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |

[2.5] Transition

| Pat# | Short | Long | Dwell | No Shortway Ø | | | | E-Yld | Offset | Ret Hold | Flt | Min Veh | Min Ped | MI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 2 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 3 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 4 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 5 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 6 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 7 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 8 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | X | OFF |
| 9 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | OFF |
| 10 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | OFF |
| 11 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 12 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 13 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |

PAGE 2

## [2.1] Coord Modes+

| | |
|---|---|
| Test OpMode | 0 |
| Correction | SHRT/LNG |
| Maximum | MAX INH |
| Force Mode | FIXED |
| Flash Mode | CHANNEL |

Coord Modes+ (Page 2)

| | |
|---|---|
| FreeonSeqCh | ON |
| Closed Loop | OFF |
| External | OFF |
| Latch Sec Frc | OFF |
| Stop-in-Walk | OFF |
| Ped Recycle | P1256_INH |
| Expand Split | OFF |
| Easy Float | OFF |
| Auto Reset | ON |
| NTCIP Yield | + 0 |
| Leave Walk | |
| Before | TIMED |
| After | TIMED |

Intersection Name: Perrin & Willow

ID: 284

Date Printed: 3/18/2020

## [2.4] Patterns

| Pat# | Cyc | Off | Split | Seq |
|---|---|---|---|---|
| 20 | 0 | 0 | 0 | 1 |
| 21 | 0 | 0 | 0 | 1 |
| 22 | 0 | 0 | 0 | 1 |
| 23 | 0 | 0 | 0 | 1 |
| 24 | 0 | 0 | 0 | 1 |
| 25 | 0 | 0 | 0 | 1 |
| 26 | 0 | 0 | 0 | 1 |
| 27 | 0 | 0 | 0 | 1 |
| 28 | 0 | 0 | 0 | 1 |
| 29 | 0 | 0 | 0 | 1 |
| 30 | 0 | 0 | 0 | 1 |
| 31 | 0 | 0 | 0 | 1 |
| 32 | 0 | 0 | 0 | 1 |

## [2.7.1-24] Splits

| Split | [2.7] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 21 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 22 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 23 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 24 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 25 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 26 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 27 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 28 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 29 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 30 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 31 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |
| 32 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON | NON | NON |

## [2.5] Transition

| Pat# | Short | Long | Dwell | No Shortway Ø | | | | E-Yld | Offset | Ret Hold | Flt | Min Veh | Min Ped | MI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 21 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 22 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 23 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 24 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 25 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 26 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 27 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 28 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 29 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 30 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 31 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |
| 32 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | OFF |

## [2.7.X.3] TSP Split Table

| Pat# | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 2 | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 2 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 3 | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 3 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 4 | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 4 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 5 | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 5 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |

## [2.9.2.(1-8)] Strategy Tables

**STRATEGY_1**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_2**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_3**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_4**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_5**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_6**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_7**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

**STRATEGY_8**

| | | | | |
|---|---|---|---|---|
| SvcPhases | 0 | 0 | 0 | 0 |
| Phs Omits | 0 | 0 | 0 | 0 |
| Ped Omits | 0 | 0 | 0 | 0 |

| | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0 | 0 | 6 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |
| 9 - FREE | Cyc | Off | Split | Seq | SPLITS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 0 | 0 | 9 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | TSP - Max Extend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Request | 1 | 2 | 3 | 4 | | | | | | |
| | | | | | Strategy | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimSvcDes | 0 | 0 | 0 | 0 | | | | | | |
| | | | | | TimEstDep | 0 | 0 | 0 | 0 | | | | | | |

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## Overlap 1-8 Program Parms & Parm+ [1.5.2.1] [1.5.2.8]

| | | | | |
|---|---|---|---|---|
| 1 | Included Ø | | | NORMAL |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| A | Conflict Olap | | Red | 1 |
| | Conflict Ped | | | |
| 2 | Included Ø | | | NORMAL |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| B | Conflict Olap | | Red | 1 |
| | Conflict Ped | | | |
| 3 | Included Ø | | | NORMAL |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| C | Conflict Olap | | Red | 1 |
| | Conflict Ped | | | |
| 4 | Included Ø | | | NORMAL |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| D | Conflict Olap | | Red | 1 |
| | Conflict Ped | | | |
| 5 | Included Ø | | | NORMAL |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| E | Conflict Olap | | Red | 1 |
| | Conflict Ped | | | |
| 6 | Included Ø | | | NORMAL |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| F | Conflict Olap | | Red | 1 |
| | Conflict Ped | | | |
| 7 | Included Ø | | | NORMAL |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| G | Conflict Olap | | Red | 1 |
| | Conflict Ped | | | |
| 8 | Included Ø | | | NORMAL |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| H | Conflict Olap | | Red | 1 |
| | Conflict Ped | | | |

## OLP GENERAL PARAMETERS [1.5.1]

| | |
|---|---|
| Lock Inhibit | OFF |
| Conflict Lock Enable | OFF |
| Parent P Clearance | ON |
| Xtra Incl Phases | OFF |
| InhibitLockInterval | Always |

## Channel Parameters [1.8.3]

| | |
|---|---|
| Pre Invert Rail Input | OFF |

## Preemption Options+ [3.Pre #.6]

| Pre # | Enable | Type | Output | Pattern | Skip | Co+Pre | Flash | Max/Min |
|---|---|---|---|---|---|---|---|---|
| 1 | OFF | RAIL | TS2 | | OFF | OFF | OFF | MAX |
| 2 | OFF | RAIL | TS2 | | OFF | OFF | OFF | MAX |
| 3 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 4 | OFF | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 5 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 6 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |

## Preemption Times [3.#.1]

| Pre # | Delay | MinDura | MaxPres | MinGrn | MinWlk | PedClr | Track Grn | Min Dwell |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | 10 | 60 | 6 | | 28 | | 10 |
| 4 | | 10 | 60 | 6 | | 28 | | 10 |
| 5 | | 10 | 60 | 6 | | 28 | | 10 |
| 6 | | 10 | 60 | 6 | | 28 | | 10 |

## Preemption, Options [3.#.3]

| Pre # | Lock Input | Over-ride Auto Flash | Over-ride Higher Preempt | Flash Dwell | Link |
|---|---|---|---|---|---|
| 1 | OFF | OFF | OFF | ON | |
| 2 | OFF | OFF | OFF | OFF | |
| 3 | OFF | OFF | OFF | OFF | |
| 4 | OFF | OFF | OFF | OFF | |
| 5 | OFF | OFF | OFF | OFF | |
| 6 | OFF | OFF | OFF | OFF | |

## Preemption, Times+ [3.#.4]

| Pre No. | Extend Dwell | Return Max | Ped Clr | Yel | Red |
|---|---|---|---|---|---|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | 20 | 10 | 3.9 | 2 |
| 4 | | 20 | 10 | 3.9 | 2 |
| 5 | | 20 | 10 | 3.9 | 2 |
| 6 | | 20 | 10 | 3.9 | 2 |

Pre 1 = RR1
Pre 2 = RR2
Pre 3 = EVA
Pre 4 = EVB
Pre 5 = EVC
Pre 6 = EVD

## Phases [3.#.2] - set the Dwell Phases

| Pre # | Column | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Dwell Veh | | | | | | | | | | |
| | Peds | | | | | | | | | | |
| 2 | Dwell Veh | | | | | | | | | | |
| | Peds | | | | | | | | | | |
| 3 | Dwell Veh | 2 | 5 | | | | | | | | |
| | Peds | | | | | | | | | | |
| 4 | Dwell Veh | | | | | | | | | | |
| | Peds | | | | | | | | | | |
| 5 | Dwell Veh | 6 | 1 | | | | | | | | |
| | Peds | | | | | | | | | | |
| 6 | Dwell Veh | 8 | | | | | | | | | |
| | Peds | | | | | | | | | | |

## Phases [3.#.2] - Trk Veh

| Pre # | Phases |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

## Exit Phases [3.#.2]

| No. | Exit Phase |
|---|---|
| 1 | |
| 2 | |
| 3 | 2 5 |
| 4 | |
| 5 | 1 6 |
| 6 | 8 |

## Overlaps+ [3.#.5]

| Pre # | | Preempt Overlaps + |
|---|---|---|
| 1 | Track | |
| | Dwell | |
| 2 | Track | |
| | Dwell | |
| 3 | Track | |
| | Dwell | |
| 4 | Track | |
| | Dwell | |
| 5 | Track | |
| | Dwell | |
| 6 | Track | |
| | Dwell | |

## Prog Parms+ (MM>1>5>2>X>3)

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

## OverlapB+: 1-A

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

## OverlapB+: 2-B

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

## OverlapB+: 3-C

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

## OverlapB+: 4-D

| | | | |
|---|---|---|---|
| Leading Green | OFF | FYA MCE Disable | OFF |
| Transit Input | | FYA Skip Red | OFF |
| FYA Delay Time | | FYA AfterPreempt | OFF |
| Ped Call Clear | OFF | | |
| Ped ClearTime | | FYA ImmedReturn | OFF |
| Green Ext Inh | | | |

City of FRESNO

ID: 284 Name: Perrin & Willow

Date Printed: 3/18/2020

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# CHANNEL SETTINGS [1.8] plus UNIT PARAMETERS [1.2.1]

## CHANNEL SETTINGS [1.8.1]

| Channel | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase / Olap # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 2 | 4 | 6 | 8 |
| Channel Type | VEH | VEH | VEH | VEH | VEH | VEH | VEH | VEH | OLP | OLP | OLP | OLP | PED | PED | PED | PED |
| Channel Flash | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | DRK | DRK | DRK | DRK |
| Flash 1-2 Hertz | | X | | X | | X | | X | | | | | | | | |
| | Page 1 | | | | | | | | Page 2 | | | | | | | |

## Chan Settings [1.8.2]

| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| VEH | VEH | VEH | VEH | VEH | VEH | VEH | VEH |
| DRK | DRK | DRK | DRK | DRK | DRK | DRK | DRK |
| | | | | | | | |

## CHANNEL PARMETERS [1.8.3]

| | |
|---|---|
| CH 17-24 Mapping: | DEFAULT |
| D-Conn Mapping: | NONE |
| Invert Rail Inputs: | OFF |
| C1-C11-ABC IO Mode: | USER |

## IO PARAMETERS [1.8.6]

| | |
|---|---|
| C1-C11-ABC IO Mode: | USER |
| D-Conn Mapping: | NONE |
| T & F BIU Mapping | DEFAULT |
| Invert Rail Inputs: | OFF |
| EVP Ped Confirm | OFF |

## CHANNELS+ [1.8.4]

| Channel | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flash Green | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Flash Red | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Flash Yellow | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Inh Red Fl in Preempt | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Olap Ovrd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Override Type | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**ID:** 284 **NAME:** Perrin & Willow

## I/O LOGIC [1.8.7]

Prt Date: 3/18/2020

| Row# | Result I/O | Result Fcn | = | Operand_1 Inv | Op_1 Src | Op_1 I/0 | Op_1 Fun | Op_1 Logic Func | Operand_2 Inv | Op_2 Src | Op_2 I/0 | Op_2 Fun | Op_2 Logic Func | Operand_3 Inv | Op_3 Src | Op_3 I/0 | Op_3 Fun | Op_3 Logic Func | Timer Dly | Timer Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 2 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 3 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 4 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 5 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 6 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 7 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 8 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 9 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |
| 10 | I | 0 | = | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | - | 0 | I | OFF | ---- | DLY | 0 |

## Ped Parms (MM>5>4)

| Det# | Call | No Act | Max Pres | Err Cnt |
|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 |
| 2 | 2 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 |
| 4 | 4 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 |
| 6 | 6 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 |
| 8 | 8 | 0 | 0 | 0 |

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| Veh Par 1-32 [5.1] | | | | | | | | | | | Vehicle Options 1-32 [5.2] | | | | | | | | | Parameters+ 1-32 [5.3] | | | | | | | | Info Only | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Det # | Input Slot | Call Ø | Swi Ø | Dlay | Ext | Que | No Act | Max Pres | Err Cnt | Fail Time | Det # | Call | Ext | Que | Add Init | Red Lock | Yell Lock | occ | vol | Det # | Occupancy G | Occupancy Y | Occupancy R | Delay 1 | Delay 2 | Type | Src | Dir | Det # |
| 1 | 1I1U | 1 | | | | | 0 | 0 | 0 | 255 | 1 | X | X | - | - | - | - | X | X | 1 | X | X | - | | | NORM | | NBL1 | 1 |
| 2 | 2I2U | 2 | | | | | 0 | 0 | 0 | 255 | 2 | - | X | - | - | - | - | X | X | 2 | X | X | - | | | NORM | | | 2 |
| 3 | 2I2L | 2 | | | 2 | | 0 | 0 | 0 | 255 | 3 | X | - | - | - | - | - | X | X | 3 | X | X | - | | | STOPB | | | 3 |
| 4 | 2I3U | 2 | | | 2 | | 0 | 0 | 0 | 255 | 4 | X | - | - | - | - | - | X | X | 4 | X | X | - | | | STOPB | | SBT3 | 4 |
| 5 | 2I3L | 2 | | | 2 | | 0 | 0 | 0 | 255 | 5 | X | - | - | - | - | - | X | X | 5 | X | X | - | | | STOPB | | SBR1 | 5 |
| 6 | 2I4U | 2 | | | 2 | | 0 | 0 | 0 | 255 | 6 | X | - | - | - | - | - | X | X | 6 | X | X | - | | | STOPB | | SBT1 | 6 |
| 7 | 3I5U | 8 | | | | | 0 | 0 | 0 | 255 | 7 | X | X | - | - | - | - | X | X | 7 | X | X | - | | | NORM | | EBL1 | 7 |
| 8 | 4I6U | 4 | | | | | 0 | 0 | 0 | 255 | 8 | - | X | - | - | - | - | X | X | 8 | X | X | - | | | NORM | | | 8 |
| 9 | 4I6L | 4 | | | 2 | | 0 | 0 | 0 | 255 | 9 | X | - | - | - | - | - | X | X | 9 | X | X | - | | | STOPB | | | 9 |
| 10 | 4I7U | 4 | | | 2 | | 0 | 0 | 0 | 255 | 10 | X | - | - | - | - | - | X | X | 10 | X | X | - | | | STOPB | | | 10 |
| 11 | 4I7L | 4 | | 15 | 2 | | 0 | 0 | 0 | 255 | 11 | X | - | - | - | - | - | X | X | 11 | X | X | - | | | STOPB | | | 11 |
| 12 | 4I8U | 4 | | | 2 | | 0 | 0 | 0 | 255 | 12 | X | - | - | - | - | - | X | X | 12 | X | X | - | | | STOPB | | | 12 |
| 13 | 1I9U | 1 | | | | | 0 | 0 | 0 | 255 | 13 | X | X | - | - | - | - | X | X | 13 | X | X | - | | | NORM | | | 13 |
| 14 | 3I9L | 8 | | | | | 0 | 0 | 0 | 255 | 14 | X | X | - | - | - | - | X | X | 14 | X | X | - | | | NORM | | | 14 |
| 15 | 5J1U | 5 | | | | | 0 | 0 | 0 | 255 | 15 | X | X | - | - | - | - | X | X | 15 | X | X | - | | | NORM | | SBL1 | 15 |
| 16 | 6J2U | 6 | | | | | 0 | 0 | 0 | 255 | 16 | - | X | - | - | - | - | X | X | 16 | X | X | - | | | NORM | | | 16 |
| 17 | 6J2L | 6 | | | 2 | | 0 | 0 | 0 | 255 | 17 | X | - | - | - | - | - | X | X | 17 | X | X | - | | | STOPB | | | 17 |
| 18 | 6J3U | 6 | | | 2 | | 0 | 0 | 0 | 255 | 18 | X | - | - | - | - | - | X | X | 18 | X | X | - | | | STOPB | | NBT3 | 18 |
| 19 | 6J3L | 6 | | | 2 | | 0 | 0 | 0 | 255 | 19 | X | - | - | - | - | - | X | X | 19 | X | X | - | | | STOPB | | NBR1 | 19 |
| 20 | 6J4U | 6 | | | 2 | | 0 | 0 | 0 | 255 | 20 | X | - | - | - | - | - | X | X | 20 | X | X | - | | | STOPB | | NBT1 | 20 |
| 21 | 7J5U | 7 | | | | | 0 | 0 | 0 | 255 | 21 | X | X | - | - | - | - | X | X | 21 | X | X | - | | | NORM | | | 21 |
| 22 | 8J6U | 8 | | | | | 0 | 0 | 0 | 255 | 22 | - | X | - | - | - | - | X | X | 22 | X | X | - | | | NORM | | | 22 |
| 23 | 8J6L | 8 | | | 2 | | 0 | 0 | 0 | 255 | 23 | X | - | - | - | - | - | X | X | 23 | X | X | - | | | STOPB | | | 23 |
| 24 | 8J7U | 8 | | | 2 | | 0 | 0 | 0 | 255 | 24 | X | - | - | - | - | - | X | X | 24 | X | X | - | | | STOPB | | | 24 |
| 25 | 8J7L | 8 | | 15 | 2 | | 0 | 0 | 0 | 255 | 25 | X | - | - | - | - | - | X | X | 25 | X | X | - | | | STOPB | | EBR1 | 25 |
| 26 | 8J8U | 8 | | | 2 | | 0 | 0 | 0 | 255 | 26 | X | - | - | - | - | - | X | X | 26 | X | X | - | | | STOPB | | EBT1 | 26 |
| 27 | 5J9U | 5 | | | | | 0 | 0 | 0 | 255 | 27 | X | X | - | - | - | - | X | X | 27 | X | X | - | | | NORM | | | 27 |
| 28 | 7J9L | 7 | | | | | 0 | 0 | 0 | 255 | 28 | X | X | - | - | - | - | X | X | 28 | X | X | - | | | NORM | | | 28 |
| 29 | 2I11U | 2 | | | 2 | | 0 | 0 | 0 | 255 | 29 | X | - | - | - | - | - | X | X | 29 | X | X | - | | | STOPB | | | 29 |
| 30 | 4I11L | 4 | | 15 | 2 | | 0 | 0 | 0 | 255 | 30 | X | - | - | - | - | - | X | X | 30 | X | X | - | | | STOPB | | | 30 |
| 31 | 6J11U | 6 | | | 2 | | 0 | 0 | 0 | 255 | 31 | X | - | - | - | - | - | X | X | 31 | X | X | - | | | STOPB | | | 31 |
| 32 | 8J11L | 8 | | 15 | 2 | | 0 | 0 | 0 | 255 | 32 | X | - | - | - | - | - | X | X | 32 | X | X | - | | | STOPB | | | 32 |
| 33 | 1I1L | 1 | | | | | 0 | 0 | 0 | 255 | 33 | X | X | - | - | - | - | X | X | 33 | X | X | - | | | NORM | | NBL2 | 33 |
| 34 | 2I4L | 2 | | | 2 | | 0 | 0 | 0 | 255 | 34 | X | - | - | - | - | - | X | X | 34 | X | X | - | | | STOPB | | SBT2 | 34 |
| 35 | 3I5L | 8 | | | | | 0 | 0 | 0 | 255 | 35 | X | X | - | - | - | - | X | X | 35 | X | X | - | | | NORM | | EBL2 | 35 |
| 36 | 4I8L | 4 | | | 2 | | 0 | 0 | 0 | 255 | 36 | X | - | - | - | - | - | X | X | 36 | X | X | - | | | STOPB | | | 36 |
| 37 | 5J1L | 5 | | | | | 0 | 0 | 0 | 255 | 37 | X | X | - | - | - | - | X | X | 37 | X | X | - | | | NORM | | SBL2 | 37 |
| 38 | 6J4L | 6 | | | 2 | | 0 | 0 | 0 | 255 | 38 | X | - | - | - | - | - | X | X | 38 | X | X | - | | | STOPB | | NBT2 | 38 |
| 39 | 7J5L | 7 | | | | | 0 | 0 | 0 | 255 | 39 | X | X | - | - | - | - | X | X | 39 | X | X | - | | | NORM | | | 39 |
| 40 | 8J8L | 8 | | | 2 | | 0 | 0 | 0 | 255 | 40 | X | - | - | - | - | - | X | X | 40 | X | X | - | | | STOPB | | | 40 |
| 41 | 4I10U | 2 | | | | | 0 | 0 | 0 | 255 | 41 | - | X | - | - | - | - | X | X | 41 | X | X | - | | | NORM | | | 41 |
| 42 | 4I10L | 2 | | | | | 0 | 0 | 0 | 255 | 42 | - | X | - | - | - | - | X | X | 42 | X | X | - | | | NORM | | | 42 |
| 43 | 8J10U | 6 | | | | | 0 | 0 | 0 | 255 | 43 | - | X | - | - | - | - | X | X | 43 | X | X | - | | | NORM | | | 43 |
| 44 | 8J10L | 6 | | | | | 0 | 0 | 0 | 255 | 44 | - | X | - | - | - | - | X | X | 44 | X | X | - | | | NORM | | | 44 |

ID: 284 Name: Perrin & Willow

Vol/Occ Period: 0 Seconds, 5 Minutes

3/18/2020

**Alt# 1 Times Table [1.1.6.1]**

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

**Alt# 2 Times Table [1.1.6.1]**

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

**Alt# 3 Times Table [1.1.6.1]**

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

**Alt# 1 Options Table [1.1.6.2]**

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Entry | - | - | - | - | - | - | - | - |
| Enabl SimGap | - | - | - | - | - | - | - | - |
| Guar Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |
| | | | | | | | | |

**Alt# 2 Options Table [1.1.6.2]**

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Enrty | - | - | - | - | - | - | - | - |
| Enabl SimGap | - | - | - | - | - | - | - | - |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |
| | | | | | | | | |

**Alt# 3 Options Table [1.1.6.2]**

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Enrty | - | - | - | - | - | - | - | - |
| Enabl SimGap | - | - | - | - | - | - | - | - |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |
| | | | | | | | | |

**Alt# 4 Options Table [1.1.6.2]**

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Entry | - | - | - | - | - | - | - | - |
| Enabl SimGap | - | - | - | - | - | - | - | - |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |
| | | | | | | | | |

**Alternate Tables [2.6]**

| Pat# | POpt | PTime | DetGrp | Call/Inh | Olp Off 1 2 3 4 5 6 7 8 | ASC | CNA1 | Max2 | Dia |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | 0 | Off | | DFT |
| 2 | | | | | | 0 | Off | | DFT |
| 3 | | | | | | 0 | Off | | DFT |
| 4 | | | | | | 0 | Off | | DFT |
| 5 | | | | | | 0 | Off | | DFT |
| 6 | | | | | | 0 | Off | | DFT |
| 7 | | | | | | 0 | Off | | DFT |
| 8 | | | | | | 0 | Off | | DFT |
| 9 | | | | | | 0 | Off | | DFT |
| 10 | | | | | | 0 | Off | | DFT |
| 11 | | | | | | 0 | Off | | DFT |
| 12 | | | | | | 0 | Off | | DFT |
| 13 | | | | | | 0 | Off | | DFT |
| 14 | | | | | | 0 | Off | | DFT |
| 15 | | | | | | 0 | Off | | DFT |
| 16 | | | | | | 0 | Off | | DFT |
| 17 | | | | | | 0 | Off | | DFT |
| 18 | | | | | | 0 | Off | | DFT |
| 19 | | | | | | 0 | Off | | DFT |
| 20 | | | | | | 0 | Off | | DFT |
| 21 | | | | | | 0 | Off | | DFT |
| 22 | | | | | | 0 | Off | | DFT |
| 23 | | | | | | 0 | Off | | DFT |
| 24 | | | | | | 0 | Off | | DFT |

**Time Base Parameters [4.6]**

| | | |
|---|---|---|
| Daylight Savings Time | ENABLE | |
| Time Base Sync Ref | 0 | |
| GMT Offset | - | 8 |
| Daylight Savings | Mon | Week |
| Spring | 3 | 2 |
| Fall | 11 | 1 |

NOTE: % and MI parameters are not used and are not shown above.

City of FRESNO

NAME: Perrin & Willow

3/18/2020 ID: 284

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| Annual Schedule [4.3] | | | | | | | | | | | | | Month | | | | | | | | | | | | Day of Week | | | | | | | Date | | | | | | | | | | | | |

| # | Alarm | Ev | Alr |
|---|---|---|---|
| 1 | Power Up Alarm. | X | X |
| 2 | Stop Timing | X | X |
| 3 | Cabinet Door Activation | - | - |
| 4 | Coordination Failure | X | X |
| 5 | External Alarm # 1 | - | - |
| 6 | External Alarm # 2 | - | - |
| 7 | External Alarm # 3 | - | - |
| 8 | External Alarm # 4 | - | - |
| 9 | Closed Loop Disabled | - | - |
| 10 | External Alarm # 5 | - | - |
| 11 | External Alarm # 6 | - | - |
| 12 | Manual Control Enable | X | X |
| 13 | Coord Free Input | - | - |
| 14 | Local Flash Input | X | X |
| 15 | CMU/MMU Flash Input | - | - |
| 16 | MMU Fault | X | X |
| 17 | Cycle Fault | X | - |
| 18 | Cycle Failure | X | - |
| 19 | Coordination Fault | X | X |
| 20 | Controller Fault | X | X |
| 25 | EEPROM CRC Fault | X | X |
| 30 | Coord Diagnostic Fault | X | X |
| 37 | Download Request | X | X |
| 38 | Pattern Change | - | - |
| 49 | Preempt 1 Input | X | X |
| 50 | Preempt 2 Input | X | X |
| 51 | Preempt 3 Input | X | X |
| 52 | Preempt 4 Input | X | X |
| 53 | Preempt 5 Input | X | X |
| 54 | Preempt 6 Input | X | X |
| 55 | Preempt 7 Input | - | - |
| 56 | Preempt 8 Input | - | - |
| 57 | Preempt 9 Input | - | - |
| 58 | Preempt 10 Input | - | - |
| 59 | EEPROM Compare Fault | X | X |
| 60 | Coordination Failure | X | X |
| 63 | TSP Active Trigger | - | - |
| 73 | Controller Access | X | X |
| 81 | FIO Changed Status | X | X |

**#1 Bus Preempt**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Enable | OFF | Times | Min | 0 | Prior. Phases | 0 | 0 | 0 | 0 |
| Coor+Pre | OFF | | Max | 0 | | ---TSP--- | | | |
| Lock Mode | MAX | | Lock | 0 | | Headway | | 0 | |
| No Skip | OFF | | Alt Table | 0 | | GrpLock | | OFF | |
| Qjump | OFF | | HoldDwell | #N/A | | FreeMod | | OFF | |

**#2 Bus Preempt**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Enable | OFF | Times | Min | 0 | Prior. Phases | 0 | 0 | 0 | 0 |
| Coor+Pre | OFF | | Max | 0 | | ---TSP--- | | | |
| Lock Mode | MAX | | Lock | 0 | | Headway | | 0 | |
| No Skip | OFF | | Alt Table | 0 | | GrpLock | | OFF | |
| Qjump | OFF | | HoldDwell | #N/A | | FreeMod | | OFF | |

**#3 Bus Preempt**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Enable | OFF | Times | Min | 0 | Prior. Phases | 0 | 0 | 0 | 0 |
| Coor+Pre | OFF | | Max | 0 | | ---TSP--- | | | |
| Lock Mode | MAX | | Lock | 0 | | Headway | | 0 | |
| No Skip | OFF | | Alt Table | 0 | | GrpLock | | OFF | |
| Qjump | OFF | | HoldDwell | #N/A | | FreeMod | | OFF | |

**#4 Bus Preempt**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Enable | OFF | Times | Min | 0 | Prior. Phases | 0 | 0 | 0 | 0 |
| Coor+Pre | OFF | | Max | 0 | | ---TSP--- | | | |
| Lock Mode | MAX | | Lock | 0 | | Headway | | 0 | |
| No Skip | OFF | | Alt Table | 0 | | GrpLock | | OFF | |
| Qjump | OFF | | HoldDwell | #N/A | | FreeMod | | OFF | |

**I/O INPUT TABLE**

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 16 | 8 | 22 | 3 | 17 | 9 | 23 |
| 2 | 6 | 20 | 12 | 26 | 198 | 199 | 30 | 31 |
| 3 | 15 | 1 | 21 | 7 | 27 | 13 | 28 | 14 |
| 4 | 189 | 189 | 189 | 189 | 4 | 18 | 10 | 24 |
| 5 | 130 | 134 | 132 | 136 | 200 | 201 | 202 | 203 |
| 6 | 32 | 5 | 19 | 11 | 25 | 29 | 208 | 207 |
| 7 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 8 | 41 | 42 | 43 | 44 | 189 | 189 | 189 | 189 |

**ACTION Table [4.5]**

| Act | Pat# | A1 | A2 | A3 | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | P1 | P2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 15 | 15 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 16 | 0 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 54 | 254 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 55 | 0 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |

**Alarm Parameters [1.6.7.1]**

| | |
|---|---|
| Pattern Events: | ON |
| Local Txmt Alarms: | OFF |
| Reassign User Alarm #1 In (5): | 0 |
| Reassign User Alarm #2 In (6): | 0 |
| Preempt Events: | ON |

City of FRESNO

Date Printed
3/18/2020

ID: 284 Name: Perrin & Willow

## I/O Inputs - 1.8.9.1.5

| C-1 PIN | I/O Source | Function | Input Name |
|---|---|---|---|
| 39 | I1-1 | 2 | Veh Det 2 |
| 40 | I1-2 | 16 | Veh Det 16 |
| 41 | I1-3 | 8 | Veh Det 8 |
| 42 | I1-4 | 22 | Veh Det 22 |
| 43 | I1-5 | 3 | Veh Det 3 |
| 44 | I1-6 | 17 | Veh Det 17 |
| 45 | I1-7 | 9 | Veh Det 9 |
| 46 | I1-8 | 23 | Veh Det 23 |
| 47 | I2-1 | 6 | Veh Det 6 |
| 48 | I2-2 | 20 | Veh Det 20 |
| 49 | I2-3 | 12 | Veh Det 12 |
| 50 | I2-4 | 26 | Veh Det 26 |
| 51 | I2-5 | 198 | Pre 1 In |
| 52 | I2-6 | 199 | Pre 2 In |
| 53 | I2-7 | 30 | Veh Det 30 |
| 54 | I2-8 | 31 | Veh Det 31 |
| 55 | I3-1 | 15 | Veh Det 15 |
| 56 | I3-2 | 1 | Veh Det 1 |
| 57 | I3-3 | 21 | Veh Det 21 |
| 58 | I3-4 | 7 | Veh Det 7 |
| 59 | I3-5 | 27 | Veh Det 27 |
| 60 | I3-6 | 13 | Veh Det 13 |
| 61 | I3-7 | 28 | Veh Det 28 |
| 62 | I3-8 | 14 | Veh Det 14 |
| 63 | I4-5 | 4 | Veh Det 4 |
| 64 | I4-6 | 18 | Veh Det 18 |
| 65 | I4-7 | 10 | Veh Det 10 |
| 66 | I4-8 | 24 | Veh Det 24 |
| 67 | I5-1 | 130 | Ped Call 2 |
| 68 | I5-2 | 134 | Ped Call 6 |
| 69 | I5-3 | 132 | Ped Call 4 |
| 70 | I5-4 | 136 | Ped Call 8 |
| 71 | I5-5 | 200 | Pre 3 In |
| 72 | I5-6 | 201 | Pre 4 In |
| 73 | I5-7 | 202 | Pre 5 In |
| 74 | I5-8 | 203 | Pre 6 In |
| 75 | I6-1 | 32 | Veh Det 32 |
| 76 | I6-2 | 5 | Veh Det 5 |
| 77 | I6-3 | 19 | Veh Det 19 |
| 78 | I6-4 | 11 | Veh Det 11 |
| 79 | I6-5 | 25 | Veh Det 25 |
| 80 | I6-6 | 29 | Veh Det 29 |
| 81 | I6-7 | 208 | Local Flash |
| 82 | I6-8 | 207 | Comp StopTm |

## I/O OUTPUTS - 1.8.9.2.5

| C-1 PIN | I/O Source | Function | Output Name |
|---|---|---|---|
| 1 | Logic Grd | | |
| 2 | O1-1 | 14 | Red Ch 14 |
| 3 | O1-2 | 62 | Grn Chan 14 |
| 4 | O1-3 | 4 | Red Ch 4 |
| 5 | O1-4 | 28 | Yel Chan 4 |
| 6 | O1-5 | 52 | Grn Chan 4 |
| 7 | O1-6 | 3 | Red Ch 3 |
| 8 | O1-7 | 27 | Yel Chan 3 |
| 9 | O1-8 | 51 | Grn Chan 3 |
| 10 | O2-1 | 13 | Red Ch 13 |
| 11 | O2-2 | 61 | Grn Chan 13 |
| 12 | O2-3 | 2 | Red Ch 2 |
| 13 | O2-4 | 26 | Yel Chan 2 |
| 14 | Logic Grd | | |
| 15 | O2-5 | 50 | Grn Chan 2 |
| 16 | O2-6 | 1 | Red Ch 1 |
| 17 | O2-7 | 25 | Yel Chan 1 |
| 18 | O2-8 | 49 | Grn Chan 1 |
| 19 | O3-1 | 16 | Red Ch 16 |
| 20 | O3-2 | 64 | Grn Chan 16 |
| 21 | O3-3 | 8 | Red Ch 8 |
| 22 | O3-4 | 32 | Yel Chan 8 |
| 23 | O3-5 | 56 | Grn Chan 8 |
| 24 | O3-6 | 7 | Red Ch 7 |
| 25 | O3-7 | 31 | Yel Chan 7 |
| 26 | O3-8 | 55 | Grn Chan 7 |
| 27 | O4-1 | 15 | Red Ch 15 |
| 28 | O4-2 | 63 | Grn Chan 15 |
| 29 | O4-3 | 6 | Red Ch 6 |
| 30 | O4-4 | 30 | Yel Chan 6 |
| 31 | O4-5 | 54 | Grn Chan 6 |
| 32 | O4-6 | 5 | Red Ch 5 |
| 33 | O4-7 | 29 | Yel Chan 5 |
| 34 | O4-8 | 53 | Grn Chan 5 |
| 35 | O5-1 | 37 | Yel Chan 13 |
| 36 | O5-2 | 39 | Yel Chan 15 |
| 37 | O5-3 | 38 | Yel Chan 14 |
| 38 | O5-4 | 40 | Yel Chan 16 |
| 100 | O5-5 | 42 | Yel Chan 18 |
| 101 | O5-6 | 41 | Yel Chan 17 |
| 102 | O5-7 | 115 | Not Used |
| 103 | O5-8 | 114 | Watchdog |

| C-1 PIN | I/O Source | Function | Output Name |
|---|---|---|---|
| 83 | O6-1 | 18 | Red Ch 18 |
| 84 | O6-2 | 66 | Grn Chan 18 |
| 85 | O6-3 | 12 | Red Ch 12 |
| 86 | O6-4 | 36 | Yel Chan 12 |
| 87 | O6-5 | 60 | Grn Chan 12 |
| 88 | O6-6 | 11 | Red Ch 11 |
| 89 | O6-7 | 35 | Yel Chan 11 |
| 90 | O6-8 | 59 | Grn Chan 11 |
| 91 | O7-1 | 17 | Red Ch 17 |
| 92 | Logic Grd | | |
| 93 | O7-2 | 65 | Grn Chan 17 |
| 94 | O7-3 | 10 | Red Ch 10 |
| 95 | O7-4 | 34 | Yel Chan 10 |
| 96 | O7-5 | 58 | Grn Chan 10 |
| 97 | O7-6 | 9 | Red Ch 9 |
| 98 | O7-7 | 33 | Yel Chan 9 |
| 99 | O7-8 | 57 | Grn Chan 9 |

### I/O Outputs - 1.8.9.2.5
### C-11 OUTPUTS

| | | | |
|---|---|---|---|
| 1 | O8-1 | 115 | Not Used |
| 2 | O8-2 | 115 | Not Used |
| 3 | O8-3 | 115 | Not Used |
| 4 | O8-4 | 115 | Not Used |

### I/O Inputs - 1.8.9.1.5
### C-11 INPUTS

| | | | |
|---|---|---|---|
| 15 | I7-1 | 33 | Veh Det 33 |
| 16 | I7-2 | 34 | Veh Det 34 |
| 17 | I7-3 | 35 | Veh Det 35 |
| 18 | I7-4 | 36 | Veh Det 36 |
| 19 | I7-5 | 37 | Veh Det 37 |
| 20 | I7-6 | 38 | Veh Det 38 |
| 21 | I7-7 | 39 | Veh Det 39 |
| 22 | I7-8 | 40 | Veh Det 40 |
| 23 | I8-1 | 41 | Veh Det 41 |
| 24 | I8-2 | 42 | Veh Det 42 |
| 25 | I8-3 | 43 | Veh Det 43 |
| 26 | I8-4 | 44 | Veh Det 44 |
| 27 | I8-5 | 189 | Unused |
| 28 | I8-6 | 189 | Unused |
| 29 | I8-7 | 189 | Unused |
| 30 | I8-8 | 189 | Unused |

City of FRESNO

ID: 284

NAME: Perrin & Willow

Date Printed: 3/18/2020

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ID Number: 284

LOCATION: Perrin & Willow

# City of Fresno
# 332 Cabinet
# 44 Detector Plus Setup

| | DETECTOR ASSIGNMENTS | | | | | | | | | | | ISOLATORS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| "I" | I1 | I2 | I3 | I4 | I5 | I6 | I7 | I8 | I9 | I10 | I11 | I12 | I13 | I14 |
| UPPER | Ph 1<br>Call&Ext<br>T2-1&2<br>C1-56<br>Det 1<br>NBL1 | Ph 2<br>Ext<br>T2-5&6<br>C1-39<br>Det 2<br>SB Far | Ph 2<br>Call&TP3<br>T2-9&10<br>C1-63<br>Det 4<br>SB Mid | Ph 2<br>Call&TP3<br>T4-1&2<br>C1-47<br>Det 6<br>SBT1 | Ph 3<br>Call&Ext<br>T4-5&6<br>C1-58<br>Det 7<br>EBL1 | Ph 4<br>Ext<br>T4-9&10<br>C1-41<br>Det 8<br>WB Far | Ph 4<br>Call&TP3<br>T6-1&2<br>C1-65<br>Det 10<br>WB Mid | Ph 4<br>Call&TP3<br>T6-5&6<br>C1-49<br>Det 12<br>WBT1 | Ph 1<br>Call&Ext<br>T6-9&10<br>C1-60<br>Det 13<br>NBLt Bk | Ph 2/4<br>Ext<br>T10-5&6<br>C11-23<br>Det 41 | Ph 2<br>Call&Ext<br>T8-1<br>C1-80<br>Det 29<br>BIKE | Ph 2<br>PPB<br>T8-4<br>C1-67 | Ph 6<br>PPB<br>T8-7<br>C1-68 | FLASH<br>SENSE<br>T8-10<br>C1-81 |
| LOWER | Ph 1<br>Call&Ext<br>T2-3&4<br>C11-15<br>Det 33<br>NBL2 | Ph 2<br>Call&TP3<br>T2-7&8<br>C1-43<br>Det 3<br>SB Bk | Ph 2<br>Call&Ext<br>T2-11&12<br>C1-76<br>Det 5<br>SBRt | Ph 2<br>Call&TP3<br>T4-3&4<br>C11-16<br>Det 34<br>SBT2 | Ph 3<br>Call&Ext<br>T4-7&8<br>C11-17<br>Det 35<br>EBL2 | Ph 4<br>Call&TP3<br>T4-11&12<br>C1-45<br>Det 9<br>WB Bk | Ph 4<br>Call&Ext<br>T6-3&4<br>C1-78<br>Det 11<br>WBRt | Ph 4<br>Call&TP3<br>T6-7&8<br>C11-18<br>Det 36<br>WBT2 | Ph 3<br>Call&Ext<br>T6-11&12<br>C1-62<br>Det 14<br>EBLt Bk | Ph 2/4<br>Ext<br>T10-7&8<br>C11-24<br>Det 42 | Ph 4<br>Call&Ext<br>T8-2<br>C1-53<br>Det 30<br>BIKE | Ph 4<br>PPB<br>T8-5<br>C1-69 | Ph 8<br>PPB<br>T8-8<br>C1-70 | STOP<br>TIMING<br>T8-11<br>C1-82 |
| "J" | J1 | J2 | J3 | J4 | J5 | J6 | J7 | J8 | J9 | J10 | J11 | J12 | J13 | J14 |
| UPPER | Ph 5<br>Call&Ext<br>T3-1&2<br>C1-55<br>Det 15<br>SBL1 | Ph 6<br>Ext<br>T3-5&6<br>C1-40<br>Det 16<br>NB Far | Ph 6<br>Call&TP3<br>T3-9&10<br>C1-64<br>Det 18<br>NB Mid | Ph 6<br>Call&TP3<br>T5-1&2<br>C1-48<br>Det 20<br>NBT1 | Ph 7<br>Call&Ext<br>T5-5&6<br>C1-57<br>Det 21<br>WBL1 | Ph 8<br>Ext<br>T5-9&10<br>C1-42<br>Det 22<br>EB Far | Ph 8<br>Call&TP3<br>T7-1&2<br>C1-66<br>Det 24<br>EB Mid | Ph 8<br>Call&TP3<br>T7-5&6<br>C1-50<br>Det 26<br>EBT1 | Ph 5<br>Call&Ext<br>T7-9&10<br>C1-59<br>Det 27<br>SBLt Bk | Ph 6/8<br>Ext<br>T10-9&10<br>C11-25<br>Det 43 | Ph 6<br>Call&Ext<br>T9-1<br>C1-54<br>Det 31<br>BIKE | EMER A<br>Ph 2 + 5<br>T9-4<br>C1-71 | EMER B<br>Ph 4 + 7<br>T9-5<br>C1-72 | RR1<br>FLASH<br>T9-10<br>C1-51 |
| LOWER | Ph 5<br>Call&Ext<br>T3-3&4<br>C11-19<br>Det 37<br>SBL2 | Ph 6<br>Call&TP3<br>T3-7&8<br>C1-44<br>Det 17<br>NB Bk | Ph 6<br>Call&Ext<br>T3-11&12<br>C1-77<br>Det 19<br>NBRt | Ph 6<br>Call&TP3<br>T5-3&4<br>C11-20<br>Det 38<br>NBT2 | Ph 7<br>Call&Ext<br>T5-7&8<br>C11-21<br>Det 39<br>WBL2 | Ph 8<br>Call&TP3<br>T5-11&12<br>C1-46<br>Det 23<br>EB Bk | Ph 8<br>Call&Ext<br>T7-3&4<br>C1-79<br>Det 25<br>EBRt | Ph 8<br>Call&TP3<br>T7-7&8<br>C11-22<br>Det 40<br>EBT2 | Ph 7<br>Call&Ext<br>T7-11&12<br>C1-61<br>Det 28<br>WBLt Bk | Ph 6/8<br>EXT<br>T10-11&12<br>C11-26<br>Det 44 | Ph 8<br>Call&Ext<br>T9-2<br>C1-75<br>Det 32<br>BIKE | EMER C<br>Ph 1 + 6<br>T9-7<br>C1-73 | EMER D<br>Ph 3 + 8<br>T9-8<br>C1-74 | RR2<br>LTD OP<br>T9-11<br>C1-52 |

COMMENTS:

**TIMING UPDATES AND MODIFICATIONS**

**ID:** 284 **NAME:** Perrin & Willow

| DATE | CHANGES MADE | ATMS or CABINET | BY |
|---|---|---|---|
| 3/18/2020 | Reassign DET 14 from P3 to P8 | | CS |
| | | | |
| | | | |
| | | |

| Movement | NL | ST | EL | WT | SL | NT | WL | ET |
|---|---|---|---|---|---|---|---|---|
| Times [1.1.1] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Min Green | 11 | 8 | 11 | 9 | 11 | 8 | 11 | 9 |
| Gap, Ext | 2 | 4 | 2 | 4.4 | 2 | 3.2 | 2 | 4.2 |
| Max 1 | 25 | 40 | 25 | 40 | 25 | 40 | 25 | 40 |
| Max 2 | | | | | | | | |
| Yel Clearance | 3.0 | 5.0 | 3.0 | 5.0 | 3.0 | 5.0 | 3.0 | 5.0 |
| Red Clearance | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Walk | | 7 | | 7 | | 7 | | 7 |
| Ped Clearance | | 25 | | 23 | | 25 | | 25 |
| Red Revert | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Add Initial | | | | | | | | |
| Max Initial | | | | | | | | |
| Time Bt Reduct | | 19 | | 18 | | 19 | | 18 |
| Cars Bt Reduct | | | | | | | | |
| Time To Reduce | | 11 | | 12 | | 11 | | 12 |
| Reduce By | | | | | | | | |
| Min Gap | 2 | 2.5 | 2 | 2.8 | 2 | 2 | 2 | 2.5 |
| DyMaxLim | 31 | 46 | 31 | 46 | 31 | 46 | 31 | 46 |
| Max Step | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Options [1.1.2] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Enable | X | X | X | X | X | X | X | X |
| Min Recall | | | | | | | | |
| Max Recall | | | | | | | | |
| Ped Recall | | | | | | | | |
| Soft Recall | | | | X | | | | X |
| Lock Calls | | | | | | | | |
| Auto Flash Entry | | | | | | | | |
| Auto Flash Exit | | | | | | | | |
| Dual Entry | | X | | X | | X | | X |
| Enable Simul Gap | X | X | X | X | X | X | X | X |
| Guarantee Passage | | | | | | | | |
| Rest In Walk | | | | | | | | |
| Condition Service | | | | | | | | |
| Non-Actuated 1 | | | | | | | | |
| Non-Actuated 2 | | | | | | | | |
| Add Init Calc | | | | | | | | |




| Channel | Port | Echo | Mode |
|---|---|---|---|
| Async 1 | SP1 | NONE | 0 |
| Async 2 | SP2 | NONE | 0 |
| Async 3 | SP8 | NONE | 0 |
| Async 4 | OFF | NONE | 0 |
| Sync 1 | SP5S | | |
| Sync 2 | OFF | | |
| TS2CVM | NONE | | |
| Opticom | NONE | | |
| GPS | NONE | | |

Comm Ports [6.6]

| Port | Ring | StartUp | Concurrent Phases | | | |
|---|---|---|---|---|---|---|
| 1 | RED | 5 | 6 | 0 | 0 | |
| 2 | RED | 5 | 6 | 0 | 0 | |
| 3 | RED | 7 | 8 | 0 | 0 | |
| 4 | GREEN | 7 | 8 | 0 | 0 | |
| 5 | RED | 1 | 2 | 0 | 0 | |
| 6 | RED | 1 | 2 | 0 | 0 | |
| 7 | RED | 3 | 4 | 0 | 0 | |
| 8 | GREEN | 3 | 4 | 0 | 0 | |
| 9 | RED | 0 | 0 | 0 | 0 | |
| 10 | RED | 0 | 0 | 0 | 0 | |
| 11 | RED | 0 | 0 | 0 | 0 | |
| 12 | RED | 0 | 0 | 0 | 0 | |

Phase Concurrency [1.1.4]

| Phase Options+ [1.1.3] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Options+ | | | | | | | | |
| Reservice | | | | | | | | |
| PedClr Thru Yel | | | | | | | | |
| SkipRed-NoCall | | | | | | | | |
| Red Rest | | | | | | | | |
| Max II | | | | | | | | |
| *Max III | | | | | | | | |
| Max Inhibit | | | | | | | | |
| Ped Delay | | | | | | | | |
| Red Rest on Gap | | | | | | | | |
| Conflicting Phase | | | | | | | | |
| Grn/Ped Delay | | | | | | | | |
| Omit Yel, Yel P | | | | | | | | |
| Ped Out/Olp Ped | | | | | | | | |
| StartYel, Next P | | | | | | | | |
| *StartupVehCall | | | | | | | | |
| *StartupPedCall | | | | | | | | |

Comm [6.2]

| Port | Baud Rate | FCM |
|---|---|---|
| 1 | 9600 | 6 |
| 2 | 9600 | 6 |
| 3 | 1200 | 0 |
| 4 | 1200 | 0 |

Comm [6.5]

| IP Address: | 10 | 128 | 1 | 51 |
|---|---|---|---|---|
| Mask: | 255 | 255 | 255 | 0 |
| Gateway: | 10 | 128 | 1 | 254 |
| Port #: | 5051 | | | |

Host IPs: ATMS

| | | | | |
|---|---|---|---|---|
| | 172 | 26 | 17 | 230 |
| SG | | | | |
| | 0 | 0 | 0 | 0 |

Time+ [1.1.7]

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Walk2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BikeClr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GrnFlash | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SfClrMn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SfClrNoFlsh | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |

* - 76.12B or newer

Unit Params [1.2.1]

| | | | |
|---|---|---|---|
| *Screen Size | 8 | Metric | OFF |
| Startup Flash | 0 | Red Revert | 1 |
| MCE Timeout | 0 | Auto Ped Clear | OFF |
| Loc Fish Start | RSI | Display Time | 30 |
| Yellow < 3" | OFF | Tone Disable | ON |
| Allow Skip Yel | OFF | AudioPedTime | OFF |
| Start Red Tm | 6 | Phase Mode | STD8 |
| *Startup Calls | OFF | CNA FreeTime | 0 |
| TOD Dimming | OFF | Diamond Mode | 4Ph |
| ST over Prmpt | OFF | Free Ring Seq | 1 |
| Feature Profile | 1 | IO Mode | USER |
| Mx Seek Tm1m | 0 | Max Cyc Timer | 0 |
| Mx Seek Dwell | 0 | CycFlt Actn | ALARM |
| Prmpt/Ext Coor | EXT | Clmc Decide | OFF |
| Aux Switch | STOPTM | LPAll Sts | OFF |
| *InhFYA Red St | Off | *SecurityDelay | 0 |

Phase Seq. (2 ring) Chart [1.2.4]

| Seq # | Ring | Phases | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 2 | 3 | 4 | | | | | |
| | 2 | 5 | 6 | 7 | 8 | | | | |
| 2 | 1 | 2 | 3 | 4 | | | | | |
| | 2 | 5 | 6 | 7 | 8 | | | | |
| 3 | 1 | 2 | 3 | 4 | | | | | |
| | 2 | 5 | 6 | 7 | 8 | | | | |
| 4 | 1 | 2 | 3 | 4 | | | | | |
| | 2 | 6 | 5 | 7 | 8 | | | | |
| 5 | 1 | 2 | 3 | 4 | | | | | |
| | 2 | 5 | 6 | 8 | 7 | | | | |
| 6 | 1 | 2 | 3 | 4 | | | | | |
| | 2 | 6 | 5 | 8 | 7 | | | | |
| 7 | 1 | 2 | 4 | 3 | | | | | |
| | 2 | 5 | 6 | 8 | 7 | | | | |
| 8 | 1 | 2 | 4 | 3 | | | | | |
| | 2 | 6 | 5 | 8 | 7 | | | | |
| 9 | 1 | 2 | 4 | 3 | | | | | |
| | 2 | 5 | 6 | 7 | 8 | | | | |
| 10 | 1 | 2 | 4 | 3 | | | | | |
| | 2 | 6 | 5 | 7 | 8 | | | | |
| 11 | 1 | 2 | 4 | 3 | | | | | |
| | 2 | 5 | 6 | 7 | 8 | | | | |
| 12 | 1 | 2 | 4 | 3 | | | | | |
| | 2 | 6 | 5 | 7 | 8 | | | | |
| 13 | 1 | 2 | 4 | 3 | | | | | |
| | 2 | 5 | 6 | 8 | 7 | | | | |
| 14 | 1 | 2 | 4 | 3 | | | | | |
| | 2 | 6 | 5 | 8 | 7 | | | | |
| 15 | 1 | 2 | 4 | 3 | | | | | |
| | 2 | 5 | 6 | 8 | 7 | | | | |
| 16 | 1 | 2 | 4 | 3 | | | | | |
| | 2 | 6 | 5 | 8 | 7 | | | | |

Advance Warning [1.1.9]

| | Ph | Tm |
|---|---|---|
| Aux Out #1 | 0 | 0 |
| Aux Out #2 | 0 | 0 |

CITY of CLOVIS

NAME: MINNEWAWA @ SHEPHERD ID: 299 Configuration: Standard File

V76.12
ATMS 1.5.45.263

| Prepared by: | T. Barker | Date Installed / By: | 1/10/2022 |
|---|---|---|---|
| Checked by: | T. Barker | Date Superseded: | |

Date Printed: 1/10/22

| [2.1] Coord Modes+ | |
|---|---|
| Test OpMode | 0 |
| Correction | LONG |
| Maximum | MAX INH |
| Force Mode | FIXED |
| Flash Mode | CHANNEL |
| Coord Modes+ (Page 2) | |
| FreeonSeqCh | ON |
| Closed Loop | OFF |
| External | OFF |
| Latch Sec Frc | OFF |
| Stop-in-Walk | OFF |
| Ped Recycle | P1256_INH |
| Expand Split | OFF |
| Easy Float | OFF |
| Auto Reset | ON |
| NTCIP Yield + | 0 |
| Leave Walk | |
| Before | TIMED |
| After | TIMED |

Intersection Name: MINNEWAWA @ SHEPHERD

CITY OF CLOVIS

ID: 293

Date Printed: 12/2/2019

[2.4] Patterns

| Pat# | Cyc | Off-Set | Split | Seq |
|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 1 |
| 2 | 0 | 0 | 2 | 1 |
| 3 | 0 | 0 | 3 | 1 |
| 4 | 0 | 0 | 4 | 1 |
| 5 | 0 | 0 | 5 | 1 |
| 6 | 0 | 0 | 6 | 1 |
| 7 | | 0 | 7 | 1 |
| 8 | 0 | 0 | 8 | 1 |
| 9 | 0 | 0 | 9 | 1 |
| 10 | 0 | 0 | 10 | 1 |
| 30 | 0 | 0 | 0 | 1 |
| 31 | 0 | 0 | 0 | 1 |
| 32 | 0 | 0 | 0 | 1 |

[2.7.1-24] Splits

| Split | [2.7] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 2 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 3 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 4 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 5 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 6 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 7 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 8 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 9 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 10 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 30 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 31 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |
| 32 | Split | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Crd-P | | | | | | | | |
| | Mode | NON | NON | NON | NON | NON | NON | NON | NON |

[2.5] Transition

| Pat# | Short | Long | Dwell | No Shortway Ø | | | | E-Yld | Offset | Ret Hold | Flt | Veh | Ped | FRC MODE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 2 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 3 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 4 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 5 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 6 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 7 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 8 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 9 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 10 | 10 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | EndGRN | - | - | - | - | |
| 30 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | |
| 31 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | |
| 32 | | 17 | 0 | 0 | 0 | 0 | 0 | 0 | BegGRN | - | - | - | - | |

## Overlap 1-8 Program Parms & Parm+ [1.5.2.1] [1.5.2.8]

| | | | | |
|---|---|---|---|---|
| 1 | Included Ø | | | NORMAL |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| A | Conflict Olap | | Red | 1 |
| | Conflict Ped | | LG | OFF |
| 2 | Included Ø | | | NORMAL |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| B | Conflict Olap | | Red | 1 |
| | Conflict Ped | | LG | OFF |
| 3 | Included Ø | | | NORMAL |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| C | Conflict Olap | | Red | 1 |
| | Conflict Ped | | LG | OFF |
| 4 | Included Ø | | | NORMAL |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| D | Conflict Olap | | Red | 1 |
| | Conflict Ped | | LG | OFF |
| 5 | Included Ø | | | NORMAL |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| E | Conflict Olap | | Red | 1 |
| | Conflict Ped | | LG | OFF |
| 6 | Included Ø | | | NORMAL |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| F | Conflict Olap | | Red | 1 |
| | Conflict Ped | | LG | OFF |
| 7 | Included Ø | | | NORMAL |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| G | Conflict Olap | | Red | 1 |
| | Conflict Ped | | LG | OFF |
| 8 | Included Ø | | | NORMAL |
| | Modifier Ø | | Grn | |
| | Conflict Ø | | Yel | 3 |
| H | Conflict Olap | | Red | 1 |
| | Conflict Ped | | LG | OFF |

## Unit Parameters [1.2.1]

| | |
|---|---|
| Stop Timer Over Preempt | OFF |
| Preempt or Ext Output | EXT |
| Max Seek Track Time | 0 |
| Max Seek Dwell Time | 0 |

## Channel Parameters [1.8.3]

| | |
|---|---|
| Pre Invert Rail Input | OFF |

## Preemption Options+ [3.Pre #.6]

| Pre # | Enable | Type | Output | Pattern | Skip | Co+Pre | Flash | Max/Min |
|---|---|---|---|---|---|---|---|---|
| 1 | ON | RAIL | TS2 | | OFF | OFF | OFF | MAX |
| 2 | OFF | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 3 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 4 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 5 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |
| 6 | ON | EMERG | TS2 | | OFF | OFF | OFF | MAX |

## Preemption Times [3.#.1]

| Pre # | Delay | MinDura | MaxPres | MinGrn | MinWlk | PedClr | Track Grn | Min Dwell |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | 4 | 19 | | |
| 4 | | | | | 4 | 18 | | |
| 5 | | | | | 4 | 19 | | |
| 6 | | | | | 4 | 20 | | |

## Preemption, Options [3.#.3]

| Pre # | Lock Input | Over-ride Auto Flash | Over-ride Higher Preempt# | Flash Dwell | Link |
|---|---|---|---|---|---|
| 1 | ON | ON | OFF | ON | |
| 2 | OFF | ON | OFF | OFF | |
| 3 | OFF | OFF | OFF | OFF | |
| 4 | OFF | OFF | OFF | OFF | |
| 5 | OFF | OFF | OFF | OFF | |
| 6 | OFF | OFF | OFF | OFF | |

## Preemption, Times+ [3.#.4]

| Pre No. | Extend Dwell | Return Max | Ped Clr | Yel | Red |
|---|---|---|---|---|---|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |

Pre 1 = RR1
Pre 2 = RR2
Pre 3 = EVA
Pre 4 = EVB
Pre 5 = EVC
Pre 6 = EVD

## Phases [3.#.2] - set the Dwell Phases

| Pre # | Column | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Dwell Veh | | | | | | | | | | |
| | Peds | | | | | | | | | | |
| 2 | Dwell Veh | | | | | | | | | | |
| | Peds | | | | | | | | | | |
| 3 | Dwell Veh | 2 | 5 | | | | | | | | |
| | Peds | | | | | | | | | | |
| 4 | Dwell Veh | 4 | 7 | | | | | | | | |
| | Peds | | | | | | | | | | |
| 5 | Dwell Veh | 1 | 6 | | | | | | | | |
| | Peds | | | | | | | | | | |
| 6 | Dwell Veh | 3 | 8 | | | | | | | | |
| | Peds | | | | | | | | | | |

## Phases [3.#.2] - Trk Veh

| Pre # | Phases |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

## Exit Phases [3.#.2]

| No. | Exit Phase | | |
|---|---|---|---|
| 1 | 4 | 8 | |
| 2 | | | |
| 3 | 2 | 6 | |
| 4 | 4 | 8 | |
| 5 | 2 | 6 | |
| 6 | 4 | 8 | |

## Overlaps+ [3.#.5]

| Pre # | | Preempt Overlaps + |
|---|---|---|
| 1 | Track | |
| | Dwell | |
| 2 | Track | |
| | Dwell | |
| 3 | Track | |
| | Dwell | |
| 4 | Track | |
| | Dwell | |
| 5 | Track | |
| | Dwell | |
| 6 | Track | |
| | Dwell | |

## Low Priority Preempts [3.X; where X = 7 thru 10]

| Pre # | Enb | C+P | Lock | NoSkip | Qjump | Times: Alt Tbl | Min | Max | Lock | Priorty Phases | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | OFF | OFF | MAX | OFF | OFF | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | OFF | OFF | MAX | OFF | OFF | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | OFF | OFF | MAX | OFF | OFF | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | OFF | OFF | MAX | OFF | OFF | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## Advance Times [3.X.8]

| | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| YelChng | 0 | 0 | 0 | 0 | 0 | 0 |
| RedClr | 0 | 0 | 0 | 0 | 0 | 0 |
| TrkYelChng | 0 | 0 | 0 | 0 | 0 | 0 |
| TrkRedClr | 0 | 0 | 0 | 0 | 0 | 0 |

## OLP GENERAL PARAMETERS [1.6.1]

| | |
|---|---|
| Lock Inhibit | OFF |
| Conflict Lock Enable | OFF |
| Parent P Clearance | OFF |
| Xtra Incl Phases | OFF |
| InhibitLockInterval | Always |

**PREEMPTION NOTE:** Each preemption has it's own set of menus. To access each menu :
a. Press "3" for preemption
b. Then enter "Preempt number" (1 through 6 and shown as "#" in Schedules above)
c. Then enter "number of Menu item" you want to access (*1-Times, 2-Phases, 3-Options, 4-Times+, 5-Overlaps+ or 6-Options+*)
d. Once in an above menu push Escape once to go back to main preempton menu.

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# CHANNEL SETTINGS [1.8] plus UNIT PARAMETERS [1.2.1]

## CHANNEL SETTINGS [1.8.1]

| Channel | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase / Olap # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 2 | 4 | 6 | 8 |
| Channel Type | VEH | VEH | VEH | VEH | VEH | VEH | VEH | VEH | OLP | OLP | OLP | OLP | PED | PED | PED | PED |
| Channel Flash | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | RED | DRK | DRK | DRK | DRK |
| Flash 1-2 Hertz | | X | | X | | X | | X | | | | | | | | |
| | Page 1 | | | | | | | | Page 2 | | | | | | | |

## Chan Settings [1.8.2]

| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|
| VEH | VEH | VEH | VEH | VEH | VEH | VEH | VEH |
| DRK | DRK | DRK | DRK | DRK | DRK | DRK | DRK |

## CHANNEL PARMETERS [1.8.3]

| | |
|---|---|
| CH 17-24 Mapping: | DEFAULT |
| D-Conn Mapping: | NONE |
| Invert Rail Inputs: | OFF |
| C1-C11-ABC IO Mode: | USER |

## IO PARAMETERS [1.8.6]

| | |
|---|---|
| C1-C11-ABC IO Mode: | USER |
| D-Conn Mapping: | NONE |
| T & F BIU Mapping | DEFAULT |
| Invert Rail Inputs: | OFF |
| EVP Ped Confirm | OFF |

## CHANNELS+ [1.8.4]

| Channel | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flash Red | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Flash Yellow | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Inh Red FI in Preempt | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off |
| Olap Ovrd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

City of CLOVIS

## I/O LOGIC [1.8.7]

| Row# | Result | | Function | | | OP | Function | | | OP | Function | | | OP | Timer | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | I/O | Fcn | Inv | I/0 | Fcn | Logic | Inv | I/0 | Fcn | Logic | Inv | I/0 | Fcn | Logic | Dly | Sec |
| 1 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |
| 2 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |
| 3 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |
| 4 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |
| 5 | I | 0 | - | I | ---- | 0 | - | I | _ | 0 | - | I | ---- | 0 | DLY | 0 |
| 6 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |
| 7 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |
| 8 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |
| 9 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |
| 10 | I | 0 | - | I | ---- | 0 | - | I | ---- | 0 | - | I | ---- | 0 | DLY | 0 |

## Ped Parms (MM>5>4)

| Det# | Call | No Act | Max Pres | Err Cnt |
|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 |
| 2 | 2 | 0 | 5 | 0 |
| 3 | 0 | 0 | 0 | 0 |
| 4 | 4 | 0 | 5 | 0 |
| 5 | 0 | 0 | 0 | 0 |
| 6 | 6 | 0 | 5 | 0 |
| 7 | 0 | 0 | 0 | 0 |
| 8 | 8 | 0 | 5 | 0 |

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| Veh Par 1-32 [5.1] | | | | | | | | | | | Vehicle Options 1-32 [5.2] | | | | | | | | | Parameters+ 1-32 [5.3] | | | | | | | | Info Only | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Det # | Input Slot | Call Ø | Swi Ø | Dlay | Ext | Que | No Act | Max Pres | Err Cnt | Fail Time | Det # | Call | Ext | Que | Add Init | Red Lock | Yell Lock | occ | vol | Det # | Occupancy G | Occupancy Y | Occupancy R | Delay 1 | Delay 2 | Type | Src | Dir | Type | Det # |
| 1 | 1I1U | 1 | | | | | 0 | 0 | 0 | 255 | 1 | X | X | - | - | X | - | - | X | 1 | - | - | - | | | NORM | | NBLT Front | | 1 |
| 2 | 2I2U | 2 | | | 1.4 | | 0 | 0 | 0 | 255 | 2 | X | X | - | - | - | - | - | X | 2 | - | - | - | | | NORM | | SB INT | | 2 |
| 3 | 2I2L | 2 | | | | | 0 | 0 | 0 | 255 | 3 | X | X | - | - | - | - | - | X | 3 | - | - | - | | | NORM | | SB FAR | | 3 |
| 4 | 2I3U | 2 | | 10.0 | | | 0 | 0 | 0 | 255 | 4 | X | X | - | - | - | - | - | X | 4 | - | - | - | | | NORM | | SBRT | | 4 |
| 5 | 2I3L | 2 | | | 2.0 | | 0 | 0 | 0 | 255 | 5 | X | X | - | - | - | - | - | - | 5 | - | - | - | | | NORM | | SB BIKE | | 5 |
| 6 | 2I4U | 2 | | | 2.0 | 20 | 0 | 0 | 0 | 255 | 6 | X | - | X | - | - | - | - | X | 6 | - | - | - | | | NORM | | SB Front | | 6 |
| 7 | 3I5U | 3 | | | | | 0 | 0 | 0 | 255 | 7 | X | X | - | - | X | - | - | X | 7 | - | - | - | | | NORM | | EBLT Front | | 7 |
| 8 | 4I6U | 4 | | | 1.5 | | 0 | 0 | 0 | 255 | 8 | X | X | - | - | - | - | - | X | 8 | - | - | - | | | NORM | | WB INT | | 8 |
| 9 | 4I6L | 4 | | | | | 0 | 0 | 0 | 255 | 9 | X | X | - | - | - | - | - | X | 9 | - | - | - | | | NORM | | WB FAR | | 9 |
| 10 | 4I7U | 4 | | 10.0 | | | 0 | 0 | 0 | 255 | 10 | X | X | - | - | - | - | - | X | 10 | - | - | - | | | NORM | | WBRT | | 10 |
| 11 | 4I7L | 4 | | | 2.0 | | 0 | 0 | 0 | 255 | 11 | X | X | - | - | X | - | - | - | 11 | - | - | - | | | NORM | | WB BIKE | | 11 |
| 12 | 4I8U | 4 | | | 2.0 | 20 | 0 | 0 | 0 | 255 | 12 | X | - | X | - | - | - | - | X | 12 | - | - | - | | | NORM | | WB Front | | |
| 13 | 1I9U | 1 | | | | | 0 | 0 | 0 | 255 | 13 | X | X | - | - | X | - | - | - | 13 | - | - | - | | | NORM | | NBLT Loops | | |
| 14 | 3I9L | 3 | | | | | 0 | 0 | 0 | 255 | 14 | X | X | - | - | X | - | - | - | 14 | - | - | - | | | NORM | | EBLT Loops | | 14 |
| 15 | 5J1U | 5 | | | | | 0 | 0 | 0 | 255 | 15 | X | X | - | - | X | - | - | X | 15 | - | - | - | | | NORM | | SBLT Front | | 15 |
| 16 | 6J2U | 6 | | | 1.2 | | 0 | 0 | 0 | 255 | 16 | - | X | - | - | - | - | - | X | 16 | - | - | - | | | NORM | | NB INT | | 16 |
| 17 | 6J2L | 6 | | | 0.7 | | 0 | 0 | 0 | 255 | 17 | X | X | - | - | - | - | - | X | 17 | - | - | - | | | NORM | | NB FAR | | 17 |
| 18 | 6J3U | 6 | | 10.0 | | | 0 | 0 | 0 | 255 | 18 | X | X | - | - | - | - | - | X | 18 | - | - | - | | | NORM | | NBRT | | 18 |
| 19 | 6J3L | 6 | | | 2.0 | | 0 | 0 | 0 | 255 | 19 | X | X | - | - | X | - | - | - | 19 | - | - | - | | | NORM | | NB BIKE | | 19 |
| 20 | 6J4U | 6 | | | 2.0 | 20 | 0 | 0 | 0 | 255 | 20 | X | - | X | - | - | - | - | X | 20 | - | - | - | | | NORM | | NB Front | | 20 |
| 21 | 7J5U | 7 | | | | | 0 | 0 | 0 | 255 | 21 | X | X | - | - | X | - | - | X | 21 | - | - | - | | | NORM | | WBLT Front | | 21 |
| 22 | 8J6U | 8 | | | 1.4 | | 0 | 0 | 0 | 255 | 22 | X | X | - | - | - | - | - | X | 22 | - | - | - | | | NORM | | EB INT | | 22 |
| 23 | 8J6L | 8 | | | 0.1 | | 0 | 0 | 0 | 255 | 23 | X | X | - | - | - | - | - | X | 23 | - | - | - | | | NORM | | EB FAR | | 23 |
| 24 | 8J7U | 8 | | 10.0 | | | 0 | 0 | 0 | 255 | 24 | X | X | - | - | - | - | - | X | 24 | - | - | - | | | NORM | | EBRT | | 24 |
| 25 | 8J7L | 8 | | | 2.0 | 20 | 0 | 0 | 0 | 255 | 25 | X | - | X | - | - | - | - | - | 25 | - | - | - | | | NORM | | EB Back | | 25 |
| 26 | 8J8U | 8 | | | 2.0 | 20 | 0 | 0 | 0 | 255 | 26 | X | - | X | - | - | - | - | X | 26 | - | - | - | | | NORM | | EB #1 Front | | 26 |
| 27 | 5J9U | 5 | | | | | 0 | 0 | 0 | 255 | 27 | X | X | - | - | X | - | - | - | 27 | - | - | - | | | NORM | | SBLT Loops | | 27 |
| 28 | 7J9L | 7 | | | | | 0 | 0 | 0 | 255 | 28 | X | X | - | - | X | - | - | - | 28 | - | - | - | | | NORM | | WBLT Loops | | 28 |
| 29 | 2I11U | 2 | | | | | 0 | 0 | 0 | 255 | 29 | - | - | - | - | - | - | - | - | 29 | - | - | - | | | BIKE | | Not in Use | | 29 |
| 30 | 4I11L | 4 | | | | | 0 | 0 | 0 | 255 | 30 | - | - | - | - | - | - | - | - | 30 | - | - | - | | | BIKE | | Not in Use | | |
| 31 | 6J11U | 6 | | | | | 0 | 0 | 0 | 255 | 31 | - | - | - | - | - | - | - | - | 31 | - | - | - | | | BIKE | | Not in Use | | 31 |
| 32 | 8J11L | 8 | | | | | 0 | 0 | 0 | 255 | 32 | - | - | - | - | - | - | - | - | 32 | - | - | - | | | BIKE | | Not in Use | | 32 |
| 33 | 1I1L | 1 | | | | | 0 | 0 | 0 | 255 | 33 | X | X | - | - | X | - | - | X | 33 | - | - | - | | | NORM | | Not in Use | | 33 |
| 34 | 2I4L | 2 | | | 2.0 | 20 | 0 | 0 | 0 | 255 | 34 | X | - | X | - | - | - | - | - | 34 | - | - | - | | | NORM | | SB Back | | 34 |
| 35 | 3I5L | 3 | | | | | 0 | 0 | 0 | 255 | 35 | X | X | - | - | X | - | - | X | 35 | - | - | - | | | NORM | | Not in Use | | 35 |
| 36 | 4I8L | 4 | | | 2.0 | 20 | 0 | 0 | 0 | 255 | 36 | X | - | X | - | - | - | - | - | 36 | - | - | - | | | NORM | | WB Back | | 36 |
| 37 | 5J1L | 5 | | | | | 0 | 0 | 0 | 255 | 37 | X | X | - | - | X | - | - | X | 37 | - | - | - | | | NORM | | Not in Use | | 37 |
| 38 | 6J4L | 6 | | | 2.0 | 20 | 0 | 0 | 0 | 255 | 38 | X | - | X | - | - | - | - | X | 38 | - | - | - | | | NORM | | NB Back | | 38 |
| 39 | 7J5L | 7 | | | | | 0 | 0 | 0 | 255 | 39 | X | X | - | - | X | - | - | X | 39 | - | - | - | | | NORM | | Not in Use | | 39 |
| 40 | 8J8L | 8 | | | 2.0 | 20 | 0 | 0 | 0 | 255 | 40 | X | - | X | - | - | - | - | X | 40 | - | - | - | | | NORM | | EB #2 Front | | 40 |
| 41 | 4I10U | 4 | | | | | 0 | 0 | 0 | 255 | 41 | - | X | - | - | - | - | - | - | 41 | - | - | - | | | NORM | | Not in Use | | 41 |
| 42 | 4I10L | 4 | | | | | 0 | 0 | 0 | 255 | 42 | - | X | - | - | - | - | - | - | 42 | - | - | - | | | NORM | | Not in Use | | 42 |
| 43 | 8J10U | 8 | | | | | 0 | 0 | 0 | 255 | 43 | - | X | - | - | - | - | - | - | 43 | - | - | - | | | NORM | | Not in Use | | 43 |
| 44 | 8J10L | 8 | | | | | 0 | 0 | 0 | 255 | 44 | - | X | - | - | - | - | - | - | 44 | - | - | - | | | NORM | | Not in Use | | 44 |

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### Alt# 1 Times Table [1.1.6.1]

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

### Alt# 2 Times Table [1.1.6.1]

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

### Alt# 3 Times Table [1.1.6.1]

| Column#... -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Min Grn | | | | | | | | |
| Gap, Ext | | | | | | | | |
| Max 1 | | | | | | | | |
| Max 2 | | | | | | | | |
| Yel Clr | | | | | | | | |
| Red Clr | | | | | | | | |
| Walk | | | | | | | | |
| Ped Clr | | | | | | | | |

### Alt# 1 Options Table [1.1.6.2]

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Lock Calls | - | - | - | - | - | - | - | - |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Entry | - | - | - | - | - | - | - | - |
| Enabl SimGap | X | X | X | X | X | X | X | X |
| Guar Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | X | X | X | X | X | X | X | X |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |
| Conflicting Ø2 | | | | | | | | |

### Alt# 2 Options Table [1.1.6.2]

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | X | X | X | X | X | X | X | X |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Enrty | - | - | - | - | - | - | - | - |
| Enabl SimGap | X | X | X | X | X | X | X | X |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |
| Conflicting Ø2 | | | | | | | | |

### Alt# 3 Options Table [1.1.6.2]

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | X | X | X | X | X | X | X | X |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Enrty | - | - | - | - | - | - | - | - |
| Enabl SimGap | X | X | X | X | X | X | X | X |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |
| Conflicting Ø2 | | | | | | | | |

### Alt# 4 Options Table [1.1.6.2]

| Column # -> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Assign Ø | | | | | | | | |
| Lock Calls | X | X | X | X | X | X | X | X |
| Soft Recall | - | - | - | - | - | - | - | - |
| Dual Entry | - | - | - | - | - | - | - | - |
| Enabl SimGap | X | X | X | X | X | X | X | X |
| Gaur Passage | - | - | - | - | - | - | - | - |
| Rest In Walk | - | - | - | - | - | - | - | - |
| Cond Service | - | - | - | - | - | - | - | - |
| Reservice | - | - | - | - | - | - | - | - |
| Non-Act 1 | - | - | - | - | - | - | - | - |
| Red Rest | - | - | - | - | - | - | - | - |
| Max2 | - | - | - | - | - | - | - | - |
| Ped Delay | - | - | - | - | - | - | - | - |
| Conflicting Ø1 | | | | | | | | |
| Conflicting Ø2 | | | | | | | | |

### Alternate Tables [2.6]

| Pat# | POpt | PTime | DetGrp | Call/Inh | Olp Off 1 2 3 4 5 6 7 8 | ASC | CNA1 | Max2 | Dia |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | 0 | Off | | DFT |
| 2 | | | | | | 0 | Off | | DFT |
| 3 | | | | | | 0 | Off | | DFT |
| 4 | | | | | | 0 | Off | | DFT |
| 5 | | | | | | 0 | Off | | DFT |
| 6 | | | | | | 0 | Off | | DFT |
| 7 | | | | | | 0 | Off | | DFT |
| 8 | | | | | | 0 | Off | | DFT |
| 9 | | | | | | 0 | Off | | DFT |
| 10 | 1 | | | | | 0 | Off | | DFT |
| 11 | | | | | | 0 | Off | | DFT |
| 12 | | | | | | 0 | Off | | DFT |
| 13 | | | | | | 0 | Off | | DFT |
| 14 | | | | | | 0 | Off | | DFT |
| 15 | | | | | | 0 | Off | | DFT |
| 16 | | | | | | 0 | Off | | DFT |
| 17 | | | | | | 0 | Off | | DFT |
| 18 | | | | | | 0 | Off | | DFT |
| 19 | | | | | | 0 | Off | | DFT |
| 20 | | | | | | 0 | Off | | DFT |
| 21 | | | | | | 0 | Off | | DFT |
| 22 | | | | | | 0 | Off | | DFT |
| 23 | | | | | | 0 | Off | | DFT |
| 24 | | | | | | 0 | Off | | DFT |

### Time Base Parameters [4.6]

| | | |
|---|---|---|
| Daylight Savings Time | DISABLE | |
| Time Base Sync Ref | 0 | |
| GMT Offset | - | 0 |
| Daylight Savings | Mon | Week |
| Spring | 3 | 2 |
| Fall | 11 | 1 |

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## Annual Schedule [4.3]

| | Month | | | | | | | | | | | | Day of Week | | | | | | | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | Day | Link |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | J | F | M | A | M | J | J | A | S | O | N | D | S | M | T | W | T | F | S | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Plan | To |
| 1 | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 1 | 0 |
| 2 | X | X | X | X | X | X | X | X | X | X | X | X | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 2 | 0 |
| 3 | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 3 | 0 |
| 4 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 0 |
| 5 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 0 |
| 6 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 0 |
| 7 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 0 |
| 8 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 0 |
| 9 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 0 |
| 10 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 0 |
| 11 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 0 |
| 12 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 0 |

## DAY PLANS [4.4]

| Plan 1 | | | | Plan 2 | | | | Plan 3 | | | | Plan 4 | | | | Plan 5 | | | | Plan 6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hr | Min | Act | Evt | Hour | Min | Act |
| 1 | | 1 | 10 | 1 | | 1 | 10 | 1 | | 1 | 10 | 1 | | | | 1 | | | | 1 | 0 | 0 | 0 |
| 2 | 5 | 30 | 54 | 2 | 5 | 30 | 10 | 2 | 5 | 30 | 10 | 2 | | | | 2 | | | | 2 | 0 | 0 | 0 |
| 3 | 6 | 30 | 54 | 3 | 6 | 30 | 54 | 3 | 6 | 30 | 10 | 3 | | | | 3 | | | | 3 | 0 | 0 | 0 |
| 4 | 9 | | 54 | 4 | 9 | | 54 | 4 | 7 | | 54 | 4 | | | | 4 | | | | 4 | 0 | 0 | 0 |
| 5 | 14 | 45 | 54 | 5 | 14 | 45 | 54 | 5 | 14 | 45 | 54 | 5 | | | | 5 | | | | 5 | 0 | 0 | 0 |
| 6 | 19 | | 54 | 6 | 19 | | 54 | 6 | 19 | | 54 | 6 | | | | 6 | | | | 6 | 0 | 0 | 0 |
| 7 | 23 | | 10 | 7 | 23 | | 10 | 7 | 22 | | 10 | 7 | | | | 7 | | | | 7 | 0 | 0 | 0 |
| 8 | | | | 8 | | | | 8 | | | | 8 | | | | 8 | | | | 8 | 0 | 0 | 0 |

| Plan 7 | | | | Plan 8 | | | | Plan 9 | | | | Plan 10 | | | | Plan 11 | | | | Plan 12 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hour | Min | Act | Evt | Hr | Min | Act | Evt | Hour | Min | Act |
| 1 | | | | 1 | | | | 1 | | | | 1 | | | | 1 | | | | 1 | 0 | 0 | 0 |
| 2 | | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | | 2 | 0 | 0 | 0 |
| 3 | | | | 3 | | | | 3 | | | | 3 | | | | 3 | | | | 3 | 0 | 0 | 0 |
| 4 | | | | 4 | | | | 4 | | | | 4 | | | | 4 | | | | 4 | 0 | 0 | 0 |
| 5 | | | | 5 | | | | 5 | | | | 5 | | | | 5 | | | | 5 | 0 | 0 | 0 |
| 6 | | | | 6 | | | | 6 | | | | 6 | | | | 6 | | | | 6 | 0 | 0 | 0 |
| 7 | | | | 7 | | | | 7 | | | | 7 | | | | 7 | | | | 7 | 0 | 0 | 0 |
| 8 | | | | 8 | | | | 8 | | | | 8 | | | | 8 | | | | 8 | 0 | 0 | 0 |

Comments:

## Minute Table [4.5]

| Act | Pat# | A1 | A2 | A3 | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | P1 | P2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 11 | 0 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 12 | 0 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 13 | 0 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 14 | 0 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 15 | 0 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 16 | 0 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 54 | 254 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 55 | 255 | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |

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| # | Alarm | Ev | Alr |
|---|---|---|---|
| 1 | Power Up Alarm. | X | X |
| 2 | Stop Timing | X | X |
| 3 | Cabinet Door Activation | - | - |
| 4 | Coordination Failure | X | X |
| 5 | External Alarm # 1 | - | - |
| 6 | External Alarm # 2 | - | - |
| 7 | External Alarm # 3 | - | - |
| 8 | External Alarm # 4 | - | - |
| 9 | Closed Loop Disabled | - | - |
| 10 | External Alarm # 5 | - | - |
| 11 | External Alarm # 6 | - | - |
| 12 | Manual Control Enable | X | X |
| 13 | Coord Free Input | - | - |
| 14 | Local Flash Input | X | X |
| 15 | CMU/MMU Flash Input | - | - |
| 16 | MMU Fault | - | - |
| 17 | Cycle Fault | X | X |
| 18 | Cycle Failure | X | X |
| 19 | Coordination Fault | X | X |
| 20 | Controller Fault | X | X |
| 21 | Detector SDLC Fault | - | - |
| 22 | MMU SDLC Fault | - | - |
| 23 | Critical SDLC Fault | - | - |
| 24 | SDLC Res. Frame Fault | - | - |
| 25 | EEPROM CRC Fault | X | X |
| 26 | Detector Diagnostic Fault | - | - |
| 27 | Detector Fault from SDLC | - | - |
| 28 | Queue detector alarm | - | - |
| 29 | Ped Fault | - | - |
| 30 | Coord Diagnostic Fault | X | X |
| 37 | Download Request | X | X |
| 38 | Pattern Change | - | - |
| 49 | Preempt 1 Input | X | X |
| 50 | Preempt 2 Input | - | - |
| 51 | Preempt 3 Input | X | X |
| 52 | Preempt 4 Input | X | X |
| 53 | Preempt 5 Input | X | X |
| 54 | Preempt 6 Input | X | X |
| 55 | Preempt 7 Input | - | - |
| 56 | Preempt 8 Input | - | - |
| 57 | Preempt 9 Input | - | - |
| 58 | Preempt 10 Input | - | - |
| 59 | EEPROM Compare Fault | - | - |
| 60 | Coordination Failure | X | X |
| 73 | Controller Access | X | X |
| 81 | FIO Changed Status | X | X |

**Call Phases[1.1.5]**

| Ø | Phases Called By Ø |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |
| 11 | |
| 12 | |
| 13 | |
| 14 | |
| 15 | |
| 16 | |

**Redirect Phases[1.1.5]**

| | From | To | From | To | From | To | From | To |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |

**Inhibit Phases[1.1.5]**

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 15 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Alt Call & Redirect # 1 [1.1.6.3]**

| Col | Ø | Phases Called By Ø |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

| | From | To | From | To | From | To | From | To |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |

**Alt Inhibit Phases # 1 [1.1.6.3]**

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Alt Call & Redirect # 2 [1.1.6.3]**

| Col | Ø | Phases Called By Ø |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

| | From | To | From | To | From | To | From | To |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |

**Alt Inhibit Phases # 2 [1.1.6.3]**

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Alarm Parameters [1.6.7.1]**

| | |
|---|---|
| Preempt Events Enable: | ON |
| Loc Pattern Event Enable: | ON |
| Reassign User Alarm #1 In (5): | 0 |
| Reassign User Alarm #2 In (6): | 0 |
| Local Txmt Alarms: | OFF |
| Mon/Flash Alarm Delay: | 15 |

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I/O Inputs - 1.8.9.1.5

| C-1 PIN | I/O Source | Function | Input Name |
|---|---|---|---|
| 39 | I1-1 | 2 | Veh Det 2 |
| 40 | I1-2 | 16 | Veh Det 16 |
| 41 | I1-3 | 8 | Veh Det 8 |
| 42 | I1-4 | 22 | Veh Det 22 |
| 43 | I1-5 | 3 | Veh Det 3 |
| 44 | I1-6 | 17 | Veh Det 17 |
| 45 | I1-7 | 9 | Veh Det 9 |
| 46 | I1-8 | 23 | Veh Det 23 |
| 47 | I2-1 | 6 | Veh Det 6 |
| 48 | I2-2 | 20 | Veh Det 20 |
| 49 | I2-3 | 12 | Veh Det 12 |
| 50 | I2-4 | 26 | Veh Det 26 |
| 51 | I2-5 | 198 | Pre 1 In |
| 52 | I2-6 | 199 | Pre 2 In |
| 53 | I2-7 | 189 | Unused |
| 54 | I2-8 | 189 | Unused |
| 55 | I3-1 | 15 | Veh Det 15 |
| 56 | I3-2 | 1 | Veh Det 1 |
| 57 | I3-3 | 21 | Veh Det 21 |
| 58 | I3-4 | 7 | Veh Det 7 |
| 59 | I3-5 | 27 | Veh Det 27 |
| 60 | I3-6 | 13 | Veh Det 13 |
| 61 | I3-7 | 28 | Veh Det 28 |
| 62 | I3-8 | 14 | Veh Det 14 |
| 63 | I4-1 | 4 | Veh Det 4 |
| 64 | I4-2 | 18 | Veh Det 18 |
| 65 | I4-3 | 10 | Veh Det 10 |
| 66 | I4-4 | 24 | Veh Det 24 |
| 67 | I5-1 | 130 | Ped Call 2 |
| 68 | I5-2 | 134 | Ped Call 6 |
| 69 | I5-3 | 132 | Ped Call 4 |
| 70 | I5-4 | 136 | Ped Call 8 |
| 71 | I5-5 | 200 | Pre 3 In |
| 72 | I5-6 | 201 | Pre 4 In |
| 73 | I5-7 | 202 | Pre 5 In |
| 74 | I5-8 | 203 | Pre 6 In |
| 75 | I6-1 | 189 | Unused |
| 76 | I6-2 | 5 | Veh Det 5 |
| 77 | I6-3 | 19 | Veh Det 19 |
| 78 | I6-4 | 11 | Veh Det 11 |
| 79 | I6-5 | 25 | Veh Det 25 |
| 80 | I6-6 | 178 | Int Advance |
| 81 | I6-7 | 208 | Local Flash |
| 82 | I6-8 | 207 | Comp StopTm |

I/O OUTPU - 1.8.9.2.5

| C-1 PIN | I/O Source | Function | Output Name |
|---|---|---|---|
| 1 | Logic Grd | | |
| 2 | O1-1 | 14 | Red Ch 14 |
| 3 | O1-2 | 62 | Grn Chan 14 |
| 4 | O1-3 | 4 | Red Ch 4 |
| 5 | O1-4 | 28 | Yel Chan 4 |
| 6 | O1-5 | 52 | Grn Chan 4 |
| 7 | O1-6 | 3 | Red Ch 3 |
| 8 | O1-7 | 27 | Yel Chan 3 |
| 9 | O1-8 | 51 | Grn Chan 3 |
| 10 | O2-1 | 13 | Red Ch 13 |
| 11 | O2-2 | 61 | Grn Chan 13 |
| 12 | O2-3 | 2 | Red Ch 2 |
| 13 | O2-4 | 26 | Yel Chan 2 |
| 14 | Logic Grd | | |
| 15 | O2-5 | 50 | Grn Chan 2 |
| 16 | O2-6 | 1 | Red Ch 1 |
| 17 | O2-7 | 25 | Yel Chan 1 |
| 18 | O2-8 | 49 | Grn Chan 1 |
| 19 | O3-1 | 16 | Red Ch 16 |
| 20 | O3-2 | 64 | Grn Chan 16 |
| 21 | O3-3 | 8 | Red Ch 8 |
| 22 | O3-4 | 32 | Yel Chan 8 |
| 23 | O3-5 | 56 | Grn Chan 8 |
| 24 | O3-6 | 7 | Red Ch 7 |
| 25 | O3-7 | 31 | Yel Chan 7 |
| 26 | O3-8 | 55 | Grn Chan 7 |
| 27 | O4-1 | 15 | Red Ch 15 |
| 28 | O4-2 | 63 | Grn Chan 15 |
| 29 | O4-3 | 6 | Red Ch 6 |
| 30 | O4-4 | 30 | Yel Chan 6 |
| 31 | O4-5 | 54 | Grn Chan 6 |
| 32 | O4-6 | 5 | Red Ch 5 |
| 33 | O4-7 | 29 | Yel Chan 5 |
| 34 | O4-8 | 53 | Grn Chan 5 |
| 35 | O5-1 | 37 | Yel Chan 13 |
| 36 | O5-2 | 39 | Yel Chan 15 |
| 37 | O5-3 | 38 | Yel Chan 14 |
| 38 | O5-4 | 40 | Yel Chan 16 |
| 100 | O5-5 | 42 | Yel Chan 18 |
| 101 | O5-6 | 41 | Yel Chan 17 |
| 102 | O5-7 | 115 | Not Used |
| 103 | O5-8 | 114 | Watchdog |

| C-1 PIN | I/O Source | Function | Output Name |
|---|---|---|---|
| 83 | O6-1 | 18 | Red Ch 18 |
| 84 | O6-2 | 66 | Grn Chan 18 |
| 85 | O6-3 | 12 | Red Ch 12 |
| 86 | O6-4 | 36 | Yel Chan 12 |
| 87 | O6-5 | 60 | Grn Chan 12 |
| 88 | O6-6 | 11 | Red Ch 11 |
| 89 | O6-7 | 35 | Yel Chan 11 |
| 90 | O6-8 | 59 | Grn Chan 11 |
| 91 | O7-1 | 17 | Red Ch 17 |
| 92 | Logic Grd | | |
| 93 | O7-2 | 65 | Grn Chan 17 |
| 94 | O7-3 | 10 | Red Ch 10 |
| 95 | O7-4 | 34 | Yel Chan 10 |
| 96 | O7-5 | 58 | Grn Chan 10 |
| 97 | O7-6 | 9 | Red Ch 9 |
| 98 | O7-7 | 33 | Yel Chan 9 |
| 99 | O7-8 | 57 | Grn Chan 9 |

I/O Outputs - 1.8.9.2.5

C-11 OUTPUTS

| | | | |
|---|---|---|---|
| 1 | O8-1 | 115 | Not Used |
| 2 | O8-2 | 115 | Not Used |
| 3 | O8-3 | 115 | Not Used |
| 4 | O8-4 | 115 | Not Used |

I/O Inputs - 1.8.9.1.5

C-11 INPUTS

| | | | |
|---|---|---|---|
| 15 | I7-1 | 33 | Veh Det 33 |
| 16 | I7-2 | 34 | Veh Det 34 |
| 17 | I7-3 | 35 | Veh Det 35 |
| 18 | I7-4 | 36 | Veh Det 36 |
| 19 | I7-5 | 37 | Veh Det 37 |
| 20 | I7-6 | 38 | Veh Det 38 |
| 21 | I7-7 | 39 | Veh Det 39 |
| 22 | I7-8 | 40 | Veh Det 40 |
| 23 | I8-1 | 41 | Veh Det 41 |
| 24 | I8-2 | 42 | Veh Det 42 |
| 25 | I8-3 | 43 | Veh Det 43 |
| 26 | I8-4 | 44 | Veh Det 44 |
| 27 | I8-5 | 189 | Unused |
| 28 | I8-6 | 189 | Unused |
| 29 | I8-7 | 189 | Unused |
| 30 | I8-8 | 189 | Unused |

City of CLOVIS

ID: 293

NAME: MINNEWAWA @ SHEPHERD

Date Printed: 12/2/2019

ID NUMBER: C0293

LOCATION: MINNEWAWA and SHEPHERD

T. Barker
6/22/2020

CITY OF CLOVIS
332L CABINET
44 DETECTOR SETUP

DETECTOR ASSIGNMENTS

| | NBLT | SB INT | SBRT | SB NEAR | EBLT | WB INT | WBRT | WB NEAR | EBRT | EB NEAR | EB FAR | | NB FAR | BIKE LANE | NB NEAR | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 110 | 111 | | | | | | |
| LOWER | Ph 5<br>Call & Ext<br>T3-3 & 4<br>C11-19<br>DET 37<br>RED LOCK | Ph 6<br>Call & Ext<br>T3-7 & 8<br>C1-44<br>DET 17 | 07<br>RED LOCK | Ph 6<br>Call & Ext<br>T3-11 & 12<br>C1-77<br>DET 19 | 20<br>QUEUE | Ph 8<br>Call & Ext<br>T5-11 & 12<br>C1-46<br>DET 23 | 01<br>QUEUE | Ph 8<br>Call & TP3<br>T7-3 & 4<br>C1-79<br>DET 25 | 20<br>QUEUE<br>BACK | Ph 8<br>Call & TP3<br>T7-7 & 8<br>C11-22<br>DET 40 | 20<br>QUEUE<br>#2 LANE | RED LOCK | Ph 7<br>Call & Ext<br>T5-7 & 8<br>C11-21<br>DET 39 | RED LOCK | Ph 6<br>Call & TP3<br>T5-3 & 4<br>C11-20<br>DET 38 | 20<br>QUEUE<br>BACK | Ph 6<br>Call & Ext<br>T3-11 & 12<br>C1-77<br>DET 19 | 20<br>QUEUE<br>RED LOCK | Ph 6<br>Call & Ext<br>T3-7 & 8<br>C1-44<br>DET 17 | 07<br>RED LOCK | Ph 5<br>Call & Ext<br>T3-3 & 4<br>C11-19<br>DET 37<br>RED LOCK | LOWER |
| UPPER | FRONT<br>RED LOCK<br>Ph 1<br>Call & Ext<br>T2-1 & 2<br>C1-56<br>DET 1 | Ph 2<br>Call & Ext<br>T2-5 & 6<br>C1-39<br>DET 2 | Ph 2<br>Call & Ext<br>T2-9 & 10<br>C1-63<br>DET 4 | Ph 2<br>Call & TP3<br>T4-1 & 2<br>C1-47<br>DET 6 | Ph 3<br>Call & Ext<br>T4-5 & 6<br>C1-58<br>DET 7 | Ph 4<br>Call & Ext<br>T4-9 & 10<br>C1-41<br>DET 8 | Ph 4<br>Call & Ext<br>T6-1 & 2<br>C1-65<br>DET 10 | Ph 4<br>Call & TP3<br>T6-5 & 6<br>C1-49<br>DET 12 | Ph 1<br>Call & Ext<br>T6-9 & 10<br>C1-60<br>DET 13 | Ph 2/4<br>Ext<br>T10-5 & 6<br>C11-23<br>DET 41 | Ph 2<br>Call & Ext<br>T8-1<br>C1-80<br>DET 29 | PED CALL<br>T8-4<br>C1-67 | Ph 2<br>Call & Ext<br>T8-9 & 10<br>C1-67 | FRONT<br>RED LOCK | FRONT<br>Queue 20<br>10 0 Sec | 14<br>RED LOCK | FRONT<br>Queue 20<br>10 0 Sec | 14<br>RED LOCK | FRONT<br>RED LOCK<br>Ph 1<br>Call & Ext<br>T2-1 & 2<br>C1-56<br>DET 1 | UPPER |
| LOWER | Ph 1<br>Call & Ext<br>T2-3 & 4<br>C11-15<br>DET 33<br>RED LOCK | Ph 2<br>Call & Ext<br>T2-7 & 8<br>C1-43<br>DET 3 | Ph 2<br>Call & Ext<br>T2-11 & 12<br>C1-76<br>DET 5 | Ph 2<br>Call & TP3<br>T4-3 & 4<br>C11-16<br>DET 34 | Ph 3<br>Call & Ext<br>T4-7 & 8<br>C11-17<br>DET 35 | Ph 4<br>Call & Ext<br>T4-11 & 12<br>C1-45<br>DET 9 | 00<br>RED LOCK | Ph 4<br>Call & Ext<br>T6-3 & 4<br>C1-78<br>DET 11 | 20<br>Queue<br>BACK | Ph 4<br>Call & TP3<br>T6-7 & 8<br>C11-18<br>DET 36 | 20<br>Queue<br>3rd Loop | RED LOCK | Ph 3<br>Call & Ext<br>T6- 11 & 12<br>C1-62<br>DET 14 | RED LOCK | 20<br>Queue<br>BACK | 00<br>RED LOCK | 20<br>Queue<br>BACK | 00<br>RED LOCK | Ph 1<br>Call & Ext<br>T2-3 & 4<br>C11-15<br>DET 33<br>RED LOCK | LOWER |
| | SB FAR | SB BIKE | SB NEAR | WB BIKE | WB FAR | | WB NEAR | | EBLT | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | SBLT | NB INT | NBRT | NB NEAR | WBLT | EB INT | EBRT | EB NEAR | SBLT | | | | | | | | |
| J | J1 | J2 | J3 | J4 | J5 | J6 | J7 | J8 | J9 | J10 | J11 | | | | | | |
| UPPER | Ph 5<br>Call & Ext<br>T3-1 & 2<br>C1-55<br>DET 15<br>RED LOCK | Ph 6<br>Ext<br>T3-5 & 6<br>C1-40<br>DET 16 | Ph 6<br>Call & Ext<br>T3-9 & 10<br>C1-64<br>DET 18 | Ph 6<br>Call & TP3<br>T5-1 & 2<br>C1-48<br>DET 20 | Ph 7<br>Call & Ext<br>T5-5 & 6<br>C1-57<br>DET 21 | Ph 8<br>Call & Ext<br>T5-9 & 10<br>C1-42<br>DET 22 | Ph 8<br>Call & TP3<br>T7-1 & 2<br>C1-66<br>DET 24 | Ph 8<br>Call & TP3<br>T7- 5 & 6<br>C1-50<br>DET 26 | Ph 5<br>Call & Ext<br>T7- 9 & 10<br>C1-59<br>DET 27 | Ph 6/8<br>Ext<br>T10-9 & 10<br>C11-25<br>DET 43 | Ph 6<br>Call & Ext<br>T9-1<br>C1-54<br>DET 31 | PED CALL<br>T9-4<br>C1 - 71 | Ph 2 & 5<br>EVA<br>Preempt<br>T9-5<br>C1 - 72 | LOW<br>BATT<br>RAILROAD<br>1<br>T9-10 | | 12<br>RED LOCK | | 14<br>RED LOCK | FRONT<br>RED LOCK<br>Ph 5<br>Call & Ext<br>T3-1 & 2<br>C1-55<br>DET 15<br>RED LOCK | UPPER |
| LOWER | Ph 5<br>Call & Ext<br>T3-3 & 4<br>C11-19<br>DET 37<br>RED LOCK | Ph 6<br>Call & Ext<br>T3-7 & 8<br>C1-44<br>DET 17 | 07<br>RED LOCK | Ph 6<br>Call & Ext<br>T3-11 & 12<br>C1-77<br>DET 19 | 20<br>QUEUE | Ph 8<br>Call & Ext<br>T5-11 & 12<br>C1-46<br>DET 23 | 01<br>QUEUE | Ph 8<br>Call & TP3<br>T7- 3 & 4<br>C1-79<br>DET 25 | 20<br>QUEUE<br>BACK | Ph 8<br>Call & TP3<br>T7-7 & 8<br>C11-22<br>DET 40 | 20<br>QUEUE<br>#1 LANE | RED LOCK | Ph 7<br>Call & Ext<br>T7-11 & 12<br>C1-61<br>DET 28 | RED LOCK | 20<br>QUEUE<br>BACK | 20<br>QUEUE<br>RED LOCK | 20<br>QUEUE<br>BACK | 20<br>QUEUE<br>RED LOCK | 07<br>RED LOCK | Ph 5<br>Call & Ext<br>T3-3 & 4<br>C11-19<br>DET 37<br>RED LOCK | LOWER |
| | NB FAR | BIKE LANE | NB NEAR | EB FAR | | EB NEAR | EB NEAR | WBLT | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | |

# APPENDIX D

# VOLUME DEVELOPMENT WORKSHEETS

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **1 Willow Avenue/Behymer Avenue** | | | | | | |
| NBL | 103 | 0 | 103 | 119 | 0 | 119 |
| NBT | 693 | 0 | 693 | 731 | 0 | 731 |
| NBR | 31 | 20 | 51 | 54 | 66 | 120 |
| SBL | 66 | 2 | 68 | 95 | 8 | 103 |
| SBT | 611 | 0 | 611 | 560 | 0 | 560 |
| SBR | 54 | 0 | 54 | 40 | 0 | 40 |
| EBL | 80 | 0 | 80 | 21 | 0 | 21 |
| EBT | 129 | 1 | 130 | 104 | 5 | 109 |
| EBR | 182 | 0 | 182 | 121 | 0 | 121 |
| WBL | 32 | 58 | 90 | 55 | 39 | 94 |
| WBT | 135 | 4 | 139 | 138 | 3 | 141 |
| WBR | 135 | 7 | 142 | 119 | 5 | 124 |
| North Leg | | | | | | |
| Approach | 731 | 2 | 733 | 695 | 8 | 703 |
| Departure | 908 | 7 | 915 | 871 | 5 | 876 |
| Total | 1,639 | 9 | 1,648 | 1,566 | 13 | 1,579 |
| South Leg | | | | | | |
| Approach | 827 | 20 | 847 | 904 | 66 | 970 |
| Departure | 825 | 58 | 883 | 736 | 39 | 775 |
| Total | 1,652 | 78 | 1,730 | 1,640 | 105 | 1,745 |
| East Leg | | | | | | |
| Approach | 302 | 69 | 371 | 312 | 47 | 359 |
| Departure | 226 | 23 | 249 | 253 | 79 | 332 |
| Total | 528 | 92 | 620 | 565 | 126 | 691 |
| West Leg | | | | | | |
| Approach | 391 | 1 | 392 | 246 | 5 | 251 |
| Departure | 292 | 4 | 296 | 297 | 3 | 300 |
| Total | 683 | 5 | 688 | 543 | 8 | 551 |
| Total Approaches | | | | | | |
| Approach | 2,251 | 92 | 2,343 | 2,157 | 126 | 2,283 |
| Departure | 2,251 | 92 | 2,343 | 2,157 | 126 | 2,283 |
| Total | 4,502 | 184 | 4,686 | 4,314 | 252 | 4,566 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **2 Willow Avenue/Perrin Avenue** | | | | | | |
| NBL | 88 | 0 | 88 | 199 | 0 | 199 |
| NBT | 685 | 13 | 698 | 855 | 44 | 899 |
| NBR | 0 | 0 | 0 | 0 | 0 | 0 |
| SBL | 0 | 0 | 0 | 0 | 0 | 0 |
| SBT | 758 | 39 | 797 | 671 | 26 | 697 |
| SBR | 99 | 19 | 118 | 89 | 13 | 102 |
| EBL | 165 | 7 | 172 | 114 | 22 | 136 |
| EBT | 0 | 0 | 0 | 0 | 0 | 0 |
| EBR | 167 | 0 | 167 | 193 | 0 | 193 |
| WBL | 0 | 0 | 0 | 0 | 0 | 0 |
| WBT | 0 | 0 | 0 | 0 | 0 | 0 |
| WBR | 0 | 0 | 0 | 0 | 0 | 0 |
| North Leg | | | | | | |
| Approach | 857 | 58 | 915 | 760 | 39 | 799 |
| Departure | 850 | 20 | 870 | 969 | 66 | 1,035 |
| Total | 1,707 | 78 | 1,785 | 1,729 | 105 | 1,834 |
| South Leg | | | | | | |
| Approach | 773 | 13 | 786 | 1,054 | 44 | 1,098 |
| Departure | 925 | 39 | 964 | 864 | 26 | 890 |
| Total | 1,698 | 52 | 1,750 | 1,918 | 70 | 1,988 |
| East Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| West Leg | | | | | | |
| Approach | 332 | 7 | 339 | 307 | 22 | 329 |
| Departure | 187 | 19 | 206 | 288 | 13 | 301 |
| Total | 519 | 26 | 545 | 595 | 35 | 630 |
| Total Approaches | | | | | | |
| Approach | 1,962 | 78 | 2,040 | 2,121 | 105 | 2,226 |
| Departure | 1,962 | 78 | 2,040 | 2,121 | 105 | 2,226 |
| Total | 3,924 | 156 | 4,080 | 4,242 | 210 | 4,452 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **3 Peach Avenue/Behymer Avenue** | | | | | | |
| NBL | 0 | 48 | 48 | 0 | 33 | 33 |
| NBT | 0 | 0 | 0 | 0 | 0 | 0 |
| NBR | 0 | 0 | 0 | 0 | 0 | 0 |
| SBL | 1 | 0 | 1 | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 | 1 | 0 | 1 |
| EBL | 0 | 0 | 0 | 1 | 0 | 1 |
| EBT | 224 | 22 | 246 | 241 | 71 | 312 |
| EBR | 0 | 2 | 2 | 0 | 8 | 8 |
| WBL | 0 | 2 | 2 | 0 | 8 | 8 |
| WBT | 344 | 21 | 365 | 293 | 14 | 307 |
| WBR | 1 | 0 | 1 | 0 | 0 | 0 |
| North Leg | | | | | | |
| Approach | 1 | 0 | 1 | 1 | 0 | 1 |
| Departure | 1 | 0 | 1 | 1 | 0 | 1 |
| Total | 2 | 0 | 2 | 2 | 0 | 2 |
| South Leg | | | | | | |
| Approach | 0 | 48 | 48 | 0 | 33 | 33 |
| Departure | 0 | 4 | 4 | 0 | 16 | 16 |
| Total | 0 | 52 | 52 | 0 | 49 | 49 |
| East Leg | | | | | | |
| Approach | 345 | 23 | 368 | 293 | 22 | 315 |
| Departure | 225 | 22 | 247 | 241 | 71 | 312 |
| Total | 570 | 45 | 615 | 534 | 93 | 627 |
| West Leg | | | | | | |
| Approach | 224 | 24 | 248 | 242 | 79 | 321 |
| Departure | 344 | 69 | 413 | 294 | 47 | 341 |
| Total | 568 | 93 | 661 | 536 | 126 | 662 |
| Total Approaches | | | | | | |
| Approach | 570 | 95 | 665 | 536 | 134 | 670 |
| Departure | 570 | 95 | 665 | 536 | 134 | 670 |
| Total | 1,140 | 190 | 1,330 | 1,072 | 268 | 1,340 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **4 Minnewawa Avenue/Behymer Avenue** | | | | | | |
| NBL | 65 | 20 | 85 | 61 | 66 | 127 |
| NBT | 240 | 0 | 240 | 259 | 0 | 259 |
| NBR | 19 | 0 | 19 | 30 | 0 | 30 |
| SBL | 175 | 0 | 175 | 187 | 0 | 187 |
| SBT | 207 | 0 | 207 | 168 | 0 | 168 |
| SBR | 3 | 1 | 4 | 2 | 5 | 7 |
| EBL | 4 | 4 | 8 | 2 | 3 | 5 |
| EBT | 155 | 7 | 162 | 192 | 5 | 197 |
| EBR | 67 | 58 | 125 | 43 | 39 | 82 |
| WBL | 25 | 0 | 25 | 15 | 0 | 15 |
| WBT | 220 | 2 | 222 | 225 | 8 | 233 |
| WBR | 253 | 0 | 253 | 179 | 0 | 179 |
| EBU | 0 | 21 | 21 | 0 | 14 | 14 |
| North Leg | | | | | | |
| Approach | 385 | 1 | 386 | 357 | 5 | 362 |
| Departure | 497 | 4 | 501 | 440 | 3 | 443 |
| Total | 882 | 5 | 887 | 797 | 8 | 805 |
| South Leg | | | | | | |
| Approach | 324 | 20 | 344 | 350 | 66 | 416 |
| Departure | 299 | 58 | 357 | 226 | 39 | 265 |
| Total | 623 | 78 | 701 | 576 | 105 | 681 |
| East Leg | | | | | | |
| Approach | 498 | 2 | 500 | 419 | 8 | 427 |
| Departure | 349 | 7 | 356 | 409 | 5 | 414 |
| Total | 847 | 9 | 856 | 828 | 13 | 841 |
| West Leg | | | | | | |
| Approach | 226 | 90 | 316 | 237 | 61 | 298 |
| Departure | 288 | 44 | 332 | 288 | 93 | 381 |
| Total | 514 | 134 | 648 | 525 | 154 | 679 |
| Total Approaches | | | | | | |
| Approach | 1,433 | 113 | 1,546 | 1,363 | 140 | 1,503 |
| Departure | 1,433 | 113 | 1,546 | 1,363 | 140 | 1,503 |
| Total | 2,866 | 226 | 3,092 | 2,726 | 280 | 3,006 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **5 Minnewawa Avenue/Perrin Avenue** | | | | | | |
| NBL | 3 | 0 | 3 | 0 | 0 | 0 |
| NBT | 309 | 20 | 329 | 338 | 66 | 404 |
| NBR | 11 | 0 | 11 | 2 | 0 | 2 |
| SBL | 2 | 0 | 2 | 0 | 0 | 0 |
| SBT | 337 | 58 | 395 | 250 | 39 | 289 |
| SBR | 6 | 0 | 6 | 1 | 0 | 1 |
| EBL | 8 | 0 | 8 | 0 | 0 | 0 |
| EBT | 0 | 0 | 0 | 0 | 0 | 0 |
| EBR | 3 | 0 | 3 | 2 | 0 | 2 |
| WBL | 4 | 0 | 4 | 9 | 0 | 9 |
| WBT | 0 | 0 | 0 | 0 | 0 | 0 |
| WBR | 2 | 0 | 2 | 2 | 0 | 2 |
| North Leg | | | | | | |
| Approach | 345 | 58 | 403 | 251 | 39 | 290 |
| Departure | 319 | 20 | 339 | 340 | 66 | 406 |
| Total | 664 | 78 | 742 | 591 | 105 | 696 |
| South Leg | | | | | | |
| Approach | 323 | 20 | 343 | 340 | 66 | 406 |
| Departure | 344 | 58 | 402 | 261 | 39 | 300 |
| Total | 667 | 78 | 745 | 601 | 105 | 706 |
| East Leg | | | | | | |
| Approach | 6 | 0 | 6 | 11 | 0 | 11 |
| Departure | 13 | 0 | 13 | 2 | 0 | 2 |
| Total | 19 | 0 | 19 | 13 | 0 | 13 |
| West Leg | | | | | | |
| Approach | 11 | 0 | 11 | 2 | 0 | 2 |
| Departure | 9 | 0 | 9 | 1 | 0 | 1 |
| Total | 20 | 0 | 20 | 3 | 0 | 3 |
| Total Approaches | | | | | | |
| Approach | 685 | 78 | 763 | 604 | 105 | 709 |
| Departure | 685 | 78 | 763 | 604 | 105 | 709 |
| Total | 1,370 | 156 | 1,526 | 1,208 | 210 | 1,418 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **6 Minnewawa Avenue/Shepherd Avenue** | | | | | | |
| NBL | 120 | 0 | 120 | 129 | 0 | 129 |
| NBT | 152 | 10 | 162 | 205 | 31 | 236 |
| NBR | 18 | 0 | 18 | 24 | 0 | 24 |
| SBL | 91 | 30 | 121 | 48 | 20 | 68 |
| SBT | 193 | 28 | 221 | 169 | 19 | 188 |
| SBR | 34 | 0 | 34 | 36 | 0 | 36 |
| EBL | 34 | 0 | 34 | 44 | 0 | 44 |
| EBT | 318 | 0 | 318 | 295 | 0 | 295 |
| EBR | 128 | 0 | 128 | 111 | 0 | 111 |
| WBL | 14 | 0 | 14 | 6 | 0 | 6 |
| WBT | 265 | 0 | 265 | 240 | 0 | 240 |
| WBR | 137 | 11 | 148 | 88 | 35 | 123 |
| North Leg | | | | | | |
| Approach | 318 | 58 | 376 | 253 | 39 | 292 |
| Departure | 323 | 21 | 344 | 337 | 66 | 403 |
| Total | 641 | 79 | 720 | 590 | 105 | 695 |
| South Leg | | | | | | |
| Approach | 290 | 10 | 300 | 358 | 31 | 389 |
| Departure | 335 | 28 | 363 | 286 | 19 | 305 |
| Total | 625 | 38 | 663 | 644 | 50 | 694 |
| East Leg | | | | | | |
| Approach | 416 | 11 | 427 | 334 | 35 | 369 |
| Departure | 427 | 30 | 457 | 367 | 20 | 387 |
| Total | 843 | 41 | 884 | 701 | 55 | 756 |
| West Leg | | | | | | |
| Approach | 480 | 0 | 480 | 450 | 0 | 450 |
| Departure | 419 | 0 | 419 | 405 | 0 | 405 |
| Total | 899 | 0 | 899 | 855 | 0 | 855 |
| Total Approaches | | | | | | |
| Approach | 1,504 | 79 | 1,583 | 1,395 | 105 | 1,500 |
| Departure | 1,504 | 79 | 1,583 | 1,395 | 105 | 1,500 |
| Total | 3,008 | 158 | 3,166 | 2,790 | 210 | 3,000 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **7 Peach Avenue/Project Driveway 1** | | | | | | |
| NBL | 0 | 0 | 0 | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 | 0 | 0 | 0 |
| NBR | 0 | 0 | 0 | 0 | 0 | 0 |
| SBL | 0 | 5 | 5 | 0 | 16 | 16 |
| SBT | 0 | 0 | 0 | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 | 0 | 0 | 0 |
| EBT | 0 | 0 | 0 | 0 | 0 | 0 |
| EBR | 0 | 0 | 0 | 0 | 0 | 0 |
| WBL | 0 | 0 | 0 | 0 | 0 | 0 |
| WBT | 0 | 0 | 0 | 0 | 0 | 0 |
| WBR | 0 | 48 | 48 | 0 | 33 | 33 |
| North Leg | | | | | | |
| Approach | 0 | 5 | 5 | 0 | 16 | 16 |
| Departure | 0 | 48 | 48 | 0 | 33 | 33 |
| Total | 0 | 53 | 53 | 0 | 49 | 49 |
| South Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| East Leg | | | | | | |
| Approach | 0 | 48 | 48 | 0 | 33 | 33 |
| Departure | 0 | 5 | 5 | 0 | 16 | 16 |
| Total | 0 | 53 | 53 | 0 | 49 | 49 |
| West Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Approaches | | | | | | |
| Approach | 0 | 53 | 53 | 0 | 49 | 49 |
| Departure | 0 | 53 | 53 | 0 | 49 | 49 |
| Total | 0 | 106 | 106 | 0 | 98 | 98 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **8 Project Driveway 2/Behymer Avenue** | | | | | | |
| NBL | 0 | 0 | 0 | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 | 0 | 0 | 0 |
| NBR | 0 | 21 | 21 | 0 | 14 | 14 |
| SBL | 0 | 0 | 0 | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 | 0 | 0 | 0 |
| EBT | 226 | 17 | 243 | 237 | 55 | 292 |
| EBR | 0 | 5 | 5 | 0 | 16 | 16 |
| WBL | 0 | 0 | 0 | 0 | 0 | 0 |
| WBT | 288 | 23 | 311 | 288 | 22 | 310 |
| WBR | 0 | 0 | 0 | 0 | 0 | 0 |
| North Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| South Leg | | | | | | |
| Approach | 0 | 21 | 21 | 0 | 14 | 14 |
| Departure | 0 | 5 | 5 | 0 | 16 | 16 |
| Total | 0 | 26 | 26 | 0 | 30 | 30 |
| East Leg | | | | | | |
| Approach | 288 | 23 | 311 | 288 | 22 | 310 |
| Departure | 226 | 38 | 264 | 237 | 69 | 306 |
| Total | 514 | 61 | 575 | 525 | 91 | 616 |
| West Leg | | | | | | |
| Approach | 226 | 22 | 248 | 237 | 71 | 308 |
| Departure | 288 | 23 | 311 | 288 | 22 | 310 |
| Total | 514 | 45 | 559 | 525 | 93 | 618 |
| Total Approaches | | | | | | |
| Approach | 514 | 66 | 580 | 525 | 107 | 632 |
| Departure | 514 | 66 | 580 | 525 | 107 | 632 |
| Total | 1,028 | 132 | 1,160 | 1,050 | 214 | 1,264 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **9 Project Driveway 3/Behymer Avenue** | | | | | | |
| NBL | 0 | 0 | 0 | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 | 0 | 0 | 0 |
| NBR | 0 | 28 | 28 | 0 | 19 | 19 |
| SBL | 0 | 0 | 0 | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 | 0 | 0 | 0 |
| EBT | 226 | 28 | 254 | 237 | 38 | 275 |
| EBR | 0 | 10 | 10 | 0 | 31 | 31 |
| WBL | 0 | 22 | 22 | 0 | 71 | 71 |
| WBT | 288 | 23 | 311 | 288 | 22 | 310 |
| WBR | 0 | 0 | 0 | 0 | 0 | 0 |
| North Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| South Leg | | | | | | |
| Approach | 0 | 28 | 28 | 0 | 19 | 19 |
| Departure | 0 | 32 | 32 | 0 | 102 | 102 |
| Total | 0 | 60 | 60 | 0 | 121 | 121 |
| East Leg | | | | | | |
| Approach | 288 | 45 | 333 | 288 | 93 | 381 |
| Departure | 226 | 56 | 282 | 237 | 57 | 294 |
| Total | 514 | 101 | 615 | 525 | 150 | 675 |
| West Leg | | | | | | |
| Approach | 226 | 38 | 264 | 237 | 69 | 306 |
| Departure | 288 | 23 | 311 | 288 | 22 | 310 |
| Total | 514 | 61 | 575 | 525 | 91 | 616 |
| Total Approaches | | | | | | |
| Approach | 514 | 111 | 625 | 525 | 181 | 706 |
| Departure | 514 | 111 | 625 | 525 | 181 | 706 |
| Total | 1,028 | 222 | 1,250 | 1,050 | 362 | 1,412 |

## Table D-1 - Existing Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Existing Volumes | Project Trips | Existing Plus Project | Existing Volumes | Project Trips | Existing Plus Project |
| **10 Project Driveway 4/Behymer Avenue** | | | | | | |
| NBL | 0 | 0 | 0 | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 | 0 | 0 | 0 |
| NBR | 0 | 41 | 41 | 0 | 28 | 28 |
| SBL | 0 | 0 | 0 | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 | 0 | 0 | 0 |
| EBT | 226 | 48 | 274 | 237 | 33 | 270 |
| EBR | 0 | 7 | 7 | 0 | 24 | 24 |
| WBL | 0 | 0 | 0 | 0 | 0 | 0 |
| WBT | 288 | 45 | 333 | 288 | 93 | 381 |
| WBR | 0 | 0 | 0 | 0 | 0 | 0 |
| North Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| South Leg | | | | | | |
| Approach | 0 | 41 | 41 | 0 | 28 | 28 |
| Departure | 0 | 7 | 7 | 0 | 24 | 24 |
| Total | 0 | 48 | 48 | 0 | 52 | 52 |
| East Leg | | | | | | |
| Approach | 288 | 45 | 333 | 288 | 93 | 381 |
| Departure | 226 | 89 | 315 | 237 | 61 | 298 |
| Total | 514 | 134 | 648 | 525 | 154 | 679 |
| West Leg | | | | | | |
| Approach | 226 | 55 | 281 | 237 | 57 | 294 |
| Departure | 288 | 45 | 333 | 288 | 93 | 381 |
| Total | 514 | 100 | 614 | 525 | 150 | 675 |
| Total Approaches | | | | | | |
| Approach | 514 | 141 | 655 | 525 | 178 | 703 |
| Departure | 514 | 141 | 655 | 525 | 178 | 703 |
| Total | 1,028 | 282 | 1,310 | 1,050 | 356 | 1,406 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | AM Peak Hour | | |
|---|---|---|---|
| | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **1 Willow Avenue/Behymer Avenue** | | | |
| NBL | 148 | 0 | 148 |
| NBT | 723 | 0 | 723 |
| NBR | 65 | 20 | 85 |
| SBL | 77 | 2 | 79 |
| SBT | 634 | 0 | 634 |
| SBR | 54 | 0 | 54 |
| EBL | 80 | 0 | 80 |
| EBT | 141 | 1 | 142 |
| EBR | 216 | 0 | 216 |
| WBL | 77 | 58 | 135 |
| WBT | 152 | 4 | 156 |
| WBR | 150 | 7 | 157 |
| North Leg | | | |
| Approach | 765 | 2 | 767 |
| Departure | 953 | 7 | 960 |
| Total | 1,718 | 9 | 1,727 |
| South Leg | | | |
| Approach | 936 | 20 | 956 |
| Departure | 927 | 58 | 985 |
| Total | 1,863 | 78 | 1,941 |
| East Leg | | | |
| Approach | 379 | 69 | 448 |
| Departure | 283 | 23 | 306 |
| Total | 662 | 92 | 754 |
| West Leg | | | |
| Approach | 437 | 1 | 438 |
| Departure | 354 | 4 | 358 |
| Total | 791 | 5 | 796 |
| Total Approaches | | | |
| Approach | 2,517 | 92 | 2,609 |
| Departure | 2,517 | 92 | 2,609 |
| Total | 5,034 | 184 | 5,218 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | AM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **2** | **Willow Avenue/Perrin Avenue** | | | |
| NBL | | 118 | 0 | 118 |
| NBT | | 753 | 13 | 766 |
| NBR | | 79 | 0 | 79 |
| SBL | | 23 | 0 | 23 |
| SBT | | 822 | 39 | 861 |
| SBR | | 129 | 19 | 148 |
| EBL | | 188 | 7 | 195 |
| EBT | | 70 | 0 | 70 |
| EBR | | 190 | 0 | 190 |
| WBL | | 104 | 0 | 104 |
| WBT | | 93 | 0 | 93 |
| WBR | | 30 | 0 | 30 |
| North Leg | | | | |
| | Approach | 974 | 58 | 1,032 |
| | Departure | 971 | 20 | 991 |
| | Total | 1,945 | 78 | 2,023 |
| South Leg | | | | |
| | Approach | 950 | 13 | 963 |
| | Departure | 1,116 | 39 | 1,155 |
| | Total | 2,066 | 52 | 2,118 |
| East Leg | | | | |
| | Approach | 227 | 0 | 227 |
| | Departure | 172 | 0 | 172 |
| | Total | 399 | 0 | 399 |
| West Leg | | | | |
| | Approach | 448 | 7 | 455 |
| | Departure | 340 | 19 | 359 |
| | Total | 788 | 26 | 814 |
| Total Approaches | | | | |
| | Approach | 2,599 | 78 | 2,677 |
| | Departure | 2,599 | 78 | 2,677 |
| | Total | 5,198 | 156 | 5,354 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | AM Peak Hour | | |
|---|---|---|---|
| | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **3 Peach Avenue/Behymer Avenue** | | | |
| NBL | 30 | 48 | 78 |
| NBT | 30 | 0 | 30 |
| NBR | 15 | 0 | 15 |
| SBL | 1 | 0 | 1 |
| SBT | 23 | 0 | 23 |
| SBR | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 |
| EBT | 239 | 22 | 261 |
| EBR | 23 | 2 | 25 |
| WBL | 11 | 2 | 13 |
| WBT | 368 | 21 | 389 |
| WBR | 1 | 0 | 1 |
| North Leg | | | |
| Approach | 24 | 0 | 24 |
| Departure | 31 | 0 | 31 |
| Total | 55 | 0 | 55 |
| South Leg | | | |
| Approach | 75 | 48 | 123 |
| Departure | 57 | 4 | 61 |
| Total | 132 | 52 | 184 |
| East Leg | | | |
| Approach | 380 | 23 | 403 |
| Departure | 255 | 22 | 277 |
| Total | 635 | 45 | 680 |
| West Leg | | | |
| Approach | 262 | 24 | 286 |
| Departure | 398 | 69 | 467 |
| Total | 660 | 93 | 753 |
| Total Approaches | | | |
| Approach | 741 | 95 | 836 |
| Departure | 741 | 95 | 836 |
| Total | 1,482 | 190 | 1,672 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | AM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **4** | **Minnewawa Avenue/Behymer Avenue** | | | |
| NBL | | 88 | 20 | 108 |
| NBT | | 272 | 0 | 272 |
| NBR | | 19 | 0 | 19 |
| SBL | | 175 | 0 | 175 |
| SBT | | 235 | 0 | 235 |
| SBR | | 3 | 1 | 4 |
| EBL | | 4 | 4 | 8 |
| EBT | | 172 | 7 | 179 |
| EBR | | 81 | 58 | 139 |
| WBL | | 25 | 0 | 25 |
| WBT | | 232 | 2 | 234 |
| WBR | | 253 | 0 | 253 |
| EBU | | | 21 | 21 |
| North Leg | | | | |
| | Approach | 413 | 1 | 414 |
| | Departure | 529 | 4 | 533 |
| | Total | 942 | 5 | 947 |
| South Leg | | | | |
| | Approach | 379 | 20 | 399 |
| | Departure | 341 | 58 | 399 |
| | Total | 720 | 78 | 798 |
| East Leg | | | | |
| | Approach | 510 | 2 | 512 |
| | Departure | 366 | 7 | 373 |
| | Total | 876 | 9 | 885 |
| West Leg | | | | |
| | Approach | 257 | 90 | 347 |
| | Departure | 323 | 44 | 367 |
| | Total | 580 | 134 | 714 |
| Total Approaches | | | | |
| | Approach | 1,559 | 113 | 1,672 |
| | Departure | 1,559 | 113 | 1,672 |
| | Total | 3,118 | 226 | 3,344 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | AM Peak Hour | | |
|---|---|---|---|
| | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **5 Minnewawa Avenue/Perrin Avenue** | | | |
| NBL | 61 | 0 | 61 |
| NBT | 396 | 20 | 416 |
| NBR | 14 | 0 | 14 |
| SBL | 2 | 0 | 2 |
| SBT | 428 | 58 | 486 |
| SBR | 32 | 0 | 32 |
| EBL | 34 | 0 | 34 |
| EBT | 69 | 0 | 69 |
| EBR | 67 | 0 | 67 |
| WBL | 7 | 0 | 7 |
| WBT | 74 | 0 | 74 |
| WBR | 2 | 0 | 2 |
| North Leg | | | |
| Approach | 462 | 58 | 520 |
| Departure | 432 | 20 | 452 |
| Total | 894 | 78 | 972 |
| South Leg | | | |
| Approach | 471 | 20 | 491 |
| Departure | 502 | 58 | 560 |
| Total | 973 | 78 | 1,051 |
| East Leg | | | |
| Approach | 83 | 0 | 83 |
| Departure | 85 | 0 | 85 |
| Total | 168 | 0 | 168 |
| West Leg | | | |
| Approach | 170 | 0 | 170 |
| Departure | 167 | 0 | 167 |
| Total | 337 | 0 | 337 |
| Total Approaches | | | |
| Approach | 1,186 | 78 | 1,264 |
| Departure | 1,186 | 78 | 1,264 |
| Total | 2,372 | 156 | 2,528 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | AM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **6** | **Minnewawa Avenue/Shepherd Avenue** | | | |
| NBL | | 199 | 0 | 199 |
| NBT | | 307 | 10 | 317 |
| NBR | | 34 | 0 | 34 |
| SBL | | 174 | 30 | 204 |
| SBT | | 475 | 28 | 503 |
| SBR | | 143 | 0 | 143 |
| EBL | | 103 | 0 | 103 |
| EBT | | 374 | 0 | 374 |
| EBR | | 232 | 0 | 232 |
| WBL | | 32 | 0 | 32 |
| WBT | | 308 | 0 | 308 |
| WBR | | 191 | 11 | 202 |
| North Leg | | | | |
| | Approach | 792 | 58 | 850 |
| | Departure | 601 | 21 | 622 |
| | Total | 1,393 | 79 | 1,472 |
| South Leg | | | | |
| | Approach | 540 | 10 | 550 |
| | Departure | 739 | 28 | 767 |
| | Total | 1,279 | 38 | 1,317 |
| East Leg | | | | |
| | Approach | 531 | 11 | 542 |
| | Departure | 582 | 30 | 612 |
| | Total | 1,113 | 41 | 1,154 |
| West Leg | | | | |
| | Approach | 709 | 0 | 709 |
| | Departure | 650 | 0 | 650 |
| | Total | 1,359 | 0 | 1,359 |
| Total Approaches | | | | |
| | Approach | 2,572 | 79 | 2,651 |
| | Departure | 2,572 | 79 | 2,651 |
| | Total | 5,144 | 158 | 5,302 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | AM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **7** | **Peach Avenue/Project Driveway 1** | | | |
| NBL | | 0 | 0 | 0 |
| NBT | | 75 | 0 | 75 |
| NBR | | 0 | 0 | 0 |
| SBL | | 0 | 5 | 5 |
| SBT | | 57 | 0 | 57 |
| SBR | | 0 | 0 | 0 |
| EBL | | 0 | 0 | 0 |
| EBT | | 0 | 0 | 0 |
| EBR | | 0 | 0 | 0 |
| WBL | | 0 | 0 | 0 |
| WBT | | 0 | 0 | 0 |
| WBR | | 0 | 48 | 48 |
| North Leg | | | | |
| | Approach | 57 | 5 | 62 |
| | Departure | 75 | 48 | 123 |
| | Total | 132 | 53 | 185 |
| South Leg | | | | |
| | Approach | 75 | 0 | 75 |
| | Departure | 57 | 0 | 57 |
| | Total | 132 | 0 | 132 |
| East Leg | | | | |
| | Approach | 0 | 48 | 48 |
| | Departure | 0 | 5 | 5 |
| | Total | 0 | 53 | 53 |
| West Leg | | | | |
| | Approach | 0 | 0 | 0 |
| | Departure | 0 | 0 | 0 |
| | Total | 0 | 0 | 0 |
| Total Approaches | | | | |
| | Approach | 132 | 53 | 185 |
| | Departure | 132 | 53 | 185 |
| | Total | 264 | 106 | 370 |

**Table D-2 - Near-Term Peak Hour Volume Summary**

| | AM Peak Hour | | |
|---|---|---|---|
| | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **8 Project Driveway 2/Behymer Avenue** | | | |
| NBL | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 |
| NBR | 0 | 21 | 21 |
| SBL | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 |
| EBT | 257 | 17 | 274 |
| EBR | 0 | 5 | 5 |
| WBL | 0 | 0 | 0 |
| WBT | 323 | 23 | 346 |
| WBR | 0 | 0 | 0 |
| North Leg | | | |
| Approach | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 |
| Total | 0 | 0 | 0 |
| South Leg | | | |
| Approach | 0 | 21 | 21 |
| Departure | 0 | 5 | 5 |
| Total | 0 | 26 | 26 |
| East Leg | | | |
| Approach | 323 | 23 | 346 |
| Departure | 257 | 38 | 295 |
| Total | 580 | 61 | 641 |
| West Leg | | | |
| Approach | 257 | 22 | 279 |
| Departure | 323 | 23 | 346 |
| Total | 580 | 45 | 625 |
| Total Approaches | | | |
| Approach | 580 | 66 | 646 |
| Departure | 580 | 66 | 646 |
| Total | 1,160 | 132 | 1,292 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | AM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **9** | **Project Driveway 3/Behymer Avenue** | | | |
| NBL | | 0 | 0 | 0 |
| NBT | | 0 | 0 | 0 |
| NBR | | 0 | 28 | 28 |
| SBL | | 0 | 0 | 0 |
| SBT | | 0 | 0 | 0 |
| SBR | | 0 | 0 | 0 |
| EBL | | 0 | 0 | 0 |
| EBT | | 257 | 28 | 285 |
| EBR | | 0 | 10 | 10 |
| WBL | | 0 | 22 | 22 |
| WBT | | 323 | 23 | 346 |
| WBR | | 0 | 0 | 0 |
| North Leg | | | | |
| | Approach | 0 | 0 | 0 |
| | Departure | 0 | 0 | 0 |
| | Total | 0 | 0 | 0 |
| South Leg | | | | |
| | Approach | 0 | 28 | 28 |
| | Departure | 0 | 32 | 32 |
| | Total | 0 | 60 | 60 |
| East Leg | | | | |
| | Approach | 323 | 45 | 368 |
| | Departure | 257 | 56 | 313 |
| | Total | 580 | 101 | 681 |
| West Leg | | | | |
| | Approach | 257 | 38 | 295 |
| | Departure | 323 | 23 | 346 |
| | Total | 580 | 61 | 641 |
| Total Approaches | | | | |
| | Approach | 580 | 111 | 691 |
| | Departure | 580 | 111 | 691 |
| | Total | 1,160 | 222 | 1,382 |

**Table D-2 - Near-Term Peak Hour Volume Summary**

| | AM Peak Hour | | |
|---|---|---|---|
| | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **10 Project Driveway 4/Behymer Avenue** | | | |
| NBL | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 |
| NBR | 0 | 41 | 41 |
| SBL | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 |
| EBT | 257 | 48 | 305 |
| EBR | 0 | 7 | 7 |
| WBL | 0 | 0 | 0 |
| WBT | 323 | 45 | 368 |
| WBR | 0 | 0 | 0 |
| North Leg | | | |
| Approach | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 |
| Total | 0 | 0 | 0 |
| South Leg | | | |
| Approach | 0 | 41 | 41 |
| Departure | 0 | 7 | 7 |
| Total | 0 | 48 | 48 |
| East Leg | | | |
| Approach | 323 | 45 | 368 |
| Departure | 257 | 89 | 346 |
| Total | 580 | 134 | 714 |
| West Leg | | | |
| Approach | 257 | 55 | 312 |
| Departure | 323 | 45 | 368 |
| Total | 580 | 100 | 680 |
| Total Approaches | | | |
| Approach | 580 | 141 | 721 |
| Departure | 580 | 141 | 721 |
| Total | 1,160 | 282 | 1,442 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | PM Peak Hour | | |
|---|---|---|---|
| | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **1 Willow Avenue/Behymer Avenue** | | | |
| NBL | 174 | 0 | 174 |
| NBT | 768 | 0 | 768 |
| NBR | 112 | 66 | 178 |
| SBL | 114 | 8 | 122 |
| SBT | 599 | 0 | 599 |
| SBR | 40 | 0 | 40 |
| EBL | 21 | 0 | 21 |
| EBT | 125 | 5 | 130 |
| EBR | 179 | 0 | 179 |
| WBL | 111 | 39 | 150 |
| WBT | 157 | 3 | 160 |
| WBR | 137 | 5 | 142 |
| North Leg | | | |
| Approach | 753 | 8 | 761 |
| Departure | 926 | 5 | 931 |
| Total | 1,679 | 13 | 1,692 |
| South Leg | | | |
| Approach | 1,054 | 66 | 1,120 |
| Departure | 889 | 39 | 928 |
| Total | 1,943 | 105 | 2,048 |
| East Leg | | | |
| Approach | 405 | 47 | 452 |
| Departure | 351 | 79 | 430 |
| Total | 756 | 126 | 882 |
| West Leg | | | |
| Approach | 325 | 5 | 330 |
| Departure | 371 | 3 | 374 |
| Total | 696 | 8 | 704 |
| Total Approaches | | | |
| Approach | 2,537 | 126 | 2,663 |
| Departure | 2,537 | 126 | 2,663 |
| Total | 5,074 | 252 | 5,326 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | PM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **2** | **Willow Avenue/Perrin Avenue** | | | |
| NBL | | 236 | 0 | 236 |
| NBT | | 933 | 44 | 977 |
| NBR | | 152 | 0 | 152 |
| SBL | | 55 | 0 | 55 |
| SBT | | 750 | 26 | 776 |
| SBR | | 126 | 13 | 139 |
| EBL | | 153 | 22 | 175 |
| EBT | | 123 | 0 | 123 |
| EBR | | 232 | 0 | 232 |
| WBL | | 145 | 0 | 145 |
| WBT | | 114 | 0 | 114 |
| WBR | | 54 | 0 | 54 |
| North Leg | | | | |
| | Approach | 931 | 39 | 970 |
| | Departure | 1,140 | 66 | 1,206 |
| | Total | 2,071 | 105 | 2,176 |
| South Leg | | | | |
| | Approach | 1,321 | 44 | 1,365 |
| | Departure | 1,127 | 26 | 1,153 |
| | Total | 2,448 | 70 | 2,518 |
| East Leg | | | | |
| | Approach | 313 | 0 | 313 |
| | Departure | 330 | 0 | 330 |
| | Total | 643 | 0 | 643 |
| West Leg | | | | |
| | Approach | 508 | 22 | 530 |
| | Departure | 476 | 13 | 489 |
| | Total | 984 | 35 | 1,019 |
| Total Approaches | | | | |
| | Approach | 3,073 | 105 | 3,178 |
| | Departure | 3,073 | 105 | 3,178 |
| | Total | 6,146 | 210 | 6,356 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | PM Peak Hour | | |
|---|---|---|---|
| | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **3 Peach Avenue/Behymer Avenue** | | | |
| NBL | 37 | 33 | 70 |
| NBT | 37 | 0 | 37 |
| NBR | 18 | 0 | 18 |
| SBL | 0 | 0 | 0 |
| SBT | 39 | 0 | 39 |
| SBR | 1 | 0 | 1 |
| EBL | 1 | 0 | 1 |
| EBT | 270 | 71 | 341 |
| EBR | 39 | 8 | 47 |
| WBL | 19 | 8 | 27 |
| WBT | 318 | 14 | 332 |
| WBR | 0 | 0 | 0 |
| North Leg | | | |
| Approach | 40 | 0 | 40 |
| Departure | 38 | 0 | 38 |
| Total | 78 | 0 | 78 |
| South Leg | | | |
| Approach | 92 | 33 | 125 |
| Departure | 97 | 16 | 113 |
| Total | 189 | 49 | 238 |
| East Leg | | | |
| Approach | 337 | 22 | 359 |
| Departure | 288 | 71 | 359 |
| Total | 625 | 93 | 718 |
| West Leg | | | |
| Approach | 310 | 79 | 389 |
| Departure | 356 | 47 | 403 |
| Total | 666 | 126 | 792 |
| Total Approaches | | | |
| Approach | 779 | 134 | 913 |
| Departure | 779 | 134 | 913 |
| Total | 1,558 | 268 | 1,826 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | PM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| 4 | **Minnewawa Avenue/Behymer Avenue** | | | |
| NBL | | 84 | 66 | 150 |
| NBT | | 300 | 0 | 300 |
| NBR | | 30 | 0 | 30 |
| SBL | | 187 | 0 | 187 |
| SBT | | 213 | 0 | 213 |
| SBR | | 2 | 5 | 7 |
| EBL | | 2 | 3 | 5 |
| EBT | | 212 | 5 | 217 |
| EBR | | 72 | 39 | 111 |
| WBL | | 15 | 0 | 15 |
| WBT | | 247 | 8 | 255 |
| WBR | | 179 | 0 | 179 |
| EBU | | | 14 | 14 |
| North Leg | | | | |
| | Approach | 402 | 5 | 407 |
| | Departure | 481 | 3 | 484 |
| | Total | 883 | 8 | 891 |
| South Leg | | | | |
| | Approach | 414 | 66 | 480 |
| | Departure | 300 | 39 | 339 |
| | Total | 714 | 105 | 819 |
| East Leg | | | | |
| | Approach | 441 | 8 | 449 |
| | Departure | 429 | 5 | 434 |
| | Total | 870 | 13 | 883 |
| West Leg | | | | |
| | Approach | 286 | 61 | 347 |
| | Departure | 333 | 93 | 426 |
| | Total | 619 | 154 | 773 |
| Total Approaches | | | | |
| | Approach | 1,543 | 140 | 1,683 |
| | Departure | 1,543 | 140 | 1,683 |
| | Total | 3,086 | 280 | 3,366 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | PM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **5** | **Minnewawa Avenue/Perrin Avenue** | | | |
| N8L | | 88 | 0 | 88 |
| NBT | | 463 | 66 | 529 |
| N8R | | 7 | 0 | 7 |
| S8L | | 0 | 0 | 0 |
| SBT | | 376 | 39 | 415 |
| S8R | | 38 | 0 | 38 |
| EBL | | 37 | 0 | 37 |
| E8T | | 97 | 0 | 97 |
| EBR | | 91 | 0 | 91 |
| WBL | | 14 | 0 | 14 |
| W8T | | 96 | 0 | 96 |
| W8R | | 2 | 0 | 2 |
| North Leg | | | | |
| | Approach | 414 | 39 | 453 |
| | Departure | 502 | 66 | 568 |
| | Total | 916 | 105 | 1,021 |
| South Leg | | | | |
| | Approach | 558 | 66 | 624 |
| | Departure | 481 | 39 | 520 |
| | Total | 1,039 | 105 | 1,144 |
| East Leg | | | | |
| | Approach | 112 | 0 | 112 |
| | Departure | 104 | 0 | 104 |
| | Total | 216 | 0 | 216 |
| West Leg | | | | |
| | Approach | 225 | 0 | 225 |
| | Departure | 222 | 0 | 222 |
| | Total | 447 | 0 | 447 |
| Total Approaches | | | | |
| | Approach | 1,309 | 105 | 1,414 |
| | Departure | 1,309 | 105 | 1,414 |
| | Total | 2,618 | 210 | 2,828 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | PM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| 6 | Minnewawa Avenue/Shepherd Avenue | | | |
| NBL | | 265 | 0 | 265 |
| NBT | | 546 | 31 | 577 |
| NBR | | 48 | 0 | 48 |
| SBL | | 138 | 20 | 158 |
| SBT | | 435 | 19 | 454 |
| SBR | | 152 | 0 | 152 |
| EBL | | 182 | 0 | 182 |
| EBT | | 368 | 0 | 368 |
| EBR | | 239 | 0 | 239 |
| WBL | | 30 | 0 | 30 |
| WBT | | 316 | 0 | 316 |
| WBR | | 193 | 35 | 228 |
| North Leg | | | | |
| | Approach | 725 | 39 | 764 |
| | Departure | 921 | 66 | 987 |
| | Total | 1,646 | 105 | 1,751 |
| South Leg | | | | |
| | Approach | 859 | 31 | 890 |
| | Departure | 704 | 19 | 723 |
| | Total | 1,563 | 50 | 1,613 |
| East Leg | | | | |
| | Approach | 539 | 35 | 574 |
| | Departure | 554 | 20 | 574 |
| | Total | 1,093 | 55 | 1,148 |
| West Leg | | | | |
| | Approach | 789 | 0 | 789 |
| | Departure | 733 | 0 | 733 |
| | Total | 1,522 | 0 | 1,522 |
| Total Approaches | | | | |
| | Approach | 2,912 | 105 | 3,017 |
| | Departure | 2,912 | 105 | 3,017 |
| | Total | 5,824 | 210 | 6,034 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | | PM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **7** | **Peach Avenue/Project Driveway 1** | | | |
| NBL | | 0 | 0 | 0 |
| NBT | | 91 | 0 | 91 |
| NBR | | 0 | 0 | 0 |
| SBL | | 0 | 16 | 16 |
| SBT | | 97 | 0 | 97 |
| SBR | | 0 | 0 | 0 |
| EBL | | 0 | 0 | 0 |
| EBT | | 0 | 0 | 0 |
| EBR | | 0 | 0 | 0 |
| WBL | | 0 | 0 | 0 |
| WBT | | 0 | 0 | 0 |
| WBR | | 0 | 33 | 33 |
| North Leg | | | | |
| | Approach | 97 | 16 | 113 |
| | Departure | 91 | 33 | 124 |
| | Total | 188 | 49 | 237 |
| South Leg | | | | |
| | Approach | 91 | 0 | 91 |
| | Departure | 97 | 0 | 97 |
| | Total | 188 | 0 | 188 |
| East Leg | | | | |
| | Approach | 0 | 33 | 33 |
| | Departure | 0 | 16 | 16 |
| | Total | 0 | 49 | 49 |
| West Leg | | | | |
| | Approach | 0 | 0 | 0 |
| | Departure | 0 | 0 | 0 |
| | Total | 0 | 0 | 0 |
| Total Approaches | | | | |
| | Approach | 188 | 49 | 237 |
| | Departure | 188 | 49 | 237 |
| | Total | 376 | 98 | 474 |

**Table D-2 - Near-Term Peak Hour Volume Summary**

| | | PM Peak Hour | | |
|---|---|---|---|---|
| | | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| 8 | **Project Driveway 2/Behymer Avenue** | | | |
| NBL | | 0 | 0 | 0 |
| NBT | | 0 | 0 | 0 |
| NBR | | 0 | 14 | 14 |
| SBL | | 0 | 0 | 0 |
| SBT | | 0 | 0 | 0 |
| SBR | | 0 | 0 | 0 |
| EBL | | 0 | 0 | 0 |
| EBT | | 286 | 55 | 341 |
| EBR | | 0 | 16 | 16 |
| WBL | | 0 | 0 | 0 |
| WBT | | 333 | 22 | 355 |
| WBR | | 0 | 0 | 0 |
| North Leg | | | | |
| | Approach | 0 | 0 | 0 |
| | Departure | 0 | 0 | 0 |
| | Total | 0 | 0 | 0 |
| South Leg | | | | |
| | Approach | 0 | 14 | 14 |
| | Departure | 0 | 16 | 16 |
| | Total | 0 | 30 | 30 |
| East Leg | | | | |
| | Approach | 333 | 22 | 355 |
| | Departure | 286 | 69 | 355 |
| | Total | 619 | 91 | 710 |
| West Leg | | | | |
| | Approach | 286 | 71 | 357 |
| | Departure | 333 | 22 | 355 |
| | Total | 619 | 93 | 712 |
| Total Approaches | | | | |
| | Approach | 619 | 107 | 726 |
| | Departure | 619 | 107 | 726 |
| | Total | 1,238 | 214 | 1,452 |

**Table D-2 - Near-Term Peak Hour Volume Summary**

| | PM Peak Hour | | |
|---|---|---|---|
| | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **9 Project Driveway 3/Behymer Avenue** | | | |
| NBL | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 |
| NBR | 0 | 19 | 19 |
| SBL | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 |
| EBT | 286 | 38 | 324 |
| EBR | 0 | 31 | 31 |
| WBL | 0 | 71 | 71 |
| WBT | 333 | 22 | 355 |
| WBR | 0 | 0 | 0 |
| North Leg | | | |
| Approach | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 |
| Total | 0 | 0 | 0 |
| South Leg | | | |
| Approach | 0 | 19 | 19 |
| Departure | 0 | 102 | 102 |
| Total | 0 | 121 | 121 |
| East Leg | | | |
| Approach | 333 | 93 | 426 |
| Departure | 286 | 57 | 343 |
| Total | 619 | 150 | 769 |
| West Leg | | | |
| Approach | 286 | 69 | 355 |
| Departure | 333 | 22 | 355 |
| Total | 619 | 91 | 710 |
| Total Approaches | | | |
| Approach | 619 | 181 | 800 |
| Departure | 619 | 181 | 800 |
| Total | 1,238 | 362 | 1,600 |

## Table D-2 - Near-Term Peak Hour Volume Summary

| | PM Peak Hour | | |
|---|---|---|---|
| | Near-Term Without Project | Project Trips | Near-Term Plus Project |
| **10 Project Driveway 4/Behymer Avenue** | | | |
| NBL | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 |
| NBR | 0 | 28 | 28 |
| SBL | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 |
| EBT | 286 | 33 | 319 |
| EBR | 0 | 24 | 24 |
| WBL | 0 | 0 | 0 |
| WBT | 333 | 93 | 426 |
| WBR | 0 | 0 | 0 |
| North Leg | | | |
| Approach | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 |
| Total | 0 | 0 | 0 |
| South Leg | | | |
| Approach | 0 | 28 | 28 |
| Departure | 0 | 24 | 24 |
| Total | 0 | 52 | 52 |
| East Leg | | | |
| Approach | 333 | 93 | 426 |
| Departure | 286 | 61 | 347 |
| Total | 619 | 154 | 773 |
| West Leg | | | |
| Approach | 286 | 57 | 343 |
| Departure | 333 | 93 | 426 |
| Total | 619 | 150 | 769 |
| Total Approaches | | | |
| Approach | 619 | 178 | 797 |
| Departure | 619 | 178 | 797 |
| Total | 1,238 | 356 | 1,594 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **1 Willow Avenue/Behymer Avenue** | | | | | | |
| NBL | 193 | 0 | 193 | 215 | 0 | 215 |
| NBT | 784 | 0 | 784 | 889 | 0 | 889 |
| NBR | 265 | 0 | 265 | 670 | 0 | 670 |
| SBL | 148 | 2 | 150 | 244 | 8 | 252 |
| SBT | 913 | 0 | 913 | 655 | 0 | 655 |
| SBR | 57 | 0 | 57 | 42 | 0 | 42 |
| EBL | 84 | 0 | 84 | 22 | 0 | 22 |
| EBT | 222 | 1 | 223 | 254 | 5 | 259 |
| EBR | 267 | 0 | 267 | 237 | 0 | 237 |
| WBL | 547 | 0 | 547 | 526 | 0 | 526 |
| WBT | 289 | 4 | 293 | 252 | 3 | 255 |
| WBR | 330 | 7 | 337 | 254 | 5 | 259 |
| North Leg | | | | | | |
| Approach | 1,118 | 2 | 1,120 | 941 | 8 | 949 |
| Departure | 1,198 | 7 | 1,205 | 1,165 | 5 | 1,170 |
| Total | 2,316 | 9 | 2,325 | 2,106 | 13 | 2,119 |
| South Leg | | | | | | |
| Approach | 1,242 | 0 | 1,242 | 1,774 | 0 | 1,774 |
| Departure | 1,727 | 0 | 1,727 | 1,418 | 0 | 1,418 |
| Total | 2,969 | 0 | 2,969 | 3,192 | 0 | 3,192 |
| East Leg | | | | | | |
| Approach | 1,166 | 11 | 1,177 | 1,032 | 8 | 1,040 |
| Departure | 635 | 3 | 638 | 1,168 | 13 | 1,181 |
| Total | 1,801 | 14 | 1,815 | 2,200 | 21 | 2,221 |
| West Leg | | | | | | |
| Approach | 573 | 1 | 574 | 513 | 5 | 518 |
| Departure | 539 | 4 | 543 | 509 | 3 | 512 |
| Total | 1,112 | 5 | 1,117 | 1,022 | 8 | 1,030 |
| Total Approaches | | | | | | |
| Approach | 4,099 | 14 | 4,113 | 4,260 | 21 | 4,281 |
| Departure | 4,099 | 14 | 4,113 | 4,260 | 21 | 4,281 |
| Total | 8,198 | 28 | 8,226 | 8,520 | 42 | 8,562 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **2 Willow Avenue/Perrin Avenue** | | | | | | |
| NBL | 160 | 0 | 160 | 273 | 0 | 273 |
| NBT | 861 | 0 | 861 | 1,373 | 0 | 1,373 |
| NBR | 134 | 0 | 134 | 280 | 0 | 280 |
| SBL | 45 | 0 | 45 | 120 | 0 | 120 |
| SBT | 1,252 | 0 | 1,252 | 908 | 0 | 908 |
| SBR | 449 | 0 | 449 | 401 | 0 | 401 |
| EBL | 278 | 0 | 278 | 449 | 0 | 449 |
| EBT | 119 | 7 | 126 | 233 | 22 | 255 |
| EBR | 209 | 0 | 209 | 333 | 0 | 333 |
| WBL | 197 | 0 | 197 | 246 | 0 | 246 |
| WBT | 181 | 19 | 200 | 197 | 13 | 210 |
| WBR | 76 | 0 | 76 | 107 | 0 | 107 |
| North Leg | | | | | | |
| Approach | 1,746 | 0 | 1,746 | 1,429 | 0 | 1,429 |
| Departure | 1,215 | 0 | 1,215 | 1,929 | 0 | 1,929 |
| Total | 2,961 | 0 | 2,961 | 3,358 | 0 | 3,358 |
| South Leg | | | | | | |
| Approach | 1,155 | 0 | 1,155 | 1,926 | 0 | 1,926 |
| Departure | 1,658 | 0 | 1,658 | 1,487 | 0 | 1,487 |
| Total | 2,813 | 0 | 2,813 | 3,413 | 0 | 3,413 |
| East Leg | | | | | | |
| Approach | 454 | 19 | 473 | 550 | 13 | 563 |
| Departure | 298 | 7 | 305 | 633 | 22 | 655 |
| Total | 752 | 26 | 778 | 1,183 | 35 | 1,218 |
| West Leg | | | | | | |
| Approach | 606 | 7 | 613 | 1,015 | 22 | 1,037 |
| Departure | 790 | 19 | 809 | 871 | 13 | 884 |
| Total | 1,396 | 26 | 1,422 | 1,886 | 35 | 1,921 |
| Total Approaches | | | | | | |
| Approach | 3,961 | 26 | 3,987 | 4,920 | 35 | 4,955 |
| Departure | 3,961 | 26 | 3,987 | 4,920 | 35 | 4,955 |
| Total | 7,922 | 52 | 7,974 | 9,840 | 70 | 9,910 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **3 Peach Avenue/Behymer Avenue** | | | | | | |
| N8L | 62 | 8 | 70 | 95 | 6 | 101 |
| NBT | 56 | 0 | 56 | 74 | 0 | 74 |
| NBR | 35 | 1 | 36 | 54 | 5 | 59 |
| SBL | 36 | 0 | 36 | 10 | 0 | 10 |
| SBT | 47 | 0 | 47 | 75 | 0 | 75 |
| SBR | 1 | 0 | 1 | 1 | 0 | 1 |
| E8L | 0 | 0 | 0 | 1 | 0 | 1 |
| EBT | 309 | 3 | 312 | 772 | 11 | 783 |
| E8R | 60 | 0 | 60 | 83 | 2 | 85 |
| WBL | 39 | 6 | 45 | 48 | 11 | 59 |
| W8T | 961 | 3 | 964 | 620 | 2 | 622 |
| WBR | 7 | 0 | 7 | 36 | 0 | 36 |
| North Leg | | | | | | |
| Approach | 84 | 0 | 84 | 86 | 0 | 86 |
| Departure | 63 | 0 | 63 | 111 | 0 | 111 |
| Total | 147 | 0 | 147 | 197 | 0 | 197 |
| South Leg | | | | | | |
| Approach | 153 | 9 | 162 | 223 | 11 | 234 |
| Departure | 146 | 6 | 152 | 206 | 13 | 219 |
| Total | 299 | 15 | 314 | 429 | 24 | 453 |
| East Leg | | | | | | |
| Approach | 1,007 | 9 | 1,016 | 704 | 13 | 717 |
| Departure | 380 | 4 | 384 | 836 | 16 | 852 |
| Total | 1,387 | 13 | 1,400 | 1,540 | 29 | 1,569 |
| West Leg | | | | | | |
| Approach | 369 | 3 | 372 | 856 | 13 | 869 |
| Departure | 1,024 | 11 | 1,035 | 716 | 8 | 724 |
| Total | 1,393 | 14 | 1,407 | 1,572 | 21 | 1,593 |
| Total Approaches | | | | | | |
| Approach | 1,613 | 21 | 1,634 | 1,869 | 37 | 1,906 |
| Departure | 1,613 | 21 | 1,634 | 1,869 | 37 | 1,906 |
| Total | 3,226 | 42 | 3,268 | 3,738 | 74 | 3,812 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **4 Minnewawa Avenue/Behymer Avenue** | | | | | | |
| N8L | 177 | 10 | 187 | 229 | 31 | 260 |
| N8T | 317 | 0 | 317 | 628 | 0 | 628 |
| N8R | 35 | 0 | 35 | 64 | 0 | 64 |
| S8L | 250 | 0 | 250 | 226 | 0 | 226 |
| S8T | 544 | 0 | 544 | 310 | 0 | 310 |
| S8R | 23 | 1 | 24 | 10 | 5 | 15 |
| E8L | 12 | 4 | 16 | 14 | 3 | 17 |
| E8T | 222 | 37 | 259 | 472 | 25 | 497 |
| E8R | 153 | 28 | 181 | 161 | 19 | 180 |
| W8L | 63 | 0 | 63 | 35 | 0 | 35 |
| W8T | 512 | 13 | 525 | 463 | 42 | 505 |
| W8R | 279 | 0 | 279 | 223 | 0 | 223 |
| E8U | | 7 | 7 | | 5 | 5 |
| North Leg | | | | | | |
| Approach | 817 | 1 | 818 | 546 | 5 | 551 |
| Departure | 608 | 4 | 612 | 865 | 3 | 868 |
| Total | 1,425 | 5 | 1,430 | 1,411 | 8 | 1,419 |
| South Leg | | | | | | |
| Approach | 529 | 10 | 539 | 921 | 31 | 952 |
| Departure | 760 | 28 | 788 | 506 | 19 | 525 |
| Total | 1,289 | 38 | 1,327 | 1,427 | 50 | 1,477 |
| East Leg | | | | | | |
| Approach | 854 | 13 | 867 | 721 | 42 | 763 |
| Departure | 507 | 37 | 544 | 762 | 25 | 787 |
| Total | 1,361 | 50 | 1,411 | 1,483 | 67 | 1,550 |
| West Leg | | | | | | |
| Approach | 387 | 76 | 463 | 647 | 52 | 699 |
| Departure | 712 | 31 | 743 | 702 | 83 | 785 |
| Total | 1,099 | 107 | 1,206 | 1,349 | 135 | 1,484 |
| Total Approaches | | | | | | |
| Approach | 2,587 | 100 | 2,687 | 2,835 | 130 | 2,965 |
| Departure | 2,587 | 100 | 2,687 | 2,835 | 130 | 2,965 |
| Total | 5,174 | 200 | 5,374 | 5,670 | 260 | 5,930 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **5 Minnewawa Avenue/Perrin Avenue** | | | | | | |
| N8L | 96 | 0 | 96 | 161 | 0 | 161 |
| NBT | 523 | 10 | 533 | 1,069 | 31 | 1,100 |
| NBR | 18 | 0 | 18 | 18 | 0 | 18 |
| S8L | 3 | 0 | 3 | 4 | 0 | 4 |
| S8T | 962 | 28 | 990 | 597 | 19 | 616 |
| S8R | 140 | 0 | 140 | 111 | 0 | 111 |
| E8L | 85 | 0 | 85 | 129 | 0 | 129 |
| E8T | 129 | 0 | 129 | 179 | 0 | 179 |
| E8R | 121 | 0 | 121 | 149 | 0 | 149 |
| W8L | 22 | 0 | 22 | 23 | 0 | 23 |
| W8T | 144 | 0 | 144 | 177 | 0 | 177 |
| W8R | 4 | 0 | 4 | 5 | 0 | 5 |
| North Leg | | | | | | |
| Approach | 1,105 | 28 | 1,133 | 712 | 19 | 731 |
| Departure | 612 | 10 | 622 | 1,203 | 31 | 1,234 |
| Total | 1,717 | 38 | 1,755 | 1,915 | 50 | 1,965 |
| South Leg | | | | | | |
| Approach | 637 | 10 | 647 | 1,248 | 31 | 1,279 |
| Departure | 1,105 | 28 | 1,133 | 769 | 19 | 788 |
| Total | 1,742 | 38 | 1,780 | 2,017 | 50 | 2,067 |
| East Leg | | | | | | |
| Approach | 170 | 0 | 170 | 205 | 0 | 205 |
| Departure | 150 | 0 | 150 | 201 | 0 | 201 |
| Total | 320 | 0 | 320 | 406 | 0 | 406 |
| West Leg | | | | | | |
| Approach | 335 | 0 | 335 | 457 | 0 | 457 |
| Departure | 380 | 0 | 380 | 449 | 0 | 449 |
| Total | 715 | 0 | 715 | 906 | 0 | 906 |
| Total Approaches | | | | | | |
| Approach | 2,247 | 38 | 2,285 | 2,622 | 50 | 2,672 |
| Departure | 2,247 | 38 | 2,285 | 2,622 | 50 | 2,672 |
| Total | 4,494 | 76 | 4,570 | 5,244 | 100 | 5,344 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **6 Minnewawa Avenue/Shepherd Avenue** | | | | | | |
| NBL | 260 | 0 | 260 | 473 | 0 | 473 |
| NBT | 387 | 10 | 397 | 1,066 | 31 | 1,097 |
| NBR | 51 | 0 | 51 | 90 | 0 | 90 |
| SBL | 297 | 0 | 297 | 199 | 0 | 199 |
| SBT | 966 | 28 | 994 | 673 | 19 | 692 |
| SBR | 221 | 0 | 221 | 230 | 0 | 230 |
| EBL | 150 | 0 | 150 | 322 | 0 | 322 |
| EBT | 564 | 0 | 564 | 511 | 0 | 511 |
| EBR | 508 | 0 | 508 | 441 | 0 | 441 |
| WBL | 106 | 0 | 106 | 48 | 0 | 48 |
| WBT | 503 | 0 | 503 | 383 | 0 | 383 |
| WBR | 322 | 0 | 322 | 329 | 0 | 329 |
| North Leg | | | | | | |
| Approach | 1,484 | 28 | 1,512 | 1,102 | 19 | 1,121 |
| Departure | 859 | 10 | 869 | 1,717 | 31 | 1,748 |
| Total | 2,343 | 38 | 2,381 | 2,819 | 50 | 2,869 |
| South Leg | | | | | | |
| Approach | 698 | 10 | 708 | 1,629 | 31 | 1,660 |
| Departure | 1,580 | 28 | 1,608 | 1,162 | 19 | 1,181 |
| Total | 2,278 | 38 | 2,316 | 2,791 | 50 | 2,841 |
| East Leg | | | | | | |
| Approach | 931 | 0 | 931 | 760 | 0 | 760 |
| Departure | 912 | 0 | 912 | 800 | 0 | 800 |
| Total | 1,843 | 0 | 1,843 | 1,560 | 0 | 1,560 |
| West Leg | | | | | | |
| Approach | 1,222 | 0 | 1,222 | 1,274 | 0 | 1,274 |
| Departure | 984 | 0 | 984 | 1,086 | 0 | 1,086 |
| Total | 2,206 | 0 | 2,206 | 2,360 | 0 | 2,360 |
| Total Approaches | | | | | | |
| Approach | 4,335 | 38 | 4,373 | 4,765 | 50 | 4,815 |
| Departure | 4,335 | 38 | 4,373 | 4,765 | 50 | 4,815 |
| Total | 8,670 | 76 | 8,746 | 9,530 | 100 | 9,630 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **7 Peach Avenue/Project Driveway 1** | | | | | | |
| NBL | 0 | 0 | 0 | 0 | 0 | 0 |
| NBT | 147 | 1 | 148 | 170 | 5 | 175 |
| NBR | 0 | 19 | 19 | 0 | 61 | 61 |
| SBL | 0 | 3 | 3 | 0 | 9 | 9 |
| SBT | 108 | 4 | 112 | 194 | 3 | 197 |
| SBR | 0 | 0 | 0 | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 | 0 | 0 | 0 |
| EBT | 0 | 0 | 0 | 0 | 0 | 0 |
| EBR | 0 | 0 | 0 | 0 | 0 | 0 |
| WBL | 0 | 54 | 54 | 0 | 36 | 36 |
| WBT | 0 | 0 | 0 | 0 | 0 | 0 |
| WBR | 0 | 8 | 8 | 0 | 6 | 6 |
| North Leg | | | | | | |
| Approach | 108 | 7 | 115 | 194 | 12 | 206 |
| Departure | 147 | 9 | 156 | 170 | 11 | 181 |
| Total | 255 | 16 | 271 | 364 | 23 | 387 |
| South Leg | | | | | | |
| Approach | 147 | 20 | 167 | 170 | 66 | 236 |
| Departure | 108 | 58 | 166 | 194 | 39 | 233 |
| Total | 255 | 78 | 333 | 364 | 105 | 469 |
| East Leg | | | | | | |
| Approach | 0 | 62 | 62 | 0 | 42 | 42 |
| Departure | 0 | 22 | 22 | 0 | 70 | 70 |
| Total | 0 | 84 | 84 | 0 | 112 | 112 |
| West Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Approaches | | | | | | |
| Approach | 255 | 89 | 344 | 364 | 120 | 484 |
| Departure | 255 | 89 | 344 | 364 | 120 | 484 |
| Total | 510 | 178 | 688 | 728 | 240 | 968 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **8 Project Driveway 2/Behymer Avenue** | | | | | | |
| NBL | 0 | 0 | 0 | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 | 0 | 0 | 0 |
| NBR | 0 | 21 | 21 | 0 | 14 | 14 |
| SBL | 0 | 0 | 0 | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 | 0 | 0 | 0 |
| EBT | 310 | 4 | 314 | 375 | 14 | 389 |
| EBR | 0 | 0 | 0 | 0 | 2 | 2 |
| WBL | 0 | 0 | 0 | 0 | 0 | 0 |
| WBT | 390 | 9 | 399 | 414 | 13 | 427 |
| WBR | 0 | 0 | 0 | 0 | 0 | 0 |
| North Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| South Leg | | | | | | |
| Approach | 0 | 21 | 21 | 0 | 14 | 14 |
| Departure | 0 | 0 | 0 | 0 | 2 | 2 |
| Total | 0 | 21 | 21 | 0 | 16 | 16 |
| East Leg | | | | | | |
| Approach | 390 | 9 | 399 | 414 | 13 | 427 |
| Departure | 310 | 25 | 335 | 375 | 28 | 403 |
| Total | 700 | 34 | 734 | 789 | 41 | 830 |
| West Leg | | | | | | |
| Approach | 310 | 4 | 314 | 375 | 16 | 391 |
| Departure | 390 | 9 | 399 | 414 | 13 | 427 |
| Total | 700 | 13 | 713 | 789 | 29 | 818 |
| Total Approaches | | | | | | |
| Approach | 700 | 34 | 734 | 789 | 43 | 832 |
| Departure | 700 | 34 | 734 | 789 | 43 | 832 |
| Total | 1,400 | 68 | 1,468 | 1,578 | 86 | 1,664 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **9 Project Driveway 3/Behymer Avenue** | | | | | | |
| NBL | 0 | 0 | 0 | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 | 0 | 0 | 0 |
| NBR | 0 | 28 | 28 | 0 | 19 | 19 |
| SBL | 0 | 0 | 0 | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 | 0 | 0 | 0 |
| EBT | 310 | 23 | 333 | 375 | 22 | 397 |
| EBR | 0 | 2 | 2 | 0 | 6 | 6 |
| WBL | 0 | 22 | 22 | 0 | 71 | 71 |
| WBT | 390 | 9 | 399 | 414 | 13 | 427 |
| WBR | 0 | 0 | 0 | 0 | 0 | 0 |
| North Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| South Leg | | | | | | |
| Approach | 0 | 28 | 28 | 0 | 19 | 19 |
| Departure | 0 | 24 | 24 | 0 | 77 | 77 |
| Total | 0 | 52 | 52 | 0 | 96 | 96 |
| East Leg | | | | | | |
| Approach | 390 | 31 | 421 | 414 | 84 | 498 |
| Departure | 310 | 51 | 361 | 375 | 41 | 416 |
| Total | 700 | 82 | 782 | 789 | 125 | 914 |
| West Leg | | | | | | |
| Approach | 310 | 25 | 335 | 375 | 28 | 403 |
| Departure | 390 | 9 | 399 | 414 | 13 | 427 |
| Total | 700 | 34 | 734 | 789 | 41 | 830 |
| Total Approaches | | | | | | |
| Approach | 700 | 84 | 784 | 789 | 131 | 920 |
| Departure | 700 | 84 | 784 | 789 | 131 | 920 |
| Total | 1,400 | 168 | 1,568 | 1,578 | 262 | 1,840 |

## Table D-3 - Cumulative (2046) Peak Hour Volume Summary

| | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|
| | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project | Cumulative (2046) Without Project | Project Trips | Cumulative (2046) Plus Project |
| **10 Project Driveway 4/Behymer Avenue** | | | | | | |
| NBL | 0 | 0 | 0 | 0 | 0 | 0 |
| NBT | 0 | 0 | 0 | 0 | 0 | 0 |
| NBR | 0 | 28 | 28 | 0 | 19 | 19 |
| SBL | 0 | 0 | 0 | 0 | 0 | 0 |
| SBT | 0 | 0 | 0 | 0 | 0 | 0 |
| SBR | 0 | 0 | 0 | 0 | 0 | 0 |
| EBL | 0 | 0 | 0 | 0 | 0 | 0 |
| EBT | 310 | 48 | 358 | 375 | 33 | 408 |
| EBR | 0 | 2 | 2 | 0 | 8 | 8 |
| WBL | 0 | 0 | 0 | 0 | 0 | 0 |
| WBT | 390 | 31 | 421 | 414 | 84 | 498 |
| WBR | 0 | 0 | 0 | 0 | 0 | 0 |
| North Leg | | | | | | |
| Approach | 0 | 0 | 0 | 0 | 0 | 0 |
| Departure | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
| South Leg | | | | | | |
| Approach | 0 | 28 | 28 | 0 | 19 | 19 |
| Departure | 0 | 2 | 2 | 0 | 8 | 8 |
| Total | 0 | 30 | 30 | 0 | 27 | 27 |
| East Leg | | | | | | |
| Approach | 390 | 31 | 421 | 414 | 84 | 498 |
| Departure | 310 | 76 | 386 | 375 | 52 | 427 |
| Total | 700 | 107 | 807 | 789 | 136 | 925 |
| West Leg | | | | | | |
| Approach | 310 | 50 | 360 | 375 | 41 | 416 |
| Departure | 390 | 31 | 421 | 414 | 84 | 498 |
| Total | 700 | 81 | 781 | 789 | 125 | 914 |
| Total Approaches | | | | | | |
| Approach | 700 | 109 | 809 | 789 | 144 | 933 |
| Departure | 700 | 109 | 809 | 789 | 144 | 933 |
| Total | 1,400 | 218 | 1,618 | 1,578 | 288 | 1,866 |

# APPENDIX E

# LEVEL OF SERVICE WORKSHEETS

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Cumulative Year NP_AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 84 | 222 | 267 | 547 | 289 | 330 | 193 | 784 | 265 | 148 | 913 | 57 |
| Future Volume (veh/h) | 84 | 222 | 267 | 547 | 289 | 330 | 193 | 784 | 265 | 148 | 913 | 57 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 87 | 229 | 275 | 564 | 298 | 340 | 199 | 808 | 273 | 153 | 941 | 59 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 126 | 370 | 314 | 268 | 209 | 239 | 230 | 1690 | 525 | 183 | 1549 | 481 |
| Arrive On Green | 0.07 | 0.20 | 0.20 | 0.15 | 0.26 | 0.26 | 0.13 | 0.33 | 0.33 | 0.10 | 0.31 | 0.31 |
| Sat Flow, veh/h | 1767 | 1856 | 1572 | 1781 | 797 | 910 | 1781 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 87 | 229 | 275 | 564 | 0 | 638 | 199 | 808 | 273 | 153 | 941 | 59 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1856 | 1572 | 1781 | 0 | 1707 | 1781 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 4.9 | 11.6 | 17.4 | 15.4 | 0.0 | 26.9 | 11.2 | 12.9 | 14.3 | 8.7 | 16.2 | 2.8 |
| Cycle Q Clear(g_c), s | 4.9 | 11.6 | 17.4 | 15.4 | 0.0 | 26.9 | 11.2 | 12.9 | 14.3 | 8.7 | 16.2 | 2.8 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.53 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 126 | 370 | 314 | 268 | 0 | 448 | 230 | 1690 | 525 | 183 | 1549 | 481 |
| V/C Ratio(X) | 0.69 | 0.62 | 0.88 | 2.11 | 0.00 | 1.42 | 0.87 | 0.48 | 0.52 | 0.83 | 0.61 | 0.12 |
| Avail Cap(c_a), veh/h | 238 | 425 | 361 | 268 | 0 | 448 | 255 | 1958 | 608 | 253 | 1942 | 603 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 46.5 | 37.5 | 39.8 | 43.5 | 0.0 | 37.8 | 43.8 | 27.3 | 27.7 | 45.1 | 30.3 | 25.7 |
| Incr Delay (d2), s/veh | 2.5 | 2.5 | 19.6 | 510.8 | 0.0 | 203.4 | 22.0 | 0.7 | 2.6 | 11.6 | 1.3 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.2 | 5.3 | 8.2 | 44.5 | 0.0 | 36.0 | 6.3 | 5.3 | 5.6 | 4.4 | 6.7 | 1.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 49.0 | 39.9 | 59.4 | 554.3 | 0.0 | 241.2 | 65.7 | 27.9 | 30.3 | 56.6 | 31.6 | 26.0 |
| LnGrp LOS | D | D | E | F | | F | E | C | C | E | C | C |
| Approach Vol, veh/h | | 591 | | | 1202 | | | 1280 | | | 1153 | |
| Approach Delay, s/veh | | 50.3 | | | 388.1 | | | 34.3 | | | 34.6 | |
| Approach LOS | | D | | | F | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 18.5 | 37.0 | 13.5 | 33.4 | 15.9 | 39.6 | 20.0 | 26.9 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 13.2 | 18.2 | 6.9 | 28.9 | 10.7 | 16.3 | 17.4 | 19.4 |
| Green Ext Time (p_c), s | 0.0 | 13.1 | 0.0 | 0.0 | 0.1 | 14.1 | 0.0 | 1.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 137.3 |
| HCM 7th LOS | F |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Benyamer Project

## 2: Willow Avenue & Perrin Avenue

Cumulative Year NP_AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 278 | 119 | 209 | 197 | 181 | 76 | 160 | 861 | 134 | 45 | 1252 | 449 |
| Future Volume (veh/h) | 278 | 119 | 209 | 197 | 181 | 76 | 160 | 861 | 134 | 45 | 1252 | 449 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 287 | 123 | 215 | 203 | 187 | 78 | 165 | 888 | 138 | 46 | 1291 | 463 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 338 | 340 | 288 | 249 | 247 | 209 | 274 | 2055 | 638 | 102 | 1930 | 599 |
| Arrive On Green | 0.19 | 0.18 | 0.18 | 0.14 | 0.13 | 0.13 | 0.08 | 0.40 | 0.40 | 0.06 | 0.38 | 0.38 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1810 | 1900 | 1610 | 3456 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 287 | 123 | 215 | 203 | 187 | 78 | 165 | 888 | 138 | 46 | 1291 | 463 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1810 | 1900 | 1610 | 1728 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 15.6 | 5.8 | 12.8 | 10.9 | 9.5 | 4.4 | 4.6 | 12.6 | 5.7 | 2.5 | 21.2 | 25.8 |
| Cycle Q Clear(g_c), s | 15.6 | 5.8 | 12.8 | 10.9 | 9.5 | 4.4 | 4.6 | 12.6 | 5.7 | 2.5 | 21.2 | 25.8 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 338 | 340 | 288 | 249 | 247 | 209 | 274 | 2055 | 638 | 102 | 1930 | 599 |
| V/C Ratio(X) | 0.85 | 0.36 | 0.75 | 0.81 | 0.76 | 0.37 | 0.60 | 0.43 | 0.22 | 0.45 | 0.67 | 0.77 |
| Avail Cap(c_a), veh/h | 476 | 449 | 380 | 398 | 367 | 311 | 276 | 2055 | 638 | 171 | 1975 | 613 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 39.1 | 35.8 | 38.7 | 41.9 | 42.0 | 39.8 | 44.5 | 21.6 | 19.6 | 45.6 | 25.7 | 27.2 |
| Incr Delay (d2), s/veh | 16.3 | 1.8 | 10.8 | 16.0 | 12.4 | 3.0 | 2.5 | 0.5 | 0.6 | 1.2 | 1.5 | 8.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 8.1 | 2.7 | 5.7 | 5.9 | 5.3 | 1.9 | 2.1 | 5.0 | 2.1 | 1.1 | 8.5 | 10.5 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 55.4 | 37.6 | 49.6 | 57.9 | 54.4 | 42.8 | 47.1 | 22.1 | 20.1 | 46.7 | 27.2 | 35.4 |
| LnGrp LOS | E | D | D | E | D | D | D | C | C | D | C | D |
| Approach Vol, veh/h | | 625 | | | 468 | | | 1191 | | | 1800 | |
| Approach Delay, s/veh | | 49.9 | | | 54.0 | | | 25.3 | | | 29.8 | |
| Approach LOS | | D | | | D | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.2 | 43.8 | 24.3 | 18.7 | 11.1 | 46.0 | 19.1 | 23.9 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 5.3 | 5.7 | 5.3 | 5.7 | 5.3 | 5.7 |
| Max Green Setting (Gmax), s | 8.0 | 39.0 | 26.7 | 19.3 | 9.7 | 37.3 | 22.0 | 24.0 |
| Max Q Clear Time (g_c+I1), s | 6.6 | 27.8 | 17.6 | 11.5 | 4.5 | 14.6 | 12.9 | 14.8 |
| Green Ext Time (p_c), s | 0.0 | 10.3 | 1.4 | 1.5 | 0.0 | 14.0 | 0.9 | 2.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 34.4 |
| HCM 7th LOS | C |

| Intersection | |
|---|---|
| Int Delay, s/veh | 73.2 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 0 | 309 | 60 | 39 | 961 | 7 | 62 | 56 | 35 | 36 | 47 | 1 |
| Future Vol, veh/h | 0 | 309 | 60 | 39 | 961 | 7 | 62 | 56 | 35 | 36 | 47 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 336 | 65 | 42 | 1045 | 8 | 67 | 61 | 38 | 39 | 51 | 1 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1052 | 0 | 0 | 401 | 0 | 0 | 1523 | 1505 | 368 | 1499 | 1534 | 1048 |
| Stage 1 | - | - | - | - | - | - | 368 | 368 | - | 1133 | 1133 | - |
| Stage 2 | - | - | - | - | - | - | 1155 | 1137 | - | 366 | 401 | - |
| Critical Hdwy | 4.13 | - | - | 4.11 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.227 | - | - | 2.209 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 658 | - | - | 1163 | - | - | 98 | 122 | 682 | 102 | 117 | 279 |
| Stage 1 | - | - | - | - | - | - | 655 | 625 | - | 249 | 280 | - |
| Stage 2 | - | - | - | - | - | - | 242 | 279 | - | 657 | 604 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 658 | - | - | 1163 | - | - | ~ 48 | 112 | 682 | 42 | 107 | 279 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | ~ 48 | 112 | - | 42 | 107 | - |
| Stage 1 | - | - | - | - | - | - | 655 | 625 | - | 227 | 256 | - |
| Stage 2 | - | - | - | - | - | - | 176 | 255 | - | 560 | 604 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0.32 | $ 568.33 | $ 366.02 |
| HCM LOS | | | F | F |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 84 | 658 | - | - | 70 | - | - | 64 |
| HCM Lane V/C Ratio | 1.991 | - | - | - | 0.036 | - | - | 1.418 |
| HCM Control Delay (s/veh) | $ 568.3 | 0 | - | - | 8.2 | 0 | - | $ 366 |
| HCM Lane LOS | F | A | - | - | A | A | - | F |
| HCM 95th %tile Q(veh) | 14.6 | 0 | - | - | 0.1 | - | - | 7.8 |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 480.6 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 12 | 222 | 153 | 63 | 512 | 279 | 177 | 317 | 35 | 250 | 544 | 23 |
| Future Vol, veh/h | 12 | 222 | 153 | 63 | 512 | 279 | 177 | 317 | 35 | 250 | 544 | 23 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 12 | 229 | 158 | 65 | 528 | 288 | 182 | 327 | 36 | 258 | 561 | 24 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 136.2 | 630.6 | 281.2 | 616 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 33% | 3% | 7% | 31% |
| Vol Thru, % | 60% | 57% | 60% | 67% |
| Vol Right, % | 7% | 40% | 33% | 3% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 529 | 387 | 854 | 817 |
| LT Vol | 177 | 12 | 63 | 250 |
| Through Vol | 317 | 222 | 512 | 544 |
| RT Vol | 35 | 153 | 279 | 23 |
| Lane Flow Rate | 545 | 399 | 880 | 842 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 1.466 | 1.044 | 2.307 | 2.268 |
| Departure Headway (Hd) | 19.313 | 21.735 | 14.634 | 15.645 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 196 | 172 | 255 | 244 |
| Service Time | 17.313 | 19.735 | 12.634 | 13.645 |
| HCM Lane V/C Ratio | 2.781 | 2.32 | 3.451 | 3.451 |
| HCM Control Delay, s/veh | 281.2 | 136.2 | 630.6 | 616 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 16.9 | 8.5 | 44.9 | 41.2 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 522 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 85 | 129 | 121 | 22 | 144 | 4 | 96 | 523 | 18 | 3 | 962 | 140 |
| Future Vol, veh/h | 85 | 129 | 121 | 22 | 144 | 4 | 96 | 523 | 18 | 3 | 962 | 140 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 92 | 140 | 132 | 24 | 157 | 4 | 104 | 568 | 20 | 3 | 1046 | 152 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1984 | 1925 | 1122 | 1909 | 1991 | 578 | 1198 | 0 | 0 | 588 | 0 | 0 |
| Stage 1 | 1128 | 1128 | - | 787 | 787 | - | - | - | - | - | - | - |
| Stage 2 | 855 | 797 | - | 1122 | 1204 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | ~ 46 | ~ 67 | 251 | 52 | ~ 61 | 515 | 579 | - | - | 982 | - | - |
| Stage 1 | 248 | 279 | - | 385 | 403 | - | - | - | - | - | - | - |
| Stage 2 | 353 | 399 | - | 250 | 257 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | ~ 33 | ~ 48 | 251 | ~ 18 | ~ 44 | 515 | 579 | - | - | 982 | - | - |
| Mov Cap-2 Maneuver | ~ 33 | ~ 48 | - | ~ 18 | ~ 44 | - | - | - | - | - | - | - |
| Stage 1 | 246 | 276 | - | 282 | 295 | - | - | - | - | - | - | - |
| Stage 2 | 120 | 292 | - | 58 | 254 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay | $ 2494.76 | $ 1976.85 | 1.9 | 0.02 |
| HCM LOS | F | F | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 269 | - | - | 58 | 38 | 5 | - | - |
| HCM Lane V/C Ratio | 0.18 | - | - | 6.237 | 4.918 | 0.003 | - | - |
| HCM Control Delay (s/veh) | 12.6 | 0 | - | $ 2494.8 | $ 1976.9 | 8.7 | 0 | - |
| HCM Lane LOS | B | A | - | F | F | A | A | - |
| HCM 95th %tile Q(veh) | 0.7 | - | - | 41.5 | 21.6 | 0 | - | - |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 150 | 564 | 508 | 106 | 503 | 322 | 260 | 387 | 51 | 297 | 966 | 221 |
| Future Volume (veh/h) | 150 | 564 | 508 | 106 | 503 | 322 | 260 | 387 | 51 | 297 | 966 | 221 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 421 | 55 | 323 | 1050 | 240 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 190 | 1050 | 468 | 156 | 517 | 438 | 304 | 517 | 438 | 304 | 517 | 438 |
| Arrive On Green | 0.11 | 0.30 | 0.30 | 0.09 | 0.28 | 0.28 | 0.17 | 0.28 | 0.28 | 0.17 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 421 | 55 | 323 | 1050 | 240 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 11.1 | 18.1 | 36.4 | 7.8 | 34.0 | 25.2 | 19.3 | 25.9 | 3.2 | 21.0 | 34.0 | 15.9 |
| Cycle Q Clear(g_c), s | 11.1 | 18.1 | 36.4 | 7.8 | 34.0 | 25.2 | 19.3 | 25.9 | 3.2 | 21.0 | 34.0 | 15.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 190 | 1050 | 468 | 156 | 517 | 438 | 304 | 517 | 438 | 304 | 517 | 438 |
| V/C Ratio(X) | 0.86 | 0.58 | 1.18 | 0.74 | 1.06 | 0.80 | 0.93 | 0.82 | 0.13 | 1.06 | 2.03 | 0.55 |
| Avail Cap(c_a), veh/h | 304 | 1050 | 468 | 304 | 517 | 438 | 304 | 517 | 438 | 304 | 517 | 438 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 53.6 | 36.5 | 42.9 | 54.3 | 44.1 | 40.9 | 49.9 | 41.1 | 33.0 | 50.6 | 44.1 | 37.5 |
| Incr Delay (d2), s/veh | 7.5 | 1.1 | 100.8 | 2.5 | 56.1 | 10.9 | 33.6 | 9.8 | 0.1 | 69.3 | 471.5 | 1.9 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 5.1 | 7.6 | 26.5 | 3.4 | 22.9 | 10.6 | 11.1 | 12.8 | 1.2 | 15.1 | 83.1 | 6.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 61.1 | 37.5 | 143.7 | 56.8 | 100.2 | 51.8 | 83.5 | 51.0 | 33.1 | 119.9 | 515.6 | 39.4 |
| LnGrp LOS | E | D | F | E | F | D | F | D | C | F | F | D |
| Approach Vol, veh/h | | 1328 | | | 1012 | | | 759 | | | 1613 | |
| Approach Delay, s/veh | | 84.6 | | | 78.5 | | | 61.8 | | | 365.5 | |
| Approach LOS | | F | | | E | | | E | | | F | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 25.0 | 40.0 | 17.1 | 40.0 | 25.0 | 40.0 | 14.8 | 42.4 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 21.3 | 36.0 | 13.1 | 36.0 | 23.0 | 27.9 | 9.8 | 38.4 |
| Green Ext Time (p_c), s | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 1.4 | 0.1 | 0.0 |

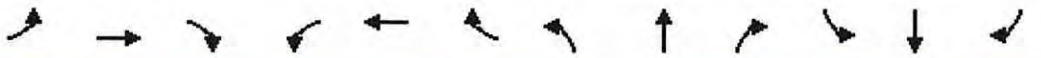
| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 175.8 |
| HCM 7th LOS | F |

HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project
1: Willow Avenue & Behymer Avenue Cumulative Year NP_PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 22 | 254 | 237 | 526 | 252 | 254 | 215 | 889 | 670 | 244 | 655 | 42 |
| Future Volume (veh/h) | 22 | 254 | 237 | 526 | 252 | 254 | 215 | 889 | 670 | 244 | 655 | 42 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 24 | 276 | 258 | 572 | 274 | 276 | 234 | 966 | 728 | 265 | 712 | 46 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 67 | 347 | 294 | 244 | 231 | 233 | 235 | 1800 | 559 | 235 | 1800 | 559 |
| Arrive On Green | 0.04 | 0.19 | 0.19 | 0.14 | 0.27 | 0.27 | 0.13 | 0.35 | 0.35 | 0.13 | 0.35 | 0.35 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1781 | 855 | 861 | 1795 | 5147 | 1598 | 1795 | 5147 | 1598 |
| Grp Volume(v), veh/h | 24 | 276 | 258 | 572 | 0 | 550 | 234 | 966 | 728 | 265 | 712 | 46 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1781 | 0 | 1715 | 1795 | 1716 | 1598 | 1795 | 1716 | 1598 |
| Q Serve(g_s), s | 1.5 | 15.8 | 17.8 | 15.4 | 0.0 | 30.4 | 14.6 | 16.9 | 39.3 | 14.7 | 11.7 | 2.2 |
| Cycle Q Clear(g_c), s | 1.5 | 15.8 | 17.8 | 15.4 | 0.0 | 30.4 | 14.6 | 16.9 | 39.3 | 14.7 | 11.7 | 2.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.50 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 67 | 347 | 294 | 244 | 0 | 465 | 235 | 1800 | 559 | 235 | 1800 | 559 |
| V/C Ratio(X) | 0.36 | 0.80 | 0.88 | 2.34 | 0.00 | 1.18 | 1.00 | 0.54 | 1.30 | 1.13 | 0.40 | 0.08 |
| Avail Cap(c_a), veh/h | 219 | 391 | 332 | 244 | 0 | 465 | 235 | 1800 | 559 | 235 | 1800 | 559 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 52.7 | 43.7 | 44.5 | 48.5 | 0.0 | 41.0 | 48.8 | 29.2 | 36.5 | 48.8 | 27.6 | 24.4 |
| Incr Delay (d2), s/veh | 1.2 | 10.3 | 21.3 | 616.7 | 0.0 | 102.9 | 57.5 | 0.8 | 148.8 | 97.5 | 0.5 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.7 | 8.1 | 8.5 | 48.5 | 0.0 | 25.6 | 10.3 | 7.0 | 37.7 | 12.9 | 4.9 | 0.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 53.9 | 54.0 | 65.8 | 665.1 | 0.0 | 143.9 | 106.3 | 30.1 | 185.3 | 146.3 | 28.0 | 24.6 |
| LnGrp LOS | D | D | E | F | | F | F | C | F | F | C | C |
| Approach Vol, veh/h | | 558 | | | 1122 | | | 1928 | | | 1023 | |
| Approach Delay, s/veh | | 59.4 | | | 409.6 | | | 97.9 | | | 58.5 | |
| Approach LOS | | E | | | F | | | F | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 20.0 | 45.0 | 10.4 | 36.9 | 20.0 | 45.0 | 20.0 | 27.3 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 16.6 | 13.7 | 3.5 | 32.4 | 16.7 | 41.3 | 17.4 | 19.8 |
| Green Ext Time (p_c), s | 0.0 | 11.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 160.1 |
| HCM 7th LOS | F |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 449 | 233 | 333 | 246 | 197 | 107 | 273 | 1373 | 280 | 120 | 908 | 401 |
| Future Volume (veh/h) | 449 | 233 | 333 | 246 | 197 | 107 | 273 | 1373 | 280 | 120 | 908 | 401 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 473 | 245 | 351 | 259 | 207 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 436 | 411 | 349 | 297 | 266 | 225 | 251 | 1715 | 532 | 142 | 1808 | 561 |
| Arrive On Green | 0.24 | 0.22 | 0.22 | 0.16 | 0.14 | 0.14 | 0.07 | 0.33 | 0.33 | 0.08 | 0.35 | 0.35 |
| Sat Flow, veh/h | 1810 | 1900 | 1610 | 1810 | 1900 | 1610 | 3483 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 473 | 245 | 351 | 259 | 207 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1900 | 1610 | 1810 | 1900 | 1610 | 1742 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 26.7 | 12.9 | 24.0 | 15.5 | 11.7 | 7.2 | 8.0 | 28.9 | 16.7 | 7.6 | 16.3 | 25.6 |
| Cycle Q Clear(g_c), s | 26.7 | 12.9 | 24.0 | 15.5 | 11.7 | 7.2 | 8.0 | 28.9 | 16.7 | 7.6 | 16.3 | 25.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 436 | 411 | 349 | 297 | 266 | 225 | 251 | 1715 | 532 | 142 | 1808 | 561 |
| V/C Ratio(X) | 1.09 | 0.60 | 1.01 | 0.87 | 0.78 | 0.50 | 1.14 | 0.84 | 0.55 | 0.89 | 0.53 | 0.75 |
| Avail Cap(c_a), veh/h | 436 | 411 | 349 | 359 | 331 | 280 | 251 | 1732 | 538 | 142 | 1825 | 566 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 42.1 | 39.1 | 43.4 | 45.2 | 46.0 | 44.1 | 51.4 | 34.3 | 30.2 | 50.6 | 28.8 | 31.9 |
| Incr Delay (d2), s/veh | 68.0 | 4.2 | 49.9 | 22.7 | 14.5 | 4.7 | 100.4 | 4.8 | 3.2 | 42.9 | 0.8 | 7.9 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 19.7 | 6.3 | 14.1 | 8.8 | 6.5 | 3.1 | 7.0 | 12.6 | 6.7 | 5.1 | 6.9 | 10.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 110.1 | 43.3 | 93.4 | 67.9 | 60.5 | 48.8 | 151.9 | 39.1 | 33.4 | 93.4 | 29.7 | 39.8 |
| LnGrp LOS | F | D | F | E | E | D | F | D | C | F | C | D |
| Approach Vol, veh/h | | 1069 | | | 579 | | | 2027 | | | 1504 | |
| Approach Delay, s/veh | | 89.3 | | | 61.5 | | | 54.2 | | | 37.9 | |
| Approach LOS | | F | | | E | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.3 | 44.3 | 32.0 | 21.2 | 15.0 | 42.6 | 23.5 | 29.7 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 5.3 | 5.7 | 6.3 | 5.7 | 5.3 | 5.7 |
| Max Green Setting (Gmax), s | 8.0 | 39.0 | 26.7 | 19.3 | 8.7 | 37.3 | 22.0 | 24.0 |
| Max Q Clear Time (g_c+I1), s | 10.0 | 27.6 | 28.7 | 13.7 | 9.6 | 30.9 | 17.5 | 26.0 |
| Green Ext Time (p_c), s | 0.0 | 9.4 | 0.0 | 1.4 | 0.0 | 6.1 | 0.8 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 57.5 |
| HCM 7th LOS | E |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1808.2 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 772 | 83 | 48 | 620 | 36 | 95 | 74 | 54 | 10 | 75 | 1 |
| Future Vol, veh/h | 1 | 772 | 83 | 48 | 620 | 36 | 95 | 74 | 54 | 10 | 75 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 821 | 88 | 51 | 660 | 38 | 101 | 79 | 57 | 11 | 80 | 1 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 698 | 0 | 0 | 910 | 0 | 0 | 1669 | 1668 | 865 | 1644 | 1693 | 679 |
| Stage 1 | - | - | - | - | - | - | 868 | 868 | - | 781 | 781 | - |
| Stage 2 | - | - | - | - | - | - | 802 | 800 | - | 863 | 912 | - |
| Critical Hdwy | 4.12 | - | - | 4.1 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.2 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 898 | - | - | 757 | - | - | ~ 77 | 97 | 356 | 81 | 94 | 455 |
| Stage 1 | - | - | - | - | - | - | 350 | 373 | - | 391 | 408 | - |
| Stage 2 | - | - | - | - | - | - | 381 | 400 | - | 352 | 356 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 898 | - | - | 757 | - | - | ~ 3 | 86 | 356 | ~ 6 | 83 | 455 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | ~ 3 | 86 | - | ~ 6 | 83 | - |
| Stage 1 | - | - | - | - | - | - | 349 | 372 | - | 348 | 363 | - |
| Stage 2 | - | - | - | - | - | - | 263 | 356 | - | 232 | 355 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0.01 | 0.69 | $ 14749.01 | $ 1047.33 |
| HCM LOS | | | F | F |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 7 | 2 | - | - | 121 | - | - | 33 |
| HCM Lane V/C Ratio | 31.633 | 0.001 | - | - | 0.067 | - | - | 2.755 |
| HCM Control Delay (s/veh) | $ 14749 | 9 | 0 | - | 10.1 | 0 | - | $ 1047.3 |
| HCM Lane LOS | F | A | A | - | B | A | - | F |
| HCM 95th %tile Q(veh) | 31.5 | 0 | - | - | 0.2 | - | - | 10.5 |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 560.3 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 14 | 472 | 161 | 35 | 463 | 223 | 229 | 628 | 64 | 226 | 310 | 10 |
| Future Vol, veh/h | 14 | 472 | 161 | 35 | 463 | 223 | 229 | 628 | 64 | 226 | 310 | 10 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 15 | 508 | 173 | 38 | 498 | 240 | 246 | 675 | 69 | 243 | 333 | 11 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 445.4 | 526.3 | 793.7 | 347.5 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 25% | 2% | 5% | 41% |
| Vol Thru, % | 68% | 73% | 64% | 57% |
| Vol Right, % | 7% | 25% | 31% | 2% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 921 | 647 | 721 | 546 |
| LT Vol | 229 | 14 | 35 | 226 |
| Through Vol | 628 | 472 | 463 | 310 |
| RT Vol | 64 | 161 | 223 | 10 |
| Lane Flow Rate | 990 | 696 | 775 | 587 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 2.652 | 1.833 | 2.029 | 1.585 |
| Departure Headway (Hd) | 18.567 | 22.768 | 21.387 | 25.128 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 208 | 167 | 178 | 153 |
| Service Time | 16.567 | 20.768 | 19.387 | 23.128 |
| HCM Lane V/C Ratio | 4.76 | 4.168 | 4.354 | 3.837 |
| HCM Control Delay, s/veh | 793.7 | 445.4 | 526.3 | 347.5 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 44.4 | 21.5 | 26.5 | 15.8 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1955.5 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 129 | 179 | 149 | 23 | 177 | 5 | 161 | 1069 | 18 | 4 | 597 | 111 |
| Future Vol, veh/h | 129 | 179 | 149 | 23 | 177 | 5 | 161 | 1069 | 18 | 4 | 597 | 111 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 136 | 188 | 157 | 24 | 186 | 5 | 169 | 1125 | 19 | 4 | 628 | 117 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 2253 | 2178 | 687 | 2205 | 2227 | 1135 | 745 | 0 | 0 | 1144 | 0 | 0 |
| Stage 1 | 695 | 695 | - | 1474 | 1474 | - | - | - | - | - | - | - |
| Stage 2 | 1557 | 1483 | - | 731 | 754 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | ~ 29 | ~ 46 | 447 | 32 | ~ 43 | 246 | 863 | - | - | 607 | - | - |
| Stage 1 | 432 | 444 | - | 158 | 191 | - | - | - | - | - | - | - |
| Stage 2 | 141 | 189 | - | 413 | 417 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | ~ 13 | ~ 21 | 447 | ~ 9 | ~ 19 | 246 | 863 | - | - | 607 | - | - |
| Mov Cap-2 Maneuver | ~ 13 | ~ 21 | - | ~ 9 | ~ 19 | - | - | - | - | - | - | - |
| Stage 1 | 427 | 438 | - | 72 | ~ 87 | - | - | - | - | - | - | - |
| Stage 2 | - | ~ 86 | - | 151 | 412 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay | $ 8767.32 | $ 5458.01 | 1.31 | 0.06 |
| HCM LOS | F | F | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 231 | - | - | 24 | 18 | 10 | - | - |
| HCM Lane V/C Ratio | 0.196 | - | - | 19.802 | 12.193 | 0.007 | - | - |
| HCM Control Delay (s/veh) | 10.2 | 0 | - | $ 8767.3 | $ 5458 | 11 | 0 | - |
| HCM Lane LOS | B | A | - | F | F | B | A | - |
| HCM 95th %tile Q(veh) | 0.7 | - | - | 60.1 | 27.7 | 0 | - | - |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 322 | 511 | 441 | 48 | 383 | 329 | 473 | 1066 | 90 | 199 | 673 | 230 |
| Future Volume (veh/h) | 322 | 511 | 441 | 48 | 383 | 329 | 473 | 1066 | 90 | 199 | 673 | 230 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 1122 | 95 | 209 | 708 | 242 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 300 | 1215 | 542 | 131 | 462 | 392 | 295 | 562 | 476 | 235 | 497 | 421 |
| Arrive On Green | 0.17 | 0.34 | 0.34 | 0.07 | 0.24 | 0.24 | 0.17 | 0.30 | 0.30 | 0.13 | 0.27 | 0.27 |
| Sat Flow, veh/h | 1810 | 3610 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 1122 | 95 | 209 | 708 | 242 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1805 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 21.0 | 14.7 | 34.1 | 3.4 | 25.8 | 26.3 | 21.0 | 38.1 | 5.7 | 14.8 | 34.0 | 16.9 |
| Cycle Q Clear(g_c), s | 21.0 | 14.7 | 34.1 | 3.4 | 25.8 | 26.3 | 21.0 | 38.1 | 5.7 | 14.8 | 34.0 | 16.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 300 | 1215 | 542 | 131 | 462 | 392 | 295 | 562 | 476 | 235 | 497 | 421 |
| V/C Ratio(X) | 1.13 | 0.44 | 0.86 | 0.39 | 0.87 | 0.88 | 1.69 | 2.00 | 0.20 | 0.89 | 1.42 | 0.57 |
| Avail Cap(c_a), veh/h | 300 | 1215 | 542 | 300 | 509 | 432 | 295 | 562 | 476 | 293 | 497 | 421 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 52.9 | 32.8 | 39.2 | 56.2 | 46.1 | 46.3 | 52.9 | 44.4 | 33.0 | 54.1 | 46.4 | 40.2 |
| Incr Delay (d2), s/veh | 92.4 | 0.4 | 13.3 | 0.7 | 15.3 | 19.0 | 324.3 | 454.3 | 0.2 | 20.7 | 202.1 | 2.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 16.9 | 6.3 | 14.8 | 1.5 | 13.7 | 12.2 | 35.7 | 87.9 | 2.1 | 7.9 | 43.5 | 6.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 145.3 | 33.2 | 52.5 | 56.9 | 61.4 | 65.3 | 377.3 | 498.7 | 33.2 | 74.8 | 248.6 | 42.5 |
| LnGrp LOS | F | C | D | E | E | E | F | F | C | E | F | D |
| Approach Vol, veh/h | | 1341 | | | 800 | | | 1715 | | | 1159 | |
| Approach Delay, s/veh | | 68.2 | | | 62.8 | | | 437.7 | | | 174.2 | |
| Approach LOS | | E | | | E | | | F | | | F | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 25.0 | 40.0 | 25.0 | 36.9 | 20.9 | 44.1 | 13.2 | 48.7 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 23.0 | 36.0 | 23.0 | 28.3 | 16.8 | 40.1 | 5.4 | 36.1 |
| Green Ext Time (p_c), s | 0.0 | 0.0 | 0.0 | 2.6 | 0.1 | 0.0 | 0.0 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 218.2 |
| HCM 7th LOS | F |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Cumulative Year WP_AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 84 | 223 | 267 | 547 | 293 | 337 | 193 | 784 | 265 | 150 | 913 | 57 |
| Future Volume (veh/h) | 84 | 223 | 267 | 547 | 293 | 337 | 193 | 784 | 265 | 150 | 913 | 57 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 87 | 230 | 275 | 564 | 302 | 347 | 199 | 808 | 273 | 155 | 941 | 59 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 126 | 370 | 314 | 268 | 208 | 239 | 230 | 1684 | 523 | 186 | 1549 | 481 |
| Arrive On Green | 0.07 | 0.20 | 0.20 | 0.15 | 0.26 | 0.26 | 0.13 | 0.33 | 0.33 | 0.10 | 0.31 | 0.31 |
| Sat Flow, veh/h | 1767 | 1856 | 1572 | 1781 | 794 | 912 | 1781 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 87 | 230 | 275 | 564 | 0 | 649 | 199 | 808 | 273 | 155 | 941 | 59 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1856 | 1572 | 1781 | 0 | 1706 | 1781 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 4.9 | 11.6 | 17.4 | 15.4 | 0.0 | 26.9 | 11.2 | 12.9 | 14.3 | 8.8 | 16.2 | 2.8 |
| Cycle Q Clear(g_c), s | 4.9 | 11.6 | 17.4 | 15.4 | 0.0 | 26.9 | 11.2 | 12.9 | 14.3 | 8.8 | 16.2 | 2.8 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.53 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 126 | 370 | 314 | 268 | 0 | 448 | 230 | 1684 | 523 | 186 | 1549 | 481 |
| V/C Ratio(X) | 0.69 | 0.62 | 0.88 | 2.11 | 0.00 | 1.45 | 0.87 | 0.48 | 0.52 | 0.84 | 0.61 | 0.12 |
| Avail Cap(c_a), veh/h | 238 | 425 | 361 | 268 | 0 | 448 | 255 | 1958 | 608 | 253 | 1942 | 603 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 46.5 | 37.5 | 39.8 | 43.5 | 0.0 | 37.8 | 43.8 | 27.3 | 27.8 | 45.0 | 30.3 | 25.7 |
| Incr Delay (d2), s/veh | 2.5 | 2.5 | 19.6 | 510.8 | 0.0 | 214.2 | 22.0 | 0.7 | 2.6 | 12.1 | 1.3 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.2 | 5.4 | 8.2 | 44.5 | 0.0 | 37.4 | 6.3 | 5.3 | 5.6 | 4.5 | 6.7 | 1.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 49.0 | 40.0 | 59.4 | 554.3 | 0.0 | 252.0 | 65.7 | 28.0 | 30.4 | 57.1 | 31.6 | 26.0 |
| LnGrp LOS | D | D | E | F | | F | E | C | C | E | C | C |
| Approach Vol, veh/h | | 592 | | | 1213 | | | 1280 | | | 1155 | |
| Approach Delay, s/veh | | 50.4 | | | 392.6 | | | 34.4 | | | 34.7 | |
| Approach LOS | | D | | | F | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 18.5 | 37.0 | 13.5 | 33.4 | 16.1 | 39.5 | 20.0 | 26.9 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 13.2 | 18.2 | 6.9 | 28.9 | 10.8 | 16.3 | 17.4 | 19.4 |
| Green Ext Time (p_c), s | 0.0 | 13.1 | 0.0 | 0.0 | 0.1 | 14.1 | 0.0 | 1.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 139.2 |
| HCM 7th LOS | F |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 2: Willow Avenue & Perrin Avenue

Cumulative Year WP_AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 278 | 126 | 209 | 197 | 200 | 76 | 160 | 861 | 134 | 45 | 1252 | 449 |
| Future Volume (veh/h) | 278 | 126 | 209 | 197 | 200 | 76 | 160 | 861 | 134 | 45 | 1252 | 449 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 287 | 130 | 215 | 203 | 206 | 78 | 165 | 888 | 138 | 46 | 1291 | 463 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 337 | 357 | 302 | 249 | 264 | 223 | 270 | 1979 | 614 | 101 | 1908 | 592 |
| Arrive On Green | 0.19 | 0.19 | 0.19 | 0.14 | 0.14 | 0.14 | 0.08 | 0.39 | 0.39 | 0.06 | 0.38 | 0.38 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1810 | 1900 | 1610 | 3456 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 287 | 130 | 215 | 203 | 206 | 78 | 165 | 888 | 138 | 46 | 1291 | 463 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1810 | 1900 | 1610 | 1728 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 15.8 | 6.1 | 12.9 | 11.0 | 10.6 | 4.4 | 4.7 | 13.1 | 5.9 | 2.6 | 21.6 | 26.4 |
| Cycle Q Clear(g_c), s | 15.8 | 6.1 | 12.9 | 11.0 | 10.6 | 4.4 | 4.7 | 13.1 | 5.9 | 2.6 | 21.6 | 26.4 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 337 | 357 | 302 | 249 | 264 | 223 | 270 | 1979 | 614 | 101 | 1908 | 592 |
| V/C Ratio(X) | 0.85 | 0.36 | 0.71 | 0.82 | 0.78 | 0.35 | 0.61 | 0.45 | 0.22 | 0.45 | 0.68 | 0.78 |
| Avail Cap(c_a), veh/h | 469 | 443 | 375 | 393 | 362 | 307 | 273 | 1979 | 614 | 152 | 1949 | 605 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 39.7 | 35.7 | 38.4 | 42.5 | 42.2 | 39.5 | 45.2 | 23.0 | 20.8 | 46.2 | 26.4 | 27.9 |
| Incr Delay (d2), s/veh | 16.7 | 1.7 | 9.0 | 16.4 | 14.0 | 2.6 | 2.8 | 0.5 | 0.6 | 1.2 | 1.6 | 8.8 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 8.2 | 2.9 | 5.6 | 6.0 | 6.0 | 1.9 | 2.1 | 5.2 | 2.2 | 1.2 | 8.7 | 10.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 56.4 | 37.4 | 47.4 | 58.8 | 56.1 | 42.1 | 48.0 | 23.5 | 21.4 | 47.4 | 28.0 | 36.7 |
| LnGrp LOS | E | D | D | E | E | D | D | C | C | D | C | D |
| Approach Vol, veh/h | | 632 | | | 487 | | | 1191 | | | 1800 | |
| Approach Delay, s/veh | | 49.4 | | | 55.0 | | | 26.7 | | | 30.8 | |
| Approach LOS | | D | | | E | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.2 | 43.9 | 24.5 | 19.8 | 12.1 | 45.0 | 19.2 | 25.0 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 5.3 | 5.7 | 6.3 | 5.7 | 5.3 | 5.7 |
| Max Green Setting (Gmax), s | 8.0 | 39.0 | 26.7 | 19.3 | 8.7 | 37.3 | 22.0 | 24.0 |
| Max Q Clear Time (g_c+I1), s | 6.7 | 28.4 | 17.8 | 12.6 | 4.6 | 15.1 | 13.0 | 14.9 |
| Green Ext Time (p_c), s | 0.0 | 9.8 | 1.4 | 1.4 | 0.0 | 13.8 | 0.9 | 2.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 35.3 |
| HCM 7th LOS | D |

| Intersection | |
|---|---|
| Int Delay, s/veh | 93.5 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 0 | 312 | 60 | 45 | 964 | 7 | 70 | 56 | 36 | 36 | 47 | 1 |
| Future Vol, veh/h | 0 | 312 | 60 | 45 | 964 | 7 | 70 | 56 | 36 | 36 | 47 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 339 | 65 | 49 | 1048 | 8 | 76 | 61 | 39 | 39 | 51 | 1 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1055 | 0 | 0 | 404 | 0 | 0 | 1543 | 1525 | 372 | 1519 | 1554 | 1052 |
| Stage 1 | - | - | - | - | - | - | 372 | 372 | - | 1149 | 1149 | - |
| Stage 2 | - | - | - | - | - | - | 1171 | 1153 | - | 370 | 404 | - |
| Critical Hdwy | 4.13 | - | - | 4.11 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.227 | - | - | 2.209 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 656 | - | - | 1160 | - | - | 95 | 119 | 679 | 98 | 114 | 278 |
| Stage 1 | - | - | - | - | - | - | 653 | 623 | - | 244 | 275 | - |
| Stage 2 | - | - | - | - | - | - | 237 | 274 | - | 655 | 602 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 656 | - | - | 1160 | - | - | ~ 45 | 107 | 679 | ~ 38 | 103 | 278 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | ~ 45 | 107 | - | ~ 38 | 103 | - |
| Stage 1 | - | - | - | - | - | - | 653 | 623 | - | 219 | 247 | - |
| Stage 2 | - | - | - | - | - | - | 168 | 246 | - | 557 | 602 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0.36 | $ 722.9 | $ 420.75 |
| HCM LOS | | | F | F |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 76 | 656 | - | - | 80 | - | - | 60 |
| HCM Lane V/C Ratio | 2.325 | - | - | - | 0.042 | - | - | 1.53 |
| HCM Control Delay (s/veh) | $ 722.9 | 0 | - | - | 8.2 | 0 | - | $ 420.8 |
| HCM Lane LOS | F | A | - | - | A | A | - | F |
| HCM 95th %tile Q(veh) | 16.5 | 0 | - | - | 0.1 | - | - | 8.2 |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 492.8 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 16 | 259 | 181 | 63 | 525 | 279 | 187 | 317 | 35 | 250 | 544 | 24 |
| Future Vol, veh/h | 16 | 259 | 181 | 63 | 525 | 279 | 187 | 317 | 35 | 250 | 544 | 24 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 16 | 267 | 187 | 65 | 541 | 288 | 193 | 327 | 36 | 258 | 561 | 25 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 199.1 | 649.5 | 296.9 | 619.6 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 35% | 4% | 7% | 31% |
| Vol Thru, % | 59% | 57% | 61% | 67% |
| Vol Right, % | 6% | 40% | 32% | 3% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 539 | 456 | 867 | 818 |
| LT Vol | 187 | 16 | 63 | 250 |
| Through Vol | 317 | 259 | 525 | 544 |
| RT Vol | 35 | 181 | 279 | 24 |
| Lane Flow Rate | 556 | 470 | 894 | 843 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 1.494 | 1.23 | 2.343 | 2.27 |
| Departure Headway (Hd) | 20.679 | 22.13 | 15.793 | 16.701 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 183 | 169 | 241 | 228 |
| Service Time | 18.679 | 20.13 | 13.793 | 14.701 |
| HCM Lane V/C Ratio | 3.038 | 2.781 | 3.71 | 3.697 |
| HCM Control Delay, s/veh | 296.9 | 199.1 | 649.5 | 619.6 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 16.6 | 11.3 | 42.9 | 38.9 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 563.3 |

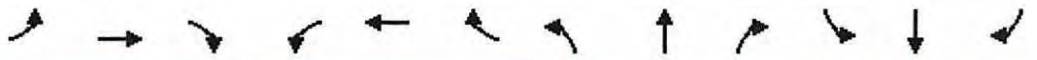
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 85 | 129 | 121 | 22 | 144 | 4 | 96 | 533 | 18 | 3 | 990 | 140 |
| Future Vol, veh/h | 85 | 129 | 121 | 22 | 144 | 4 | 96 | 533 | 18 | 3 | 990 | 140 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 92 | 140 | 132 | 24 | 157 | 4 | 104 | 579 | 20 | 3 | 1076 | 152 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 2025 | 1966 | 1152 | 1951 | 2033 | 589 | 1228 | 0 | 0 | 599 | 0 | 0 |
| Stage 1 | 1159 | 1159 | - | 798 | 798 | - | - | - | - | - | - | - |
| Stage 2 | 866 | 808 | - | 1153 | 1235 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | ~ 43 | ~ 63 | 241 | 48 | ~ 57 | 508 | 564 | - | - | 973 | - | - |
| Stage 1 | 238 | 270 | - | 380 | 398 | - | - | - | - | - | - | - |
| Stage 2 | 348 | 394 | - | 240 | 249 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | ~ 30 | ~ 45 | 241 | ~ 16 | ~ 41 | 508 | 564 | - | - | 973 | - | - |
| Mov Cap-2 Maneuver | ~ 30 | ~ 45 | - | ~ 16 | ~ 41 | - | - | - | - | - | - | - |
| Stage 1 | 236 | 267 | - | 274 | 287 | - | - | - | - | - | - | - |
| Stage 2 | 113 | 284 | - | 51 | 246 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay | $ 2721.78 | $ 2200.21 | 1.9 | 0.02 |
| HCM LOS | F | F | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 265 | - | - | 54 | 34 | 5 | - | - |
| HCM Lane V/C Ratio | 0.185 | - | - | 6.721 | 5.376 | 0.003 | - | - |
| HCM Control Delay (s/veh) | 12.8 | 0 | - | $ 2721.8 | $ 2200.2 | 8.7 | 0 | - |
| HCM Lane LOS | B | A | - | F | F | A | A | - |
| HCM 95th %tile Q(veh) | 0.7 | - | - | 42 | 22 | 0 | - | - |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 150 | 564 | 508 | 106 | 503 | 322 | 260 | 397 | 51 | 297 | 994 | 221 |
| Future Volume (veh/h) | 150 | 564 | 508 | 106 | 503 | 322 | 260 | 397 | 51 | 297 | 994 | 221 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 432 | 55 | 323 | 1080 | 240 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 190 | 1050 | 468 | 156 | 517 | 438 | 304 | 517 | 438 | 304 | 517 | 438 |
| Arrive On Green | 0.11 | 0.30 | 0.30 | 0.09 | 0.28 | 0.28 | 0.17 | 0.28 | 0.28 | 0.17 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 432 | 55 | 323 | 1080 | 240 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 11.1 | 18.1 | 36.4 | 7.8 | 34.0 | 25.2 | 19.3 | 26.7 | 3.2 | 21.0 | 34.0 | 15.9 |
| Cycle Q Clear(g_c), s | 11.1 | 18.1 | 36.4 | 7.8 | 34.0 | 25.2 | 19.3 | 26.7 | 3.2 | 21.0 | 34.0 | 15.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 190 | 1050 | 468 | 156 | 517 | 438 | 304 | 517 | 438 | 304 | 517 | 438 |
| V/C Ratio(X) | 0.86 | 0.58 | 1.18 | 0.74 | 1.06 | 0.80 | 0.93 | 0.84 | 0.13 | 1.06 | 2.09 | 0.55 |
| Avail Cap(c_a), veh/h | 304 | 1050 | 468 | 304 | 517 | 438 | 304 | 517 | 438 | 304 | 517 | 438 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 53.6 | 36.5 | 42.9 | 54.3 | 44.1 | 40.9 | 49.9 | 41.5 | 33.0 | 50.6 | 44.1 | 37.5 |
| Incr Delay (d2), s/veh | 7.5 | 1.1 | 100.8 | 2.5 | 56.1 | 10.9 | 33.6 | 11.5 | 0.1 | 69.3 | 497.5 | 1.9 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 5.1 | 7.6 | 26.5 | 3.4 | 22.9 | 10.6 | 11.1 | 13.4 | 1.2 | 15.1 | 86.8 | 6.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 61.1 | 37.5 | 143.7 | 56.8 | 100.2 | 51.8 | 83.5 | 53.0 | 33.1 | 119.9 | 541.6 | 39.4 |
| LnGrp LOS | E | D | F | E | F | D | F | D | C | F | F | D |
| Approach Vol, veh/h | | 1328 | | | 1012 | | | 770 | | | 1643 | |
| Approach Delay, s/veh | | 84.6 | | | 78.5 | | | 62.8 | | | 385.3 | |
| Approach LOS | | F | | | E | | | E | | | F | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 25.0 | 40.0 | 17.1 | 40.0 | 25.0 | 40.0 | 14.8 | 42.4 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 21.3 | 36.0 | 13.1 | 36.0 | 23.0 | 28.7 | 9.8 | 38.4 |
| Green Ext Time (p_c), s | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 1.3 | 0.1 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 183.7 |
| HCM 7th LOS | F |

| Intersection | |
|---|---|
| Int Delay, s/veh | 2 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 54 | 8 | 148 | 19 | 3 | 112 |
| Future Vol, veh/h | 54 | 8 | 148 | 19 | 3 | 112 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 59 | 9 | 161 | 21 | 3 | 122 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 299 | 171 | 0 | 0 | 182 | 0 |
| Stage 1 | 171 | - | - | - | - | - |
| Stage 2 | 128 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 692 | 873 | - | - | 1394 | - |
| Stage 1 | 859 | - | - | - | - | - |
| Stage 2 | 898 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 690 | 873 | - | - | 1394 | - |
| Mov Cap-2 Maneuver | 690 | - | - | - | - | - |
| Stage 1 | 859 | - | - | - | - | - |
| Stage 2 | 895 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | 10.61 | 0 | 0.2 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 709 | 47 | - |
| HCM Lane V/C Ratio | - | - | 0.095 | 0.002 | - |
| HCM Control Delay (s/veh) | - | - | 10.6 | 7.6 | 0 |
| HCM Lane LOS | - | - | B | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.3 | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.3 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 314 | 0 | 0 | 399 | 0 | 21 |
| Future Vol, veh/h | 314 | 0 | 0 | 399 | 0 | 21 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 341 | 0 | 0 | 434 | 0 | 23 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 341 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 701 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 701 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.31 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 701 | - | - | - |
| HCM Lane V/C Ratio | 0.033 | - | - | - |
| HCM Control Delay (s/veh) | 10.3 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.6 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | ↰ | ↑ | | ↱ |
| Traffic Vol, veh/h | 333 | 2 | 22 | 399 | 0 | 28 |
| Future Vol, veh/h | 333 | 2 | 22 | 399 | 0 | 28 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 362 | 2 | 24 | 434 | 0 | 30 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 364 | 0 | - | 363 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | 4.12 | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | 2.218 | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1194 | - | 0 | 682 |
| Stage 1 | - | - | - | - | 0 | - |
| Stage 2 | - | - | - | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 1194 | - | - | 682 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0.42 | 10.53 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 682 | - | - | 1194 | - |
| HCM Lane V/C Ratio | 0.045 | - | - | 0.02 | - |
| HCM Control Delay (s/veh) | 10.5 | - | - | 8.1 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.1 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.4 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | | ↑ | | ↱ |
| Traffic Vol, veh/h | 358 | 2 | 0 | 421 | 0 | 28 |
| Future Vol, veh/h | 358 | 2 | 0 | 421 | 0 | 28 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 389 | 2 | 0 | 458 | 0 | 30 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 390 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 658 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 658 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.73 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 658 | - | - | - |
| HCM Lane V/C Ratio | 0.046 | - | - | - |
| HCM Control Delay (s/veh) | 10.7 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Cumulative Year WP_PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 22 | 259 | 237 | 526 | 255 | 259 | 215 | 889 | 670 | 252 | 655 | 42 |
| Future Volume (veh/h) | 22 | 259 | 237 | 526 | 255 | 259 | 215 | 889 | 670 | 252 | 655 | 42 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 24 | 282 | 258 | 572 | 277 | 282 | 234 | 966 | 728 | 274 | 712 | 46 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 67 | 347 | 294 | 248 | 234 | 238 | 235 | 1800 | 559 | 237 | 1814 | 563 |
| Arrive On Green | 0.04 | 0.19 | 0.19 | 0.14 | 0.27 | 0.27 | 0.13 | 0.35 | 0.35 | 0.13 | 0.35 | 0.35 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1810 | 863 | 879 | 1795 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 24 | 282 | 258 | 572 | 0 | 559 | 234 | 966 | 728 | 274 | 712 | 46 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1810 | 0 | 1742 | 1795 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 1.5 | 16.2 | 17.8 | 15.4 | 0.0 | 30.4 | 14.6 | 16.9 | 39.3 | 14.7 | 11.6 | 2.1 |
| Cycle Q Clear(g_c), s | 1.5 | 16.2 | 17.8 | 15.4 | 0.0 | 30.4 | 14.6 | 16.9 | 39.3 | 14.7 | 11.6 | 2.1 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.50 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 67 | 347 | 294 | 248 | 0 | 472 | 235 | 1800 | 559 | 237 | 1814 | 563 |
| V/C Ratio(X) | 0.36 | 0.81 | 0.88 | 2.31 | 0.00 | 1.18 | 1.00 | 0.54 | 1.30 | 1.16 | 0.39 | 0.08 |
| Avail Cap(c_a), veh/h | 219 | 391 | 332 | 248 | 0 | 472 | 235 | 1800 | 559 | 237 | 1814 | 563 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 52.7 | 43.9 | 44.5 | 48.5 | 0.0 | 41.0 | 48.8 | 29.2 | 36.5 | 48.8 | 27.5 | 24.4 |
| Incr Delay (d2), s/veh | 1.2 | 11.6 | 21.2 | 600.3 | 0.0 | 102.9 | 57.5 | 0.8 | 148.9 | 107.6 | 0.4 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.7 | 8.4 | 8.5 | 48.1 | 0.0 | 26.1 | 10.3 | 7.0 | 37.7 | 13.7 | 4.9 | 0.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 54.0 | 55.5 | 65.7 | 648.8 | 0.0 | 143.9 | 106.3 | 30.1 | 185.4 | 156.4 | 28.0 | 24.6 |
| LnGrp LOS | D | E | E | F | | F | F | C | F | F | C | C |
| Approach Vol, veh/h | | 564 | | | 1131 | | | 1928 | | | 1032 | |
| Approach Delay, s/veh | | 60.1 | | | 399.2 | | | 98.0 | | | 61.9 | |
| Approach LOS | | E | | | F | | | F | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 20.0 | 45.0 | 10.4 | 36.9 | 20.0 | 45.0 | 20.0 | 27.4 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 16.6 | 13.6 | 3.5 | 32.4 | 16.7 | 41.3 | 17.4 | 19.8 |
| Green Ext Time (p_c), s | 0.0 | 11.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 158.6 |
| HCM 7th LOS | F |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Be[illegible]

## 2: Willow Avenue & Perrin Avenue

Cumulative Year WP_PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 449 | 255 | 333 | 246 | 210 | 107 | 273 | 1373 | 280 | 120 | 908 | 401 |
| Future Volume (veh/h) | 449 | 255 | 333 | 246 | 210 | 107 | 273 | 1373 | 280 | 120 | 908 | 401 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 473 | 268 | 351 | 259 | 221 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 435 | 415 | 352 | 297 | 271 | 229 | 251 | 1710 | 531 | 142 | 1803 | 560 |
| Arrive On Green | 0.24 | 0.22 | 0.22 | 0.16 | 0.14 | 0.14 | 0.07 | 0.33 | 0.33 | 0.08 | 0.35 | 0.35 |
| Sat Flow, veh/h | 1810 | 1900 | 1610 | 1810 | 1900 | 1610 | 3483 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 473 | 268 | 351 | 259 | 221 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1900 | 1610 | 1810 | 1900 | 1610 | 1742 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 26.7 | 14.3 | 24.2 | 15.5 | 12.6 | 7.2 | 8.0 | 29.0 | 16.8 | 7.7 | 16.4 | 25.8 |
| Cycle Q Clear(g_c), s | 26.7 | 14.3 | 24.2 | 15.5 | 12.6 | 7.2 | 8.0 | 29.0 | 16.8 | 7.7 | 16.4 | 25.8 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 435 | 415 | 352 | 297 | 271 | 229 | 251 | 1710 | 531 | 142 | 1803 | 560 |
| V/C Ratio(X) | 1.09 | 0.65 | 1.00 | 0.87 | 0.82 | 0.49 | 1.15 | 0.84 | 0.56 | 0.89 | 0.53 | 0.75 |
| Avail Cap(c_a), veh/h | 435 | 415 | 352 | 358 | 330 | 279 | 251 | 1726 | 536 | 142 | 1819 | 565 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 42.2 | 39.5 | 43.4 | 45.3 | 46.3 | 44.0 | 51.6 | 34.5 | 30.4 | 50.8 | 29.0 | 32.1 |
| Incr Delay (d2), s/veh | 69.2 | 5.5 | 47.5 | 22.9 | 17.8 | 4.5 | 101.7 | 4.9 | 3.2 | 43.6 | 0.8 | 8.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 19.9 | 7.1 | 14.0 | 8.8 | 7.2 | 3.1 | 7.0 | 12.7 | 6.7 | 5.2 | 6.9 | 10.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 111.4 | 45.0 | 90.9 | 68.2 | 64.1 | 48.4 | 153.3 | 39.4 | 33.6 | 94.4 | 29.9 | 40.1 |
| LnGrp LOS | F | D | F | E | E | D | F | D | C | F | C | D |
| Approach Vol, veh/h | | 1092 | | | 593 | | | 2027 | | | 1504 | |
| Approach Delay, s/veh | | 88.5 | | | 62.9 | | | 54.7 | | | 38.1 | |
| Approach LOS | | F | | | E | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.3 | 44.3 | 32.0 | 21.5 | 15.0 | 42.6 | 23.6 | 30.0 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 5.3 | 5.7 | 6.3 | 5.7 | 5.3 | 5.7 |
| Max Green Setting (Gmax), s | 8.0 | 39.0 | 26.7 | 19.3 | 8.7 | 37.3 | 22.0 | 24.0 |
| Max Q Clear Time (g_c+I1), s | 10.0 | 27.8 | 28.7 | 14.6 | 9.7 | 31.0 | 17.5 | 26.2 |
| Green Ext Time (p_c), s | 0.0 | 9.4 | 0.0 | 1.3 | 0.0 | 6.0 | 0.7 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 57.9 |
| HCM 7th LOS | E |

| Intersection | |
|---|---|
| Int Delay, s/veh | 674.5 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 783 | 85 | 59 | 622 | 36 | 101 | 74 | 59 | 10 | 75 | 1 |
| Future Vol, veh/h | 1 | 783 | 85 | 59 | 622 | 36 | 101 | 74 | 59 | 10 | 75 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 833 | 90 | 63 | 662 | 38 | 107 | 79 | 63 | 11 | 80 | 1 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 700 | 0 | 0 | 923 | 0 | 0 | 1707 | 1706 | 878 | 1681 | 1732 | 681 |
| Stage 1 | - | - | - | - | - | - | 880 | 880 | - | 806 | 806 | - |
| Stage 2 | - | - | - | - | - | - | 827 | 826 | - | 874 | 926 | - |
| Critical Hdwy | 4.12 | - | - | 4.1 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.2 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 897 | - | - | 748 | - | - | ~ 73 | 92 | 350 | 76 | 89 | 454 |
| Stage 1 | - | - | - | - | - | - | 344 | 368 | - | 378 | 397 | - |
| Stage 2 | - | - | - | - | - | - | 369 | 390 | - | 347 | 350 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 897 | - | - | 748 | - | - | ~ 62 | 79 | 350 | ~ 0 | ~ 76 | 454 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | ~ 62 | 79 | - | ~ 0 | ~ 76 | - |
| Stage 1 | - | - | - | - | - | - | 344 | 367 | - | 326 | 343 | - |
| Stage 2 | - | - | - | - | - | - | 243 | 336 | - | 223 | 349 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0.01 | 0.84 | $ 959.68 | $ 12330.88 |
| HCM LOS | | | F | F |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 86 | 2 | - | - | 147 | - | - | 4 |
| HCM Lane V/C Ratio | 2.896 | 0.001 | - | - | 0.084 | - | - | 24.239 |
| HCM Control Delay (s/veh) | $ 959.7 | 9 | 0 | - | 10.3 | 0 | - | $ 12330.9 |
| HCM Lane LOS | F | A | A | - | B | A | - | F |
| HCM 95th %tile Q(veh) | 24.2 | 0 | - | - | 0.3 | - | - | 13.5 |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 604.9 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 17 | 497 | 180 | 35 | 505 | 223 | 260 | 628 | 64 | 226 | 310 | 15 |
| Future Vol, veh/h | 17 | 497 | 180 | 35 | 505 | 223 | 260 | 628 | 64 | 226 | 310 | 15 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 18 | 534 | 194 | 38 | 543 | 240 | 280 | 675 | 69 | 243 | 333 | 16 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 505.9 | 582.4 | 837 | 359.9 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 27% | 2% | 5% | 41% |
| Vol Thru, % | 66% | 72% | 66% | 56% |
| Vol Right, % | 7% | 26% | 29% | 3% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 952 | 694 | 763 | 551 |
| LT Vol | 260 | 17 | 35 | 226 |
| Through Vol | 628 | 497 | 505 | 310 |
| RT Vol | 64 | 180 | 223 | 15 |
| Lane Flow Rate | 1024 | 746 | 820 | 592 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 2.743 | 1.965 | 2.149 | 1.599 |
| Departure Headway (Hd) | 19.749 | 24.118 | 22.793 | 27.439 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 194 | 164 | 172 | 142 |
| Service Time | 17.749 | 22.118 | 20.793 | 25.439 |
| HCM Lane V/C Ratio | 5.278 | 4.549 | 4.767 | 4.169 |
| HCM Control Delay, s/veh | 837 | 505.9 | 582.4 | 359.9 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 44 | 22.8 | 27.3 | 15.1 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 2292.8 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 129 | 179 | 149 | 23 | 177 | 5 | 161 | 1100 | 18 | 4 | 616 | 111 |
| Future Vol, veh/h | 129 | 179 | 149 | 23 | 177 | 5 | 161 | 1100 | 18 | 4 | 616 | 111 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 136 | 188 | 157 | 24 | 186 | 5 | 169 | 1158 | 19 | 4 | 648 | 117 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 2305 | 2231 | 707 | 2257 | 2280 | 1167 | 765 | 0 | 0 | 1177 | 0 | 0 |
| Stage 1 | 715 | 715 | - | 1506 | 1506 | - | - | - | - | - | - | - |
| Stage 2 | 1590 | 1516 | - | 751 | 774 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | ~ 27 | ~ 43 | 435 | 29 | ~ 40 | 236 | 848 | - | - | 590 | - | - |
| Stage 1 | 422 | 434 | - | 151 | ~ 184 | - | - | - | - | - | - | - |
| Stage 2 | ~ 135 | ~ 182 | - | 403 | 408 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | ~ 11 | ~ 18 | 435 | ~ 8 | ~ 16 | 236 | 848 | - | - | 590 | - | - |
| Mov Cap-2 Maneuver | ~ 11 | ~ 18 | - | ~ 8 | ~ 16 | - | - | - | - | - | - | - |
| Stage 1 | 416 | 429 | - | 63 | ~ 77 | - | - | - | - | - | - | - |
| Stage 2 | - | ~ 76 | - | 143 | 403 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | $ 10462.47 | $ 6553.01 | 1.3 | 0.06 |
| HCM LOS | F | F | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 226 | - | - | 21 | 15 | 10 | - | - |
| HCM Lane V/C Ratio | 0.2 | - | - | 23.449 | 14.462 | 0.007 | - | - |
| HCM Control Delay (s/veh) | 10.3 | 0 | $ | 10462.5 | $ 6553 | 11.1 | 0 | - |
| HCM Lane LOS | B | A | - | F | F | B | A | - |
| HCM 95th %tile Q(veh) | 0.7 | - | - | 60.5 | 28 | 0 | - | - |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

# HCM 7th Signalized Intersection Summary
## 6: Minnewawa Avenue & Shepherd Avenue



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 322 | 511 | 441 | 48 | 383 | 329 | 473 | 1097 | 90 | 199 | 692 | 230 |
| Future Volume (veh/h) | 322 | 511 | 441 | 48 | 383 | 329 | 473 | 1097 | 90 | 199 | 692 | 230 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 1155 | 95 | 209 | 728 | 242 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 300 | 1215 | 542 | 131 | 462 | 392 | 295 | 562 | 476 | 235 | 497 | 421 |
| Arrive On Green | 0.17 | 0.34 | 0.34 | 0.07 | 0.24 | 0.24 | 0.17 | 0.30 | 0.30 | 0.13 | 0.27 | 0.27 |
| Sat Flow, veh/h | 1810 | 3610 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 1155 | 95 | 209 | 728 | 242 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1805 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 21.0 | 14.7 | 34.1 | 3.4 | 25.8 | 26.3 | 21.0 | 38.1 | 5.7 | 14.8 | 34.0 | 16.9 |
| Cycle Q Clear(g_c), s | 21.0 | 14.7 | 34.1 | 3.4 | 25.8 | 26.3 | 21.0 | 38.1 | 5.7 | 14.8 | 34.0 | 16.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 300 | 1215 | 542 | 131 | 462 | 392 | 295 | 562 | 476 | 235 | 497 | 421 |
| V/C Ratio(X) | 1.13 | 0.44 | 0.86 | 0.39 | 0.87 | 0.88 | 1.69 | 2.05 | 0.20 | 0.89 | 1.46 | 0.57 |
| Avail Cap(c_a), veh/h | 300 | 1215 | 542 | 300 | 509 | 432 | 295 | 562 | 476 | 293 | 497 | 421 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 52.9 | 32.8 | 39.2 | 56.2 | 46.1 | 46.3 | 52.9 | 44.4 | 33.0 | 54.1 | 46.4 | 40.2 |
| Incr Delay (d2), s/veh | 92.4 | 0.4 | 13.3 | 0.7 | 15.3 | 19.0 | 324.3 | 480.6 | 0.2 | 20.7 | 219.6 | 2.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 16.9 | 6.3 | 14.8 | 1.5 | 13.7 | 12.2 | 35.7 | 92.0 | 2.1 | 7.9 | 45.9 | 6.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 145.3 | 33.2 | 52.5 | 56.9 | 61.4 | 65.3 | 377.3 | 525.0 | 33.2 | 74.8 | 266.1 | 42.5 |
| LnGrp LOS | F | C | D | E | E | E | F | F | C | E | F | D |
| Approach Vol, veh/h | | 1341 | | | 800 | | | 1748 | | | 1179 | |
| Approach Delay, s/veh | | 68.2 | | | 62.8 | | | 456.2 | | | 186.3 | |
| Approach LOS | | E | | | E | | | F | | | F | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 25.0 | 40.0 | 25.0 | 36.9 | 20.9 | 44.1 | 13.2 | 48.7 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 23.0 | 36.0 | 23.0 | 28.3 | 16.8 | 40.1 | 5.4 | 36.1 |
| Green Ext Time (p_c), s | 0.0 | 0.0 | 0.0 | 2.6 | 0.1 | 0.0 | 0.0 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 228.6 |
| HCM 7th LOS | F |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.2 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 36 | 6 | 175 | 61 | 9 | 197 |
| Future Vol, veh/h | 36 | 6 | 175 | 61 | 9 | 197 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 39 | 7 | 190 | 66 | 10 | 214 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 457 | 223 | 0 | 0 | 257 | 0 |
| Stage 1 | 223 | - | - | - | - | - |
| Stage 2 | 234 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 562 | 816 | - | - | 1308 | - |
| Stage 1 | 814 | - | - | - | - | - |
| Stage 2 | 805 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 557 | 816 | - | - | 1308 | - |
| Mov Cap-2 Maneuver | 557 | - | - | - | - | - |
| Stage 1 | 814 | - | - | - | - | - |
| Stage 2 | 798 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | 11.7 | 0 | 0.34 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 583 | 79 | - |
| HCM Lane V/C Ratio | - | - | 0.078 | 0.007 | - |
| HCM Control Delay (s/veh) | - | - | 11.7 | 7.8 | 0 |
| HCM Lane LOS | - | - | B | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.3 | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.2 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | | ↑ | ↑↑ | |
| Traffic Vol, veh/h | 389 | 2 | 0 | 427 | 0 | 14 |
| Future Vol, veh/h | 389 | 2 | 0 | 427 | 0 | 14 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 423 | 2 | 0 | 464 | 0 | 15 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | 888 | 424 |
| Stage 1 | - | - | - | - | 424 | - |
| Stage 2 | - | - | - | - | 464 | - |
| Critical Hdwy | - | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | - | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 314 | 630 |
| Stage 1 | - | - | 0 | - | 660 | - |
| Stage 2 | - | - | 0 | - | 633 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | 314 | 630 |
| Mov Cap-2 Maneuver | - | - | - | - | 314 | - |
| Stage 1 | - | - | - | - | 660 | - |
| Stage 2 | - | - | - | - | 633 | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.85 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 630 | - | - | - |
| HCM Lane V/C Ratio | 0.024 | - | - | - |
| HCM Control Delay (s/veh) | 10.9 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.9 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | | ↑ | Y | |
| Traffic Vol, veh/h | 397 | 6 | 71 | 427 | 0 | 19 |
| Future Vol, veh/h | 397 | 6 | 71 | 427 | 0 | 19 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 432 | 7 | 77 | 464 | 0 | 21 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 438 | 0 | 1053 | 435 |
| Stage 1 | - | - | - | - | 435 | - |
| Stage 2 | - | - | - | - | 618 | - |
| Critical Hdwy | - | - | 4.12 | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1122 | - | 250 | 621 |
| Stage 1 | - | - | - | - | 653 | - |
| Stage 2 | - | - | - | - | 537 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 1122 | - | 227 | 621 |
| Mov Cap-2 Maneuver | - | - | - | - | 227 | - |
| Stage 1 | - | - | - | - | 653 | - |
| Stage 2 | - | - | - | - | 488 | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 1.2 | 10.99 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 621 | - | - | 1122 | - |
| HCM Lane V/C Ratio | 0.033 | - | - | 0.069 | - |
| HCM Control Delay (s/veh) | 11 | - | - | 8.4 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.2 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.2 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | | ↑ | ↑↑ | |
| Traffic Vol, veh/h | 408 | 8 | 0 | 498 | 0 | 19 |
| Future Vol, veh/h | 408 | 8 | 0 | 498 | 0 | 19 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 443 | 9 | 0 | 541 | 0 | 21 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | 989 | 448 |
| Stage 1 | - | - | - | - | 448 | - |
| Stage 2 | - | - | - | - | 541 | - |
| Critical Hdwy | - | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | - | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 274 | 611 |
| Stage 1 | - | - | 0 | - | 644 | - |
| Stage 2 | - | - | 0 | - | 583 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | 274 | 611 |
| Mov Cap-2 Maneuver | - | - | - | - | 274 | - |
| Stage 1 | - | - | - | - | 644 | - |
| Stage 2 | - | - | - | - | 583 | - |

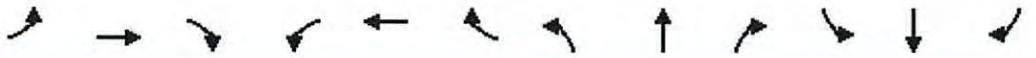
| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 11.1 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 611 | - | - | - |
| HCM Lane V/C Ratio | 0.034 | - | - | - |
| HCM Control Delay (s/veh) | 11.1 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Existing Year NP_AM Peak Hour



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 80 | 129 | 182 | 32 | 135 | 135 | 103 | 693 | 31 | 66 | 611 | 54 |
| Future Volume (veh/h) | 80 | 129 | 182 | 32 | 135 | 135 | 103 | 693 | 31 | 66 | 611 | 54 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 82 | 133 | 188 | 33 | 139 | 139 | 106 | 714 | 32 | 68 | 630 | 56 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 157 | 491 | 416 | 95 | 178 | 178 | 173 | 1511 | 469 | 145 | 1423 | 442 |
| Arrive On Green | 0.09 | 0.26 | 0.26 | 0.05 | 0.21 | 0.21 | 0.10 | 0.30 | 0.30 | 0.08 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1767 | 1856 | 1572 | 1781 | 858 | 858 | 1781 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 82 | 133 | 188 | 33 | 0 | 278 | 106 | 714 | 32 | 68 | 630 | 56 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1856 | 1572 | 1781 | 0 | 1716 | 1781 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 3.2 | 4.1 | 7.3 | 1.3 | 0.0 | 11.2 | 4.2 | 8.3 | 1.1 | 2.7 | 7.4 | 1.9 |
| Cycle Q Clear(g_c), s | 3.2 | 4.1 | 7.3 | 1.3 | 0.0 | 11.2 | 4.2 | 8.3 | 1.1 | 2.7 | 7.4 | 1.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.50 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 157 | 491 | 416 | 95 | 0 | 356 | 173 | 1511 | 469 | 145 | 1423 | 442 |
| V/C Ratio(X) | 0.52 | 0.27 | 0.45 | 0.35 | 0.00 | 0.78 | 0.61 | 0.47 | 0.07 | 0.47 | 0.44 | 0.13 |
| Avail Cap(c_a), veh/h | 335 | 599 | 508 | 377 | 0 | 554 | 360 | 2757 | 856 | 357 | 2735 | 849 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 31.7 | 21.2 | 22.3 | 33.2 | 0.0 | 27.3 | 31.6 | 21.0 | 18.4 | 31.9 | 21.5 | 19.5 |
| Incr Delay (d2), s/veh | 1.0 | 0.3 | 0.8 | 2.1 | 0.0 | 8.1 | 1.3 | 0.2 | 0.1 | 0.9 | 0.7 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.3 | 1.7 | 2.5 | 0.6 | 0.0 | 5.0 | 1.8 | 3.2 | 0.4 | 1.1 | 2.9 | 0.7 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 32.7 | 21.5 | 23.1 | 35.4 | 0.0 | 35.4 | 32.9 | 21.2 | 18.5 | 32.8 | 22.2 | 19.9 |
| LnGrp LOS | C | C | C | D | | D | C | C | B | C | C | B |
| Approach Vol, veh/h | | 403 | | | 311 | | | 852 | | | 754 | |
| Approach Delay, s/veh | | 24.5 | | | 35.4 | | | 22.6 | | | 23.0 | |
| Approach LOS | | C | | | D | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.4 | 26.2 | 12.7 | 21.6 | 11.3 | 27.2 | 8.5 | 25.8 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 6.2 | 9.4 | 5.2 | 13.2 | 4.7 | 10.3 | 3.3 | 9.3 |
| Green Ext Time (p_c), s | 0.1 | 11.0 | 0.0 | 1.9 | 0.0 | 5.6 | 0.0 | 1.1 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 24.8 |
| HCM 7th LOS | C |



| Movement | EBL | EBR | NBL | NBT | SBU | SBT | SBR |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Volume (veh/h) | 165 | 167 | 88 | 685 | 0 | 758 | 99 |
| Future Volume (veh/h) | 165 | 167 | 88 | 685 | 0 | 758 | 99 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | | 1856 | 1856 |
| Adj Flow Rate, veh/h | 170 | 172 | 91 | 706 | | 781 | 102 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | | 3 | 3 |
| Cap, veh/h | 329 | 293 | 386 | 3098 | | 1903 | 591 |
| Arrive On Green | 0.18 | 0.18 | 0.11 | 0.61 | | 0.38 | 0.38 |
| Sat Flow, veh/h | 1781 | 1585 | 3456 | 5274 | | 5233 | 1572 |
| Grp Volume(v), veh/h | 170 | 172 | 91 | 706 | | 781 | 102 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1585 | 1728 | 1702 | | 1689 | 1572 |
| Q Serve(g_s), s | 4.5 | 5.2 | 1.3 | 3.3 | | 6.0 | 2.3 |
| Cycle Q Clear(g_c), s | 4.5 | 5.2 | 1.3 | 3.3 | | 6.0 | 2.3 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | | 1.00 |
| Lane Grp Cap(c), veh/h | 329 | 293 | 386 | 3098 | | 1903 | 591 |
| V/C Ratio(X) | 0.52 | 0.59 | 0.24 | 0.23 | | 0.41 | 0.17 |
| Avail Cap(c_a), veh/h | 834 | 742 | 898 | 3098 | | 2814 | 874 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 19.4 | 19.7 | 21.4 | 4.7 | | 12.2 | 11.0 |
| Incr Delay (d2), s/veh | 3.4 | 5.1 | 0.1 | 0.1 | | 0.5 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.9 | 2.1 | 0.5 | 0.8 | | 2.0 | 0.8 |
| Unsig. Movement Delay, s/veh | | | | | | | |
| LnGrp Delay(d), s/veh | 22.8 | 24.8 | 21.5 | 4.9 | | 12.6 | 11.5 |
| LnGrp LOS | C | C | C | A | | B | B |
| Approach Vol, veh/h | 342 | | | 797 | | 883 | |
| Approach Delay, s/veh | 23.8 | | | 6.8 | | 12.5 | |
| Approach LOS | C | | | A | | B | |

| Timer - Assigned Phs | 1 | 2 | | | 6 | 8 |
|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.2 | 25.5 | | | 37.7 | 15.0 |
| Change Period (Y+Rc), s | 6.3 | 5.7 | | | 5.7 | 5.3 |
| Max Green Setting (Gmax), s | 13.7 | 29.3 | | | 29.3 | 24.7 |
| Max Q Clear Time (g_c+I1), s | 13.3 | 8.0 | | | 5.3 | 7.2 |
| Green Ext Time (p_c), s | 0.1 | 11.8 | | | 10.6 | 2.6 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 12.1 |
| HCM 7th LOS | B |

**Notes**

User approved ignoring U-Turning movement.

| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 0 | 224 | 0 | 0 | 344 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| Future Vol, veh/h | 0 | 224 | 0 | 0 | 344 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 277 | 0 | 0 | 425 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 426 | 0 | - | - | - | 0 | 701 | 702 | 277 | 702 | 702 | 425 |
| Stage 1 | - | - | - | - | - | - | 277 | 277 | - | 425 | 425 | - |
| Stage 2 | - | - | - | - | - | - | 425 | 426 | - | 277 | 277 | - |
| Critical Hdwy | 4.13 | - | - | - | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.227 | - | - | - | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 1128 | - | 0 | 0 | - | - | 356 | 365 | 767 | 356 | 365 | 633 |
| Stage 1 | - | - | 0 | 0 | - | - | 734 | 685 | - | 611 | 590 | - |
| Stage 2 | - | - | 0 | 0 | - | - | 611 | 589 | - | 734 | 685 | - |
| Platoon blocked, % | | - | | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1128 | - | - | - | - | - | 356 | 365 | 767 | 356 | 365 | 633 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 356 | 365 | - | 356 | 365 | - |
| Stage 1 | - | - | - | - | - | - | 734 | 685 | - | 611 | 590 | - |
| Stage 2 | - | - | - | - | - | - | 611 | 589 | - | 734 | 685 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 0 | 15.16 |
| HCM LOS | | | A | C |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|
| Capacity (veh/h) | - | 1128 | - | - | - | 356 |
| HCM Lane V/C Ratio | - | - | - | - | - | 0.003 |
| HCM Control Delay (s/veh) | 0 | 0 | - | - | - | 15.2 |
| HCM Lane LOS | A | A | - | - | - | C |
| HCM 95th %tile Q(veh) | - | 0 | - | - | - | 0 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 59.5 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 4 | 155 | 67 | 25 | 220 | 253 | 65 | 240 | 19 | 175 | 207 | 3 |
| Future Vol, veh/h | 4 | 155 | 67 | 25 | 220 | 253 | 65 | 240 | 19 | 175 | 207 | 3 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.92 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 4 | 160 | 69 | 26 | 227 | 261 | 67 | 261 | 20 | 180 | 213 | 3 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 23.1 | 96.7 | 38.7 | 50.8 |
| HCM LOS | C | F | E | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 20% | 2% | 5% | 45% |
| Vol Thru, % | 74% | 69% | 44% | 54% |
| Vol Right, % | 6% | 30% | 51% | 1% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 324 | 226 | 498 | 385 |
| LT Vol | 65 | 4 | 25 | 175 |
| Through Vol | 240 | 155 | 220 | 207 |
| RT Vol | 19 | 67 | 253 | 3 |
| Lane Flow Rate | 347 | 233 | 513 | 397 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.802 | 0.562 | 1.093 | 0.892 |
| Departure Headway (Hd) | 8.689 | 9.064 | 7.664 | 8.581 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 420 | 401 | 472 | 425 |
| Service Time | 6.689 | 7.064 | 5.707 | 6.581 |
| HCM Lane V/C Ratio | 0.826 | 0.581 | 1.087 | 0.934 |
| HCM Control Delay, s/veh | 38.7 | 23.1 | 96.7 | 50.8 |
| HCM Lane LOS | E | C | F | F |
| HCM 95th-tile Q | 7.2 | 3.3 | 16.8 | 9.3 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.4 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 8 | 0 | 3 | 4 | 0 | 2 | 3 | 309 | 11 | 2 | 337 | 6 |
| Future Vol, veh/h | 8 | 0 | 3 | 4 | 0 | 2 | 3 | 309 | 11 | 2 | 337 | 6 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 9 | 0 | 3 | 4 | 0 | 2 | 3 | 340 | 12 | 2 | 370 | 7 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 724 | 736 | 374 | 727 | 734 | 346 | 377 | 0 | 0 | 352 | 0 | 0 |
| Stage 1 | 378 | 378 | - | 352 | 352 | - | - | - | - | - | - | - |
| Stage 2 | 346 | 358 | - | 375 | 381 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 341 | 346 | 673 | 339 | 348 | 697 | 1176 | - | - | 1202 | - | - |
| Stage 1 | 644 | 615 | - | 665 | 631 | - | - | - | - | - | - | - |
| Stage 2 | 670 | 628 | - | 646 | 613 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 338 | 344 | 673 | 336 | 346 | 697 | 1176 | - | - | 1202 | - | - |
| Mov Cap-2 Maneuver | 338 | 344 | - | 336 | 346 | - | - | - | - | - | - | - |
| Stage 1 | 642 | 614 | - | 662 | 629 | - | - | - | - | - | - | - |
| Stage 2 | 665 | 625 | - | 642 | 612 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 14.5 | 14.01 | 0.07 | 0.05 |
| HCM LOS | B | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 17 | - | - | 391 | 406 | 10 | - | - |
| HCM Lane V/C Ratio | 0.003 | - | - | 0.031 | 0.016 | 0.002 | - | - |
| HCM Control Delay (s/veh) | 8.1 | 0 | - | 14.5 | 14 | 8 | 0 | - |
| HCM Lane LOS | A | A | - | B | B | A | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0.1 | 0 | 0 | - | - |

# HCM 7th Signalized Intersection Summary
## 6: Minnewawa Avenue & Shepherd Avenue



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 34 | 318 | 128 | 14 | 265 | 137 | 120 | 152 | 18 | 91 | 193 | 34 |
| Future Volume (veh/h) | 34 | 318 | 128 | 14 | 265 | 137 | 120 | 152 | 18 | 91 | 193 | 34 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 37 | 346 | 139 | 15 | 288 | 149 | 130 | 165 | 20 | 99 | 210 | 37 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 150 | 978 | 436 | 72 | 432 | 366 | 293 | 348 | 295 | 267 | 320 | 272 |
| Arrive On Green | 0.09 | 0.28 | 0.28 | 0.04 | 0.23 | 0.23 | 0.17 | 0.19 | 0.19 | 0.15 | 0.17 | 0.17 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 37 | 346 | 139 | 15 | 288 | 149 | 130 | 165 | 20 | 99 | 210 | 37 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 1.1 | 4.6 | 4.1 | 0.5 | 8.2 | 4.7 | 3.9 | 4.6 | 0.6 | 2.9 | 6.1 | 1.2 |
| Cycle Q Clear(g_c), s | 1.1 | 4.6 | 4.1 | 0.5 | 8.2 | 4.7 | 3.9 | 4.6 | 0.6 | 2.9 | 6.1 | 1.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 150 | 978 | 436 | 72 | 432 | 366 | 293 | 348 | 295 | 267 | 320 | 272 |
| V/C Ratio(X) | 0.25 | 0.35 | 0.32 | 0.21 | 0.67 | 0.41 | 0.44 | 0.47 | 0.07 | 0.37 | 0.66 | 0.14 |
| Avail Cap(c_a), veh/h | 637 | 2058 | 918 | 637 | 1083 | 918 | 637 | 1083 | 918 | 637 | 1083 | 918 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 24.9 | 16.9 | 16.7 | 27.0 | 20.3 | 18.9 | 21.9 | 21.1 | 19.5 | 22.2 | 22.5 | 20.4 |
| Incr Delay (d2), s/veh | 0.3 | 0.3 | 0.6 | 0.5 | 2.9 | 1.2 | 0.4 | 1.1 | 0.1 | 0.3 | 3.2 | 0.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.4 | 1.6 | 1.3 | 0.2 | 3.3 | 1.5 | 1.4 | 1.8 | 0.2 | 1.2 | 2.8 | 0.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 25.2 | 17.2 | 17.3 | 27.6 | 23.2 | 20.1 | 22.3 | 22.2 | 19.6 | 22.6 | 25.7 | 20.7 |
| LnGrp LOS | C | B | B | C | C | C | C | C | B | C | C | C |
| Approach Vol, veh/h | | 522 | | | 452 | | | 315 | | | 346 | |
| Approach Delay, s/veh | | 17.8 | | | 22.3 | | | 22.0 | | | 24.3 | |
| Approach LOS | | B | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.7 | 16.1 | 9.0 | 19.6 | 12.8 | 16.9 | 6.4 | 22.1 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 5.9 | 8.1 | 3.1 | 10.2 | 4.9 | 6.6 | 2.5 | 6.6 |
| Green Ext Time (p_c), s | 0.1 | 1.9 | 0.0 | 3.4 | 0.1 | 0.9 | 0.0 | 3.9 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 21.2 |
| HCM 7th LOS | C |

HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project
1: Willow Avenue & Behymer Avenue Existing Year NP_PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 21 | 104 | 121 | 55 | 138 | 119 | 119 | 731 | 54 | 95 | 560 | 40 |
| Future Volume (veh/h) | 21 | 104 | 121 | 55 | 138 | 119 | 119 | 731 | 54 | 95 | 560 | 40 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 24 | 121 | 141 | 64 | 160 | 138 | 138 | 850 | 63 | 110 | 651 | 47 |
| Peak Hour Factor | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 74 | 369 | 313 | 141 | 200 | 173 | 178 | 1760 | 546 | 171 | 1750 | 543 |
| Arrive On Green | 0.04 | 0.20 | 0.20 | 0.08 | 0.21 | 0.21 | 0.10 | 0.34 | 0.34 | 0.09 | 0.34 | 0.34 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1810 | 942 | 812 | 1795 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 24 | 121 | 141 | 64 | 0 | 298 | 138 | 850 | 63 | 110 | 651 | 47 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1810 | 0 | 1754 | 1795 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 1.0 | 4.3 | 6.0 | 2.6 | 0.0 | 12.3 | 5.7 | 10.0 | 2.1 | 4.5 | 7.3 | 1.5 |
| Cycle Q Clear(g_c), s | 1.0 | 4.3 | 6.0 | 2.6 | 0.0 | 12.3 | 5.7 | 10.0 | 2.1 | 4.5 | 7.3 | 1.5 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.46 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 74 | 369 | 313 | 141 | 0 | 373 | 178 | 1760 | 546 | 171 | 1750 | 543 |
| V/C Ratio(X) | 0.32 | 0.33 | 0.45 | 0.46 | 0.00 | 0.80 | 0.78 | 0.48 | 0.12 | 0.64 | 0.37 | 0.09 |
| Avail Cap(c_a), veh/h | 321 | 574 | 486 | 364 | 0 | 538 | 345 | 2641 | 820 | 347 | 2661 | 826 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 35.6 | 26.4 | 27.1 | 33.8 | 0.0 | 28.6 | 33.7 | 19.9 | 17.3 | 33.4 | 19.2 | 17.3 |
| Incr Delay (d2), s/veh | 0.9 | 0.6 | 1.2 | 0.9 | 0.0 | 9.4 | 2.8 | 0.7 | 0.3 | 1.5 | 0.4 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.4 | 1.8 | 2.2 | 1.1 | 0.0 | 5.8 | 2.6 | 3.9 | 0.7 | 2.0 | 2.8 | 0.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 36.6 | 27.0 | 28.3 | 34.6 | 0.0 | 38.0 | 36.4 | 20.5 | 17.6 | 35.0 | 19.7 | 17.5 |
| LnGrp LOS | D | C | C | C | | D | D | C | B | C | B | B |
| Approach Vol, veh/h | | 286 | | | 362 | | | 1051 | | | 808 | |
| Approach Delay, s/veh | | 28.4 | | | 37.4 | | | 22.4 | | | 21.6 | |
| Approach LOS | | C | | | D | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.9 | 31.5 | 9.4 | 22.8 | 12.5 | 31.9 | 10.6 | 21.6 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 7.7 | 9.3 | 3.0 | 14.3 | 6.5 | 12.0 | 4.6 | 8.0 |
| Green Ext Time (p_c), s | 0.1 | 11.3 | 0.0 | 1.9 | 0.1 | 14.2 | 0.0 | 1.1 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 25.0 |
| HCM 7th LOS | C |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Benjamin Project

## 2: Willow Avenue & Perrin Avenue

Existing Year NP_PM Peak Hour



| Movement | EBL | EBR | NBL | NBT | SBU | SBT | SBR |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Volume (veh/h) | 114 | 193 | 199 | 855 | 0 | 671 | 89 |
| Future Volume (veh/h) | 114 | 193 | 199 | 855 | 0 | 671 | 89 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | | 1856 | 1856 |
| Adj Flow Rate, veh/h | 120 | 203 | 209 | 900 | | 706 | 94 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | | 0.95 | 0.95 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | | 3 | 3 |
| Cap, veh/h | 348 | 310 | 484 | 3044 | | 1727 | 536 |
| Arrive On Green | 0.20 | 0.20 | 0.14 | 0.60 | | 0.34 | 0.34 |
| Sat Flow, veh/h | 1781 | 1585 | 3456 | 5274 | | 5233 | 1572 |
| Grp Volume(v), veh/h | 120 | 203 | 209 | 900 | | 706 | 94 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1585 | 1728 | 1702 | | 1689 | 1572 |
| Q Serve(g_s), s | 3.2 | 6.5 | 3.0 | 4.7 | | 5.8 | 2.3 |
| Cycle Q Clear(g_c), s | 3.2 | 6.5 | 3.0 | 4.7 | | 5.8 | 2.3 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | | 1.00 |
| Lane Grp Cap(c), veh/h | 348 | 310 | 484 | 3044 | | 1727 | 536 |
| V/C Ratio(X) | 0.34 | 0.65 | 0.43 | 0.30 | | 0.41 | 0.18 |
| Avail Cap(c_a), veh/h | 791 | 704 | 865 | 3044 | | 2711 | 842 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 19.0 | 20.3 | 21.5 | 5.4 | | 13.8 | 12.6 |
| Incr Delay (d2), s/veh | 1.6 | 6.3 | 0.2 | 0.2 | | 0.5 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.3 | 2.6 | 1.1 | 1.2 | | 2.0 | 0.8 |
| Unsig. Movement Delay, s/veh | | | | | | | |
| LnGrp Delay(d), s/veh | 20.6 | 26.6 | 21.8 | 5.6 | | 14.3 | 13.2 |
| LnGrp LOS | C | C | C | A | | B | B |
| Approach Vol, veh/h | 323 | | | 1109 | | 800 | |
| Approach Delay, s/veh | 24.4 | | | 8.7 | | 14.2 | |
| Approach LOS | C | | | A | | B | |

| Timer - Assigned Phs | 1 | 2 | | 6 | 8 |
|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 14.0 | 24.4 | | 38.3 | 16.4 |
| Change Period (Y+Rc), s | 6.3 | 5.7 | | 5.7 | 5.7 |
| Max Green Setting (Gmax), s | 13.7 | 29.3 | | 29.3 | 24.3 |
| Max Q Clear Time (g_c+I1), s | 15.0 | 7.8 | | 6.7 | 8.5 |
| Green Ext Time (p_c), s | 0.2 | 10.8 | | 12.9 | 2.3 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 12.9 |
| HCM 7th LOS | B |

**Notes**

User approved ignoring U-Turning movement.

| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↰ | | | ↱ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 241 | 0 | 0 | 293 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Future Vol, veh/h | 1 | 241 | 0 | 0 | 293 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 256 | 0 | 0 | 312 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 312 | 0 | - | - | - | 0 | 570 | 570 | 256 | 570 | 570 | 312 |
| Stage 1 | - | - | - | - | - | - | 259 | 259 | - | 312 | 312 | - |
| Stage 2 | - | - | - | - | - | - | 312 | 312 | - | 259 | 259 | - |
| Critical Hdwy | 4.12 | - | - | - | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.218 | - | - | - | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 1249 | - | 0 | 0 | - | - | 435 | 434 | 787 | 435 | 434 | 733 |
| Stage 1 | - | - | 0 | 0 | - | - | 751 | 698 | - | 703 | 661 | - |
| Stage 2 | - | - | 0 | 0 | - | - | 703 | 661 | - | 751 | 698 | - |
| Platoon blocked, % | | - | | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1249 | - | - | - | - | - | 434 | 434 | 787 | 435 | 434 | 733 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 434 | 434 | - | 435 | 434 | - |
| Stage 1 | - | - | - | - | - | - | 750 | 697 | - | 703 | 661 | - |
| Stage 2 | - | - | - | - | - | - | 702 | 661 | - | 750 | 697 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0.03 | 0 | 0 | 9.92 |
| HCM LOS | | | A | A |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|
| Capacity (veh/h) | - | 7 | - | - | - | 733 |
| HCM Lane V/C Ratio | - | 0.001 | - | - | - | 0.001 |
| HCM Control Delay (s/veh) | 0 | 7.9 | 0 | - | - | 9.9 |
| HCM Lane LOS | A | A | A | - | - | A |
| HCM 95th %tile Q(veh) | - | 0 | - | - | - | 0 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 56.1 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 2 | 192 | 43 | 15 | 225 | 179 | 61 | 259 | 30 | 187 | 168 | 2 |
| Future Vol, veh/h | 2 | 192 | 43 | 15 | 225 | 179 | 61 | 259 | 30 | 187 | 168 | 2 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 2 | 206 | 46 | 16 | 242 | 192 | 66 | 278 | 32 | 201 | 181 | 2 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 27.2 | 77 | 50.8 | 56 |
| HCM LOS | D | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 17% | 1% | 4% | 52% |
| Vol Thru, % | 74% | 81% | 54% | 47% |
| Vol Right, % | 9% | 18% | 43% | 1% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 350 | 237 | 419 | 357 |
| LT Vol | 61 | 2 | 15 | 187 |
| Through Vol | 259 | 192 | 225 | 168 |
| RT Vol | 30 | 43 | 179 | 2 |
| Lane Flow Rate | 376 | 255 | 451 | 384 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.889 | 0.638 | 1.02 | 0.916 |
| Departure Headway (Hd) | 8.714 | 9.246 | 8.148 | 8.796 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 418 | 392 | 451 | 415 |
| Service Time | 6.714 | 7.246 | 6.148 | 6.796 |
| HCM Lane V/C Ratio | 0.9 | 0.651 | 1 | 0.925 |
| HCM Control Delay, s/veh | 50.8 | 27.2 | 77 | 56 |
| HCM Lane LOS | F | D | F | F |
| HCM 95th-tile Q | 9.2 | 4.3 | 13.6 | 9.9 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.3 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 0 | 0 | 2 | 9 | 0 | 2 | 0 | 338 | 2 | 0 | 250 | 1 |
| Future Vol, veh/h | 0 | 0 | 2 | 9 | 0 | 2 | 0 | 338 | 2 | 0 | 250 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 0 | 0 | 2 | 9 | 0 | 2 | 0 | 356 | 2 | 0 | 263 | 1 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 619 | 622 | 264 | 620 | 621 | 357 | 264 | 0 | 0 | 358 | 0 | 0 |
| Stage 1 | 264 | 264 | - | 357 | 357 | - | - | - | - | - | - | - |
| Stage 2 | 356 | 358 | - | 263 | 264 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 401 | 403 | 775 | 400 | 403 | 687 | 1300 | - | - | 1195 | - | - |
| Stage 1 | 741 | 690 | - | 661 | 628 | - | - | - | - | - | - | - |
| Stage 2 | 662 | 628 | - | 742 | 690 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 399 | 403 | 775 | 399 | 403 | 687 | 1300 | - | - | 1195 | - | - |
| Mov Cap-2 Maneuver | 399 | 403 | - | 399 | 403 | - | - | - | - | - | - | - |
| Stage 1 | 741 | 690 | - | 661 | 628 | - | - | - | - | - | - | - |
| Stage 2 | 660 | 628 | - | 740 | 690 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 9.66 | 13.56 | 0 | 0 |
| HCM LOS | A | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 1300 | - | - | 775 | 432 | 1195 | - | - |
| HCM Lane V/C Ratio | - | - | - | 0.003 | 0.027 | - | - | - |
| HCM Control Delay (s/veh) | 0 | - | - | 9.7 | 13.6 | 0 | - | - |
| HCM Lane LOS | A | - | - | A | B | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | 0.1 | 0 | - | - |

HCM 7th Signalized Intersection Summary De Young Properties Peach and Benymer Project
6: Minnewawa Avenue & Shepherd Avenue Existing Year NP_PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 44 | 295 | 111 | 6 | 240 | 88 | 129 | 205 | 24 | 48 | 169 | 36 |
| Future Volume (veh/h) | 44 | 295 | 111 | 6 | 240 | 88 | 129 | 205 | 24 | 48 | 169 | 36 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 46 | 311 | 117 | 6 | 253 | 93 | 136 | 216 | 25 | 51 | 178 | 38 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 183 | 1047 | 467 | 32 | 393 | 333 | 311 | 415 | 352 | 191 | 288 | 244 |
| Arrive On Green | 0.10 | 0.29 | 0.29 | 0.02 | 0.21 | 0.21 | 0.17 | 0.22 | 0.22 | 0.11 | 0.16 | 0.16 |
| Sat Flow, veh/h | 1810 | 3610 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 46 | 311 | 117 | 6 | 253 | 93 | 136 | 216 | 25 | 51 | 178 | 38 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1805 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 1.3 | 3.7 | 3.1 | 0.2 | 6.7 | 2.7 | 3.8 | 5.6 | 0.7 | 1.5 | 4.9 | 1.2 |
| Cycle Q Clear(g_c), s | 1.3 | 3.7 | 3.1 | 0.2 | 6.7 | 2.7 | 3.8 | 5.6 | 0.7 | 1.5 | 4.9 | 1.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 183 | 1047 | 467 | 32 | 393 | 333 | 311 | 415 | 352 | 191 | 288 | 244 |
| V/C Ratio(X) | 0.25 | 0.30 | 0.25 | 0.19 | 0.64 | 0.28 | 0.44 | 0.52 | 0.07 | 0.27 | 0.62 | 0.16 |
| Avail Cap(c_a), veh/h | 689 | 2225 | 992 | 689 | 1171 | 992 | 678 | 1153 | 977 | 673 | 1143 | 969 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 22.9 | 15.2 | 15.0 | 26.7 | 20.0 | 18.4 | 20.3 | 18.9 | 17.0 | 22.6 | 21.8 | 20.2 |
| Incr Delay (d2), s/veh | 0.3 | 0.2 | 0.4 | 1.1 | 2.9 | 0.7 | 0.4 | 1.1 | 0.1 | 0.3 | 3.0 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.5 | 1.2 | 0.9 | 0.1 | 2.8 | 0.9 | 1.4 | 2.2 | 0.2 | 0.6 | 2.2 | 0.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 23.2 | 15.5 | 15.4 | 27.8 | 22.9 | 19.2 | 20.7 | 20.0 | 17.1 | 22.9 | 24.8 | 20.6 |
| LnGrp LOS | C | B | B | C | C | B | C | B | B | C | C | C |
| Approach Vol, veh/h | | 474 | | | 352 | | | 377 | | | 267 | |
| Approach Delay, s/veh | | 16.2 | | | 22.0 | | | 20.1 | | | 23.8 | |
| Approach LOS | | B | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.6 | 14.6 | 9.6 | 17.4 | 10.0 | 18.2 | 5.0 | 22.0 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 5.8 | 6.9 | 3.3 | 8.7 | 3.5 | 7.6 | 2.2 | 5.7 |
| Green Ext Time (p_c), s | 0.1 | 1.6 | 0.0 | 2.7 | 0.0 | 1.3 | 0.0 | 3.4 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 20.0 |
| HCM 7th LOS | B |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Existing Year WP_AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 80 | 130 | 182 | 90 | 139 | 142 | 103 | 693 | 51 | 68 | 611 | 54 |
| Future Volume (veh/h) | 80 | 130 | 182 | 90 | 139 | 142 | 103 | 693 | 51 | 68 | 611 | 54 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 82 | 134 | 188 | 93 | 143 | 146 | 106 | 714 | 53 | 70 | 630 | 56 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 156 | 429 | 363 | 165 | 181 | 185 | 172 | 1496 | 464 | 146 | 1415 | 439 |
| Arrive On Green | 0.09 | 0.23 | 0.23 | 0.09 | 0.21 | 0.21 | 0.10 | 0.29 | 0.29 | 0.08 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1767 | 1856 | 1572 | 1781 | 848 | 866 | 1781 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 82 | 134 | 188 | 93 | 0 | 289 | 106 | 714 | 53 | 70 | 630 | 56 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1856 | 1572 | 1781 | 0 | 1714 | 1781 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 3.3 | 4.4 | 7.7 | 3.7 | 0.0 | 11.7 | 4.2 | 8.4 | 1.8 | 2.8 | 7.5 | 2.0 |
| Cycle Q Clear(g_c), s | 3.3 | 4.4 | 7.7 | 3.7 | 0.0 | 11.7 | 4.2 | 8.4 | 1.8 | 2.8 | 7.5 | 2.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.51 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 156 | 429 | 363 | 165 | 0 | 366 | 172 | 1496 | 464 | 146 | 1415 | 439 |
| V/C Ratio(X) | 0.52 | 0.31 | 0.52 | 0.56 | 0.00 | 0.79 | 0.62 | 0.48 | 0.11 | 0.48 | 0.45 | 0.13 |
| Avail Cap(c_a), veh/h | 332 | 593 | 503 | 373 | 0 | 548 | 356 | 2731 | 848 | 354 | 2709 | 841 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 32.0 | 23.4 | 24.7 | 31.9 | 0.0 | 27.3 | 31.9 | 21.4 | 19.0 | 32.2 | 21.8 | 19.8 |
| Incr Delay (d2), s/veh | 1.0 | 0.4 | 1.1 | 3.0 | 0.0 | 8.7 | 1.3 | 0.2 | 0.1 | 0.9 | 0.7 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.4 | 1.8 | 0.1 | 1.6 | 0.0 | 5.3 | 1.8 | 3.2 | 0.6 | 1.2 | 2.9 | 0.7 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 33.0 | 23.8 | 25.8 | 34.9 | 0.0 | 36.0 | 33.3 | 21.6 | 19.1 | 33.1 | 22.5 | 20.2 |
| LnGrp LOS | C | C | C | C | | D | C | C | B | C | C | C |
| Approach Vol, veh/h | | 404 | | | 382 | | | 873 | | | 756 | |
| Approach Delay, s/veh | | 26.6 | | | 35.8 | | | 22.9 | | | 23.3 | |
| Approach LOS | | C | | | D | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.4 | 26.2 | 12.7 | 22.2 | 11.4 | 27.2 | 11.4 | 23.5 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 6.2 | 9.5 | 5.3 | 13.7 | 4.8 | 10.4 | 5.7 | 9.7 |
| Green Ext Time (p_c), s | 0.1 | 11.0 | 0.0 | 2.0 | 0.0 | 5.7 | 0.1 | 1.1 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 25.7 |
| HCM 7th LOS | C |



| Movement | EBL | EBR | NBL | NBT | SBU | SBT | SBR |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Volume (veh/h) | 172 | 167 | 88 | 698 | 0 | 797 | 118 |
| Future Volume (veh/h) | 172 | 167 | 88 | 698 | 0 | 797 | 118 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | | 1856 | 1856 |
| Adj Flow Rate, veh/h | 177 | 172 | 91 | 720 | | 822 | 122 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | | 3 | 3 |
| Cap, veh/h | 328 | 292 | 382 | 3125 | | 1949 | 605 |
| Arrive On Green | 0.18 | 0.18 | 0.11 | 0.61 | | 0.38 | 0.38 |
| Sat Flow, veh/h | 1781 | 1585 | 3456 | 5274 | | 5233 | 1572 |
| Grp Volume(v), veh/h | 177 | 172 | 91 | 720 | | 822 | 122 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1585 | 1728 | 1702 | | 1689 | 1572 |
| Q Serve(g_s), s | 4.9 | 5.4 | 1.3 | 3.4 | | 6.4 | 2.8 |
| Cycle Q Clear(g_c), s | 4.9 | 5.4 | 1.3 | 3.4 | | 6.4 | 2.8 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | | 1.00 |
| Lane Grp Cap(c), veh/h | 328 | 292 | 382 | 3125 | | 1949 | 605 |
| V/C Ratio(X) | 0.54 | 0.59 | 0.24 | 0.23 | | 0.42 | 0.20 |
| Avail Cap(c_a), veh/h | 816 | 726 | 878 | 3125 | | 2753 | 855 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 19.9 | 20.1 | 21.9 | 4.7 | | 12.2 | 11.1 |
| Incr Delay (d2), s/veh | 3.8 | 5.1 | 0.1 | 0.1 | | 0.5 | 0.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.1 | 2.1 | 0.5 | 0.9 | | 2.2 | 0.9 |
| Unsig. Movement Delay, s/veh | | | | | | | |
| LnGrp Delay(d), s/veh | 23.7 | 25.3 | 22.0 | 4.9 | | 12.7 | 11.6 |
| LnGrp LOS | C | C | C | A | | B | B |
| Approach Vol, veh/h | 349 | | | 811 | | 944 | |
| Approach Delay, s/veh | 24.5 | | | 6.8 | | 12.5 | |
| Approach LOS | C | | | A | | B | |

| Timer - Assigned Phs | 1 | 2 | | | 6 | 8 |
|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.3 | 26.4 | | | 38.7 | 15.2 |
| Change Period (Y+Rc), s | 6.3 | 5.7 | | | 5.7 | 5.3 |
| Max Green Setting (Gmax), s | 13.7 | 29.3 | | | 29.3 | 24.7 |
| Max Q Clear Time (g_c+I1), s | 13.3 | 8.4 | | | 5.4 | 7.4 |
| Green Ext Time (p_c), s | 0.1 | 12.3 | | | 10.8 | 2.6 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 12.3 |
| HCM 7th LOS | B |

Notes

User approved ignoring U-Turning movement.

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.4 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 0 | 246 | 2 | 2 | 365 | 1 | 48 | 0 | 0 | 1 | 0 | 0 |
| Future Vol, veh/h | 0 | 246 | 2 | 2 | 365 | 1 | 48 | 0 | 0 | 1 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 2 | 2 | 2 | 0 | 2 | 0 |
| Mvmt Flow | 0 | 304 | 2 | 2 | 451 | 1 | 59 | 0 | 0 | 1 | 0 | 0 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 452 | 0 | 0 | 306 | 0 | 0 | 760 | 762 | 305 | 760 | 762 | 451 |
| Stage 1 | - | - | - | - | - | - | 305 | 305 | - | 456 | 456 | - |
| Stage 2 | - | - | - | - | - | - | 456 | 457 | - | 304 | 306 | - |
| Critical Hdwy | 4.13 | - | - | 4.11 | - | - | 7.12 | 6.52 | 6.22 | 7.1 | 6.52 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.1 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.1 | 5.52 | - |
| Follow-up Hdwy | 2.227 | - | - | 2.209 | - | - | 3.518 | 4.018 | 3.318 | 3.5 | 4.018 | 3.3 |
| Pot Cap-1 Maneuver | 1103 | - | - | 1260 | - | - | 322 | 335 | 735 | 325 | 335 | 612 |
| Stage 1 | - | - | - | - | - | - | 705 | 662 | - | 588 | 568 | - |
| Stage 2 | - | - | - | - | - | - | 584 | 568 | - | 710 | 661 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1103 | - | - | 1260 | - | - | 321 | 334 | 735 | 324 | 334 | 612 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 321 | 334 | - | 324 | 334 | - |
| Stage 1 | - | - | - | - | - | - | 705 | 662 | - | 586 | 567 | - |
| Stage 2 | - | - | - | - | - | - | 583 | 566 | - | 710 | 661 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0.04 | 18.71 | 16.15 |
| HCM LOS | | | C | C |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 321 | 1103 | - | - | 1260 | - | - | 324 |
| HCM Lane V/C Ratio | 0.184 | - | - | - | 0.002 | - | - | 0.004 |
| HCM Control Delay (s/veh) | 18.7 | 0 | - | - | 7.9 | - | - | 16.1 |
| HCM Lane LOS | C | A | - | - | A | - | - | C |
| HCM 95th %tile Q(veh) | 0.7 | 0 | - | - | 0 | - | - | 0 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 89.2 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 8 | 162 | 125 | 25 | 222 | 253 | 85 | 240 | 19 | 175 | 207 | 4 |
| Future Vol, veh/h | 8 | 162 | 125 | 25 | 222 | 253 | 85 | 240 | 19 | 175 | 207 | 4 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.92 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 8 | 167 | 129 | 26 | 229 | 261 | 88 | 261 | 20 | 180 | 213 | 4 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 39.3 | 149.9 | 60.8 | 75 |
| HCM LOS | E | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 25% | 3% | 5% | 45% |
| Vol Thru, % | 70% | 55% | 44% | 54% |
| Vol Right, % | 6% | 42% | 51% | 1% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 344 | 295 | 500 | 386 |
| LT Vol | 85 | 8 | 25 | 175 |
| Through Vol | 240 | 162 | 222 | 207 |
| RT Vol | 19 | 125 | 253 | 4 |
| Lane Flow Rate | 368 | 304 | 515 | 398 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.919 | 0.77 | 1.23 | 0.985 |
| Departure Headway (Hd) | 9.809 | 9.91 | 8.592 | 9.708 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 372 | 368 | 423 | 378 |
| Service Time | 7.809 | 7.91 | 6.666 | 7.708 |
| HCM Lane V/C Ratio | 0.989 | 0.826 | 1.217 | 1.053 |
| HCM Control Delay, s/veh | 60.8 | 39.3 | 149.9 | 75 |
| HCM Lane LOS | F | E | F | F |
| HCM 95th-tile Q | 9.5 | 6.3 | 21 | 11.4 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.4 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 8 | 0 | 3 | 4 | 0 | 2 | 3 | 329 | 11 | 2 | 395 | 6 |
| Future Vol, veh/h | 8 | 0 | 3 | 4 | 0 | 2 | 3 | 329 | 11 | 2 | 395 | 6 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 9 | 0 | 3 | 4 | 0 | 2 | 3 | 362 | 12 | 2 | 434 | 7 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 810 | 822 | 437 | 813 | 819 | 368 | 441 | 0 | 0 | 374 | 0 | 0 |
| Stage 1 | 442 | 442 | - | 374 | 374 | - | - | - | - | - | - | - |
| Stage 2 | 368 | 380 | - | 438 | 445 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 299 | 309 | 619 | 297 | 310 | 678 | 1114 | - | - | 1179 | - | - |
| Stage 1 | 595 | 576 | - | 647 | 618 | - | - | - | - | - | - | - |
| Stage 2 | 652 | 614 | - | 597 | 575 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 296 | 307 | 619 | 294 | 308 | 678 | 1114 | - | - | 1179 | - | - |
| Mov Cap-2 Maneuver | 296 | 307 | - | 294 | 308 | - | - | - | - | - | - | - |
| Stage 1 | 593 | 575 | - | 644 | 615 | - | - | - | - | - | - | - |
| Stage 2 | 647 | 611 | - | 592 | 573 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 15.82 | 15.12 | 0.07 | 0.04 |
| HCM LOS | C | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 16 | - | - | 345 | 362 | 9 | - | - |
| HCM Lane V/C Ratio | 0.003 | - | - | 0.035 | 0.018 | 0.002 | - | - |
| HCM Control Delay (s/veh) | 8.2 | 0 | - | 15.8 | 15.1 | 8.1 | 0 | - |
| HCM Lane LOS | A | A | - | C | C | A | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0.1 | 0.1 | 0 | - | - |

HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project
6: Minnewawa Avenue & Shepherd Avenue Existing Year WP_AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 34 | 318 | 128 | 14 | 265 | 148 | 120 | 162 | 18 | 121 | 221 | 34 |
| Future Volume (veh/h) | 34 | 318 | 128 | 14 | 265 | 148 | 120 | 162 | 18 | 121 | 221 | 34 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 37 | 346 | 139 | 15 | 288 | 161 | 130 | 176 | 20 | 132 | 240 | 37 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 153 | 984 | 439 | 73 | 434 | 368 | 290 | 354 | 300 | 289 | 353 | 299 |
| Arrive On Green | 0.08 | 0.27 | 0.27 | 0.04 | 0.23 | 0.23 | 0.16 | 0.19 | 0.19 | 0.16 | 0.19 | 0.19 |
| Sat Flow, veh/h | 1810 | 3610 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 37 | 346 | 139 | 15 | 288 | 161 | 130 | 176 | 20 | 132 | 240 | 37 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1805 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 1.1 | 4.6 | 4.1 | 0.5 | 8.2 | 5.1 | 3.9 | 5.0 | 0.6 | 4.0 | 7.2 | 1.2 |
| Cycle Q Clear(g_c), s | 1.1 | 4.6 | 4.1 | 0.5 | 8.2 | 5.1 | 3.9 | 5.0 | 0.6 | 4.0 | 7.2 | 1.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 153 | 984 | 439 | 73 | 434 | 368 | 290 | 354 | 300 | 289 | 353 | 299 |
| V/C Ratio(X) | 0.24 | 0.35 | 0.32 | 0.20 | 0.66 | 0.44 | 0.45 | 0.50 | 0.07 | 0.46 | 0.68 | 0.12 |
| Avail Cap(c_a), veh/h | 635 | 2051 | 915 | 635 | 1080 | 915 | 625 | 1063 | 901 | 620 | 1054 | 894 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 25.6 | 17.5 | 17.3 | 27.8 | 21.0 | 19.8 | 22.6 | 21.7 | 19.9 | 22.6 | 22.5 | 20.1 |
| Incr Delay (d2), s/veh | 0.3 | 0.3 | 0.6 | 0.5 | 2.9 | 1.3 | 0.4 | 1.2 | 0.1 | 0.4 | 3.3 | 0.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.4 | 1.6 | 1.3 | 0.2 | 3.4 | 1.8 | 1.5 | 2.0 | 0.2 | 1.6 | 3.2 | 0.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 25.9 | 17.8 | 18.0 | 28.3 | 23.8 | 21.1 | 23.0 | 22.9 | 20.0 | 23.1 | 25.8 | 20.4 |
| LnGrp LOS | C | B | B | C | C | C | C | C | C | C | C | C |
| Approach Vol, veh/h | | 522 | | | 464 | | | 326 | | | 409 | |
| Approach Delay, s/veh | | 18.4 | | | 23.0 | | | 22.8 | | | 24.4 | |
| Approach LOS | | B | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.7 | 17.4 | 9.1 | 19.7 | 13.8 | 17.3 | 6.4 | 22.3 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 5.9 | 9.2 | 3.1 | 10.2 | 6.0 | 7.0 | 2.5 | 6.6 |
| Green Ext Time (p_c), s | 0.1 | 2.2 | 0.0 | 3.4 | 0.1 | 1.0 | 0.0 | 3.9 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 21.9 |
| HCM 7th LOS | C |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 48 | 0 | 0 | 5 | 0 |
| Future Vol, veh/h | 0 | 48 | 0 | 0 | 5 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 52 | 0 | 0 | 5 | 0 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 11 | 0 | 0 | 0 | 0 | 0 |
| Stage 1 | 0 | - | - | - | - | - |
| Stage 2 | 11 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 1009 | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | 1012 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 1009 | - | - | - | - | - |
| Mov Cap-2 Maneuver | 1009 | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | 1012 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | | 0 | |
| HCM LOS | - | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | - | - |
| HCM Lane V/C Ratio | - | - | - | - | - |
| HCM Control Delay (s/veh) | - | - | - | - | - |
| HCM Lane LOS | - | - | - | - | - |
| HCM 95th %tile Q(veh) | - | - | - | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.4 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 243 | 5 | 0 | 311 | 0 | 21 |
| Future Vol, veh/h | 243 | 5 | 0 | 311 | 0 | 21 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 264 | 5 | 0 | 338 | 0 | 23 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 267 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 772 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 772 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 9.81 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 772 | - | - | - |
| HCM Lane V/C Ratio | 0.03 | - | - | - |
| HCM Control Delay (s/veh) | 9.8 | - | - | - |
| HCM Lane LOS | A | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.7 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 254 | 10 | 22 | 311 | 0 | 28 |
| Future Vol, veh/h | 254 | 10 | 22 | 311 | 0 | 28 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 276 | 11 | 24 | 338 | 0 | 30 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 287 | 0 | - | 282 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | 4.12 | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | 2.218 | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1275 | - | 0 | 757 |
| Stage 1 | - | - | - | - | 0 | - |
| Stage 2 | - | - | - | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 1275 | - | - | 757 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0.52 | 9.95 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 757 | - | - | 1275 | - |
| HCM Lane V/C Ratio | 0.04 | - | - | 0.019 | - |
| HCM Control Delay (s/veh) | 10 | - | - | 7.9 | - |
| HCM Lane LOS | A | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.1 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.6 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 274 | 7 | 0 | 333 | 0 | 41 |
| Future Vol, veh/h | 274 | 7 | 0 | 333 | 0 | 41 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 298 | 8 | 0 | 362 | 0 | 45 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 302 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 738 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 738 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.19 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 738 | - | - | - |
| HCM Lane V/C Ratio | 0.06 | - | - | - |
| HCM Control Delay (s/veh) | 10.2 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.2 | - | - | - |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Existing Year WP_PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 21 | 109 | 121 | 94 | 141 | 124 | 119 | 731 | 120 | 103 | 560 | 40 |
| Future Volume (veh/h) | 21 | 109 | 121 | 94 | 141 | 124 | 119 | 731 | 120 | 103 | 560 | 40 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 24 | 127 | 141 | 109 | 164 | 144 | 138 | 850 | 140 | 120 | 651 | 47 |
| Peak Hour Factor | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 74 | 348 | 295 | 167 | 202 | 177 | 174 | 1778 | 552 | 171 | 1780 | 552 |
| Arrive On Green | 0.04 | 0.19 | 0.19 | 0.09 | 0.22 | 0.22 | 0.10 | 0.35 | 0.35 | 0.09 | 0.34 | 0.34 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1810 | 933 | 819 | 1795 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 24 | 127 | 141 | 109 | 0 | 308 | 138 | 850 | 140 | 120 | 651 | 47 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1810 | 0 | 1753 | 1795 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 1.0 | 4.7 | 6.2 | 4.6 | 0.0 | 13.1 | 5.9 | 10.2 | 4.9 | 5.0 | 7.4 | 1.6 |
| Cycle Q Clear(g_c), s | 1.0 | 4.7 | 6.2 | 4.6 | 0.0 | 13.1 | 5.9 | 10.2 | 4.9 | 5.0 | 7.4 | 1.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.47 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 74 | 348 | 295 | 167 | 0 | 380 | 174 | 1778 | 552 | 171 | 1780 | 552 |
| V/C Ratio(X) | 0.32 | 0.37 | 0.48 | 0.65 | 0.00 | 0.81 | 0.79 | 0.48 | 0.25 | 0.70 | 0.37 | 0.09 |
| Avail Cap(c_a), veh/h | 313 | 560 | 475 | 355 | 0 | 525 | 336 | 2577 | 800 | 339 | 2597 | 806 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 36.5 | 27.9 | 28.5 | 34.4 | 0.0 | 29.2 | 34.7 | 20.1 | 18.4 | 34.5 | 19.4 | 17.4 |
| Incr Delay (d2), s/veh | 0.9 | 0.8 | 1.5 | 1.6 | 0.0 | 10.5 | 3.1 | 0.6 | 0.8 | 2.0 | 0.4 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.4 | 2.0 | 2.3 | 2.0 | 0.0 | 6.2 | 2.7 | 4.0 | 1.8 | 2.3 | 2.9 | 0.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 37.5 | 28.7 | 30.0 | 36.0 | 0.0 | 39.7 | 37.8 | 20.8 | 19.2 | 36.4 | 19.8 | 17.7 |
| LnGrp LOS | D | C | C | D | | D | D | C | B | D | B | B |
| Approach Vol, veh/h | | 292 | | | 417 | | | 1128 | | | 818 | |
| Approach Delay, s/veh | | 30.0 | | | 38.7 | | | 22.7 | | | 22.1 | |
| Approach LOS | | C | | | D | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.9 | 32.6 | 9.5 | 23.5 | 12.7 | 32.8 | 11.9 | 21.1 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 7.9 | 9.4 | 3.0 | 15.1 | 7.0 | 12.2 | 6.6 | 8.2 |
| Green Ext Time (p_c), s | 0.1 | 11.3 | 0.0 | 1.9 | 0.1 | 15.0 | 0.1 | 1.1 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 25.8 |
| HCM 7th LOS | C |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Benymer Project

## 2: Willow Avenue & Perrin Avenue

Existing Year WP_PM Peak Hour



| Movement | EBL | EBR | NBL | NBT | SBU | SBT | SBR |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Volume (veh/h) | 136 | 193 | 199 | 899 | 0 | 697 | 102 |
| Future Volume (veh/h) | 136 | 193 | 199 | 899 | 0 | 697 | 102 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | | 1856 | 1856 |
| Adj Flow Rate, veh/h | 143 | 203 | 209 | 946 | | 734 | 107 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | | 0.95 | 0.95 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | | 3 | 3 |
| Cap, veh/h | 352 | 313 | 476 | 3054 | | 1759 | 546 |
| Arrive On Green | 0.20 | 0.20 | 0.14 | 0.60 | | 0.35 | 0.35 |
| Sat Flow, veh/h | 1781 | 1585 | 3456 | 5274 | | 5233 | 1572 |
| Grp Volume(v), veh/h | 143 | 203 | 209 | 946 | | 734 | 107 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1585 | 1728 | 1702 | | 1689 | 1572 |
| Q Serve(g_s), s | 3.9 | 6.6 | 3.1 | 5.1 | | 6.2 | 2.7 |
| Cycle Q Clear(g_c), s | 3.9 | 6.6 | 3.1 | 5.1 | | 6.2 | 2.7 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | | 1.00 |
| Lane Grp Cap(c), veh/h | 352 | 313 | 476 | 3054 | | 1759 | 546 |
| V/C Ratio(X) | 0.41 | 0.65 | 0.44 | 0.31 | | 0.42 | 0.20 |
| Avail Cap(c_a), veh/h | 776 | 691 | 849 | 3054 | | 2661 | 826 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 19.5 | 20.6 | 22.1 | 5.5 | | 13.9 | 12.7 |
| Incr Delay (d2), s/veh | 2.1 | 6.1 | 0.2 | 0.2 | | 0.5 | 0.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.6 | 2.6 | 1.2 | 1.4 | | 2.2 | 0.9 |
| Unsig. Movement Delay, s/veh | | | | | | | |
| LnGrp Delay(d), s/veh | 21.6 | 26.7 | 22.3 | 5.7 | | 14.4 | 13.3 |
| LnGrp LOS | C | C | C | A | | B | B |
| Approach Vol, veh/h | 346 | | | 1155 | | 841 | |
| Approach Delay, s/veh | 24.6 | | | 8.7 | | 14.3 | |
| Approach LOS | C | | | A | | B | |

| Timer - Assigned Phs | 1 | 2 | | | 6 | 8 |
|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 14.0 | 25.1 | | | 39.1 | 16.7 |
| Change Period (Y+Rc), s | 6.3 | 5.7 | | | 5.7 | 5.7 |
| Max Green Setting (Gmax), s | 13.7 | 29.3 | | | 29.3 | 24.3 |
| Max Q Clear Time (g_c+I1), s | 15.1 | 8.2 | | | 7.1 | 8.6 |
| Green Ext Time (p_c), s | 0.2 | 11.2 | | | 13.4 | 2.5 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 13.1 |
| HCM 7th LOS | B |

**Notes**

User approved ignoring U-Turning movement.

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.9 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↰ | | | ↱ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 312 | 8 | 8 | 307 | 0 | 33 | 0 | 0 | 0 | 0 | 1 |
| Future Vol, veh/h | 1 | 312 | 8 | 8 | 307 | 0 | 33 | 0 | 0 | 0 | 0 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 332 | 9 | 9 | 327 | 0 | 35 | 0 | 0 | 0 | 0 | 1 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 327 | 0 | 0 | 340 | 0 | 0 | 682 | 682 | 336 | 678 | 686 | 327 |
| Stage 1 | - | - | - | - | - | - | 338 | 338 | - | 344 | 344 | - |
| Stage 2 | - | - | - | - | - | - | 344 | 344 | - | 334 | 343 | - |
| Critical Hdwy | 4.12 | - | - | 4.1 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.2 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 1233 | - | - | 1230 | - | - | 367 | 375 | 710 | 369 | 373 | 719 |
| Stage 1 | - | - | - | - | - | - | 680 | 644 | - | 676 | 641 | - |
| Stage 2 | - | - | - | - | - | - | 676 | 641 | - | 684 | 641 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1233 | - | - | 1230 | - | - | 363 | 371 | 710 | 366 | 369 | 719 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 363 | 371 | - | 366 | 369 | - |
| Stage 1 | - | - | - | - | - | - | 680 | 643 | - | 670 | 635 | - |
| Stage 2 | - | - | - | - | - | - | 669 | 635 | - | 683 | 641 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0.02 | 0.2 | 15.99 | 10.01 |
| HCM LOS | | | C | B |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 363 | 6 | - | - | 1230 | - | - | 719 |
| HCM Lane V/C Ratio | 0.097 | 0.001 | - | - | 0.007 | - | - | 0.001 |
| HCM Control Delay (s/veh) | 16 | 7.9 | 0 | - | 7.9 | - | - | 10 |
| HCM Lane LOS | C | A | A | - | A | - | - | B |
| HCM 95th %tile Q(veh) | 0.3 | 0 | - | - | 0 | - | - | 0 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 91.1 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 5 | 197 | 82 | 15 | 233 | 179 | 127 | 259 | 30 | 187 | 168 | 7 |
| Future Vol, veh/h | 5 | 197 | 82 | 15 | 233 | 179 | 127 | 259 | 30 | 187 | 168 | 7 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 5 | 212 | 88 | 16 | 251 | 192 | 137 | 278 | 32 | 201 | 181 | 8 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 43.6 | 110.7 | 114.8 | 78.1 |
| HCM LOS | E | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 31% | 2% | 4% | 52% |
| Vol Thru, % | 62% | 69% | 55% | 46% |
| Vol Right, % | 7% | 29% | 42% | 2% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 416 | 284 | 427 | 362 |
| LT Vol | 127 | 5 | 15 | 187 |
| Through Vol | 259 | 197 | 233 | 168 |
| RT Vol | 30 | 82 | 179 | 7 |
| Lane Flow Rate | 447 | 305 | 459 | 389 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 1.122 | 0.797 | 1.114 | 0.992 |
| Departure Headway (Hd) | 9.582 | 10.273 | 9.267 | 10.005 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 380 | 354 | 395 | 366 |
| Service Time | 7.582 | 8.273 | 7.267 | 8.005 |
| HCM Lane V/C Ratio | 1.176 | 0.862 | 1.162 | 1.063 |
| HCM Control Delay, s/veh | 114.8 | 43.6 | 110.7 | 78.1 |
| HCM Lane LOS | F | E | F | F |
| HCM 95th-tile Q | 15.8 | 6.7 | 15.8 | 11.4 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.3 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 0 | 0 | 2 | 9 | 0 | 2 | 0 | 404 | 2 | 0 | 289 | 1 |
| Future Vol, veh/h | 0 | 0 | 2 | 9 | 0 | 2 | 0 | 404 | 2 | 0 | 289 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 92 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 0 | 0 | 2 | 9 | 0 | 2 | 0 | 439 | 2 | 0 | 304 | 1 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 744 | 746 | 305 | 744 | 745 | 440 | 305 | 0 | 0 | 441 | 0 | 0 |
| Stage 1 | 305 | 305 | - | 440 | 440 | - | - | - | - | - | - | - |
| Stage 2 | 439 | 441 | - | 304 | 305 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 331 | 342 | 735 | 330 | 342 | 617 | 1256 | - | - | 1113 | - | - |
| Stage 1 | 705 | 662 | - | 596 | 577 | - | - | - | - | - | - | - |
| Stage 2 | 597 | 577 | - | 705 | 662 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 330 | 342 | 735 | 329 | 342 | 617 | 1256 | - | - | 1113 | - | - |
| Mov Cap-2 Maneuver | 330 | 342 | - | 329 | 342 | - | - | - | - | - | - | - |
| Stage 1 | 705 | 662 | - | 596 | 577 | - | - | - | - | - | - | - |
| Stage 2 | 595 | 577 | - | 703 | 662 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 9.91 | 15.33 | 0 | 0 |
| HCM LOS | A | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 1256 | - | - | 735 | 360 | 1113 | - | - |
| HCM Lane V/C Ratio | - | - | - | 0.003 | 0.032 | - | - | - |
| HCM Control Delay (s/veh) | 0 | - | - | 9.9 | 15.3 | 0 | - | - |
| HCM Lane LOS | A | - | - | A | C | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | 0.1 | 0 | - | - |

# HCM 7th Signalized Intersection Summary
## 6: Minnewawa Avenue & Shepherd Avenue



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 44 | 295 | 111 | 6 | 240 | 123 | 129 | 236 | 24 | 68 | 188 | 36 |
| Future Volume (veh/h) | 44 | 295 | 111 | 6 | 240 | 123 | 129 | 236 | 24 | 68 | 188 | 36 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 46 | 311 | 117 | 6 | 253 | 129 | 136 | 248 | 25 | 72 | 198 | 38 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 181 | 1050 | 469 | 32 | 396 | 336 | 305 | 386 | 327 | 233 | 310 | 262 |
| Arrive On Green | 0.10 | 0.29 | 0.29 | 0.02 | 0.21 | 0.21 | 0.17 | 0.21 | 0.21 | 0.13 | 0.17 | 0.17 |
| Sat Flow, veh/h | 1810 | 3610 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 46 | 311 | 117 | 6 | 253 | 129 | 136 | 248 | 25 | 72 | 198 | 38 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1805 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 1.3 | 3.8 | 3.1 | 0.2 | 6.9 | 3.9 | 3.9 | 6.9 | 0.7 | 2.1 | 5.6 | 1.2 |
| Cycle Q Clear(g_c), s | 1.3 | 3.8 | 3.1 | 0.2 | 6.9 | 3.9 | 3.9 | 6.9 | 0.7 | 2.1 | 5.6 | 1.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 181 | 1050 | 469 | 32 | 396 | 336 | 305 | 386 | 327 | 233 | 310 | 262 |
| V/C Ratio(X) | 0.25 | 0.30 | 0.25 | 0.19 | 0.64 | 0.38 | 0.45 | 0.64 | 0.08 | 0.31 | 0.64 | 0.14 |
| Avail Cap(c_a), veh/h | 671 | 2168 | 967 | 671 | 1141 | 967 | 661 | 1123 | 952 | 656 | 1114 | 944 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 23.5 | 15.6 | 15.3 | 27.4 | 20.5 | 19.3 | 21.0 | 20.5 | 18.1 | 22.2 | 22.0 | 20.1 |
| Incr Delay (d2), s/veh | 0.3 | 0.2 | 0.4 | 1.1 | 2.8 | 1.2 | 0.4 | 1.9 | 0.1 | 0.3 | 3.1 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.5 | 1.3 | 1.0 | 0.1 | 2.8 | 1.3 | 1.4 | 2.8 | 0.2 | 0.8 | 2.5 | 0.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 23.8 | 15.8 | 15.8 | 28.5 | 23.3 | 20.5 | 21.4 | 22.5 | 18.2 | 22.5 | 25.1 | 20.5 |
| LnGrp LOS | C | B | B | C | C | C | C | C | B | C | C | C |
| Approach Vol, veh/h | | 474 | | | 388 | | | 409 | | | 308 | |
| Approach Delay, s/veh | | 16.6 | | | 22.4 | | | 21.9 | | | 23.9 | |
| Approach LOS | | B | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.7 | 15.4 | 9.7 | 17.8 | 11.5 | 17.7 | 5.0 | 22.5 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 5.9 | 7.6 | 3.3 | 8.9 | 4.1 | 8.9 | 2.2 | 5.8 |
| Green Ext Time (p_c), s | 0.1 | 1.8 | 0.0 | 2.9 | 0.1 | 1.4 | 0.0 | 3.4 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 20.8 |
| HCM 7th LOS | C |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 33 | 0 | 0 | 16 | 0 |
| Future Vol, veh/h | 0 | 33 | 0 | 0 | 16 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 36 | 0 | 0 | 17 | 0 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 35 | 0 | 0 | 0 | 0 | 0 |
| Stage 1 | 0 | - | - | - | - | - |
| Stage 2 | 35 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 978 | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | 988 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 978 | - | - | - | - | - |
| Mov Cap-2 Maneuver | 978 | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | 988 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | | 0 | |
| HCM LOS | - | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | - | - |
| HCM Lane V/C Ratio | - | - | - | - | - |
| HCM Control Delay (s/veh) | - | - | - | - | - |
| HCM Lane LOS | - | - | - | - | - |
| HCM 95th %tile Q(veh) | - | - | - | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.2 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 292 | 16 | 0 | 310 | 0 | 14 |
| Future Vol, veh/h | 292 | 16 | 0 | 310 | 0 | 14 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 317 | 17 | 0 | 337 | 0 | 15 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 326 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 715 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 715 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.14 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 715 | - | - | - |
| HCM Lane V/C Ratio | 0.021 | - | - | - |
| HCM Control Delay (s/veh) | 10.1 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.1 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 275 | 31 | 71 | 310 | 0 | 19 |
| Future Vol, veh/h | 275 | 31 | 71 | 310 | 0 | 19 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 299 | 34 | 77 | 337 | 0 | 21 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 333 | 0 | - | 316 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | 4.12 | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | 2.218 | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1227 | - | 0 | 725 |
| Stage 1 | - | - | - | - | 0 | - |
| Stage 2 | - | - | - | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 1227 | - | - | 725 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 1.52 | 10.11 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 725 | - | - | 1227 | - |
| HCM Lane V/C Ratio | 0.028 | - | - | 0.063 | - |
| HCM Control Delay (s/veh) | 10.1 | - | - | 8.1 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.2 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.4 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 270 | 24 | 0 | 381 | 0 | 28 |
| Future Vol, veh/h | 270 | 24 | 0 | 381 | 0 | 28 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 293 | 26 | 0 | 414 | 0 | 30 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 307 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 733 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 733 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.12 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 733 | - | - | - |
| HCM Lane V/C Ratio | 0.041 | - | - | - |
| HCM Control Delay (s/veh) | 10.1 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Near Term WP_AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 81 | 155 | 221 | 213 | 179 | 187 | 149 | 729 | 117 | 90 | 682 | 55 |
| Future Volume (veh/h) | 81 | 155 | 221 | 213 | 179 | 187 | 149 | 729 | 117 | 90 | 682 | 55 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 84 | 160 | 228 | 220 | 185 | 193 | 154 | 752 | 121 | 93 | 703 | 57 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 144 | 383 | 325 | 258 | 210 | 219 | 190 | 1544 | 479 | 149 | 1419 | 441 |
| Arrive On Green | 0.08 | 0.21 | 0.21 | 0.14 | 0.25 | 0.25 | 0.11 | 0.30 | 0.30 | 0.08 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1767 | 1856 | 1572 | 1781 | 838 | 875 | 1781 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 84 | 160 | 228 | 220 | 0 | 378 | 154 | 752 | 121 | 93 | 703 | 57 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1856 | 1572 | 1781 | 0 | 1713 | 1781 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 3.9 | 6.3 | 11.3 | 10.2 | 0.0 | 17.9 | 7.1 | 10.1 | 4.9 | 4.3 | 9.8 | 2.3 |
| Cycle Q Clear(g_c), s | 3.9 | 6.3 | 11.3 | 10.2 | 0.0 | 17.9 | 7.1 | 10.1 | 4.9 | 4.3 | 9.8 | 2.3 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.51 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 144 | 383 | 325 | 258 | 0 | 429 | 190 | 1544 | 479 | 149 | 1419 | 441 |
| V/C Ratio(X) | 0.58 | 0.42 | 0.70 | 0.85 | 0.00 | 0.88 | 0.81 | 0.49 | 0.25 | 0.63 | 0.50 | 0.13 |
| Avail Cap(c_a), veh/h | 289 | 518 | 439 | 326 | 0 | 478 | 311 | 2382 | 739 | 308 | 2363 | 734 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 37.3 | 29.0 | 31.0 | 35.2 | 0.0 | 30.4 | 36.8 | 24.0 | 22.2 | 37.3 | 25.3 | 22.6 |
| Incr Delay (d2), s/veh | 1.4 | 0.9 | 3.7 | 13.7 | 0.0 | 18.2 | 3.2 | 0.8 | 0.9 | 1.6 | 0.9 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.7 | 2.8 | 4.4 | 5.2 | 0.0 | 9.1 | 3.2 | 4.1 | 1.8 | 1.9 | 3.9 | 0.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 38.7 | 29.9 | 34.7 | 48.8 | 0.0 | 48.6 | 40.0 | 24.8 | 23.1 | 38.9 | 26.2 | 23.1 |
| LnGrp LOS | D | C | C | D | | D | D | C | C | D | C | C |
| Approach Vol, veh/h | | 472 | | | 598 | | | 1027 | | | 853 | |
| Approach Delay, s/veh | | 33.8 | | | 48.7 | | | 26.9 | | | 27.4 | |
| Approach LOS | | C | | | D | | | C | | | C | |

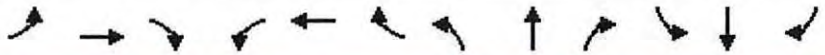
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 14.3 | 29.3 | 13.1 | 27.6 | 12.4 | 31.2 | 16.8 | 23.9 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 9.1 | 11.8 | 5.9 | 19.9 | 6.3 | 12.1 | 12.2 | 13.3 |
| Green Ext Time (p_c), s | 0.1 | 11.8 | 0.0 | 1.2 | 0.1 | 13.2 | 0.1 | 1.4 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 32.6 |
| HCM 7th LOS | C |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Benjamin Project

## 2: Willow Avenue & Perrin Avenue

Near Term WP_AM Peak Hour



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 208 | 70 | 191 | 104 | 95 | 31 | 121 | 772 | 79 | 23 | 928 | 201 |
| Future Volume (veh/h) | 208 | 70 | 191 | 104 | 95 | 31 | 121 | 772 | 79 | 23 | 928 | 201 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 214 | 72 | 197 | 107 | 98 | 32 | 125 | 796 | 81 | 24 | 957 | 207 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 277 | 310 | 262 | 163 | 190 | 161 | 321 | 2200 | 683 | 73 | 1858 | 577 |
| Arrive On Green | 0.16 | 0.17 | 0.17 | 0.09 | 0.10 | 0.10 | 0.09 | 0.43 | 0.43 | 0.04 | 0.37 | 0.37 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1810 | 1900 | 1610 | 3456 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 214 | 72 | 197 | 107 | 98 | 32 | 125 | 796 | 81 | 24 | 957 | 207 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1810 | 1900 | 1610 | 1728 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 9.3 | 2.7 | 9.6 | 4.6 | 4.0 | 1.5 | 2.8 | 8.5 | 2.5 | 1.1 | 11.9 | 7.8 |
| Cycle Q Clear(g_c), s | 9.3 | 2.7 | 9.6 | 4.6 | 4.0 | 1.5 | 2.8 | 8.5 | 2.5 | 1.1 | 11.9 | 7.8 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 277 | 310 | 262 | 163 | 190 | 161 | 321 | 2200 | 683 | 73 | 1858 | 577 |
| V/C Ratio(X) | 0.77 | 0.23 | 0.75 | 0.66 | 0.52 | 0.20 | 0.39 | 0.36 | 0.12 | 0.33 | 0.52 | 0.36 |
| Avail Cap(c_a), veh/h | 589 | 555 | 471 | 493 | 454 | 385 | 372 | 2464 | 765 | 175 | 2338 | 726 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 32.7 | 29.3 | 32.1 | 35.6 | 34.5 | 33.4 | 34.5 | 15.5 | 13.8 | 37.7 | 20.0 | 18.7 |
| Incr Delay (d2), s/veh | 11.7 | 1.0 | 11.2 | 11.7 | 5.9 | 1.7 | 0.3 | 0.3 | 0.3 | 1.0 | 0.8 | 1.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 4.7 | 1.2 | 4.3 | 2.5 | 2.1 | 0.6 | 1.1 | 3.2 | 0.9 | 0.5 | 4.6 | 2.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 44.5 | 30.3 | 43.3 | 47.3 | 40.4 | 35.1 | 34.8 | 15.8 | 14.1 | 38.6 | 20.7 | 20.0 |
| LnGrp LOS | D | C | D | D | D | D | C | B | B | D | C | B |
| Approach Vol, veh/h | | 483 | | | 237 | | | 1002 | | | 1188 | |
| Approach Delay, s/veh | | 41.9 | | | 42.8 | | | 18.1 | | | 21.0 | |
| Approach LOS | | D | | | D | | | B | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 8.6 | 40.5 | 17.9 | 13.8 | 13.8 | 35.3 | 12.6 | 19.1 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 5.3 | 5.7 | 6.3 | 5.7 | 5.3 | 5.7 |
| Max Green Setting (Gmax), s | 3.3 | 39.0 | 26.7 | 19.3 | 8.7 | 37.3 | 22.0 | 24.0 |
| Max Q Clear Time (g_c+I1), s | 13.1 | 10.5 | 11.3 | 6.0 | 4.8 | 13.9 | 6.6 | 11.6 |
| Green Ext Time (p_c), s | 0.0 | 14.1 | 1.4 | 0.9 | 0.1 | 15.7 | 0.6 | 1.8 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 25.2 |
| HCM 7th LOS | C |

| Intersection | |
|---|---|
| Int Delay, s/veh | 4.8 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 0 | 270 | 29 | 15 | 490 | 2 | 79 | 30 | 15 | 7 | 24 | 0 |
| Future Vol, veh/h | 0 | 270 | 29 | 15 | 490 | 2 | 79 | 30 | 15 | 7 | 24 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 293 | 32 | 16 | 533 | 2 | 86 | 33 | 16 | 8 | 26 | 0 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 535 | 0 | 0 | 325 | 0 | 0 | 888 | 877 | 309 | 876 | 891 | 534 |
| Stage 1 | - | - | - | - | - | - | 309 | 309 | - | 566 | 566 | - |
| Stage 2 | - | - | - | - | - | - | 578 | 567 | - | 310 | 325 | - |
| Critical Hdwy | 4.13 | - | - | 4.11 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.227 | - | - | 2.209 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 1028 | - | - | 1240 | - | - | 267 | 289 | 736 | 271 | 284 | 550 |
| Stage 1 | - | - | - | - | - | - | 705 | 663 | - | 512 | 510 | - |
| Stage 2 | - | - | - | - | - | - | 505 | 510 | - | 705 | 653 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1028 | - | - | 1240 | - | - | 238 | 284 | 736 | 231 | 278 | 550 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 238 | 284 | - | 231 | 278 | - |
| Stage 1 | - | - | - | - | - | - | 705 | 663 | - | 503 | 501 | - |
| Stage 2 | - | - | - | - | - | - | 470 | 500 | - | 655 | 653 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0.23 | 30.85 | 20.48 |
| HCM LOS | | | D | C |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 270 | 1028 | - | - | 53 | - | - | 266 |
| HCM Lane V/C Ratio | 0.498 | - | - | - | 0.013 | - | - | 0.127 |
| HCM Control Delay (s/veh) | 30.8 | 0 | - | - | 7.9 | 0 | - | 20.5 |
| HCM Lane LOS | D | A | - | - | A | A | - | C |
| HCM 95th %tile Q(veh) | 2.6 | 0 | - | - | 0 | - | - | 0.4 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 170.6 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 9 | 184 | 149 | 25 | 280 | 258 | 121 | 275 | 19 | 188 | 282 | 7 |
| Future Vol, veh/h | 9 | 184 | 149 | 25 | 280 | 258 | 121 | 275 | 19 | 188 | 282 | 7 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 9 | 190 | 154 | 26 | 289 | 266 | 125 | 284 | 20 | 194 | 291 | 7 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 69 | 253.4 | 124.6 | 185.9 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 29% | 3% | 4% | 39% |
| Vol Thru, % | 66% | 54% | 50% | 59% |
| Vol Right, % | 5% | 44% | 46% | 1% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 415 | 342 | 563 | 477 |
| LT Vol | 121 | 9 | 25 | 188 |
| Through Vol | 275 | 184 | 280 | 282 |
| RT Vol | 19 | 149 | 258 | 7 |
| Lane Flow Rate | 428 | 353 | 580 | 492 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 1.123 | 0.912 | 1.47 | 1.296 |
| Departure Headway (Hd) | 11.817 | 12.24 | 10.366 | 11.312 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 312 | 300 | 354 | 325 |
| Service Time | 9.817 | 10.24 | 8.366 | 9.312 |
| HCM Lane V/C Ratio | 1.372 | 1.177 | 1.638 | 1.514 |
| HCM Control Delay, s/veh | 124.6 | 69 | 253.4 | 185.9 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 13.9 | 8.5 | 27.4 | 19.6 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 29.9 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 34 | 69 | 67 | 8 | 75 | 2 | 61 | 427 | 14 | 2 | 564 | 34 |
| Future Vol, veh/h | 34 | 69 | 67 | 8 | 75 | 2 | 61 | 427 | 14 | 2 | 564 | 34 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 37 | 75 | 73 | 9 | 82 | 2 | 66 | 464 | 15 | 2 | 613 | 37 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1273 | 1248 | 632 | 1259 | 1259 | 472 | 650 | 0 | 0 | 479 | 0 | 0 |
| Stage 1 | 636 | 636 | - | 604 | 604 | - | - | - | - | - | - | - |
| Stage 2 | 638 | 612 | - | 655 | 654 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 144 | 173 | 481 | 147 | 171 | 592 | 931 | - | - | 1078 | - | - |
| Stage 1 | 466 | 472 | - | 485 | 488 | - | - | - | - | - | - | - |
| Stage 2 | 465 | 484 | - | 455 | 463 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 64 | 156 | 481 | 61 | 154 | 592 | 931 | - | - | 1078 | - | - |
| Mov Cap-2 Maneuver | 64 | 156 | - | 61 | 154 | - | - | - | - | - | - | - |
| Stage 1 | 465 | 470 | - | 438 | 440 | - | - | - | - | - | - | - |
| Stage 2 | 341 | 437 | - | 324 | 461 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 98.42 | 73.92 | 1.11 | 0.03 |
| HCM LOS | F | F | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 217 | - | - | 153 | 137 | 6 | - | - |
| HCM Lane V/C Ratio | 0.071 | - | - | 1.21 | 0.676 | 0.002 | - | - |
| HCM Control Delay (s/veh) | 9.2 | 0 | - | 198.4 | 73.9 | 8.3 | 0 | - |
| HCM Lane LOS | A | A | - | F | F | A | A | - |
| HCM 95th %tile Q(veh) | 0.2 | - | - | 10.6 | 3.7 | 0 | - | - |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 103 | 401 | 265 | 43 | 339 | 220 | 200 | 318 | 36 | 217 | 570 | 143 |
| Future Volume (veh/h) | 103 | 401 | 265 | 43 | 339 | 220 | 200 | 318 | 36 | 217 | 570 | 143 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 112 | 436 | 288 | 47 | 368 | 239 | 217 | 346 | 39 | 236 | 620 | 155 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 179 | 932 | 415 | 138 | 448 | 380 | 249 | 584 | 495 | 268 | 604 | 512 |
| Arrive On Green | 0.10 | 0.26 | 0.26 | 0.08 | 0.24 | 0.24 | 0.14 | 0.31 | 0.31 | 0.15 | 0.33 | 0.33 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 112 | 436 | 288 | 47 | 368 | 239 | 217 | 346 | 39 | 236 | 620 | 155 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 6.4 | 10.9 | 17.2 | 2.6 | 19.6 | 14.2 | 12.6 | 16.4 | 1.8 | 13.7 | 34.0 | 7.7 |
| Cycle Q Clear(g_c), s | 6.4 | 10.9 | 17.2 | 2.6 | 19.6 | 14.2 | 12.6 | 16.4 | 1.8 | 13.7 | 34.0 | 7.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 179 | 932 | 415 | 138 | 448 | 380 | 249 | 584 | 495 | 268 | 604 | 512 |
| V/C Ratio(X) | 0.63 | 0.47 | 0.69 | 0.34 | 0.82 | 0.63 | 0.87 | 0.59 | 0.08 | 0.88 | 1.03 | 0.30 |
| Avail Cap(c_a), veh/h | 355 | 1147 | 512 | 355 | 604 | 512 | 355 | 604 | 512 | 355 | 604 | 512 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 45.1 | 32.3 | 34.6 | 45.6 | 37.5 | 35.5 | 44.0 | 30.2 | 25.2 | 43.4 | 35.2 | 26.4 |
| Incr Delay (d2), s/veh | 1.3 | 0.6 | 3.9 | 0.5 | 8.3 | 2.8 | 11.7 | 1.5 | 0.1 | 15.0 | 43.7 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.7 | 4.4 | 6.6 | 1.1 | 9.4 | 5.4 | 6.1 | 7.2 | 0.7 | 7.0 | 22.3 | 2.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 46.4 | 32.8 | 38.6 | 46.1 | 45.8 | 38.3 | 55.7 | 31.7 | 25.2 | 58.4 | 78.9 | 26.9 |
| LnGrp LOS | D | C | D | D | D | D | E | C | C | E | F | C |
| Approach Vol, veh/h | | 836 | | | 654 | | | 602 | | | 1011 | |
| Approach Delay, s/veh | | 36.6 | | | 43.1 | | | 39.9 | | | 66.2 | |
| Approach LOS | | D | | | D | | | D | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 18.7 | 40.0 | 14.6 | 31.2 | 19.8 | 38.9 | 12.2 | 33.6 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 14.6 | 36.0 | 8.4 | 21.6 | 15.7 | 18.4 | 4.6 | 19.2 |
| Green Ext Time (p_c), s | 0.2 | 0.0 | 0.1 | 3.6 | 0.2 | 1.9 | 0.0 | 4.6 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 48.3 |
| HCM 7th LOS | D |

| Intersection | |
|---|---|
| Int Delay, s/veh | 2.5 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 48 | 75 | 0 | 5 | 57 |
| Future Vol, veh/h | 0 | 48 | 75 | 0 | 5 | 57 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 52 | 82 | 0 | 5 | 62 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 154 | 82 | 0 | 0 | 82 | 0 |
| Stage 1 | 82 | - | - | - | - | - |
| Stage 2 | 73 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 837 | 978 | - | - | 1516 | - |
| Stage 1 | 942 | - | - | - | - | - |
| Stage 2 | 950 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 834 | 978 | - | - | 1516 | - |
| Mov Cap-2 Maneuver | 834 | - | - | - | - | - |
| Stage 1 | 942 | - | - | - | - | - |
| Stage 2 | 947 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | 8.89 | 0 | 0.6 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 978 | 145 | - |
| HCM Lane V/C Ratio | - | - | 0.053 | 0.004 | - |
| HCM Control Delay (s/veh) | - | - | 8.9 | 7.4 | 0 |
| HCM Lane LOS | - | - | A | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.2 | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.3 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | | ↑ | | ↱ |
| Traffic Vol, veh/h | 276 | 5 | 0 | 349 | 0 | 21 |
| Future Vol, veh/h | 276 | 5 | 0 | 349 | 0 | 21 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 300 | 5 | 0 | 379 | 0 | 23 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 303 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 737 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 737 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.04 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 737 | - | - | - |
| HCM Lane V/C Ratio | 0.031 | - | - | - |
| HCM Control Delay (s/veh) | 10 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.7 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | ↰ | ↑ | | ↱ |
| Traffic Vol, veh/h | 287 | 10 | 22 | 349 | 0 | 28 |
| Future Vol, veh/h | 287 | 10 | 22 | 349 | 0 | 28 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 312 | 11 | 24 | 379 | 0 | 30 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 323 | 0 | - | 317 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | 4.12 | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | 2.218 | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1237 | - | 0 | 723 |
| Stage 1 | - | - | - | - | 0 | - |
| Stage 2 | - | - | - | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 1237 | - | - | 723 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0.47 | 10.2 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 723 | - | - | 1237 | - |
| HCM Lane V/C Ratio | 0.042 | - | - | 0.019 | - |
| HCM Control Delay (s/veh) | 10.2 | - | - | 8 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.1 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.6 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | | ↑ | | ↱ |
| Traffic Vol, veh/h | 307 | 7 | 0 | 371 | 0 | 41 |
| Future Vol, veh/h | 307 | 7 | 0 | 371 | 0 | 41 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 334 | 8 | 0 | 403 | 0 | 45 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 337 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 705 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 705 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.45 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 705 | - | - | - |
| HCM Lane V/C Ratio | 0.063 | - | - | - |
| HCM Control Delay (s/veh) | 10.5 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.2 | - | - | - |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Near Term WP_PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 21 | 150 | 180 | 217 | 175 | 159 | 174 | 786 | 269 | 141 | 604 | 40 |
| Future Volume (veh/h) | 21 | 150 | 180 | 217 | 175 | 159 | 174 | 786 | 269 | 141 | 604 | 40 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 23 | 163 | 196 | 236 | 190 | 173 | 189 | 854 | 292 | 153 | 657 | 43 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 69 | 293 | 248 | 272 | 229 | 208 | 225 | 1759 | 546 | 188 | 1662 | 516 |
| Arrive On Green | 0.04 | 0.16 | 0.16 | 0.15 | 0.25 | 0.25 | 0.13 | 0.34 | 0.34 | 0.10 | 0.32 | 0.32 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1810 | 916 | 834 | 1795 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 23 | 163 | 196 | 236 | 0 | 363 | 189 | 854 | 292 | 153 | 657 | 43 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1810 | 0 | 1750 | 1795 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 1.1 | 7.2 | 10.6 | 11.4 | 0.0 | 17.5 | 9.2 | 11.7 | 13.1 | 7.4 | 8.8 | 1.7 |
| Cycle Q Clear(g_c), s | 1.1 | 7.2 | 10.6 | 11.4 | 0.0 | 17.5 | 9.2 | 11.7 | 13.1 | 7.4 | 8.8 | 1.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.48 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 69 | 293 | 248 | 272 | 0 | 437 | 225 | 1759 | 546 | 188 | 1662 | 516 |
| V/C Ratio(X) | 0.33 | 0.56 | 0.79 | 0.87 | 0.00 | 0.83 | 0.84 | 0.49 | 0.53 | 0.81 | 0.40 | 0.08 |
| Avail Cap(c_a), veh/h | 275 | 492 | 417 | 312 | 0 | 461 | 296 | 2266 | 703 | 298 | 2284 | 709 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 41.8 | 34.8 | 36.2 | 37.1 | 0.0 | 31.7 | 38.2 | 23.2 | 23.7 | 39.2 | 23.6 | 21.2 |
| Incr Delay (d2), s/veh | 1.0 | 2.0 | 6.6 | 18.3 | 0.0 | 13.4 | 12.2 | 0.7 | 2.6 | 4.2 | 0.5 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.5 | 3.3 | 4.4 | 6.2 | 0.0 | 8.6 | 4.7 | 4.7 | 5.0 | 3.4 | 3.6 | 0.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 42.8 | 36.8 | 42.9 | 55.4 | 0.0 | 45.0 | 50.3 | 23.9 | 26.3 | 43.4 | 24.1 | 21.4 |
| LnGrp LOS | D | D | D | E | | D | D | C | C | D | C | C |
| Approach Vol, veh/h | | 382 | | | 599 | | | 1335 | | | 853 | |
| Approach Delay, s/veh | | 40.3 | | | 49.1 | | | 28.1 | | | 27.4 | |
| Approach LOS | | D | | | D | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 16.5 | 34.3 | 9.7 | 28.8 | 14.6 | 36.2 | 18.0 | 20.5 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 14.7 | 39.3 | 13.8 | 23.5 | 14.7 | 39.3 | 15.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 11.2 | 10.8 | 3.1 | 19.5 | 9.4 | 15.1 | 13.4 | 12.6 |
| Green Ext Time (p_c), s | 0.1 | 11.1 | 0.0 | 1.3 | 0.1 | 15.4 | 0.1 | 1.4 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 33.4 |
| HCM 7th LOS | C |

HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project
2: Willow Avenue & Perrin Avenue Near Term WP_PM Peak Hour



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 222 | 124 | 244 | 145 | 115 | 55 | 238 | 1039 | 152 | 56 | 786 | 184 |
| Future Volume (veh/h) | 222 | 124 | 244 | 145 | 115 | 55 | 238 | 1039 | 152 | 56 | 786 | 184 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 234 | 131 | 257 | 153 | 121 | 58 | 251 | 1094 | 160 | 59 | 827 | 194 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 172 | 394 | 334 | 172 | 394 | 334 | 332 | 1542 | 479 | 99 | 1346 | 418 |
| Arrive On Green | 0.10 | 0.21 | 0.21 | 0.10 | 0.21 | 0.21 | 0.10 | 0.30 | 0.30 | 0.05 | 0.26 | 0.26 |
| Sat Flow, veh/h | 1810 | 1900 | 1610 | 1810 | 1900 | 1610 | 3483 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 234 | 131 | 257 | 153 | 121 | 58 | 251 | 1094 | 160 | 59 | 827 | 194 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1900 | 1610 | 1810 | 1900 | 1610 | 1742 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 5.0 | 3.1 | 7.9 | 4.4 | 2.8 | 1.6 | 3.7 | 9.9 | 4.1 | 1.7 | 7.4 | 5.3 |
| Cycle Q Clear(g_c), s | 5.0 | 3.1 | 7.9 | 4.4 | 2.8 | 1.6 | 3.7 | 9.9 | 4.1 | 1.7 | 7.4 | 5.3 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 172 | 394 | 334 | 172 | 394 | 334 | 332 | 1542 | 479 | 99 | 1346 | 418 |
| V/C Ratio(X) | 1.36 | 0.33 | 0.77 | 0.89 | 0.31 | 0.17 | 0.76 | 0.71 | 0.33 | 0.59 | 0.61 | 0.46 |
| Avail Cap(c_a), veh/h | 172 | 651 | 552 | 172 | 651 | 552 | 332 | 1764 | 548 | 172 | 1778 | 552 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 23.8 | 17.7 | 19.6 | 23.5 | 17.6 | 17.1 | 23.2 | 16.4 | 14.3 | 24.2 | 17.1 | 16.4 |
| Incr Delay (d2), s/veh | 194.0 | 0.5 | 3.8 | 38.6 | 0.4 | 0.2 | 9.6 | 1.1 | 0.4 | 5.5 | 0.5 | 0.8 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 11.2 | 1.2 | 3.0 | 3.6 | 1.2 | 0.5 | 1.8 | 3.6 | 1.4 | 0.8 | 2.7 | 1.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 217.7 | 18.2 | 23.4 | 62.1 | 18.1 | 17.4 | 32.8 | 17.5 | 14.7 | 29.8 | 17.6 | 17.2 |
| LnGrp LOS | F | B | C | E | B | B | C | B | B | C | B | B |
| Approach Vol, veh/h | | 622 | | | 332 | | | 1505 | | | 1080 | |
| Approach Delay, s/veh | | 95.4 | | | 38.2 | | | 19.7 | | | 18.2 | |
| Approach LOS | | F | | | D | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 7.4 | 20.2 | 9.5 | 15.4 | 9.5 | 18.1 | 9.5 | 15.4 |
| Change Period (Y+Rc), s | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| Max Green Setting (Gmax), s | 5.0 | 18.0 | 5.0 | 18.0 | 5.0 | 18.0 | 5.0 | 18.0 |
| Max Q Clear Time (g_c+I1), s | 13.7 | 11.9 | 6.4 | 9.9 | 5.7 | 9.4 | 7.0 | 4.8 |
| Green Ext Time (p_c), s | 0.0 | 3.8 | 0.0 | 1.0 | 0.0 | 4.1 | 0.0 | 0.6 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 34.3 |
| HCM 7th LOS | C |

| Intersection | |
|---|---|
| Int Delay, s/veh | 6.6 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 422 | 49 | 27 | 379 | 7 | 76 | 39 | 20 | 2 | 39 | 1 |
| Future Vol, veh/h | 1 | 422 | 49 | 27 | 379 | 7 | 76 | 39 | 20 | 2 | 39 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 449 | 52 | 29 | 403 | 7 | 81 | 41 | 21 | 2 | 41 | 1 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 411 | 0 | 0 | 501 | 0 | 0 | 959 | 945 | 475 | 936 | 968 | 407 |
| Stage 1 | - | - | - | - | - | - | 477 | 477 | - | 464 | 464 | - |
| Stage 2 | - | - | - | - | - | - | 481 | 468 | - | 472 | 503 | - |
| Critical Hdwy | 4.12 | - | - | 4.1 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.2 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 1148 | - | - | 1074 | - | - | 239 | 264 | 594 | 247 | 256 | 649 |
| Stage 1 | - | - | - | - | - | - | 573 | 559 | - | 582 | 567 | - |
| Stage 2 | - | - | - | - | - | - | 570 | 565 | - | 577 | 545 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1148 | - | - | 1074 | - | - | 192 | 254 | 594 | 193 | 247 | 649 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 192 | 254 | - | 193 | 247 | - |
| Stage 1 | - | - | - | - | - | - | 572 | 559 | - | 562 | 547 | - |
| Stage 2 | - | - | - | - | - | - | 507 | 545 | - | 514 | 544 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0.02 | 0.55 | 42.86 | 22.75 |
| HCM LOS | | | E | C |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 232 | 4 | - | - | 117 | - | - | 247 |
| HCM Lane V/C Ratio | 0.619 | 0.001 | - | - | 0.027 | - | - | 0.181 |
| HCM Control Delay (s/veh) | 42.9 | 8.1 | 0 | - | 8.4 | 0 | - | 22.7 |
| HCM Lane LOS | E | A | A | - | A | A | - | C |
| HCM 95th %tile Q(veh) | 3.7 | 0 | - | - | 0.1 | - | - | 0.6 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 214.6 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 6 | 257 | 122 | 15 | 287 | 187 | 172 | 351 | 31 | 194 | 223 | 8 |
| Future Vol, veh/h | 6 | 257 | 122 | 15 | 287 | 187 | 172 | 351 | 31 | 194 | 223 | 8 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 6 | 276 | 131 | 16 | 309 | 201 | 185 | 377 | 33 | 209 | 240 | 9 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 118.7 | 218.1 | 312.6 | 169.5 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 31% | 2% | 3% | 46% |
| Vol Thru, % | 63% | 67% | 59% | 52% |
| Vol Right, % | 6% | 32% | 38% | 2% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 554 | 385 | 489 | 425 |
| LT Vol | 172 | 6 | 15 | 194 |
| Through Vol | 351 | 257 | 287 | 223 |
| RT Vol | 31 | 122 | 187 | 8 |
| Lane Flow Rate | 596 | 414 | 526 | 457 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 1.598 | 1.086 | 1.369 | 1.235 |
| Departure Headway (Hd) | 11.858 | 13.342 | 12.149 | 13.137 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 310 | 277 | 305 | 279 |
| Service Time | 9.858 | 11.342 | 10.149 | 11.137 |
| HCM Lane V/C Ratio | 1.923 | 1.495 | 1.725 | 1.638 |
| HCM Control Delay, s/veh | 312.6 | 118.7 | 218.1 | 169.5 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 29 | 12 | 20.9 | 16 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 146 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 38 | 98 | 91 | 15 | 96 | 2 | 88 | 616 | 8 | 1 | 436 | 38 |
| Future Vol, veh/h | 38 | 98 | 91 | 15 | 96 | 2 | 88 | 616 | 8 | 1 | 436 | 38 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 92 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow | 40 | 103 | 96 | 16 | 101 | 2 | 93 | 648 | 8 | 1 | 474 | 40 |

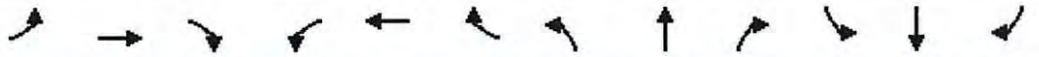
| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1380 | 1338 | 494 | 1365 | 1354 | 653 | 514 | 0 | 0 | 657 | 0 | 0 |
| Stage 1 | 496 | 496 | - | 838 | 838 | - | - | - | - | - | - | - |
| Stage 2 | 884 | 842 | - | 528 | 516 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 122 | 153 | 575 | 124 | 150 | 468 | 1052 | - | - | 926 | - | - |
| Stage 1 | 556 | 545 | - | 361 | 382 | - | - | - | - | - | - | - |
| Stage 2 | 340 | 380 | - | 534 | 534 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | ~ 25 | 131 | 575 | 22 | 129 | 468 | 1052 | - | - | 926 | - | - |
| Mov Cap-2 Maneuver | ~ 25 | 131 | - | 22 | 129 | - | - | - | - | - | - | - |
| Stage 1 | 555 | 544 | - | 311 | 329 | - | - | - | - | - | - | - |
| Stage 2 | 202 | 327 | - | 360 | 533 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, $/ | $ 797.82 | $ 381.32 | 1.08 | 0.02 |
| HCM LOS | F | F | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 222 | - | - | 94 | 78 | 4 | - | - |
| HCM Lane V/C Ratio | 0.088 | - | - | 2.547 | 1.522 | 0.001 | - | - |
| HCM Control Delay (s/veh) | 8.8 | 0 | - | $ 797.8 | $ 381.3 | 8.9 | 0 | - |
| HCM Lane LOS | A | A | - | F | F | A | A | - |
| HCM 95th %tile Q(veh) | 0.3 | - | - | 22.2 | 9.7 | 0 | - | - |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

HCM 7th Signalized Intersection Summary De Young Properties Peach and Benymer Project
6: Minnewawa Avenue & Shepherd Avenue Near Term WP_PM Peak Hour



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 189 | 387 | 259 | 31 | 319 | 240 | 281 | 643 | 52 | 159 | 475 | 152 |
| Future Volume (veh/h) | 189 | 387 | 259 | 31 | 319 | 240 | 281 | 643 | 52 | 159 | 475 | 152 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 199 | 407 | 273 | 33 | 336 | 253 | 296 | 677 | 55 | 167 | 500 | 160 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 230 | 1018 | 454 | 115 | 415 | 352 | 324 | 678 | 574 | 197 | 542 | 460 |
| Arrive On Green | 0.13 | 0.28 | 0.28 | 0.06 | 0.22 | 0.22 | 0.18 | 0.36 | 0.36 | 0.11 | 0.29 | 0.29 |
| Sat Flow, veh/h | 1810 | 3610 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 199 | 407 | 273 | 33 | 336 | 253 | 296 | 677 | 55 | 167 | 500 | 160 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1805 | 1610 | 1810 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 11.9 | 10.1 | 16.2 | 1.9 | 18.6 | 16.1 | 18.0 | 40.0 | 2.5 | 10.3 | 28.9 | 8.9 |
| Cycle Q Clear(g_c), s | 11.9 | 10.1 | 16.2 | 1.9 | 18.6 | 16.1 | 18.0 | 40.0 | 2.5 | 10.3 | 28.9 | 8.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 230 | 1018 | 454 | 115 | 415 | 352 | 324 | 678 | 574 | 197 | 542 | 460 |
| V/C Ratio(X) | 0.87 | 0.40 | 0.60 | 0.29 | 0.81 | 0.72 | 0.91 | 1.00 | 0.10 | 0.85 | 0.92 | 0.35 |
| Avail Cap(c_a), veh/h | 343 | 1109 | 495 | 343 | 584 | 495 | 338 | 678 | 574 | 335 | 570 | 483 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 47.4 | 32.1 | 34.3 | 49.4 | 41.1 | 40.1 | 44.4 | 35.3 | 23.3 | 48.2 | 37.9 | 30.9 |
| Incr Delay (d2), s/veh | 9.9 | 0.4 | 2.4 | 0.5 | 7.7 | 4.7 | 27.1 | 34.2 | 0.1 | 3.9 | 20.5 | 0.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 5.8 | 4.2 | 6.3 | 0.9 | 9.1 | 6.5 | 10.1 | 23.5 | 0.9 | 4.7 | 16.0 | 3.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 57.3 | 32.5 | 36.7 | 50.0 | 48.7 | 44.8 | 71.5 | 69.5 | 23.4 | 52.1 | 58.5 | 31.5 |
| LnGrp LOS | E | C | D | D | D | D | E | E | C | D | E | C |
| Approach Vol, veh/h | | 879 | | | 622 | | | 1028 | | | 827 | |
| Approach Delay, s/veh | | 39.4 | | | 47.2 | | | 67.6 | | | 52.0 | |
| Approach LOS | | D | | | D | | | E | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 24.1 | 38.3 | 18.0 | 30.2 | 16.3 | 46.1 | 11.0 | 37.2 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 | 21.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 20.0 | 30.9 | 13.9 | 20.6 | 12.3 | 42.0 | 3.9 | 18.2 |
| Green Ext Time (p_c), s | 0.1 | 1.5 | 0.1 | 3.6 | 0.1 | 0.0 | 0.0 | 4.5 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 52.6 |
| HCM 7th LOS | D |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.7 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 33 | 91 | 0 | 16 | 97 |
| Future Vol, veh/h | 0 | 33 | 91 | 0 | 16 | 97 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 36 | 99 | 0 | 17 | 105 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 239 | 99 | 0 | 0 | 99 | 0 |
| Stage 1 | 99 | - | - | - | - | - |
| Stage 2 | 140 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 749 | 957 | - | - | 1494 | - |
| Stage 1 | 925 | - | - | - | - | - |
| Stage 2 | 887 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 740 | 957 | - | - | 1494 | - |
| Mov Cap-2 Maneuver | 740 | - | - | - | - | - |
| Stage 1 | 925 | - | - | - | - | - |
| Stage 2 | 876 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | 8.91 | 0 | 1.05 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 957 | 255 | - |
| HCM Lane V/C Ratio | - | - | 0.037 | 0.012 | - |
| HCM Control Delay (s/veh) | - | - | 8.9 | 7.4 | 0 |
| HCM Lane LOS | - | - | A | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.2 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | | ↑ | | ↱ |
| Traffic Vol, veh/h | 343 | 16 | 0 | 358 | 0 | 14 |
| Future Vol, veh/h | 343 | 16 | 0 | 358 | 0 | 14 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 373 | 17 | 0 | 389 | 0 | 15 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 382 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 666 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 666 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.53 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 666 | - | - | - |
| HCM Lane V/C Ratio | 0.023 | - | - | - |
| HCM Control Delay (s/veh) | 10.5 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | ↰ | ↑ | | ↱ |
| Traffic Vol, veh/h | 326 | 31 | 71 | 358 | 0 | 19 |
| Future Vol, veh/h | 326 | 31 | 71 | 358 | 0 | 19 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 354 | 34 | 77 | 389 | 0 | 21 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 388 | 0 | - | 371 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | 4.12 | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | 2.218 | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1170 | - | 0 | 675 |
| Stage 1 | - | - | - | - | 0 | - |
| Stage 2 | - | - | - | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 1170 | - | - | 675 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 1.37 | 10.5 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 675 | - | - | 1170 | - |
| HCM Lane V/C Ratio | 0.031 | - | - | 0.066 | - |
| HCM Control Delay (s/veh) | 10.5 | - | - | 8.3 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.2 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.4 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | ↑ | | | ↑ | | ↱ |
| Traffic Vol, veh/h | 321 | 24 | 0 | 429 | 0 | 28 |
| Future Vol, veh/h | 321 | 24 | 0 | 429 | 0 | 28 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 349 | 26 | 0 | 466 | 0 | 30 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 362 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.318 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 683 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 683 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 0 | 10.52 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | 683 | - | - | - |
| HCM Lane V/C Ratio | 0.045 | - | - | - |
| HCM Control Delay (s/veh) | 10.5 | - | - | - |
| HCM Lane LOS | B | - | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - |

# HCM 7th Signalized Intersection Summary
## 4: Minnewawa Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Existing Year WP_AM Peak Hour MIT

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Volume (veh/h) | 8 | 162 | 125 | 25 | 222 | 253 | 85 | 240 | 19 | 175 | 207 | 4 |
| Future Volume (veh/h) | 8 | 162 | 125 | 25 | 222 | 253 | 85 | 240 | 19 | 175 | 207 | 4 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1885 | 1885 | 1885 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 8 | 167 | 129 | 26 | 229 | 261 | 88 | 261 | 20 | 180 | 213 | 4 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.92 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 123 | 377 | 282 | 135 | 312 | 334 | 237 | 443 | 31 | 370 | 313 | 5 |
| Arrive On Green | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 |
| Sat Flow, veh/h | 14 | 971 | 726 | 38 | 803 | 861 | 291 | 1363 | 95 | 624 | 964 | 16 |
| Grp Volume(v), veh/h | 304 | 0 | 0 | 516 | 0 | 0 | 369 | 0 | 0 | 397 | 0 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1710 | 0 | 0 | 1703 | 0 | 0 | 1749 | 0 | 0 | 1604 | 0 | 0 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 4.1 | 0.0 | 0.0 | 8.2 | 0.0 | 0.0 | 5.3 | 0.0 | 0.0 | 6.3 | 0.0 | 0.0 |
| Prop In Lane | 0.03 | | 0.42 | 0.05 | | 0.51 | 0.24 | | 0.05 | 0.45 | | 0.01 |
| Lane Grp Cap(c), veh/h | 781 | 0 | 0 | 781 | 0 | 0 | 710 | 0 | 0 | 688 | 0 | 0 |
| V/C Ratio(X) | 0.39 | 0.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.52 | 0.00 | 0.00 | 0.58 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h | 1094 | 0 | 0 | 1092 | 0 | 0 | 1111 | 0 | 0 | 1038 | 0 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh | 7.1 | 0.0 | 0.0 | 8.4 | 0.0 | 0.0 | 8.9 | 0.0 | 0.0 | 9.2 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 0.3 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.8 | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 7.4 | 0.0 | 0.0 | 9.3 | 0.0 | 0.0 | 9.5 | 0.0 | 0.0 | 9.9 | 0.0 | 0.0 |
| LnGrp LOS | A | | | A | | | A | | | A | | |
| Approach Vol, veh/h | | 304 | | | 516 | | | 369 | | | 397 | |
| Approach Delay, s/veh | | 7.4 | | | 9.3 | | | 9.5 | | | 9.9 | |
| Approach LOS | | A | | | A | | | A | | | A | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 14.7 | | 16.7 | | 14.7 | | 16.7 | | | | |
| Change Period (Y+Rc), s | | 4.5 | | 4.5 | | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | | 18.0 | | 18.0 | | 18.0 | | 18.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 7.3 | | 6.1 | | 8.3 | | 10.2 | | | | |
| Green Ext Time (p_c), s | | 1.7 | | 1.3 | | 1.9 | | 1.9 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | 9.2 | | | | | | | | | |
| HCM 7th LOS | | | A | | | | | | | | | |

# HCM 7th Signalized Intersection Summary
## 4: Minnewawa Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Existing Year WP_PM Peak Hour MIT

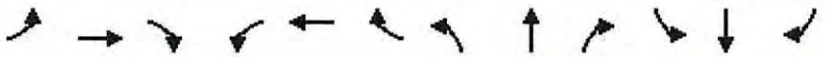
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Volume (veh/h) | 5 | 197 | 82 | 15 | 233 | 179 | 127 | 259 | 30 | 187 | 168 | 7 |
| Future Volume (veh/h) | 5 | 197 | 82 | 15 | 233 | 179 | 127 | 259 | 30 | 187 | 168 | 7 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 5 | 212 | 88 | 16 | 251 | 192 | 137 | 278 | 32 | 201 | 181 | 8 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 118 | 446 | 182 | 125 | 354 | 261 | 296 | 429 | 45 | 411 | 293 | 11 |
| Arrive On Green | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 |
| Sat Flow, veh/h | 8 | 1251 | 511 | 24 | 994 | 732 | 411 | 1185 | 123 | 663 | 809 | 31 |
| Grp Volume(v), veh/h | 305 | 0 | 0 | 459 | 0 | 0 | 447 | 0 | 0 | 390 | 0 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1770 | 0 | 0 | 1751 | 0 | 0 | 1719 | 0 | 0 | 1503 | 0 | 0 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 4.3 | 0.0 | 0.0 | 7.2 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | 6.4 | 0.0 | 0.0 |
| Prop In Lane | 0.02 | | 0.29 | 0.03 | | 0.42 | 0.31 | | 0.07 | 0.52 | | 0.02 |
| Lane Grp Cap(c), veh/h | 745 | 0 | 0 | 740 | 0 | 0 | 770 | 0 | 0 | 715 | 0 | 0 |
| V/C Ratio(X) | 0.41 | 0.00 | 0.00 | 0.62 | 0.00 | 0.00 | 0.58 | 0.00 | 0.00 | 0.55 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h | 1300 | 0 | 0 | 1287 | 0 | 0 | 1655 | 0 | 0 | 1465 | 0 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh | 8.0 | 0.0 | 0.0 | 8.9 | 0.0 | 0.0 | 8.6 | 0.0 | 0.0 | 8.5 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 0.4 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.9 | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 8.4 | 0.0 | 0.0 | 9.8 | 0.0 | 0.0 | 9.3 | 0.0 | 0.0 | 9.1 | 0.0 | 0.0 |
| LnGrp LOS | A | | | A | | | A | | | A | | |
| Approach Vol, veh/h | | 305 | | | 459 | | | 447 | | | 390 | |
| Approach Delay, s/veh | | 8.4 | | | 9.8 | | | 9.3 | | | 9.1 | |
| Approach LOS | | A | | | A | | | A | | | A | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 16.1 | | 15.9 | | 16.1 | | 15.9 | | | | |
| Change Period (Y+Rc), s | | 4.5 | | 4.5 | | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | | 29.5 | | 21.5 | | 29.5 | | 21.5 | | | | |
| Max Q Clear Time (g_c+I1), s | | 8.6 | | 6.3 | | 8.4 | | 9.2 | | | | |
| Green Ext Time (p_c), s | | 3.0 | | 1.5 | | 2.8 | | 2.2 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | 9.2 | | | | | | | | | |
| HCM 7th LOS | | | A | | | | | | | | | |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 17 |
| Intersection LOS | C |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 0 | 270 | 29 | 15 | 490 | 2 | 79 | 30 | 15 | 7 | 24 | 0 |
| Future Vol, veh/h | 0 | 270 | 29 | 15 | 490 | 2 | 79 | 30 | 15 | 7 | 24 | 0 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 293 | 32 | 16 | 533 | 2 | 86 | 33 | 16 | 8 | 26 | 0 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 12.6 | 21.5 | 11.1 | 9.9 |
| HCM LOS | B | C | B | A |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 64% | 0% | 3% | 23% |
| Vol Thru, % | 24% | 90% | 97% | 77% |
| Vol Right, % | 12% | 10% | 0% | 0% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 124 | 299 | 507 | 31 |
| LT Vol | 79 | 0 | 15 | 7 |
| Through Vol | 30 | 270 | 490 | 24 |
| RT Vol | 15 | 29 | 2 | 0 |
| Lane Flow Rate | 135 | 325 | 551 | 34 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.231 | 0.465 | 0.755 | 0.06 |
| Departure Headway (Hd) | 6.158 | 5.152 | 4.934 | 6.428 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 582 | 699 | 738 | 555 |
| Service Time | 4.207 | 3.188 | 2.934 | 4.488 |
| HCM Lane V/C Ratio | 0.232 | 0.465 | 0.747 | 0.061 |
| HCM Control Delay, s/veh | 11.1 | 12.6 | 21.5 | 9.9 |
| HCM Lane LOS | B | B | C | A |
| HCM 95th-tile Q | 0.9 | 2.5 | 7 | 0.2 |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 9 | 184 | 149 | 25 | 280 | 258 | 121 | 275 | 19 | 188 | 282 | 7 |
| Future Volume (veh/h) | 9 | 184 | 149 | 25 | 280 | 258 | 121 | 275 | 19 | 188 | 282 | 7 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1885 | 1885 | 1885 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 9 | 190 | 154 | 26 | 289 | 266 | 125 | 284 | 20 | 194 | 291 | 7 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 77 | 367 | 288 | 87 | 341 | 300 | 160 | 373 | 26 | 244 | 478 | 11 |
| Arrive On Green | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.09 | 0.22 | 0.22 | 0.14 | 0.26 | 0.26 |
| Sat Flow, veh/h | 14 | 962 | 755 | 36 | 894 | 785 | 1767 | 1713 | 121 | 1767 | 1804 | 43 |
| Grp Volume(v), veh/h | 353 | 0 | 0 | 581 | 0 | 0 | 125 | 0 | 304 | 194 | 0 | 298 |
| Grp Sat Flow(s),veh/h/ln | 1730 | 0 | 0 | 1715 | 0 | 0 | 1767 | 0 | 1834 | 1767 | 0 | 1848 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 5.8 | 0.0 | 0.0 | 3.6 | 0.0 | 8.0 | 5.5 | 0.0 | 7.3 |
| Cycle Q Clear(g_c), s | 8.2 | 0.0 | 0.0 | 16.2 | 0.0 | 0.0 | 3.6 | 0.0 | 8.0 | 5.5 | 0.0 | 7.3 |
| Prop In Lane | 0.03 | | 0.44 | 0.04 | | 0.46 | 1.00 | | 0.07 | 1.00 | | 0.02 |
| Lane Grp Cap(c), veh/h | 732 | 0 | 0 | 728 | 0 | 0 | 160 | 0 | 399 | 244 | 0 | 489 |
| V/C Ratio(X) | 0.48 | 0.00 | 0.00 | 0.80 | 0.00 | 0.00 | 0.78 | 0.00 | 0.76 | 0.80 | 0.00 | 0.61 |
| Avail Cap(c_a), veh/h | 826 | 0 | 0 | 822 | 0 | 0 | 258 | 0 | 696 | 327 | 0 | 773 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 12.4 | 0.0 | 0.0 | 14.8 | 0.0 | 0.0 | 22.9 | 0.0 | 18.9 | 21.5 | 0.0 | 16.6 |
| Incr Delay (d2), s/veh | 0.5 | 0.0 | 0.0 | 5.0 | 0.0 | 0.0 | 7.9 | 0.0 | 3.0 | 9.5 | 0.0 | 1.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.5 | 0.0 | 0.0 | 5.6 | 0.0 | 0.0 | 1.7 | 0.0 | 3.4 | 2.7 | 0.0 | 2.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 12.9 | 0.0 | 0.0 | 19.8 | 0.0 | 0.0 | 30.8 | 0.0 | 21.9 | 30.9 | 0.0 | 17.8 |
| LnGrp LOS | B | | | B | | | C | | C | C | | B |
| Approach Vol, veh/h | | 353 | | | 581 | | | 429 | | | 492 | |
| Approach Delay, s/veh | | 12.9 | | | 19.8 | | | 24.5 | | | 23.0 | |
| Approach LOS | | B | | | B | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 11.6 | 15.7 | | 24.1 | 9.2 | 18.1 | | 24.1 |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 |
| Max Green Setting (Gmax), s | 9.5 | 19.5 | | 22.5 | 7.5 | 21.5 | | 22.5 |
| Max Q Clear Time (g_c+I1), s | 7.5 | 10.0 | | 10.2 | 5.6 | 9.3 | | 18.2 |
| Green Ext Time (p_c), s | 0.1 | 1.2 | | 1.6 | 0.1 | 1.3 | | 1.4 |

| Intersection Summary | | |
|---|---|---|
| HCM 7th Control Delay, s/veh | 20.4 | |
| HCM 7th LOS | C | |

HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project
5: Minnewawa Avenue & Perrin Avenue Near Term WP_AM Peak Hour MIT



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 34 | 69 | 67 | 8 | 75 | 2 | 61 | 427 | 14 | 2 | 564 | 34 |
| Future Volume (veh/h) | 34 | 69 | 67 | 8 | 75 | 2 | 61 | 427 | 14 | 2 | 564 | 34 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 37 | 75 | 73 | 9 | 82 | 2 | 66 | 464 | 15 | 2 | 613 | 37 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 145 | 128 | 108 | 112 | 281 | 6 | 115 | 886 | 29 | 5 | 751 | 45 |
| Arrive On Green | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.06 | 0.50 | 0.50 | 0.00 | 0.43 | 0.43 |
| Sat Flow, veh/h | 224 | 780 | 654 | 85 | 1707 | 39 | 1767 | 1787 | 58 | 1767 | 1732 | 105 |
| Grp Volume(v), veh/h | 185 | 0 | 0 | 93 | 0 | 0 | 66 | 0 | 479 | 2 | 0 | 650 |
| Grp Sat Flow(s),veh/h/ln | 1658 | 0 | 0 | 1831 | 0 | 0 | 1767 | 0 | 1845 | 1767 | 0 | 1837 |
| Q Serve(g_s), s | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 0.0 | 7.1 | 0.0 | 0.0 | 12.4 |
| Cycle Q Clear(g_c), s | 4.1 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 1.5 | 0.0 | 7.1 | 0.0 | 0.0 | 12.4 |
| Prop In Lane | 0.20 | | 0.39 | 0.10 | | 0.02 | 1.00 | | 0.03 | 1.00 | | 0.06 |
| Lane Grp Cap(c), veh/h | 380 | 0 | 0 | 400 | 0 | 0 | 115 | 0 | 915 | 5 | 0 | 796 |
| V/C Ratio(X) | 0.49 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.58 | 0.00 | 0.52 | 0.41 | 0.00 | 0.82 |
| Avail Cap(c_a), veh/h | 846 | 0 | 0 | 910 | 0 | 0 | 225 | 0 | 1078 | 221 | 0 | 1068 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 15.7 | 0.0 | 0.0 | 14.7 | 0.0 | 0.0 | 18.2 | 0.0 | 6.9 | 19.9 | 0.0 | 9.9 |
| Incr Delay (d2), s/veh | 1.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 4.5 | 0.0 | 0.5 | 47.6 | 0.0 | 3.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.4 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.7 | 0.0 | 1.9 | 0.1 | 0.0 | 4.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 16.6 | 0.0 | 0.0 | 15.0 | 0.0 | 0.0 | 22.7 | 0.0 | 7.3 | 67.5 | 0.0 | 13.6 |
| LnGrp LOS | B | | | B | | | C | | A | E | | B |
| Approach Vol, veh/h | | 185 | | | 93 | | | 545 | | | 652 | |
| Approach Delay, s/veh | | 16.6 | | | 15.0 | | | 9.2 | | | 13.8 | |
| Approach LOS | | B | | | B | | | A | | | B | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 4.6 | 24.4 | | 11.1 | 7.1 | 21.9 | | 11.1 | | | | |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 5.0 | 23.4 | | 18.1 | 5.1 | 23.3 | | 18.1 | | | | |
| Max Q Clear Time (g_c+I1), s | 12.0 | 9.1 | | 6.1 | 3.5 | 14.4 | | 3.8 | | | | |
| Green Ext Time (p_c), s | 0.0 | 2.6 | | 0.8 | 0.0 | 2.9 | | 0.3 | | | | |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 12.5 |
| HCM 7th LOS | B |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 17.3 |
| Intersection LOS | C |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 422 | 49 | 27 | 379 | 7 | 76 | 39 | 20 | 2 | 39 | 1 |
| Future Vol, veh/h | 1 | 422 | 49 | 27 | 379 | 7 | 76 | 39 | 20 | 2 | 39 | 1 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 449 | 52 | 29 | 403 | 7 | 81 | 41 | 21 | 2 | 41 | 1 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 19.8 | 17 | 11.6 | 10.3 |
| HCM LOS | C | C | B | B |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 56% | 0% | 7% | 5% |
| Vol Thru, % | 29% | 89% | 92% | 93% |
| Vol Right, % | 15% | 10% | 2% | 2% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 135 | 472 | 413 | 42 |
| LT Vol | 76 | 1 | 27 | 2 |
| Through Vol | 39 | 422 | 379 | 39 |
| RT Vol | 20 | 49 | 7 | 1 |
| Lane Flow Rate | 144 | 502 | 439 | 45 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.253 | 0.712 | 0.636 | 0.082 |
| Departure Headway (Hd) | 6.345 | 5.108 | 5.213 | 6.617 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 564 | 708 | 690 | 538 |
| Service Time | 4.406 | 3.149 | 3.256 | 4.694 |
| HCM Lane V/C Ratio | 0.255 | 0.709 | 0.636 | 0.084 |
| HCM Control Delay, s/veh | 11.6 | 19.8 | 17 | 10.3 |
| HCM Lane LOS | B | C | C | B |
| HCM 95th-tile Q | 1 | 6 | 4.6 | 0.3 |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 6 | 257 | 122 | 15 | 287 | 187 | 172 | 351 | 31 | 194 | 223 | 8 |
| Future Volume (veh/h) | 6 | 257 | 122 | 15 | 287 | 187 | 172 | 351 | 31 | 194 | 223 | 8 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 6 | 276 | 131 | 16 | 309 | 201 | 185 | 377 | 33 | 209 | 240 | 9 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 69 | 405 | 189 | 75 | 358 | 226 | 233 | 460 | 40 | 260 | 510 | 19 |
| Arrive On Green | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.13 | 0.27 | 0.27 | 0.15 | 0.29 | 0.29 |
| Sat Flow, veh/h | 7 | 1206 | 564 | 21 | 1067 | 673 | 1781 | 1695 | 148 | 1767 | 1777 | 67 |
| Grp Volume(v), veh/h | 413 | 0 | 0 | 526 | 0 | 0 | 185 | 0 | 410 | 209 | 0 | 249 |
| Grp Sat Flow(s),veh/h/ln | 1777 | 0 | 0 | 1761 | 0 | 0 | 1781 | 0 | 1844 | 1767 | 0 | 1844 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 5.5 | 0.0 | 11.4 | 6.3 | 0.0 | 6.1 |
| Cycle Q Clear(g_c), s | 11.1 | 0.0 | 0.0 | 15.4 | 0.0 | 0.0 | 5.5 | 0.0 | 11.4 | 6.3 | 0.0 | 6.1 |
| Prop In Lane | 0.01 | | 0.32 | 0.03 | | 0.38 | 1.00 | | 0.08 | 1.00 | | 0.04 |
| Lane Grp Cap(c), veh/h | 663 | 0 | 0 | 659 | 0 | 0 | 233 | 0 | 500 | 260 | 0 | 529 |
| V/C Ratio(X) | 0.62 | 0.00 | 0.00 | 0.80 | 0.00 | 0.00 | 0.79 | 0.00 | 0.82 | 0.81 | 0.00 | 0.47 |
| Avail Cap(c_a), veh/h | 730 | 0 | 0 | 726 | 0 | 0 | 315 | 0 | 690 | 339 | 0 | 717 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 15.8 | 0.0 | 0.0 | 17.2 | 0.0 | 0.0 | 23.1 | 0.0 | 18.7 | 22.6 | 0.0 | 16.1 |
| Incr Delay (d2), s/veh | 1.4 | 0.0 | 0.0 | 5.8 | 0.0 | 0.0 | 9.5 | 0.0 | 5.6 | 10.2 | 0.0 | 0.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 8.9 | 0.0 | 0.0 | 6.0 | 0.0 | 0.0 | 2.8 | 0.0 | 5.1 | 3.1 | 0.0 | 2.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 17.2 | 0.0 | 0.0 | 23.0 | 0.0 | 0.0 | 32.6 | 0.0 | 24.3 | 32.9 | 0.0 | 16.7 |
| LnGrp LOS | B | | | C | | | C | | C | C | | B |
| Approach Vol, veh/h | | 413 | | | 526 | | | 595 | | | 458 | |
| Approach Delay, s/veh | | 17.2 | | | 23.0 | | | 26.9 | | | 24.1 | |
| Approach LOS | | B | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.5 | 19.4 | | 22.9 | 11.7 | 20.2 | | 22.9 | | | | |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 10.5 | 20.5 | | 20.5 | 9.7 | 21.3 | | 20.5 | | | | |
| Max Q Clear Time (g_c+I1), s | 8.3 | 13.4 | | 13.1 | 7.5 | 8.1 | | 17.4 | | | | |
| Green Ext Time (p_c), s | 0.1 | 1.4 | | 1.4 | 0.1 | 1.1 | | 0.9 | | | | |

| Intersection Summary | | |
|---|---|---|
| HCM 7th Control Delay, s/veh | 23.2 | |
| HCM 7th LOS | C | |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↔ | | | ↔ | | | ↑ | | | ↑ | |
| Traffic Volume (veh/h) | 38 | 98 | 91 | 15 | 96 | 2 | 88 | 616 | 8 | 1 | 436 | 38 |
| Future Volume (veh/h) | 38 | 98 | 91 | 15 | 96 | 2 | 88 | 616 | 8 | 1 | 436 | 38 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 40 | 103 | 96 | 16 | 101 | 2 | 93 | 648 | 9 | 1 | 459 | 40 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.92 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 144 | 168 | 137 | 129 | 340 | 6 | 145 | 827 | 11 | 5 | 622 | 54 |
| Arrive On Green | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.08 | 0.45 | 0.45 | 0.00 | 0.37 | 0.37 |
| Sat Flow, veh/h | 177 | 822 | 671 | 119 | 1666 | 31 | 1781 | 1840 | 26 | 1767 | 1683 | 147 |
| Grp Volume(v), veh/h | 239 | 0 | 0 | 119 | 0 | 0 | 93 | 0 | 657 | 1 | 0 | 499 |
| Grp Sat Flow(s),veh/h/ln | 1670 | 0 | 0 | 1816 | 0 | 0 | 1781 | 0 | 1866 | 1767 | 0 | 1829 |
| Q Serve(g_s), s | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 11.7 | 0.0 | 0.0 | 9.2 |
| Cycle Q Clear(g_c), s | 5.1 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 2.0 | 0.0 | 11.7 | 0.0 | 0.0 | 9.2 |
| Prop In Lane | 0.17 | | 0.40 | 0.13 | | 0.02 | 1.00 | | 0.01 | 1.00 | | 0.08 |
| Lane Grp Cap(c), veh/h | 448 | 0 | 0 | 475 | 0 | 0 | 145 | 0 | 839 | 5 | 0 | 676 |
| V/C Ratio(X) | 0.53 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.64 | 0.00 | 0.78 | 0.22 | 0.00 | 0.74 |
| Avail Cap(c_a), veh/h | 878 | 0 | 0 | 931 | 0 | 0 | 228 | 0 | 1322 | 226 | 0 | 1296 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 14.4 | 0.0 | 0.0 | 13.2 | 0.0 | 0.0 | 17.4 | 0.0 | 9.1 | 19.5 | 0.0 | 10.7 |
| Incr Delay (d2), s/veh | 1.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 4.7 | 0.0 | 1.6 | 23.0 | 0.0 | 1.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.7 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.9 | 0.0 | 3.5 | 0.0 | 0.0 | 3.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 15.4 | 0.0 | 0.0 | 13.5 | 0.0 | 0.0 | 22.1 | 0.0 | 10.8 | 42.4 | 0.0 | 12.3 |
| LnGrp LOS | B | | | B | | | C | | B | D | | B |
| Approach Vol, veh/h | | 239 | | | 119 | | | 750 | | | 500 | |
| Approach Delay, s/veh | | 15.4 | | | 13.5 | | | 12.2 | | | 12.3 | |
| Approach LOS | | B | | | B | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 4.6 | 22.1 | | 12.5 | 7.7 | 19.0 | | 12.5 |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 |
| Max Green Setting (Gmax), s | 5.6 | 27.7 | | 18.3 | 5.0 | 27.7 | | 18.3 |
| Max Q Clear Time (g_c+I1), s | 2.0 | 13.7 | | 7.1 | 4.0 | 11.2 | | 4.1 |
| Green Ext Time (p_c), s | 0.0 | 3.9 | | 1.0 | 0.0 | 3.0 | | 0.5 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 12.8 |
| HCM 7th LOS | B |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Cumulative Year WP_AM Peak Hour MIT

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 84 | 223 | 267 | 547 | 293 | 337 | 193 | 784 | 265 | 150 | 913 | 57 |
| Future Volume (veh/h) | 84 | 223 | 267 | 547 | 293 | 337 | 193 | 784 | 265 | 150 | 913 | 57 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 87 | 230 | 275 | 564 | 302 | 347 | 199 | 808 | 273 | 155 | 941 | 59 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 123 | 366 | 311 | 615 | 544 | 461 | 223 | 1592 | 777 | 184 | 1473 | 457 |
| Arrive On Green | 0.07 | 0.20 | 0.20 | 0.18 | 0.29 | 0.29 | 0.13 | 0.31 | 0.31 | 0.10 | 0.29 | 0.29 |
| Sat Flow, veh/h | 1767 | 1856 | 1572 | 3456 | 1870 | 1585 | 1781 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 87 | 230 | 275 | 564 | 302 | 347 | 199 | 808 | 273 | 155 | 941 | 59 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1856 | 1572 | 1728 | 1870 | 1585 | 1781 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 5.1 | 12.0 | 18.1 | 17.0 | 14.5 | 21.1 | 11.7 | 13.7 | 11.3 | 9.1 | 17.2 | 2.9 |
| Cycle Q Clear(g_c), s | 5.1 | 12.0 | 18.1 | 17.0 | 14.5 | 21.1 | 11.7 | 13.7 | 11.3 | 9.1 | 17.2 | 2.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 123 | 366 | 311 | 615 | 544 | 461 | 223 | 1592 | 777 | 184 | 1473 | 457 |
| V/C Ratio(X) | 0.71 | 0.63 | 0.89 | 0.92 | 0.56 | 0.75 | 0.89 | 0.51 | 0.35 | 0.84 | 0.64 | 0.13 |
| Avail Cap(c_a), veh/h | 147 | 411 | 348 | 615 | 564 | 478 | 223 | 1761 | 829 | 231 | 1776 | 551 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 48.3 | 39.0 | 41.4 | 42.8 | 31.8 | 34.2 | 45.7 | 29.9 | 16.7 | 46.7 | 32.8 | 27.7 |
| Incr Delay (d2), s/veh | 8.4 | 2.8 | 21.7 | 18.3 | 2.1 | 8.0 | 32.0 | 0.8 | 0.9 | 16.4 | 1.5 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.5 | 5.6 | 8.6 | 8.6 | 6.6 | 8.8 | 7.1 | 5.7 | 4.0 | 4.8 | 7.2 | 1.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 56.7 | 41.8 | 63.1 | 61.1 | 33.9 | 42.1 | 77.7 | 30.7 | 17.6 | 63.1 | 34.3 | 28.1 |
| LnGrp LOS | E | D | E | E | C | D | E | C | B | E | C | C |
| Approach Vol, veh/h | | 592 | | | 1213 | | | 1280 | | | 1155 | |
| Approach Delay, s/veh | | 53.9 | | | 48.9 | | | 35.2 | | | 37.9 | |
| Approach LOS | | D | | | D | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 18.6 | 36.6 | 13.6 | 37.4 | 16.4 | 38.8 | 23.5 | 27.5 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 13.3 | 37.2 | 8.8 | 32.0 | 13.9 | 36.6 | 18.9 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 13.7 | 19.2 | 7.1 | 23.1 | 11.1 | 15.7 | 19.0 | 20.1 |
| Green Ext Time (p_c), s | 0.0 | 11.7 | 0.0 | 3.7 | 0.1 | 13.2 | 0.0 | 0.9 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 42.5 |
| HCM 7th LOS | D |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Benymer Project
## 2: Willow Avenue & Perrin Avenue
Cumulative Year WP_AM Peak Hour MIT

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 278 | 126 | 209 | 197 | 200 | 76 | 160 | 861 | 134 | 45 | 1252 | 449 |
| Future Volume (veh/h) | 278 | 126 | 209 | 197 | 200 | 76 | 160 | 861 | 134 | 45 | 1252 | 449 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 287 | 130 | 215 | 203 | 206 | 78 | 165 | 888 | 138 | 46 | 1291 | 463 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 337 | 357 | 302 | 249 | 264 | 223 | 270 | 1979 | 614 | 101 | 1908 | 592 |
| Arrive On Green | 0.19 | 0.19 | 0.19 | 0.14 | 0.14 | 0.14 | 0.08 | 0.39 | 0.39 | 0.06 | 0.38 | 0.38 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1810 | 1900 | 1610 | 3456 | 5106 | 1585 | 1767 | 5066 | 1572 |
| Grp Volume(v), veh/h | 287 | 130 | 215 | 203 | 206 | 78 | 165 | 888 | 138 | 46 | 1291 | 463 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1810 | 1900 | 1610 | 1728 | 1702 | 1585 | 1767 | 1689 | 1572 |
| Q Serve(g_s), s | 15.8 | 6.1 | 12.9 | 11.0 | 10.6 | 4.4 | 4.7 | 13.1 | 5.9 | 2.6 | 21.6 | 26.4 |
| Cycle Q Clear(g_c), s | 15.8 | 6.1 | 12.9 | 11.0 | 10.6 | 4.4 | 4.7 | 13.1 | 5.9 | 2.6 | 21.6 | 26.4 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 337 | 357 | 302 | 249 | 264 | 223 | 270 | 1979 | 614 | 101 | 1908 | 592 |
| V/C Ratio(X) | 0.85 | 0.36 | 0.71 | 0.82 | 0.78 | 0.35 | 0.61 | 0.45 | 0.22 | 0.45 | 0.68 | 0.78 |
| Avail Cap(c_a), veh/h | 469 | 443 | 375 | 393 | 362 | 307 | 276 | 1979 | 614 | 152 | 1949 | 605 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 39.7 | 35.7 | 38.4 | 42.5 | 42.2 | 39.5 | 45.2 | 23.0 | 20.8 | 46.2 | 26.4 | 27.9 |
| Incr Delay (d2), s/veh | 16.7 | 1.7 | 9.0 | 16.4 | 14.0 | 2.6 | 2.7 | 0.5 | 0.6 | 1.2 | 1.6 | 8.8 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 8.2 | 2.9 | 5.6 | 6.0 | 6.0 | 1.9 | 2.1 | 5.2 | 2.2 | 1.2 | 8.7 | 10.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 56.4 | 37.4 | 47.4 | 58.8 | 56.1 | 42.1 | 47.9 | 23.5 | 21.4 | 47.4 | 28.0 | 36.7 |
| LnGrp LOS | E | D | D | E | E | D | D | C | C | D | C | D |
| Approach Vol, veh/h | | 632 | | | 487 | | | 1191 | | | 1800 | |
| Approach Delay, s/veh | | 49.4 | | | 55.0 | | | 26.7 | | | 30.8 | |
| Approach LOS | | D | | | E | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.2 | 43.9 | 24.5 | 19.8 | 12.1 | 45.0 | 19.2 | 25.0 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 5.3 | 5.7 | 6.3 | 5.7 | 5.3 | 5.7 |
| Max Green Setting (Gmax), s | 8.1 | 39.0 | 26.7 | 19.3 | 8.7 | 37.3 | 22.0 | 24.0 |
| Max Q Clear Time (g_c+I1), s | 6.7 | 28.4 | 17.8 | 12.6 | 4.6 | 15.1 | 13.0 | 14.9 |
| Green Ext Time (p_c), s | 0.0 | 9.8 | 1.4 | 1.4 | 0.0 | 13.8 | 0.9 | 2.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 35.3 |
| HCM 7th LOS | D |

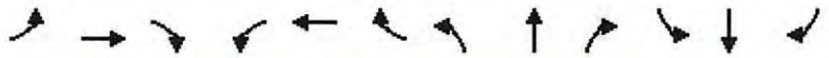
HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project
3: Peach Avenue & Behymer Avenue Cumulative Year WP_AM Peak Hour MIT



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Volume (veh/h) | 0 | 312 | 60 | 45 | 964 | 7 | 70 | 56 | 36 | 36 | 47 | 1 |
| Future Volume (veh/h) | 0 | 312 | 60 | 45 | 964 | 7 | 70 | 56 | 36 | 36 | 47 | 1 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 0 | 339 | 65 | 49 | 1048 | 8 | 76 | 61 | 39 | 39 | 51 | 1 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 0 | 1040 | 199 | 100 | 1226 | 9 | 183 | 101 | 54 | 172 | 183 | 3 |
| Arrive On Green | 0.00 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Sat Flow, veh/h | 0 | 1513 | 290 | 45 | 1783 | 13 | 602 | 686 | 367 | 527 | 1235 | 20 |
| Grp Volume(v), veh/h | 0 | 0 | 404 | 1105 | 0 | 0 | 176 | 0 | 0 | 91 | 0 | 0 |
| Grp Sat Flow(s),veh/h/ln | 0 | 0 | 1803 | 1842 | 0 | 0 | 1654 | 0 | 0 | 1782 | 0 | 0 |
| Q Serve(g_s), s | 0.0 | 0.0 | 4.9 | 8.7 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 0.0 | 0.0 | 4.9 | 25.1 | 0.0 | 0.0 | 5.4 | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 |
| Prop In Lane | 0.00 | | 0.16 | 0.04 | | 0.01 | 0.43 | | 0.22 | 0.43 | | 0.01 |
| Lane Grp Cap(c), veh/h | 0 | 0 | 1240 | 1335 | 0 | 0 | 339 | 0 | 0 | 358 | 0 | 0 |
| V/C Ratio(X) | 0.00 | 0.00 | 0.33 | 0.83 | 0.00 | 0.00 | 0.52 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h | 0 | 0 | 1734 | 1831 | 0 | 0 | 640 | 0 | 0 | 662 | 0 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh | 0.0 | 0.0 | 3.4 | 6.5 | 0.0 | 0.0 | 22.0 | 0.0 | 0.0 | 20.8 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 0.0 | 0.0 | 0.2 | 2.4 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.0 | 0.0 | 0.8 | 4.7 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 0.0 | 0.0 | 3.6 | 8.9 | 0.0 | 0.0 | 23.3 | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 |
| LnGrp LOS | | | A | A | | | C | | | C | | |
| Approach Vol, veh/h | | 404 | | | 1105 | | | 176 | | | 91 | |
| Approach Delay, s/veh | | 3.6 | | | 8.9 | | | 23.3 | | | 21.2 | |
| Approach LOS | | A | | | A | | | C | | | C | |

| Timer - Assigned Phs | 2 | 4 | 6 | 8 |
|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.6 | 42.0 | 12.6 | 42.0 |
| Change Period (Y+Rc), s | 4.5 | 4.5 | 4.5 | 4.5 |
| Max Green Setting (Gmax), s | 18.5 | 52.5 | 18.5 | 52.5 |
| Max Q Clear Time (g_c+I1), s | 7.4 | 6.9 | 4.3 | 27.1 |
| Green Ext Time (p_c), s | 0.7 | 2.6 | 0.3 | 10.5 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 9.7 |
| HCM 7th LOS | A |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 16 | 259 | 181 | 63 | 525 | 279 | 187 | 317 | 35 | 250 | 544 | 24 |
| Future Volume (veh/h) | 16 | 259 | 181 | 63 | 525 | 279 | 187 | 317 | 35 | 250 | 544 | 24 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1885 | 1885 | 1885 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 16 | 267 | 187 | 65 | 541 | 288 | 193 | 327 | 36 | 258 | 561 | 25 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 153 | 641 | 543 | 322 | 651 | 552 | 335 | 640 | 542 | 524 | 655 | 29 |
| Arrive On Green | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.10 | 0.34 | 0.34 | 0.12 | 0.37 | 0.37 |
| Sat Flow, veh/h | 656 | 1856 | 1572 | 944 | 1885 | 1598 | 1767 | 1856 | 1572 | 1767 | 1763 | 79 |
| Grp Volume(v), veh/h | 16 | 267 | 187 | 65 | 541 | 288 | 193 | 327 | 36 | 258 | 0 | 586 |
| Grp Sat Flow(s),veh/h/ln | 656 | 1856 | 1572 | 944 | 1885 | 1598 | 1767 | 1856 | 1572 | 1767 | 0 | 1841 |
| Q Serve(g_s), s | 1.7 | 8.0 | 6.4 | 4.1 | 19.1 | 10.4 | 5.0 | 10.2 | 1.1 | 6.6 | 0.0 | 21.2 |
| Cycle Q Clear(g_c), s | 20.7 | 8.0 | 6.4 | 12.1 | 19.1 | 10.4 | 5.0 | 10.2 | 1.1 | 6.6 | 0.0 | 21.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.04 |
| Lane Grp Cap(c), veh/h | 153 | 641 | 543 | 322 | 651 | 552 | 335 | 640 | 542 | 524 | 0 | 684 |
| V/C Ratio(X) | 0.10 | 0.42 | 0.34 | 0.20 | 0.83 | 0.52 | 0.58 | 0.51 | 0.07 | 0.49 | 0.00 | 0.86 |
| Avail Cap(c_a), veh/h | 248 | 909 | 771 | 458 | 924 | 783 | 425 | 920 | 779 | 675 | 0 | 1025 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 31.3 | 18.1 | 17.6 | 22.7 | 21.8 | 18.9 | 16.0 | 18.9 | 15.9 | 12.9 | 0.0 | 21.0 |
| Incr Delay (d2), s/veh | 0.3 | 0.4 | 0.4 | 0.3 | 4.5 | 0.8 | 1.6 | 0.6 | 0.1 | 0.7 | 0.0 | 4.8 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 3.1 | 2.1 | 0.9 | 8.1 | 3.5 | 1.9 | 4.2 | 0.4 | 2.4 | 0.0 | 9.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 31.6 | 18.6 | 18.0 | 23.0 | 26.3 | 19.7 | 17.6 | 19.5 | 16.0 | 13.7 | 0.0 | 25.8 |
| LnGrp LOS | C | B | B | C | C | B | B | B | B | B | | C |
| Approach Vol, veh/h | | 470 | | | 894 | | | 556 | | | 844 | |
| Approach Delay, s/veh | | 18.8 | | | 23.9 | | | 18.6 | | | 22.1 | |
| Approach LOS | | B | | | C | | | B | | | C | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.4 | 29.5 | | 29.5 | 11.5 | 31.4 | | 29.5 |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 |
| Max Green Setting (Gmax), s | 15.1 | 35.9 | | 35.5 | 10.7 | 40.3 | | 35.5 |
| Max Q Clear Time (g_c+I1), s | 8.6 | 12.2 | | 22.7 | 7.0 | 23.2 | | 21.1 |
| Green Ext Time (p_c), s | 0.4 | 2.1 | | 1.8 | 0.2 | 3.7 | | 3.9 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 21.4 |
| HCM 7th LOS | C |

HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project
5: Minnewawa Avenue & Perrin Avenue Cumulative Year WP_AM Peak Hour MIT



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 85 | 129 | 121 | 22 | 144 | 4 | 96 | 533 | 18 | 3 | 990 | 140 |
| Future Volume (veh/h) | 85 | 129 | 121 | 22 | 144 | 4 | 96 | 533 | 18 | 3 | 990 | 140 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 92 | 140 | 132 | 24 | 157 | 4 | 104 | 579 | 20 | 3 | 1076 | 152 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 118 | 172 | 162 | 48 | 281 | 7 | 154 | 1505 | 52 | 133 | 1305 | 184 |
| Arrive On Green | 0.07 | 0.19 | 0.19 | 0.03 | 0.15 | 0.15 | 0.09 | 0.43 | 0.43 | 0.08 | 0.42 | 0.42 |
| Sat Flow, veh/h | 1781 | 885 | 835 | 1781 | 1816 | 46 | 1767 | 3477 | 120 | 1767 | 3102 | 437 |
| Grp Volume(v), veh/h | 92 | 0 | 272 | 24 | 0 | 161 | 104 | 293 | 306 | 3 | 611 | 617 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 0 | 1720 | 1781 | 0 | 1862 | 1767 | 1763 | 1834 | 1767 | 1763 | 1777 |
| Q Serve(g_s), s | 3.4 | 0.0 | 10.1 | 0.9 | 0.0 | 5.3 | 3.8 | 7.5 | 7.5 | 0.1 | 20.4 | 20.5 |
| Cycle Q Clear(g_c), s | 3.4 | 0.0 | 10.1 | 0.9 | 0.0 | 5.3 | 3.8 | 7.5 | 7.5 | 0.1 | 20.4 | 20.5 |
| Prop In Lane | 1.00 | | 0.49 | 1.00 | | 0.02 | 1.00 | | 0.07 | 1.00 | | 0.25 |
| Lane Grp Cap(c), veh/h | 118 | 0 | 333 | 48 | 0 | 288 | 154 | 763 | 794 | 133 | 742 | 748 |
| V/C Ratio(X) | 0.78 | 0.00 | 0.82 | 0.50 | 0.00 | 0.56 | 0.67 | 0.38 | 0.38 | 0.02 | 0.82 | 0.83 |
| Avail Cap(c_a), veh/h | 148 | 0 | 477 | 137 | 0 | 505 | 173 | 889 | 925 | 133 | 849 | 856 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 30.5 | 0.0 | 25.6 | 31.9 | 0.0 | 26.0 | 29.4 | 12.8 | 12.8 | 28.4 | 17.0 | 17.1 |
| Incr Delay (d2), s/veh | 18.7 | 0.0 | 7.2 | 7.8 | 0.0 | 1.7 | 8.5 | 0.3 | 0.3 | 0.1 | 5.9 | 6.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.0 | 0.0 | 4.5 | 0.5 | 0.0 | 2.4 | 1.9 | 2.7 | 2.8 | 0.0 | 8.5 | 8.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 49.3 | 0.0 | 32.8 | 39.7 | 0.0 | 27.7 | 37.9 | 13.1 | 13.1 | 28.5 | 22.9 | 23.0 |
| LnGrp LOS | D | | C | D | | C | D | B | B | C | C | C |
| Approach Vol, veh/h | | 364 | | | 185 | | | 703 | | | 1231 | |
| Approach Delay, s/veh | | 37.0 | | | 29.2 | | | 16.8 | | | 23.0 | |
| Approach LOS | | D | | | C | | | B | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 9.5 | 33.3 | 6.3 | 17.4 | 10.3 | 32.5 | 8.9 | 14.8 |
| Change Period (Y+Rc), s | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| Max Green Setting (Gmax), s | 5.0 | 33.5 | 5.1 | 18.4 | 6.5 | 32.0 | 5.5 | 18.0 |
| Max Q Clear Time (g_c+I1), s | 12.1 | 9.5 | 2.9 | 12.1 | 5.8 | 22.5 | 5.4 | 7.3 |
| Green Ext Time (p_c), s | 0.0 | 3.8 | 0.0 | 0.8 | 0.0 | 5.5 | 0.0 | 0.6 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 23.8 |
| HCM 7th LOS | C |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 150 | 564 | 508 | 106 | 503 | 322 | 260 | 397 | 51 | 297 | 994 | 221 |
| Future Volume (veh/h) | 150 | 564 | 508 | 106 | 503 | 322 | 260 | 397 | 51 | 297 | 994 | 221 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 432 | 55 | 323 | 1080 | 240 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 190 | 983 | 596 | 160 | 924 | 724 | 344 | 828 | 105 | 351 | 1272 | 568 |
| Arrive On Green | 0.11 | 0.28 | 0.28 | 0.09 | 0.26 | 0.26 | 0.10 | 0.26 | 0.26 | 0.20 | 0.36 | 0.36 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 3526 | 1572 | 3428 | 3148 | 399 | 1767 | 3526 | 1572 |
| Grp Volume(v), veh/h | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 241 | 246 | 323 | 1080 | 240 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1763 | 1572 | 1714 | 1763 | 1784 | 1767 | 1763 | 1572 |
| Q Serve(g_s), s | 10.7 | 18.0 | 33.0 | 7.5 | 16.0 | 18.3 | 9.6 | 13.8 | 14.0 | 21.2 | 33.4 | 13.6 |
| Cycle Q Clear(g_c), s | 10.7 | 18.0 | 33.0 | 7.5 | 16.0 | 18.3 | 9.6 | 13.8 | 14.0 | 21.2 | 33.4 | 13.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.22 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 190 | 983 | 596 | 160 | 924 | 724 | 344 | 463 | 469 | 351 | 1272 | 568 |
| V/C Ratio(X) | 0.86 | 0.62 | 0.93 | 0.72 | 0.59 | 0.48 | 0.82 | 0.52 | 0.52 | 0.92 | 0.85 | 0.42 |
| Avail Cap(c_a), veh/h | 224 | 983 | 596 | 179 | 924 | 724 | 550 | 536 | 543 | 433 | 1370 | 611 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 51.9 | 37.3 | 35.1 | 52.3 | 38.1 | 22.1 | 52.2 | 37.2 | 37.3 | 46.5 | 34.8 | 28.5 |
| Incr Delay (d2), s/veh | 21.5 | 1.5 | 20.8 | 9.0 | 1.3 | 0.8 | 2.5 | 1.0 | 1.0 | 20.3 | 5.2 | 0.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 5.7 | 7.6 | 17.6 | 3.6 | 6.8 | 6.4 | 4.1 | 5.9 | 6.0 | 11.2 | 15.0 | 5.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 73.4 | 38.7 | 56.0 | 61.4 | 39.5 | 23.0 | 54.7 | 38.2 | 38.3 | 66.8 | 40.1 | 29.2 |
| LnGrp LOS | E | D | E | E | D | C | D | D | D | E | D | C |
| Approach Vol, veh/h | | 1328 | | | 1012 | | | 770 | | | 1643 | |
| Approach Delay, s/veh | | 50.2 | | | 36.2 | | | 44.3 | | | 43.7 | |
| Approach LOS | | D | | | D | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 15.9 | 48.7 | 16.7 | 37.0 | 27.5 | 37.1 | 14.7 | 39.0 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | 9.0 | 46.0 | 15.0 | 30.0 | 29.0 | 36.0 | 12.0 | 33.0 |
| Max Q Clear Time (g_c+I1), s | 11.6 | 35.4 | 12.7 | 20.3 | 23.2 | 16.0 | 9.5 | 35.0 |
| Green Ext Time (p_c), s | 0.3 | 7.3 | 0.0 | 4.7 | 0.3 | 2.7 | 0.0 | 0.0 |

| Intersection Summary | | |
|---|---|---|
| HCM 7th Control Delay, s/veh | | 44.0 |
| HCM 7th LOS | | D |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 1: Willow Avenue & Behymer Avenue

Cumulative Year WP_PM Peak Hour MIT

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 22 | 259 | 237 | 526 | 255 | 259 | 215 | 889 | 670 | 252 | 655 | 42 |
| Future Volume (veh/h) | 22 | 259 | 237 | 526 | 255 | 259 | 215 | 889 | 670 | 252 | 655 | 42 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 24 | 282 | 258 | 572 | 277 | 282 | 234 | 966 | 728 | 274 | 712 | 46 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 67 | 332 | 281 | 558 | 540 | 457 | 398 | 1683 | 777 | 243 | 1244 | 386 |
| Arrive On Green | 0.04 | 0.18 | 0.18 | 0.16 | 0.28 | 0.28 | 0.22 | 0.33 | 0.33 | 0.13 | 0.24 | 0.24 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 3510 | 1900 | 1610 | 1795 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 24 | 282 | 258 | 572 | 277 | 282 | 234 | 966 | 728 | 274 | 712 | 46 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1755 | 1900 | 1610 | 1795 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 1.4 | 16.0 | 10.5 | 17.4 | 13.4 | 11.0 | 12.8 | 17.0 | 21.7 | 14.7 | 13.2 | 2.0 |
| Cycle Q Clear(g_c), s | 1.4 | 16.0 | 10.5 | 17.4 | 13.4 | 11.0 | 12.8 | 17.0 | 21.7 | 14.7 | 13.2 | 2.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 67 | 332 | 281 | 558 | 540 | 457 | 398 | 1683 | 777 | 243 | 1244 | 386 |
| V/C Ratio(X) | 0.36 | 0.85 | 0.92 | 1.02 | 0.51 | 0.62 | 0.59 | 0.57 | 0.94 | 1.13 | 0.57 | 0.12 |
| Avail Cap(c_a), veh/h | 130 | 402 | 340 | 558 | 544 | 461 | 398 | 1755 | 799 | 243 | 1863 | 578 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 51.3 | 43.6 | 15.9 | 46.0 | 32.8 | 14.9 | 38.1 | 30.5 | 9.0 | 47.4 | 36.6 | 21.2 |
| Incr Delay (d2), s/veh | 1.2 | 14.1 | 26.5 | 44.5 | 1.7 | 3.7 | 1.6 | 1.1 | 19.5 | 96.2 | 1.4 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.7 | 8.5 | 5.7 | 10.8 | 6.2 | 4.2 | 5.8 | 7.1 | 9.4 | 13.1 | 5.7 | 1.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 52.5 | 57.7 | 42.4 | 90.5 | 34.5 | 18.6 | 39.7 | 31.5 | 28.5 | 143.5 | 38.0 | 21.6 |
| LnGrp LOS | D | E | D | F | C | B | D | C | C | F | D | C |
| Approach Vol, veh/h | | 564 | | | 1131 | | | 1928 | | | 1032 | |
| Approach Delay, s/veh | | 50.5 | | | 58.8 | | | 31.4 | | | 65.3 | |
| Approach LOS | | D | | | E | | | C | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 29.5 | 31.9 | 10.3 | 37.6 | 20.0 | 41.5 | 22.0 | 25.9 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 6.2 | 6.5 | 5.3 | 5.7 | 4.6 | 6.5 |
| Max Green Setting (Gmax), s | 12.7 | 39.3 | 8.0 | 31.3 | 14.7 | 37.3 | 17.4 | 23.5 |
| Max Q Clear Time (g_c+I1), s | 14.8 | 15.2 | 3.4 | 15.4 | 16.7 | 23.7 | 19.4 | 18.0 |
| Green Ext Time (p_c), s | 0.0 | 11.0 | 0.0 | 4.6 | 0.0 | 12.1 | 0.0 | 1.4 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 47.9 |
| HCM 7th LOS | D |

# HCM 7th Signalized Intersection Summary
## 2: Willow Avenue & Perrin Avenue



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 449 | 255 | 333 | 246 | 210 | 107 | 273 | 1373 | 280 | 120 | 908 | 401 |
| Future Volume (veh/h) | 449 | 255 | 333 | 246 | 210 | 107 | 273 | 1373 | 280 | 120 | 908 | 401 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 473 | 268 | 351 | 259 | 221 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Cap, veh/h | 498 | 467 | 395 | 293 | 251 | 213 | 345 | 1582 | 491 | 153 | 1564 | 486 |
| Arrive On Green | 0.28 | 0.25 | 0.25 | 0.16 | 0.13 | 0.13 | 0.10 | 0.31 | 0.31 | 0.08 | 0.30 | 0.30 |
| Sat Flow, veh/h | 1810 | 1900 | 1610 | 1810 | 1900 | 1610 | 3483 | 5147 | 1598 | 1810 | 5187 | 1610 |
| Grp Volume(v), veh/h | 473 | 268 | 351 | 259 | 221 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1900 | 1610 | 1810 | 1900 | 1610 | 1742 | 1716 | 1598 | 1810 | 1729 | 1610 |
| Q Serve(g_s), s | 29.4 | 14.2 | 24.1 | 16.0 | 13.1 | 7.5 | 9.3 | 31.0 | 18.0 | 7.8 | 18.1 | 28.4 |
| Cycle Q Clear(g_c), s | 29.4 | 14.2 | 24.1 | 16.0 | 13.1 | 7.5 | 9.3 | 31.0 | 18.0 | 7.8 | 18.1 | 28.4 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 498 | 467 | 395 | 293 | 251 | 213 | 345 | 1582 | 491 | 153 | 1564 | 486 |
| V/C Ratio(X) | 0.95 | 0.57 | 0.89 | 0.88 | 0.88 | 0.53 | 0.83 | 0.91 | 0.60 | 0.82 | 0.61 | 0.87 |
| Avail Cap(c_a), veh/h | 501 | 467 | 395 | 330 | 254 | 215 | 377 | 1586 | 492 | 153 | 1564 | 486 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 40.7 | 38.0 | 41.7 | 47.0 | 48.8 | 46.4 | 50.7 | 38.2 | 33.7 | 51.6 | 34.3 | 37.9 |
| Incr Delay (d2), s/veh | 28.8 | 3.4 | 22.6 | 25.9 | 30.1 | 5.7 | 12.5 | 9.3 | 4.3 | 27.6 | 1.4 | 17.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 16.6 | 6.9 | 11.8 | 9.3 | 8.3 | 3.3 | 4.6 | 14.2 | 7.3 | 4.7 | 7.8 | 13.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 69.6 | 41.3 | 64.3 | 72.9 | 78.9 | 52.1 | 63.1 | 47.5 | 38.0 | 79.2 | 35.7 | 55.5 |
| LnGrp LOS | E | D | E | E | E | D | E | D | D | E | D | E |
| Approach Vol, veh/h | | 1092 | | | 593 | | | 2027 | | | 1504 | |
| Approach Delay, s/veh | | 60.9 | | | 71.2 | | | 48.3 | | | 44.9 | |
| Approach LOS | | E | | | E | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 16.6 | 40.2 | 36.8 | 20.9 | 16.0 | 40.9 | 23.8 | 33.8 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | 5.3 | 5.7 | 6.3 | 5.7 | 5.3 | 5.7 |
| Max Green Setting (Gmax), s | 12.4 | 33.6 | 31.7 | 15.3 | 9.7 | 35.3 | 20.9 | 26.1 |
| Max Q Clear Time (g_c+I1), s | 11.3 | 30.4 | 31.4 | 15.1 | 9.8 | 33.0 | 18.0 | 26.1 |
| Green Ext Time (p_c), s | 0.1 | 2.9 | 0.1 | 0.1 | 0.0 | 2.2 | 0.5 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 52.6 |
| HCM 7th LOS | D |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 1 | 783 | 85 | 59 | 622 | 36 | 101 | 74 | 59 | 10 | 75 | 1 |
| Future Volume (veh/h) | 1 | 783 | 85 | 59 | 622 | 36 | 101 | 74 | 59 | 10 | 75 | 1 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 1 | 833 | 90 | 63 | 662 | 38 | 107 | 79 | 63 | 11 | 80 | 1 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 80 | 986 | 106 | 135 | 943 | 52 | 233 | 128 | 84 | 108 | 361 | 4 |
| Arrive On Green | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 |
| Sat Flow, veh/h | 0 | 1659 | 179 | 82 | 1585 | 87 | 580 | 619 | 406 | 94 | 1748 | 20 |
| Grp Volume(v), veh/h | 924 | 0 | 0 | 763 | 0 | 0 | 249 | 0 | 0 | 92 | 0 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1838 | 0 | 0 | 1755 | 0 | 0 | 1605 | 0 | 0 | 1863 | 0 | 0 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 18.5 | 0.0 | 0.0 | 12.8 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 |
| Prop In Lane | 0.00 | | 0.10 | 0.08 | | 0.05 | 0.43 | | 0.25 | 0.12 | | 0.01 |
| Lane Grp Cap(c), veh/h | 1172 | 0 | 0 | 1130 | 0 | 0 | 445 | 0 | 0 | 474 | 0 | 0 |
| V/C Ratio(X) | 0.79 | 0.00 | 0.00 | 0.68 | 0.00 | 0.00 | 0.56 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h | 1601 | 0 | 0 | 1506 | 0 | 0 | 758 | 0 | 0 | 835 | 0 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh | 7.5 | 0.0 | 0.0 | 6.3 | 0.0 | 0.0 | 16.7 | 0.0 | 0.0 | 15.0 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 1.9 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 8.9 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 2.2 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 9.4 | 0.0 | 0.0 | 7.0 | 0.0 | 0.0 | 17.8 | 0.0 | 0.0 | 15.2 | 0.0 | 0.0 |
| LnGrp LOS | A | | | A | | | B | | | B | | |
| Approach Vol, veh/h | | 924 | | | 763 | | | 249 | | | 92 | |
| Approach Delay, s/veh | | 9.4 | | | 7.0 | | | 17.8 | | | 15.2 | |
| Approach LOS | | A | | | A | | | B | | | B | |

| Timer - Assigned Phs | 2 | 4 | 6 | 8 |
|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.9 | 31.4 | 13.9 | 31.4 |
| Change Period (Y+Rc), s | 4.5 | 4.5 | 4.5 | 4.5 |
| Max Green Setting (Gmax), s | 18.5 | 37.5 | 18.5 | 37.5 |
| Max Q Clear Time (g_c+I1), s | 8.5 | 20.5 | 3.8 | 14.8 |
| Green Ext Time (p_c), s | 1.0 | 6.4 | 0.3 | 6.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 9.8 |
| HCM 7th LOS | A |

# HCM 7th Signalized Intersection Summary
## 4: Minnewawa Avenue & Behymer Avenue





| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 17 | 497 | 180 | 35 | 505 | 223 | 260 | 628 | 64 | 226 | 310 | 15 |
| Future Volume (veh/h) | 17 | 497 | 180 | 35 | 505 | 223 | 260 | 628 | 64 | 226 | 310 | 15 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 18 | 534 | 194 | 38 | 543 | 240 | 280 | 675 | 69 | 243 | 333 | 16 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 114 | 631 | 535 | 117 | 641 | 543 | 580 | 727 | 616 | 272 | 382 | 18 |
| Arrive On Green | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.33 | 0.39 | 0.39 | 0.15 | 0.22 | 0.22 |
| Sat Flow, veh/h | 691 | 1870 | 1585 | 738 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 1756 | 84 |
| Grp Volume(v), veh/h | 18 | 534 | 194 | 38 | 543 | 240 | 280 | 675 | 69 | 243 | 0 | 349 |
| Grp Sat Flow(s),veh/h/ln | 691 | 1870 | 1585 | 738 | 1900 | 1610 | 1781 | 1870 | 1585 | 1767 | 0 | 1840 |
| Q Serve(g_s), s | 2.8 | 29.8 | 10.4 | 5.7 | 29.9 | 13.1 | 14.2 | 38.9 | 3.1 | 15.2 | 0.0 | 20.6 |
| Cycle Q Clear(g_c), s | 32.7 | 29.8 | 10.4 | 35.5 | 29.9 | 13.1 | 14.2 | 38.9 | 3.1 | 15.2 | 0.0 | 20.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.05 |
| Lane Grp Cap(c), veh/h | 114 | 631 | 535 | 117 | 641 | 543 | 580 | 727 | 616 | 272 | 0 | 400 |
| V/C Ratio(X) | 0.16 | 0.85 | 0.36 | 0.32 | 0.85 | 0.44 | 0.48 | 0.93 | 0.11 | 0.89 | 0.00 | 0.87 |
| Avail Cap(c_a), veh/h | 117 | 640 | 542 | 121 | 650 | 551 | 580 | 806 | 683 | 306 | 0 | 629 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 49.8 | 34.6 | 28.2 | 51.1 | 34.6 | 29.1 | 30.4 | 32.9 | 22.0 | 46.7 | 0.0 | 42.5 |
| Incr Delay (d2), s/veh | 0.6 | 10.2 | 0.4 | 1.6 | 10.1 | 0.6 | 0.6 | 16.0 | 0.1 | 24.6 | 0.0 | 8.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.5 | 14.8 | 3.9 | 1.1 | 14.9 | 4.9 | 6.2 | 20.4 | 1.2 | 8.5 | 0.0 | 10.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 50.4 | 44.8 | 28.6 | 52.6 | 44.7 | 29.6 | 31.0 | 48.9 | 22.1 | 71.4 | 0.0 | 50.6 |
| LnGrp LOS | D | D | C | D | D | C | C | D | C | E | | D |
| Approach Vol, veh/h | | 746 | | | 821 | | | 1024 | | | 592 | |
| Approach Delay, s/veh | | 40.7 | | | 40.7 | | | 42.2 | | | 59.1 | |
| Approach LOS | | D | | | D | | | D | | | E | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 21.8 | 48.3 | | 42.5 | 41.1 | 29.0 | | 42.5 | | | | |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 19.5 | 48.5 | | 38.5 | 29.5 | 38.5 | | 38.5 | | | | |
| Max Q Clear Time (g_c+I1), s | 17.2 | 40.9 | | 34.7 | 16.2 | 22.6 | | 37.5 | | | | |
| Green Ext Time (p_c), s | 0.2 | 2.9 | | 1.5 | 0.7 | 1.9 | | 0.5 | | | | |

| Intersection Summary | | |
|---|---|---|
| HCM 7th Control Delay, s/veh | 44.6 | |
| HCM 7th LOS | D | |

HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project
5: Minnewawa Avenue & Perrin Avenue Cumulative Year WP_PM Peak Hour MIT



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 129 | 179 | 149 | 23 | 177 | 5 | 161 | 1100 | 18 | 4 | 616 | 111 |
| Future Volume (veh/h) | 129 | 179 | 149 | 23 | 177 | 5 | 161 | 1100 | 18 | 4 | 616 | 111 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 136 | 188 | 157 | 24 | 186 | 5 | 169 | 1158 | 19 | 4 | 648 | 117 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 174 | 231 | 193 | 49 | 317 | 9 | 215 | 1491 | 24 | 10 | 899 | 162 |
| Arrive On Green | 0.10 | 0.24 | 0.24 | 0.03 | 0.17 | 0.17 | 0.12 | 0.42 | 0.42 | 0.01 | 0.30 | 0.30 |
| Sat Flow, veh/h | 1781 | 942 | 787 | 1781 | 1813 | 49 | 1781 | 3578 | 59 | 1767 | 2984 | 538 |
| Grp Volume(v), veh/h | 136 | 0 | 345 | 24 | 0 | 191 | 169 | 575 | 602 | 4 | 382 | 383 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 0 | 1729 | 1781 | 0 | 1862 | 1781 | 1777 | 1860 | 1767 | 1763 | 1759 |
| Q Serve(g_s), s | 4.4 | 0.0 | 11.1 | 0.8 | 0.0 | 5.6 | 5.4 | 16.4 | 16.5 | 0.1 | 11.4 | 11.4 |
| Cycle Q Clear(g_c), s | 4.4 | 0.0 | 11.1 | 0.8 | 0.0 | 5.6 | 5.4 | 16.4 | 16.5 | 0.1 | 11.4 | 11.4 |
| Prop In Lane | 1.00 | | 0.46 | 1.00 | | 0.03 | 1.00 | | 0.03 | 1.00 | | 0.31 |
| Lane Grp Cap(c), veh/h | 174 | 0 | 423 | 49 | 0 | 325 | 215 | 740 | 775 | 10 | 531 | 530 |
| V/C Ratio(X) | 0.78 | 0.00 | 0.81 | 0.49 | 0.00 | 0.59 | 0.79 | 0.78 | 0.78 | 0.42 | 0.72 | 0.72 |
| Avail Cap(c_a), veh/h | 257 | 0 | 628 | 154 | 0 | 569 | 348 | 920 | 962 | 150 | 718 | 716 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 26.0 | 0.0 | 21.0 | 28.2 | 0.0 | 22.4 | 25.2 | 14.8 | 14.8 | 29.2 | 18.4 | 18.4 |
| Incr Delay (d2), s/veh | 8.9 | 0.0 | 5.2 | 7.3 | 0.0 | 1.7 | 6.2 | 3.4 | 3.2 | 27.0 | 2.3 | 2.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.2 | 0.0 | 4.7 | 0.4 | 0.0 | 2.4 | 2.5 | 6.3 | 6.6 | 0.1 | 4.5 | 4.5 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 34.8 | 0.0 | 26.2 | 35.6 | 0.0 | 24.1 | 31.4 | 18.2 | 18.1 | 56.2 | 20.7 | 20.7 |
| LnGrp LOS | C | | C | D | | C | C | B | B | E | C | C |
| Approach Vol, veh/h | | 481 | | | 215 | | | 1346 | | | 769 | |
| Approach Delay, s/veh | | 28.6 | | | 25.3 | | | 19.8 | | | 20.9 | |
| Approach LOS | | C | | | C | | | B | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 4.8 | 29.1 | 6.1 | 18.9 | 11.6 | 22.3 | 10.3 | 14.8 |
| Change Period (Y+Rc), s | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| Max Green Setting (Gmax), s | 5.0 | 30.5 | 5.1 | 21.4 | 11.5 | 24.0 | 8.5 | 18.0 |
| Max Q Clear Time (g_c+I1), s | 2.1 | 18.5 | 2.8 | 13.1 | 7.4 | 13.4 | 6.4 | 7.6 |
| Green Ext Time (p_c), s | 0.0 | 6.1 | 0.0 | 1.3 | 0.2 | 3.6 | 0.1 | 0.7 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 22.0 |
| HCM 7th LOS | C |

# HCM 7th Signalized Intersection Summary De Young Properties Peach and Behymer Project

## 6: Minnewawa Avenue & Shepherd Avenue

Cumulative Year WP_PM Peak Hour MIT



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 322 | 511 | 441 | 48 | 383 | 329 | 473 | 1097 | 90 | 199 | 692 | 230 |
| Future Volume (veh/h) | 322 | 511 | 441 | 48 | 383 | 329 | 473 | 1097 | 90 | 199 | 692 | 230 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 1155 | 95 | 209 | 728 | 242 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 |
| Cap, veh/h | 348 | 797 | 709 | 215 | 593 | 466 | 758 | 1167 | 96 | 222 | 906 | 404 |
| Arrive On Green | 0.19 | 0.22 | 0.22 | 0.12 | 0.16 | 0.16 | 0.22 | 0.35 | 0.35 | 0.13 | 0.26 | 0.26 |
| Sat Flow, veh/h | 1810 | 3610 | 1610 | 1810 | 3610 | 1610 | 3456 | 3325 | 273 | 1767 | 3526 | 1572 |
| Grp Volume(v), veh/h | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 617 | 633 | 209 | 728 | 242 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1805 | 1610 | 1810 | 1805 | 1610 | 1728 | 1777 | 1821 | 1767 | 1763 | 1572 |
| Q Serve(g_s), s | 22.3 | 16.3 | 0.9 | 3.1 | 12.6 | 7.4 | 15.7 | 41.3 | 41.4 | 14.0 | 23.1 | 10.2 |
| Cycle Q Clear(g_c), s | 22.3 | 16.3 | 0.9 | 3.1 | 12.6 | 7.4 | 15.7 | 41.3 | 41.4 | 14.0 | 23.1 | 10.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.15 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 348 | 797 | 709 | 215 | 593 | 466 | 758 | 624 | 639 | 222 | 906 | 404 |
| V/C Ratio(X) | 0.97 | 0.68 | 0.65 | 0.24 | 0.68 | 0.74 | 0.66 | 0.99 | 0.99 | 0.94 | 0.80 | 0.60 |
| Avail Cap(c_a), veh/h | 348 | 1267 | 918 | 215 | 905 | 606 | 758 | 624 | 639 | 222 | 1061 | 473 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 48.0 | 42.7 | 26.3 | 47.8 | 47.0 | 16.1 | 42.6 | 38.6 | 38.6 | 51.9 | 41.6 | 15.4 |
| Incr Delay (d2), s/veh | 41.2 | 1.5 | 1.6 | 0.2 | 2.3 | 4.8 | 1.7 | 33.1 | 33.2 | 44.3 | 4.4 | 2.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 8.6 | 7.2 | 10.0 | 1.3 | 5.6 | 4.8 | 6.7 | 22.7 | 23.4 | 8.9 | 10.6 | 3.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 89.2 | 44.2 | 28.0 | 48.0 | 49.3 | 20.9 | 44.3 | 71.7 | 71.8 | 96.2 | 46.0 | 17.6 |
| LnGrp LOS | F | D | C | D | D | C | D | E | E | F | D | B |
| Approach Vol, veh/h | | 1341 | | | 800 | | | 1748 | | | 1179 | |
| Approach Delay, s/veh | | 50.0 | | | 36.9 | | | 63.9 | | | 49.1 | |
| Approach LOS | | D | | | D | | | E | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 30.2 | 36.8 | 27.0 | 25.7 | 19.0 | 48.0 | 20.2 | 32.4 |
| Change Period (Y+Rc), s | 4.0 | 6.0 | 4.0 | 6.0 | 4.0 | 6.0 | 6.0 | * 6 |
| Max Green Setting (Gmax), s | 21.6 | 36.0 | 23.0 | 30.0 | 15.0 | 42.0 | 11.0 | * 42 |
| Max Q Clear Time (g_c+I1), s | 17.7 | 25.1 | 24.3 | 14.6 | 16.0 | 43.4 | 5.1 | 18.3 |
| Green Ext Time (p_c), s | 0.4 | 5.6 | 0.0 | 5.1 | 0.0 | 0.0 | 0.0 | 8.1 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 52.5 |
| HCM 7th LOS | D |

**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

# APPENDIX F

# QUEUING ANALYSIS WORKSHEETS

# Queues
## 1: Willow Avenue & Behymer Avenue



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 82 | 134 | 188 | 93 | 289 | 106 | 714 | 53 | 70 | 630 | 56 |
| v/c Ratio | 0.36 | 0.28 | 0.35 | 0.37 | 0.62 | 0.43 | 0.48 | 0.09 | 0.32 | 0.45 | 0.10 |
| Control Delay (s/veh) | 42.5 | 30.1 | 6.9 | 41.2 | 32.6 | 42.8 | 26.7 | 0.3 | 42.3 | 27.6 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 42.5 | 30.1 | 6.9 | 41.2 | 32.6 | 42.8 | 26.7 | 0.3 | 42.3 | 27.6 | 0.4 |
| Queue Length 50th (ft) | 41 | 57 | 0 | 46 | 117 | 53 | 114 | 0 | 35 | 102 | 0 |
| Queue Length 95th (ft) | 96 | 124 | 54 | 103 | 235 | 115 | 177 | 0 | 85 | 163 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 348 | 625 | 655 | 393 | 609 | 375 | 2860 | 952 | 371 | 2833 | 944 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.24 | 0.21 | 0.29 | 0.24 | 0.47 | 0.28 | 0.25 | 0.06 | 0.19 | 0.22 | 0.06 |

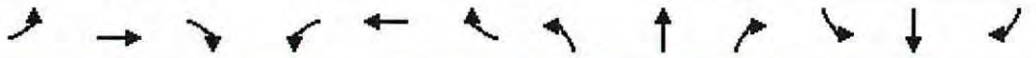
Intersection Summary



| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 177 | 172 | 91 | 720 | 822 | 122 |
| v/c Ratio | 0.42 | 0.34 | 0.18 | 0.25 | 0.43 | 0.18 |
| Control Delay (s/veh) | 24.3 | 6.0 | 27.0 | 6.6 | 15.3 | 4.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 24.3 | 6.0 | 27.0 | 6.6 | 15.3 | 4.2 |
| Queue Length 50th (ft) | 59 | 0 | 16 | 39 | 82 | 0 |
| Queue Length 95th (ft) | 115 | 42 | 39 | 69 | 128 | 30 |
| Internal Link Dist (ft) | 1383 | | | 1272 | 2582 | |
| Turn Bay Length (ft) | 230 | 230 | 235 | | | 130 |
| Base Capacity (vph) | 796 | 807 | 857 | 3247 | 2689 | 894 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.22 | 0.21 | 0.11 | 0.22 | 0.31 | 0.14 |

Intersection Summary

Queues
De Young Properties Peach and Benyamel Project
6: Minnewawa Avenue & Shepherd Avenue
Existing Year WP_AM Peak Hour



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 37 | 346 | 139 | 15 | 288 | 161 | 130 | 176 | 20 | 132 | 240 | 37 |
| v/c Ratio | 0.13 | 0.29 | 0.23 | 0.05 | 0.59 | 0.33 | 0.41 | 0.42 | 0.05 | 0.42 | 0.57 | 0.09 |
| Control Delay (s/veh) | 37.5 | 20.3 | 10.0 | 37.9 | 32.1 | 14.7 | 38.1 | 31.2 | 0.2 | 38.0 | 34.2 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 37.5 | 20.3 | 10.0 | 37.9 | 32.1 | 14.7 | 38.1 | 31.2 | 0.2 | 38.0 | 34.2 | 0.4 |
| Queue Length 50th (ft) | 16 | 53 | 13 | 7 | 125 | 27 | 60 | 76 | 0 | 62 | 107 | 0 |
| Queue Length 95th (ft) | 55 | 136 | 71 | 29 | 247 | 88 | 139 | 162 | 0 | 140 | 217 | 0 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 230 | | 45 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 554 | 1834 | 865 | 554 | 944 | 849 | 543 | 926 | 833 | 538 | 917 | 825 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.07 | 0.19 | 0.16 | 0.03 | 0.31 | 0.19 | 0.24 | 0.19 | 0.02 | 0.25 | 0.26 | 0.04 |

Intersection Summary

# Queues
## 1: Willow Avenue & Behymer Avenue



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 24 | 127 | 141 | 109 | 308 | 138 | 850 | 140 | 120 | 651 | 47 |
| v/c Ratio | 0.13 | 0.38 | 0.35 | 0.48 | 0.62 | 0.57 | 0.52 | 0.23 | 0.51 | 0.40 | 0.08 |
| Control Delay (s/veh) | 41.9 | 36.1 | 9.0 | 44.1 | 31.6 | 46.0 | 25.2 | 5.6 | 44.8 | 24.2 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 41.9 | 36.1 | 9.0 | 44.1 | 31.6 | 46.0 | 25.2 | 5.6 | 44.8 | 24.2 | 0.3 |
| Queue Length 50th (ft) | 11 | 57 | 0 | 50 | 105 | 64 | 120 | 0 | 55 | 89 | 0 |
| Queue Length 95th (ft) | 39 | 124 | 45 | 114 | 247 | 140 | 195 | 36 | 123 | 147 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 313 | 562 | 576 | 357 | 566 | 337 | 2593 | 877 | 341 | 2619 | 885 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.08 | 0.23 | 0.24 | 0.31 | 0.54 | 0.41 | 0.33 | 0.16 | 0.35 | 0.25 | 0.05 |

Intersection Summary

Queues
2: Willow Avenue & Perrin Avenue

De Young Properties Peach and Behymer Project
Existing Year WP_PM Peak Hour



| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 143 | 203 | 209 | 946 | 734 | 107 |
| v/c Ratio | 0.39 | 0.41 | 0.41 | 0.31 | 0.42 | 0.17 |
| Control Delay (s/veh) | 24.8 | 6.7 | 27.5 | 6.5 | 16.3 | 4.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 24.8 | 6.7 | 27.5 | 6.5 | 16.3 | 4.6 |
| Queue Length 50th (ft) | 45 | 0 | 36 | 52 | 70 | 0 |
| Queue Length 95th (ft) | 98 | 47 | 72 | 88 | 119 | 30 |
| Internal Link Dist (ft) | 1383 | | | 1272 | 2582 | |
| Turn Bay Length (ft) | 230 | 230 | 235 | | | 130 |
| Base Capacity (vph) | 721 | 765 | 789 | 3050 | 2475 | 825 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.20 | 0.27 | 0.26 | 0.31 | 0.30 | 0.13 |

Intersection Summary

# Queues
## 6: Minnewawa Avenue & Shepherd Avenue

De Young Properties Peach and Behymer Project
Existing Year WP_PM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 46 | 311 | 117 | 6 | 253 | 129 | 136 | 248 | 25 | 72 | 198 | 38 |
| v/c Ratio | 0.15 | 0.27 | 0.20 | 0.02 | 0.54 | 0.28 | 0.42 | 0.45 | 0.05 | 0.24 | 0.49 | 0.09 |
| Control Delay (s/veh) | 34.4 | 19.6 | 8.5 | 34.3 | 30.5 | 11.9 | 35.4 | 28.3 | 0.2 | 34.9 | 31.8 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 34.4 | 19.6 | 8.5 | 34.3 | 30.5 | 11.9 | 35.4 | 28.3 | 0.2 | 34.9 | 31.8 | 0.4 |
| Queue Length 50th (ft) | 19 | 45 | 7 | 2 | 105 | 14 | 59 | 105 | 0 | 30 | 82 | 0 |
| Queue Length 95th (ft) | 60 | 117 | 53 | 15 | 206 | 62 | 132 | 197 | 0 | 83 | 170 | 0 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 230 | | 45 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 574 | 1876 | 883 | 574 | 978 | 876 | 563 | 959 | 860 | 557 | 950 | 852 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.08 | 0.17 | 0.13 | 0.01 | 0.26 | 0.15 | 0.24 | 0.26 | 0.03 | 0.13 | 0.21 | 0.04 |

Intersection Summary

# Queues
## 1: Willow Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Near Term NP_AM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 84 | 159 | 228 | 160 | 366 | 154 | 752 | 100 | 91 | 703 | 57 |
| v/c Ratio | 0.44 | 0.41 | 0.45 | 0.65 | 0.75 | 0.64 | 0.46 | 0.16 | 0.46 | 0.54 | 0.11 |
| Control Delay (s/veh) | 48.0 | 35.3 | 7.7 | 51.5 | 40.5 | 51.8 | 27.5 | 2.5 | 48.3 | 31.1 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 48.0 | 35.3 | 7.7 | 51.5 | 40.5 | 51.8 | 27.5 | 2.5 | 48.3 | 31.1 | 0.4 |
| Queue Length 50th (ft) | 47 | 78 | 0 | 89 | 176 | 86 | 132 | 0 | 51 | 130 | 0 |
| Queue Length 95th (ft) | 100 | 152 | 61 | 169 | #373 | 165 | 193 | 17 | 106 | 183 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 281 | 504 | 594 | 317 | 500 | 302 | 2324 | 800 | 299 | 2302 | 794 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.30 | 0.32 | 0.38 | 0.50 | 0.73 | 0.51 | 0.32 | 0.13 | 0.30 | 0.31 | 0.07 |

Intersection Summary

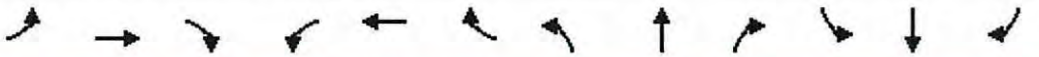
# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
2: Willow Avenue & Perrin Avenue

De Young Properties Peach and Behymer Project
Near Term NP_AM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 207 | 72 | 197 | 107 | 98 | 32 | 125 | 782 | 81 | 24 | 916 | 188 |
| v/c Ratio | 0.55 | 0.19 | 0.41 | 0.38 | 0.35 | 0.09 | 0.37 | 0.35 | 0.11 | 0.14 | 0.57 | 0.31 |
| Control Delay (s/veh) | 39.6 | 33.8 | 8.1 | 42.0 | 42.1 | 0.5 | 45.8 | 20.4 | 1.6 | 46.2 | 28.0 | 7.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 39.6 | 33.8 | 8.1 | 42.0 | 42.1 | 0.5 | 45.8 | 20.4 | 1.6 | 46.2 | 28.0 | 7.9 |
| Queue Length 50th (ft) | 104 | 34 | 0 | 54 | 50 | 0 | 34 | 97 | 0 | 13 | 158 | 11 |
| Queue Length 95th (ft) | 207 | 83 | 59 | 125 | 117 | 0 | 77 | 199 | 11 | 44 | 243 | 65 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 230 | | 230 | 100 | | 100 | 235 | | 145 | 250 | | 130 |
| Base Capacity (vph) | 568 | 542 | 600 | 477 | 441 | 471 | 359 | 2403 | 814 | 168 | 2259 | 792 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.36 | 0.13 | 0.33 | 0.22 | 0.22 | 0.07 | 0.35 | 0.33 | 0.10 | 0.14 | 0.41 | 0.24 |

Intersection Summary



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 112 | 436 | 288 | 47 | 368 | 227 | 217 | 335 | 39 | 203 | 589 | 155 |
| v/c Ratio | 0.56 | 0.42 | 0.51 | 0.27 | 0.80 | 0.50 | 0.80 | 0.59 | 0.07 | 0.77 | 1.05 | 0.29 |
| Control Delay (s/veh) | 60.6 | 34.5 | 20.7 | 56.0 | 54.8 | 25.5 | 69.4 | 40.7 | 0.3 | 67.7 | 93.1 | 16.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 60.6 | 34.5 | 20.7 | 56.0 | 54.8 | 25.5 | 69.4 | 40.7 | 0.3 | 67.7 | 93.1 | 16.5 |
| Queue Length 50th (ft) | 81 | 143 | 91 | 33 | 254 | 83 | 156 | 213 | 0 | 146 | ~496 | 35 |
| Queue Length 95th (ft) | 148 | 193 | 179 | 77 | 392 | 170 | #282 | 353 | 0 | #249 | #807 | 99 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 235 | | 50 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 328 | 1117 | 595 | 328 | 559 | 539 | 328 | 568 | 547 | 328 | 559 | 539 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.34 | 0.39 | 0.48 | 0.14 | 0.66 | 0.42 | 0.66 | 0.59 | 0.07 | 0.62 | 1.05 | 0.29 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

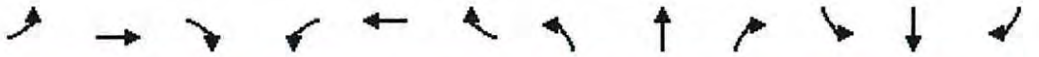
# Queues
## 1: Willow Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Near Term NP_PM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 23 | 158 | 196 | 193 | 354 | 189 | 854 | 221 | 145 | 657 | 43 |
| v/c Ratio | 0.14 | 0.54 | 0.48 | 0.71 | 0.63 | 0.71 | 0.54 | 0.36 | 0.62 | 0.44 | 0.08 |
| Control Delay (s/veh) | 44.7 | 43.4 | 9.7 | 53.3 | 32.6 | 54.0 | 27.8 | 8.9 | 51.0 | 27.4 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 44.7 | 43.4 | 9.7 | 53.3 | 32.6 | 54.0 | 27.8 | 8.9 | 51.0 | 27.4 | 0.3 |
| Queue Length 50th (ft) | 12 | 82 | 0 | 100 | 134 | 99 | 146 | 18 | 77 | 113 | 0 |
| Queue Length 95th (ft) | 41 | 162 | 60 | #229 | #343 | #233 | 213 | 79 | 160 | 161 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 282 | 506 | 573 | 321 | 568 | 304 | 2336 | 822 | 307 | 2360 | 812 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.08 | 0.31 | 0.34 | 0.60 | 0.62 | 0.62 | 0.37 | 0.27 | 0.47 | 0.28 | 0.05 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 211 | 131 | 257 | 153 | 121 | 58 | 251 | 1047 | 160 | 59 | 800 | 180 |
| v/c Ratio | 0.82 | 0.40 | 0.55 | 0.89 | 0.37 | 0.14 | 0.76 | 0.54 | 0.23 | 0.35 | 0.52 | 0.30 |
| Control Delay (s/veh) | 62.0 | 23.8 | 9.9 | 78.4 | 23.3 | 0.7 | 43.8 | 15.9 | 3.5 | 30.6 | 17.2 | 4.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 62.0 | 23.8 | 9.9 | 78.4 | 23.3 | 0.7 | 43.8 | 15.9 | 3.5 | 30.6 | 17.2 | 4.6 |
| Queue Length 50th (ft) | ~91 | 39 | 9 | 51 | 36 | 0 | 42 | 103 | 0 | 19 | 74 | 0 |
| Queue Length 95th (ft) | #219 | 80 | 60 | #159 | 75 | 0 | #105 | 161 | 30 | 52 | 119 | 37 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 230 | | 230 | 100 | | 100 | 235 | | 145 | 250 | | 130 |
| Base Capacity (vph) | 256 | 650 | 700 | 171 | 650 | 670 | 329 | 1925 | 711 | 171 | 1775 | 671 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.82 | 0.20 | 0.37 | 0.89 | 0.19 | 0.09 | 0.76 | 0.54 | 0.23 | 0.35 | 0.45 | 0.27 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
De Young Properties Peach and Behymer Project
6: Minnewawa Avenue & Shepherd Avenue
Near Term NP_PM Peak Hour



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 199 | 407 | 273 | 33 | 336 | 216 | 296 | 644 | 55 | 146 | 480 | 160 |
| v/c Ratio | 0.78 | 0.34 | 0.44 | 0.20 | 0.79 | 0.50 | 0.94 | 1.02 | 0.09 | 0.67 | 0.91 | 0.31 |
| Control Delay (s/veh) | 71.8 | 31.9 | 17.2 | 56.8 | 57.6 | 26.7 | 88.2 | 81.0 | 2.0 | 65.9 | 64.4 | 18.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 71.8 | 31.9 | 17.2 | 56.8 | 57.6 | 26.7 | 88.2 | 81.0 | 2.0 | 65.9 | 64.4 | 18.0 |
| Queue Length 50th (ft) | 150 | 134 | 79 | 24 | 245 | 82 | 230 | ~530 | 0 | 110 | 361 | 40 |
| Queue Length 95th (ft) | 246 | 179 | 159 | 61 | 364 | 163 | #452 | #936 | 9 | 186 | #633 | 106 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 235 | | 50 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 320 | 1192 | 629 | 320 | 546 | 529 | 314 | 632 | 598 | 311 | 530 | 516 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.62 | 0.34 | 0.43 | 0.10 | 0.62 | 0.41 | 0.94 | 1.02 | 0.09 | 0.47 | 0.91 | 0.31 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queues
## 1: Willow Avenue & Behymer Avenue



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 84 | 160 | 228 | 220 | 378 | 154 | 752 | 121 | 93 | 703 | 57 |
| v/c Ratio | 0.44 | 0.45 | 0.47 | 0.75 | 0.76 | 0.65 | 0.47 | 0.20 | 0.48 | 0.54 | 0.11 |
| Control Delay (s/veh) | 48.6 | 37.6 | 8.2 | 55.5 | 41.0 | 52.8 | 27.8 | 4.3 | 48.9 | 31.3 | 0.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 48.6 | 37.6 | 8.2 | 55.5 | 41.0 | 52.8 | 27.8 | 4.3 | 48.9 | 31.3 | 0.5 |
| Queue Length 50th (ft) | 47 | 82 | 0 | 123 | 185 | 86 | 133 | 0 | 52 | 130 | 0 |
| Queue Length 95th (ft) | 101 | 155 | 62 | #275 | #399 | 167 | 194 | 31 | 109 | 183 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 274 | 493 | 586 | 310 | 498 | 295 | 2272 | 786 | 292 | 2251 | 779 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.31 | 0.32 | 0.39 | 0.71 | 0.76 | 0.52 | 0.33 | 0.15 | 0.32 | 0.31 | 0.07 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
De Young Properties Peach and Behymer Project
2: Willow Avenue & Perrin Avenue
Near Term WP_AM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 214 | 72 | 197 | 107 | 98 | 32 | 125 | 796 | 81 | 24 | 957 | 207 |
| v/c Ratio | 0.57 | 0.19 | 0.41 | 0.39 | 0.36 | 0.09 | 0.38 | 0.35 | 0.10 | 0.15 | 0.59 | 0.33 |
| Control Delay (s/veh) | 40.5 | 34.3 | 8.1 | 42.9 | 43.0 | 0.5 | 46.9 | 20.4 | 1.5 | 47.1 | 28.2 | 8.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 40.5 | 34.3 | 8.1 | 42.9 | 43.0 | 0.5 | 46.9 | 20.4 | 1.5 | 47.1 | 28.2 | 8.4 |
| Queue Length 50th (ft) | 111 | 35 | 0 | 56 | 52 | 0 | 35 | 101 | 0 | 13 | 169 | 15 |
| Queue Length 95th (ft) | 214 | 83 | 59 | 125 | 117 | 0 | 77 | 202 | 11 | 44 | 256 | 74 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 230 | | 230 | 100 | | 100 | 235 | | 145 | 250 | | 130 |
| Base Capacity (vph) | 557 | 532 | 592 | 468 | 432 | 465 | 352 | 2380 | 808 | 165 | 2216 | 784 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.38 | 0.14 | 0.33 | 0.23 | 0.23 | 0.07 | 0.36 | 0.33 | 0.10 | 0.15 | 0.43 | 0.26 |

Intersection Summary

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 112 | 436 | 288 | 47 | 368 | 239 | 217 | 346 | 39 | 236 | 620 | 155 |
| v/c Ratio | 0.56 | 0.42 | 0.51 | 0.27 | 0.80 | 0.52 | 0.80 | 0.64 | 0.07 | 0.83 | 1.11 | 0.29 |
| Control Delay (s/veh) | 60.6 | 34.5 | 20.7 | 56.0 | 54.8 | 26.9 | 69.4 | 43.2 | 0.3 | 70.5 | 110.2 | 16.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 60.6 | 34.5 | 20.7 | 56.0 | 54.8 | 26.9 | 69.4 | 43.2 | 0.3 | 70.5 | 110.2 | 16.5 |
| Queue Length 50th (ft) | 81 | 143 | 91 | 33 | 254 | 91 | 156 | 229 | 0 | 169 | ~544 | 35 |
| Queue Length 95th (ft) | 148 | 193 | 179 | 77 | 392 | 184 | #282 | 366 | 0 | #321 | #863 | 99 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 235 | | 50 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 328 | 1117 | 595 | 328 | 559 | 539 | 328 | 559 | 539 | 328 | 559 | 539 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.34 | 0.39 | 0.48 | 0.14 | 0.66 | 0.44 | 0.66 | 0.62 | 0.07 | 0.72 | 1.11 | 0.29 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queues
## 1: Willow Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Near Term WP_PM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 23 | 163 | 196 | 236 | 363 | 189 | 854 | 292 | 153 | 657 | 43 |
| v/c Ratio | 0.15 | 0.57 | 0.48 | 0.77 | 0.62 | 0.73 | 0.55 | 0.45 | 0.66 | 0.44 | 0.08 |
| Control Delay (s/veh) | 45.7 | 45.2 | 9.7 | 56.8 | 32.4 | 57.0 | 28.8 | 9.2 | 54.0 | 28.1 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 45.7 | 45.2 | 9.7 | 56.8 | 32.4 | 57.0 | 28.8 | 9.2 | 54.0 | 28.1 | 0.3 |
| Queue Length 50th (ft) | 12 | 87 | 0 | 129 | 141 | 101 | 150 | 25 | 83 | 114 | 0 |
| Queue Length 95th (ft) | 42 | 168 | 60 | #309 | #358 | #239 | 215 | 98 | 170 | 162 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 270 | 484 | 556 | 307 | 590 | 290 | 2233 | 826 | 293 | 2255 | 782 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.09 | 0.34 | 0.35 | 0.77 | 0.62 | 0.65 | 0.38 | 0.35 | 0.52 | 0.29 | 0.05 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
De Young Properties Peach and Benjamin Project
2: Willow Avenue & Perrin Avenue
Near Term WP_PM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 234 | 131 | 257 | 153 | 121 | 58 | 251 | 1094 | 160 | 59 | 827 | 194 |
| v/c Ratio | 0.92 | 0.40 | 0.56 | 0.89 | 0.37 | 0.14 | 0.77 | 0.57 | 0.22 | 0.35 | 0.54 | 0.32 |
| Control Delay (s/veh) | 76.6 | 23.8 | 10.1 | 78.9 | 23.3 | 0.7 | 43.9 | 16.2 | 3.5 | 30.7 | 17.4 | 4.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 76.6 | 23.8 | 10.1 | 78.9 | 23.3 | 0.7 | 43.9 | 16.2 | 3.5 | 30.7 | 17.4 | 4.6 |
| Queue Length 50th (ft) | ~108 | 39 | 10 | 51 | 36 | 0 | 42 | 109 | 0 | 19 | 77 | 0 |
| Queue Length 95th (ft) | #243 | 80 | 61 | #159 | 75 | 0 | #106 | 170 | 30 | 52 | 124 | 38 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 230 | | 230 | 100 | | 100 | 235 | | 145 | 250 | | 130 |
| Base Capacity (vph) | 255 | 648 | 697 | 171 | 648 | 669 | 328 | 1929 | 712 | 171 | 1770 | 679 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.92 | 0.20 | 0.37 | 0.89 | 0.19 | 0.09 | 0.77 | 0.57 | 0.22 | 0.35 | 0.47 | 0.29 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
De Young Properties Peach and Behymer Project
6: Minnewawa Avenue & Shepherd Avenue
Near Term WP_PM Peak Hour



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 199 | 407 | 273 | 33 | 336 | 253 | 296 | 677 | 55 | 167 | 500 | 160 |
| v/c Ratio | 0.78 | 0.34 | 0.44 | 0.20 | 0.79 | 0.58 | 0.94 | 1.09 | 0.09 | 0.72 | 0.94 | 0.31 |
| Control Delay (s/veh) | 71.8 | 31.9 | 17.2 | 56.8 | 57.6 | 30.6 | 88.2 | 102.9 | 2.0 | 68.5 | 70.5 | 18.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 71.8 | 31.9 | 17.2 | 56.8 | 57.6 | 30.6 | 88.2 | 102.9 | 2.0 | 68.5 | 70.5 | 18.0 |
| Queue Length 50th (ft) | 150 | 134 | 79 | 24 | 245 | 107 | 230 | ~601 | 0 | 126 | 381 | 40 |
| Queue Length 95th (ft) | 246 | 179 | 159 | 61 | 364 | 200 | #452 | #995 | 9 | 210 | #672 | 106 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 235 | | 50 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 320 | 1192 | 629 | 320 | 546 | 532 | 314 | 620 | 587 | 311 | 530 | 516 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.62 | 0.34 | 0.43 | 0.10 | 0.62 | 0.48 | 0.94 | 1.09 | 0.09 | 0.54 | 0.94 | 0.31 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
1: Willow Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Cumulative Year NP_AM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 87 | 229 | 275 | 564 | 638 | 199 | 808 | 273 | 153 | 941 | 59 |
| v/c Ratio | 0.49 | 0.67 | 0.56 | 2.02 | 1.33 | 0.79 | 0.52 | 0.42 | 0.71 | 0.65 | 0.11 |
| Control Delay (s/veh) | 54.0 | 48.8 | 11.1 | 496.4 | 194.6 | 66.0 | 30.1 | 8.4 | 61.2 | 33.3 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 54.0 | 48.8 | 11.1 | 496.4 | 194.6 | 66.0 | 30.1 | 8.4 | 61.2 | 33.3 | 0.4 |
| Queue Length 50th (ft) | 54 | 135 | 12 | ~567 | ~537 | 123 | 156 | 21 | 93 | 191 | 0 |
| Queue Length 95th (ft) | 111 | 234 | 88 | #882 | #870 | #273 | 211 | 87 | #190 | 250 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 248 | 444 | 569 | 279 | 478 | 267 | 2050 | 774 | 264 | 2030 | 717 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.35 | 0.52 | 0.48 | 2.02 | 1.33 | 0.75 | 0.39 | 0.35 | 0.58 | 0.46 | 0.08 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queues
## 2: Willow Avenue & Perrin Avenue

De Young Properties Peach and Behymer Project
Cumulative Year NP_PM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 473 | 245 | 351 | 259 | 207 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| v/c Ratio | 1.11 | 0.62 | 0.70 | 0.78 | 0.70 | 0.32 | 1.17 | 0.86 | 0.46 | 0.91 | 0.54 | 0.54 |
| Control Delay (s/veh) | 118.0 | 48.6 | 25.8 | 61.8 | 58.5 | 8.3 | 158.0 | 42.2 | 14.5 | 109.2 | 31.6 | 8.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 118.0 | 48.6 | 25.8 | 61.8 | 58.5 | 8.3 | 158.0 | 42.2 | 14.5 | 109.2 | 31.6 | 8.4 |
| Queue Length 50th (ft) | ~406 | 166 | 101 | 183 | 145 | 0 | ~132 | 367 | 64 | 94 | 208 | 35 |
| Queue Length 95th (ft) | #612 | 253 | 212 | #298 | 226 | 42 | #221 | 430 | 145 | #212 | 253 | 122 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 230 | | 230 | 100 | | 100 | 235 | | 145 | 250 | | 130 |
| Base Capacity (vph) | 426 | 403 | 502 | 351 | 324 | 379 | 245 | 1693 | 645 | 138 | 1789 | 788 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 1.11 | 0.61 | 0.70 | 0.74 | 0.64 | 0.30 | 1.17 | 0.85 | 0.46 | 0.91 | 0.53 | 0.54 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 421 | 55 | 323 | 1050 | 240 |
| v/c Ratio | 0.73 | 0.60 | 0.93 | 0.61 | 1.09 | 0.71 | 0.96 | 0.84 | 0.11 | 1.10 | 2.09 | 0.49 |
| Control Delay (s/veh) | 71.8 | 41.2 | 51.9 | 67.6 | 109.7 | 39.4 | 95.6 | 59.4 | 2.2 | 129.2 | 523.4 | 27.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 71.8 | 41.2 | 51.9 | 67.6 | 109.7 | 39.4 | 95.6 | 59.4 | 2.2 | 129.2 | 523.4 | 27.3 |
| Queue Length 50th (ft) | 129 | 221 | 302 | 91 | ~497 | 191 | 230 | 321 | 0 | ~295 | ~1342 | 99 |
| Queue Length 95th (ft) | 206 | 301 | #560 | 154 | #758 | 321 | #428 | #521 | 9 | #507 | #1675 | 190 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 235 | | 50 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 294 | 1022 | 593 | 294 | 502 | 493 | 294 | 502 | 493 | 294 | 502 | 493 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.55 | 0.60 | 0.93 | 0.39 | 1.09 | 0.71 | 0.96 | 0.84 | 0.11 | 1.10 | 2.09 | 0.49 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
De Young Properties Peach and Behymer Project
1: Willow Avenue & Behymer Avenue
Cumulative Year NP_PM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 24 | 276 | 258 | 572 | 550 | 234 | 966 | 728 | 265 | 712 | 46 |
| v/c Ratio | 0.18 | 0.80 | 0.51 | 2.29 | 1.03 | 0.97 | 0.56 | 0.92 | 1.10 | 0.41 | 0.07 |
| Control Delay (s/veh) | 53.8 | 60.8 | 8.7 | 615.0 | 83.4 | 100.4 | 31.5 | 33.7 | 132.8 | 29.1 | 0.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 53.8 | 60.8 | 8.7 | 615.0 | 83.4 | 100.4 | 31.5 | 33.7 | 132.8 | 29.1 | 0.2 |
| Queue Length 50th (ft) | 17 | 193 | 0 | ~692 | ~469 | ~178 | 208 | 265 | ~229 | 144 | 0 |
| Queue Length 95th (ft) | 45 | #294 | 69 | #917 | #686 | #345 | 256 | #530 | #401 | 183 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 224 | 402 | 544 | 250 | 536 | 241 | 1854 | 827 | 241 | 1854 | 667 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.11 | 0.69 | 0.47 | 2.29 | 1.03 | 0.97 | 0.52 | 0.88 | 1.10 | 0.38 | 0.07 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
De Young Properties Peach and Benymer Project
2: Willow Avenue & Perrin Avenue
Cumulative Year NP_AM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 287 | 123 | 215 | 203 | 187 | 78 | 165 | 888 | 138 | 46 | 1291 | 463 |
| v/c Ratio | 0.75 | 0.33 | 0.44 | 0.65 | 0.63 | 0.22 | 0.64 | 0.47 | 0.21 | 0.33 | 0.74 | 0.64 |
| Control Delay (s/veh) | 53.6 | 40.8 | 8.3 | 52.6 | 53.5 | 3.0 | 62.2 | 28.7 | 6.0 | 56.5 | 34.7 | 15.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 53.6 | 40.8 | 8.3 | 52.6 | 53.5 | 3.0 | 62.2 | 28.7 | 6.0 | 56.5 | 34.7 | 15.6 |
| Queue Length 50th (ft) | 194 | 76 | 0 | 138 | 127 | 0 | 61 | 185 | 2 | 32 | 300 | 101 |
| Queue Length 95th (ft) | 294 | 135 | 63 | 218 | 206 | 11 | #107 | 240 | 46 | 71 | 366 | 222 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 230 | | 230 | 100 | | 100 | 235 | | 145 | 250 | | 130 |
| Base Capacity (vph) | 445 | 421 | 524 | 374 | 345 | 396 | 258 | 1884 | 670 | 160 | 1852 | 758 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.64 | 0.29 | 0.41 | 0.54 | 0.54 | 0.20 | 0.64 | 0.47 | 0.21 | 0.29 | 0.70 | 0.61 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queues
## 6: Minnewawa Avenue & Shepherd Avenue

De Young Properties Peach and Behymer Project
Cumulative Year NP_PM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 1122 | 95 | 209 | 708 | 242 |
| v/c Ratio | 1.14 | 0.43 | 0.68 | 0.32 | 0.87 | 0.72 | 1.71 | 2.09 | 0.18 | 0.83 | 1.44 | 0.50 |
| Control Delay (s/veh) | 143.0 | 33.8 | 27.3 | 61.8 | 65.3 | 39.1 | 365.5 | 519.8 | 8.7 | 79.9 | 243.4 | 28.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 143.0 | 33.8 | 27.3 | 61.8 | 65.3 | 39.1 | 365.5 | 519.8 | 8.7 | 79.9 | 243.4 | 28.4 |
| Queue Length 50th (ft) | ~338 | 184 | 208 | 41 | 320 | 183 | ~622 | ~1528 | 2 | 171 | ~817 | 106 |
| Queue Length 95th (ft) | #529 | 240 | 339 | 85 | #474 | 296 | #839 | #1799 | 45 | #279 | #1055 | 192 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 235 | | 50 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 297 | 1256 | 682 | 297 | 507 | 511 | 292 | 538 | 522 | 289 | 493 | 486 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 1.14 | 0.43 | 0.68 | 0.17 | 0.79 | 0.68 | 1.71 | 2.09 | 0.18 | 0.72 | 1.44 | 0.50 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
1: Willow Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Cumulative Year WP_AM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 87 | 230 | 275 | 564 | 649 | 199 | 808 | 273 | 155 | 941 | 59 |
| v/c Ratio | 0.49 | 0.67 | 0.56 | 2.02 | 1.35 | 0.80 | 0.52 | 0.43 | 0.71 | 0.65 | 0.11 |
| Control Delay (s/veh) | 54.1 | 48.8 | 11.1 | 497.1 | 203.6 | 66.1 | 30.1 | 8.4 | 61.8 | 33.3 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 54.1 | 48.8 | 11.1 | 497.1 | 203.6 | 66.1 | 30.1 | 8.4 | 61.8 | 33.3 | 0.4 |
| Queue Length 50th (ft) | 54 | 136 | 12 | ~567 | ~552 | 123 | 156 | 21 | 95 | 191 | 0 |
| Queue Length 95th (ft) | 111 | 235 | 88 | #882 | #887 | #273 | 211 | 87 | #195 | 250 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 247 | 444 | 569 | 279 | 479 | 266 | 2049 | 774 | 264 | 2029 | 716 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.35 | 0.52 | 0.48 | 2.02 | 1.35 | 0.75 | 0.39 | 0.35 | 0.59 | 0.46 | 0.08 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queues
## 2: Willow Avenue & Perrin Avenue

De Young Properties Peach and Behymer Project
Cumulative Year WP_AM Peak Hour



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 287 | 130 | 215 | 203 | 206 | 78 | 165 | 888 | 138 | 46 | 1291 | 463 |
| v/c Ratio | 0.76 | 0.34 | 0.44 | 0.65 | 0.67 | 0.21 | 0.64 | 0.48 | 0.21 | 0.34 | 0.75 | 0.64 |
| Control Delay (s/veh) | 54.0 | 40.9 | 8.2 | 53.0 | 55.5 | 2.9 | 62.7 | 29.4 | 6.1 | 57.5 | 35.0 | 15.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 54.0 | 40.9 | 8.2 | 53.0 | 55.5 | 2.9 | 62.7 | 29.4 | 6.1 | 57.5 | 35.0 | 15.7 |
| Queue Length 50th (ft) | 196 | 81 | 0 | 139 | 142 | 0 | 61 | 190 | 2 | 33 | 304 | 103 |
| Queue Length 95th (ft) | 294 | 141 | 63 | 218 | 226 | 11 | #107 | 240 | 46 | 72 | 366 | 222 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 230 | | 230 | 100 | | 100 | 235 | | 145 | 250 | | 130 |
| Base Capacity (vph) | 442 | 421 | 524 | 371 | 343 | 394 | 257 | 1849 | 660 | 142 | 1839 | 755 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.65 | 0.31 | 0.41 | 0.55 | 0.60 | 0.20 | 0.64 | 0.48 | 0.21 | 0.32 | 0.70 | 0.61 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 432 | 55 | 323 | 1080 | 240 |
| v/c Ratio | 0.73 | 0.60 | 0.93 | 0.61 | 1.09 | 0.71 | 0.96 | 0.86 | 0.11 | 1.10 | 2.15 | 0.49 |
| Control Delay (s/veh) | 71.8 | 41.2 | 51.9 | 67.6 | 109.7 | 39.4 | 95.6 | 61.6 | 2.2 | 129.2 | 549.5 | 27.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 71.8 | 41.2 | 51.9 | 67.6 | 109.7 | 39.4 | 95.6 | 61.6 | 2.2 | 129.2 | 549.5 | 27.3 |
| Queue Length 50th (ft) | 129 | 221 | 302 | 91 | ~497 | 191 | 230 | 333 | 0 | ~295 | ~1392 | 99 |
| Queue Length 95th (ft) | 206 | 301 | #560 | 154 | #758 | 321 | #428 | #542 | 9 | #507 | #1727 | 190 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 235 | | 50 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 294 | 1022 | 593 | 294 | 502 | 493 | 294 | 502 | 493 | 294 | 502 | 493 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.55 | 0.60 | 0.93 | 0.39 | 1.09 | 0.71 | 0.96 | 0.86 | 0.11 | 1.10 | 2.15 | 0.49 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
De Young Properties Peach and Behymer Project
1: Willow Avenue & Behymer Avenue
Cumulative Year WP_PM Peak Hour

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 24 | 282 | 258 | 572 | 559 | 234 | 966 | 728 | 274 | 712 | 46 |
| v/c Ratio | 0.18 | 0.81 | 0.51 | 2.25 | 1.02 | 0.98 | 0.56 | 0.92 | 1.13 | 0.41 | 0.07 |
| Control Delay (s/veh) | 53.9 | 61.4 | 8.6 | 601.5 | 81.3 | 101.6 | 31.6 | 34.5 | 142.4 | 29.2 | 0.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 53.9 | 61.4 | 8.6 | 601.5 | 81.3 | 101.6 | 31.6 | 34.5 | 142.4 | 29.2 | 0.2 |
| Queue Length 50th (ft) | 17 | 197 | 0 | ~693 | ~474 | ~183 | 209 | 272 | ~243 | 145 | 0 |
| Queue Length 95th (ft) | 45 | #313 | 69 | #913 | #695 | #345 | 256 | #535 | #413 | 183 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 90 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 223 | 400 | 542 | 254 | 548 | 240 | 1846 | 822 | 242 | 1864 | 671 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.11 | 0.71 | 0.48 | 2.25 | 1.02 | 0.98 | 0.52 | 0.89 | 1.13 | 0.38 | 0.07 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
2: Willow Avenue & Perrin Avenue

De Young Properties Peach and Benyimel Project
Cumulative Year WP_PM Peak Hour

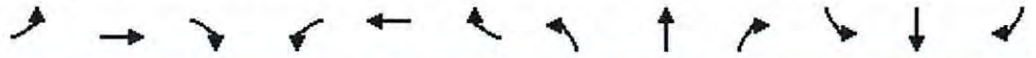
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 473 | 268 | 351 | 259 | 221 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| v/c Ratio | 1.12 | 0.67 | 0.70 | 0.79 | 0.73 | 0.31 | 1.18 | 0.86 | 0.46 | 0.91 | 0.54 | 0.54 |
| Control Delay (s/veh) | 119.5 | 50.7 | 25.6 | 62.0 | 60.6 | 8.2 | 159.8 | 42.5 | 14.6 | 109.9 | 31.7 | 8.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 119.5 | 50.7 | 25.6 | 62.0 | 60.6 | 8.2 | 159.8 | 42.5 | 14.6 | 109.9 | 31.7 | 8.4 |
| Queue Length 50th (ft) | ~406 | 184 | 101 | 183 | 156 | 0 | ~132 | 367 | 64 | 94 | 208 | 35 |
| Queue Length 95th (ft) | #612 | 278 | 212 | #298 | #244 | 42 | #221 | 430 | 145 | #212 | 253 | 122 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 230 | | 230 | 100 | | 100 | 235 | | 145 | 250 | | 130 |
| Base Capacity (vph) | 424 | 402 | 502 | 349 | 322 | 379 | 244 | 1687 | 643 | 138 | 1782 | 787 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 1.12 | 0.67 | 0.70 | 0.74 | 0.69 | 0.30 | 1.18 | 0.86 | 0.46 | 0.91 | 0.54 | 0.54 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
De Young Properties Peach and Behymer Project
6: Minnewawa Avenue & Shepherd Avenue
Cumulative Year WP_PM Peak Hour



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 1155 | 95 | 209 | 728 | 242 |
| v/c Ratio | 1.14 | 0.43 | 0.68 | 0.32 | 0.87 | 0.72 | 1.71 | 2.15 | 0.18 | 0.83 | 1.48 | 0.50 |
| Control Delay (s/veh) | 143.0 | 33.8 | 27.3 | 61.8 | 65.3 | 39.1 | 365.5 | 546.6 | 8.7 | 79.9 | 260.2 | 28.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 143.0 | 33.8 | 27.3 | 61.8 | 65.3 | 39.1 | 365.5 | 546.6 | 8.7 | 79.9 | 260.2 | 28.4 |
| Queue Length 50th (ft) | ~338 | 184 | 208 | 41 | 320 | 183 | ~622 | ~1586 | 2 | 171 | ~852 | 106 |
| Queue Length 95th (ft) | #529 | 240 | 339 | 85 | #474 | 296 | #839 | #1856 | 45 | #279 | #1094 | 192 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 235 | | 50 | 220 | | 60 | 230 | | | 260 | | 15 |
| Base Capacity (vph) | 297 | 1256 | 682 | 297 | 507 | 511 | 292 | 538 | 522 | 289 | 493 | 486 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 1.14 | 0.43 | 0.68 | 0.17 | 0.79 | 0.68 | 1.71 | 2.15 | 0.18 | 0.72 | 1.48 | 0.50 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 82 | 134 | 188 | 93 | 289 | 106 | 714 | 53 | 70 | 630 | 56 |
| v/c Ratio | 0.36 | 0.28 | 0.35 | 0.37 | 0.62 | 0.43 | 0.48 | 0.09 | 0.32 | 0.45 | 0.10 |
| Control Delay (s/veh) | 42.5 | 30.1 | 6.9 | 41.2 | 32.6 | 42.8 | 26.7 | 0.3 | 42.3 | 27.6 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 42.5 | 30.1 | 6.9 | 41.2 | 32.6 | 42.8 | 26.7 | 0.3 | 42.3 | 27.6 | 0.4 |
| Queue Length 50th (ft) | 41 | 57 | 0 | 46 | 117 | 53 | 114 | 0 | 35 | 102 | 0 |
| Queue Length 95th (ft) | 96 | 124 | 54 | 103 | 235 | 115 | 177 | 0 | 85 | 163 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 355 | | 300 | | 455 | 415 | | 205 |
| Base Capacity (vph) | 348 | 625 | 655 | 393 | 609 | 375 | 2860 | 952 | 371 | 2833 | 944 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.24 | 0.21 | 0.29 | 0.24 | 0.47 | 0.28 | 0.25 | 0.06 | 0.19 | 0.22 | 0.06 |

Intersection Summary

| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 177 | 172 | 91 | 720 | 822 | 122 |
| v/c Ratio | 0.42 | 0.34 | 0.18 | 0.25 | 0.43 | 0.18 |
| Control Delay (s/veh) | 24.3 | 6.0 | 27.0 | 6.6 | 15.3 | 4.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 24.3 | 6.0 | 27.0 | 6.6 | 15.3 | 4.2 |
| Queue Length 50th (ft) | 59 | 0 | 16 | 39 | 82 | 0 |
| Queue Length 95th (ft) | 115 | 42 | 39 | 69 | 128 | 30 |
| Internal Link Dist (ft) | 1383 | | | 1272 | 2582 | |
| Turn Bay Length (ft) | 250 | 230 | 300 | | | 225 |
| Base Capacity (vph) | 796 | 807 | 857 | 3247 | 2689 | 894 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.22 | 0.21 | 0.11 | 0.22 | 0.31 | 0.14 |

Intersection Summary

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 37 | 346 | 139 | 15 | 288 | 161 | 130 | 176 | 20 | 132 | 240 | 37 |
| v/c Ratio | 0.13 | 0.30 | 0.24 | 0.05 | 0.60 | 0.30 | 0.42 | 0.42 | 0.05 | 0.42 | 0.57 | 0.09 |
| Control Delay (s/veh) | 38.1 | 20.3 | 10.1 | 38.5 | 32.5 | 6.5 | 38.5 | 31.5 | 0.2 | 38.4 | 34.6 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 38.1 | 20.3 | 10.1 | 38.5 | 32.5 | 6.5 | 38.5 | 31.5 | 0.2 | 38.4 | 34.6 | 0.4 |
| Queue Length 50th (ft) | 16 | 53 | 13 | 7 | 126 | 0 | 61 | 76 | 0 | 62 | 108 | 0 |
| Queue Length 95th (ft) | 56 | 137 | 71 | 30 | 249 | 48 | 141 | 163 | 0 | 142 | 219 | 0 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 500 | | 45 | 220 | | 175 | 230 | | | 425 | | 150 |
| Base Capacity (vph) | 534 | 1778 | 840 | 534 | 911 | 856 | 534 | 911 | 821 | 534 | 911 | 821 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.07 | 0.19 | 0.17 | 0.03 | 0.32 | 0.19 | 0.24 | 0.19 | 0.02 | 0.25 | 0.26 | 0.05 |

Intersection Summary

Queues
De Young Properties Peach and Behymer Project
1: Willow Avenue & Behymer Avenue
Existing Year WP_PM Peak Hour MIT

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 24 | 127 | 141 | 109 | 308 | 138 | 850 | 140 | 120 | 651 | 47 |
| v/c Ratio | 0.13 | 0.38 | 0.35 | 0.48 | 0.62 | 0.57 | 0.52 | 0.23 | 0.51 | 0.40 | 0.08 |
| Control Delay (s/veh) | 41.9 | 36.1 | 9.0 | 44.1 | 31.6 | 46.0 | 25.2 | 5.6 | 44.8 | 24.2 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 41.9 | 36.1 | 9.0 | 44.1 | 31.6 | 46.0 | 25.2 | 5.6 | 44.8 | 24.2 | 0.3 |
| Queue Length 50th (ft) | 11 | 57 | 0 | 50 | 105 | 64 | 120 | 0 | 55 | 89 | 0 |
| Queue Length 95th (ft) | 39 | 124 | 45 | 114 | 247 | 140 | 195 | 36 | 123 | 147 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 355 | | 300 | | 455 | 415 | | 205 |
| Base Capacity (vph) | 313 | 562 | 576 | 357 | 566 | 337 | 2593 | 877 | 341 | 2619 | 885 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.08 | 0.23 | 0.24 | 0.31 | 0.54 | 0.41 | 0.33 | 0.16 | 0.35 | 0.25 | 0.05 |

Intersection Summary



| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 143 | 203 | 209 | 946 | 734 | 107 |
| v/c Ratio | 0.38 | 0.41 | 0.41 | 0.31 | 0.41 | 0.17 |
| Control Delay (s/veh) | 24.5 | 6.5 | 27.3 | 6.4 | 16.1 | 4.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 24.5 | 6.5 | 27.3 | 6.4 | 16.1 | 4.6 |
| Queue Length 50th (ft) | 45 | 0 | 37 | 52 | 69 | 0 |
| Queue Length 95th (ft) | 96 | 47 | 71 | 87 | 117 | 29 |
| Internal Link Dist (ft) | 1383 | | | 1272 | 2582 | |
| Turn Bay Length (ft) | 300 | 230 | 235 | | | 225 |
| Base Capacity (vph) | 738 | 780 | 799 | 3080 | 2559 | 850 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.19 | 0.26 | 0.26 | 0.31 | 0.29 | 0.13 |

Intersection Summary

Queues
De Young Properties Peach and Behymer Project
6: Minnewawa Avenue & Shepherd Avenue
Existing Year WP_PM Peak Hour MIT

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 46 | 311 | 117 | 6 | 253 | 129 | 136 | 248 | 25 | 72 | 198 | 38 |
| v/c Ratio | 0.15 | 0.27 | 0.20 | 0.02 | 0.54 | 0.26 | 0.42 | 0.45 | 0.05 | 0.24 | 0.49 | 0.09 |
| Control Delay (s/veh) | 34.4 | 19.6 | 8.5 | 34.3 | 30.5 | 6.9 | 35.4 | 28.3 | 0.2 | 34.9 | 31.8 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 34.4 | 19.6 | 8.5 | 34.3 | 30.5 | 6.9 | 35.4 | 28.3 | 0.2 | 34.9 | 31.8 | 0.4 |
| Queue Length 50th (ft) | 19 | 45 | 7 | 2 | 105 | 0 | 59 | 105 | 0 | 30 | 82 | 0 |
| Queue Length 95th (ft) | 60 | 117 | 53 | 15 | 206 | 43 | 132 | 197 | 0 | 83 | 170 | 0 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 500 | | 45 | 220 | | 175 | 230 | | | 260 | | 150 |
| Base Capacity (vph) | 574 | 1876 | 883 | 574 | 978 | 894 | 563 | 959 | 860 | 557 | 950 | 852 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.08 | 0.17 | 0.13 | 0.01 | 0.26 | 0.14 | 0.24 | 0.26 | 0.03 | 0.13 | 0.21 | 0.04 |

Intersection Summary

Queues
1: Willow Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Near Term WP_AM Peak Hour MIT

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 84 | 160 | 228 | 220 | 378 | 154 | 752 | 121 | 93 | 703 | 57 |
| v/c Ratio | 0.44 | 0.45 | 0.47 | 0.75 | 0.76 | 0.65 | 0.47 | 0.20 | 0.48 | 0.54 | 0.11 |
| Control Delay (s/veh) | 48.6 | 37.6 | 8.2 | 55.5 | 41.0 | 52.8 | 27.8 | 4.3 | 48.9 | 31.3 | 0.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 48.6 | 37.6 | 8.2 | 55.5 | 41.0 | 52.8 | 27.8 | 4.3 | 48.9 | 31.3 | 0.5 |
| Queue Length 50th (ft) | 47 | 82 | 0 | 123 | 185 | 86 | 133 | 0 | 52 | 130 | 0 |
| Queue Length 95th (ft) | 101 | 155 | 62 | #275 | #399 | 167 | 194 | 31 | 109 | 183 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 355 | | 300 | | 455 | 415 | | 205 |
| Base Capacity (vph) | 274 | 493 | 586 | 310 | 498 | 295 | 2272 | 786 | 292 | 2251 | 779 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.31 | 0.32 | 0.39 | 0.71 | 0.76 | 0.52 | 0.33 | 0.15 | 0.32 | 0.31 | 0.07 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
2: Willow Avenue & Perrin Avenue

De Young Properties Peach and Behymer Project
Near Term WP_AM Peak Hour MIT

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 214 | 72 | 197 | 107 | 98 | 32 | 125 | 796 | 81 | 24 | 957 | 207 |
| v/c Ratio | 0.57 | 0.19 | 0.41 | 0.39 | 0.36 | 0.09 | 0.38 | 0.35 | 0.10 | 0.15 | 0.59 | 0.32 |
| Control Delay (s/veh) | 40.5 | 34.3 | 8.1 | 42.9 | 43.0 | 0.5 | 46.9 | 20.4 | 1.5 | 47.1 | 28.2 | 5.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 40.5 | 34.3 | 8.1 | 42.9 | 43.0 | 0.5 | 46.9 | 20.4 | 1.5 | 47.1 | 28.2 | 5.3 |
| Queue Length 50th (ft) | 111 | 35 | 0 | 56 | 52 | 0 | 35 | 101 | 0 | 13 | 169 | 0 |
| Queue Length 95th (ft) | 214 | 83 | 59 | 125 | 117 | 0 | 77 | 202 | 11 | 44 | 256 | 51 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 250 | | 230 | 300 | | 100 | 235 | | 145 | 250 | | 225 |
| Base Capacity (vph) | 557 | 532 | 592 | 468 | 432 | 465 | 352 | 2380 | 808 | 165 | 2216 | 805 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.38 | 0.14 | 0.33 | 0.23 | 0.23 | 0.07 | 0.36 | 0.33 | 0.10 | 0.15 | 0.43 | 0.26 |

Intersection Summary

| Lane Group | EBT | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 353 | 581 | 125 | 304 | 194 | 298 |
| v/c Ratio | 0.54 | 0.87 | 0.57 | 0.67 | 0.70 | 0.50 |
| Control Delay (s/veh) | 16.2 | 33.3 | 38.7 | 27.6 | 41.5 | 20.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 16.2 | 33.3 | 38.7 | 27.6 | 41.5 | 20.9 |
| Queue Length 50th (ft) | 76 | 166 | 44 | 98 | 68 | 92 |
| Queue Length 95th (ft) | 164 | #379 | #114 | 169 | #170 | 158 |
| Internal Link Dist (ft) | 517 | 746 | | 2579 | | 1236 |
| Turn Bay Length (ft) | | | 300 | | 350 | |
| Base Capacity (vph) | 711 | 718 | 229 | 624 | 290 | 689 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.50 | 0.81 | 0.55 | 0.49 | 0.67 | 0.43 |

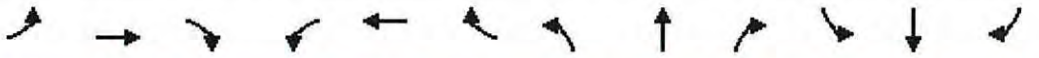
Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Lane Group | EBT | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 185 | 93 | 66 | 479 | 2 | 650 |
| v/c Ratio | 0.49 | 0.25 | 0.32 | 0.41 | 0.01 | 0.62 |
| Control Delay (s/veh) | 17.5 | 18.4 | 27.0 | 8.7 | 23.0 | 16.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 17.5 | 18.4 | 27.0 | 8.7 | 23.0 | 16.2 |
| Queue Length 50th (ft) | 35 | 24 | 19 | 55 | 1 | 153 |
| Queue Length 95th (ft) | 82 | 55 | 54 | 205 | 6 | #370 |
| Internal Link Dist (ft) | 5362 | 554 | | 2572 | | 2579 |
| Turn Bay Length (ft) | | | 175 | | 100 | |
| Base Capacity (vph) | 722 | 761 | 209 | 1226 | 204 | 1087 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.26 | 0.12 | 0.32 | 0.39 | 0.01 | 0.60 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 112 | 436 | 288 | 47 | 368 | 239 | 217 | 346 | 39 | 236 | 620 | 155 |
| v/c Ratio | 0.56 | 0.42 | 0.52 | 0.27 | 0.80 | 0.45 | 0.80 | 0.64 | 0.07 | 0.83 | 1.11 | 0.29 |
| Control Delay (s/veh) | 60.6 | 34.5 | 21.9 | 56.0 | 54.8 | 11.3 | 69.4 | 43.2 | 0.3 | 70.5 | 110.2 | 16.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 60.6 | 34.5 | 21.9 | 56.0 | 54.8 | 11.3 | 69.4 | 43.2 | 0.3 | 70.5 | 110.2 | 16.5 |
| Queue Length 50th (ft) | 81 | 143 | 97 | 33 | 254 | 25 | 156 | 229 | 0 | 169 | ~544 | 35 |
| Queue Length 95th (ft) | 148 | 193 | 187 | 77 | 392 | 99 | #282 | 366 | 0 | #321 | #863 | 99 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | | 2572 | |
| Turn Bay Length (ft) | 500 | | 45 | 220 | | 175 | 230 | | | 425 | | 150 |
| Base Capacity (vph) | 328 | 1117 | 589 | 328 | 559 | 611 | 328 | 559 | 539 | 328 | 559 | 539 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.34 | 0.39 | 0.49 | 0.14 | 0.66 | 0.39 | 0.66 | 0.62 | 0.07 | 0.72 | 1.11 | 0.29 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
1: Willow Avenue & Behymer Avenue

De Young Properties Peach and Behymer Project
Near Term WP_PM Peak Hour MIT

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 23 | 163 | 196 | 236 | 363 | 189 | 854 | 292 | 153 | 657 | 43 |
| v/c Ratio | 0.15 | 0.57 | 0.48 | 0.77 | 0.62 | 0.73 | 0.55 | 0.43 | 0.66 | 0.44 | 0.08 |
| Control Delay (s/veh) | 45.7 | 45.2 | 9.7 | 56.8 | 32.4 | 57.0 | 28.8 | 5.3 | 54.0 | 28.1 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 45.7 | 45.2 | 9.7 | 56.8 | 32.4 | 57.0 | 28.8 | 5.3 | 54.0 | 28.1 | 0.3 |
| Queue Length 50th (ft) | 12 | 87 | 0 | 129 | 141 | 101 | 150 | 0 | 83 | 114 | 0 |
| Queue Length 95th (ft) | 42 | 168 | 60 | #309 | #358 | #239 | 215 | 59 | 170 | 162 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 355 | | 300 | | 455 | 415 | | 205 |
| Base Capacity (vph) | 270 | 484 | 556 | 307 | 590 | 290 | 2233 | 860 | 293 | 2255 | 782 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.09 | 0.34 | 0.35 | 0.77 | 0.62 | 0.65 | 0.38 | 0.34 | 0.52 | 0.29 | 0.05 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 234 | 131 | 257 | 153 | 121 | 58 | 251 | 1094 | 160 | 59 | 827 | 194 |
| v/c Ratio | 0.92 | 0.40 | 0.56 | 0.89 | 0.37 | 0.14 | 0.77 | 0.57 | 0.22 | 0.35 | 0.54 | 0.32 |
| Control Delay (s/veh) | 76.6 | 23.8 | 10.1 | 78.9 | 23.3 | 0.7 | 43.9 | 16.2 | 3.5 | 30.7 | 17.4 | 4.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 76.6 | 23.8 | 10.1 | 78.9 | 23.3 | 0.7 | 43.9 | 16.2 | 3.5 | 30.7 | 17.4 | 4.6 |
| Queue Length 50th (ft) | ~108 | 39 | 10 | 51 | 36 | 0 | 42 | 109 | 0 | 19 | 77 | 0 |
| Queue Length 95th (ft) | #243 | 80 | 61 | #159 | 75 | 0 | #106 | 170 | 30 | 52 | 124 | 38 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 250 | | 230 | 300 | | 100 | 235 | | 145 | 250 | | 225 |
| Base Capacity (vph) | 255 | 648 | 697 | 171 | 648 | 669 | 328 | 1929 | 712 | 171 | 1770 | 679 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.92 | 0.20 | 0.37 | 0.89 | 0.19 | 0.09 | 0.77 | 0.57 | 0.22 | 0.35 | 0.47 | 0.29 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Lane Group | EBT | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 413 | 526 | 185 | 410 | 209 | 249 |
| v/c Ratio | 0.70 | 0.87 | 0.68 | 0.78 | 0.72 | 0.46 |
| Control Delay (s/veh) | 24.5 | 36.7 | 40.6 | 31.0 | 41.7 | 20.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 24.5 | 36.7 | 40.6 | 31.0 | 41.7 | 20.2 |
| Queue Length 50th (ft) | 123 | 171 | 68 | 138 | 77 | 74 |
| Queue Length 95th (ft) | #230 | #352 | #157 | #235 | #174 | 132 |
| Internal Link Dist (ft) | 517 | 456 | | 2579 | | 1236 |
| Turn Bay Length (ft) | | | 300 | | 350 | |
| Base Capacity (vph) | 639 | 647 | 290 | 642 | 311 | 663 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.65 | 0.81 | 0.64 | 0.64 | 0.67 | 0.38 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Lane Group | EBT | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 239 | 119 | 93 | 657 | 1 | 499 |
| v/c Ratio | 0.58 | 0.29 | 0.51 | 0.64 | 0.01 | 0.63 |
| Control Delay (s/veh) | 20.0 | 18.7 | 37.8 | 14.1 | 26.0 | 16.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 20.0 | 18.7 | 37.8 | 14.1 | 26.0 | 16.6 |
| Queue Length 50th (ft) | 46 | 27 | 25 | 99 | 0 | 110 |
| Queue Length 95th (ft) | 119 | 73 | #103 | #402 | 4 | 238 |
| Internal Link Dist (ft) | 5362 | 554 | | 2572 | | 2579 |
| Turn Bay Length (ft) | | | 175 | | 100 | |
| Base Capacity (vph) | 655 | 676 | 184 | 1110 | 182 | 1057 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.36 | 0.18 | 0.51 | 0.59 | 0.01 | 0.47 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 199 | 407 | 273 | 33 | 336 | 253 | 296 | 732 | 167 | 500 | 160 |
| v/c Ratio | 0.87 | 0.37 | 0.46 | 0.20 | 0.82 | 0.49 | 0.90 | 0.59 | 0.72 | 0.90 | 0.29 |
| Control Delay (s/veh) | 87.9 | 36.3 | 21.6 | 58.3 | 62.6 | 11.9 | 79.1 | 34.7 | 69.5 | 61.8 | 10.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 87.9 | 36.3 | 21.6 | 58.3 | 62.6 | 11.9 | 79.1 | 34.7 | 69.5 | 61.8 | 10.7 |
| Queue Length 50th (ft) | 167 | 149 | 96 | 26 | 266 | 24 | 245 | 254 | 137 | 397 | 20 |
| Queue Length 95th (ft) | #312 | 199 | 185 | 61 | #397 | 101 | #416 | 339 | 210 | #597 | 74 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | 2572 | |
| Turn Bay Length (ft) | 500 | | 45 | 220 | | 175 | 230 | | 425 | | 150 |
| Base Capacity (vph) | 241 | 1117 | 593 | 166 | 476 | 567 | 355 | 1323 | 308 | 617 | 608 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.83 | 0.36 | 0.46 | 0.20 | 0.71 | 0.45 | 0.83 | 0.55 | 0.54 | 0.81 | 0.26 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queues
## 1: Willow Avenue & Behymer Avenue



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 87 | 230 | 275 | 564 | 302 | 347 | 199 | 808 | 273 | 155 | 941 | 59 |
| v/c Ratio | 0.59 | 0.71 | 0.58 | 0.87 | 0.55 | 0.51 | 0.85 | 0.54 | 0.28 | 0.74 | 0.66 | 0.10 |
| Control Delay (s/veh) | 64.6 | 52.8 | 12.3 | 57.3 | 36.7 | 8.6 | 76.5 | 31.9 | 3.6 | 65.9 | 34.5 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 64.6 | 52.8 | 12.3 | 57.3 | 36.7 | 8.6 | 76.5 | 31.9 | 3.6 | 65.9 | 34.5 | 0.4 |
| Queue Length 50th (ft) | 55 | 141 | 16 | 184 | 172 | 20 | 128 | 164 | 12 | 96 | 195 | 0 |
| Queue Length 95th (ft) | #137 | 241 | 96 | #336 | 286 | 103 | #299 | 219 | 55 | #212 | 257 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 355 | | 150 | 300 | | 455 | 415 | | 205 |
| Base Capacity (vph) | 153 | 431 | 555 | 645 | 606 | 721 | 234 | 1850 | 964 | 242 | 1863 | 697 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.57 | 0.53 | 0.50 | 0.87 | 0.50 | 0.48 | 0.85 | 0.44 | 0.28 | 0.64 | 0.51 | 0.08 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

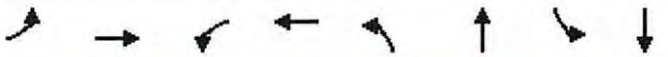
Queues
De Young Properties Peach and Behymer Project
4: Minnewawa Avenue & Behymer Avenue
Cumulative Year WP_AM Peak Hour MIT



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 16 | 267 | 187 | 65 | 541 | 288 | 193 | 327 | 36 | 258 | 586 |
| v/c Ratio | 0.16 | 0.42 | 0.28 | 0.21 | 0.84 | 0.42 | 0.61 | 0.51 | 0.06 | 0.50 | 0.85 |
| Control Delay (s/veh) | 27.1 | 25.4 | 4.8 | 24.0 | 40.7 | 9.3 | 22.8 | 26.4 | 2.1 | 14.5 | 38.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 27.1 | 25.4 | 4.8 | 24.0 | 40.7 | 9.3 | 22.8 | 26.4 | 2.1 | 14.5 | 38.3 |
| Queue Length 50th (ft) | 6 | 118 | 0 | 26 | 287 | 32 | 55 | 150 | 0 | 77 | 309 |
| Queue Length 95th (ft) | 25 | 198 | 45 | 62 | #480 | 99 | #114 | 244 | 9 | 128 | #467 |
| Internal Link Dist (ft) | | 517 | | | 746 | | | 2579 | | | 1236 |
| Turn Bay Length (ft) | 100 | | 125 | 100 | | 150 | 300 | | | 350 | |
| Base Capacity (vph) | 123 | 796 | 783 | 396 | 812 | 808 | 334 | 806 | 721 | 584 | 900 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.13 | 0.34 | 0.24 | 0.16 | 0.67 | 0.36 | 0.58 | 0.41 | 0.05 | 0.44 | 0.65 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 92 | 272 | 24 | 161 | 104 | 599 | 3 | 1228 |
| v/c Ratio | 0.65 | 0.60 | 0.18 | 0.48 | 0.63 | 0.38 | 0.02 | 0.83 |
| Control Delay (s/veh) | 59.5 | 26.5 | 38.3 | 32.5 | 54.2 | 14.9 | 35.3 | 25.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 59.5 | 26.5 | 38.3 | 32.5 | 54.2 | 14.9 | 35.3 | 25.5 |
| Queue Length 50th (ft) | 42 | 80 | 11 | 68 | 47 | 88 | 1 | 242 |
| Queue Length 95th (ft) | #124 | 176 | 35 | 123 | #131 | 148 | 10 | #418 |
| Internal Link Dist (ft) | | 5362 | | 554 | | 2572 | | 2579 |
| Turn Bay Length (ft) | 175 | | 100 | | 175 | | 100 | |
| Base Capacity (vph) | 141 | 523 | 131 | 486 | 165 | 1702 | 127 | 1613 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.65 | 0.52 | 0.18 | 0.33 | 0.63 | 0.35 | 0.02 | 0.76 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
De Young Properties Peach and Behymer Project
6: Minnewawa Avenue & Shepherd Avenue
Cumulative Year WP_AM Peak Hour MIT



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 163 | 613 | 552 | 115 | 547 | 350 | 283 | 487 | 323 | 1080 | 240 |
| v/c Ratio | 0.78 | 0.74 | 0.78 | 0.65 | 0.72 | 0.42 | 0.66 | 0.51 | 0.87 | 0.85 | 0.37 |
| Control Delay (s/veh) | 76.3 | 47.7 | 33.7 | 71.3 | 49.1 | 12.5 | 58.1 | 38.1 | 68.0 | 42.4 | 15.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 76.3 | 47.7 | 33.7 | 71.3 | 49.1 | 12.5 | 58.1 | 38.1 | 68.0 | 42.4 | 15.0 |
| Queue Length 50th (ft) | 124 | 234 | 320 | 88 | 212 | 94 | 110 | 164 | 240 | 390 | 58 |
| Queue Length 95th (ft) | #255 | 314 | 469 | #186 | 286 | 174 | 163 | 234 | #412 | 539 | 138 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | 2572 | |
| Turn Bay Length (ft) | 500 | | 45 | 220 | | 175 | 230 | | 425 | | 150 |
| Base Capacity (vph) | 229 | 1009 | 763 | 183 | 917 | 890 | 563 | 1089 | 443 | 1407 | 705 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.71 | 0.61 | 0.72 | 0.63 | 0.60 | 0.39 | 0.50 | 0.45 | 0.73 | 0.77 | 0.34 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

## Intersection: 9: Project Driveway 3 & Behymer Avenue

| Movement | WB | NB |
|---|---|---|
| Directions Served | L | R |
| Maximum Queue (ft) | 28 | 103 |
| Average Queue (ft) | 3 | 22 |
| 95th Queue (ft) | 17 | 60 |
| Link Distance (ft) | | 399 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | 100 | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Queues
De Young Properties Peach and Behymer Project
1: Willow Avenue & Behymer Avenue
Cumulative Year WP_PM Peak Hour MIT

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 24 | 282 | 258 | 572 | 277 | 282 | 234 | 966 | 728 | 274 | 712 | 46 |
| v/c Ratio | 0.18 | 0.79 | 0.50 | 0.97 | 0.41 | 0.37 | 0.68 | 0.67 | 0.90 | 1.07 | 0.59 | 0.09 |
| Control Delay (s/veh) | 51.3 | 56.5 | 8.4 | 74.4 | 30.2 | 5.3 | 51.9 | 35.7 | 27.9 | 119.4 | 37.9 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 51.3 | 56.5 | 8.4 | 74.4 | 30.2 | 5.3 | 51.9 | 35.7 | 27.9 | 119.4 | 37.9 | 0.3 |
| Queue Length 50th (ft) | 15 | 178 | 0 | 198 | 124 | 0 | 147 | 211 | 191 | ~205 | 156 | 0 |
| Queue Length 95th (ft) | 45 | #308 | 68 | #352 | 260 | 64 | #264 | 263 | #453 | #410 | 205 | 0 |
| Internal Link Dist (ft) | | 2009 | | | 2713 | | | 2582 | | | 1915 | |
| Turn Bay Length (ft) | 230 | | 240 | 355 | | 150 | 300 | | 455 | 415 | | 205 |
| Base Capacity (vph) | 137 | 424 | 559 | 591 | 676 | 756 | 342 | 1858 | 810 | 257 | 1978 | 731 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.18 | 0.67 | 0.46 | 0.97 | 0.41 | 0.37 | 0.68 | 0.52 | 0.90 | 1.07 | 0.36 | 0.06 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
De Young Properties Peach and Benjamin Project
2: Willow Avenue & Perrin Avenue
Cumulative Year WP_PM Peak Hour MIT

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 473 | 268 | 351 | 259 | 221 | 113 | 287 | 1445 | 295 | 126 | 956 | 422 |
| v/c Ratio | 0.95 | 0.60 | 0.64 | 0.82 | 0.87 | 0.30 | 0.80 | 0.92 | 0.48 | 0.85 | 0.63 | 0.55 |
| Control Delay (s/veh) | 71.2 | 46.3 | 20.0 | 66.3 | 81.5 | 2.3 | 67.2 | 48.4 | 14.5 | 94.4 | 37.2 | 5.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 71.2 | 46.3 | 20.0 | 66.3 | 81.5 | 2.3 | 67.2 | 48.4 | 14.5 | 94.4 | 37.2 | 5.9 |
| Queue Length 50th (ft) | 344 | 180 | 80 | 185 | 163 | 0 | 108 | 377 | 60 | 93 | 224 | 0 |
| Queue Length 95th (ft) | #551 | 271 | 186 | #312 | #302 | 3 | #168 | #467 | 142 | #200 | 273 | 75 |
| Internal Link Dist (ft) | | 1383 | | | 5362 | | | 1272 | | | 2582 | |
| Turn Bay Length (ft) | 250 | | 230 | 300 | | 100 | 235 | | 145 | 250 | | 225 |
| Base Capacity (vph) | 498 | 443 | 550 | 329 | 253 | 376 | 374 | 1579 | 620 | 152 | 1529 | 773 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.95 | 0.60 | 0.64 | 0.79 | 0.87 | 0.30 | 0.77 | 0.92 | 0.48 | 0.83 | 0.63 | 0.55 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
De Young Properties Peach and Behymer Project
4: Minnewawa Avenue & Behymer Avenue
Cumulative Year WP_PM Peak Hour MIT



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 18 | 534 | 194 | 38 | 543 | 240 | 280 | 675 | 69 | 243 | 349 |
| v/c Ratio | 0.27 | 0.91 | 0.34 | 0.57 | 0.91 | 0.40 | 0.50 | 0.92 | 0.10 | 0.84 | 0.79 |
| Control Delay (s/veh) | 43.3 | 58.4 | 17.4 | 68.6 | 57.8 | 15.6 | 37.0 | 51.2 | 8.1 | 72.7 | 53.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 43.3 | 58.4 | 17.4 | 68.6 | 57.8 | 15.6 | 37.0 | 51.2 | 8.1 | 72.7 | 53.0 |
| Queue Length 50th (ft) | 10 | 393 | 55 | 24 | 399 | 58 | 171 | 482 | 6 | 185 | 255 |
| Queue Length 95th (ft) | 34 | #595 | 118 | #81 | #602 | 129 | 286 | #712 | 35 | #327 | 332 |
| Internal Link Dist (ft) | | 517 | | | 624 | | | 2579 | | | 1236 |
| Turn Bay Length (ft) | 100 | | 125 | 100 | | 150 | 300 | | | 350 | |
| Base Capacity (vph) | 73 | 653 | 618 | 75 | 666 | 656 | 566 | 823 | 731 | 311 | 644 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.25 | 0.82 | 0.31 | 0.51 | 0.82 | 0.37 | 0.49 | 0.82 | 0.09 | 0.78 | 0.54 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 136 | 345 | 24 | 191 | 169 | 1177 | 4 | 765 |
| v/c Ratio | 0.65 | 0.59 | 0.18 | 0.56 | 0.65 | 0.69 | 0.03 | 0.75 |
| Control Delay (s/veh) | 49.9 | 24.1 | 38.3 | 33.5 | 43.7 | 18.8 | 35.5 | 28.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 49.9 | 24.1 | 38.3 | 33.5 | 43.7 | 18.8 | 35.5 | 28.0 |
| Queue Length 50th (ft) | 60 | 103 | 10 | 79 | 72 | 184 | 2 | 154 |
| Queue Length 95th (ft) | #153 | 224 | 35 | 144 | #162 | #404 | 11 | 237 |
| Internal Link Dist (ft) | | 5362 | | 554 | | 2572 | | 2579 |
| Turn Bay Length (ft) | 175 | | 100 | | 175 | | 100 | |
| Base Capacity (vph) | 217 | 601 | 130 | 483 | 293 | 1753 | 126 | 1203 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.63 | 0.57 | 0.18 | 0.40 | 0.58 | 0.67 | 0.03 | 0.64 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queues
De Young Properties Peach and Behymer Project
6: Minnewawa Avenue & Shepherd Avenue
Cumulative Year WP_PM Peak Hour MIT



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 339 | 538 | 464 | 51 | 403 | 346 | 498 | 1250 | 209 | 728 | 242 |
| v/c Ratio | 0.98 | 0.61 | 0.53 | 0.20 | 0.67 | 0.64 | 0.68 | 1.02 | 0.95 | 0.79 | 0.45 |
| Control Delay (s/veh) | 92.9 | 44.9 | 18.6 | 48.3 | 52.8 | 22.5 | 50.5 | 68.7 | 103.2 | 48.1 | 14.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (s/veh) | 92.9 | 44.9 | 18.6 | 48.3 | 52.8 | 22.5 | 50.5 | 68.7 | 103.2 | 48.1 | 14.2 |
| Queue Length 50th (ft) | 263 | 207 | 188 | 35 | 155 | 114 | 186 | ~518 | 163 | 272 | 43 |
| Queue Length 95th (ft) | #480 | 263 | 301 | 77 | 210 | 175 | #291 | #721 | #332 | 349 | 117 |
| Internal Link Dist (ft) | | 1251 | | | 861 | | | 1224 | | 2572 | |
| Turn Bay Length (ft) | 500 | | 45 | 220 | | 175 | 230 | | 425 | | 150 |
| Base Capacity (vph) | 346 | 1264 | 881 | 250 | 902 | 538 | 731 | 1230 | 219 | 1052 | 588 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.98 | 0.43 | 0.53 | 0.20 | 0.45 | 0.64 | 0.68 | 1.02 | 0.95 | 0.69 | 0.41 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Queuing and Blocking Report

## Intersection: 9: Project Driveway 3 & Behymer Avenue

| Movement | WB | NB |
|---|---|---|
| Directions Served | L | R |
| Maximum Queue (ft) | 51 | 32 |
| Average Queue (ft) | 23 | 9 |
| 95th Queue (ft) | 44 | 30 |
| Link Distance (ft) | | 399 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | 100 | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

**Appendix A.** California Agricultural LESA Worksheets

***NOTES***

he Peach and Behymer Residential Project is a 7.44 acre project site located in unincorporated resno County, within the City of Clovis Sphere of ıfluence (SOI). Two soil types have been identified ŋ the project site: Ramona sandy loam (Ra) and an Joaquin sandy loam, 0 to 3 percent slopes, lajor Land Resource Area (MLRA) 17 (ScA) (refer ı Figure 1: Soils, at the end of the worksheets). The ɔreage of each soil type is divided by the total ʻoject acreage (37.44 acres) to determine the ʻoportion of each soil type on the project site. The and Capability Classification (LCC) and Storie ıdex for the onsite soils were found on the United tates Department of Agriculture (USDA) Natural esources Conservation Service (NRCS) Web Soil urvey.

ccording to the USDA NRCS Web Soil Survey, the LCs for the two soil types are as follows: I for Ra ŋd IVs for ScA for irrigated land; and IVc for Ra and /s for ScA for nonirrigated land. The property ʍners have indicated that only 7 acres of Ra soil ithin the project site are irrigated via Fresno rigation District (FID) water deliveries. As such, an CC value for irrigated land was used for the 7 ɔres of Ra soil that are irrigated, while the ɔnirrigated LCC value was used for the remaining ɔreages of nonirrigated soil for each soil type in the ʻoject site.

ccording to the USDA NRCS Web Soil Survey, amona sandy loam has a Storie Index score of 95, ŋd San Joaquin sandy loam, 0 to 3 percent slopes, ILRA 17 has a Storie Index score of 16.

**Calculation of the Land Evaluation (LE) Score**

**Part 1. Land Capability Classification (LCC) Score:**

(1) Determine the total acreage of the project.
(2) Determine the soil types within the project area and enter them in **Column A** of the **Land Evaluation Worksheet** provided on page 2-A.
(3) Calculate the total acres of each soil type and enter the emounts in **Column B.**
(4) Divide the ecres of each soil type (**Column B**) by the total acreage to determine the proportion of each soil type present. Enter the proportion of each soil type in **Column C.**
(5) Determine the LCC for each soil type from the applicable Soil Survey and enter it in **Column D.**
(6) From the LCC Scoring Table below, determine the point rating corresponding to the LCC for each soil type and enter it in **Column E.**

LCC Scoring Table

| LCC Class | I | IIe | IIs,w | IIIe | IIIs,w | IVe | IVs,w | V | VI | VII | VIII |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Points | 100 | 90 | 80 | 70 | 60 | 50 | 40 | 30 | 20 | 10 | 0 |

(7) Multiply the proportion of each soil type (**Column C**) by the point score (**Column E**) and enter the resulting scores in **Column F.**
(8) Sum the LCC scores in **Column F.**
(9) Enter the LCC score in box <1> of the **Final LESA Score Sheet** on page 10-A.

**Part 2. Storie Index Score:**

(1) Determine the Storie Index rating for each soil type and enter it in **Column G.**
(2) Multiply the proportion of each soil type (**Column C**) by the Storie Index rating (**Column G**) and enter the scores in **Column H.**
(3) Sum the Storie Index scores in **Column H** to gain the Storie Index Score.
(4) Enter the Storie Index Score in box <2> of the **Final LESA Score Sheet** on page 10-A.

**Land Evaluation Worksheet**

**Land Capability Classification (LCC) and Storie Index Scores**

| A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|
| Soil Map Unit | Project Acres | Proportion of Project Area | LCC | LCC Rating | LCC Score | Storie Index | Storie Index Score |
| Ra | 29.93 | 0.7994 | IVc | 40 | 31.976 | 95 | 75.943 |
| ScA | 0.51 | 0.0136 | IVs | 40 | 0.544 | 16 | 0.2176 |
| Ra | 7.0 | 0.1870 | I | 100 | 18.7 | 95 | 17.765 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| ***Totals*** | 37.44 | (Must Sum to 1.0) | | ***LCC Total Score*** | 51.22 | ***Storie Index Total Score*** | 93.9256 |

**Site Assessment Worksheet 1.**

**Project Size Score**

| | I | J | K |
|---|---|---|---|
| | LCC Class I - II | LCC Class III | LCC Class IV - VIII |
| | | | 29.93 |
| | | | 0.51 |
| | 7.0 | | |
| | | | |
| | | | |
| | | | |
| ***Total Acres*** | 7.0 | | 30.44 |
| ***Project Size Scores*** | 0 | | 0 |

***Highest Project Size Score*** 0

*LESA Worksheet (cont.)*

***NOTES***

Column I - 7.0 acres of Class I soils corresponds to a score of 0 points.
Column K - 30.44 acres of Class IV soils corresponds to a score of 0 points.

## Caiculiation of the Site Assessment (SA) Score

**Part 1. Project Size Score:.**

(1) Using **Site Assessment Worksheet 1** provided on page 2-A, enter the acreage of each soil type from **Column B** in the **Column - I, J or K** - that corresponds to the LCC for that soil. (Note: While the Project Size Score is a component of the Site Assessment calculations, the score sheet is an extension of data collected in the Land Evaluation Worksheet, and is therefore displayed beside it).
(2) Sum **Column I** to determine the total amount of class I and II soils on the project site.
(3) Sum **Column J** to determine the total amount of class III soils on the project site.
(4) Sum **Column K** to determine the total amount of class IV and lower soils on the project site.
(5) Compare the total score for each LCC group in the Project Size Scoring Table below and determine which group receives the highest score.

Project Size Scoring Table

| **Class I or II** | | **Class III** | | **Class IV or Lower** | |
|---|---|---|---|---|---|
| Acreage | Points | Acreage | Points | Acreage | Points |
| >80 | 100 | >160 | 100 | >320 | 100 |
| 60-79 | 90 | 120-159 | 90 | 240-319 | 80 |
| 40-59 | 80 | 80-119 | 80 | 160-239 | 60 |
| 20-39 | 50 | 60-79 | 70 | 100-159 | 40 |
| 10-19 | 30 | 40-59 | 60 | 40-99 | 20 |
| 10< | 0 | 20-39 | 30 | 40< | 0 |
| | | 10-19 | 10 | | |
| | | 10< | 0 | | |

(6) Enter the **Project Size Score** (the highest score from the three LCC categories) in box <3> of the **Final LESA Score Sheet** on page 10-A.

*LESA Worksheet (cont.)*

## NOTES

he 37.44-acre project site is made up of two parcels, ssessor's Parcel Numbers (APNs) 556-010-28 and 56-010-29.

PN 556-010-29, which represents approximately 3.93 acres of the project site, has an existing roundwater well that currently provides water to the roperty owner's existing residence onsite, and was reviously used for agricultural irrigation; however, the ell at this parcel has experienced continued decline in roundwater and is no longer usable for irrigation. This ortion of the project site is also located within the FID oundary and is entitled to receive surface water eliveries. However, drought conditions in the gion have resulted in dwindling surface water upplies, and the increasing utility costs for surface ater supplies when available have placed conomic restrictions on irrigation of the project site. ince the onsite well was rendered unusable for gricultural irrigation, and the high cost of FID water eliveries limits the irrigation water supply for the ite during non-drought years, only approximately 7 cres of this portion of the site are irrigated via FID water eliveries during non-drought years, while the remaining nd is not irrigated and left fallow. During drought years, rigation is infeasible and agricultural fields within this arcel are left fallow. Therefore, a water resource vailability score of 45 was used for this portion of the roject site.

PN 556-010-28, which represents approximately 3.51 acres of the project site, does not have an xisting water source for irrigation. There are no roundwater wells located on this parcel. This parcel is ot entitled to receive FID surface water deliveries. dditionally, this portion of the project site is currently utside of the City of Clovis and is not legally entitled to eceive any municipal water deliveries. Therefore, a ater resource availability score of 20 was used for is portion of the project site.

## Part 2. Water Resource Availability Score:

(1) Determine the type(s) of irrigation present on the project site, including a determination of whether there is dryland agricultural activity as well.

(2) Divide the site into portions according to the type or types of irrigation or dryland cropping that is available in each portion. Enter this information in **Column B** of **Site Assessment Worksheet 2. - Water Resources Availability**.

(3) Determine the proportion of the total site represented for each portion identified, and enter this information in **Column C**.

(4) Using the Water Resources Availability Scoring Table, identify the option that is most applicable for each portion, based upon the feasibility of irrigation in drought and non-drought years, and whether physical or economic restrictions are likely to exist. Enter the applicable Water Resource Availability Score into **Column D**.

(5) Multiply the Water Resource Availability Score for each portion by the proportion of the project area it represents to determine the weighted score for each portion in **Column E**.

(6) Sum the scores for all portions to determine the project's total Water Resources Availability Score

(7) Enter the Water Resource Availability Score in box <4> of the **Final LESA Score Sheet** on page 10-A.

**Site Assessment Worksheet 2. - Water Resources Availability**

| A | B | C | D | E |
|---|---|---|---|---|
| Project Portion | Water Source | Proportion of Project Area | Water Availability Score | Weighted Availability Score (C x D) |
| 1 | FID Surface Water Delivery | 0.6392 | 45 | 28.764 |
| 2 | None Available | 0.3608 | 20 | 7.216 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| | | (Must Sum to 1.0) | ***Total Water Resource Score*** | 35.98 |

**Water Resource Availability Scoring Table**

| Option | Non-Drought Years | | | Drought Years | | | WATER RESOURCE SCORE |
|---|---|---|---|---|---|---|---|
| | RESTRICTIONS | | | RESTRICTIONS | | | |
| | Irrigated Production Feasible? | Physical Restrictions ? | Economic Restrictions ? | Irrigated Production Feasible? | Physical Restrictions ? | Economic Restrictions ? | |
| 1 | YES | NO | NO | YES | NO | NO | 100 |
| 2 | YES | NO | NO | YES | NO | YES | 95 |
| 3 | YES | NO | YES | YES | NO | YES | 90 |
| 4 | YES | NO | NO | YES | YES | NO | 85 |
| 5 | YES | NO | NO | YES | YES | YES | 80 |
| 6 | YES | YES | NO | YES | YES | NO | 75 |
| 7 | YES | YES | YES | YES | YES | YES | 65 |
| 8 | YES | NO | NO | NO | -- -- | -- -- | 50 |
| 9 | YES | NO | YES | NO | -- -- | -- -- | 45 |
| 10 | YES | YES | NO | NO | -- -- | -- -- | 35 |
| 11 | YES | YES | YES | NO | -- -- | -- -- | 30 |
| 12 | Irrigated production not feasible, but rainfall adequate for dryland production in both drought and non-drought years | | | | | | 25 |
| 13 | Irrigated production not feasible, but rainfall adequate for dryland production in non-drought years (but not in drought years) | | | | | | 20 |
| 14 | Neither irrigated nor dryland production feasible | | | | | | 0 |

*LESA Worksheet (cont.)*

***NOTES***

As shown in Figure 2, the total acreage of the Zone of Influence (ZOI) is 496.25 acres, and 461.45 acres of the ZOI are under agricultural production (based on the California Department of Conservation Farmland Mapping and Monitoring Program). Approximately 93 percent of the ZOI is under agricultural production. Therefore, the Surrounding Agricultural Land Score equates to 100 points.

## Part 3. Surrounding Agricultural Land Use Score:

(1) Calculate the project's Zone of Influence (ZOI) as follows:
(a) a rectangle is drawn around the project such that the rectangle is the smallest that can completely encompass the project area.
(b) a second rectangle is then drawn which extends one quarter mile on all sides beyond the first rectangle.
(c) The ZOI includes all parcels that are contained within or are intersected by the second rectangle, less the area of the project itself.
(2) Sum the area of all parcels to determine the total acreage of the ZOI.
(3) Determine which parcels are in agricultural use and sum the areas of these parcels
(4) Divide the area in agriculture found in step (3) by the total area of the ZOI found in step (2) to determine the percent of the ZOI that is in agricultural use.
(5) Determine the Surrounding Agricultural Land Score utilizing the Surrounding Agricultural Land Scoring Table below.

**Surrounding Agricultural Land Scoring Table**

| Percent of ZOI in Agriculture | Surrounding Agricultural Land Score |
|---|---|
| 90-100 | 100 |
| 80-89 | 90 |
| 75-79 | 80 |
| 70-74 | 70 |
| 65-69 | 60 |
| 60-64 | 50 |
| 55-59 | 40 |
| 50-54 | 30 |
| 45-49 | 20 |
| 40-44 | 10 |
| <40 | 0 |

(5) Enter the Surrounding Agricultural Land Score in box <5> of the **Final LESA Score Sheet** on page 10-A.

**Site Assessment Worksheet 3.**
**Surrounding Agricultural Land and Surrounding Protected Resource Land**

| A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|
| **Zone of Influence** | | | | | | |
| Total Acres | Acres in Agriculture | Acres of Protected Resource Land | Percent in Agriculture (A/B) | Percent Protected Resource Land (A/C) | Surrounding Agricultural Land Score (From Table) | Surrounding Protected Resource Land Score (From Table) |
| 496.25 | 461.45 | 0 | 93 | 0 | 100 | 0 |

*LESA Worksheet (cont.)*

***NOTES***

As shown in Figure 3, the total acreage of the ZOI is 496.25 acres. No portion of the ZOI consists of protected resource lands, defined as Williamson Act contracted lands; publicly owned lands maintained as park, forest, or watershed resources; and lands with agricultural, wildlife habitat, open space, or other natural resource easements that restrict the conversion of such land to urban or industrial uses. As such, the Surrounding Protected Resource Score equates to 0 points.

## Part 4. Protected Resource Lands Score:

The Protected Resource Lands scoring relies upon the same Zone of Influence information gathered in Part 3, and figures are entered in Site Assessment Worksheet 3, which combines the surrounding agricultural and protected lands calculations.

(1) Use the total area of the ZOI calculated in Part 3. for the Surrounding Agricultural Land Use score.
(2) Sum the area of those parcels within the ZOI that are protected resource lands, as defined in the California Agricultural LESA Guidelines.
(3) Divide the area that is determined to be protected in Step (2) by the total acreage of the ZOI to determine the percentage of the surrounding area that is under resource protection.
(4) Determine the Surrounding Protected Resource Land Score utilizing the Surrounding Protected Resource Land Scoring Table below.

**Surrounding Protected Resource Land Scoring Table**

| Percent of ZOI Protected | Protected Resource Land Score |
|---|---|
| 90-100 | 100 |
| 80-89 | 90 |
| 75-79 | 80 |
| 70-74 | 70 |
| 65-69 | 60 |
| 60-64 | 50 |
| 55-59 | 40 |
| 50-54 | 30 |
| 45-49 | 20 |
| 40-44 | 10 |
| <40 | 0 |

(5) Enter the Protected Resource Land score in box <6> of the **Final LESA Score Sheet** on page 10-A.

*LESA Worksheet (cont.)*

## Final LESA Score Sheet

**Calculation of the Final LESA Score:**

(1) Multiply each factor score by the factor weight to determine the weighted score and enter in Weighted Factor Scores column.
(2) Sum the weighted factor scores for the LE factors to determine the total LE score for the project.
(3) Sum the weighted factor scores for the SA factors to determine the total SA score for the project.
(4) Sum the total LE and SA scores to determine the Final LESA Score for the project.

| | Factor Scores | Factor Weight | Weighted Factor Scores |
|---|---|---|---|
| **LE Factors** | | | |
| Land Capability Classification | <1> 51.22 | 0.25 | 12.805 |
| Storie Index | <2> 93.9256 | 0.25 | 23.4814 |
| *LE Subtotal* | | ***0.50*** | 36.2864 |
| **SA Factors** | | | |
| Project Size | <3> 0 | 0.15 | 0 |
| Water Resource Availability | <4> 35.98 | 0.15 | 5.397 |
| Surrounding Agricultural Land | <5> 100 | 0.15 | 15 |
| Protected Resource Land | <6> 0 | 0.05 | 0 |
| *SA Subtotal* | | ***0.50*** | 20.397 |
| | | **Final LESA Score** | 56.6834 |

### *NOTES*

e component LE and SA factors have been tered into the Final LESA Score Sheet.

e LE factor scores are multiplied by the factor eights to determine the weighted score for ch. The weighted LE factor scores are mmed to determine the LE portion of the Final SA score.

e SA factor scores are multiplied by the factor eights to determine the weighted score for ch. The weighted SA factor scores are mmed to determine the SA portion of the Final SA score.

e LE and SA subtotals are summed to termine the Final LESA Score. The nal LESA Score for the proposed oject is 56.6834 points. A final score between to 59 points is considered significant only if e LE and SA subscores are each greater than equal to 20 points. Both the LE and SA bscores for the project are greater than 20 ints. Therefore, the LESA Model concludes at the conversion of the agricultural land rime Farmland, Farmland of Statewide portance, and Farmland of Local Importance) the project site to a non-agricultural use ould constitute a significant impact.

For further information on the scoring thresholds under the California Agricultural LESA Model, consult Section 4 of the Instruction Manual.




LSA

Project Location - 37.44 acres

FIGURE 1

Soils

Ra - Ramona sandy loam - 36.93 acres

ScA - San Joaquin sandy loam, 0 to 3 percent slopes, MLRA 17 - 0.51 acres

0 200 400

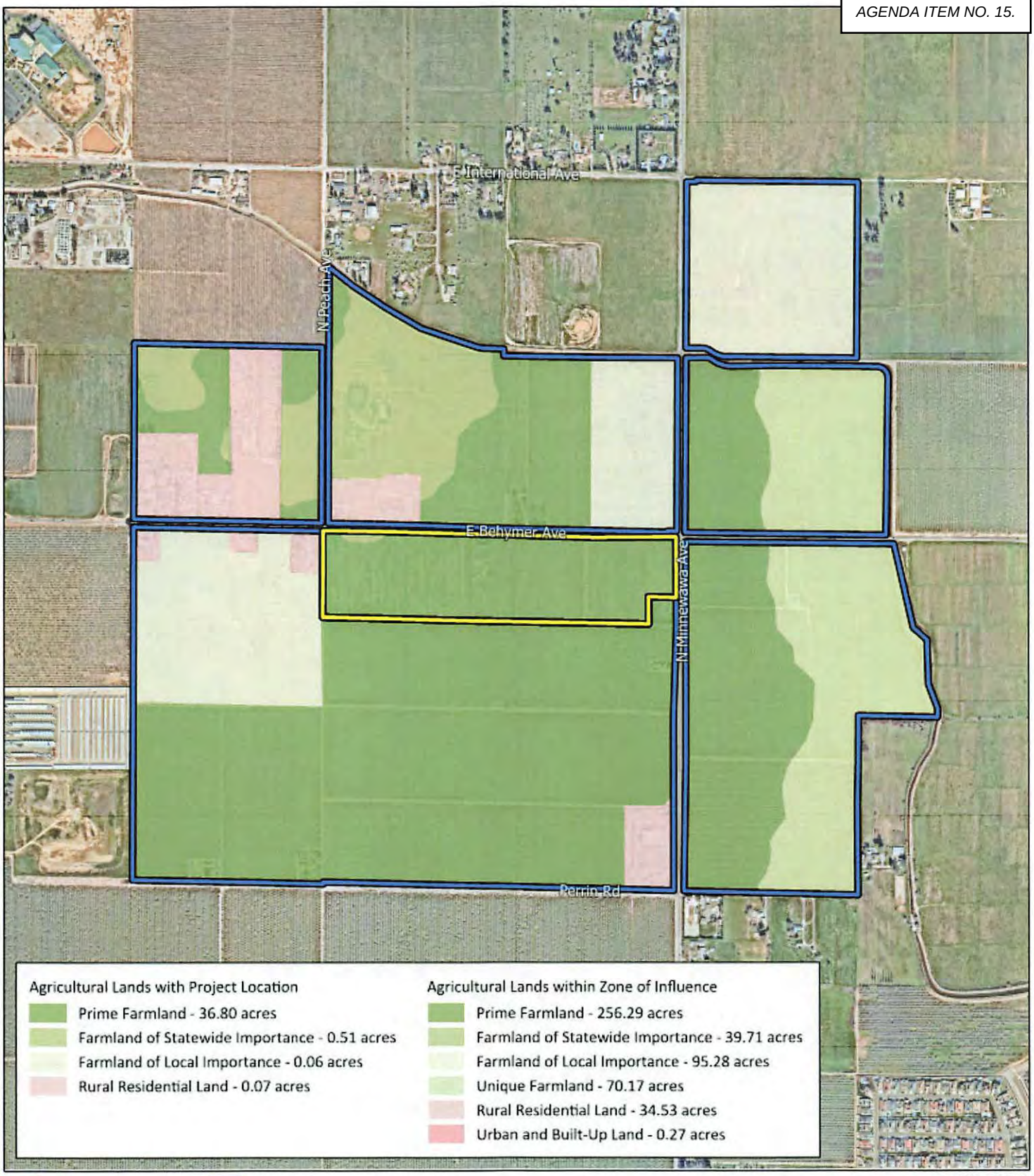
FEET

*Peach and Behymer Residential Project*

Soils

SOURCE: Nearmap (02/2024); USDA SSURGO (2024)

I:\20241700 De Young Peach Behymer\GIS\Pro\Peach and Behymer Residential Project\Peach and Behymer Residential Project.aprx (5/17/2024)




LSA

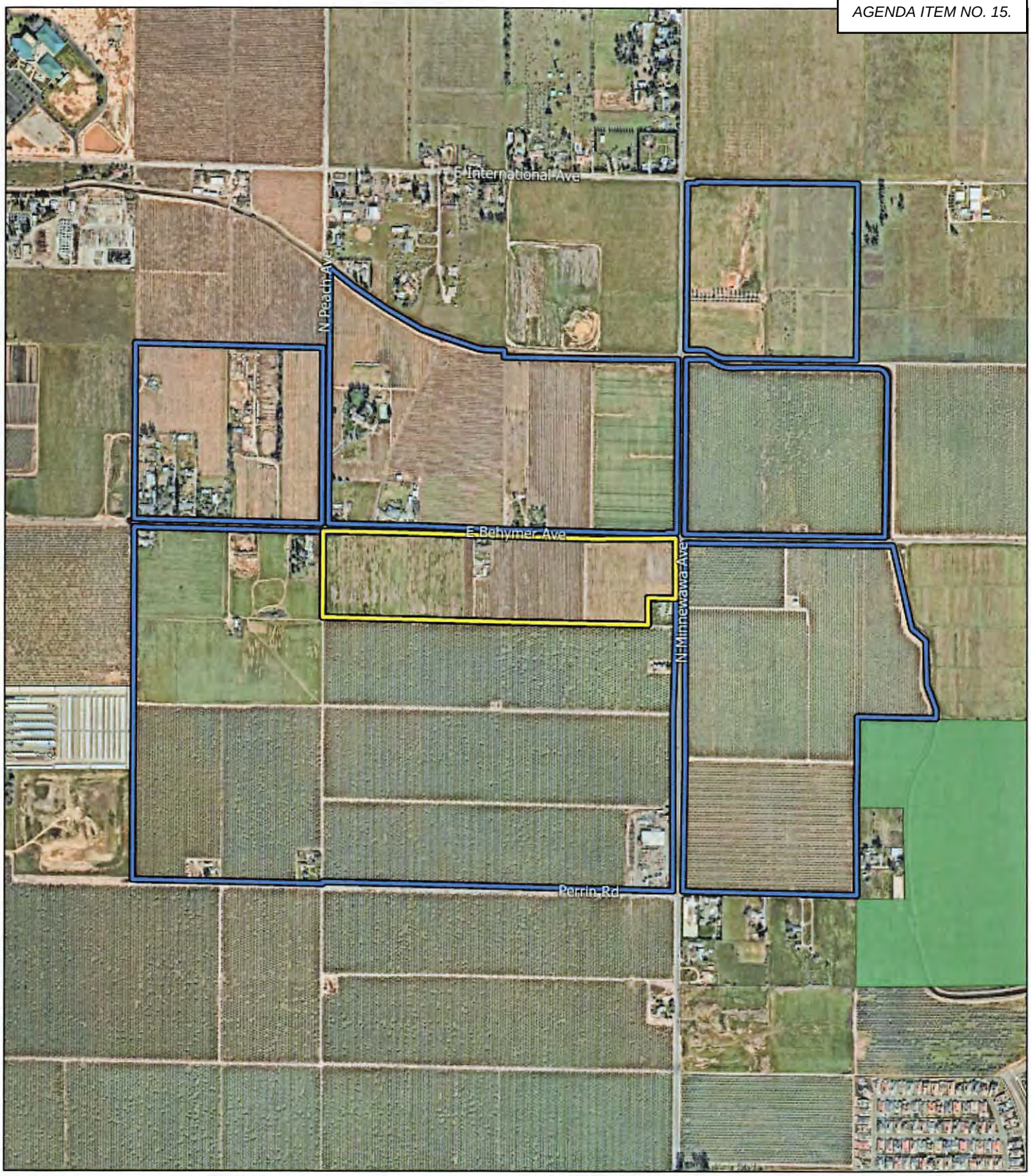
FIGURE 2

SOURCE: USGS The National Map (2018)

*Peach and Behymer Residential Project*

Zone of Influence Agricultura

I:\20241700 De Young Peach Behymer\GIS\Pro\Peach and Behymer Residential Project\Peach and Behymer Residential Project.aprx (5/15/2024)




LSA

Project Location - 37.44 acres
Zone of Influence - 496.25 acres

Williamson Act Enrollment 2023
Prime Agriculture Land
Nonprime Agriculture Land
Nonrenewal
Farmland Security Zone
Mixed Enrollment Agriculture Land

FIGURE 3

0 500 1000
FEET

*Peach and Behymer Residential Project*

Zone of Influence Protected Resourc

SOURCE: Nearmap (02/2024); CDOC (2023)

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CITY of CLOVIS
PLANNING & DEVELOPMENT
1033 FIFTH STREET • CLOVIS, CA 93612

# SPECIFIC SERVICE PLAN
# PEACH-BEHYMER SOUTHEAST REORGANIZATION
# RO311

## 1.1 INTRODUCTION

A Site Specific Service Plan for providing services and improvements to land being annexed to the City is required by the Fresno Local Agency Formation Commission (LAFCo). The site specific service plan provides assurance to LAFCo that newly annexed land to the City will be properly served as urban territory. The service plan also provides information to property owners, districts and interesting parties who may have projects underway within the vicinity of the proposed annexation.

On November 21, 2024, the Clovis Planning Commission conducted a noticed public hearing and adopted a resolution recommending approval of the following applications:

a. Adoption of an environmental finding of a mitigated negative declaration and a mitigation monitoring and reporting program for Reorganization (RO) 311, Prezone (R) 2024-002, Vesting Tentative Tract Map (TM) 6482, and Planned Development Permit (PDP) 2024-002.

b. Rezone 2024-006, approving a request to prezone the properties within the annexation area from the Fresno County AE-20 Zone District to the Clovis R-1-PRD Zone District.

c. Vesting Tentative Tract Map 6482, approving a request for a 266-lot single-family planned residential development on approximately 37.92 acres of land subject to the City Council's approval of the annexation.

d. Planned Development Permit 2024-002, approving a request to approve a planned development permit for a 266-lot single-family residential development.

On December 16, 2024, the Clovis City Council conducted a noticed public hearing and took action to approve the following applications:

a. Adoption of an environmental finding of a mitigated negative declaration and a mitigation monitoring and reporting program for Reorganization (RO) 311, Prezone (R) 2024-002, Vesting Tentative Tract Map (TM) 6482, and Planned Development Permit (PDP) 2024-002.

b. Rezone 2024-006, approving a request to prezone the properties within the annexation from the Fresno County AE-20 Zone District to the Clovis R-1-PRD Zone District.

c. Vesting Tentative Tract Map 6482, approving a request for a 266-lot single-family planned residential development on approximately 37.92 acres of land subject to the City Council's approval of the annexation.

d. Planned Development Permit 2024-002, approving a request to approve a planned development permit for a 266-lot single-family residential development.

On December 16, 2024, the Clovis City Council adopted a resolution addressing Reorganization RO311, requesting the Fresno Local Agency Formation Commission (LAFCo) take proceedings for the reorganization of the territory known as the Peach-Behymer Southeast Reorganization.

## 1.2 SERVICES EXISTING OR PROPOSED

### 1. Community Water Service

The Water Master Plan Update, completed in 2017, by Provost & Pritchard Consulting Group, was prepared to support the 2014 Clovis General Plan, and the development plans therein. The plan examined the feasibility of continued growth in the greater Clovis area from a water resource perspective. This included a review of existing and future demands for water from surface, groundwater, and reclaimed water. The study area corresponded with the General Plan planning area. The 2015 Urban Water Management Plan updated the water supply and demand issues identified in the 2017 Master Plan.

The City and Tarpey Village have 37 domestic water wells to provide for the needs of its residents. Some of these have wellhead treatment facilities to treat contaminated groundwater. The wells discharge water into a distribution main grid, based on a minimum of 12-inch mains, spaced at half-mile intervals. The present water storage facilities consist of one elevated tank and three ground level tanks. The total storage capacity is 7 million gallons.

The City began operations of the Surface Water Treatment Facility, located on the Enterprise Canal on the east side of Clovis, in 2004. Kings River water is supplied to the plant via Fresno Irrigation District's (FID) Enterprise Canal. This 15 million gallon-per-day (MGD) plant allows Clovis to serve existing users and new growth areas, while lessening the demand on groundwater. In 2014, treatment capacity at the SWTF was increased to 22.5 MGD.

In 2009, the City began operation of the Water Reuse Facility (WRF) to treat wastewater from a portion of the City's growth areas. In 2012, the City began using recycled water from this facility to irrigate public landscapes. At build-out of the system, this facility will be able to produce 8.4 MGD of recycled water.

The strategy for future water supply is termed "conjunctive use" where multiple elements are used to provide a secure long-term supply. It includes using both groundwater and treated surface water to ensure a secure drought-resistant water supply with the flexibility to use surface and groundwater supplies in a cost and operationally-efficient manner. This strategy is conducive to phased development that is critical to both community approval and existing operational constraints.

Water systems for newly developed areas, such as the project site, will be financed by development fees, assessment districts, and capital facilities funding. Additional surface water supplies for certain growth areas will be financed by the Water Supply development fee.

### 2. Water

The following water conditions have been placed on the project:

1. The applicant shall identify and abandon all water wells to City standards.

2. The applicant shall install water mains of the sizes and in the locations indicated below, and provide an adequately looped water system prior to occupancy. The water improvements shall be in accordance with the City's master plans and shall match existing improvements. The applicant's engineer shall be responsible for verifying the size, location, and elevations of

existing improvements. Any alternative routing of the mains shall require approval of the City Engineer and shall be supported by appropriate calculations.

a. Behymer Avenue – install 16" main along between Peach and Minnewawa Avenues.
b. Behymer Avenue – install 16" main between Minnewawa and Clovis Avenues.
c. Behymer Avenue – install 12" main between Willow and Peach Avenues.
d. Behymer Avenue – install 24" main between Clovis and Baron Avenues
e. Perrin Avenue – install 12" main between Willow and Chapel Hill Avenues.
f. Palisde Avenue – install 12" main between Chapel Hill and Peach Avenues
g. Peach Avenue – install 12" main between Palisade and Behymer Avenues.
h. Interior Streets – install 8"mains.
i. Install water storage tank T-6 per the Water Master Plan. The City Engineer shall determine the timing for the installation of T-6 by a future City CIP project.

3. The applicant shall install a City standard water service to each lot of the proposed subdivision. Water services shall be grouped at property lines to accommodate automatic meter reading system, including installation of connecting conduit. The water meter shall be placed in the sidewalk and not in planters or driveways.

4. All existing water services that will not be used with this development shall be abandoned by closing the service's corporation stop and creating a physical separation between the corporation stop and the service.

5. The applicant shall notify all property owners' annexed to the City and along streets where a new water main will be constructed to determine if they wish to be connected to City water. Property owners shall work directly with the applicant regarding costs and location. The applicant shall notify property owners that water connection fees are required if they choose to connect.

6. Prior to recording a final map of any phase, the applicant shall demonstrate to the satisfaction of the City Fire Chief and City Engineer that there is adequate water pressure to serve the units to be constructed. The applicant shall work with the City Engineer to determine the adequacy of water supply/pressure for the proposed development.

7. Applicant acknowledges that water distribution and treatment capacity for the area within which the proposed subdivision is located is extremely limited, and that distribution may not be available to provide service for the proposed subdivision at such time as applicant is ready to seek approval of a final map. Applicant acknowledges, understands, and agrees that if such water distribution and treatment capacity is not available to serve the proposed subdivision, as determined in the sole and absolute discretion of the City of Clovis, the final map may not be approved. Notwithstanding the foregoing, applicant has freely and voluntarily chosen to proceed with the submittal and processing of the tentative map, intends to expend money, time and effort in connection therewith, and accepts the risks that the final map approval may be delayed until sufficient distribution is available as determined in the sole and absolute discretion of the City of Clovis. Applicant agrees to hold harmless and indemnify the City of Clovis from any and all claims, costs, expenses, and damages incurred or suffered by applicant, its principals, officers, employees, agents, or contractors, caused by, in connection with, or arising out of the unavailability of water distribution or treatment capacity to serve the proposed subdivision, or the City's refusal or failure to approve a final map for the proposed subdivision because of the unavailability of water distribution or treatment capacity.

### 3. Recycled Water

The following recycled water conditions have been placed on the project:

8. The applicant shall install recycled water mains of the sizes and in the locations indicated below. The recycled water improvements shall be in accordance with the City's master plans and shall match existing improvements. All areas utilizing recycle water for irrigation shall be clearly marked on the improvement plans. The applicant's engineer shall be responsible for verifying the size, location, and elevations of existing improvements. Any alternative routing of the mains shall require approval of the City Engineer and may require appropriate calculations.

    a. Paseos, Trails, and Neighborhood Parks – install mains as necessary to serve the paseos, trails, and the neighborhood parks.

### 4. Wastewater

The Fresno-Clovis Regional Wastewater Treatment Facility serves the Fresno and Clovis urban area from its location southwest of the two cities. The City of Clovis owns and maintains sewer lines within the City Sphere of Influence, with the exception of the Tarpey Village area, which is maintained by the City of Fresno. The City operates the Water Reuse Facility which treats wastewater from a portion of the City and provides recycled water for use in public landscapes. This facility will be expanded as required to serve portions of the northwest and northeast growth areas. The City does not have sewer collection facilities constructed for the entire current Sphere of Influence at this time, but all areas have been master planned.

The Clovis Wastewater Master Plan Update in 2017 provided the City with a course of action with respect to wastewater service needs through the year 2035, in keeping with the Clovis General Plan.

Wastewater facilities for newly developed areas will be financed by development fees, assessment districts, and capital facilities funding.

The following sewer conditions have been placed on the project:

9. The applicant shall identify and abandon all septic systems to City standards.

10. The applicant shall install sanitary sewer mains of the size and in the locations indicated below, prior to occupancy. The sewer improvements shall be in accordance with the City's master plans and shall match existing improvements. The applicant's engineer shall be responsible for verifying the size, location, and elevations of existing improvements. Any alternative routing of the mains shall require approval of the City Engineer and shall be supported by appropriate calculations. The improvements indicated below will provide temporary service until the improvements are installed that provide permanent service.

    a. Behymer Avenue – install 16" main along between Peach and Minnewawa Avenues.

    b. Peach Avenue – install 12" main between Pallisade and Behymer Avenues.

    c. Interior Streets – install 8" mains.

11. The applicant shall install one (1) 4" sewer service house branch to each lot within the tentative tract.

12. All existing sewer services that will not be used with this development shall be abandoned by cutting and capping the service at the right-of-way line.

13. The applicant shall notify all property owners annexed to the City and along streets where a new sewer main will be constructed to determine if they wish to be connected to City sewer. Property owners shall work directly with the applicant regarding costs and location. The applicant shall notify property owners that sewer connection fees are required if they choose to connect.

14. The City cannot guarantee at this time that sewer capacity will be available for this development when site construction occurs. The applicant, therefore, waives any claim or demand against the City for any delay in availability of sewer capacity for this subdivision.

15. Applicant acknowledges that sewage collection and treatment capacity for the area within which the proposed subdivision is located is extremely limited, and that capacity may not be available to provide service for the proposed subdivision at such time as applicant is ready to seek approval of a final map. Applicant acknowledges, understands, and agrees that if such sewage collection and treatment capacity is not available to serve the proposed subdivision, as determined in the sole and absolute discretion of the City of Clovis, the final map may not be approved. Notwithstanding the foregoing, applicant has freely and voluntarily chosen to proceed with the submittal and processing of the tentative map, intends to expend money, time and effort in connection therewith, and accepts the risks that the final map approval may be delayed until sufficient capacity is available as determined in the sole and absolute discretion of the City of Clovis. Applicant agrees to hold harmless and indemnify the City of Clovis from any and all claims, costs, expenses, and damages incurred or suffered by applicant, its principals, officers, employees, agents, or contractors, caused by, in connection with, or arising out of the unavailability of sewage collection or treatment capacity to serve the proposed subdivision, or the City's refusal or failure to approve a final map for the proposed subdivision because of the unavailability of sewage collection or treatment.

**5. Dedications and Street Improvements**

The following street conditions have been placed on the project:

16. The applicant shall provide right-of-way acquisition or dedicate free and clear of all encumbrances and/or improve the following streets to City standards. The street improvements shall be in accordance with the City's specific plans and shall match existing improvements. The applicant's engineer shall be responsible for verifying the type, location, and grades of existing improvements.

    a. Behymer Avenue – Along frontage between Minnewawa Ave and Peach Ave, dedicate to provide right-of-way acquisition for 58' (exist 20' south) south of section line and 27' (exist 20') north of section line, and improve with curb, gutter, sidewalk, drive approaches, curb return ramps, street lights, fiber optic conduit, median island, median island landscaping and irrigation, landscape strip, 39' (28' South of centerline + 11' North of centerline) permanent paving, permanent paving and overlay as necessary to match the existing permanent pavement, 3' paved swale, and transitional paving as needed.

    b. Minnewawa Avenue – Along frontage, dedicate to provide right-of-way acquisition for 70.5' (exist 30') west of section line and 24.5' (exist 30') east of section line, and improve with curb, gutter, sidewalk, drive approaches, curb return ramps, street lights, fiber optic conduit, median island, median island landscaping and irrigation, landscape strip, 29' (22.5' West of centerline +16.5' East of centerline) permanent paving, permanent paving and overlay as necessary to match the existing permanent pavement, 3' paved swale, and transitional paving as needed.

    c. Peach Avenue – Along frontage, dedicate to provide right-of-way acquisition for 56.5' (exist 30') east of section line and 24.5' (exist 30') west of section line, and improve with curb, gutter, sidewalk, drive approaches, curb return ramps, street lights, fiber optic conduit, median island, median island landscaping and irrigation, landscape

strip, 39' (22.5’ East of centerline +16.5’ West of centerline) permanent paving, permanent paving and overlay as necessary to match the existing permanent pavement, 3' paved swale, and transitional paving as needed.

d. Interior Streets – Dedicate to provide for 50’ or 54’ of right-of-way in conformance with the City policy on street widths, and improve with curb, gutter, 5’ sidewalk adjacent to the curb, drive approaches, curb return ramps, streetlights, permanent paving, and all transitional paving as needed.

e. Entry feature streets with median islands shall have a minimum of 22’ wide travel lanes in each direction with parking or without parking.

f. Temporary Turnabouts – Dedicate to provide for a 48' radius and install 45' of permanent/temporary paving plus 3' paved swale.

g. Install a traffic signal at Behymer and Minnewawa Avenues and provide the necessary right-of-way for the signal in its ultimate location.

h. Install all-way stop signs at Behymer and Peach Avenues.

i. Provide for the design of a traffic signal at Minnewawa and Perrrin Avenues.

j. The applicant shall relinquish all access to Peach, Behymer, and Minnewawa Avenues.

17. The applicant shall provide a dedication for a 10' public utility easement, where applicable, along all public frontages. The applicant shall be responsible for obtaining approval by the utilities companies where alternate widths are provided. The applicant shall provide to the City copies of all final easements prior to final map acceptance.

18. For new onsite ADA paths of travel that connect to the City sidewalk, the applicant shall replace enough sidewalk to provide a compliant landing with appropriate transitions to existing sidewalk grades.

19. The applicant shall remove and repair all damaged or broken concrete improvements. The City Engineer may require the repair of additional improvements if they are damaged prior to occupancy.

20. The applicant shall not install any fences, temporary or permanent in public right-of-way.

21. The applicant shall provide preliminary title report, legal description and drawings for all dedications required which are not on the site. All contact with owners, appraisers, etc. of the adjacent properties where dedication is needed shall be made only by the City. The City will prepare an estimate of acquisition costs including but not limited to appraised value, appraisal costs, negotiation costs, and administrative costs. The applicant shall pay such estimated costs as soon as they are determined by the City.

22. The sideyard side of all corner lots shall have full width sidewalk except where planter strips or meandering sidewalk is proposed.

23. The applicant shall obtain "R Value" tests in quantity sufficient to represent all street areas, and have street structural sections designed by a registered civil engineer based on these "R Value" tests.

24. The applicant shall, at the ends of any permanent pavement abutting undeveloped property, install 2" x 6" redwood header boards that shall be placed prior to the street surfacing.

25. Standard barricades with reflectors shall be installed at ends of streets abutting undeveloped property and any other locations to be specified by the City Engineer.

## 6. Solid Waste Collection

Refuse Collection collects and disposes of solid waste generated by residential and commercial customers located within the City. Private vendors, under City contract, collect waste from select commercial customers and recyclables and yard wastes from residential customers. For improved cost accounting and control, the Refuse Collection Unit is further organized into four sub-accounts identified as Administration, Residential, Commercial, and Community Cleanup.

Refuse Landfill conducts all operations necessary to landfill City refuse in accordance with county, state, and federal requirements. The Clovis landfill is an active Class III landfill which accepts municipal solid waste that is currently permitted through the year 2053.

Refuse Contracts provides refuse-related services to the community through contracts with private vendors. These include refuse compactor and roll-off services for larger businesses, and residential curbside recycling, and greenwaste programs.

## 7. Fire Protection

The Fire Department employs two primary measures in determining service for the community and future development. The first measure is distribution. “Distribution” describes station locations that allow for a rapid first-due response deployment to mitigate fire and medical aid emergencies before they result in further life/property loss. Distribution is measured by how much of the jurisdiction is covered by first due units within our adopted response time goal of arrival within 5 minutes or less 90% of the time. The second term, “concentration” is a measure of how many multiple units are within sufficient proximity to provide the necessary tools, equipment and personnel, known as an effective response force, for a large scale incident or when another unit is assigned to a concurrent emergency. An initial effective response force is one that has been determined likely to stop the escalation of a fire emergency and bring it effectively under control.

In addition to these factors, Clovis Fire has conducted several station location studies over the last ten years to ensure efficient and effective operations. Stations have generally been located in between 4.5 to 5 mile squares near major street intersections. Previous studies identified various station configurations that could serve City growth depending on the type of development and infrastructure planned for these areas. Currently, the Clovis Fire Department operates out of five fire stations located throughout the City.

In determining desired levels of resource concentration to maintain existing standards and to provide equal protection to future growth areas, the Clovis Fire Department analyzed the risk assessment, call volume, population, critical task analysis, and industry standards. Depending on the factors previously noted, the number of units needed for an initial effective response force are dispatched as defined in the Critical Task Analysis document.

Consideration for community protection must also take into account utilization of Automatic Aid Agreements that provide the closest available resources, regardless of jurisdiction. Using software programs and data from neighboring jurisdictions, fire staff are able to analyze the concentration of units revealing detailed information regarding the deployment of resources necessary to provide an effective fire fighting force within defined response time goals for a geographic area neighboring other fire protection districts.

The Emergency Services Bureau is responsible for providing the resources needed by Fire Department staff who respond daily to requests for emergency and non-emergency services from the citizens of Clovis through four divisions: Operations, Support Services, Training, and Communications. The Operations Division activities include: responding to fires, first responder medical services, mutual/automatic aid, mapping, apparatus replacement, etc. The Training Division activities include coordination of recruitment,

testing and training of new employees, in-service training for all Department employees and coordinated use of the Fire Training Center. Support Services Division activities include: apparatus maintenance, facilities maintenance, station supplies, etc. The Communications Division has responsibility for coordinating dispatch services to the Fire Department. Fire dispatch services are provided via a contract with the Fresno County Emergency Medical Services Division. Dispatch services coordinate the emergency response of all City fire resources and mutual or automatic aid resources. The Department continues to promote sound planning, economic efficiency, and effective use of the City resources while providing essential and valuable services.

The Life Safety and Enforcement Bureau is responsible for providing community risk reduction activities through two divisions: Fire Prevention and Emergency Preparedness. The Fire Prevention Division assists local businesses and building development though activities such as inspections and plan review to ensure safe occupancies comply with fire codes, standards, and local ordinances. Additional risk reduction is performed through public education where citizens learn about actions they can take to reduce their fire risk and learn emergency preparedness skills that are essential during times of crisis. Within the Bureau, the Investigations team has the responsibility to investigate all fires for cause and origin, and enforce minimum standards to safeguard life, health, property, and public welfare.

The Emergency Preparedness Division has the responsibility for preparing and carrying out emergency plans to protect property and the citizens of Clovis in case of actual or threatened conditions of disaster or extreme peril. This includes having an emergency plan in place, maintaining an Emergency Operations Center (EOC), ensuring policies and procedures are compliant with the National Incident Management System (NIMS) guidelines and exercises are conducted to evaluate system effectiveness. Within the Emergency Preparedness section are the Hazardous Materials Response Team and an Urban Search and Rescue Team. These teams are capable of responding to emergency incidents that require specialized tools, equipment, and personnel. Some funding for this division is augmented by state and federal grants.

The Fire Administration Division is responsible for supporting all department operations, administering the Accreditation program, and the development and administration of the Fire Department budget. Fire Administration provides administrative analysis, report preparation, coordination of programs, incident response data management, timekeeping, and other routine duties performed daily that support the delivery of emergency and non-emergency services. Fire Administration also identifies, writes, and manages grants to supplement funding for all Department programs.

The following fire conditions have been placed on the project:

26. Two Points of Access: Any development to this parcel will require a minimum of two (2) points of access to be reviewed and approved by the Clovis Fire Department. All required access drives shall remain accessible during all phases of construction which includes paving, concrete work, underground work, landscaping, perimeter walls. Developments of one- or two-family dwellings where the number of dwelling units exceeds 30 shall be provided with two separate and approved fire apparatus access roads.

27. Street Width for Single Family Residences: Minimum Access Road Width of 36 feet for Single Family Residences. Roads 36 feet or wider allow for Parking on both sides of street.

28. Exception Streets with houses on only one side of the street: Roads 32 feet or greater, to less than 36 feet in width require Fire Lane Markings on one side of the street. Parking is allowed on one side of street.

29. Street Width: Fire apparatus access width shall be determined by measuring from “base of curb” to “base of curb” for roadways that have curbs. When roadways do not have curbs, the measurements shall be from the edge of the roadway surface (approved all weather surface).

30. Turning Radius: All access way roads constructed shall be designed with a minimum outside turning radius of forty-five feet (45').

31. Temporary Street Signs: The applicant shall install temporary street signs that meet City Temporary Street Sign Standard #1.9 prior to issuance of building permits within a subdivision.

32. All Weather Access &Water Supply: The applicant shall provide all weather access to the site during all phases of construction to the satisfaction of the approved Clovis Fire Department Standard #1.2 or #1.3.

33. Private Street Names: Private street names shall be consistent with public street names to the north and south or to the east and west alignments as approved by the Fire Department.

34. Fire Access – Landscape Obstruction: Landscaping trees or shrubs located adjacent to the fire access drives shall be of the type that will not impede fire access due to their growth process.

35. Residential Fire Hydrant: 4 ½" x 2 ½" approved Residential Type fire hydrant(s) and "Blue Dot" hydrant locators, paint fire hydrant(s) yellow with blue top and caps, and paint the curb red shall be installed as specified by the adopted Clovis Fire Department Standard #1.4. Plans shall be submitted to the Clovis Fire Department for review and approval prior to installation. The hydrants shall be charged and in operation prior to any framing or combustible material being brought onto the site. Hydrants curb markings and blue dots to be completed prior to occupancy of any homes.

36. Looped Water Main: The applicant shall install approved looped water main capable of the necessary flow of water for adequate fire protection and approved by the Clovis Fire Department.

**8. Law Enforcement**

The responsibility of the Police Department is to provide protection and police-related services to the community. The Department's mission is to do this in a manner that builds public confidence and improves the quality of life in Clovis. Police headquarters is located at the Clovis Civic Center. Currently, the Police Department is allotted for 112 sworn officers. The current ratio is 0.90 sworn officers per 1,000 residents. In accordance with the recommendations contained in the Police Department Master Service Plan, the Police Department will seek funding to achieve and maintain a ratio of 1.3 officers per 1,000 residents.

Police protection to the unincorporated areas is provided by the Fresno County Sheriff and California Highway Patrol. The City has a mutual aid assistance agreement with both agencies.

The operations of the Police Department, now and as the City grows, will be funded through the General Fund, Community Facilities District (CFD) fund, and grants. It is noted that continued annexation and development without proportionate increase in the funding of safety services will have an effect on the city's ability to maintain acceptable service levels. If unable to maintain acceptable service levels, the department will have to reduce response to certain calls and possibly eliminate other services altogether. This reduction of services will greatly impact our citizens and the quality of life in our community.

The Department is organized into three major divisions, which are composed of seven budgetary sections.

The following Police Department conditions have been placed on the project:

37. Construction work shall be limited to the hours set forth in the Clovis Municipal Code. (CMC § 5.27.604.)

38. It shall be the responsibility of the property owner to maintain the structures and adjoining fences to the project free of graffiti. All forms of graffiti shall be removed within 48 hours. (CMC §§ 5.27.101.)

39. Emergency phone numbers for responsible parties shall be kept current during the building phase of the project.

40. All construction materials shall be located within a secured area or monitored by security staff during non-construction hours.

## 9. Parks & Recreation

The Parks Section provides maintenance to City parks, trails and trail lighting, street landscaping, City trees, and numerous recreational facilities, including playgrounds and picnic sites; maintains Old Town streetscape; and provides grounds maintenance at City administrative facilities. Some of these areas are maintained by Parks personnel, while others are maintained through contracts administered by the Parks section. Parks also provides support for civic activities such as hanging banners and decorating for Christmas, Rodeo Weekend, Big Hat Days, and Farmer's Market. The Parks Section administers the Landscape Maintenance District (LMD), which provides funding for maintenance of certain parks, trails, street landscaping, streetlights, and neighborhood architectural enhancement features for areas within the Landscape Maintenance District. All City owned landscaping that is not within the LMD is funded through the General Fund.

## 10. Transit Services

The Community Services Division administers various senior citizen programs at the Clovis Senior Activity Center. The Division also administers the City's Round-Up demand-response transit program, the fixed-route Stageline transit program, and administers the City's contract with Fresno Area Express (FAX). User fees, and state and federal transit funds and grants support the transit service.

## 11. Storm Drainage

Storm Drain responds to significant rainfall events by providing sand bags, pumping of flooded areas, monitoring stream channels, placing warning signage, and pumping temporary storm drain basins when needed. It also provides pre-storm cleaning of drain inlets to ensure debris do not hamper proper operation of the storm drain collection system. As development occurs, applicants will be required to construct storm drainage facilities in accordance with the standard and requirements of the Fresno Metropolitan Flood Control District. Specific conditions for improvements to the storm drainage system will be issued as development projects are proposed and approved.

## 12. Street Lighting

The City is responsible for maintenance of traffic signals, the cost of energy/repairs/replacements for PG&E-owned streetlights within the City, energy and materials for City-owned streetlights, and maintenance of City-owned streetlights.

The following street light condition has been placed on the project:

41. The applicant shall install street lights. Street lights along the major streets shall be installed on metal poles to local utility provider's standards at the locations designated by the City Engineer. Street light locations shall be shown on the utility plans submitted with the final map for approval. Street lights at future traffic signal locations shall be installed on approved traffic signal poles, including all conduits and pull boxes. Street lights along the major streets shall be owned and maintained by local utility providers. Proof of local utility provider's approval shall be provided. The applicant may install thematic lighting, as approved by the City Engineer. If the applicant chooses to install thematic lighting, the applicant shall provide a conceptual lighting plan identifying adjacent properties that may be incorporated with thematic lights to create a neighborhood effect. Thematic

lighting owned by the City shall be maintained by an additional landscape maintenance assessment.

## 13. Schools

The City of Clovis and its sphere of influence lies primarily within the Clovis Unified School District (CUSD). The portion the sphere of influence within the Loma Vista Specific Plan, east of the Highland Avenue alignment lies within the Sanger Unified School District (SUSD). Only a small portion of the southwest area of the city lies in the Fresno Unified School District (FUSD). These districts are affected by residential growth in the Clovis area. The area of the City serviced by FUSD is fully built-out and future development within the City's sphere of influence will not affect this district.

## 14. Other Services

Pacific Gas and Electric (PG&E) provides gas and electrical service to the City of Clovis, its sphere of influence, and Fresno County. Electrical service is supplied by underground and overhead lines routed through three substations in the greater Clovis area. The hierarchy of establishing electrical power lines from generation stations to customers is as follows: transmission distribution; sub-transmission; and service. PG&E provides gas to customers through plastic and steel underground lines. Residents not serviced by PG&E use propane fuel.

## 15. Financing of Services and Facilities

The City Council has established fiscal policies that govern the city's financial administration and are designed to safeguard the City's assets, provide a stable funding base, and ensure that adequate accounting data are compiled. These accounting data allow for the preparation of various accounting reports such as the annual budget and the annual year-end financial report. Following are the financial policies that provide the basis for the financial direction of the city.

- The City's budget policy states that all operating budgets shall be balanced and ongoing costs will not exceed current revenues plus available fund balance that exceeds reserve requirements. The minimum reserve for any operational fund is 10% of the budgeted expenditures with the goal for reserves of 15% of budgeted expenditures unless capital borrowing or extraordinary fiscal conditions require that higher levels of reserves be maintained. As discussed during the five-year forecast, the General Fund target reserve is now set at 25%, the current General Fund reserve is approximately 16.5%. Budgetary and purchasing controls have been instituted that ensure adherence to the adopted budget.

- The Enterprise Funds are to be fully supported by user fees and charges, and the Internal Services Funds are to be funded at appropriate levels to ensure reasonable ability to respond to unforeseen events. Annually, the City has designated a contribution of general funds to the General Government Services Fund (an Internal Service Fund) to address the building space needs for new fire stations, safety training facilities, regional park facilities, business and industrial parks, upgrades and new technology for improved productivity, and major remodeling, repairs, or additions to existing facilities.

- The City will not issue long-term debt to cover current operations. The City will consider the issuance of long-term debt to purchase/build capital assets when those assets will benefit users over several years and it is determined that it is more equitable to spread the capital investment and financing costs of the asset to current and future users of the asset.

- Annually the City will have an independent audit of its financial records prepared by a certified public accountant pursuant to generally accepted auditing practices of the government finance industry and submit an annual financial report to the City Council by December 31 for the previous fiscal year.

- Fees for services will be charged directly to users of the services when appropriate and should cover the full cost of service delivery. Fees are to be reviewed on an annual basis to ensure that the fee is appropriate for the service provided compared to actual cost or an approved cost index.

- Development impact fees will be established to ensure that new growth pays the cost of infrastructure improvements and is not a burden to existing tax payers.

- The City will invest available cash assets in a manner consistent with the safeguards and diversity that a prudent investor would adhere to with primary emphasis on preservation of principal, sufficient liquidity to cover anticipated payment outflows, and high yields consistent with the first two goals. The City's investments will be consistent with Section 53601 of the Government Code of the State of California that identifies which types of investments are eligible for investment of public funds and the maximum percentage of an investment portfolio that is allowed for any one investment.

The City is in compliance with all of its financial policies.

## 16. California Environmental Quality Act (CEQA) Compliance

The City of Clovis has completed an environmental review (an assessment of the Project's impact on natural and manmade environments) of the proposed project, as required by the State of California. A Mitigated Negative Declaration was approved and adopted by the Clovis City Council in conjunction with its approval of the Project.

# CITY of CLOVIS

## REPORT TO THE CITY COUNCIL

TO: Mayor and City Council

FROM: Planning and Development Services

DATE: December 16, 2024

SUBJECT: Consider various items associated with approximately 201 acres on the east side of N. Minnewawa Avenue, between East Behymer and Shepherd Avenues. Multiple, owners; Lennar Homes, applicant; Yamabe & Horn Engineering Inc., representative.

a. Consider Approval - Res. 24-__, A resolution of the City Council adopting an environmental finding of a mitigated negative declaration and a mitigation monitoring and reporting program for Reorganization 310, Prezone 2024-005, Vesting Tentative Tract Map 6375, and Planned Development Permit 2024-001.

b. Consider Introduction - Ord. 24-__, R2024-005, An ordinance of the City Council approving a request to prezone property within the annexation area from the Fresno County AE20 Zone District to the Clovis C-1, R-1-PRD, O, and P-C-C Zone Districts.

c. Consider Approval - Res. 24-__, TM6375, A resolution of the City Council approving a vesting tentative tract map for a 385-lot single-family planned residential development on approximately 58.9 acres of land.

d. Consider Approval - Res. 24-__, PDP2024-001, A resolution of the City Council approving a planned development permit for a 385-lot single-family residential development.

e. Consider Approval - Res. 24-___, RO310, A resolution of the City Council approving application for the annexation of the territory known as the Shepherd-Minnewawa Northeast Reorganization area (approximately 201 acres).

**Staff**: Liz Salazar, Assistant Planner
**Recommendation**: Approve

ATTACHMENTS:
1. Draft Resolution CEQA
2. Draft Ordinance R2024-005
3. Draft Resolution TM6375
4. Draft Resolution PDP2024-001
5. Draft Resolution RO310
6. Proposed Development Standards for PDP2024-001
7. Landscape Plan with PDP2024-001 Park Amenity
8. Elevations and Floor Plans
9. Initial Study Mitigated Negative Declaration and MMRP
10. Correspondence from Commenting Agencies
11. Site Specific Service Plan

**RECOMMENDATION**

Staff and the Planning Commission recommend that the City Council take action to approve each component of the proposed Project as outlined in the subject title of this item.

**EXECUTIVE SUMMARY**

Lennar Homes ("Applicant") is requesting approval for a series of entitlement applications including a prezone ("R2024-005"), a vesting tentative tract map ("TM6375"), planned development permit ("PDP2024-001"), and an annexation ("RO310"), hereinafter collectively referred to as the "Project". This Project is designed as a 385-lot planned single-family development within the City's Heritage Grove planned growth area. The Project site is a portion of the larger ±201-acre annexation area. Approval of this Project would enable City staff to proceed with the annexation process through Fresno Local Agency Formation Commission (LAFCo) and would enable the Applicant to proceed with the processing of a residential site plan review ("RSPR") entitlement and development drawings.

**BACKGROUND**

- General Plan Designation: Medium Density Residential (4.1 – 7.0 DU/Ac)
- Master Plan Designation: Heritage Grove Master Plan
- Existing Zoning: Fresno County AE20 Zone District
- Parcel Size: ±58.9 acres (annexation area ±201 acres)
- Current Land Use: Agriculture and vacant
- Adjacent Land Uses:
  - North: Rural Residential & Agricultural
  - South: Rural Residential & Single-Family Residential
  - East: Single-Family Residential
  - West: Agricultural

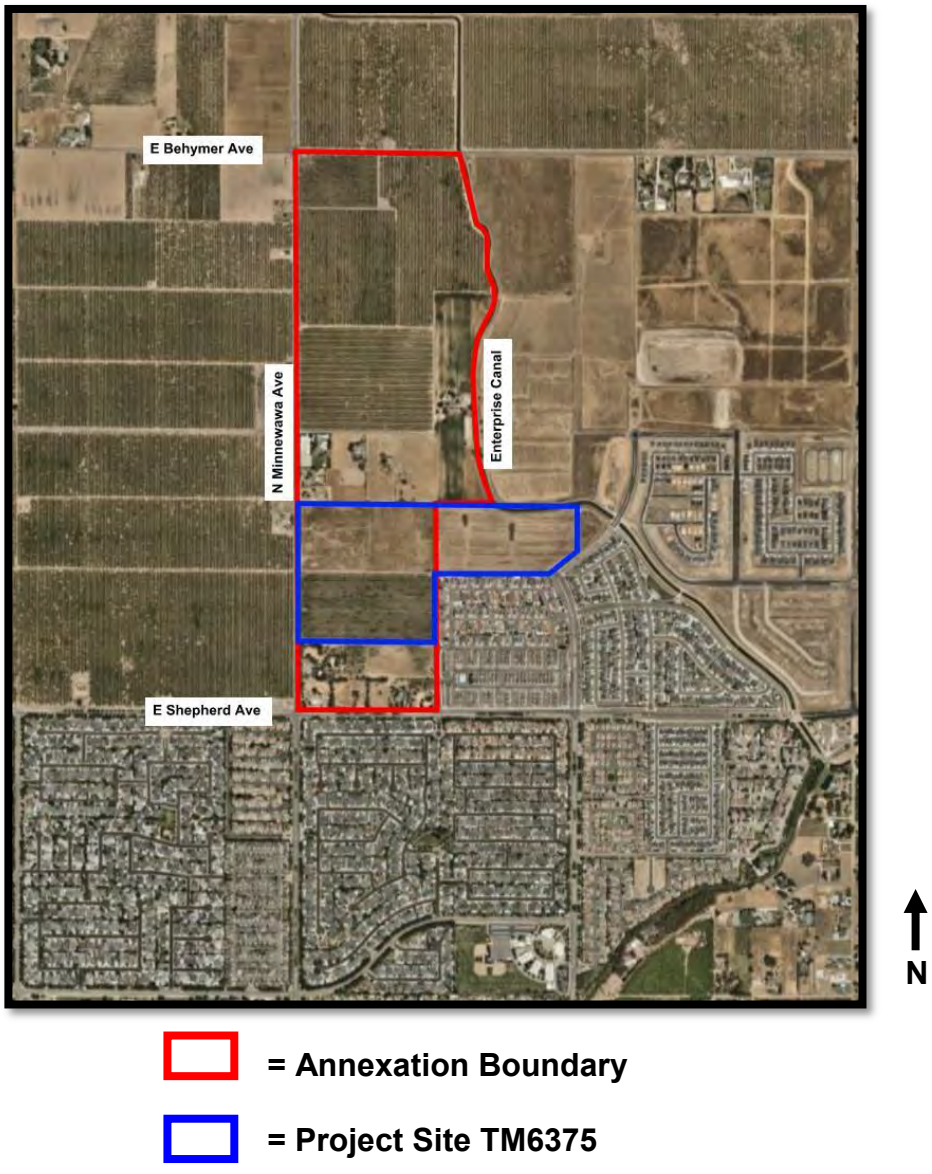
The Project site is located within the City's Heritage Grove Urban Center that encompasses four square miles within the northwest sphere of influence area of Clovis. Heritage Grove is one of three Urban Centers identified in the City's General Plan and designed as sub-communities that enable the City to grow while maintaining authentic, small town character and overall livability. A goal within the Heritage Grove Urban Center is to achieve compact development patterns that integrate a variety of housing types, sizes, and densities at the neighborhood and community level, and development of a well-connected grid system of roads.

**PROPOSAL AND ANALYSIS**

The Project proposes a 385-lot, non-gated planned single-family development on a ±54.60-acre portion of the total ±58.9-acre site. The remainder of the site is planned for a future park and is not included as part of the development. The Project site is designated for Medium Density (4.1 – 7.0 DU/Ac) in the Clovis General Plan and the Project conforms with the existing designation by proposing at the maximum density of 7 dwelling units per acre. The Project would include construction of public and private streets, sidewalks, landscaped areas, and three (3) pocket parks with related amenities. The Project will also include a Homeowner's Association ("HOA").

Approximately 40 of the overall ±58.9-acre Project site will be included in the proposed ±201-acre annexation boundary. The remaining ±18.9 acres were included in a recent annexation (RO305) approved by the City Council. As depicted in **Figure 1** below, the Project site and proposed annexation area are located on the south side of E. Behymer Avenue, east of N. Minnewawa Avenue, generally west of the Enterprise Canal, and north of Shepherd Avenue.

**Figure 1 – Project Area**

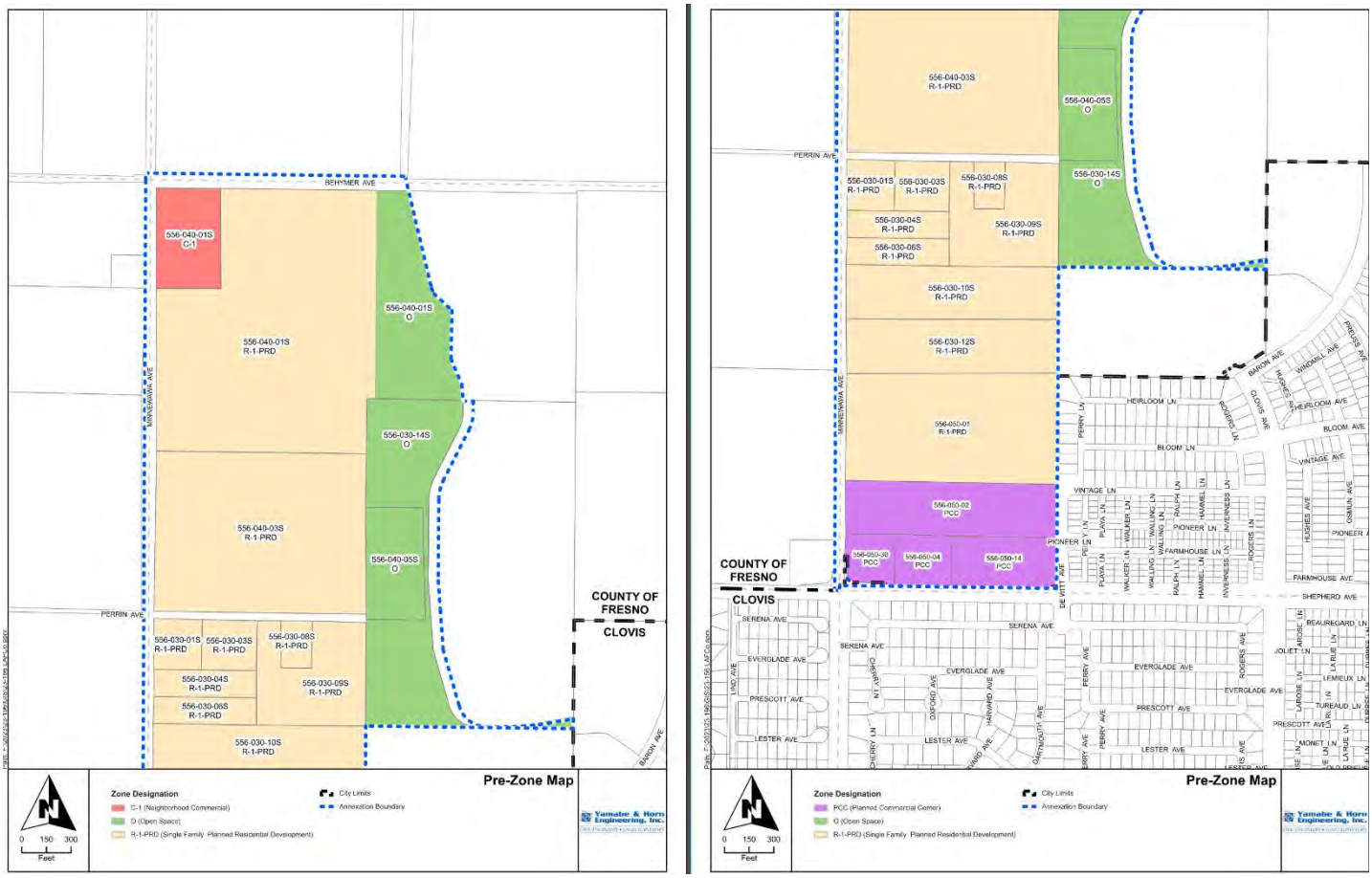


## Prezone and Planned Development Permit

*Prezone*

The Project also requires a prezone and planned development permit (PDP). The proposed prezone, R2024-005, will designate a City zone district of R-1-PRD (Single-Family Planned Residential Development) to the Project site. Additionally, the application will encompass the prezoning of several other sites slated for annexation from Fresno County Zoning to City of Clovis Zoning. This prezoning process is a prerequisite for the integration of the sites into the City. **Figure 2** below illustrates the proposed zoning for each property, all of which will align with their perspective underlying General Plan designations.

**Figure 2 – Zone Districts**



*Prezone Required Findings and Analysis*
The subsequent findings are necessary to approve an application for prezone.

1. The proposed amendment is consistent with the goals, policies, and actions of the General Plan;

   *The proposed prezone (R2024-005) conforms to the existing General Plan designations for sites within the annexation area, extending beyond the 58.9 acre Project site. The prezoning aligns internally with the outlined goals, policies, and actions of the General Plan.*

   a. Land Use Element - Goal 3: Orderly and sustainable outward growth into three Urban Centers with neighborhoods that provide a balanced mix of land uses and development types to support a community lifestyle and small town character.

      *The Project is proposed within the Heritage Grove Urban Center, one of the three Urban Centers designated by the General Plan to facilitate growth in a manner that prioritizes high quality, fiscal sustainability and balance. Approval of the Project would contribute to fulfilling the design guidelines of the urban center, encompassing circulation patterns, public facilities, and aesthetic considerations.*

   b. Land Use Element - Goal 3, Policy 3.9: Connected development. New development in Urban Centers must fully improve roadway, pedestrian, and bicycle systems within and adjacent to the proposed project and connect to existing urbanized development.

      Circulation Element - Goal 1: A comprehensive and well-maintained multimodal circulation system that provides for safe and efficient movement of people and goods.

      *The Project has been designed to fulfill both the circulation requirements outlined in the General Plan and the design guidelines specific to Heritage Grove. The development will enhance the adjacent streetscape along N. Minnewawa and develop Clovis Avenue along the Project's frontage, as well as internal local streets within the Project site. Development of Clovis Avenue will provide connection to the existing City developments situated immediately to the south and east of the Project site, thereby contributing to the overall street grid system in the area.*

   c. Land Use Element - Goal 3, Policy 5.1: Housing variety in developments. Housing variety in developments. The Clovis General Plan has been planned to provide a variety of housing product types suitable to each state of a person's life. Each development should contribute to a diversity of housing sizes and types within the standards appropriate to the land use designation.

      Land Use Element - Goal 5: A city with housing, employment, and lifestyle opportunities for all ages and incomes of residents.

*The Project proposes a mixture of housing products with lot sizes ranging from 2,112 to 17,353 square feet, including compact single-family residential homes. Typically, with the incorporation of smaller-than-standard lot sizes and the creation of smaller homes, the cost of a home is reduced. Therefore, potentially creating opportunities for home ownership for families and individuals with moderate incomes.*

*Furthermore, the Project will contribute towards the City's housing inventory. Offering a non-traditional single-family development, it adds to the diversity of housing options in Clovis. The development presents three distinct product types, which includes Lennar's Wilde, Treasures and Core style homes. The Wilde product features 2-story smaller lot sizes, while the Treasures and Core products offer larger lots with homes ranging from single-story to 2 stories. With these three product types complementing the already unique single-family residential development, the Project will enhance the variety of housing options available within the City's existing housing stock.*

2. The proposed amendment would not be detrimental to the public interest, health, safety, convenience, or general welfare of the City;

   *The Project is located within the City's designated growth area and has undergone comprehensive evaluation by multiple City departments and external agencies for feedback. Importantly, no significant concerns were raised by these stakeholders. Additionally, the Project's environmental impacts have been assessed through the accompanying Initial Study and Mitigated Negative Declaration ("ISMND"). The ISMND concluded that the environmental impacts were determined to be less than significant with implementation of mitigation measures.*

3. The parcel is physically suitable (including absence of physical constraints, access, compatibility with adjoining land uses, and provision of utilities) for the requested zoning designations and anticipated land uses/ projects.

   *The Project site is well suited to accommodate the proposed 385-lot single-family residential subdivision and necessary utility connections to the site. Situated directly west of the current city limits, the Project shares proximity with similar single-family residential developments to the south and east. The Project site is situated adjacent to single-family homes in various densities to the south and east. Westward, across N. Minnewawa Avenue, agricultural lands border the Project site. The Project's location is consistent with both existing and planned surrounding land uses.*

*Planned Development Permit*

The proposed R-1-PRD designation for the Project site is consistent with the existing Medium Density Residential general plan designation. The R-1-PRD Zone District is appropriate for single-family small lot uses, including attached and detached single-family structures on small lots. PDPs are required for all planned residential developments, including the proposed Project (Clovis Municipal Code ["CMC"] § 9.10.010, subd. (B)(6).). PDPs facilitate design flexibility and encourage innovative and superior site planning, culminating in a comprehensive development of high quality. Further details regarding the PDP are outlined below.

*Development Standards*

The PDP provides the flexibility to adjust or modify development standards, such as building coverage, height, setbacks, fence and wall heights, landscaping, open space, and street layout, where necessary and justifiable. The Applicant is requesting approval of a non-gated detached single-family PDP with reduced parcel size, reduced setbacks and increased lot coverage. The table below outlines the proposed development standards for the Project. There are three housing product types that are distinguishable by their elevation and floor plans. While the Applicant has provided models for each of their products, the home models will be assessed against the established development standards and formalized through the RSPR process, which has been included as a condition of approval for the tract map and PDP. The proposed development standards for TM6375 are outlined below in **Table 1**.

**Table 1 - PDP Development Standards**

| Standard | Housing Products | | | Typical City Standards R-1-MD (Medium Density) |
|---|---|---|---|---|
| | Wilde (188 units) | Treasures (90 units) | Core (107 units) | |
| Minimum Lot Size (Square Feet) | 2,112 | 4,230 | 4,230 | 4,500 |
| Minimum Parcel Width | 39’ | 45’ | 45’ | 50’ |
| Minimum Corner Parcel Width | N/A | 50’ | 50’ | 50’ |
| Minimum Reverse Parcel Width | N/A | 55’ | 55’ | 50’ |
| Minimum Parcel Depth | 53’ | 94’ | 94’ | 90’ |
| Maximum Lot Coverage | 62% | 52% | 45% | 45% |
| Maximum Height | 26’ 7” | 18’ 11” | 25’ 3” | 35’ |
| Front (Garage side) Setback | 4’ | 20’ | 20’ | 20’ |
| Front (Living side) Setback | 10’ | 12’ | 12’ | 15’ |
| Interior Side Setback | 0’ non-patio side<br>7’ patio side | 5’ | 5’ | 5’ |
| Street Side Setbacks | 3’ | 10’ | 10’ | 10’ |
| Rear Setback | 10’ | 10’ | 20’ | 15’ |
| Garages | 20’x20’ interior dimension (2-car) | 20’x20’ interior dimension (2-car) | 20’x20’ interior dimension (2-car) | 20’X22’ interior dimension (2-car) |

**Table 1** above delineates alterations to the customary development criteria. For comparison, the last column of the table provides standards for the typical zone district consistent with Medium Density, specifically the R-1-MD Zone District. The requested deviations specifically include a reduction in lot size, parcel width and depth, setbacks, height, non-standard garages, and an increase in parcel coverage. Staff has reviewed the proposed development standards mentioned above for the proposed single-family residential development and found them to be compatible with similar projects recently approved through the PDP process. The Wilde portion of the Project proposes a zero-lot line on the garage side with a minimum of a seven (7) foot setback on the opposite from the garage. The side with a seven (7) foot minimum setback will include a fenced uncovered patio area that will also accommodate toter storage. A condition of approval is recommended requiring a paved path leading from the street to a gate for each uncovered patio area. For parcels identified with a zero (0) foot interior setback, staff recommends a condition of

approval requiring acceptable covenant and deed restrictions allowing access to the abutting properties for repair and maintenance purposes.

*Residential Site Plan Review*
The Applicant will be required to submit an RSPR in order to allow staff to review lot-specific development standards. Specific color and materials of the models, walls, amenities, landscaping, and fencing will be evaluated through the civil plans.

*Parking*
Per planned residential development standards, the minimum parking requirement is two (2) covered spaces, plus one (1) covered or uncovered guest space for each dwelling unit. Therefore, the Project will provide a minimum of 770 covered spaces and 385 guest spaces. The Applicant is proposing a two-car garage for each unit. The Treasures and Core products include driveways, which count towards the guest parking. The Wilde products propose 258 uncovered street parking, thus meeting the minimum parking requirements for the overall development. Each two-car garage shall provide a minimum size of twenty (20) feet by twenty (20) feet interior dimension, which will be reviewed with the residential site plan review.

*Homeowners Association*
Although the Project is non-gated, an HOA is required for the purpose of maintaining open spaces and common areas, which will ensure they remain well-kept and functional, as well as enforcing the covenants, conditions and restrictions. This requirement is designed to uphold community standards and elevate the quality of life for residents within the Project's jurisdiction.

*Proposed Amenities*
Chapter 9.66 of the Clovis Municipal Code (Planned Development Permits) provides for flexibility in development standards to accommodate various development types that may not conform to standard regulations. Within this context, planned residential developments are mandated to provide a program of amenities proportional to the deviations being requested. Amenities may include, but are not limited to, features such as open space and improvements to the existing public facilities, such as parks and trails. It's important to note that PDP amenities are assessed on a project-by-project basis, as each development is unique in terms of its scale, location and context.

In exchange for the requested development standard deviations described in **Table 1** of the report, the Applicant is proposing a combination of an on-site amenity that is targeted towards homeowners and an off-site amenity that will provide a general public benefit. The Project proposes three pocket parks, totaling approximately 56,425 square feet. Each pocket park will be equipped with a BBQ station, picnic tables, seat walls, and grass area. The two (2) southern parks will include a shade structure, while the northern park includes a children's swing set. A conceptual illustration of the proposed parks is shown in **Figure 3** below.

When assessing and determining an adequate amenity that would provide a general public benefit, staff evaluated opportunities for open space and other public improvements within and near the proposed tract map. Staff identified construction of the planned trail along N. Sunnyside

Avenue, adjacent to the existing PG&E substation. This portion of the trail will have a 50-foot-wide easement, including a 20-foot parkway, 12-foot walk and an 18-foot landscape buffer as shown in **Figure 4** below. However, due to the overall cost and need to obtain the right-of-way, this option proved not to be proportionate to the Project.

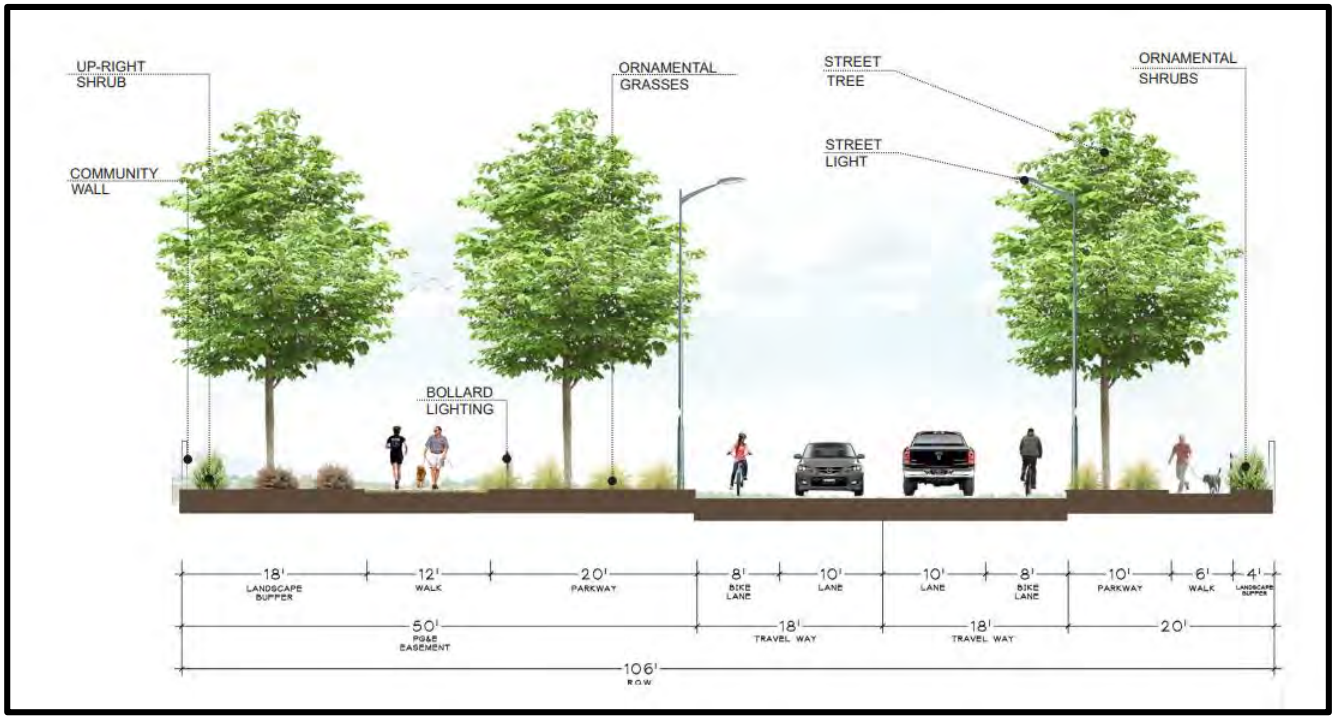
In the absence of a physical improvement to serve as an amenity, the Applicant has agreed to contribute a dollar amount totaling approximately $95,450, based on a calculation methodology recently utilized in conjunction with other projects. This monetary amount will be reserved for utilization towards the portion of the trail along N. Sunnyside Avenue, adjacent to the PG&E substation. Ultimately, if development of this portion of the trail is infeasible, the funds could be used for alternative public benefit improvement outside of the Project vicinity, such as development of shade structures and seating areas within the following neighborhood parks: Woods Park (TM5146), Pinnacles Park (TM5002) or Countryside Park (TM4732/5545).

It is important to highlight that, in addition to the requirement for proportional amenities, approval of a PDP necessitates the demonstration of superior development quality compared to what could be achieved through conventional development practices on the site. This might entail enhancements, such as upgraded entry points, embellished block walls along street frontages and superior exterior elevation design. These features are typically integrated into the proposed planned development projects by the Applicant, subject to review and approval during the civil plan review process and residential site plan evaluation for individual lots.

**Figure 3 – Proposed Open Space**




**Figure 4 – Sunnyside PG&E Trail Easement**




*Planned Development Permits Required Findings and Analysis*

The required findings for the approval of a PDP application, and staff's response to each of those findings are listed below. (CMC § 9.66.060.)

1. The PDP would:

   a. Be allowed within the subject base zoning district.

   *The proposed PDP2024-001 is permissible within the R-1-PRD Zone District, which is proposed concurrently with the pre-zoning of the Project site.*

   b. Be consistent with the purpose, intent, goals, policies, actions, and land use designations of the General Plan and any applicable specific plan.

   *The Project proposes a single-family residential use, which is consistent with the established land use of the General Plan. Refer to number 1 of the Prezone Findings and Analysis section.*

   c. Be generally in compliance with all of the applicable provisions of this Development Code relating to both on- and off-site improvements that are necessary to accommodate flexibility in site planning and property development and to carry out the purpose, intent, and requirements of this chapter and the subject base zoning district, including prescribed development standards and applicable design guidelines.

   *Although the Project requests deviations from development standards, the requested PDP is compliant with the prescribed development standards attached hereto as* ***Attachment 4****.*

*The Project proposes to construct both on-site and off-site improvements as required and directed by the City Engineer to ensure compliance with the City's Development Code.*

d. Ensure compatibility of property uses within the zoning district and general neighborhood of the proposed development.

*The Project shares a comparable density and development type with the existing surrounding developments, thus ensuring compatibility within the area.*

2. The proposed Project would produce a comprehensive development of superior quality (e.g., appropriate variety of structure placement and orientation opportunities, appropriate mix of structure sizes, high-quality architectural design, increased amounts of landscaping and open space, improved solutions to the design and placement of parking facilities, incorporation of a program of enhanced amenities, etc.) than which might otherwise occur from more traditional development applications.

   *The Project will provide an amenity program associated with the PDP as described in the Proposed Amenities section of this report. The architectural design of the homes will undergo thorough evaluation during the RSPR process to ensure high quality. Furthermore, enhanced landscaping will be required throughout the Project as part of the Project's aesthetic improvements.*

3. Proper standards and conditions have been imposed to ensure the protection of the public health, safety, and welfare.

   *PDP2024-001 will comply the Development Code, with Fire Department standards and Building Code regulations to ensure adherence to public health and safety requirements.*

4. Proper on-site traffic circulation and control is designed into the development to ensure protection for fire suppression and police surveillance equal to or better than what would normally be created by compliance with the minimum setback and parcel width standards identified in Division 2 of this title (Zoning Districts, Allowable Land Uses, and Zone-Specific Standards).

   *PDP2024-001 will adhere to the standards set by the Fire Department and the requirements of the City Engineer concerning fire suppression measures and enhancements to traffic flow related to TM6375, respectively.*

5. The subject parcel is adequate in terms of size, shape, topography, and circumstances to accommodate the proposed development.

   *The proposed TM6375 associated with the requested PDP proposes to develop 385 units with the average lot size of 3,698 square feet. Therefore, the site is physically suitable to accommodate the proposed Project.*

6. The design, location, operating characteristics, and size of the proposed development would be compatible with the existing and future land uses in the vicinity, in terms of aesthetic values, character, scale, and view protection.

   *As indicated above, the PDP2024-001 is compatible with the existing and planned adjacent land uses. In regard to view protection, the PDP proposes a reduced maximum height limit than that prescribed under the comparable R-1-MD Zone District. The proposed development will process a RSPR application where aesthetics and design will be evaluated in compliance with the Development Code.*

**Vesting Tentative Tract Map 6375**

As shown in **Attachment 3A**, the Applicant is requesting approval of TM6375 for 385 lots with various outlots for the purposes of private streets and open space. The proposed TM6375 features a range of lot sizes from 2,112 square feet to 17,353 square feet, with an average size of about 3,698 square feet. This tract map is organized into three (3) non-gated communities (See **Table 1**). The northwestern portion will feature the developer's Core product line, the northeastern portion will feature the Treasure's product line, while the southern neighborhood will showcase the more compact Wilde product line. The Core product line includes 107 units and the Treasures product line includes 90 units with sizes varying from 4,230 to 17,353 square feet. The Wilde product line (varying from 2,112 to 2,778 square feet) proposes 188 units featuring smaller lots and more compact housing options compared to the Core and Treasures lines. Further specifics regarding the vesting tentative tract map are detailed below.

*Circulation*

The Project proposes four (4) points of access, two (2) along N. Minnewawa Avenue, one (1) along Clovis Avenue, and one (1) along DeWitt Avenue. North Minnewawa and Clovis Avenues will comply with the City's standards for arterial roads, including compliance with the Heritage Grove Design Guidelines. The Project includes both public and private streets. Several private streets are designed to lead to the garages of the Wilde product homes. The Project includes sidewalks along all public streets. The private internal streets will not have traditional street lined sidewalks. However, the development will provide internal pedestrian pathways within each residential block.

*Sewer and Water Impact*

The Project's impacts to water and sewer facilities were analyzed during the California Environmental Quality Act (CEQA) review. Provost and Pritchard, the City's water system consultant, provided a summary of water system impacts and concluded that the City has capacity to serve, and that infrastructure can accommodate the Project upon completion of the recommended connections. The City Engineer completed a sewer analysis and concluded that the City has capacity to accommodate the Project. The Project lies within the Fresno Irrigation District (FID) boundary and therefore, is eligible to utilize entitled surface water from the Kings River.

*Heritage Grove Thematic Elements*

The City's 2014 General Plan directed the preparation and adoption of a comprehensive design document for the Heritage Grove area. As a result, the Heritage Grove Design Guidelines was

developed and adopted on December 5, 2016. The document is intended to accommodate growth in a manner that is of high quality, fiscally sustainable and balanced. The design document establishes an overall agricultural theme and quality for Heritage Grove. It illustrates and directs the intended architectural, landscape and site elements to reinforce the theme and quality. The proposed Project is required to adhere to design standards outlined in the Heritage Grove Design Guidelines.

The Project will develop N. Minnewawa Avenue as a thematic street and Clovis Avenue as a community boulevard as designated by the Heritage Grove Design Guidelines. The N. Minnewawa Avenue design requires an eighteen (18) foot parkway and the N. Clovis Avenue design requires a twenty (20) foot parkway, between the right-of-way and private parcels. Staff will work with the developer to establish a design that meets the intent provided in the Heritage Grove Design Guidelines.

*Vesting Tentative Tract Map Findings and Analysis*

The following are findings required to approve a vesting tentative tract map (CMC §§ 9.102.060, subd. (A), and 9.102.110, subd. (C).). It is important to note that some of these findings overlap with those detailed in the previous "Planned Development Permits Required Findings and Analysis" and "Prezone Required Findings and Analysis" sections of this report and will reference the information provided therein.

1. The proposed map, subdivision design, and improvements are consistent with the General Plan and any applicable specific plan.

   *The proposed map (TM6375) design maintains consistency with both the General Plan and the proposed PDP. Refer to number 1 of the "Prezone Required Findings and Analysis" section. All improvements will adhere to the proposed conditions of approvals and City standards. The specifics of these improvements will undergo scrutiny during the City's civil plan review process to ensure compliance with standards.*

2. The site is physically suitable for the type and proposed density of development.

   *Refer to number 5 of the "Planned Development Permits Required Findings and Analysis" section.*

3. The design of the subdivision and the proposed improvements are not likely to cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat.

   *As described in the ISMND prepared for the Project (**Attachment 9**), environmental impacts were determined to be less than significant with implementation of mitigation measures. Consequently, the Project is not anticipated to inflict substantial environmental harm or endanger fish and wildlife.*

4. The design of the subdivision or type of improvements is not likely to cause serious public health or safety problems.

*The design of the Project will comply with the Development Code, Fire Department standards and Building Code regulations to ensure adherence to public health and safety requirements. Furthermore, during review of the Project, agencies and City departments had the opportunity to review the Project to ensure consistency with City codes and regulations and no serious public health or safety concerns were identified. Therefore, the Project was determined not to be detrimental to the public interest, health, safety, or general welfare of the City.*

5. The design of the subdivision or the type of improvements will not conflict with easements acquired by the public at large for access through or use of property within the proposed subdivision. This finding may also be made if the review authority finds that alternate easements for access or use will be provided, and that they will be substantially equivalent to ones previously acquired by the public. This finding shall apply only to easements of record, or to easements established by judgment of a court of competent jurisdiction, and no authority is hereby granted to the review authority to determine that the public at large has acquired easements of access through or use of property within the proposed subdivision.

   *During the final map review process conducted by the City's Engineering Division, all easements will be identified. Additionally, during the final map review, the City Engineer and other outside agencies will ensure that no conflicts with easements would occur as a result of the Project. As needed, alternate easements will be found that will be substantially equivalent to those previously required in TM6375.*

6. The discharge of sewage from the proposed subdivision into the community sewer system will not result in violation of existing requirements prescribed by the California Regional Water Quality Control Board.

   *The City Engineer has determined that the City has the capacity to accommodate the proposed Project. Installation of sewer lines within the proposed subdivision and beyond its borders will adhere to the regulations set forth by the California Regional Water Quality Control Board.*

7. The design of the subdivision provides, to the extent feasible, passive or natural heating and cooling opportunities.

   *The proposed subdivision will comply with the Development Code and California Building Code requirements as it relates to heating and cooling opportunities within TM6375.*

8. The proposed subdivision, its design, density, and type of development and improvements conform to the regulations of this Development Code and the regulations of any public agency having jurisdiction by law.

   *The proposed subdivision is proposing a density of 7 units per acre, aligning with the Clovis General Plan's Land Use designation of Medium Density Residential (4.1-7.0 DU/Ac). Furthermore, the proposed subdivision comprises single-family housing, in accordance with the residential development requirements outlined in the Clovis General Plan. The proposed*

*development will process an RSPR application, where aesthetics and design will be evaluated in compliance with the Development Code and established PDP development standards.*

**Annexation**

The Project is situated within the City's Heritage Grove planned growth area and requires annexation into the City. While the Project site encompasses approximately 58.9 acres, a larger annexation area is proposed after consultation with the County of Fresno and the LAFCo staff to establish a logical boundary for incorporation with regard to the overall annexation timing of this area. In addition to the ±58.9-acre site, the proposed annexation boundary includes properties planned for future residential development at similar densities, future community park, mixed use development, and neighborhood commercial. If approved by the City Council, the annexation application will proceed to the LAFCo for processing and final consideration. Development of the Project cannot occur without the completion of the annexation process.

*Annexation Details:*

| | |
|---|---|
| Property owners: | 18 |
| Owners Consenting to Annexation: | 18 |
| Registered Voters: | 18 |
| Acreage: | ±201 |

*Standard Conditions of Annexation:*

The City established standard baseline conditions for annexation projects that are incorporated into the resolution for the proposed annexation (**Attachment 5**). These conditions encapsulate the mutually agreed upon tax-sharing arrangements between the City and Fresno County and scheduling of public services for the annexation sites. A site-specific service plan has been prepared demonstrating the City's capacity to effectively serve the properties within the proposed annexation territory. The plan requires approval from the City Council and will be provided to Fresno LAFCo. The plan is provided as **Attachment 11** of this report.

**Consistency with General Plan Goals and Policies**

Staff has evaluated the Project in light of the goals and policies of the General Plan. The following goals and policies reflect Clovis' desire to maintain Clovis' tradition of responsible planning and well-managed growth to preserve the quality of life in existing neighborhoods and ensure the development of new neighborhoods with an equal quality of life. These goals and policies seek to foster more compact development patterns that can reduce the number, length, and duration of auto trips.

**Goal 3:** Orderly and sustainable outward growth into three Urban Centers with neighborhoods that provide a balanced mix of land uses and development types to support a community lifestyle and small-town character.

Policy 3.5 **Fiscal sustainability.** The City shall require establishment of community facility districts, lighting and landscaping maintenance districts, special districts, and other special funding or financing tools in conjunction with or as a condition of development, building or permit approval, or annexation or sphere of influence

amendments when necessary to ensure that new development is fiscally neutral or beneficial.

Policy 3.6 **Mix of housing types and sizes.** Development is encouraged to provide a mix of housing types, unit sizes, and densities at the block level. To accomplish this, individual projects five acres or larger may be developed at densities equivalent to one designation higher or lower than the assigned designation, provided that the density across an individual project remains consistent with the General Plan.

**Goal 5:** A city with housing, employment, and lifestyle opportunities for all ages and incomes of residents.

Policy 5.1: **Housing variety in developments.** The Clovis General Plan has been planned to provide a variety of housing product types suitable to each stage of a person's life. Each development should contribute to a diversity of housing sizes and types within the standards appropriate to the land use designation. This policy does not apply to projects smaller than five acres.

Policy 5.2 **Ownership and rental.** Encourage a mixture of both ownership and rental options to meet varied preferences and income affordability needs.

**Planning Commission Hearing – November 21, 2024**

On Thursday November 21, 2024, the Planning Commission considered the Project with staff presenting the Project alongside its recommendations and detailed information as described in the staff report. One individual voiced support for the project, highlighting its contribution to housing and overall development in the area. No one voiced opposition to the project during the hearing. After discussions, the Planning Commission voted to recommend that the City Council approve the entitlements associated with the Project. All items were approved with a vote of 4-0-1, with Chair Antuna absent.

**Public Notice and Comments**

The City published a notice of this public hearing in The Business Journal on Monday, December 2, 2024. A public hearing notice was sent to area residents within 600 feet of the property boundaries for the December 16, 2024, City Council hearing. As of the completion of this staff report, staff has not received any comments from the public.

**Review and Comments from Agencies**

The Project was distributed to all City divisions as well as outside agencies, including Caltrans, Clovis Unified School District, Fresno Irrigation District, Fresno Metropolitan Flood Control District, AT&T, PG&E, San Joaquin Valley Air Pollution Control District, State Department of Fish and Wildlife, and the County of Fresno.

Comments received are attached (**Attachment 10**) only if the agency has provided concerns, conditions, or mitigation measures. Routine responses and comment letters are placed in the administrative record and provided to the Applicant for their records.

**Community Facilities District**

The fiscal analysis of the Loma Vista Specific Plan identified possible long-term funding shortfalls in Clovis' Citywide operating and maintenance costs. To address this issue the City of Clovis implemented a Community Facilities District. Community Facilities Districts (CFDs) are a means of providing additional funding for the provision of public facilities and services for public safety in newly developing areas of the community where the city would not otherwise be able to afford to continue to provide an adequate level of service as the City continues to grow. The use of CFDs is fairly common among cities in California experiencing high rates of growth, such as Clovis, due to significant losses of local revenue from tax shifts authorized by the State of California and the need to continue to provide an adequate level of service as growth occurs.

A condition of approval has been added to TM6375 requiring participation of this Project in the CFD.

**California Environmental Quality Act (CEQA)**

The City of Clovis has completed an Initial Study (see **Attachment 9**) assessing the project's impact on natural and manmade environments, as required by the State of California. Staff is recommending approval of a mitigated negative declaration ("MND"). An MND is a written statement announcing that this project will not have a significant effect on the environment with the implementation of mitigation measures. The complete ISMND can be found on the City's website at: https://cityofclovis.com/planning-and-development/ceqa.

In summary, environmental impacts were determined to be less than significant with implementation of mitigation measures for agricultural resources, biological resources, cultural resources, geological resources, noise, greenhouse gas emissions, and tribal cultural resources. (See the mitigation and monitoring program attached hereto as **Attachment 9**.) The Notice of Intent to adopt an MND was posted to the City's website at the web address listed above. (Cal. Code Regs., Tit. 14, § 15072, subd. (b)(2).) The proposed MND was made available for public comment and review at the City's Planning and Development Services Department from October 18, 2024, to November 21, 2024. (Cal. Code Regs., Tit. 14, § 15073, subd. (a).)

**FISCAL IMPACT**

None.

**REASON FOR RECOMMENDATION**

The proposed Project will provide a diversity in housing types, contribute a quality residential product and further advance growth within the Heritage Grove growth area as envisioned by the General Plan. The Project does not substantially impact sewer, water and other public services and will contribute to their proportionate share of infrastructure and open space. The Project is consistent with the goals and policies of the General Plan and Development Code and each component of the Project meets the findings that must be considered when making a decision on a project, as outlined in sections above. Staff therefore recommend that the City Council approve resolutions to adopt an MND and mitigation monitoring program in accordance with CEQA, and approve RO310, R2024-005, TM6375, and PDP2024-004, subject to the conditions of approval provided in Attachments **3B** and **4A**.

**ACTIONS FOLLOWING APPROVAL**
The annexation application will be prepared and submitted to LAFCo after all materials have been submitted by the applicant, sufficient to meet the conditions for the application.

**CONFLICT OF INTEREST**
None.

Prepared by: Liz Salazar, Assistant Planner

Reviewed by: City Manager

**RESOLUTION 24-___**

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS ADOPTING A MITIGATED NEGATIVE DECLARATION AND A MITIGATION MONITORING AND REPORTING PROGRAM FOR REORGANIZATION 310, PREZONE 2024-005, VESTING TENTATIVE TRACT MAP 6375, AND PLANNED DEVELOPMENT PERMIT 2024-001, PURSUANT TO THE CALIFORNIA ENVIRONMENTAL QUALITY ACT GUIDELINES**

**WHEREAS,** Lennar Homes of California, LLC ("Applicant"), 8080 N. Palm Avenue Suite 110, Fresno, CA 93711, has submitted various entitlement applications including Reorganization 310 ("RO310"), Prezone 2024-005 ("R2024-005"), Vesting Tentative Tract Map 6375 ("TM6375") and Planned Development Permit ("PDP") 2024-001 ("PDP2024-001") (hereinafter collectively referred to as the "Project") for property located south of East Behymer Avenue, between North Minnewawa Avenue and the Enterprise Canal and north of East Shepherd Avenue within the Heritage Grove Urban Center ("Property"); and

**WHEREAS,** the City of Clovis caused to be prepared an initial study (hereinafter incorporated by reference) to evaluate potential environmental impacts from the Project, and on the basis of that study, it was determined that no significant environmental impacts would result from this Project with the adoption of mitigation measures; and

**WHEREAS,** the City adopted a Supplemental Environmental Impact Report (SEIR) for the 2014 General Plan Circulation Element Update on October 17, 2022. The SEIR evaluated potential land uses consistent with the General Plan and their associated VMT impacts. The SEIR finds that implementation of the 2014 General Plan may result in VMT metrics that are greater than the applicable thresholds. Mitigation measures include policies to reduce VMT. Because the City cannot demonstrate that the implementation of these policies would achieve VMT reductions to meet the VMT thresholds, the impacts would remain significant and unavoidable. Therefore, following approval of the SEIR, individual land use development projects that are consistent with the 2014 General Plan have the opportunity to tier their environmental review from the General Plan SEIR. The SEIR has disclosed the VMT impacts of land use development consistent with the General Plan. Therefore, significant and unavoidable VMT impacts associated with the General Plan have already been disclosed. Because the proposed Project is consistent with the 2014 General Plan, the Project's significant transportation impacts do not require a project specific EIR. Overall, the Project, is determined to be consistent with the 2014 General Plan, and would result in a significant and unavoidable impact.

**WHEREAS,** on the basis of this initial study, a proposed mitigated negative declaration ("MND") has been prepared, circulated, and made available for public comment pursuant to the California Environmental Quality Act ("CEQA") (Pub. Res. Code §§ 21000, et seq.), and Guidelines for implementation of CEQA (Cal. Code Regs., Tit. 14, §§ 15000, et seq.); and

**WHEREAS,** the notice of intent to adopt an MND was posted to City's website in accordance with CEQA Guidelines section 15072, subdivision (b)(2), and notice of the public hearing for this item was published with the *Fresno Business Journal* on November 29, 2024; and

**WHEREAS,** the City Council has independently reviewed, evaluated, and considered the CEQA analysis outlined in the staff report, initial study, MND and all comments, written and oral, received from persons who reviewed the MND, or otherwise commented on the Project ("Administrative Record").

**NOW, THEREFORE, BASED UPON THE ENTIRE RECORD OF THE PROCEEDINGS, THE CITY COUNCIL RESOLVES AND FINDS AS FOLLOWS:**

1. The foregoing recitals as true and correct.

2. The initial study and MND for the Project are adequate, reflect the City's independent judgment and analysis, and have been completed in compliance with CEQA and the CEQA Guidelines.

3. That the initial study and MND were presented to the City Council and the City Council has independently reviewed, evaluated, and considered the entire Administrative Record including the initial study, MND and all comments, written and oral, received from persons who reviewed the initial study and MND, or otherwise commented on the Project prior to approving the Project.

4. On the basis of the entire Administrative Record, that there is no substantial evidence that the Project will have a significant effect on the environment with the adoption of the mitigation measures identified in **Attachment A**.

5. The MND and the mitigation monitoring program set forth in **Attachment A**, including the mitigation measures identified therein and as described in the MND itself are hereby adopted.

6. Directs that the record of these proceedings shall be contained in the Department of Planning and Development Services located at 1033 Fifth Street, Clovis, California 93612, and the custodian of the record shall be the City Planner or other person designated by the Planning and Development Services Director.

7. The Planning and Development Services Director, or his/her designee, is authorized to file a notice of determination for the Project in accordance with CEQA and to pay any fees required for such filing.

8. The basis for the findings is detailed in the December 16, 2024, staff report, which is hereby incorporated by reference in its entirety, the entire Administrative Record, as well as evidence and comments presented in connection with the MND.

* * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED:

| | |
|---|---|
| Mayor | City Clerk |

**ATTACHMENT A:**
**Mitigation Monitoring Reporting Program**
**RO310, R2024-005, TM6375, and PDP2024-001**

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| ***Agriculture and Forestry Resources*** | | | | |
| AGR-1 | The Project applicant shall prepare or fund an agricultural resource evaluation prior to project approval. The resource evaluation shall be use generally accepted methodologies (such as the Land Evaluation and Site Assessment Model) to identify the potentially significant impact of the loss of agricultural land. If the loss of agricultural land is determined to be a potentially significant impact, the resource evaluation shall consider the economic viability of future agricultural use of the property. If the agricultural resource is considered significant and future agricultural use is considered economically viable, the conversion will be deemed significant. The City shall require mitigation by one of the following methods:<br>• Mitigation at a 1:1 ration of converted to preserved acreage through a regional conservation easement, or payment of its valuation equivalent if a fee mitigation program is established. If 1:1 mitigation is determined to be economically infeasible, based upon all of the evidence, the ratio may be reduced to an economically feasible ratio or no further mitigation shall be required. This determination shall be | City of Clovis Planning | *Prior to Permits* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | made by the City's Director of Planning and Development Services based upon substantial evidence in the record; or<br><br>• Other potential mitigation which achieves the same mitigating effect as the measures identified above, consistent with the CEQA Statutes and Guidelines. This determination shall be made by the City's Director of Planning and Development Services based upon substantial evidence in the record. | | | |
| ARG-2 | Prior to issuance of building permits for development of APN 556-030-17S, the project applicant would be required to petition for cancellation of the Williamson Act contract for APN 556-030-17S. The applicant would have to meet circumstances and conditions set forth in Government Code Section 51280. After approval of the cancellation petition, the applicant would be able to develop uses that comply with the zoning designation of the parcel per the Clovis Municipal Code. | City of Clovis Planning | *Prior to Permits* | |
| ARG-3 | Pursuant to Clovis Municipal Code Section 9.40.170 and the California Civil Code Section 3482.5, prior to approval of building occupancy permits the Project developer shall provide residents of the Project site Right-To-Farm notifications. The Right-To-Farm notification would advise future occupants of the Project site that they are residing adjacent to | City of Clovis Planning | *Prior to Permits* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | agricultural land that has been active for three or more years and that they should expect continued activities associated with agricultural production. | | | |
| ***Biological Resources*** | | | | |
| BIO-1 | **Sanford's arrowhead.** Prior to the start of construction, a qualified biologist will conduct protocol-level rare plant surveys following California Department of Fish and Wildlife's 2018 Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities, or most current agency guidance. Surveys will target all habitats of the Project site that could potentially support the Sanford's arrowhead, and will be conducted when local populations of the Sanford's arrowhead are in bloom and readily identifiable. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-2 | **Sanford's arrowhead.** If Sanford's arrowhead populations are identified on site, project design will be modified, if at all feasible, to avoid the plants. A qualified biologist will identify an appropriate buffer around the plants, and no developments or other project-related activities will be permitted within. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-3 | **Sanford's arrowhead.** If it is not feasible to avoid Sanford's arrowhead populations, the affected populations will be salvaged in accordance with a plan prepared by a qualified biologist that will include contingencies for an | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | unsuccessful salvage effort. Salvage methods may include seed collection and dispersal, transplanting rootstock, and/or topsoil collection and redispersal, as appropriate. The relocation area(s) will be located in alternative on-site emergent wetland habitat to be established and maintained for this species, and protected through a deed restriction, conservation easement, or similar mechanism. Relocation areas will be monitored by a qualified biologist for a period of five years to ensure successful establishment. | | | |
| BIO-4 | **Monarch butterfly**. Prior to the start of construction, a qualified biologist will survey all proposed work areas for milkweed plants. The survey will be conducted at a time of year when milkweed is readily identifiable. The objective of the survey will be to tally and map all milkweed plants that could potentially be impacted by project activities (Milkweed Survey). | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-5 | **Monarch butterfly.** If feasible, any removal of milkweed plants required for residential buildout will take place entirely outside of the period in which monarchs are most likely to breed in the project vicinity, March 1-August 31 (Construction Timing). | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-6 | **Monarch butterfly.** If removal of milkweed plants cannot be avoided between March 1 and August 31, a qualified biologist will conduct pre-construction surveys for non-volant life stages of monarchs on those milkweed plants | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | that will be removed, within 10 days prior to the start of construction. If any non-volant life stages are identified, then those plants will be avoided until it is confirmed by a qualified biologist that a monarch is no longer present (Preconstruction Surveys and Avoidance). | | | |
| BIO-7 | **Monarch butterfly.** Impacted milkweed plants will be replaced on site in accordance with a revegetation plan prepared by a qualified biologist. A minimum of 50 replacement plantings will be provided, or three times the number of milkweed plants identified at the time of the milkweed survey (see Mitigation Measure BIO-4), whichever is greater. Replacement plantings must be locally native; preferred species are narrowleaf milkweed (A. fascicularis) and showy milkweed (A. speciosa). The planting site(s) must be in area(s) that will not be mowed or treated with pesticides or herbicides, to be guaranteed via a deed restriction or similar protective mechanism. Revegetation areas will be monitored by a qualified biologist for a period of five years to ensure successful establishment. (Compensatory Mitigation). | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-8 | **Swainson's hawk.** If feasible, project activities will take place entirely outside of the Swainson's hawk nesting season, defined here as March 1 to September 15. If Mitigation Measure BIO-8 is implemented, no further mitigation for this species is required. (Construction Timing). | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| BIO-9 | **Swainson's hawk.** If project activities must occur between March 1 and September 15, a qualified biologist will conduct nest surveys for Swainson's hawks on and within ¼ mile of the Project site within the survey periods prescribed by Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley (SHTAC 2000). Three nest surveys will be conducted in each of two survey periods, with the survey periods defined as follows: Period I – January 1 to March 20, Period II – March 20 to April 5, Period III – April 5 to April 20, Period IV – April 21 to June 10, and Period V – June 10 to July 30. Surveys will take place in the two survey periods immediately prior to the anticipated start of construction activities during the nesting season, with the exception of Period III, when no surveys should take place per the SHTAC guidelines. The surveys will consist of inspecting all accessible, suitable trees of the survey area for the presence of nests and hawks. (Nesting Surveys). | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-10 | **Swainson's hawk.** If active Swainson's hawk nests are detected during the surveys or observed incidentally, a minimum ¼-mile no-disturbance buffer will be delineated and maintained around each nest, to remain in place until the breeding season has ended or until a qualified biologist has determined that the birds have fledged and are no longer reliant | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | upon the nest or parental care for survival. (No-Disturbance Buffers). | | | |
| BIO-11 | **Swainson's hawk.** If an active Swainson's hawk nest is detected, and a ¼-mile no-disturbance buffer is not feasible, the project applicant will consult with CDFW to discuss how to implement the project and avoid take. If take cannot be avoided, take authorization will be obtained through the acquisition of a State Incidental Take Permit (ITP), pursuant to Fish and Game Code section 2081 subdivision (b). (CDFW Consultation). | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-12 | **Other nesting birds and raptors.** If feasible, project activities will take place entirely outside of the avian nesting season, defined here as February 1 to September 15. If Mitigation Measure BIO-12 is implemented, no further mitigation for nesting birds or raptors is required. (Construction Timing). | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-13 | **Other nesting birds and raptors.** If project activities must occur between February 1 and September 15, a qualified biologist will conduct surveys for active bird nests within 10 days prior to the start of work during this period. The survey area will encompass the site and accessible surrounding lands within 250 feet for nesting birds and 500 feet for nesting raptors (Preconstruction Surveys). | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-14 | **Other nesting birds and raptors.** Should any active nests be discovered in or near the work area, a qualified biologist will conduct an | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | additional survey to establish a behavioral baseline of these nests. (Behavioral Baseline). | | | |
| BIO-15 | **Other nesting birds and raptors.** If feasible, a qualified biologist will continuously monitor active nests during project activities to detect behavioral changes resulting from the project. If behavioral changes occur, the activities that appear to be causing the changes (as determined by the qualified biologist) will be discontinued. At the biologist's discretion, activities may be resumed (1) in a modified form, with lower levels of visual or sound disturbance, (2) following the implementation of measures designed to reduce perceived disturbance, e.g. visual buffers, and/or (3) at a later nesting stage, when the affected birds are less sensitive to disturbance. (Continuous Monitoring). | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-16 | **Other nesting birds and raptors.** If continuous monitoring of active nests is not feasible, or if nesting birds have behavioral changes that persist following the implementation of one or more of the corrective actions identified above under Mitigation Measure 4.1.4d, a minimum no-disturbance buffer of 250 feet will be established around active bird nests and 500 feet around active raptor nests. These buffers will remain in place until after the breeding season has ended or until a qualified biologist has determined that the birds have fledged and are no longer reliant | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | upon the nest or on-site parental care for survival. Variance from these no-disturbance buffers is possible when there is compelling biological or ecological reason to do so. A qualified biologist will advise and support any variance from these buffers. (No-Disturbance Buffers). | | | |
| ***Cultural Resources*** | | | | |
| CULT-1 | If archaeological or tribal resources or materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.<br><br>If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation. | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | If a potentially-eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met. | | | |
| CULT-2 | If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code and Project shall follow the procedures and protocols set for un CEQA Guidelines Section 15064.4(e)(1). If human remains are identified to be those of Native American, California Health and Safety Code 7050.5 requires the County coroner notify the California Native American Heritage Commission within 24 hours of discovery. All reports, correspondence, and determinations regarding the discovery of human remains on the Project site shall be submitted to the Lead Agency. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| ***Geological Resources*** | | | | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| GEO-1 | If prehistoric or historic-era cultural materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist and/or paleontologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.<br><br>If the qualified professional determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.<br><br>If a potentially-eligible resource is encountered, then the qualified professional archaeologist and/or paleontologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | for managing unanticipated discoveries have been met. | | | |
| ***Greenhouse Gas Emissions*** | | | | |
| GHG-1 | In order to meet the 2022 Scoping Plan GHG requirements, consistent with State GHG reduction and equity prioritization goals, each residential unit shall provide electric vehicle charging capabilities as part of the final project designs. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| ***Noise*** | | | | |
| NOISE-1 | Exterior Noise. A sound wall shall be constructed to a minimum height of six (6) feet above Project-side grade along North Minnewawa Avenue. In order for the sound wall to effectively shield noise, where there will be access to the development from North Minnewawa Avenue, the sound walls will need to be turned inward (eastward) for a distance of approximately twenty (20) feet at roadway access points. Other Project design features that satisfy the City's exterior noise exposure noise level may fulfill this mitigation. | City of Clovis Planning | *During Construction and Prior to Occupancy* | |
| NOISE-2 | Interior Noise. Mechanical ventilation or air conditioning shall be provided for all homes to enable windows and doors to remain closed for sound insulation purposes. | City of Clovis Planning | *During Construction and Prior to Occupancy* | |
| ***Tribal Cultural Resources*** | | | | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| TCR-1 | If archaeological or tribal resources or materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.<br><br>If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.<br><br>If a potentially-eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | that the provisions for managing unanticipated discoveries have been met. | | | |
| TCR-2 | If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code and Project shall follow the procedures and protocols set for un CEQA Guidelines Section 15064.4(e)(1). If human remains are identified to be those of Native American, California Health and Safety Code 7050.5 requires the County coroner notify the NAHC within 24 hours of discovery. All reports, correspondence, and determinations regarding the discovery of human remains on the project site shall be submitted to the Lead Agency. | City of Clovis Planning | *Prior to Permits and During Construction* | |

**ORDINANCE 24-___**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CLOVIS AND CHANGING THE OFFICIAL ZONE MAP OF THE CITY OF CLOVIS IN ACCORDANCE WITH SECTION 9.080.020 OF THE CLOVIS MUNICIPAL CODE TO REZONE APPROXIMATELY 201 ACRES FROM THE FRESNO AE20 ZONE DISTRICT TO THE CLOVIS C-1, R-1-PRD, O, AND P-C-C ZONE DISTRICTS FOR PROPERTIES LOCATED SOUTH OF EAST BEHYMER AVENUE, BETWEEN NORTH MINNEWAWA AVENUE AND THE ENTERPRISE CANAL AND NORTH OF EAST SHEPHERD AVENUE**

**WHEREAS,** Lennar Homes of California, LLC. 8080 N. Palm Avenue Suite 110, Fresno, CA 93711 ("Applicant"), has applied for a Prezone ("R2024-005") ("Project"); and

**WHEREAS,** the Applicant's request is to prezone approximately 54.60 acres from the Fresno County AE20 Zone District to the Clovis R-1-PRD Zone District in conjunction with its proposal to annex the subject property and develop Vesting Tentative Tract Map 6375, which would subdivide the subject property into approximately 385 residential lots; and

**WHEREAS,** after consultation with the County of Fresno and the Fresno Local Agency Formation Commission (LAFCo) regarding the Applicant's proposal, the annexation boundary was expanded to encompass approximately 201 acres to create a logical boundary, creating the need to expand the prezoning application to include the full annexation boundary, including prezoning properties to the C-1 (Neighborhood Commercial), R-1-PRD (Single-Family Planned Residential Development), O (Open Space), and P-C-C (Planned Commercial Center) Zone Districts; and

**WHEREAS,** the Planning Commission held a duly noticed public hearing on November 21, 2024, to consider the Project approval, at which time interested persons were given opportunity to comment on the Project; and

**WHEREAS,** the Planning Commission voted and adopted a resolution recommending that the City Council approve R2024-005; and

**WHEREAS,** the Planning Commission's recommendations were forwarded to the City Council for consideration; and

**WHEREAS,** the City published notice of the public hearing in *The Business Journal* on December 2, 2024 mailed public notices to property owners within 600 feet of the Property ten (10) days prior to the City Council hearing, and otherwise posted notice of the public hearing according to applicable law; and

**WHEREAS,** the City Council held a duly noticed public hearing on December 16, 2024, to consider approval of R2024-005; and

**WHEREAS,** the City Council considered the California Environmental Quality Act ("CEQA") analysis outlined in the staff report, which is incorporated by this reference herein, and elsewhere in the Administrative Record which determines that the Project meets the

requirements pursuant to CEQA Guidelines and recommends that the City Council adopt the mitigated negative declaration and mitigation monitoring and reporting program; and

**WHEREAS,** the City Council has had an opportunity to review and consider the entire Administrative Record relating to the Project, which is on file with the Department, and reviewed and considered those portions of the Administrative Record determined to be necessary to make an informed decision, including, but not necessarily limited to, the staff report and staff presentation, the written materials submitted with the request, and the verbal and written testimony and other evidence presented during the public hearing.

**NOW, THEREFORE, BASED UPON THE ENTIRE RECORD OF THE PROCEEDINGS, THE CITY COUNCIL FINDS AS FOLLOWS:**

1. The proposed prezone is consistent with the goals, policies, and actions of the adopted General Plan.

2. The proposed prezone would not be detrimental to the public interest, health, safety, convenience, or general welfare of the City.

3. The Property is physically suitable (including absence of physical constraints, access, compatibility with adjoining land uses, and provision of utilities) for the requested zoning designation and development of the Project.

4. The City Council has adopted the Project's mitigated negative declaration and mitigation monitoring and reporting program.

5. The basis and evidence for the findings are detailed in the December 16, 2024, staff report, which is hereby incorporated by reference, the entire Administrative Record, as well as the evidence and comments presented during the public hearing.

**The City Council of the City of Clovis does ordain as follows:**

Section 1 The official map of the city is amended in accordance with Section 9.08.020 and Chapter 9.86 of the Clovis Municipal Code by rezoning certain land in the City of Clovis, County of Fresno, State of California, to wit:

LEGAL DESCRIPTION:

See the attached **Attachment A**.

From the Fresno County AE20 Zone District to the Clovis C-1 (Neighborhood Commercial), R-1-PRD (Single-Family Planned Residential Development), O (Open Space), and P-C-C (Planned Commercial Center) Zone Districts;

Section 2 This Ordinance shall go into effect and be in full force from and after thirty (30) days after its final passage and adoption.

APPROVED: December 16, 2024

_____ Mayor

_____ City Clerk

* * * * * * * * * *

The foregoing Ordinance was introduced and read at a regular meeting of the City Council held on December 16, 2024 and was adopted at a regular meeting of said Council held on January 6, 2025, by the following vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED: January 6, 2025

_____
City Clerk

## Attachment A

## AREA TO BE ANNEXED INTO THE CITY OF CLOVIS GEOGRAPHIC DESCRIPTION

Being a portion of the West Half of Section 20 together with a portion of the East 30 feet of Section 19 and the South 40 feet of Section 17, Township 12 South, Range 21 East, Mount Diablo Base & Meridian, according to the Official United States Government Township Plat thereof, in the County of Fresno, State of California, described as follows:

**BEGINNING** at the Southeast Corner of said Section 19 and running along the South and West right-of-way line of Minnewawa Avenue according to the Grant Deed thereof recorded in Book 6706 at Page 288, Official Record Fresno County, the following 2 courses:

1. South 89°21'21" West, 30.00 feet along the South line of said Section 19 to the West right-of-way line of Minnewawa Avenue; thence
2. North 1°06'32" West, 5296.80 feet along the West right-of-way line of Minnewawa Avenue to the North line of said Section 19; thence

Along the West, North, and East right-of-way lines of Behymer Avenue according to the map thereof recorded in Book 2 of Record of Surveys at Page 46, Fresno County Records, the following 2 courses:

3. North 1°06'32" West, 20.00 feet to the North right-of-way line of Behymer Avenue; thence
4. North 89°22'30" East, 1584.19 feet along the North right-of-way line of Behymer Avenue; thence

Leaving the right-of-way of Behymer Avenue, parallel with and 20.00 feet North of the North line of said Northwest quarter, continuing along the Easterly lines of Parcel 1 as well as the Easterly lines of Parcel 2 of Parcel Map No. 2170 according to the map thereof recorded in Volume 13 of Parcel Maps at Page 35, Fresno County Records, also being the centerline of Enterprise Canal for the following 6 courses:

5. South 14°39'10" East, 679.67 feet along said Enterprise Canal; thence
6. South 26°57'27" East, 37.00 feet continuing along said Enterprise Canal; thence
7. South 48°08'27" East, 149.44 feet; thence
8. South 0°13'46" East, 294.28 feet; thence
9. South 24°09'58" East, 170.98 feet; thence
10. South 5°53'29" East, 99.75 feet; thence

Leaving the centerline of Enterprise Canal and running along the North line of Adjusted Parcel B of Lot Line Adjustment No. 21-06 as described in Grant Deed recorded on September 8, 2021 as Document No. 2021-0146955, Official Records Fresno County; along the East and South lines of said Adjusted Parcel B, being the following 15 courses:

11. North 89°22'23" East, 61.02 feet; thence
12. South 0°59'37" East, 72.67 feet to a tangent curve concave to the Northwest; thence

13. 101.97 feet along said curve, through a central angle of 26°33'24" having a radius of 220.00 feet; thence
14. South 25°33’46” West, 342.65 feet to a tangent curve concave to the Southeast; thence
15. 129.78 feet along said curve, through a central angle of 26°33'24" having a radius of 280.00 feet; thence
16. South 0°59’37” East, 492.40 feet; thence
17. South 5°41’23” East, 180.24 feet; thence
18. South 5°16’32” East, 241.23 feet; thence
19. South 17°21’08” East, 355.48 feet to a tangent curve concave to the Northeast; thence
20. 226.11 feet along said curve, through a central angle of 74°01'42" having a radius of 175.00 feet; thence
21. North 88°37’10” East, 159.93 feet; thence
22. North 83°58’08” East, 159.90 feet; thence
23. North 78°57’55” East, 272.20 feet to the East line of the Southwest Quarter of said Section 20; thence
24. South 0°56’40” East, 70.49 feet along said East line; thence
25. South 89°22’03” West, 1324.97 feet along said North line of the Southeast Quarter of the Southwest Quarter; thence

Along the East and South line of the West Half of the Southwest Quarter of Section 20 according to the map of Tract Map No. 6050 thereof recorded in Volume 90 of Plats at Page 37, Fresno County Records, the following 3 courses:

26. South 1°01’26” East, 1956.64 feet along the West line of the Southeast Quarter of the Southwest Quarter of said Section 20 to a point on the North line Shepherd Avenue right-of-way; thence
27. South 89°21’21” West, 1322.00 feet along the North right-of-way line for Shepherd Avenue to a point on the East line of the Southeast Quarter of said Section 19; thence
28. South 1°06’32” East, 30.00 feet along said East line to the **POINT OF BEGINNING**

CONTAINS 200.38 ACRES, MORE OR LESS.

# RESOLUTION 24-__

## RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS APPROVING A VESTING TENTATIVE TRACT MAP FOR A 385-LOT SINGLE-FAMILY SUBDIVISION ON APPROXIMATELY 58.9 ACRES OF PROPERTY LOCATED EAST OF NORTH MINNEWAWA AVENUE BETWEEN EAST PERRIN AND EAST SHEPHERD AVENUES

**WHEREAS,** Lennar Homes of California, LLC ("Applicant"), 8080 N. Palm Avenue Suite 110, Fresno, CA 93711, submitted an application for Vesting Tentative Tract Map 6375 ("TM6375") for a 385-lot single-family subdivision on approximately 58.9 acres of property ("Project") located east of North Minnewawa Avenue between East Perrin and East Shepherd Avenues ("Property"); and

**WHEREAS,** the City published notice of the public hearing in the Fresno Business Journal on December 2, 2024, mailed public notices to property owners within 600 feet of the Property ten (10) days prior to said City Council hearing, and otherwise posted notice of the Public Hearing according to applicable law; and

**WHEREAS,** the Planning Commission considered TM6375 on November 21, 2024, at which time the Commission voted and adopted a resolution recommending that the City Council approve said map; and

**WHEREAS,** the Planning Commission's recommendations were forwarded to the City Council for consideration; and

**WHEREAS,** a duly noticed hearing was held on December 16, 2024, at which time the City Council considered TM6375; and

**WHEREAS,** the City Council has given careful consideration to this map December 16, 2024, and considered the considered the California Environmental Quality Act ("CEQA") analysis outlined in the staff report and elsewhere in the Administrative Record which determines that TM6375 meets the requirements pursuant to CEQA Guidelines and recommends that the City Council adopt of an environmental finding of a mitigated negative declaration and a mitigation monitoring and reporting program; and

**WHEREAS,** the City Council has reviewed and considered the entire Administrative Record relating to this map, which is on file with the City of Clovis Department of Planning and Development Services, and reviewed and considered those portions of the Administrative Record determined to be necessary to make an informed decision, including, but not limited to, the staff report, the written materials submitted with the request, and the verbal and written testimony and other evidence presented during the public hearing, and the conditions of approval attached as **Attachment B** to this Resolution, which are incorporated herein by this reference.

**NOW, THEREFORE, BASED UPON THE ENTIRE RECORD OF THE PROCEEDINGS, THE CITY COUNCIL RESOLVES AND FINDS AS FOLLOWS:**

1. The City Council hereby approves TM6375 as shown in **Attachment A,** subject to the City's Council's approval of as annexation, and subject to the conditions of approval set forth in **Attachment B** to this Resolution.

2. The Project satisfies the required findings for approval of a tentative tract map, as follows:

    a. The proposed map, subdivision design, and improvements are consistent with the General Plan and any applicable specific plan.

    b. The site is physically suitable for the type and proposed density of development.

    c. The design of the subdivision and the proposed improvements are not likely to cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat.

    d. The design of the subdivision or type of improvements is not likely to cause serious public health or safety problems.

    e. The design of the subdivision or the type of improvements will not conflict with easements acquired by the public at large for access through or use of property within the proposed subdivision. This finding may also be made if the review authority finds that alternate easements for access or use will be provided, and that they will be substantially equivalent to ones previously acquired by the public. This finding shall apply only to easements of record, or to easements established by judgment of a court of competent jurisdiction, and no authority is hereby granted to the review authority to determine that the public at large has acquired easements of access through or use of property within the proposed subdivision.

    f. The discharge of sewage from the proposed subdivision into the community sewer system will not result in violation of existing requirements prescribed by the California Regional Water Quality Control Board.

    g. The design of the subdivision provides, to the extent feasible, passive or natural heating and cooling opportunities.

    h. The proposed subdivision, its design, density, and type of development and improvements conform to the regulations of this Development Code and the regulations of any public agency having jurisdiction by law.

3. The City Council has adopted the mitigated negative declaration mitigation and monitoring and reporting program for the TM6375 Project.

4. Without the conditions of approval (**Attachment B** of this resolution), the City Council could not make the findings necessary for approval of TM6375 (attached and labeled **Attachment A**).

5. The basis for the findings is detailed in the December 16, 2024, staff report, which is hereby incorporated by reference, the entire Administrative Record, as well as the evidence and comments presented during the Public Hearing.

* * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED:

_____ _____

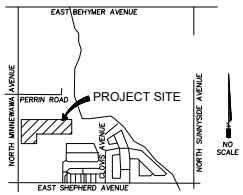
Mayor City Clerk

VESTING

# TENTATIVE TRACT MAP NO. 6375

BEING A PORTION OF THE SOUTHWEST QUARTER OF
SECTION 20, T.12 S., R.21 E., M.D.B.&M.
IN THE CITY OF CLOVIS, COUNTY OF FRESNO, STATE OF CALIFORNIA
FOR LENNAR HOMES OF CALIFORNIA, LLC
CONSISTING OF FIVE SHEETS, SHEET 1 OF 5

## VICINITY MAP:




## LOT INFO:

| LOTS | MIN. WIDTH | MIN. DEPTH | AVG. LOT | RANGE |
|---|---|---|---|---|
| 1 – 188 | 39 FT. | 56 FT. | 2,341 SF | 2,112–2,778 SF |
| 189 – 385 | 45 FT. | 94 FT. | 5,231 SF | 4,230–17,353 SF |
| TOTAL = 385 | | | 3,698 SF | 2,112–17,353 SF |

NET AREA = 50.1 AC
DENSITY = 7.68 DU/AC

FUTURE LOTS:
LOT 386 – FOR BUILD-OUT OF CLOVIS AVENUE
LOT 387 – FOR FUTURE GENERAL PLAN LAND USE AREA

## PARKING SPACE ANALYSIS (LOTS 1-188):

LOTS = 188

STANDARD PARKING STALLS: 124
SIDE STREET PARKING:134
TOTAL PARKING: 258

PROVIDED GARAGE PARKING (2 CARS PER GARAGE):385

## OWNER:

APN(S):556-050-01, 556-050-35

RICCHIUTI PATRICK V TRUSTEE
2917 EAST SHEPHERD AVENUE
CLOVIS, CA 93619

APN(S):556-030-10, 556-030-12

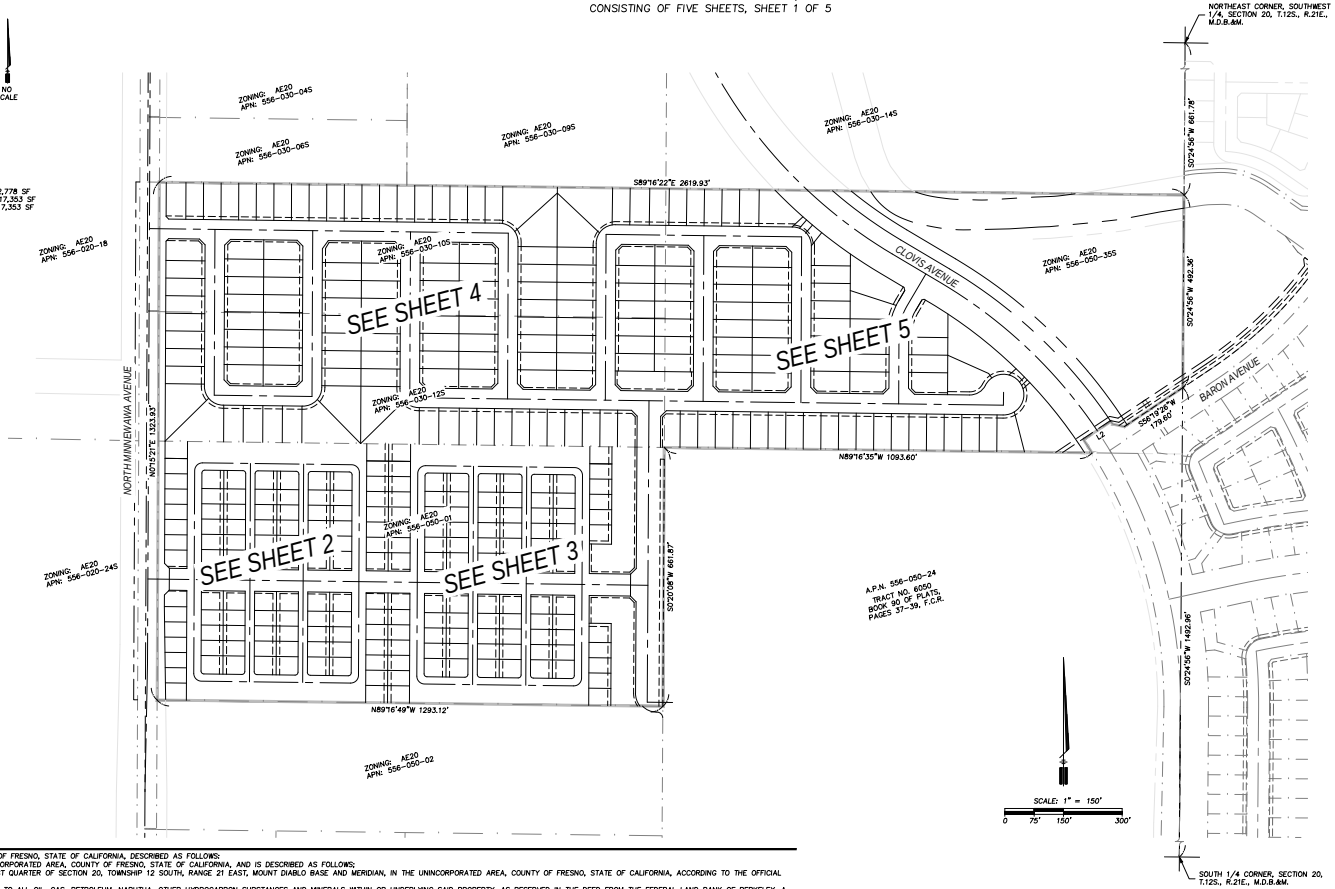
LENNAR HOMES OF CALIFORNIA
8080 N. PALM AVE, SUITE 101
FRESNO, CA 93711
PH. (559)437-4600

## SUBDIVIDER:

LENNAR HOMES OF CALIFORNIA
8080 N. PALM AVE, SUITE 101
FRESNO, CA 93711
PH. (559)437-4600

## PREPARED BY:

YAMABE & HORN ENGINEERING, INC.
2985 N. BURL AVE, SUITE 101
FRESNO, CALIFORNIA 93727
PH. (559) 244-3123




## LEGEND

- LIMITS OF SUBJECT PROPERTY
- PROPOSED PROPERTY LINE
- PROPERTY LINE/RIGHT OF WAY LINE
- SECTION LINE
- EASEMENT LINE
- PUBLIC STREET TO BE OFFERED IN FEE TO THE CITY OF CLOVIS FOR PUBLIC USE.
- CONVEYED TO THE COUNTY OF FRESNO PER DEED RECORDED DEC. 14, 1976, IN BOOK 6706, PAGE 288 O.R.F.C., AS DOCUMENT NO. 111542.
- PROPOSED DRAINAGE DIRECTION
- PROPOSED 6' MASONRY BLOCK WALL

## SITE INFORMATION

EXISTING TREES
TO BE REMOVED

EXISTING BUILDINGS
4

EXISTING LAND USE
VACANT LAND

EXISTING ZONING
AE20 – EXCLUSIVE AGRICULTURAL

PROPOSED ZONING
R-1-PRD (SINGLE-FAMILY PLANNED RESIDENTIAL DEVELOPMENT)

PLANNED LAND USE
M (MEDIUM DENSITY RESIDENTIAL 4.1-7.0 DU/AC)

SOURCE OF WATER
CITY OF CLOVIS

SOURCE OF SEWER
CITY OF CLOVIS

SOURCE OF GAS
PG&E

SOURCE OF TELEPHONE
AT&T

SOURCE OF ELECTRICITY
PG&E

ASSESSOR'S NUMBERS
A.P.N. 556-030-10-S, 556-030-12-S, 556-050-35-S AND 556-050-01

SITE AREA
58.9 ACRES, MORE OR LESS

SITE ADDRESS
MINNEWAWA AVE & SHEPHERD AVE

## BASIS OF BEARINGS

THE EAST LINE OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 12 SOUTH, RANGE 21 EAST AS SHOWN ON THE FINAL MAP OF TRACT 6200 RECORDED IN VOLUME 89 OF PLATS AT PAGES 39-45, OFFICIAL RECORDS FRESNO COUNTY.

TAKEN AS NORTH 0°24'56" EAST.

## LEGAL DESCRIPTION

REAL PROPERTY IN THE UNINCORPORATED AREA OF THE COUNTY OF FRESNO, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:
THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE UNINCORPORATED AREA, COUNTY OF FRESNO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS;
THE SOUTH HALF OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 12 SOUTH, RANGE 21 EAST, MOUNT DIABLO BASE AND MERIDIAN, IN THE UNINCORPORATED AREA, COUNTY OF FRESNO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF.
EXCEPTING THEREFROM AN UNDIVIDED ONE-HALF INTEREST IN AND TO ALL OIL, GAS, PETROLEUM, NAPHTHA, OTHER HYDROCARBON SUBSTANCES AND MINERALS WITHIN OR UNDERLYING SAID PROPERTY, AS RESERVED IN THE DEED FROM THE FEDERAL LAND BANK OF BERKELEY, A CORPORATION, TO FORREST W. FARRAR AND LENA N. FARRAR, HIS WIFE, AS JOINT TENANTS, DATED FEBRUARY 11, 1942, RECORDED MARCH 20, 1942, IN BOOK 2029, PAGE 95 OF OFFICIAL RECORDS, FILE NO. 11298, OFFICIAL RECORDS. EXCEPTING THEREFROM ALL THAT PORTION OF THE SOUTH HALF OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 20, DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHEAST CORNER OF THE SOUTH HALF OF THE NORTHEAST QUARTER OF SAID SOUTHWEST QUARTER; THENCE NORTH 89°16'35" WEST, 180.85 FEET ALONG THE SOUTH LINE OF THE NORTHEAST QUARTER OF SAID SOUTHWEST QUARTER TO THE BEGINNING OF A NON-TANGENT CURVE CONCAVE TO THE SOUTHWEST HAVING A RADIUS OF 1250.00 FEET AND TO WHICH BEGINNING OF SAID NON-TANGENT CURVE A RADIAL LINE BEARS NORTH 59°12'38" EAST; THENCE NORTHWESTERLY, 8.13 FEET ALONG SAID NON-TANGENT CURVE THROUGH A CENTRAL ANGLE OF 0°22'22"; THENCE NORTH 56°19'26" EAST, 223.50 FEET TO A POINT ON THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SOUTHWEST QUARTER; THENCE SOUTH 0°24'56" WEST, 133.19 FEET ALONG SAID EAST LINE TO THE POINT OF BEGINNING.
APN: 556-050-35-S
REAL PROPERTY IN THE UNINCORPORATED AREA OF THE COUNTY OF FRESNO, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:
THE NORTH HALF OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 12 SOUTH, RANGE 21 EAST, MOUNT DIABLO BASE AND MERIDIAN, ACCORDING TO THE UNITES STATES GOVERNMENT TOWNSHIP PLAT;
EXCEPTING THEREFROM THE WESTERLY 30 FEET, AS GRANTED TO THE COUNTY OF FRESNO BY DEED DATED OCTOBER 5, 1976, RECORDED DECEMBER 14, 1976, IN BOOK 6706 PAGE 285, OFFICIAL RECORDS, AS DOCUMENT NO. 111542.
APN: 556-050-01
REAL PROPERTY IN THE UNINCORPORATED AREA OF THE COUNTY OF FRESNO, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:
PARCEL 1:
THE NORTH ONE-HALF OF THE SOUTH ONE-HALF IF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 12 SOUTH, RANGE 21 EAST, MOUNT DIABLO BASE AND MERIDIAN, ACCORDING TO THE UNITED STATES GOVERNMENT TOWNSHIP PLAT;
EXCEPTING THEREFROM THE WESTERLY 30 FEET, AS GRANTED TO THE COUNTY OF FRESNO BY DEED DATED OCTOBER 5, 1976 AND RECORDED DECEMBER 14, 1976, IN BOOK 6706 PAGE 288, OFFICIAL RECORDS, DOCUMENT NO. 111542
ALSO EXCEPTING THEREFROM AN UNDIVIDED 1/4 INTEREST IN AND TO ALL OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES AND MINERALS OF WHATSOEVER KIND AND NATURE IN, UPON OR BENEATH SAID PROPERTY, AS RESERVED IN THE DEED RECORDED JANUARY 21, 1941, IN BOOK 1883 PAGE 461 OF OFFICIAL RECORDS.
ALSO EXCEPTING AN UNDIVIDED 1/4 INTEREST IN AND TO ALL OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES AND MINERALS OF WHATSOEVER KIND AND NATURE IN, UPON AND BENEATH SAID PROPERTY, AS RESERVED IN THE DEED FROM J.R. WOODBURY AND WIFE, TO JACK DOKE AND WIFE, DATED JANUARY 20, 1958 AND RECORDED OCTOBER 23, 1958 IN BOOK 4127 PAGE647 OF OFFICIAL RECORDS.
PARCEL 2:
THE SOUTH HALF OF THE SOUTH HALF OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 12 SOUTH, RANGE 21 EAST, MOUNT DIABLO BASE AND MERIDIAN, ACCORDING TO THE UNITED STATES GOVERNMENT TOWNSHIP PLAT;
EXCEPTING THEREFROM THE WESTERLY 30 FEET, AS GRANTED TO THE COUNTY OF FRESNO BY DEED DATED OCTOBER 5, 1976 AND RECORDED DECEMBER 14, 1976, IN BOOK 6706 PAGE 288, OFFICIAL RECORDS, DOCUMENT NO. 111542.
ALSO EXCEPTING AN UNDIVIDED 1/4 INTEREST IN AND TO ALL OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES AND MINERALS OF WHATSOEVER KIND AND NATURE IN, UPON AND BENEATH SAID PROPERTY, AS RESERVED IN THE DEED FROM J.R. WOODBURY AND WIFE, TO JACK DOKE AND WIFE, DATED JANUARY 20, 1958 AND RECORDED OCTOBER 23, 1958 IN BOOK 4127 PAGE 647 OF OFFICIAL RECORDS.
PARCEL 3:
THE EAST 639.00 FEET OF LOTS 13 AND 14 OF GARFIELD COLONY, IN THE COUNTY OF FRESNO, STATE OF CALIFORNIA, ACCORDING TO THE MAP THEREOF RECORDED IN BOOK 2, PAGE 46 OF RECORD OF SURVEYS, BEING A PORTION OF SECTION 18, TOWNSHIP 12 SOUTH, RANGE 21 EAST, MOUNT DIABLO BASE AND MERIDIAN, FRESNO COUNTY RECORDS.
EXCEPTING THEREFROM THAT PORTION GRANTED TO THE COUNTY OF FRESNO BY GRANT DEED RECORDED IN BOOK 6694, AT PAGE 428 OF OFFICIAL RECORDS OF FRESNO COUNTY.
A.P.N. 556-030-10-S, 556-030-12-S AND 580-072-39

## NOTES:

1. EXISTING ABOVE GROUND USES OR STRUCTURES SUCH AS BUILDING, WATER WELLS, POWER LINES, TOWERS, ETC., WITHIN THE PROPOSED SUBDIVISION TO BE REMOVED.
2. THIS AREA IS NOT SUBJECT TO FLOOD INUNDATION.
3. EXISTING UNDERGROUND FEATURES SUCH AS WELLS, CESSPOOLS, SEWERS, CULVERTS, STORM DRAIN, AND OTHER UNDERGROUND STRUCTURES WITHIN THE PROPOSED SUBDIVISION TO BE REMOVED.
4. THE DESIGN OF THE PROPOSED SUBDIVISION SHALL PROVIDE TO THE EXTENT FEASIBLE FOR FUTURE PASSIVE OR NATURAL HEATING OR COOLING OPPORTUNITIES AND OTHER MEASURES THAT CONSERVE NONRENEWABLE ENERGY RESOURCES. THIS SUBDIVISION HAS BEEN DESIGNATED WITH XX OF THE LOTS ORIENTED IN A NORTH TO SOUTH ORIENTATION TO TAKE ADVANTAGE OF NATURAL HEATING AND COOLING OPPORTUNITIES.
5. ALL STREETS ADJACENT TO THE BOUNDARIES OF THIS SUBDIVISION HAVE BEEN PREVIOUSLY DEDICATED FOR PUBLIC STREET PURPOSES AND ALL ARE TO REMAIN.
6. THERE ARE NO EXISTING CANALS OR DITCHES LOCATED WITHIN THE PROPOSED SUBDIVISIONS.
7. THIS SITE IS IN FLOOD ZONE "X" AND IS NOT FLOOD PRONE, PER THE FLOOD INSURANCE RATE MAPS.
8. ALL PROPOSED SEWER, WATER, STORM DRAIN, CURB, GUTTER, SIDEWALK, PAVEMENT, STREET TREES, AND STREET LIGHT IMPROVEMENTS ARE TO BE DONE IN ACCORDANCE WITH CITY OF FRESNO STANDARD SPECIFICATIONS.
9. TO BE DEDICATED FOR PRIVATE ROAD AND PUBLIC & PRIVATE UTILITY PURPOSES:
   OUTLOT 'A' = 309,350 SQ.FT.
10. TO BE DEDICATED FOR PARK AND LANDSCAPE PURPOSES:
    OUTLOT 'B' = 21,769 SQ.FT.*
    OUTLOT 'C' = 24,868 SQ.FT.*
    OUTLOT 'D' = 9,788 SQ.FT.*
    OUTLOT 'E' = 1,944 SQ.FT.
    OUTLOT 'F' = 984 SQ.FT.
11. TO BE DEDICATED TO CITY OF CLOVIS FOR OPEN SPACE PURPOSES:
    OUTLOT 'G' = 53,420 SQ.FT.

MIN. REQUIRED = 1.04 ACRES
*PROVIDED = 1.29 ACRES

**Attachment A**

REGISTERED PROFESSIONAL ENGINEER BRANDON A. BROOKSHIRE No. 64518 CIVIL STATE OF CALIFORNIA

Yamabe & Horn Engineering, Inc.
2985 N. BURL AVENUE SUITE 101 FRESNO, CA 93727
TEL: (559) 244-3123 WEBSITE: YAMEHENGR.COM

| APPROVALS | APPROVED (INITIALS) |
|---|---|
| CONSTRUCTION MANAGEMENT | |
| FEE ADMINISTRATION | |
| DEVELOPMENT REVIEW | |
| STREETS | |
| PARKS | |
| SOLID WASTE | |
| UTILITIES | |

| REVISIONS | DATE | APPROVED |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

CITY OF CLOVIS

PROJECT TITLE
TRACT NO. 6375
MINNEWAWA & SHEPHERD

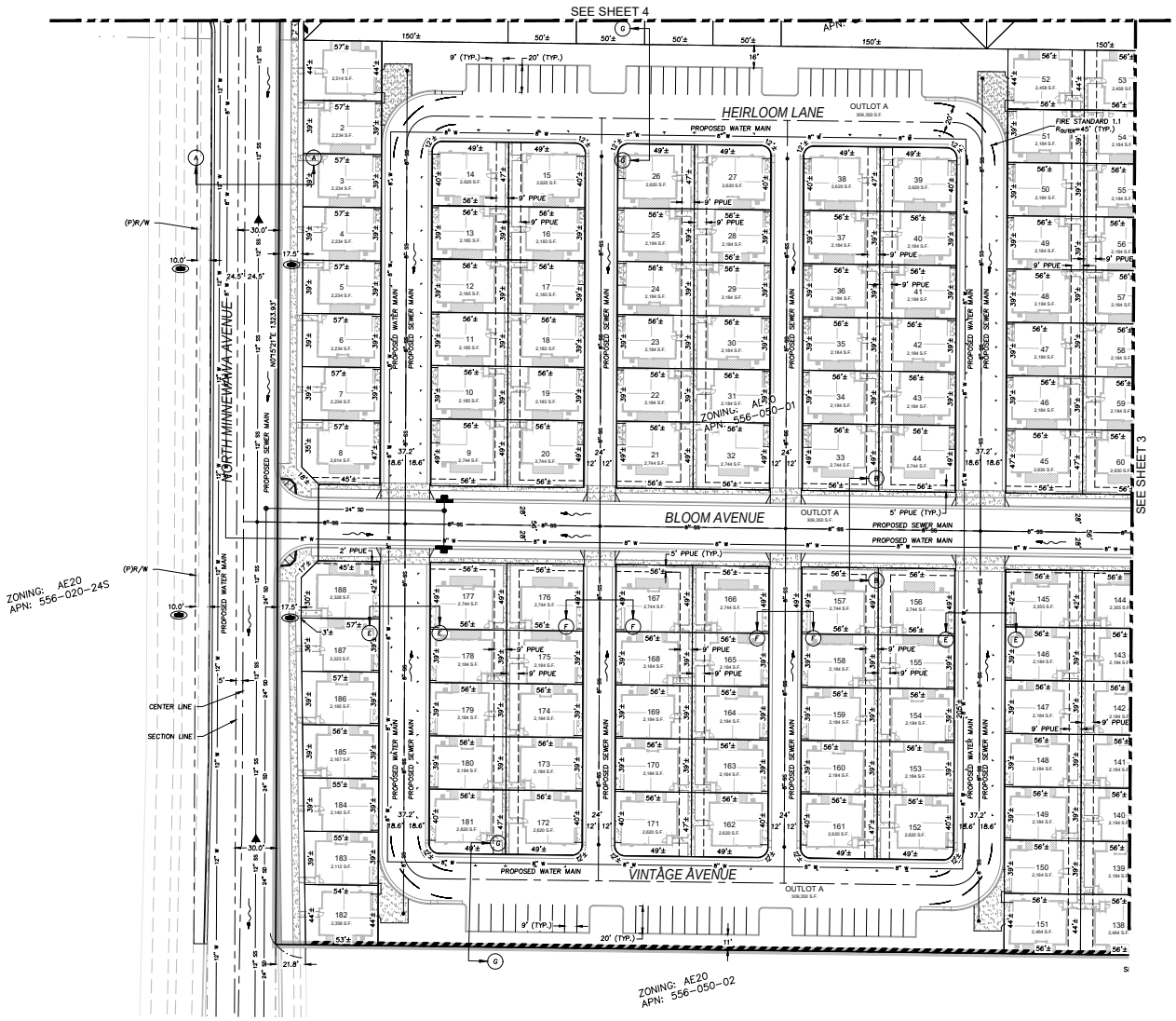
SHEET DESCRIPTION
COVER SHEET

PLANNING AND DEVELOPMENT SERVICES DEPARTMENT

Y&H No. 21-0
Dr. By: CS
Ch. By: BB
Date: 8/8/2024

1925

Plot By: Alex Sandoval Plot Date: 10/29/2024 File Location: F:\2021\21-150\dwg\Maps\Tentative Maps\21-150_TTM_SHT 1.dwg




*LEGEND*

PUBLIC STREET TO BE OFFERED IN FEE TO THE CITY OF CLOVIS FOR PUBLIC USE.

CONVEYED TO THE COUNTY OF FRESNO PER DEED RECORDED DEC. 14, 1976, IN BOOK 6706, PAGE 288 O.R.F.C., AS DOCUMENT NO. 111542.

SCALE: 1" = 40'

0 20' 40' 80'

REGISTERED PROFESSIONAL ENGINEER BRANDON A. BROADBENT No. 64518 CIVIL STATE OF CALIFORNIA

Yamabe & Horn Engineering, Inc.
2985 N. BURL AVENUE SUITE 101 FRESNO, CA 93727
TEL: (559) 244-1123 WEBSITE: YAMEHENGR.COM

APPROVALS

| | APPROVED (INITIALS) |
|---|---|
| CONSTRUCTION MANAGEMENT | |
| FEE ADMINISTRATION | |
| DEVELOPMENT REVIEW | |
| STREETS | |
| PARKS | |
| SOLID WASTE | |
| UTILITIES | |

REVISIONS

| | DATE | APPROVED |
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| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

CITY OF CLOVIS

PROJECT TITLE
TRACT NO. 6375
MINNEWAWA & SHEPHERD

SHEET DESCRIPTION
MULTI-FAMILY

PLANNING AND DEVELOPMENT SERVICES DEPARTMENT

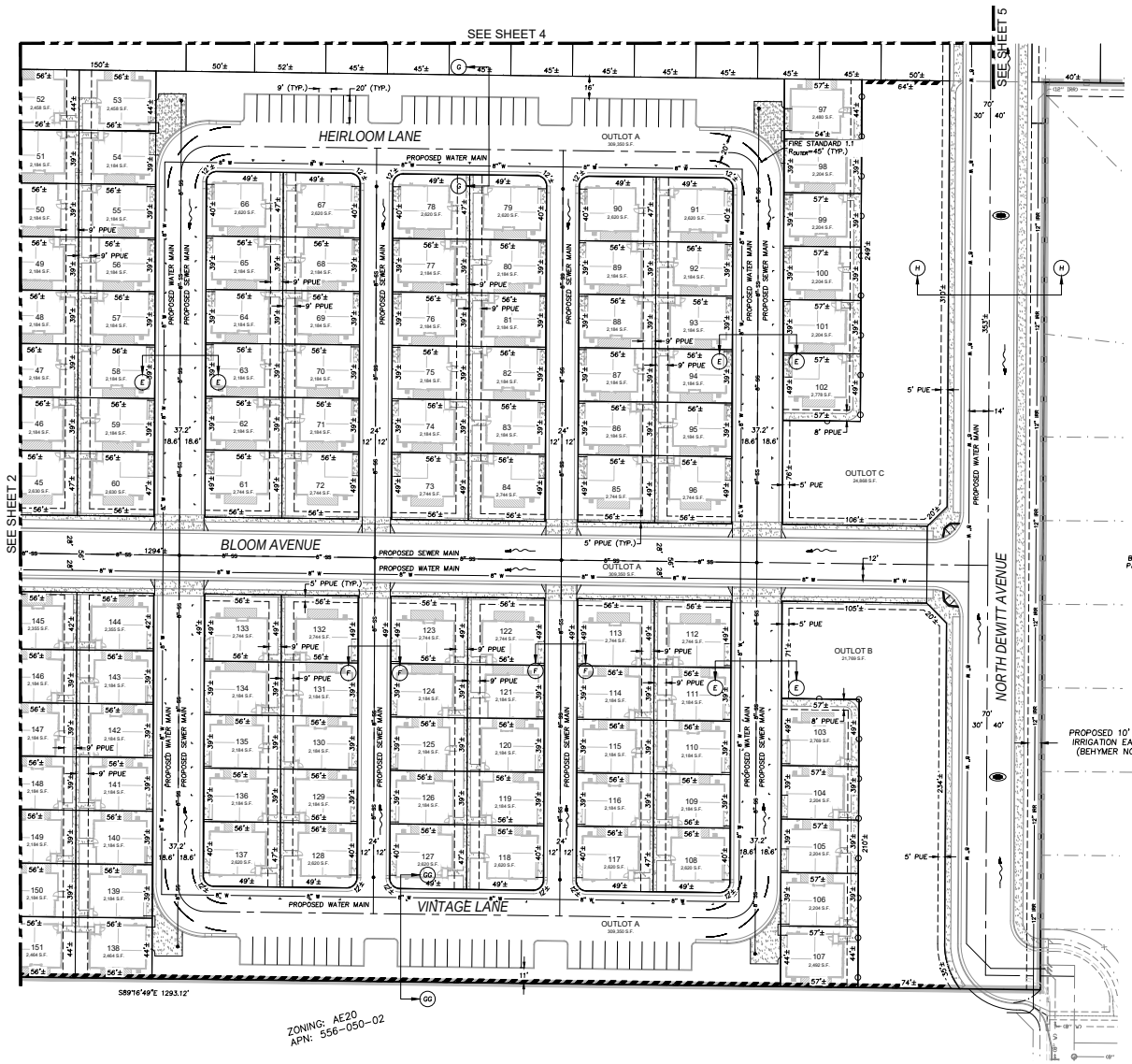
| | |
|---|---|
| Y&H No. | 21-1 |
| Dr. By: | CS |
| Ch. By: | BB |
| Date: | 8/8/202 |

1926

Plot By: Alec Sandoval Plot Date: 10/29/2024 File Location: F:\2021\21-156\dwg\Map\Tentative Map\21-156_TTM_SHT 2.dwg

LEGEND

PUBLIC STREET TO BE OFFERED IN FEE TO THE CITY OF CLOVIS FOR PUBLIC USE.




SCALE: 1" = 40'

0 20' 40' 80'

REGISTERED PROFESSIONAL ENGINEER
BRANDON A. BROOKSHIRE
No. 64518
CIVIL
STATE OF CALIFORNIA

Yamabe & Horn Engineering, Inc.
2885 N. BURL AVENUE SUITE 101 FRESNO, CA 93727
TEL: (559) 244-1120 WEBSITE: YAMEHENGR.COM

APPROVALS

| | APPROVED (INITIALS) |
|---|---|
| CONSTRUCTION MANAGEMENT | |
| FEE ADMINISTRATION | |
| DEVELOPMENT REVIEW | |
| STREETS | |
| PARKS | |
| SOLID WASTE | |
| UTILITIES | |

REVISIONS

| | DATE | APPROVED |
|---|---|---|
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| 2 | | |
| 3 | | |
| 4 | | |

CITY OF CLOVIS

PROJECT TITLE
TRACT NO. 6375
MINNEWAWA & SHEPHERD

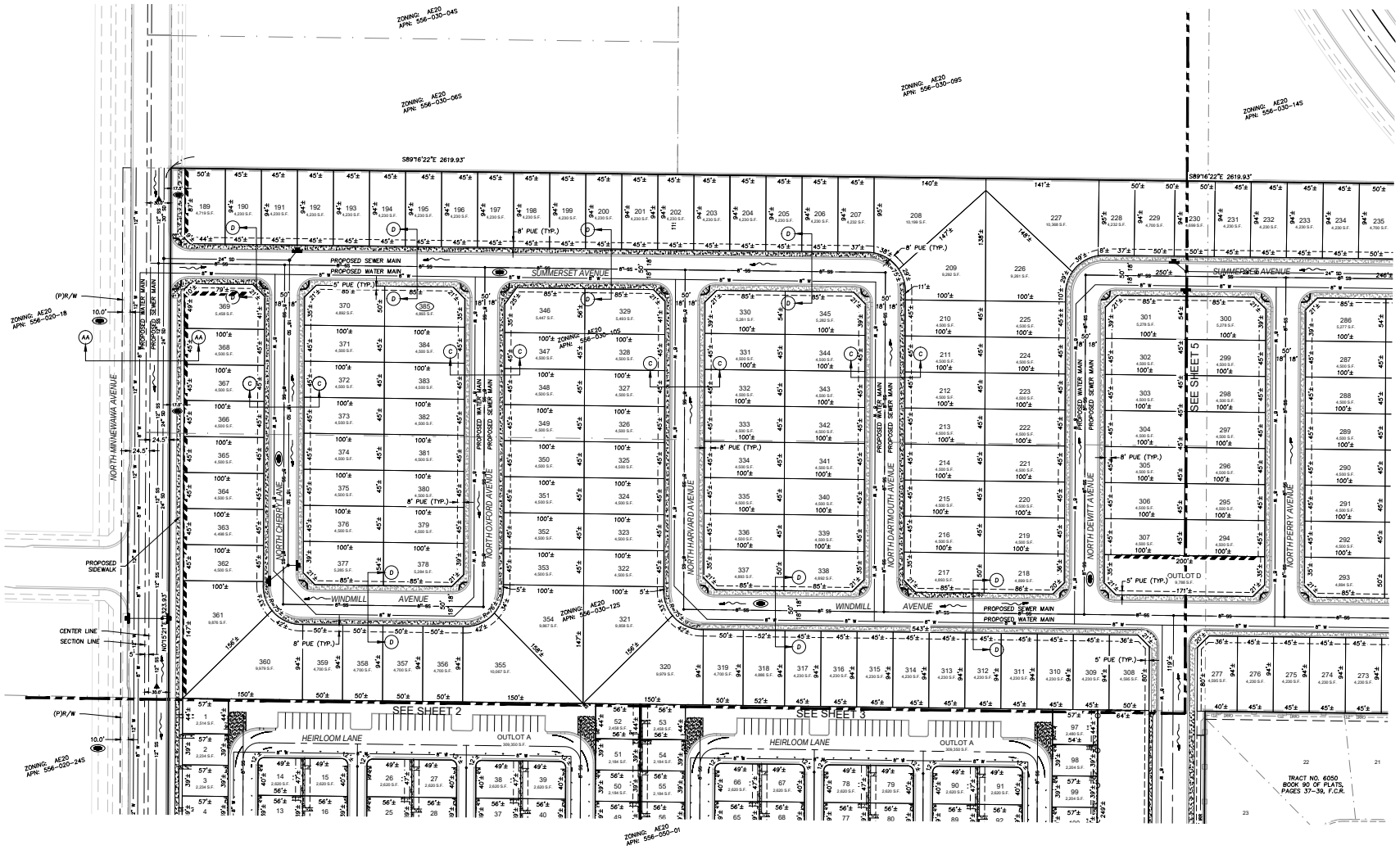
SHEET DESCRIPTION
MULTI-FAMILY

PLANNING AND DEVELOPMENT SERVICES DEPARTMENT

Y&H No. 21-1
Dr. By: CS
Ch. By: BB
Date: 8/8/202

1927

Plot By: Alec Sandoval Plot Date: 10/29/2024 File Location: F:\2021\21-156\dwg\Map\Tentative Map\21-156_TTM_SHT 3.dwg




REGISTERED PROFESSIONAL ENGINEER
BRANDON A. BROOKSHIRE
No. 64518
CIVIL
STATE OF CALIFORNIA

Yamabe & Horn Engineering, Inc.
2885 N. BURL AVENUE SUITE 101 FRESNO, CA 93727
TEL: (559) 244-1123 WEBSITE: YAMEHENGR.COM

APPROVALS

| | APPROVED (INITIALS) |
|---|---|
| CONSTRUCTION MANAGEMENT | |
| FEE ADMINISTRATION | |
| DEVELOPMENT REVIEW | |
| STREETS | |
| PARKS | |
| SOLID WASTE | |
| UTILITIES | |

REVISIONS

| | DATE | APPROVED |
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| 1 | | |
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CITY OF CLOVIS

PROJECT TITLE
TRACT NO. 6375
MINNEWAWA & SHEPHERD

SHEET DESCRIPTION
RESIDENTIAL

PLANNING AND DEVELOPMENT SERVICES DEPARTMENT

| | |
|---|---|
| Y&H No. | 21-0 |
| Dr. By: | CS |
| Ch. By: | BB |
| Date: | 8/8/202 |

1928

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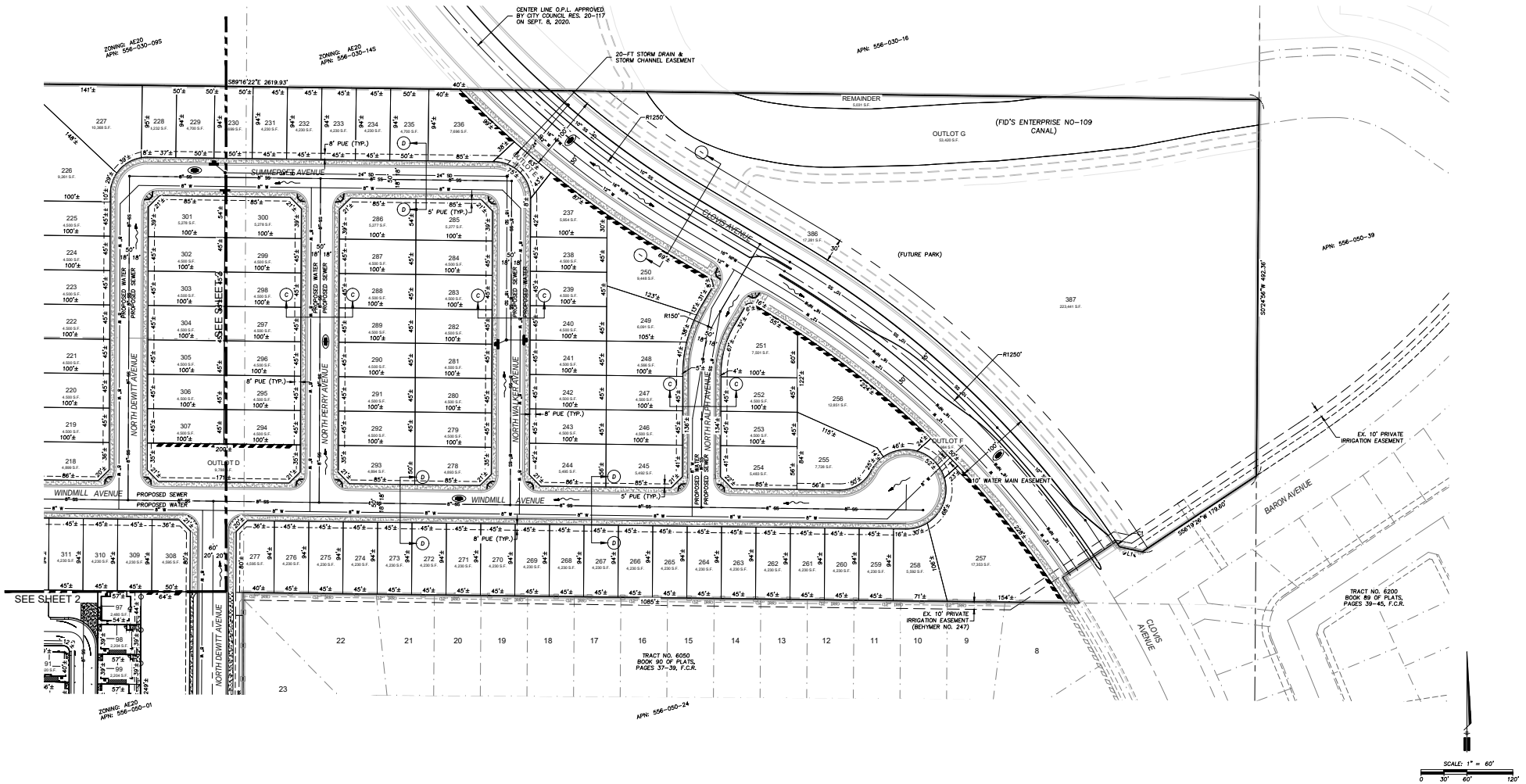


SCALE: 1" = 60'
0 30' 60' 120'

REGISTERED PROFESSIONAL ENGINEER
BRANDON A. BROADBENT
No. 64518
CIVIL
STATE OF CALIFORNIA

Yamabe & Horn Engineering, Inc.
2885 N. BURL AVENUE SUITE 101 FRESNO, CA 93727
TEL: (559) 244-1123 WEBSITE: YAMEHENGR.COM

| APPROVALS | APPROVED (INITIALS) |
|---|---|
| CONSTRUCTION MANAGEMENT | |
| FEE ADMINISTRATION | |
| DEVELOPMENT REVIEW | |
| STREETS | |
| PARKS | |
| SOLID WASTE | |
| UTILITIES | |

| REVISIONS | DATE | APPROVED |
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| 1 | | |
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CITY OF CLOVIS

PROJECT TITLE
TRACT NO. 6375
MINNEWAWA & SHEPHERD

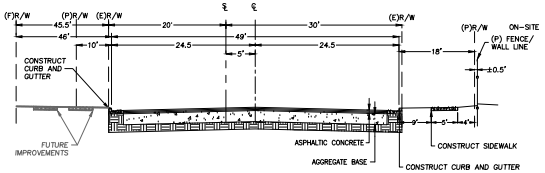
SHEET DESCRIPTION
RESIDENTIAL

PLANNING AND DEVELOPMENT SERVICES DEPARTMENT

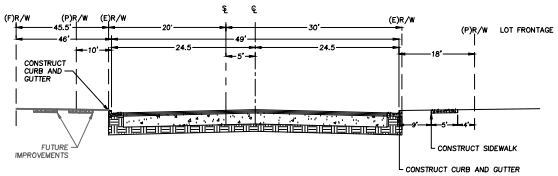
| | |
|---|---|
| Y&H No. | 21-0 |
| Dr. By: | CS |
| Ch. By: | BB |
| Date: | 8/8/202 |

1929

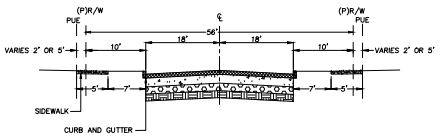
Plot By: Alec Sandoval Plot Date: 10/29/2024 File Location: F:\2021\21-156\dwg\Maps\Tentative Map\21-156_TTM_SHT 5.dwg



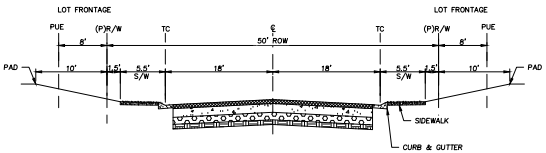

A NORTH MINNEWAWA AVENUE DETAIL



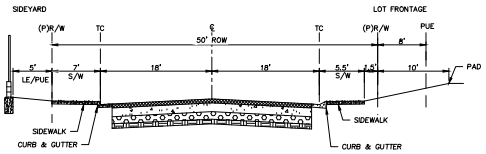

AA NORTH MINNEWAWA AVENUE DETAIL



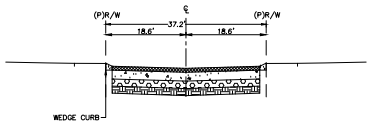

B 56' LOCAL STREET DETAIL




C 50' LOCAL RESIDENTIAL STREET

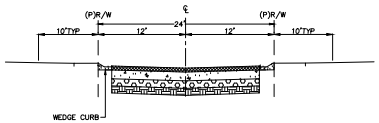



D 50' LOCAL RESIDENTIAL STREET



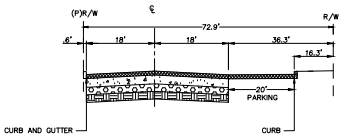

E 37.2' ALLEY DETAIL

*GARAGE BOTH SIDES

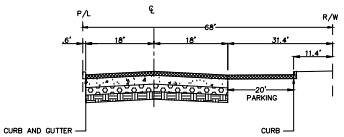



F 24' ALLEY DETAIL

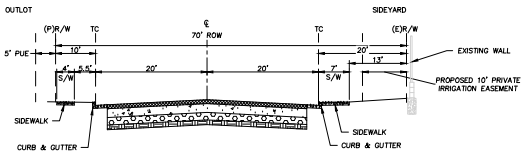
*GARAGE BOTH SIDES



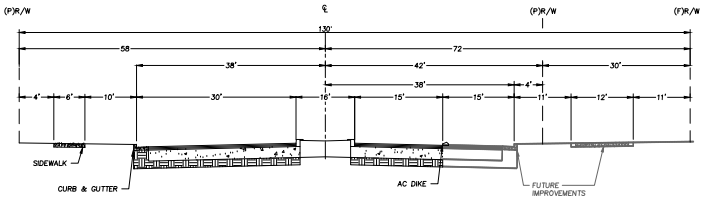

G 73' LOCAL STREET DETAIL




GG 68' LOCAL STREET DETAIL




H NORTH DEWITT AVENUE




I NORTH CLOVIS AVENUE


REGISTERED PROFESSIONAL ENGINEER BRANDON A. BROOKSHIRE No. 64518 CIVIL STATE OF CALIFORNIA

Yamabe & Horn Engineering, Inc.
2885 N. BURL AVENUE SUITE 101 FRESNO, CA 93727
TEL: (559) 244-1123 WEBSITE: YAMABEHORN.COM


| APPROVALS | APPROVED (INITIALS) |
|---|---|
| CONSTRUCTION MANAGEMENT | |
| FEE ADMINISTRATION | |
| DEVELOPMENT REVIEW | |
| STREETS | |
| PARKS | |
| SOLID WASTE | |
| UTILITIES | |

| REVISIONS | DATE | APPROVED |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
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CITY OF CLOVIS

PROJECT TITLE: TRACT NO. 6375 MINNEWAWA & SHEPHERD

SHEET DESCRIPTION: CROSS SECTIONS

PLANNING AND DEVELOPMENT SERVICES DEPARTMENT

Y&H No. 21-

Dr. By: CS

Ch. By: BB

Date: 8/8/202

1930

Plot By: Alec Sandoval Plot Date: 10/29/2024 File Location: F:\2021\21-156\dwg\Maps\Tentative Maps\21-156_TTM_SHT 6.dwg

**Attachment B**
**Conditions of Approval – TM6375**
**Planning Division Comments**
(Liz Salazar, Assistant Planner – 559-324-2305)

1. The developer shall comply with all mitigation measures identified in the Mitigation Monitoring and Reporting Program prepared for the Project, included as **Attachment 8** to the staff report.

2. TM6375 is approved per **Attachment A**.

3. This Project is subject to the development standards of the Heritage Grove Master Plan.

4. Prezone 2024-005 approves an R-1-PRD (Planned Residential Development) Zone District for the Project site. Density shall be consistent with the Medium Density Land Use Designation of the Clovis General Plan.

5. The proposed project shall produce a comprehensive development of superior quality than which might otherwise occur from more traditional development on the site which will be reviewed and approved through the civil plan review process and residential site plan review (RSPR).

6. The developer shall enter into a Homeowner's Association (HOA) covenant regarding the maintenance of open space, common areas, and private drive aisles. Such agreements shall be disclosed to all future home buyers. The HOA shall be formed and functioning prior to tract acceptance.

7. The developer shall obtain City approval in advance of temporary and permanent subdivision signs through separate sign review, consistent with the development criteria of the Development Code Sign Ordinance.

8. No more than two of the same unit type (floor layout and exterior materials package) shall be repeated side by side. When two of the same units are repeated side by side, they shall be different colors. These identical provisions may be waived by the City Planner on a specific lot basis within the project when the size or configuration of a lot would otherwise prevent compliance with the above requirements of any other siting or setback/yard requirements established under this application. If such a waiver is requested, the developer and City Planner shall work together to ensure that any sitings of units not in compliance with the above requirements shall be of different materials and elevations in order to minimize any adverse visual impacts that may result.

9. TM6375 is subject to the development standards of Planned Development Permit (PDP) 2024-001 and any amendments thereafter**.** Any development standards not expressed within PDP2024-001 and TM6375 shall be subject to the underlying Zone District R-1-PRD Standards and Guidelines, and the Development Code.

10. A RSPR is required to memorialize building plans and elevations for the different product types of TM6375. Specific color and materials of the models, walls, amenities, landscaping, and fencing will be evaluated through the civil plans.

11. Setbacks shall be measured to the exterior face of the framing of the structure. Exceptions to the setbacks are identified in section 9.24.100, of the Development Code.

12. Development standards for the lots of TM6375 shall be as follows:

| **Standard** | **Housing Products** | | |
|---|---|---|---|
| | **Wilde (188 units)** | **Treasures (90 units)** | **Core (107 units)** |
| Minimum Lot Size (Square Feet) | 2,112 | 4,230 | 4,230 |
| Minimum Parcel Width | 39’ | 45’ | 45’ |
| Minimum Corner Parcel Width | N/A | 50’ | 50’ |
| Minimum Reverse Parcel Width | N/A | 55’ | 55’ |
| Minimum Parcel Depth | 53’ | 94’ | 94’ |
| Maximum Lot Coverage | 62% | 52% | 45% |
| Maximum Height | 26’ 7” | 18’ 11” | 25’ 3” |
| Front (Garage side) Setback | 4’ | 20’ | 20’ |
| Front (Living side) Setback | 10’ | 12’ | 12’ |
| Interior Side Setback | 0’ non-patio side 7’ patio side | 5’ | 5’ |
| Street Side Setbacks | 3’ | 10’ | 10’ |
| Rear Setback | 10’ | 10’ | 20’ |
| Garages | 20’x20’ interior dimension (2-car) | 20’x20’ interior dimension (2-car) | 20’x20’ interior dimension (2-car) |

13. North Minnewawa Avenue is designated as a thematic street and shall have an 18-foot parkway, with a 9-foot landscape buffer adjacent to the right-of-way, 5-foot walk, and 4-foot landscape buffer setback.

14. Clovis Avenue is designated as a community boulevard and shall have an 20-foot parkway, with a 10-foot landscape buffer adjacent to the right-of-way, 6-foot walk, and 4-foot landscape buffer setback.

15. The developer shall construct a minimum six-foot high solid split face masonry wall along the limits of TM6375 adjacent to N. Minnewawa and Clovis Avenue.

16. Each lot with a zero (0) foot interior setback shall enter into a recordable covenant that provides access to each abutting property for repair and maintenance and other provisions as deemed necessary by the Planning and Development Services Director.

17. To ensure consistency with the conditions of approval for TM6375, the developer shall provide, for the Planning Department's review and approval, a copy of the Conditions, Covenants, and Restrictions prior to start of construction of homes on any lots.

18. The developer shall utilize street lights along local and private streets within the development area that are of the same design and luminosity as surrounding developments within Heritage Grove.

19. The developer shall contribute a proportionate share towards the acquisition and development of future parks in order for the City to maintain its adopted ratio of providing four (4) acres of parkland per 1,000 residents, as stated in Policy 1.1 in the Open Space and Conservation Element of the 2014 General Plan. The proportionate fair share will be accessed by the Engineering Division.

20. All lighting shall be screened from direct view from the public right-of-way and adjacent residential properties.

21. All landscaping (open space and private yards) shall conform to the City of Clovis Water Efficient Landscape Ordinance.

22. Landscape plans shall be reviewed and approved separately by the landscape review committee with the civil set for tree and landscape type and location.

23. Lots 1-188 shall provide an all-weather surface and path for the placement and storage of trash toters. The paved path shall lead from the street to the fenced noncovered patio areas within the 7-foot side yard to the street. The fenced noncovered patio area shall provide gate access.

24. Placement of trash toters for service pick-up shall be approved by the Engineering Division. The developer shall restrict parking on trash service days along private streets as necessary in order to accommodate service for lots 1-188. If deemed necessary "Bloom Avenue" may be required as a private street to maintain "no parking" on trash service days. A minimum of 188 guest parking shall be maintained within the Wilde Series.

25. Landscape features and forms within amenity areas shall be consistent with Heritage Grove Design Guidelines. Details shall be provided in the construction plan.

26. Three (3) pocket parks totaling approximately 56,400 square feet with associated amenities shall be constructed as the private amenity.

27. As a public amenity for the Project, the developer shall contribute the dollar amount totaling $95,450 to the City for utilization in existing or future open space and/or park improvements.

28. The developer shall record a Covenant regarding a "right to farm," for adjacent property owners. Such agreement shall be disclosed to all future home buyers.

29. The applicant shall record a Notice of Nonconformance dealing with any structure used for model homes where the garage is converted for the use as a sales office.

30. Upon final recordation of this vesting tentative tract map, it shall be the applicant's responsibility to furnish to the Planning Department an electronic (PDF) copy of the original map obtained from the Fresno County Recorder's Office.

31. The applicant shall relay all conditions of approval for TM6375 to all subsequent purchasers of individual lots, if applicable, and/or to subsequent purchasers of this entire tract map development.

32. Prior to the final map acceptance, the developer shall incorporate an 8-foot wide pedestrian easement along the eastern property line, adjacent to the future City water storage tank(s) site.

## Fire Department Conditions

(Rick Fultz, Fire Department Representative – 559-324-2224)

### Roads/ Access

33. ***Two Points of Access:*** Any development to this parcel will require a minimum of two (2) points of access to be reviewed and approved by the Clovis Fire Department. All required access drives shall remain accessible during all phases of construction which includes paving, concrete work, underground work, landscaping, perimeter walls. Developments of one- or two-family dwellings where the number of dwelling units exceeds 30 shall be provided with two separate and approved fire apparatus access roads.

34. ***Street Width for Single Family Residences:*** Minimum Access Road Width of 36 feet for Single Family Residences. Roads 36 feet or wider allow for Parking on both sides of street.

35. **Exception Streets with houses on only one side of the street:** Roads 32 feet or greater, to less than 36 feet in width require Fire Lane Markings on one side of the street. Parking is allowed on one side of street.

36. ***Street Width:*** Fire apparatus access width shall be determined by measuring from "base of curb" to "base of curb" for roadways that have curbs. When roadways do not have curbs, the measurements shall be from the edge of the roadway surface (approved all weather surface).

37. ***Turning Radius:*** All access way roads constructed shall be designed with a minimum outside turning radius of forty-five feet (45').

38. ***Temporary Street Signs:*** The applicant shall install temporary street signs that meet City Temporary Street Sign Standard #1.9 prior to issuance of building permits within a subdivision.

39. ***All Weather Access &Water Supply:*** The applicant shall provide all weather access to the site during all phases of construction to the satisfaction of the approved Clovis Fire Department Standard #1.2 or #1.3.

40. ***Private Street Names:*** Private street names shall be consistent with public street names to the north and south or to the east and west alignments as approved by the Fire Department.

41. ***Fire Access – Landscape Obstruction:*** Landscaping trees or shrubs located adjacent to the fire access drives shall be of the type that will not impede fire access due to their growth process.

**Fire Hydrants**

42. ***Residential Fire Hydrant:*** 4 ½" x 2 ½" approved Residential Type fire hydrant(s) and "Blue Dot" hydrant locators, paint fire hydrant(s) yellow with blue top and caps, and paint the curb red shall be installed as specified by the adopted Clovis Fire Department Standard #1.4. Plans shall be submitted to the Clovis Fire Department for review and approval prior to installation. The hydrants shall be charged and in operation prior to any framing or combustible material being brought onto the site. Hydrants curb markings and blue dots to be completed prior to occupancy of any homes.

43. ***Looped Water Main:*** The applicant shall install approved looped water main capable of the necessary flow of water for adequate fire protection and approved by the Clovis Fire Department

**Engineering / Utilities / Solid Waste Division Conditions**
(Sean Smith, Engineering Division Representative – 559-324-2363)
(Paul Armendariz, Department Representative – 559-324-2649)

**Maps and Plans**

44. The applicant shall have a final tract map prepared, in the form prescribed by the Subdivision Map Act and City of Clovis Municipal Code. The final tract map shall be submitted to the City of Clovis Engineering Division, and should include, but not be limited to, final tract map, the current filing fee, closure calculations, current preliminary title report, legal descriptions and drawings of required dedications.

45. The applicant shall submit separately to the City of Clovis Engineering Division, a set of construction plans on 24" x 36" sheets with City standard title block for all required improvements and a current preliminary title report. These plans shall be prepared by a registered civil engineer, and shall include a grading plan, landscape plan, a site plan showing trash enclosure locations and an overall site utility plan showing locations and sizes of sewer, water, storm drain, and irrigation mains, laterals, manholes, meters, valves, hydrants, fire sprinkler services, other facilities, etc. Plan check and inspection fees per

City of Clovis Resolution No. 23-34 shall be paid with the first submittal of said plans. All plans shall be submitted at or before the time the building plans are submitted to the Building Division and shall be approved by the City and all other involved agencies prior to the release of any development permits.

46. Prior to the initial submittal of the improvement plans, the applicant shall contact Sean Smith at (559) 324-2363 to setup a coordination meeting (Pre-submittal Meeting).

47. Upon approval of improvement plans, the applicant shall provide the City with the appropriate number of copies. After all improvements have been constructed and accepted by the City, the applicant shall submit to the City of Clovis Engineering Division (1) digital copy to the City in PDF format of the approved set of construction plans revised to accurately reflect all field conditions and revisions and marked "AS-BUILT" for review and approval. Upon approval of the AS-BUILTs by the City, and prior to granting of final occupancy or final acceptance, the applicant shall provide to the City (1) digital copy in PDF format and two (2) bond copies.

48. The applicant shall comply with reporting requirements in accordance with Government Code 65940.1, which requires the City to, “request from a development proponent, upon issuance of a certificate of occupancy or the final inspection, whichever occurs last, the total amount of fees and exactions associated with the project for which the certificate was issued. The City shall post this information on its internet website, and update it at least twice per year.”

**General Provisions**

49. The applicant shall pay all applicable development fees at the rate in effect at the time of payment and prior to final map approval by Council or have the fees payable directly to the City through a separate escrow account at the time of recordation of the map.

50. The applicant is advised that, pursuant to California Government Code, Section 66020, any party may protest the imposition of fees, dedications, reservations, or other exactions imposed on a development project by a local agency. Protests shall be filed in accordance with the provisions of the California Government Code and shall be filed within 90 days after conditional approval of this application is granted. The 90 day protest period for this project shall begin on the “date of approval” as indicated on the “Acknowledgment of Acceptance of Conditions” form.

51. All reimbursement requests shall be prepared and submitted in accordance with the requirements of the current version of the “Developer Reimbursement Procedures” a copy of which may be obtained at the City Engineer’s Office.

52. The applicant shall install all improvements within public right-of-way and easements in accordance with the City of Clovis standards, specifications, master plans, and record drawings in effect at the time of improvement plan approval.

53. The applicant shall address all conditions, and be responsible for obtaining encroachment permits from the City of Clovis for all work performed within the City's right-of-way and easements.

54. The applicant shall submit a soils report or a waiver of soils report to the City of Clovis Engineering Division for approval by the City Engineer.

55. The applicant shall provide and pay for all geotechnical services per City policy.

56. The applicant shall comply with the requirements of the local utility, telephone, and cable companies. It shall be the responsibility of the applicant to notify the local utility, telephone, and cable companies for the removal or relocation of utility poles where necessary. The City shall not accept first submittals without proof that the applicant has provided the improvement plans and documents showing all proposed work to the utility, telephone, and cable companies. All utility vaults in which lids cannot be sloped to match proposed finished grading, local utilities have 5% max slope, shall be located in sidewalk areas with pedestrian lids so the lid slope matches sidewalk cross slope.

57. All existing overhead and new utility facilities located on-site, within alleys, or within the street right-of-way along the streets adjacent to this tract shall be undergrounded unless otherwise approved by the City Engineer.

58. The applicant shall contact and address all requirements of the United States Postal Service Clovis Office for the location and type of mailboxes to be installed. The location of the facilities shall be approved by the City Engineer prior to approval of improvement plans or any construction.

59. The applicant shall contact and address Caltrans requirements, and be responsible for obtaining encroachment permits from Caltrans for all work performed within the State right-of-way. The applicant shall be required to mitigate impacts to State Highway facilities as determined by the City Engineer.

**Dedications and Street Improvements**

60. The applicant shall provide right-of-way acquisition or dedicate free and clear of all encumbrances and/or improve the following streets to City standards. The street improvements shall be in accordance with the City's specific plans and shall match existing improvements. The applicant's engineer shall be responsible for verifying the type, location, and grades of existing improvements.

    a. North Minnewawa Avenue – dedicate to provide right-of-way acquisition for 42.5' (exist varies) east of centerline and 24.5' (existing 20') west of centerline, and improve with curb, gutter, sidewalk, curb return ramps, street lights, fiber optic conduit, landscape strip, 43' (20.5' west + 22.5' east) permanent paving, permanent paving and overlay as necessary to match the existing permanent pavement, 3' paved swale, and transitional paving as needed.

b. North Clovis Avenue – dedicate to provide right-of-way acquisition for 106' (exist 0'), and improve with curb, gutter, sidewalk, drive approaches, curb return ramps, street lights, fiber optic conduit, median island, median island landscaping and irrigation, landscape strip, 56' (28' west + 28 east') permanent paving, permanent paving and overlay as necessary to match the existing permanent pavement, 3' paved swale, and transitional paving as needed.

c. Interior Streets – Dedicate to provide for 50' or 54' of right-of-way in conformance with the City policy on street widths, and improve with curb, gutter, 5' sidewalk adjacent to the curb, drive approaches, curb return ramps, streetlights, permanent paving, and all transitional paving as needed.

d. Cul-De-Sacs - dedicate to provide for 52' radius and improve with curb, gutter, sidewalk, street lights, 43' permanent paving and all transitional paving as needed.

e. Install a traffic signal at North Baron and North Clovis Avenues and provide the necessary right-of-way for the signal in its ultimate location.

f. The applicant shall relinquish all access to Clovis and Minnewawa Avenues.

g. Median island turn pockets require the approval of the City Engineer.

61. The applicant shall provide a dedication for a 10' public utility easement, where applicable, along all public frontages. The applicant shall be responsible for obtaining approval by the utilities companies where alternate widths are provided. The applicant shall provide to the City copies of all final easements prior to final map acceptance.

62. For new onsite ADA paths of travel that connect to the City sidewalk, the applicant shall replace enough sidewalk to provide a compliant landing with appropriate transitions to existing sidewalk grades.

63. The applicant shall remove and repair all damaged or broken concrete improvements. The City Engineer may require the repair of additional improvements if they are damaged prior to occupancy.

64. The applicant shall not install any fences, temporary or permanent in public right-of-way.

65. The applicant shall provide preliminary title report, legal description and drawings for all dedications required which are not on the site. All contact with owners, appraisers, etc. of the adjacent properties where dedication is needed shall be made only by the City. The City will prepare an estimate of acquisition costs including but not limited to appraised value, appraisal costs, negotiation costs, and administrative costs. The applicant shall pay such estimated costs as soon as they are determined by the City.

66. The sideyard side of all corner lots shall have full width sidewalk except where planter strips or meandering sidewalk is proposed.

67. The applicant shall obtain "R Value" tests in quantity sufficient to represent all street areas, and have street structural sections designed by a registered civil engineer based on these "R Value" tests.

68. The applicant shall, at the ends of any permanent pavement abutting undeveloped property, install 2" x 6" redwood header boards that shall be placed prior to the street surfacing.

69. Standard barricades with reflectors shall be installed at ends of streets abutting undeveloped property and any other locations to be specified by the City Engineer.

**Sewer**

70. The applicant shall identify and abandon all septic systems to City standards.

71. The applicant shall install sanitary sewer mains of the size and in the locations indicated below, prior to occupancy. The sewer improvements shall be in accordance with the City's master plans and shall match existing improvements. The applicant's engineer shall be responsible for verifying the size, location, and elevations of existing improvements. Any alternative routing of the mains shall require approval of the City Engineer and shall be supported by appropriate calculations. The improvements indicated below will provide temporary service until the improvements are installed that provide permanent service.

    a. North Minnewawa Avenue – install 12" main along frontage.

    b. North Clovis Avenue – install 10" main along frontage.

    c. Interior Streets – install 8" mains.

72. The applicant shall install one (1) 4" sewer service house branch to each lot within the tentative tract.

73. All existing sewer services that will not be used with this development shall be abandoned by cutting and capping the service at the right-of-way line.

74. The applicant shall notify all property owners annexed to the City and along streets where a new sewer main will be constructed to determine if they wish to be connected to City sewer. Property owners shall work directly with the applicant regarding costs and location. The applicant shall notify property owners that sewer connection fees are required if they choose to connect.

75. The City cannot guarantee at this time that sewer capacity will be available for this development when site construction occurs. The applicant, therefore, waives any claim or demand against the City for any delay in availability of sewer capacity for this subdivision.

76. Applicant acknowledges that sewage collection and treatment capacity for the area within which the proposed subdivision is located is extremely limited, and that capacity may not be available to provide service for the proposed subdivision at such time as applicant is ready to seek approval of a final map. Applicant acknowledges, understands, and agrees that if such sewage collection and treatment capacity is not available to serve the proposed subdivision, as determined in the sole and absolute discretion of the City of Clovis, the final map may not be approved. Notwithstanding the foregoing, applicant has freely and voluntarily chosen to proceed with the submittal and processing of the tentative map, intends to expend money, time and effort in connection therewith, and accepts the risks that the final map approval may be delayed until sufficient capacity is available as determined in the sole and absolute discretion of the City of Clovis. Applicant agrees to hold harmless and indemnify the City of Clovis from any and all claims, costs, expenses, and damages incurred or suffered by applicant, its principals, officers, employees, agents, or contractors, caused by, in connection with, or arising out of the unavailability of sewage collection or treatment capacity to serve the proposed subdivision, or the City's refusal or failure to approve a final map for the proposed subdivision because of the unavailability of sewage collection or treatment.

    a. Permanent service to the Project requires the improvements indicated below in accordance with the Sewer Master Plan. The City Engineer shall determine the timing of the improvements in the event they are installed by a City CIP project or development.

    b. CIP Project 6-B (DeWolf Trunk Sewer System).

    c. CIP Project 6-A (Shepherd / Willow Pump Station and Force Main System).

    d. CIP Project AA (Phase 2 STWRF Expansion).

**Water**

77. The applicant shall identify and abandon all water wells to City standards.

78. The applicant shall install water mains of the sizes and in the locations indicated below, and provide an adequately looped water system prior to occupancy. The water improvements shall be in accordance with the City's master plans and shall match existing improvements. The applicant's engineer shall be responsible for verifying the size, location, and elevations of existing improvements. Any alternative routing of the mains shall require approval of the City Engineer and shall be supported by appropriate calculations.

    a. North Minnewawa Avenue – install 12" main along frontage.

    b. North Clovis Avenue – install 12" main along frontage.

    c. Interior Streets – install 8" mains.

d. Install facilities to provide separation between Pressure Zone 2 east of North Minnewawa Avenue and Pressure Zone 1 west of North Minnewawa Avenue.

79. The applicant shall install a City standard water service to each lot of the proposed subdivision. Water services shall be grouped at property lines to accommodate automatic meter reading system, including installation of connecting conduit. The water meter shall be placed in the sidewalk and not in planters or driveways.

80. All existing water services that will not be used with this development shall be abandoned by closing the service's corporation stop and creating a physical separation between the corporation stop and the service.

81. The applicant shall notify all property owners' annexed to the City and along streets where a new water main will be constructed to determine if they wish to be connected to City water. Property owners shall work directly with the applicant regarding costs and location. The applicant shall notify property owners that water connection fees are required if they choose to connect.

82. Prior to recording a final map of any phase, the applicant shall demonstrate to the satisfaction of the City Fire Chief and City Engineer that there is adequate water pressure to serve the units to be constructed. The applicant shall work with the City Engineer to determine the adequacy of water supply/pressure for the proposed development.

83. Applicant acknowledges that water distribution and treatment capacity for the area within which the proposed subdivision is located is extremely limited, and that distribution may not be available to provide service for the proposed subdivision at such time as applicant is ready to seek approval of a final map. Applicant acknowledges, understands, and agrees that if such water distribution and treatment capacity is not available to serve the proposed subdivision, as determined in the sole and absolute discretion of the City of Clovis, the final map may not be approved. Notwithstanding the foregoing, applicant has freely and voluntarily chosen to proceed with the submittal and processing of the tentative map, intends to expend money, time and effort in connection therewith, and accepts the risks that the final map approval may be delayed until sufficient distribution is available as determined in the sole and absolute discretion of the City of Clovis. Applicant agrees to hold harmless and indemnify the City of Clovis from any and all claims, costs, expenses, and damages incurred or suffered by applicant, its principals, officers, employees, agents, or contractors, caused by, in connection with, or arising out of the unavailability of water distribution or treatment capacity to serve the proposed subdivision, or the City's refusal or failure to approve a final map for the proposed subdivision because of the unavailability of water distribution or treatment capacity.
    a. The Project requires the improvements indicated below in accordance with the Water Master Plan. The City Engineer shall determine the timing of the improvements in the event they are installed by a City CIP project or development.
    b. P-3 (16" Water Main)

c. P-4 (12” Water Main)
d. T-6 (3.5 MG Tank)
e. T-9 (7 MG Tank)

**Recycled Water**

84. The applicant shall install recycled water mains of the sizes and in the locations indicated below. The recycled water improvements shall be in accordance with the City’s master plans and shall match existing improvements. All areas utilizing recycle water for irrigation shall be clearly marked on the improvement plans. The applicant’s engineer shall be responsible for verifying the size, location, and elevations of existing improvements. Any alternative routing of the mains shall require approval of the City Engineer and may require appropriate calculations.

    a. North Minnewawa Avenue – install 8" main along frontage.

    b. North Clovis Avenue – install 16” main along the property.

    c. Paseos, Trails, and Neighborhood Parks – install mains as necessary to serve the paseos, trails, and the neighborhood parks.

**Grading and Drainage**

85. The applicant shall contact the Fresno Metropolitan Flood Control District (FMFCD) and address all requirements, pay all applicable fees required, obtain any required NPDES permit, and implement Best Available Technology Economically Achievable and Best Conventional Pollutant Control Technology to reduce or eliminate storm water pollution. Plans for these requirements shall be included in the previously required set of construction plans, and shall be submitted to and approved by FMFCD prior to the release of any development permits.

86. Portions of the project appear to lie within a flood zone. The applicant shall comply with the requirements of the City’s Municipal Code.

87. In the event permanent storm drainage facilities are not available, the applicant shall provide temporary on-site retention basins for storm water disposal and provide a cash deposit for each basin to offset the City’s cost of maintaining the basins. The size and design shall be in accordance with the requirements of the City Engineer and may change based on design calculations and access requirements for maintenance. The temporary pond maintenance deposit shall be based on size, depth, expected maintenance schedule, etc. However, the property owner shall be responsible for periodic cleaning of toxic material. The temporary basin is solely for the convenience of the subdivision.

88. The owner of the property on which the temporary basin(s) are located shall backfilled said basin(s) within ninety (90) days after notice is given by the City that the basin(s) are no longer needed. In the event the owner fails to backfill said basin(s) within said 90 days, the

City may cause the basin to be backfilled. A lien to cover the cost of the work will be placed on the property, including the costs to prepare and enforce the lien. A covenant shall be prepared and recorded on the lot on which the basin(s) is/are located.

89. Grade differentials between lots and adjacent properties shall be adequately shown on the grading plan and shall be treated in a manner in conformance with City of Clovis Standard Drawing No. M-4 as modified by the City Council. Any retaining walls required on-site or in public right of way shall be masonry construction. All retaining walls shall be designed by a registered civil engineer.

**Irrigation and Landscaping Facilities**

90. The applicant, as a portion of the required tract improvements, shall provide landscaping and irrigation as required herein. The landscaping and irrigation shall be installed in public right-of-way and the area reserved for landscaping. The irrigation and landscape improvements shall be in accordance with the City's master plans and shall match existing improvements. The applicant's engineer shall be responsible for verifying the size, location, and elevations of existing improvements. Plans for the required landscaping and irrigation systems shall be prepared by an appropriately registered professional at the applicant's expense and shall be approved by the City of Clovis Planning and Development Services Department and Public Utilities Department prior to the beginning of construction or the recording of the final tract map, whichever occurs first. Landscape and irrigation facilities that the City Landscape Maintenance District shall maintain: the mini-park, paseos, paseo lights, interior street lights, entry features, landscape strips along North Minnewawa and North Clovis Avenues, and the median islands in North Clovis Avenue. The landscape strip around the planned unit development may be maintained by a perpetual maintenance covenant.

91. The owner shall request annexation to and provide a covenant for the Landscape Maintenance District. The property owner acknowledges and agrees that such request serves as a petition pursuant to California State Proposition 218 and no further election shall be required for the establishment of the initial assessment. The assessment for each lot shall be obtained from the City for the tax year following the recordation of the final map. The estimated annual assessment per average sized lot is $540.26, which is subject to change prior to issuance of building permit or final tract map approval and is subject to an annual change in the range of the assessment in the amount of the Consumer Price Index, U.S. City Average, All Urban Consumers (CPI Index), plus two percent (2%). The additional landscaping enhancements that exceed the City norms and are specific benefit to the property, such as the entry feature, columns, monuments, interior median islands, round-a-bouts, special street lights, etc, if determined to be maintained by the Landscape Maintenance District, shall be maintained by an additional landscape maintenance assessment. The applicant shall provide construction costs and deposit with the City an amount equal to 50% of the value of the enhanced landscaping hardscape features, or an alternate amount approved by the City Engineer, such as columns, monuments, and special street lights, that exceeds the City norms. The applicant shall provide the City with an estimate of the annual maintenance for the special lighting and landscaping enhancements

that exceeds the City norms. The owner/developer shall notify all potential lot buyers before they actually purchase a lot that this tract is a part of a Landscape Maintenance District and shall inform potential buyers of the assessment amount. Said notification shall be in a manner approved by the City. The owner/developer shall supply all pertinent materials for the Landscape Maintenance District.

92. The applicant shall comply with the City of Clovis Water Efficient Landscape Requirements Ordinance.

93. The applicant shall contact and address all requirements of the Fresno Irrigation District (FID). This may include dedicating easements, piping or relocating any existing FID canals and ditches, replacing any existing irrigation piping, concrete lining or improving any existing canals, construction or reconstruction of any canals, culverts, and bridge crossings. Plans for these requirements and improvements shall be included as in the previously required set of construction plans, and shall be submitted to and approved by FID prior to the release of any development permits or recording of the final tract map. If a FID or private irrigation line is to be abandoned, the applicant shall provide waivers from all downstream users.

94. The applicant shall indicate on construction drawings the depth, location and type of material of any existing Fresno Irrigation District's irrigation line along the proposed or existing street rights-of-way or onsite. Any existing canals shall be piped. The material of the existing pipe shall be upgraded to the proper class of rubber gasket pipe at all locations unless otherwise approved by the City Engineer.

95. The applicant shall apply to the Fresno Irrigation District (FID) for transfer of irrigation water rights to the City of Clovis, if the property has not already been removed from FID and transferred to the City. The applicant shall execute a “Request for Change of Relative Value” that can be obtained and processed through FID. The applicant shall provide a copy of the completed form to the City.

96. All existing agricultural irrigation systems either on-site or in public right of way, whether FID or privately owned, shall be identified prior to any construction activity on the site. Service to all downstream users of irrigation water shall be maintained at all times through preservation of existing facilities or, if the existing facilities are required to be relocated, the relocation and replacement of the existing facilities. It is the intent that downstream users not bear any burden as a result of development of the site. Therefore, the applicant shall pay all costs related to modification, relocation, or repair of any existing irrigation facilities resulting from or necessitated by the development of the site. The applicant shall identify on site plans and construction plans, all existing irrigation systems and their disposition (abandonment, repair, relocation, and/or piping). The applicant shall consult with the Fresno Irrigation District for any additional requirements for lines to be abandoned, relocated, or piped. The applicant shall provide waivers from all users in order to abandon or modify any irrigation pipelines or for any service interruptions resulting from development activities.

97. The applicant shall provide a landscape and irrigation perpetual maintenance covenant recorded for landscaping installed in the public right-of-way behind the curb including easements that will not be maintained by the Clovis Landscape Maintenance District. A recordable covenant shall be submitted to and approved by the City of Clovis City Engineer prior to final map approval.

98. The applicant shall provide a perimeter wall perpetual maintenance covenant on all properties that have a perimeter wall that is installed on private property. A recordable covenant shall be submitted to and approved by the City of Clovis City Engineer prior to final map approval.

**Miscellaneous**

99. The applicant shall install street lights. Street lights along the major streets shall be installed on metal poles to local utility provider's standards at the locations designated by the City Engineer. Street light locations shall be shown on the utility plans submitted with the final map for approval. Street lights at future traffic signal locations shall be installed on approved traffic signal poles, including all conduits and pull boxes. Street lights along the major streets shall be owned and maintained by local utility providers. Proof of local utility provider's approval shall be provided. The applicant may install thematic lighting, as approved by the City Engineer. If the applicant chooses to install thematic lighting, the applicant shall provide a conceptual lighting plan identifying adjacent properties that may be incorporated with thematic lights to create a neighborhood effect. Thematic lighting owned by the City shall be maintained by an additional landscape maintenance assessment.

100. The applicant shall install all major street monumentation and section corner monumentation within the limits of the project work in accordance with City Standard ST-32 prior to final acceptance of the project. Monumentation shall include all section corners, all street centerline intersection points, angle points and beginning and end of curves (E.C.'s & B.C.'s). The applicant/contractor shall furnish brass caps. Any existing section corner or property corner monuments damaged by this development shall be reset to the satisfaction of the City Engineer. A licensed land surveyor or civil engineer licensed to perform land surveying shall certify the placement of all required monumentation prior to final acceptance. Brass caps required for installation of new monuments or replacement of existing monuments shall be provided by the contractor/the applicant and approved by City prior to installation. Within five days after the final setting of all monuments has been completed, the engineer or surveyor shall give written notice to the City Engineer that the final monuments have been set. Upon payment to the engineer or surveyor for setting the final monuments, the applicant shall present to the City Engineer evidence of the payment and receipt thereof by the engineer or surveyor.

101. A deferment, modification, or waiver of any engineering conditions shall require the express written approval of the City Engineer.

102. The conditions given herein are for the entire development. Additional requirements for individual phases may be necessary pending review by the City Engineer.

**Fresno Metropolitan Flood Control District (FMFCD) Comments**
(Amjad M. Qader, FMFCD Representative – 559-456-3292)

103. The applicant shall refer to the attached FMFCD correspondence. If the list is not attached, please contact the FMFCD for the requirements.

**Fresno Irrigation District (FID) Comments**
(Jeremy Landrith, Department Representative – 559-233-7161 ext. 7407)

104. The applicant shall refer to the attached FID correspondence. If the list is not attached, please contact the FID for the list of requirements.

**County of Fresno Health Department Comments**
(Kevin Tsuda, County of Fresno Health Department Representative – 559-600-3271)

105. The applicant shall refer to the attached Fresno County Health Department correspondence. If the list is not attached, please contact the Health Department for the list of requirements.

**California Department of Transportation**
(Kaylie Schreihans, Caltrans Representative – 559-383-5944)

106. The applicant shall refer to the attached Caltrans correspondence. If the list is not attached, please contact the Caltrans for the list of requirements.

**County of Fresno Dept. of Public Works and Planning**
(David Randall, Department Representative – 559-600-4052)

107. The applicant shall refer to the attached County of Fresno correspondence. If the list is not attached, please contact the County of Fresno for the list of requirements.

**San Joaquin Valley Air Pollution Control District (SJVAPCD)**
(Ryan Grossman, District Representative – 559-230-6569)

108. The applicant shall refer to the attached SJVAPCD correspondence. If the list is not attached, please contact the SJVSPCD for the list of requirements.

**Clovis Unified School District**
(Andrew Nabors, CUSD Representative – 559-327-9264)

109. The applicant shall refer to the attached CUSD correspondence. If the list is not attached, please contact the CUSD for the list of requirements.

**Department of Fish and Wildlife**

(Kelley Nelson, CDFW Representative – 559-580-3194)

110. The applicant shall refer to the attached CDFW correspondence. If the list is not attached, please contact the DTSC for the list of requirements.

# RESOLUTION 24-__

## RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS APPROVING PLANNED DEVELOPMENT PERMIT 2024-001 FOR VESTING TENTATIVE TRACT MAP 6375 LOCATED EAST OF NORTH MINNEWAWA AVENUE BETWEEN EAST PERRIN AND EAST SHEPHERD AVENUES

**WHEREAS,** Lennar Homes of California, LLC ("Applicant"), 8080 N. Palm Avenue Suite 110, Fresno, CA 93711, submitted an application for Planned Development Permit ("PDP") 2024-001 ("PDP2024-001") to deviate from the R-1 Zone District development standards associated with Vesting Tentative Tract Map 6375 ("TM6375") for a 385-lot single-family subdivision ("Project") on approximately 58.9 acres of property located east of North Minnewawa Avenue between East Perrin and East Shepherd Avenues ("Property"); and

**WHEREAS,** PDP2024-001 is in keeping with the intent and purpose of Chapter 66 of Title 9 of the Clovis Municipal Code (Development Code); and

**WHEREAS,** the Planning Commission considered PDP2024-001 on November 21, 2024, at which time the Commission adopted a resolution recommending that the City Council approve said PDP; and

**WHEREAS,** the Planning Commission's recommendations were forwarded to the City Council for consideration; and

**WHEREAS,** a duly noticed hearing was held on December 16, 2024, at which time the City Council considered PDP2024-001; and

**WHEREAS,** the City published notice of the public hearing in the Fresno Business Journal on December 2, 2024, mailed public notices to property owners within 600 feet of the Property, ten (10) days prior to said City Council hearing, and otherwise posted notice of the Public Hearing according to applicable law; and

**WHEREAS,** the City Council has given careful consideration to this PDP on December 16, 2024, and considered the considered the California Environmental Quality Act ("CEQA") analysis outlined in the staff report and elsewhere in the Administrative Record which determines that PDP2024-001 meets the requirements pursuant to CEQA Guidelines and recommends that the City Council adopt of an environmental finding of a mitigated negative declaration and a mitigation monitoring and reporting program; and

**WHEREAS,** the City Council has reviewed and considered the entire Administrative Record relating to the Project, which is on file with the Department, and reviewed and considered those portions of the Administrative Record determined to be necessary to make an informed decision, including, but not necessarily limited to, the staff report, the written materials submitted with the request, and the verbal and written testimony and other evidence presented during the public hearing, and the conditions of approval attached as **Attachment A** to this Resolution, which are incorporated herein by this reference.

**NOW, THEREFORE, BASED UPON THE ENTIRE RECORD OF THE PROCEEDINGS, THE CITY COUNCIL RESOLVES AND FINDS AS FOLLOWS:**

1. The City Council hereby approves PDP2024-001, subject to the conditions of approval set forth in **Attachment A** of this Resolution.

2. The Project satisfies the required findings for approval of a planned development permit, as follows:

   a. The Project is allowed within the subject base zoning district;

   b. The Project is consistent with the purpose, intent, goals, policies, actions, and land use designations of the General Plan and any applicable specific plan;

   c. The Project is generally in compliance with all of the applicable provisions of this Development Code relating to both on- and off-site improvements that are necessary to accommodate flexibility in site planning and property development and to carry out the purpose, intent, and requirements of this chapter and the subject base zoning district, including prescribed development standards and applicable design guidelines;

   d. The Project ensures compatibility of property uses within the zoning district and general neighborhood of the proposed development;

   e. The Project would produce a comprehensive development of superior quality (e.g., appropriate variety of structure placement and orientation opportunities, appropriate mix of structure sizes, high quality architectural design, increased amounts of landscaping and open space, improved solutions to the design and placement of parking facilities, incorporation of a program of enhanced amenities, etc.) than which might otherwise occur from more traditional development applications;

   f. Proper standards and conditions have been imposed to ensure the protection of the public health, safety, and welfare;

   g. Proper on-site traffic circulation and control is designed into the development to ensure protection for fire suppression and police surveillance equal to or better than what would normally be created by compliance with the minimum setback and parcel width standards identified in Division 2 of this title (Zoning Districts, Allowable Land Uses, and Zone-Specific Standards);

   h. The subject parcel is adequate in terms of size, shape, topography, and circumstances to accommodate the proposed development; and

   i. The design, location, operating characteristics, and size of the proposed development would be compatible with the existing and future land

uses in the vicinity, in terms of aesthetic values, character, scale, and view protection.

3. The City Council has adopted the mitigated negative declaration mitigation and monitoring and reporting program for the TM6375 Project.

4. Without the conditions of approval (**Attachment A** of this resolution), the City Council could not make the findings necessary for approval of PDP2024-001.

5. The basis for the findings is detailed in the December 16, 2024, staff report, which is hereby incorporated by reference, the entire Administrative Record, as well as the evidence and comments presented during the public hearing.

* * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED:

_____ Mayor

_____ City Clerk

**Attachment A**
**Conditions of Approval – PDP2024-001**
**Planning Division Comments**
(Liz Salazar, Assistant Planner – 559-324-2305)

1. The Project must produce a comprehensive development of superior quality than which might otherwise occur from more traditional development on the site. This will be reviewed and approved through the civil plan review process and residential site plan review.

2. Three (3) pocket parks totaling approximately 56,400 square feet with associated amenities shall be constructed as the private amenity.

3. As a public amenity for the Project, the developer shall contribute the dollar amount totaling $95,450 to the City for utilization in existing or future open space and/or park improvements.

4. The developer shall construct a minimum six-foot high solid split face masonry wall along the limits of TM6375 adjacent to N. Minnewawa and Clovis Avenue.

5. The developer shall screen all ground mounted mechanical equipment from public view from abutting public streets and rights-of-way and open space uses. Screening material shall be constructed of materials consistent with the superior quality of the PDP and Heritage Grove Design Guidelines.

6. Lots with front facing elevations along N. Minnewawa Avenue shall adhere to front yard fencing standards. Fencing shall be limited to three (3) feet in height for material limiting 50% or more of visibility and seven (7) feet in height for material providing 50% or more of visibility. Fencing material shall be consistent with Heritage Grove Design Guidelines. Chain link is not permitted.

7. Landscape features and forms within amenity areas shall be consistent with Heritage Grove Design Guidelines. Details shall be provided in the construction plan.

8. No more than two (2) of the same unit type (floor layout and exterior materials package) shall be repeated side by side. When two (2) of the same units are repeated side by side, they shall be different colors. These identical provisions may be waived by the City Planner on a specific lot basis within the project when the size or configuration of a lot would otherwise prevent compliance with the above requirements of any other siting or setback/yard requirements established under this application. If such a waiver is requested, the developer and City Planner shall work together to ensure that any sitings of units not in compliance with the above requirements shall be of different materials and elevations in order to minimize any adverse visual impacts that may result.

9. Setbacks shall be measured to the exterior face of the framing of the structure. Exceptions to the setbacks are identified in § 9.24.100, of the Clovis Municipal Code.

10. Development standards for the lots of TM6375 shall be as follows:

| Standard | Housing Products | | |
|---|---|---|---|
| | **Wilde (188 units)** | **Treasures (90 units)** | **Core (107 units)** |
| Minimum Lot Size (Square Feet) | 2,112 | 4,230 | 4,230 |
| Minimum Parcel Width | 39’ | 45’ | 45’ |
| Minimum Corner Parcel Width | N/A | 50’ | 50’ |
| Minimum Reverse Parcel Width | N/A | 55’ | 55’ |
| Minimum Parcel Depth | 53’ | 94’ | 94’ |
| Maximum Lot Coverage | 62% | 52% | 45% |
| Maximum Height | 26’ 7” | 18’ 11” | 25’ 3” |
| Front (Garage side) Setback | 4’ | 20’ | 20’ |
| Front (Living side) Setback | 10’ | 12’ | 12’ |
| Interior Side Setback | 0’ non-patio side 7’ patio side | 5’ | 5’ |
| Street Side Setbacks | 3’ | 10’ | 10’ |
| Rear Setback | 10’ | 10’ | 20’ |
| Garages | 20’x20’ interior dimension (2-car) | 20’x20’ interior dimension (2-car) | 20’x20’ interior dimension (2-car) |

11. All lighting shall be screened from direct view from the public right-of-way and adjacent residential properties.

12. The developer shall utilize streetlights along local and private streets within the development area that are of the same design and luminosity as surrounding developments within Heritage Grove.

13. A residential site plan review is required to memorialize building plans and elevations for the different product types of TM6375. Specific color and materials of the models, walls, amenities, landscaping, and fencing will be evaluated through the civil plans.

# RESOLUTION 24-__

## RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS MAKING APPLICATION TO THE FRESNO LOCAL AGENCY FORMATION COMMISSION AND REQUESTING THE COMMISSION TO TAKE PROCEEDINGS FOR THE SHEPHERD-MINNEWAWA NORTHEAST REORGANIZATION

**WHEREAS,** the City of Clovis desires to initiate proceedings pursuant to the Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000, Division 3, commencing with Section 56000 of the California Government Code, for the reorganization; and

**WHEREAS**, the specific changes of organization requested are annexation to the City of Clovis and detachment from the Fresno County Fire Protection District; and

**WHEREAS,** the territory proposed to be reorganized is inhabited, and on this day contains 18 voters, according to information received from the County Election Officer; and

**WHEREAS,** a description of the boundaries of the territory is set forth in **Attachment A** attached hereto and by this reference incorporated herein; and

**WHEREAS,** the proposal complies with the terms and standards of the tax sharing agreement between the City of Clovis and the County of Fresno; and

**WHEREAS**, on December 16, 2024, the City Council adopted the California Environmental Quality Act ("CEQA") analysis adopting the mitigated negative declaration and mitigation monitoring and reporting program for the annexation and development project of the property, which is the subject of the Shepherd-Minnewawa Northeast Reorganization; and

**WHEREAS,** it is desired to provide that the proposed Shepherd-Minnewawa Northeast Reorganization be subject to the following terms and conditions:

1. The regular assessment roll shall be utilized.

2. Each new development will be required to demonstrate adequate water availability and, if necessary, will be required to drill and test a well, and to connect it to the city water system.

3. Each new development will be required to obtain sewage capacity from the trunk sewer specified by the City Engineer.

4. The provisions of Article II, Annexation by City, as agreed between the City of Clovis and the County of Fresno pursuant to the June 6, 2017, Memorandum of Understanding, as amended from time to time, regarding tax sharing shall apply.

5. The applicants shall reimburse the City for any expense associated with the transition agreement for fire services with the Fresno County Fire Protection District that would apply to this proposal.

6. A "Right-to-Farm" covenant shall be recorded for each tract map or made a condition of each tract map.

7. Pursuant to Government Code Section 56663, the City shall consent to the annexation and waive its rights to a hearing.

8. Prior to approval, recordation or filing of an annexation, tentative map, final map, parcel map, or site plan (Project), the property covered by the Project shall be included within or annexed to a Community Facilities District (CFD), established by the City for the provision of public facilities and services, for which proceedings have been consummated, and shall be subject to the special tax approved with the formation or annexation to the CFD.

   The applicant and the property owner acknowledge and agree that if the Project was not part of a CFD, the City might lack the financial resources to operate facilities and provide public services, such as police protection, fire protection, emergency medical services, parks and recreation services, street maintenance, and public transit. Absent the requirement for inclusion of the Project within a CFD, the City might not be able to make the finding that the Project is consistent with the General Plan and relevant specific plans, and might not be able to make the findings supporting approval of the Project as required by the Subdivision Map Act and the California Environmental Quality Act, and the City might be required to deny the application for the Project.

   The owner/developer shall notify all potential lot buyers prior to sale that this Project is a part of a Community Facilities District and shall inform potential buyers of the special tax amount. Said notification shall be in a manner approved by the City.

   This requirement may be waived in the discretion of the City Council if, at the time of the approval, recordation, or filing of the Project, the City Council has determined that it is not necessary that the Project be included in the CFD.

**WHEREAS,** the terms and conditions above are the sole responsibility of the City of Clovis to monitor and enforce. The Fresno Local Agency Formation Commission will not be required to enforce the aforesaid terms and conditions as a responsible agency; and

**WHEREAS,** the reason for this proposed reorganization is to provide municipal services, local controls, and logical growth to the unincorporated area of the County that is remote from County services and undergoing urban development; and

**WHEREAS,** this annexation proposal is consistent with the proposed City of Clovis' general plan land use diagram designations; and

**WHEREAS,** the City Council has reviewed and approved the master service plan for the subject change of organization; and

**NOW, THEREFORE, THE CITY COUNCIL RESOLVES AND FINDS AS FOLLOWS:**

1. The annexation of property within the boundaries set forth in **Attachment A** is in compliance with the Standards of Annexation as identified in the Memorandum of Understanding between the City of Clovis and the County of Fresno, which is commonly referred to as the Tax Sharing Agreement.

2. This Resolution of Application is hereby adopted and approved by the City Council of the City of Clovis, and the Fresno Local Agency Formation Commission is hereby requested to take proceedings for the reorganization of the territory as described in **Attachment A**, according to the terms and conditions stated above and in the manner provided by the Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000.

* * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED:

_____ _____

Mayor City Clerk

## Attachment A

## CITY OF CLOVIS ANNEXATION
## AREA TO BE ANNEXED INTO THE CITY OF CLOVIS GEOGRAPHIC DESCRIPTION

Being a portion of the West Half of Section 20 together with a portion of the East 30 feet of Section 19 and the South 40 feet of Section 17, Township 12 South, Range 21 East, Mount Diablo Base & Meridian, according to the Official United States Government Township Plat thereof, in the County of Fresno, State of California, described as follows:
**BEGINNING** at the Southeast Corner of said Section 19 and running along the South and West right-of-way line of Minnewawa Avenue according to the Grant Deed thereof recorded in Book 6706 at Page 288, Official Record Fresno County, the following 2 courses:

1. South 89°21'21" West, 30.00 feet along the South line of said Section 19 to the West right-of-way line of Minnewawa Avenue; thence
2. North 1°06'32" West, 5296.80 feet along the West right-of-way line of Minnewawa Avenue to the North line of said Section 19; thence

Along the West, North, and East right-of-way lines of Behymer Avenue according to the map thereof recorded in Book 2 of Record of Surveys at Page 46, Fresno County Records, the following 2 courses:

3. North 1°06'32" West, 20.00 feet to the North right-of-way line of Behymer Avenue; thence
4. North 89°22'30" East, 1584.19 feet along the North right-of-way line of Behymer Avenue; thence

Leaving the right-of-way of Behymer Avenue, parallel with and 20.00 feet North of the North line of said Northwest quarter, continuing along the Easterly lines of Parcel 1 as well as the Easterly lines of Parcel 2 of Parcel Map No. 2170 according to the map thereof recorded in Volume 13 of Parcel Maps at Page 35, Fresno County Records, also being the centerline of Enterprise Canal for the following 6 courses:

5. South 14°39'10" East, 679.67 feet along said Enterprise Canal; thence
6. South 26°57'27" East, 37.00 feet continuing along said Enterprise Canal; thence
7. South 48°08'27" East, 149.44 feet; thence
8. South 0°13'46" East, 294.28 feet; thence
9. South 24°09'58" East, 170.98 feet; thence
10. South 5°53'29" East, 99.75 feet; thence

Leaving the centerline of Enterprise Canal and running along the North line of Adjusted Parcel B of Lot Line Adjustment No. 21-06 as described in Grant Deed recorded on September 8, 2021 as Document No. 2021-0146955, Official Records Fresno County; along the East and South lines of said Adjusted Parcel B, being the following 15 courses:

11. North 89°22'23" East, 61.02 feet; thence
12. South 0°59'37" East, 72.67 feet to a tangent curve concave to the Northwest; thence

13. 101.97 feet along said curve, through a central angle of 26°33'24" having a radius of 220.00 feet; thence
14. South 25°33’46” West, 342.65 feet to a tangent curve concave to the Southeast; thence
15. 129.78 feet along said curve, through a central angle of 26°33'24" having a radius of 280.00 feet; thence
16. South 0°59’37” East, 492.40 feet; thence
17. South 5°41’23” East, 180.24 feet; thence
18. South 5°16’32” East, 241.23 feet; thence
19. South 17°21’08” East, 355.48 feet to a tangent curve concave to the Northeast; thence
20. 226.11 feet along said curve, through a central angle of 74°01'42" having a radius of 175.00 feet; thence
21. North 88°37’10” East, 159.93 feet; thence
22. North 83°58’08” East, 159.90 feet; thence
23. North 78°57’55” East, 272.20 feet to the East line of the Southwest Quarter of said Section 20; thence
24. South 0°56’40” East, 70.49 feet along said East line; thence
25. South 89°22’03” West, 1324.97 feet along said North line of the Southeast Quarter of the Southwest Quarter; thence

Along the East and South line of the West Half of the Southwest Quarter of Section 20 according to the map of Tract Map No. 6050 thereof recorded in Volume 90 of Plats at Page 37, Fresno County Records, the following 3 courses:

26. South 1°01’26” East, 1956.64 feet along the West line of the Southeast Quarter of the Southwest Quarter of said Section 20 to a point on the North line Shepherd Avenue right-of-way; thence
27. South 89°21’21” West, 1322.00 feet along the North right-of-way line for Shepherd Avenue to a point on the East line of the Southeast Quarter of said Section 19; thence
28. South 1°06’32” East, 30.00 feet along said East line to the **POINT OF BEGINNING**

CONTAINS 200.38 ACRES, MORE OR LESS.

# TRACT 6375

Residential Land Use Development Standards



## Wilde Lots 1 to 188

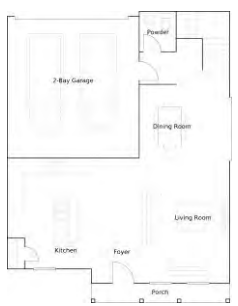
| Single Family Residential | Standard | Notes |
|---|---|---|
| **Designation** | | |
| Zone District | R-1 PRD | |
| GP Density Range | Meduim Density and very low density (8.39 DU/AC) | 1 unit per lot |
| Dwelling Units | 188 | |
| **BUILDING INTENSITY** | | |
| Minimum Lot Area | 2,112 | |
| Minimum Lot Width | 39' | |
| Minimum Lot Depth | 53' | |
| Maximum Coverage | 62% | |
| Maximum Height | 26'7" | |
| Curved Cul-de-Sac or Corner Lot | N/A | |
| **Permitted Density** | | |
| Residential Density | 1 Dwelling | |
| **Set Backs (Minimum)** | | |
| Rear Entry: | 10' from property line | |
| Side: | 0' ft. Non Patio/7ft. Patio Side | |
| Front: | 4ft. Min from property line to garage | |
| Garages/Street/Parking | 2-car | 20x20 min |
| Street (Interior) | 24 ft. min | curb-to curb |
| Parking | 258 Spaces | |
| **Accessory Uses** | | |
| Walls/Fences | 4' min.-7' | |
| Pools and Spas | 3' min | |
| Equiptment | N/A | |
| Covered Structures | 12' High max. | |
| Building Exterior | Architectural treatment applied to all elevations of a building. At minimum, all doors, windows and other wall openings shall be trimmed consistant with architectural style. | |
| Amenities | North Park 0.61 Acres | Parks will include concrete walkways, canopy, park benches, picnic tables, trash receptical, and BBQ grill. |
| | South Park 0.55 Acres | |





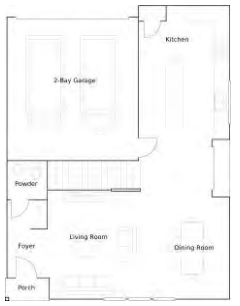
Bronte 3201





Kipling 3202





Hemingway 3203

See Plot Plan on Next Page

Plot plan reviewed through RSPR

1958

**Attachment 6**

# TRACT 6375

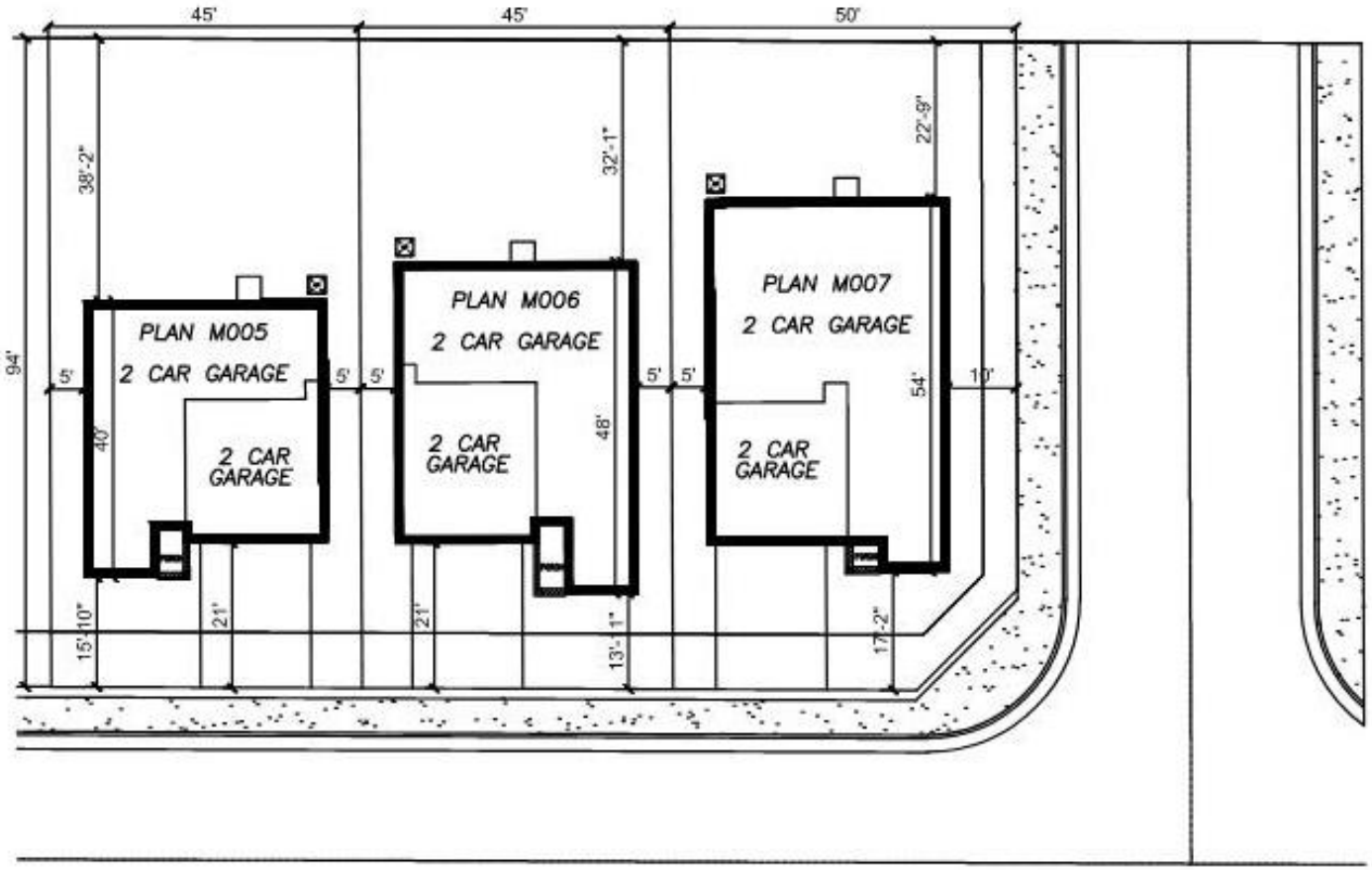
Residential Land Use Development Standards

Single Family Residential Standard Notes



## Core Series Lots 189 to **217** **308** to 385

| Designation | | |
|---|---|---|
| Zone District | R-1 PRD | |
| GP Density Range | Medium Density and Very Low Density (8.39DU/AC) | |
| Dwelling Units | 107 | |
| Building Intensity | | |
| Minimum Lot Area | 4,230 | |
| Minimum Lot Width | 45 | |
| Minimum Lot Depth | 94 | |
| Maximum Coverage | 45% | |
| Maximum Height | 25'3" | |
| Curved cul-de-sac or corner lot | N/A | |
| Permitted Density | | |
| Residential Density | 1 Dwelling | |
| Set Backs (Minimum) | | |
| Front: | 13'11" | |
| Side: | 5' | |
| Rear: | 22'9" | |
| Garage/Street/Parking | 2 Car | 20'x20' min |
| Street (interior) | 36ft Min | Curb to Curb |
| Parking | Per City Standard/Driveway | |
| Accessory Uses | | |
| Walls/Fences | 4' min-7' | |
| Pools and Spas | 3' min | |
| Equipment | N/A | |
| Building Exterior | Architectural treatment applied to all elevations of a building. At minimum all doors, windows, and other wall openings shall be trimmed consistant with architectural style. | |
| Amenities | North Park 0.61 Acres<br>South Park 0.55 Acres | Parks will include concrete walkways, canopy, Park Benches, Picnic tables, trash receptical, and BBQ grill |



# TRACT 6375

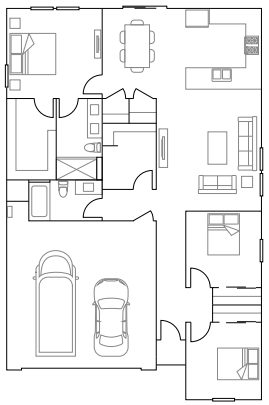
Residential Land Use Development Standards

Single Family Residential | Standard | Notes

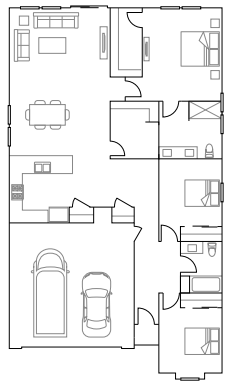


## Treasures lots **218** to **307**

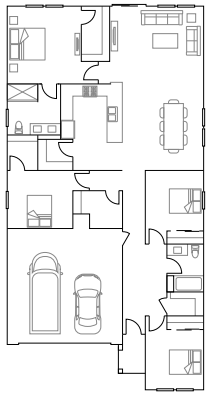
| | | |
|---|---|---|
| **Designation** | | |
| Zone District | R-1 PRD | |
| GP Density Range | Meduim Density and very low density (8.39 DU/AC) | |
| Dwelling Units | 90 | |
| **BUILDING INTENSITY** | | |
| Minimum Lot Area | 4,230 | |
| Minimum Lot Width | 45 | |
| Minimum Lot Depth | 94 | |
| Maximum Coverage | 52% | |
| Maximum Height | 18' 11" | |
| Curved Cul-de-Sac or Corner Lot | N/A | |
| **Permitted Density** | | |
| Residential Density | 1 Dwelling | |
| **Set Backs (Minimum)** | | |
| Front: | 12ft. from property line | |
| Side: | 5ft. min from property line | |
| Rear: | 14 ft. min from property line | |
| Garages/Street/Parking | 2-car | 20'x20' min |
| Street (Interior) | 36 ft. min | curb-to curb |
| Parking | Per city standard/Driveway | |
| **Accessory Uses** | | |
| Walls/Fences | 4' min.-7' | |
| Pools and Spas | 3' min | |
| Equiptment | N/A | |
| Building Exterior | Architectural treatment applied to all elevations of a building. At minimum, all doors, windows and other wall openings shall be trimmed consistant with architectural style. | |
| Amenities | North Park 0.61 Acres | Parks will include concrete walkways, canopy, park benches, picnic tables, trash receptical, and BBQ grill. |
| | South Park 0.55 Acres | |



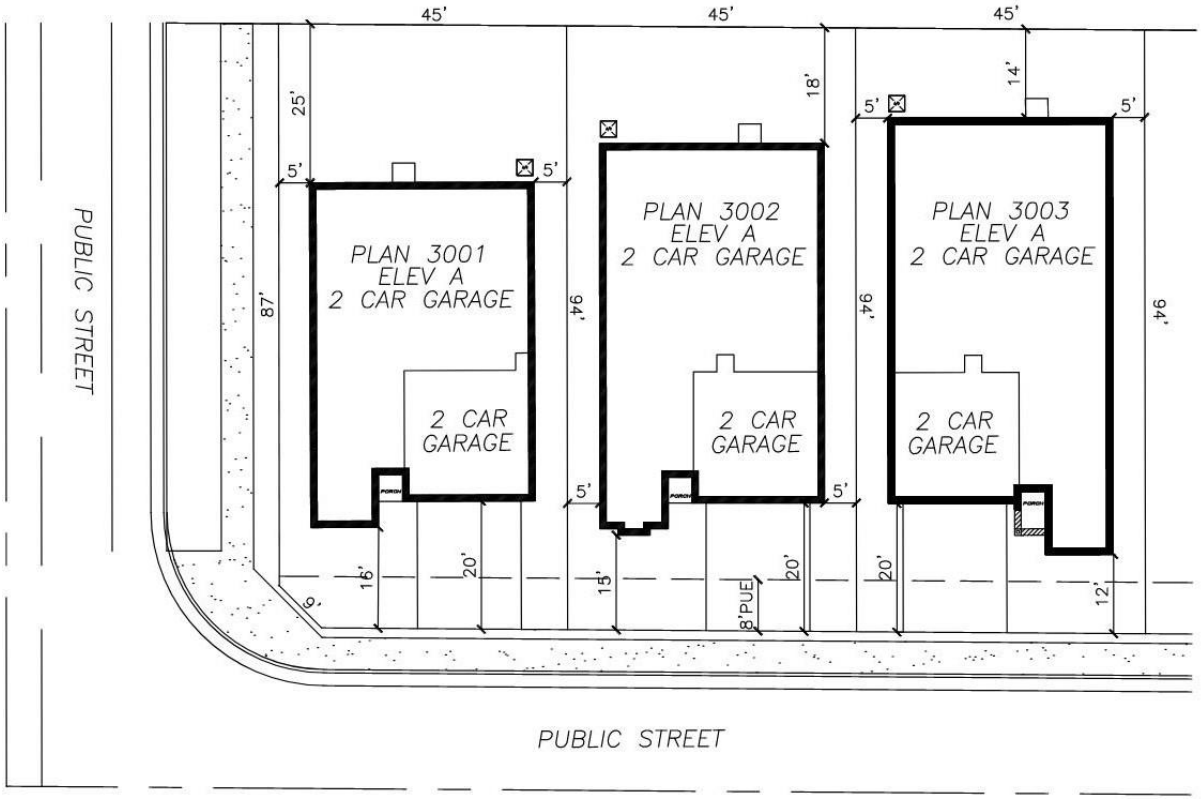
3001 Charm



3002 Jewel



3003 Keepsake






# TR 6375 HERITAGE GROVE

## CONCEPTUAL PLAN

## LENNAR HOMES

EXHIBIT L-1 Context Plan

10-25-24

BROUSSARD ASSOCIATES
landscape architects

NORTH

SCALE 1"=80'

**Attachment 7**

# Tract 6375
# The Wilde Series
# at Heritage Grove

A charming community of single-family homes suitable for every lifestyle.







**Attachment 8**

# Bronte - 3201

The Wilde Series at Heritage Grove

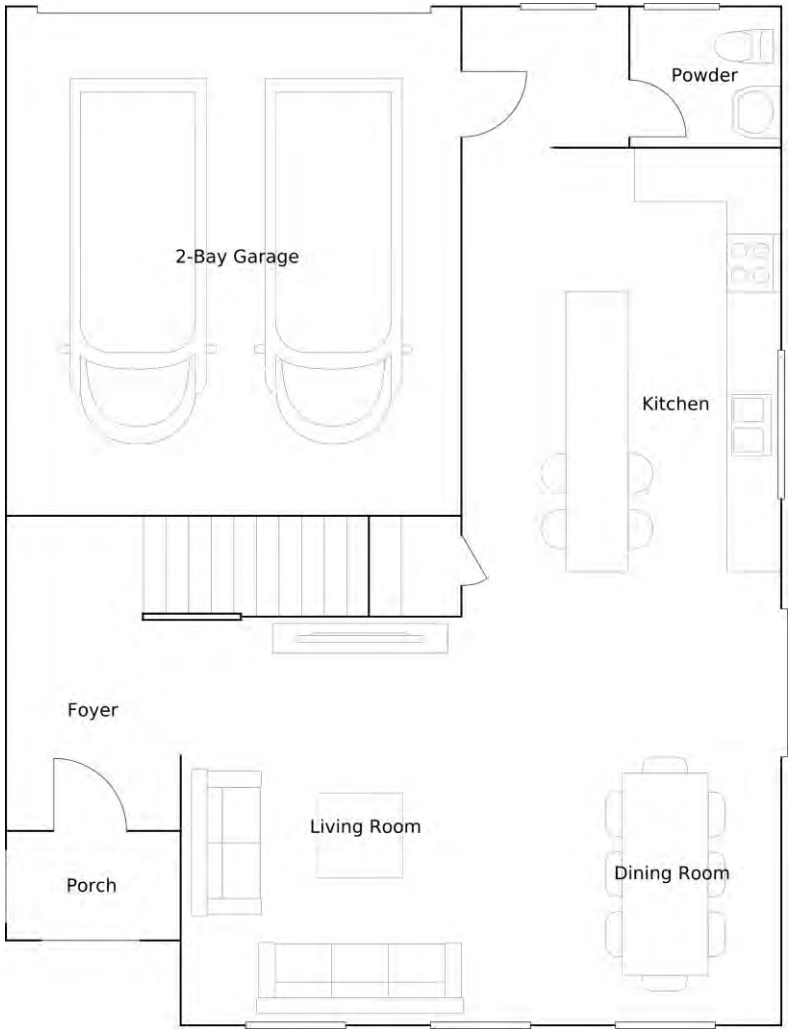
Approx. 1893 sq. ft.

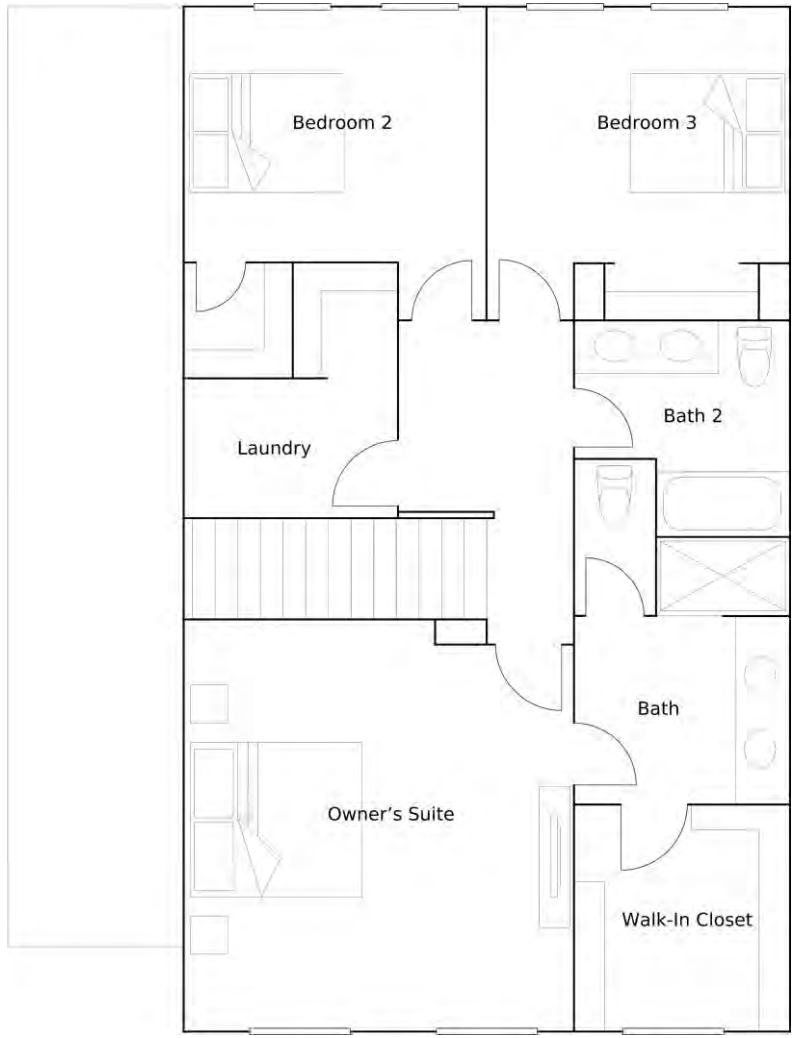
Two Story

3 Bedrooms

2.5 Bathrooms

2-Bay Garage



# Bronte





**Bronte A**



**Bronte B**

# Kipling - 3202

The Wilde Series at Heritage Grove

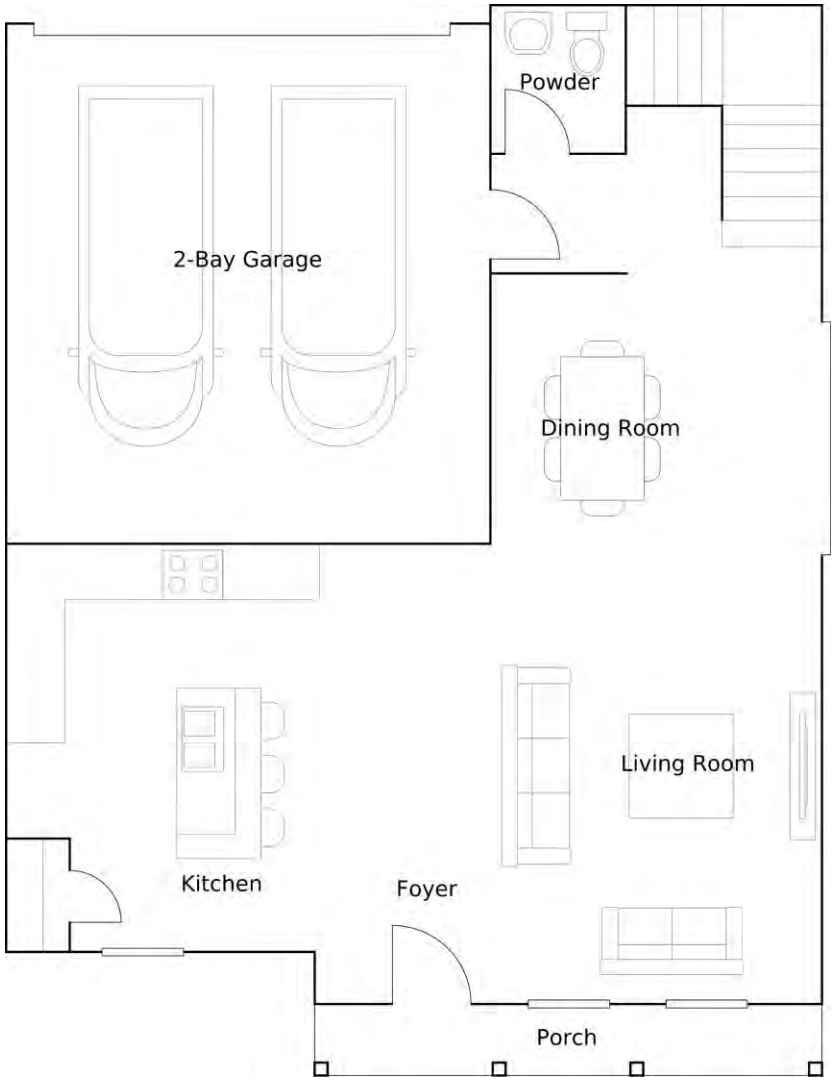
Approx. 2019 sq. ft.

Two Story

3 Bedrooms

2.5 Bathrooms

2-Bay Garage






# Kipling





**Kipling A**



**Kipling B**

# Hemingway 3203

The Wilde Series at Heritage Grove

Approx. 2169 sq. ft.

Tow Story

4 Bedrooms

2.5 Bathrooms

2-Bay Garage





**Hemingway A**



**Hemingway B**

# Tract 6375
# The Core Series
# at Heritage Grove

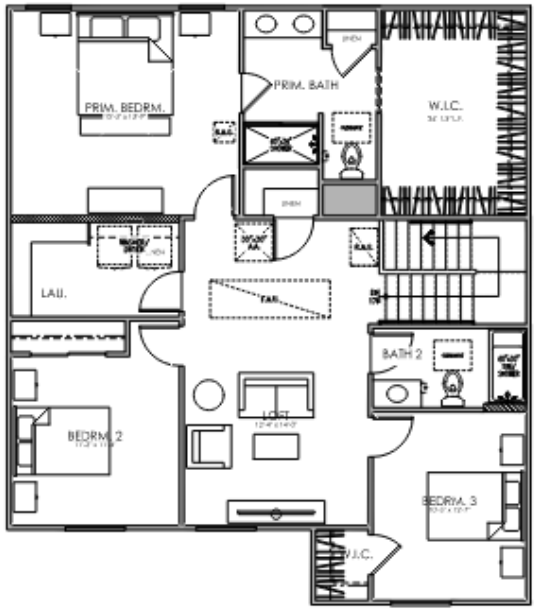
A charming community of single-family homes suitable for every lifestyle.

# Core

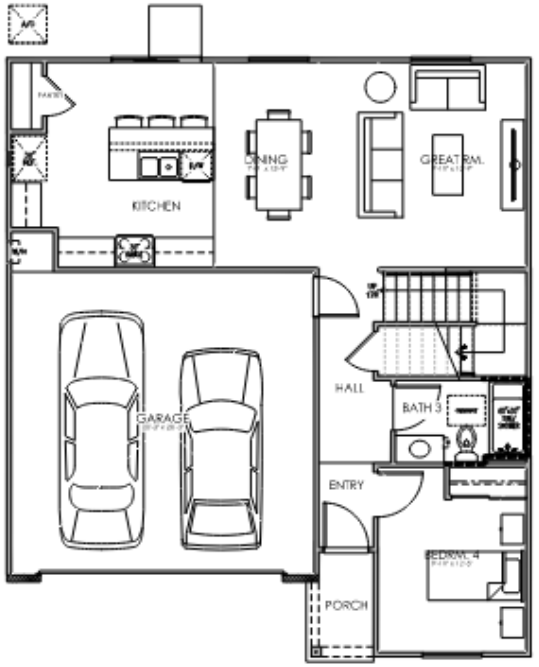
## JAMES-M005

The Core Series at Heritage Grove

- Approx. sq. ft. 2066
- Two Story
- 4 Bedrooms
- 3 Bathrooms
- 2-Bay Garage




Second Floor




First Floor




A - STYLE




B - STYLE




C - STYLE

M005 JAMES (2066)

FRONT ELEVATIONS

CENTRAL VALLEY 35'

CALIFORNIA

09/18/24

LENNAR

0 2 4 8 12

Kevin L. Crook Architect Inc

PLANNING + ARCHITECTURE

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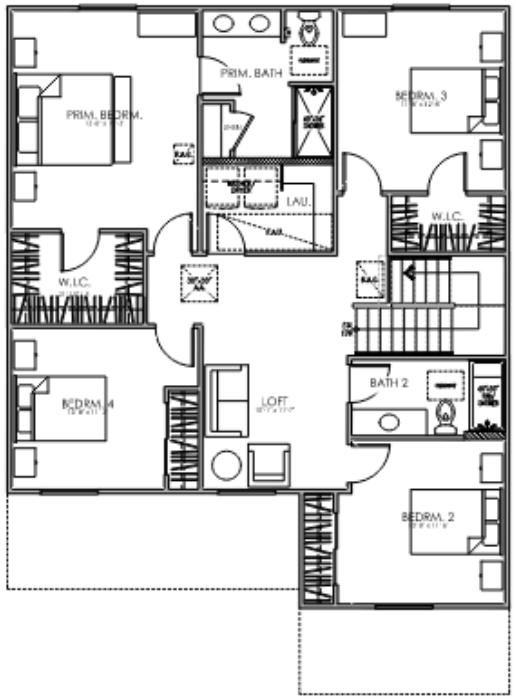
klcarch.com JOB #: 24018

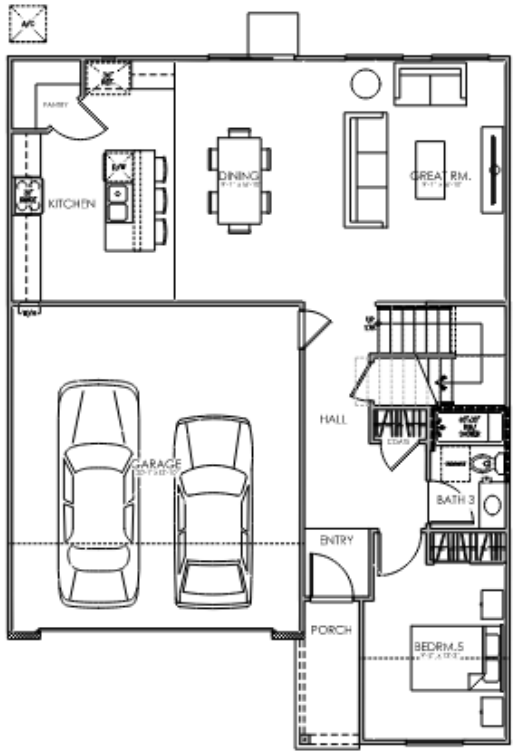
# MUIR - M006

The Core Series at Heritage Grove

- Approx. sq. ft. 2,261
- Two Story
- 5 Bedrooms
- 3 Bathrooms
- 2-Bay Garage




Second Floor




First Floor




A - STYLE




B - STYLE




C - STYLE

M006 MUIR (2261)

FRONT ELEVATIONS

CENTRAL VALLEY 35'

CALIFORNIA

09/18/24

LENNAR

0 2 4 8 12

Kevin L. Crook Architect Inc

PLANNING + ARCHITECTURE

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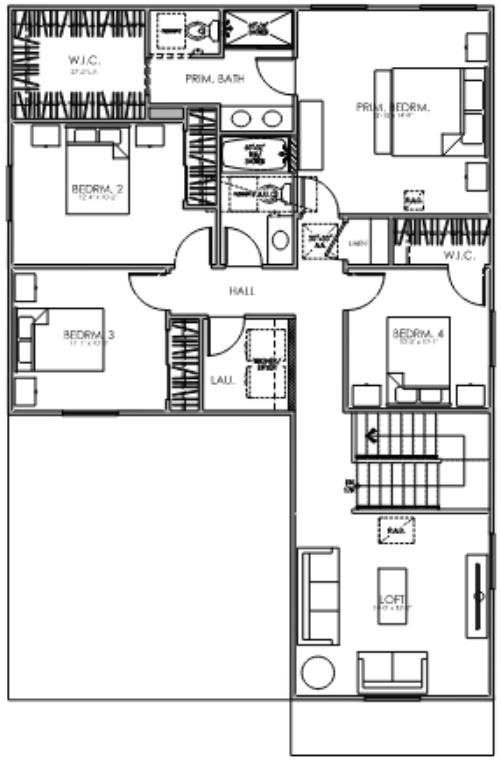
kcarch.com JOB #: 24018

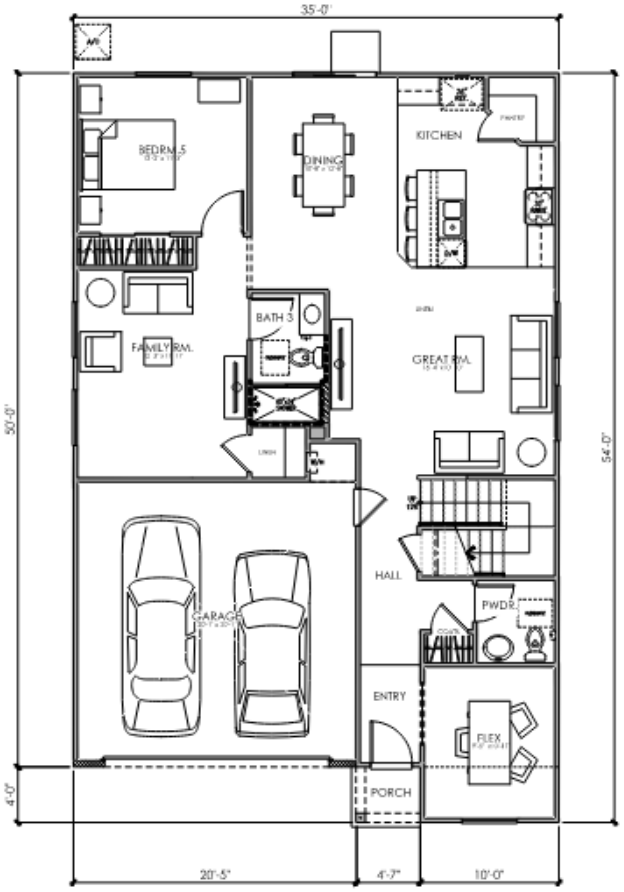
# POPPY – M007

The Valencia Series at Heritage Grove

- Approx. sq. ft. 2,623
- Two Story
- 5 Bedrooms
- 3.5 Bathrooms
- 2-Bay Garage




Second Floor




First Floor




A - STYLE




B - STYLE




C - STYLE

# M007 POPPY (2623)

## FRONT ELEVATIONS

## CENTRAL VALLEY 35'

CALIFORNIA

09/18/24

LENNAR

0 2 4 8 12

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JOB #: 24018

# Treasures

# at Heritage Grove

A charming community of single-family homes suitable for every lifestyle.









1976

# Charm

# 3001

Treasures at Heritage Grove

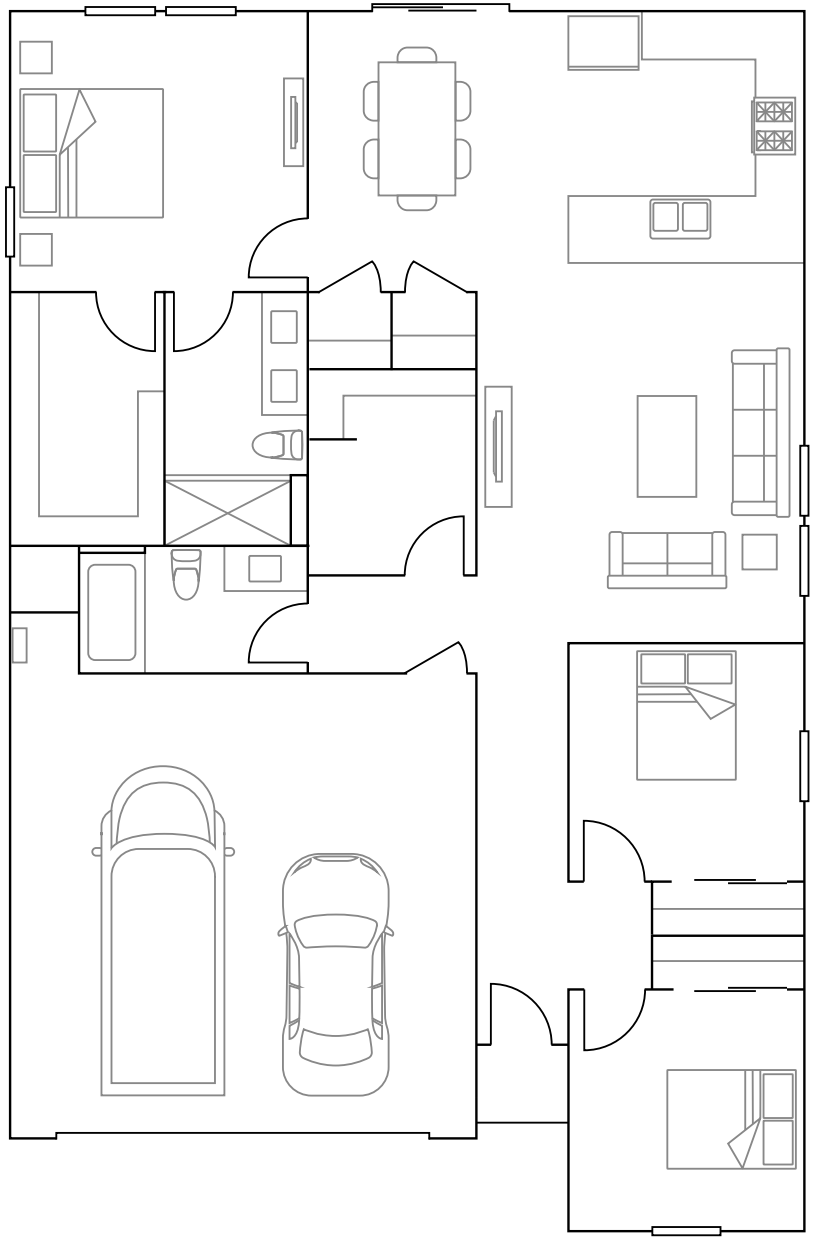
Approx. 1,341 sq. ft.

Single-story

3 Bedrooms

2 Bathrooms

2-Bay Garage



1977

# Charm





**Charm A**



**Charm B**



**Charm C**

# Jewel

# 3002

Treasures at Heritage Grove

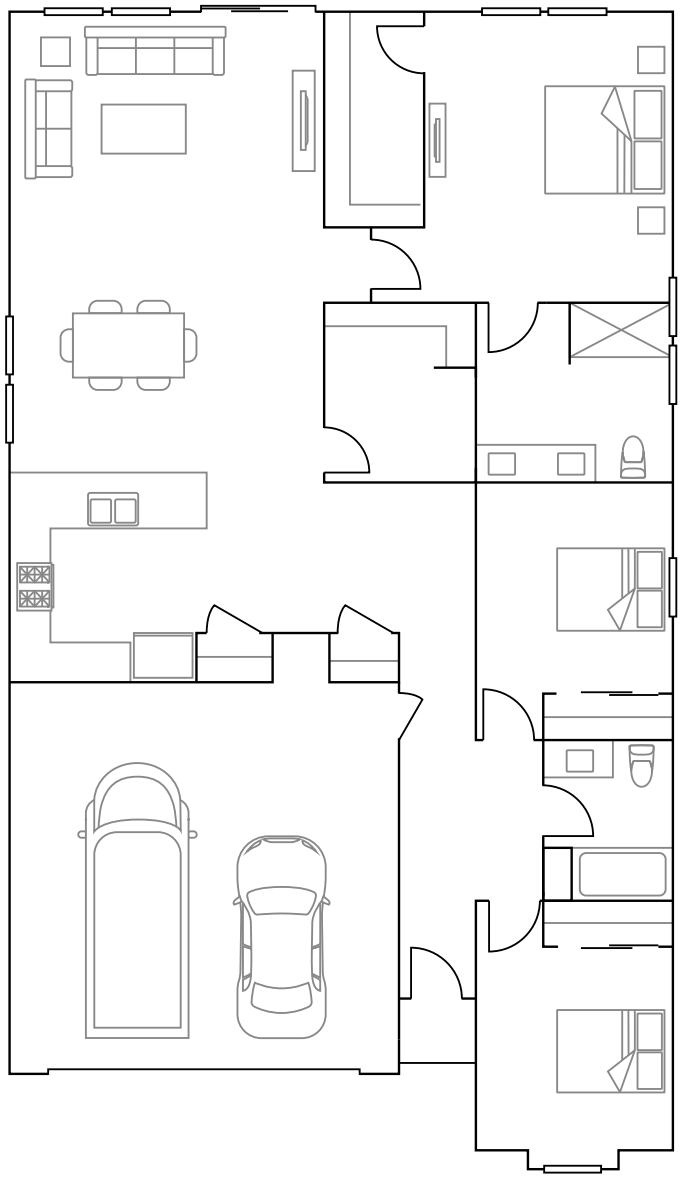
Approx. 1,564 sq. ft.

Single-story

3 Bedrooms

2 Bathrooms

2-Bay Garage



1979

# Jewel





Jewel A



Jewel B



Jewel C

# Keepsake

# 3003

Treasures at Heritage Grove

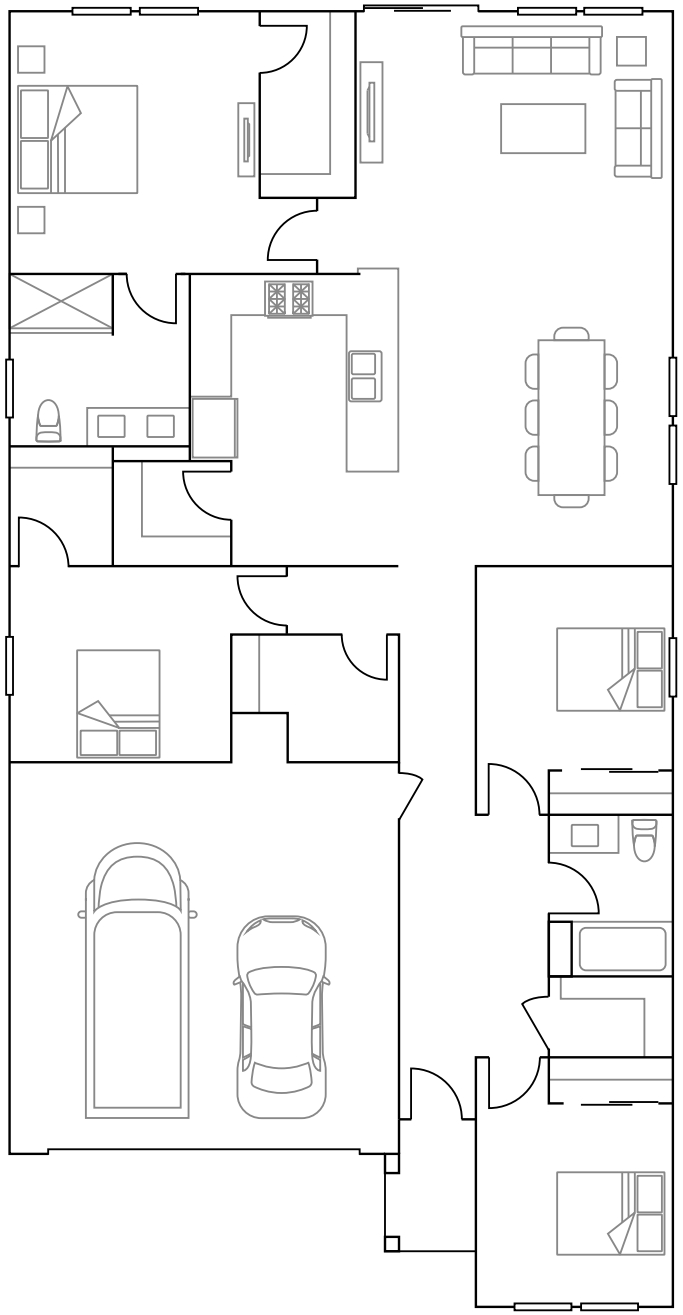
Approx. 1,755 sq. ft.

Single-story

4 Bedrooms

2 Bathrooms

2-Bay Garage



1981

# Keepsake





**Keepsake A**



**Keepsake B**



**Keepsake C**

# Lennar Homes
## TM6375
Initial Study and Mitigated Negative Declaration

**October 2024**

**PREPARED BY:**

Liz Salazar
Assistant Planner
Planning & Development Services
(559) 324-2305
lizs@clovisca.gov

CITY of CLOVIS
PLANNING & DEVELOPMENT
1033 FIFTH STREET • CLOVIS, CA 93612

## INITIAL STUDY

This Initial Study was prepared pursuant to the California Environmental Quality Act (CEQA) Public Resources Code Sections 21000 *et seq*., CEQA Guidelines Title 14, Section 15000 et seq. of the California Code of Regulations.

| | |
|---|---|
| **PROJECT TITLE:** | Lennar Homes<br>(TM6375) |
| **LEAD AGENCY NAME AND ADDRESS:** | City of Clovis<br>Planning & Development Services<br>1033 Fifth Street<br>Clovis, CA 93612 |
| **CONTACT PERSON AND PHONE NUMBER:** | Liz Salazar, Assistant Planer<br>(559) 324-2305<br>lizs@clovisca.gov |
| **PROJECT LOCATION:** | South of East Behymer Avenue, between North Minnewawa Avenue and the Enterprise Canal and north of East Shepherd Avenue<br>Clovis, CA |
| **PROJECT SPONSOR'S NAME AND ADDRESS:** | Jeff Callaway, Project Manger<br>Lennar Homes of California<br>8080 North Palm Avenue, Suite 110<br>Clovis, CA 93711 |
| **LAND USE DESIGNATION:** | See page 7 of this Initial Study |
| **ZONING DESIGNATION:** | See page 7 of this Initial Study |
| **SURROUNDING CONDITIONS AND LAND USES:** | See page 6 of this Initial Study |
| **PROJECT DESCRIPTION:** | See page 7 of this Initial Study |
| **REQUIRED APPROVALS:** | See page 9 of this Initial Study |
| **HAVE CALIFORNIA NATIVE AMERICAN TRIBES REQUESTED CONSULTATION? IF SO, HAS CONSULTATION BEGUN?** | Yes, consultation meeting held September 30, 2024, see discussion in H5. |

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## A. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, as indicated by the checklist and corresponding discussion in this Initial Study.

| | | |
|---|---|---|
| ☐ Aesthetics | ☒ Agriculture & Forestry Resources | ☐ Air Quality |
| ☒ Biological Resources | ☒ Cultural Resources | ☐ Energy |
| ☒ Geology & Soils | ☐ Greenhouse Gas Emissions | ☐ Hazards & Hazardous Materials |
| ☐ Hydrology & Water Quality | ☐ Land Use/Planning | ☐ Mineral Resources |
| ☒ Noise | ☐ Population/Housing | ☐ Public Services |
| ☐ Recreation | ☒ Transportation | ☒ Tribal Cultural Resources |
| ☐ Utilities & Service Systems | ☐ Wildfire | ☐ Mandatory Findings of Significance |

**Determination**

On the basis of this initial evaluation:

☐ I find that the proposed Project COULD NOT have a significant effect on the environment and a NEGATIVE DECLARATION will be prepared.

☒ I find that, although the proposed Project could have a significant effect on the environment, three will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponents. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed Project MAY have a significant effect on the environmental, and an ENVIRONMENTAL IMPACT REPORT (EIR) will be prepared.

☐ I find that the proposed Project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environmental, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed Project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately analyzed in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed Project, nothing further is required.

Prepared By:



Liz Salazar, Assistant Planner — Date
City of Clovis Planning & Development Services

Approved By:



2024.10.17
15:44:05-07'00'

Renee Mathis, Director — Date
City of Clovis Planning & Development Services

## B. PROJECT OVERVIEW

The Project consists of the annexation (Reorganization (RO) 310 and Rezone (R) 2024-005) of ±201 acres by the City of Clovis (City) and the development of 385 residential lots (Vesting Tentative Tract Map 6375, Planned Development Permit 2024-001) and associated site improvements (i.e., landscaping, parking, sidewalks, and utilities infrastructure) on a ±58.9-acre Project site herein referred to throughout the document as "proposed Project" and/or "Project". Approximately 40 acres of the Project site will be included in the current annexation boundary and the remaining ±20 acres were included in a separate annexation project that was previously approved. A remainder of the Project site Assessor's Parcel Number (APN) 556-050-35S is planned for a future park and it not included as part of the development site. A separate proposed single-family residential project on ±15 acres is included within the annexation boundary; however, is not a part of this Project. The remaining ±146 acres located within the annexation boundary surrounding the Project site do not propose development at this time. The annexation boundary land use designations are proposed as consistent with the 2014 General Plan Land Use designations. Any future development occurring within the annexation area would require a separate project-specific analysis.

## C. PROJECT LOCATION

As shown in Figure 1 below, the annexation boundary is located south of East Behymer Avenue, between North Minnewawa Avenue and the Enterprise Canal and north of East Shepherd Avenue totaling ±201 acres. The Project boundary of the 385-lot single-family planned residential development is located east of North Minnewawa Avenue between East Behymer and East Shepherd Avenues within APN(s) 556-030-10S, 12S, 556-050-01, 35S.

The Project site is located within the City's Sphere of Influence (SOI) and within the Northwest Urban Center area identified in the 2014 Clovis General Plan, now referred to as Heritage Grove. The Heritage Grove area is planned and designated for urban development and is a key component to carrying forward City growth. As such, the Heritage Grove area was evaluated at the programmatic level in the City's General Plan Environmental Impact Report (EIR). This document is intended to evaluate the specific elements of the proposed Project.

## D. EXISTING SETTING

This section describes the existing conditions, surrounding conditions, as well as the 2014 General Plan land use and zoning designations.

### 1. EXISTING CONDITIONS

As shown in Figure 2 below, the existing site consists of active almond orchards, disked fields, and several previously occupied residential sites from which the structures and most of the trees were removed at some point in the past. The site is generally flat and includes internal dirt roads. The existing site does not include any pedestrian or other vehicle circulation infrastructure.

### 2. SURROUNDING CONDITIONS

As referenced in Table 1 below, the Project site is partially surrounded by existing development consisting of single-family residential uses at varying densities to the east. To the north and south of the Project site are existing rural residential homes and to the west is agriculture.

**Table 1: Surrounding Land Uses of Project Site**

| | Land Use Designation* | Existing Land Use |
|---|---|---|
| **North** | Medium and Medium High Density Residential | Rural Residential & Agricultural |
| **East** | Medium Density Residential and General Commercial | Single-Family Residential |
| **South** | Mixed Use Village and Medium Density Residential | Rural Residential & Single-Family Residential |

| | | |
|---|---|---|
| **West** | Medium Density Residential | Agricultural |
| **Notes:** *Medium Density Residential (4.1-7.0 Dwelling Units/Acre (DU/AC), Medium-High Density Residential (7.1-20.0 DU/AC) | | |

## 3. LAND USE DESIGNATION

As shown on Figure 3, the Project site has the General Plan Land Use designations of Medium Density Residential and Park. The residential land use designation allows for a density range of 4.1 to 7.0 DU/AC. According to the 2014 Clovis General Plan, the Medium Density Residential designation is intended for detached and attached single family homes, patio homes, or zero lot lines. The area with the Park land use designation will be a remainder of the Project and is planned to be developed in the future as a park.

## 4. ZONING DESIGNATION

The Project site is currently within the County of Fresno jurisdiction and zoned AE20 (Exclusive Agricultural). However, the Project site is proposed to be prezoned to the R-1-PRD (Single-Family Planned Residential Development) Zone District. According to Section 9.10.010(B)(5) of the Clovis Municipal Code (CMC), the R-1-PRD Zone District identifies areas appropriate for single-family small lot uses, including attached and detached single-family structures on small lots.

## E. PROJECT DESCRIPTION

This section describes the components of the proposed Project in more detail, including site preparation, proposed structures, and on- and off-site improvements.

## 1. PROJECT CONSTRUCTION

The Project is anticipated to begin construction in April 2025, with full buildout by April 2029. However, first occupancy is assumed to occur by June 2027. This schedule is an estimation only and is contingent upon entitlements, and the market, among other factors.

## 2. SITE PREPARATION

Site preparation would include removal of exisitng agricultural fields and typical grading activities to ensure a level surface. Part of the preparation would include removal of vegetation, such as grasses, shrubs, and weeds. Other site preparation activities would include excavation for the installation of utility infrastructure, for coneyance of water, sewer, stormwater, and irrigation.

## 3. PROJECT COMPONENTS

This section describes the overall components of the Project, such as the proposed buildings, landscaping, vehicle and pedestrian circulation, and utilities.

### DEMOLITION

As described in existing conditions the former residential structures have been removed; therefore, no demolition of structures is required. The site will require removal of existing almond orchards.

### SITE LAYOUT AND CIRCULATION

As shown in Figure 5, the Project proposes 385 individual single-family residential lots ranging in sizes from approximately 2,112 square-feet to 17,087 square-feet, with an average lot size of approximately 3,698 square-feet under Vesting Tentative Tract Map 6375 (TM6375). The Project also proposes two pocket parks. The northern pocket park is approximately 0.57 acres and the southern pocket part is approximately 0.50 acres.

The Project also includes a network of public roadways throughout the neighborhood, which includes ingress/egress off of North Minnewawa Avenue to the west and Clovis Avenue to the east. According to the

Circulation Element of the 2014 Clovis General Plan,[1] the roadways bordering the Project along its western and eastern frontages are designated as arterials.

**PLANNED RESIDENTIAL DEVELOPMENT**

The Project site proposes to change from the County of Fresno AE20 (Exclusive Agricultural) Zone District to the R-1-PRD (Single-Family Planned Residential Development) Zone District. Approximately 20 acres of the Project site are included in a separate annexation (RO310) and prezoning (R2024-005). Chapter 9.66, Planned Development Permits, of the CMC provides a method whereby land may be designed and developed taking advantage of modern site planning techniques resulting in a more efficient use of land and better living environment than otherwise possible through strict application of the development standards. In general, this section of the CMC provides a mechanism to afford some relief to typical development standards, subject to an approved prezone to the R-1-PRD Zone District.

As part of the requirements for consideration of approval of a Planned Development Permit, the applicant has provided a draft of the proposed development standards, such as height limit, lot coverage, front, rear, and side setbacks that would apply to the proposed TM6375. These development standards are provided as Figure 6.

**PARKING**

Each single-family home would have a two-car garage. The CMC requires that residential planned unit developments provide a minimum of two (2) covered spaces plus one (1) covered or uncovered guest space for each dwelling unit.[2] Each garage would be required to have an interior dimension of 20 feet by 20 feet.

**PROJECT DESIGN**

Conceptual elevation designs of the homes are shown in Figure 7; however, it is important to note that at this stage of the process, these designs are conceptual only. The overall footprint, height limit, and placement of the structures, described above, would generally remain the same, however, the color palette and design details are subject to change throughout the Residential Site Plan Review Process (RSPR), which typically occurs later on in the entitlement process.

**LANDSCAPE**

The Project would include landscape throughout the site. Landscaped areas would generally be located along the perimeter of the site where a variety of ornamental shrubs, plants, and trees would be planted, as well as landscape in areas in the perceived front yard area of each home. Landscape plans are typically provided at a later date at which time the proposed landscape would be reviewed for compliance with the City's water efficient landscape regulations and guidelines.

**UTILITIES**

Utilities for the site would consist of water, sewer, electric, cable, gas, and stormwater infrastructure. Trenching and digging activities would be required for the installation of necessary pipelines typical of residential development. All utility plans would be required to be reviewed and approved by the appropriate agency, and/or department to ensure that installation occurs to pertinent codes and regulations. Other infrastructure would include new fire hydrants as required by the City of Clovis Fire Department.

Utilities are provided by and managed by a combination of agencies, including the Fresno Irrigation District (FID) which provides the City's water supply, Fresno Metropolitan Flood Control District (FMFCD) which has responsibility for storm water management, and the City's Public Utilities Department which provides for solid

1 2014 Clovis General Plan, Circulation Element, Figure C-1, Circulation Diagram.

2 City of Clovis Municipal Code, Chapter, 9.32, Parking and Loading, Section 9.32.040, Number of Parking Spaces Requires, Table 3-12, Parking Requirements by Land Use.

waste collection, and sewer collection services. Pacific Gas & Electric (PG&E) provides electricity and natural gas within the City of Clovis.

## F. REQUIRED PROJECT APPROVALS

The City of Clovis requires the following review, permits, and/or approvals for the proposed Project; however, other approvals not listed below may be required as identified throughout the entitlement process:

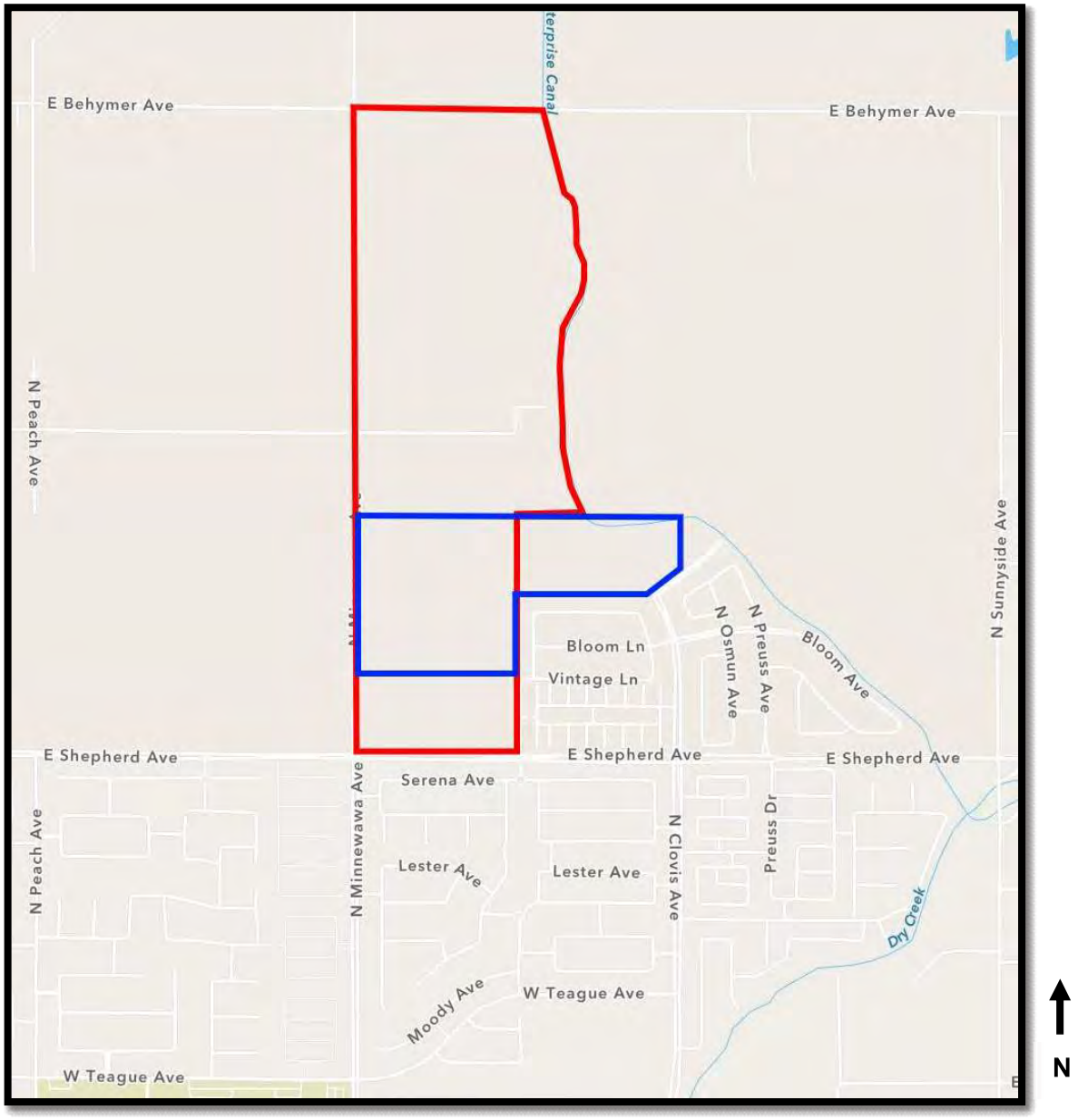
- Annexation
- Rezone
- Vesting Tentative Tract Map
- Planned Development Permit
- Residential Site Plan Review
- Grading Permit(s)
- Building Permit(s)

## G. TECHNICAL STUDIES

The analysis of the Project throughout this Initial Study relied in part on the technical studies listed below prepared for the Project, as well as other sources, including, but not limited to, the 2014 Clovis General Plan EIR, departmental staff, California Department of Conservation, and the California Department of Toxic Control Substances.

- **Appendix A:** Air Quality and Greenhouse Gas Impact Assessment dated January 2024
- **Appendix B:** Biological Evaluation Report dated August 2023, revised October 2024
- **Appendix C:** Cultural Resource Study dated November 2023
- **Appendix D:** Acoustical Analysis dated March 2024
- **Appendix E:** Transportation Impact Analysis dated December 2023

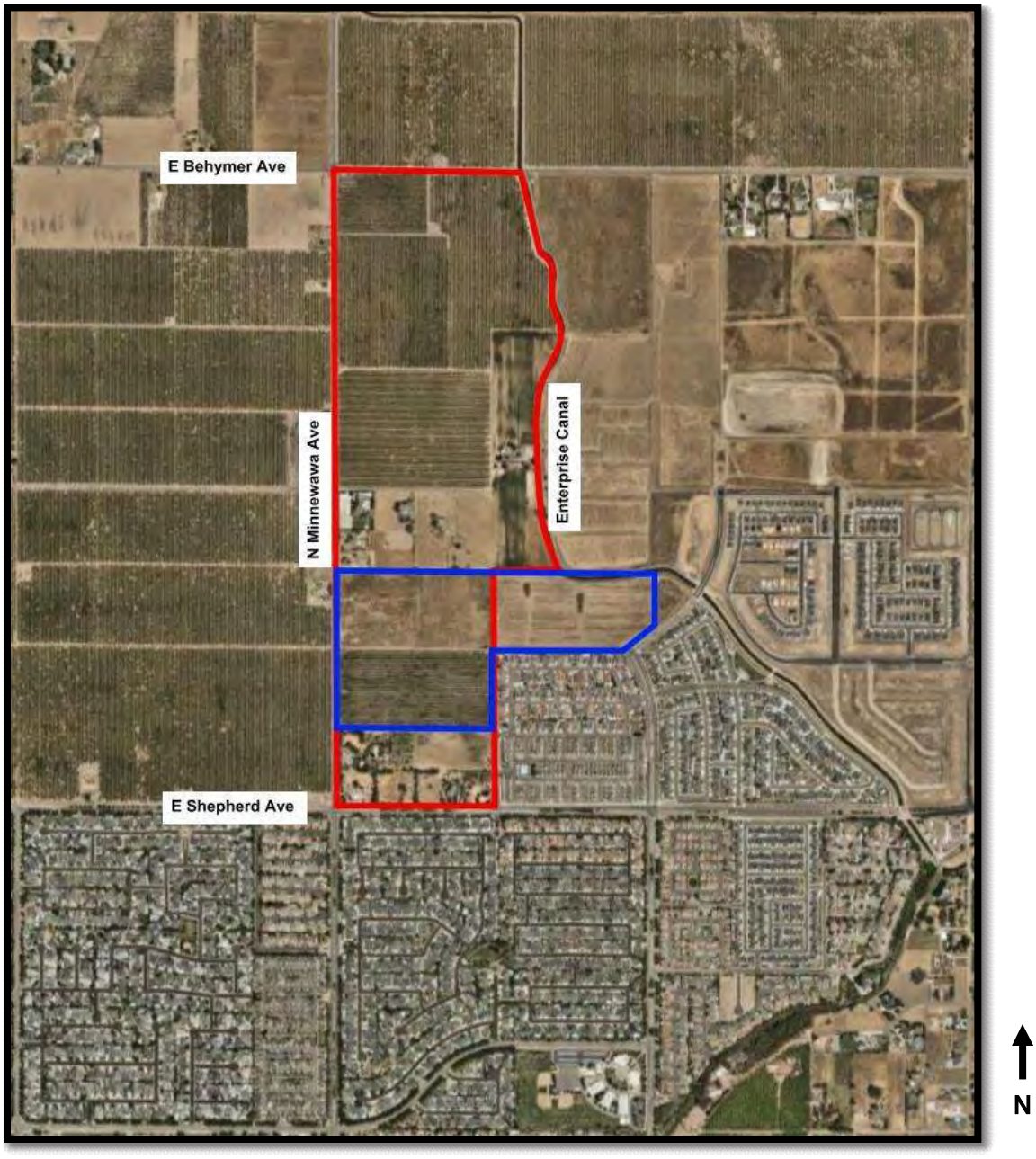
**Figure 1: Project Location**




= Annexation Boundary

= Project Site TM6375

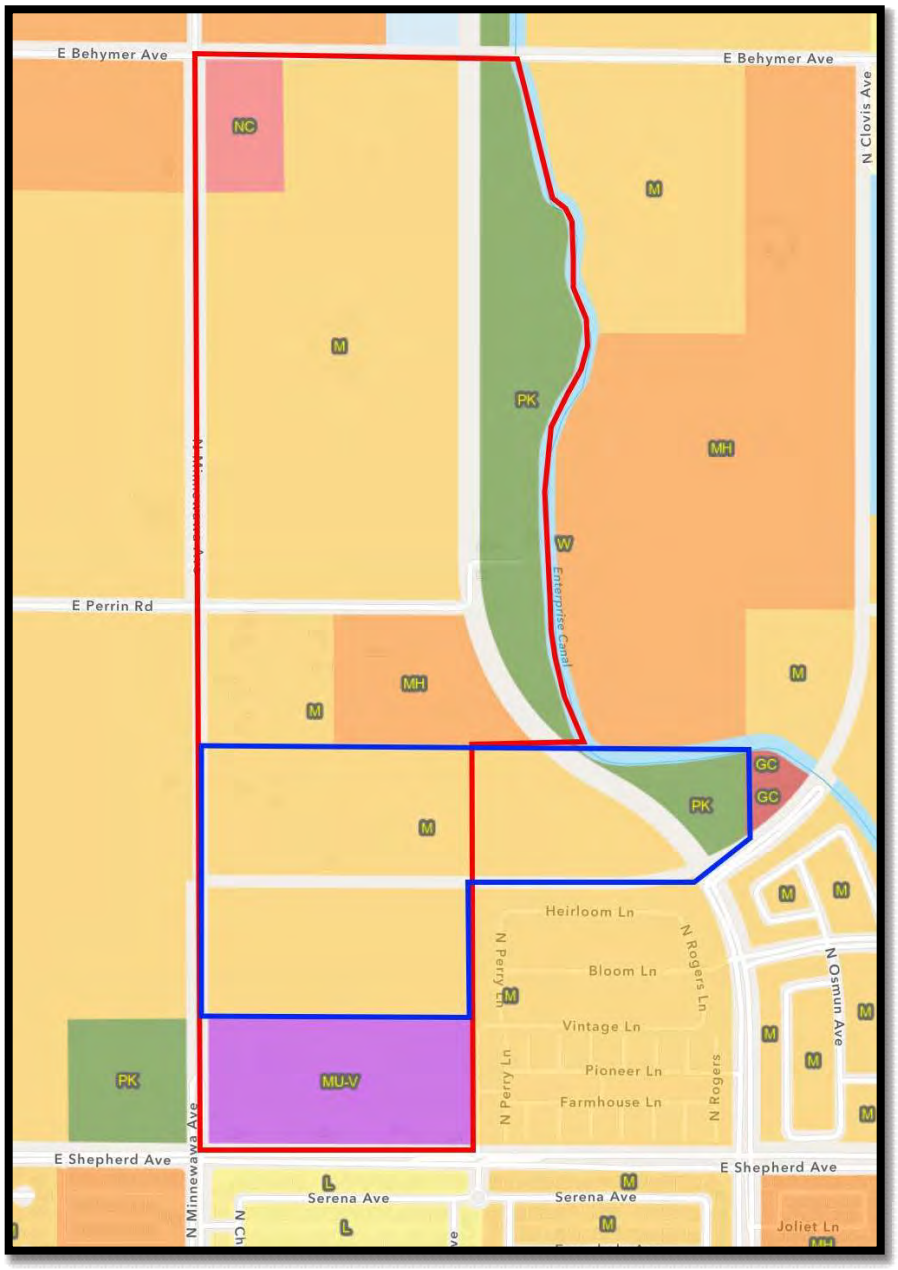
**Figure 2: Aerial of Project Site**




= Annexation Boundary

= Project Site TM6375

## Figure 3: Land Use Designation




Medium Density Residential (4.1-7.0 DU/Ac)

Medium High Density Residential (7.1- 20.0 DU/Ac)

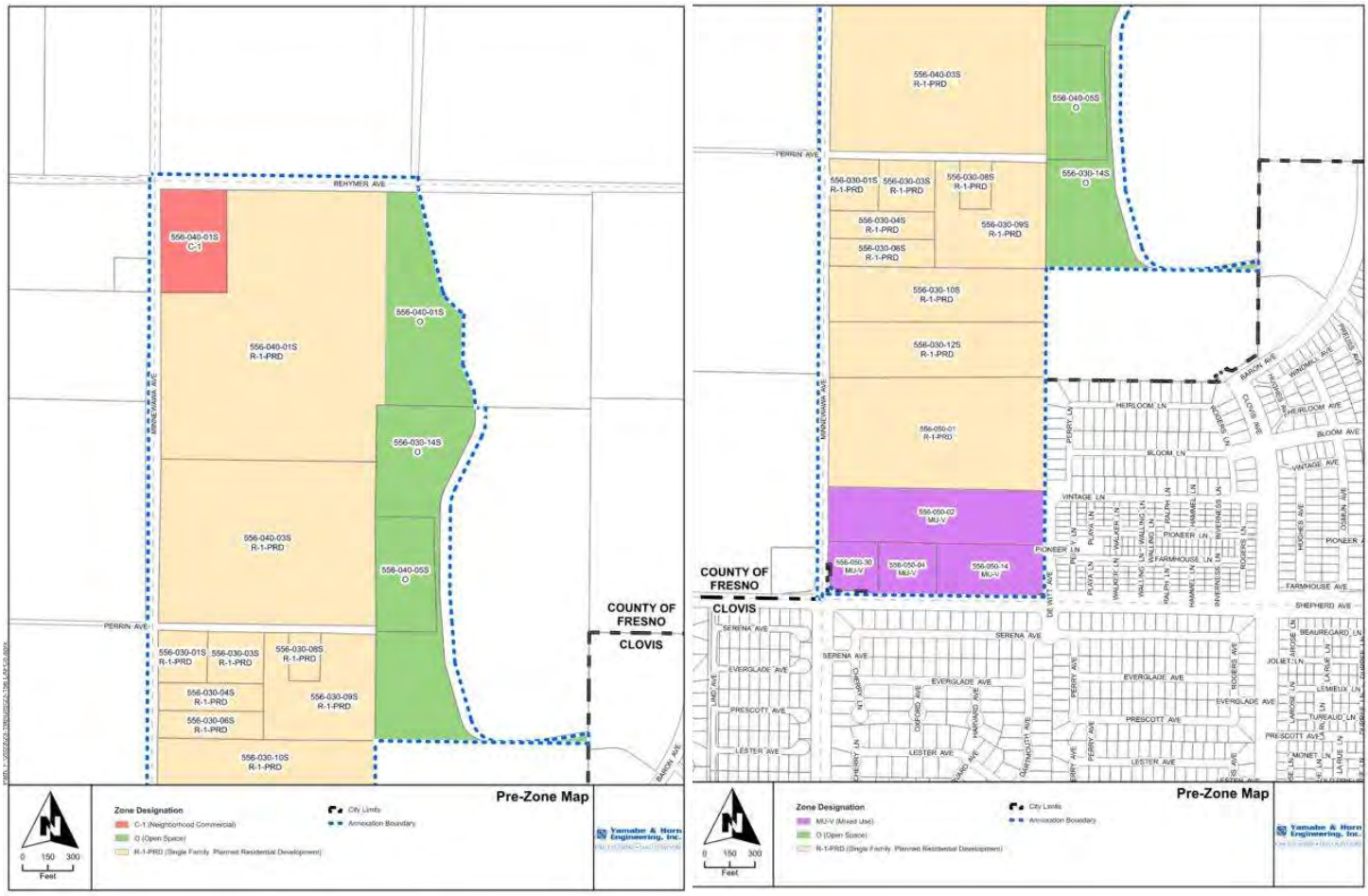
Neighborhood Commercial

Park

Water

MU-V,Mixed Use Village

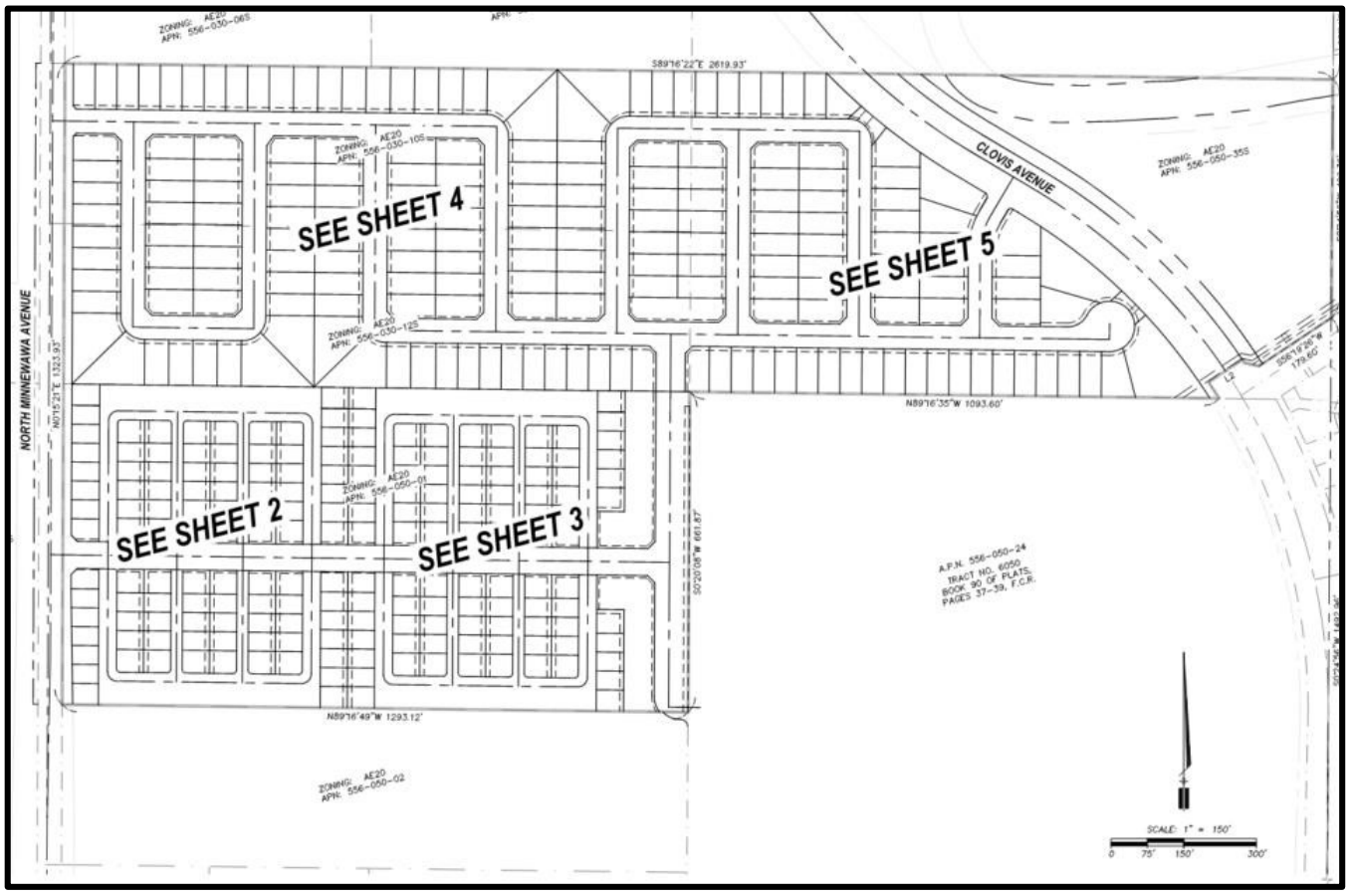
**Figure 4: Zoning District**




**EXISTING ZONING:**
AE20 – Exclusive Agricultural (Fresno County)

**PROPOSED ZONING:**
Various

**Figure 5: Proposed Site Plan**




**Approximate layout**

## Figure 6: Proposed Development Standards

| Designation | | |
|---|---|---|
| Zone District | R-1 PRD | |
| GP Density Range | Meduim Density and very low density (8.39 DU/AC) | |
| Dwelling Units | 45 | |
| **BUILDING INTENSITY** | | |
| Minimum Lot Area | 4,230 | |
| Minimum Lot Width | 45' | |
| Minimum Lot Depth | 94' | |
| Maximum Coverage | 32% | |
| Maximum Height | 26'3" | |
| Curved Cul-de-Sac or Corner Lot | N/A | |
| **Permitted Density** | | |
| Residential Density | 1 Dwelling | |
| **Set Backs (Minimum)** | | |
| Front: | 16' | |
| Side: | 5' | |
| Rear: | 20 ft. min from property line | |
| Garages/Street/Parking | 2-car | 20x20 min |
| Street (Interior) | 36 ft min. | curb-to curb |
| Parking | Standard city street parking/ Driveway | |
| **Accessory Uses** | | |
| Walls/Fences | 4' min.-7' | |
| Pools and Spas | 3' min | |
| Equiptment | N/A | |
| Covered Structures | 12' High max. | |

| Designation | | |
|---|---|---|
| Zone District | R-1 PRD | |
| GP Density Range | Meduim Density and very low density (8.39 DU/AC) | |
| Dwelling Units | 154 | |
| **BUILDING INTENSITY** | | |
| Minimum Lot Area | 4,230 | |
| Minimum Lot Width | 45 | |
| Minimum Lot Depth | 94 | |
| Maximum Coverage | 52% | |
| Maximum Height | 18'11" | |
| Curved Cul-de-Sac or Corner Lot | N/A | |
| **Permitted Density** | | |
| Residential Density | 1 Dwelling | |
| **Set Backs (Minimum)** | | |
| Front: | 12ft. from property line | |
| Side: | 5ft. min from property line | |
| Rear: | 14 ft. min from property line | |
| Garages/Street/Parking | 2-car | 20'x20' min |
| Street (Interior) | 36 ft. min | curb-to curb |
| Parking | Per city standard/Driveway | |
| **Accessory Uses** | | |
| Walls/Fences | 4' min.-7' | |
| Pools and Spas | 3' min | |
| Equiptment | N/A | |

| Designation | | |
|---|---|---|
| Zone District | R-1 PRD | |
| GP Density Range | Meduim Density and very low density (8.39 DU/AC) | 1 unit per lot |
| Dwelling Units | 188 | |
| **BUILDING INTENSITY** | | |
| Minimum Lot Area | 2,106 | |
| Minimum Lot Width | 39' | |
| Minimum Lot Depth | 56' | |
| Maximum Coverage | 62% | |
| Maximum Height | 26'7" | |
| Curved Cul-de-Sac or Corner Lot | N/A | |
| **Permitted Density** | | |
| Residential Density | 1 Dwelling | |
| **Set Backs (Minimum)** | | |
| Rear Entry: | 9' from property line | |
| Side: | 0' ft. Non Patio/7ft. Patio Side | |
| Front: | 4ft. Min from property line to garage | |
| Garages/Street/Parking | 2-car | 20x20 min |
| Street (Interior) | 24 ft. min | curb-to curb |
| Parking | 258 Spaces | |
| **Accessory Uses** | | |
| Walls/Fences | 4' min.-7' | |
| Pools and Spas | 3' min | |
| Equiptment | N/A | |
| Covered Structures | 12' High max. | |

**Proposed development standards only. Actual standards may change during the Planned Development Permit and Residential Site Plan Review process.**

## Figure 7: Conceptual Elevations



**Conceptual elevations only. Final product may change during the review process.**

## H. ENVIRONMENTAL CHECKLIST

This section provides an evaluation of the potential environmental impacts of the proposed project and are based on CEQA Guidelines Appendix G. For each issue area, one of four conclusions is made:

- **No Impact**: No project-related impact to the environment would occur with project development.
- **Less Than Significant Impact:** The proposed project would not result in a substantial and adverse change in the environment. This impact level does not require mitigation measures.
- **Less Than Significant with Mitigation Incorporated**: The proposed project would result in an environmental impact or effect that is potentially significant, but the incorporation of mitigation measure(s) would reduce the project-related impact to a less than significant level.
- **Potentially Significant Impact**: The proposed project would result in an environmental impact or effect that is potentially significant, and no mitigation can be identified that would reduce the impact to a less than significant level.

### 1. AESTHETICS

| Except as provided in Public Resources Code Section 21099, would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Have a substantial effect on a scenic vista? | | | | X |
| b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway? | | | | X |
| c. Substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality? | | | | X |
| d. Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area? | | | X | |

**ENVIRONMENTAL SETTING**

The City of Clovis is located within the San Joaquin Valley. Thus, much of the City and its surrounding areas are predominantly flat. As a result, on clear days, the Sierra Nevada Mountains are visible to the east depending on your location. Aside from the Sierra Nevada Mountains, there are no officially designated focal points or viewsheds within the City. Policy 2.3, Visual Resources, of the Open Space Element of the 2014 Clovis General Plan, requires maintaining public views of open spaces, parks, and natural features and to preserve Clovis' viewshed of the surrounding foothills.

In general, the Project site is located in the fringes of Clovis and is situated adjacent to a mix of neighboring agricultural lands, rural residential, and medium density residential housing.

## DISCUSSION

a) *Would the project have a substantial effect on a scenic vista?*

**No Impact.** As mentioned above, there are no officially designated scenic vistas or focal points in the City of Clovis other than the Sierra Nevada Mountains which can be viewed on clear days. The Project would allow structures to be constructed at a maximum height of 26 feet-7 inches. The Project site is located within the southern portion of the Heritage Grove area, which is adjacent to the existing urbanized areas south of Shepherd Avenue. Therefore, because the Project would be constructed at a reduced maximum height in comparison to the standard single family residential zone districts and because the Project site is within the southern portion of the Heritage Grove area, the Sierra Nevada would be preserved and **no impact** would occur with regards to the project having a substantial effect on a scenic vista. As a result, no mitigation measures are required.

b) *Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway?*

**No Impact.** As stated in the 2014 Clovis General Plan EIR, there are no Caltrans-designated scenic highways within the City of Clovis.[3] Further, there are no existing historical structures or rock outcroppings located on or within the immediate vicinity of the site; therefore, the Project would result in **no impact** with regards to substantially damaging scenic resources within a State scenic highway, and no mitigation measures are required.

c) *Would the project substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?*

**No Impact.** As mentioned previously, the existing site is currently surrounded by residential uses of various densities and agricultural. Thus, as a proposed medium density residential project, the homes would fit within the character of the surrounding area. Furthermore, the Heritage Grove Master Plan includes a planned linear neighborhood park along the Enterprise Canal to the east of the Project site which will provide quality public views.

Policy 3.6 of the Land Use Element of the Clovis General Plan encourages a mix of housing types, unit sizes, and densities. The Project, being of a similar scale as surrounding development immediately to the east and further south, would comply with Policy 3.6 by resulting in a housing product that adds to the variety of housing stock within the City.

Further, the Project would undergo RSPR which would ensure that the overall design and character is consistent and/or complements the surrounding areas. The RSPR process will ensure the Project complies with relevant design policies, such as in the Heritage Grove Master Plan, the CMC, and the 2014 Clovis General Plan. During the review, the height, color and materials are reviewed for consistency with these plans and guidelines. Consequently, **no impact** would occur with regards to substantially degrading the existing visual character of the site and its surroundings, and no mitigation measures are required.

3 2014 Clovis General Plan EIR, June 2014, Page 5.1-1.

d) *Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?*

**Less-Than-Significant Impact.** The Project consists of 385 single-family homes. As a result of the existing site being agricultural, the Project would result in new sources of light and glare. Light and glare from the Project would be typical of residential development, including but not limited to, sources such as exterior lighting for safety, light and glare from vehicles or from light reflecting off of surfaces such as windshields. Other sources of light would be the interior lighting of the homes at night. These sources of light and glare are not typically associated with causing significant effects on the environment, especially given that the surrounding developed area to the east and further south already emits similar sources of light and glare and are part of the existing conditions present in the vicinity. Further, the 2014 Clovis General Plan designates the surrounding vicinity as residential and mixed use land uses; therefore, would result in similar sources and intensities of light and glare. Sources of future light and glare are comprised of streetlights, and light and glare from vehicles going to and from home.

Although the Project would introduce new sources of light and glare, the RSPR process would ensure that the design and placement of lighting is appropriate to minimize potential light and glare impacts to surrounding properties. Further, the Project would be required to comply with Section 9.22.050, Exterior Light and Glare, of the CMC, which requires light sources to be shielded and that lighting does not spillover to adjacent properties.

Overall, through the City's design review process and compliance with Section 9.22.050 of the CMC, the Project would result in a **less-than-significant impact** with regard to lighting adversely affecting day or nighttime views in the area. No mitigation measures are required.

## 2. AGRICULTURE AND FORESTRY RESOURCES

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use. | | X | | |
| b. Conflict with existing zoning for agricultural use, or a Williamson Act contract? | | X | | |
| c. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220 (g)) or timberland (as defined in Public Resources Code section 4526)? | | | | X |
| d. Result in the loss of forest land or conversion of forest land to non-forest use? | | | | X |
| e. Involve other changes in the existing environment which, due to their location or nature, could result in | | X | | |

| | | | | |
|---|---|---|---|---|
| conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use? | | | | |

## ENVIRONMENTAL SETTING

The Project annexation area is bounded by Behymer to the north, Shepherd to the south, Minnewawa to the east, and generally the Enterprise Canal to the west. The Project site proposes to develop ±58.9 acres into a 385-lot single-family residential development. The site is within the fringe of the City and is surrounded by existing residential to the east and further south.

## DISCUSSION

a) *Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?*

**Less Than Significant Impact with Mitigation.** According to the California Important Farmland finder interactive map from the California Department of Conservation,[4] the Project site contains Prime Farmland and Farmland of Statewide Importance (2020 data). The proposed Project would develop ±58.9 acres into a 385-lot single-family residential development. Therefore, development of the proposed Project would result in the conversion of Prime Farmland and Farmland of Statewide Importance to a non-agricultural use.

The City of Clovis 2014 General Plan identifies that the 2035 buildout of the General Plan would result in significant unavoidable impacts related to conversion of Prime Farmland, Unique Farmland, and Farmland of Statewide importance. Thus, the potential impacts associated with the conversion of farmlands as described above were evaluated in conjunction with the General Plan EIR. This initial study relies on the General Plan EIR through the tiering concept (Section 15152 of the CEQA Guidelines) with regard to the analysis of potential farmland conversion impacts associated with the Project. As stated in the General Plan EIR, City policies seek to preserve the agricultural legacy of Clovis by facilitating thoughtful conversion of farmland, and supporting "right to farm" and regional conservation efforts. Therefore, with the inclusion of the following Mitigation Measure, impacts in this category will be reduced to a **less than significant impact with mitigation**.

> Mitigation Measure AGR-1: The Project applicant shall prepare or fund an agricultural resource evaluation prior to project approval. The resource evaluation shall be use generally accepted methodologies (such as the Land Evaluation and Site Assessment Model) to identify the potentially significant impact of the loss of agricultural land. If the loss of agricultural land is determined to be a potentially significant impact, the resource evaluation shall consider the economic viability of future agricultural use of the property. If the agricultural resource is considered significant and future agricultural use is considered economically viable, the conversion will be deemed significant. The City shall require mitigation by one of the following methods:
>
> - Mitigation at a 1:1 ration of converted to preserved acreage through a regional conservation easement, or payment of its valuation equivalent if a fee mitigation program is established. If 1:1 mitigation is determined to be economically infeasible, based upon all of the evidence, the ratio may be reduced to an economically feasible ratio or no further mitigation shall be required. This

4 Farmland Mapping, California Department of Conservation, Interactive mapping tool, https://maps.conservation.ca.gov/DLRP/CIFF/ accessed October 1, 2024.

determination shall be made by the City's Director of Planning and Development Services based upon substantial evidence in the record; or

- Other potential mitigation which achieves the same mitigating effect as the measures identified above, consistent with the CEQA Statutes and Guidelines. This determination shall be made by the City's Director of Planning and Development Services based upon substantial evidence in the record.

The Project site is not designated for farming-related activities under the 2014 General Plan as such would be consistent with the planned growth of the Heritage Grove area and as identified in the General Plan EIR the conversion of farmlands of importance cannot be mitigated. Consequently, because the Project would not result in unplanned impacts to important farmland, a **less than significant impact with mitigation** would occur.

b) *Would the project conflict with existing zoning for agricultural use, or a Williamson Act Contract?*

**Less Than Significant Impact with Mitigation**. The Project includes annexation of the ±201-acre area from Fresno County jurisdiction to the City of Clovis with development of ±58.9-acres for a 385-unit single family residential subdivision. The annexation area is currently zoned within the Exclusive Agricultural Zoning District (AE-20) of Fresno County. As previously discussed, the Project is located within the Heritage Grove area. The City of Clovis has identified Heritage Grove for development, and as such plans on annexing land within Heritage Grove into the City of Clovis. Once annexation has been completed, the parcels within the Project area will be zoned in accordance with Chapter 9.08, Zoning District, of the CMC and consistent with designated land uses outlined in the City's General Plan. All parcels within the Project annexation area will not be zoned for agricultural uses.

Assessor's Parcel Number 556-030-17S is currently under a Williamson Act contract; however, does not currently propose development. When APN 556-030-17S is identified for development, a Williamson Act cancellation process for the parcel would be required to take place prior to the issuance of building permits for such future project. As such, Mitigation Measure AG-1 would be implemented to ensure compliance with the required procedure for cancellation of the Williamson Act contract for APN 556-030-17S. As a result, with implementation of Mitigation Measure AG-1, the proposed Project would not conflict with zoning for agriculture or a Williamson Act contract, and the impact would be **less-than-significant impact with mitigation**.

Mitigation Measure AGR-2: Prior to issuance of building permits for development of APN 556-030-17S, the project applicant would be required to petition for cancellation of the Williamson Act contract for APN 556-030-17S. The applicant would have to meet circumstances and conditions set forth in Government Code Section 51280. After approval of the cancellation petition, the applicant would be able to develop uses that comply with the zoning designation of the parcel per the Clovis Municipal Code.

c) *Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220 (g)) or timberland (as defined in Public Resources Code section 4526)?*

**No Impact.** The Project site does not contain forest land and is not zoned for forestry or other forestry related uses. Further, the General Plan EIR states that there is no land within the existing SOI that is zoned as forest land or timberland. As a result, **no impact** would occur with regards to conflicts with zoning for, or cause rezoning of, forest land. No mitigation measures are required.

d) *Would the project result in the loss of forest land or conversion of forest land to non-forest use?*

**No Impact.** See discussion under Section 2c.

e) *Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?*

**Less Than Significant Impact with Mitigation.** Although the Project site for development of 385-single family homes contains Prime Farmland and Farmland of Statewide Importance according to the Department of Conservation, the site is not designated for agricultural uses, see discussion in Section 2a. The 2014 Clovis General Plan designates the Project site for residential uses. The Project annexation area is located within the Heritage Grove area which is planned to be converted to non-agricultural land pursuant to the 2014 General Plan. However, given that the development within the annexation area would be phased over time, some adjacent agricultural uses would continue to operate until other projects are proposed to be constructed. The City's General Plan contains policies to aid in the preservation of agricultural land, including Policies 2.4 and 2.5 of the General Plan's Open Space and Conservation Element. As such Mitigation Measure AG-2 would be implemented to ensure notification of Right-To Farm to future residents of the Project site, such that residents would be prepared to accept inconveniences and discomfort associated with normal farm activities on parcels adjacent to the Project site. Issuance of Right-to-Farm notifications would prevent agricultural operations from being the subject of nuisance complaints and being forced to cease or curtail operations. The Project site is not designated for forest or timberland. With implementation of Mitigation Measure AG-2, the proposed Project would not result in conversion of farmland to non-agricultural use, and the impact would be **less-than-significant impact with mitigation**.

Mitigation Measure AGR-3: Pursuant to Clovis Municipal Code Section 9.40.170 and the California Civil Code Section 3482.5, prior to approval of building occupancy permits the Project developer shall provide residents of the Project site Right-To-Farm notifications. The Right-To-Farm notification would advise future occupants of the Project site that they are residing adjacent to agricultural land that has been active for three or more years and that they should expect continued activities associated with agricultural production.

## 3. AIR QUALITY

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Conflict with or obstruct implementation of the applicable air quality plan? | | | X | |
| b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard? | | | X | |
| c. Expose sensitive receptors to substantial pollutant concentrations? | | | X | |
| d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people? | | | | X |

**ENVIRONMENTAL SETTING**

An Air Quality and Greenhouse Gas Impact Assessment (AQ/GHG Report) was prepared by VRPA Technologies, Inc. in January 2024 (see Appendix A). Information in this AQ/GHG Report is used for the analysis included in both the Air Quality and Greenhouse Gas Emissions section of this Initial Study.

### *San Joaquin Valley Air Basin*

The City of Clovis (City) is in the central portion of the San Joaquin Valley Air Basin (SJVAB). SJVAB consists of eight counties: Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, and Tulare. Air pollution from significant activities in the SJVAB includes a variety of industrial-based sources as well as on- and off-road mobile sources. These sources, coupled with geographical and meteorological conditions unique to the area, stimulate the formation of unhealthy air.

The SJVAB is approximately 24,840 square miles and is the second largest air basin in California. It is bordered by the Sierra Nevada to the east, the Coast Ranges to the west, and the Tehachapi mountains to the south. The SJVAB is open to the north extending to the Sacramento Valley Air Basin.

### *Topography*[5]

The topography of a region is important for air quality because mountains can block airflow that would help disperse pollutants and can channel air from upwind areas that transports pollutants to downwind areas. Wind patterns within the SJVAB generally flow into the basin from the San Joaquin River Delta. The mountain ranges from the west hinder wind access into the SJVAB while the Sierra Nevada Mountain Range provides a barrier to the east. As mentioned above, these topographic features result in weak airflow that becomes restricted vertically by high barometric pressure over the SJVAB.

### *Climate*[6]

The SJVAB is in a Mediterranean climate zone. Mediterranean climates are characterized by hot, dry summers with sparse rainfall, which occurs mainly in winter. Summertime maximum temperatures often exceed 100°F while winter low temperatures range between 40-50 degrees and is not uncommon to drop below freezing.

In addition to the topographic conditions, the climate can contribute to air quality problems. Temperature inversions can trap air within the SJVAB, thereby preventing the vertical dispersal of air pollutants.
Any emissions of pollutants can be trapped below the inversion.

Ozone often afflicts aeras downwind of the original source and can be easily transported by winds. Peak ozone tends to be higher in the southern portion of the SJVAB. Other primary pollutants such as carbon monoxide may form in high concentrations when wind speed is low, during winder cooler temperatures and calm conditions increase the likelihood of carbon monoxide concentrations.

### *Ambient Air Quality Standards*

The Clean Air Act (CAA) was passed in 1963 by the US Congress and has been amended several times. The 1970 Clean Air Act amendments strengthened previous legislation and laid the foundation for the regulatory scheme of the 1970s and 1980s. In 1977, Congress again added several provisions, including nonattainment requirements for areas not meeting National AAQS and the Prevention of Significant Deterioration program. The 1990 amendments represent the latest in a series of federal efforts to regulate the protection of air quality

5 Air Quality and Greenhouse Gas Analysis Report, VRPA Technologies, Inc, page 18, January 2024.

6 Air Quality and Greenhouse Gas Analysis Report, VRPA Technologies, Inc, page 18-19, January 2024.

in the United States. The CAA allows states to adopt more stringent standards or to include other pollution species. The California Clean Air Act (CCAA), signed into law in 1988, requires all areas of the state to achieve and maintain the California AAQS by the earliest practical date. The California AAQS tend to be more restrictive than the National AAQS, based on even greater health and welfare concerns.

These National and California AAQS are the levels of air quality considered to provide a margin of safety in the protection of the public health and welfare. They are designed to protect "sensitive receptors," those most susceptible to further respiratory distress, such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and persons engaged in strenuous work or exercise. Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed.

Both California and the federal government have established health-based AAQS for seven air pollutants. As shown in Table 4, Ambient Air Quality Standards for Criteria Pollutants, these pollutants are ozone (O3), nitrogen dioxide (NO2), carbon monoxide (CO), sulfur dioxide (SO2), coarse inhalable particulate matter (PM10), fine inhalable particulate matter (PM2.5), and lead (Pb). In addition, the state has set standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety.

In addition to the criteria pollutants, toxic air contaminants (TACs) are another group of pollutants of concern. TACs are injurious in small quantities and are regulated despite the absence of criteria documents. The identification, regulation and monitoring of TACs is relatively recent compared to that for criteria pollutants. Unlike criteria pollutants, TACs are regulated on the basis of risk rather than specification of safe levels of contamination.

**Table 2: Ambient Air Quality Standards**[7]

| Pollutant | Averaging Time | State Standard | Federal Primary Standard |
|---|---|---|---|
| Ozone | 1-Hour<br>8-Hour | 0.09 ppm<br>0.07 ppm | --<br>0.07 ppm |
| Carbon Monoxide | 1-Hour<br>8-Hour | 20 ppm<br>9 ppm | 35 ppm<br>9 ppm |
| Nitrogen Dioxide | 1-Hour<br>Annual | 0.18 ppm<br>0.030 ppm | 100 ppb<br>0.053 ppm |
| Sulfur Dioxide | 1-Hour<br>3-Hour<br>24-Hour<br>Annual | 0.25 ppm<br>--<br>0.04 ppm<br>-- | 75 ppb<br>--<br>0.14 ppm<br>0.030 ppm |
| $PM_{10}$ | 24-Hour<br>Annual | 50 ug/$m^3$<br>20 ug/$m^3$ | 150 ug/$m^3$<br>-- |
| $PM_{2.5}$ | 24-Hour<br>Annual | --<br>12 ug/$m^3$ | 35 ug/$m^3$<br>12 ug/$m^3$ |
| Lead | 30-Day Avg.<br>Calendar Quarter<br>3-Month Avg. | 1.5 ug/$m^3$<br>--<br>-- | --<br>1.5 ug/$m^3$<br>0.15 ug/$m^3$ |
| Sulfates | 24 Hour | 25 ug/$m^3$ | -- |
| Hydrogen Sulfide | 1 Hour | 0.03 ppm | -- |

7 Air Quality and Greenhouse Gas Analysis Report, VRPA Technologies, Inc, page 9, January 2024.

| | | | |
|---|---|---|---|
| Vinyl Chloride | 24 Hour | 0.01 ppm | -- |
| Notes: ppm = parts per million; ppb = parts per billion; ug/m3 = micrograms per cubic meter. | | | |
| Source: Air Quality and Greenhouse Gas Analysis Report, VRPA Technologies, Inc, page 10, January 2024. | | | |

***Attainment Status***[8]

The San Joaquin Valley Air Pollution Control District (SJVAPCD) is the responsible agency for monitoring and regulating air pollutant emissions from stationary, area, and indirect sources within Fresno County and throughout the SJVAB. The SJVAPCD prepares plans for the attainment of ambient air quality standards, adoption and enforcement of rules and regulations concerning sources of air pollution, issuance of permits for stationary sources of air pollution, inspection of stationary sources of air pollution and response to citizen complaints, monitoring of ambient air quality and meteorological conditions, and implementation of programs and regulations required by FCAA and CCAA. The SJVAPCD adopted the San Joaquin Valley Air Quality Attainment Plan (AQAP), in response to the requirements of the State CCAA.

The SJVAPCD and the California Air Resources Board (CARB) maintain numerous air quality monitoring sites throughout each County to measure ozone, PM2.5, and PM10. The SJVAB is nonattainment for ozone (1 hour and 8 hour) and PM. The EPA uses standard classifications to reflect the severity of the nonattainment problem; classifications range from marginal nonattainment to extreme nonattainment. The SJVAB was classified as extreme nonattainment for ozone by the EPA (2004). The federal 1 hour ozone standard was revoked on June 6, 2005.

**DISCUSSION**

a) *Would the project conflict with or obstruct implementation of the applicable air quality plan?*

**Less-Than-Significant Impact.** The primary way of determining consistency with the air quality plan's assumptions is determining consistency with the General Plan to ensure that the Project's density and land use are consistent with the growth assumption used in the air quality plan. The Project is consistent with the currently adopted 2014 Clovis General Plan; therefore, is consistent with the growth assumptions under the applicable air quality plan and per the AQ/GHG Report, the Project will not conflict with or obstruct implementation of any air quality plans. [9]

The SJVAPCD provided a comment letter, dated October 8, 2024 indicating that the Project may exceed thresholds for criteria pollutants. However, the Project would be subject to compliance with District Rule 9510 which is intended to reduce a project's impact through project design elements or payment of off-site fees. The Project applicant would be required to submit to the SJVAPCD an Air Impact Assessment (AIA). Further, the Project would be required to submit a Dust Control Plan (DCP) to the SJVAPCD for review and approval. Consequently, a **less-than-significant** impact would occur and no mitigation measures are required.

b) *Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?*

**Less-Than-Significant Impact.** The Fresno County area is nonattainment for Federal and State air quality standards for ozone and PM2.5 and nonattainment for State standards for PM10. The SJVAPCD has prepared the 2016 and 2013 Ozone Plans, 2007 PM10 Maintenance Plan, and 2012 PM2.5 Plan to achieve Federal and

8 Air Quality and Greenhouse Gas Analysis Report, VRPA Technologies, Inc, page 14, January 2024.

9 Air Quality and Greenhouse Gas Analysis Report, VRPA Technologies, Inc, page 52-53, January 2024.

State standards for improved air quality in the SJVAB regarding ozone and PM[10]. The Project is consistent with the 2014 Clovis General Plan; therefore, the population growth associated with the Project was evaluated with the adopted General Plan EIR. Air pollution is largely a cumulative impact of both past and future development. Future attainment of State and Federal ambient air quality standards relies on implementation of SJVAPCDs attainment plans. Results of the analysis based on the AQ/GHG Report show that emissions generated from construction and operation of the Project will be **less-than-significant**; therefore, no mitigation measures are required.

c) *Would the project expose sensitive receptors to substantial pollutant concentrations?*

**Less-Than-Significant Impact.** Sensitive receptors are generally considered to include children, the elderly, and persons with pre-existing respiratory and cardiovascular illness. A sensitive receptor is a location that houses or attracts children, the elderly, or people with illnesses. Examples of these receptors are considered to be hospitals, residences, schools and school facilities, daycare facilities, and convalescent facilities. The Project proposes development of residences; therefore, will potentially house sensitive receptors. Based the AQ/GHG Report, an evaluation of nearby land uses considering CARB's Pollution Mapping Tool shows that the Project will not place sensitive receptors in the vicinity of exiting toxic sources and is located more than 2.5 miles from the State Route 168 freeway[11]; therefore, a **less-than-significant** impact would occur and no mitigation measures are needed.

d) *Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?*

**No Impact.** Generally, sources considered to emit odors are associated with wastewater treatment facilities, sanitary landfills, petroleum refineries, chemical manufacturing, and other industrial/manufacturing related uses. The Project is a residential use, thus, the odors associated with such use would be similar to that of the surrounding area which includes and is planned for residential uses. Overall, because the Project is a residential use, similar to existing residential uses, the types of odors that could result from the Project would not be considered an objectionable odor source. Thus, a **no impact** would occur.

## 4. BIOLOGICAL RESOURCES

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service? | | X | | |
| b. Have a substantial adverse effect on any riparian habitat or other | | | | X |

10 Air Quality and Greenhouse Gas Analysis Report, VRPA Technologies, Inc, page 53, January 2024.

11 Air Quality and Greenhouse Gas Analysis Report, VRPA Technologies, Inc, page 53-54, January 2024.

| | | | | |
|---|---|---|---|---|
| sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Game or US Fish and Wildlife Service? | | | | |
| c. Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means? | | | X | |
| d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites? | | | | X |
| e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? | | | X | |
| f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural community Conservation Plan, or other approved local, regional, or state habitat conservation plan? | | | | X |

**ENVIRONMENTAL SETTING**

A program-level evaluation of biological resources was completed by LSA in the fall of 2021 and winter of 2022 for an area encompassing the entire annexation boundary. A project-level Biological Evaluation Report (Biological Report) was prepared by Live Oak Associates, Inc. (LOA) in August 2023 (see Appendix B). This Biological Report included an investigation of the biotic resources of the ±58.9 acre Project site and assessed potential project-related impacts pursuant to CEQA. Any future development occurring within the annexation area would require a sperate project-specific analysis.

With regard to the program-level evaluation, LSA biologists conducted a literature review and records search to identify the existence and potential for occurrence of sensitive or special-status plant and animal species in the vicinity of the Project and associated annexation area. Federal and State lists of sensitive species were also examined. Electronic database records reviewed included the California Natural Diversity Database (CNDDB), California Native Plant Society's (CNPS) Electronic Inventory of Rare and Endangered Vascular Plants, and United States Fish and Wildlife Service's (USFWS) National Wetlands Inventory (NWI). Historic and current aerial imagery, existing environmental reports for developments in the project vicinity, regional habitat conservation plans, and local land use policies related to biological resources were also reviewed. A field survey covering the study area was conducted on December 6, 2021.

With the exception of the Enterprise No. 109 Canal, the area evaluated in the programmatic evaluation was found to be strictly upland in nature with well-drained soils and vegetation consisting of disturbed annual grassland with patches of mixed herbaceous ruderal/invasive species and bare ground in several areas. Other areas of the study area are primarily developed or used for agricultural purposes. Ongoing soil disturbance and the resulting competitive exclusion by invasive non-native plants limit the potential for native flora to occur within the study area. No native or special-status vegetation communities were found to exist in the study area. No special-status plant species were observed during the December 2021 field survey; however, the field survey was conducted outside of the typical blooming season for several regionally-occurring special-status plant species.

Habitat in the area is considered low quality with respect to most of the regionally-occurring special-status animal species, and no special-status species were observed during the field survey. However, three special-status animal species— burrowing owl (*Athene cunicularia*), Swainson's hawk (*Buteo swainsoni*), and California horned lark (*Eremophila alpestris actia*)—have at least a low potential to occur in the general area due to the presence of suitable habitat and known occurrence records in the vicinity. The study area also contains suitable foraging habitat for special status bird species, such as Swainson's hawk and golden eagle (*Aquila chrysaetos*), among many other common resident and migratory bird species.

As part of the project-specific Biological Report, the Project site was surveyed in July 2023 for habitat, plants, and animals. The existing Project site is vacant and undeveloped with of active almond orchards, disked fields, and several previously occupied residential sites from which the structures and most of the trees were removed at some point in the past. The following analysis is informed by the programmatic evaluation described above, but is primarily based on information provided by the project-level Biological Report prepared by LOA, due to its focus on the Project area and its more recent preparation.

**DISCUSSION**

a) *Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?*

**Less-Than-Significant Impact With Mitigation.** As described in the Biological Report, a reconnaissance-level field survey of the Project site was conducted July 12, 2023 and October 16, 2024 by LOA. The survey consisted of driving and walking throughout the site to identify habitats, plant, and animal species. During the field survey, three biotic habitats were identified within the Project site: orchard, ruderal, and artificial pond[12].

As part of the Biological Report, a search of the California Natural Diversity Database (CNDDB) was conducted to determine the possible presence of special-status species (plants and animals) in the vicinity of the Project. According to the search and field survey sixteen special status plant species were found within the Project vicinity, one of these species, the Stanford's arrowhead (Sagittaria sanfordii), has some potential to occur on the Project site. During LOA's survey, several Sanford's arrowhead populations were identified immediately adjacent to the project site in the Enterprise Canal, and a different member of the same genus, S. montevidensis, was noted in one of the site's ponded areas. If the Sanford's arrowhead were to colonize any of the site's ponded areas prior to residential buildout, individuals and populations of this species would be lost.[13] The remaining fifteen special status plants are considered absent from or unlikely to occur on the Project site. With

12 Biological Evaluation Report for Lennar Homes Tract 6375 prepared by Live Oak Associates, Inc., page 6, August 2023, revised October 2024.

13 Biological Evaluation Report for Lennar Homes Tract 6375 prepared by Live Oak Associates, Inc., page 29, August 2023, revised October 2024.

implementation of Mitigation Measure BIO-1, 2, and 3 the proposed Project would not result a substantial effect on the Stanford's arrowhead, thus resulting in a **less-than-significant impact with mitigation**.

Mitigation Measure BIO-1: **Sanford's arrowhead.** Prior to the start of construction, a qualified biologist will conduct protocol-level rare plant surveys following California Department of Fish and Wildlife's 2018 Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities, or most current agency guidance. Surveys will target all habitats of the Project site that could potentially support the Sanford's arrowhead, and will be conducted when local populations of the Sanford's arrowhead are in bloom and readily identifiable.

Mitigation Measure BIO-2: **Sanford's arrowhead.** If Sanford's arrowhead populations are identified on site, project design will be modified, if at all feasible, to avoid the plants. A qualified biologist will identify an appropriate buffer around the plants, and no developments or other project-related activities will be permitted within.

Mitigation Measure BIO-3: **Sanford's arrowhead.** If it is not feasible to avoid Sanford's arrowhead populations, the affected populations will be salvaged in accordance with a plan prepared by a qualified biologist that will include contingencies for an unsuccessful salvage effort. Salvage methods may include seed collection and dispersal, transplanting rootstock, and/or topsoil collection and redispersal, as appropriate. The relocation area(s) will be located in alternative on-site emergent wetland habitat to be established and maintained for this species, and protected through a deed restriction, conservation easement, or similar mechanism. Relocation areas will be monitored by a qualified biologist for a period of five years to ensure successful establishment.

According to the CNDDB search 22 special status animal species have been documented in the general vicinity of the Project site. Of these, 16 are considered absent or unlikely to occur on the Project site due to absence of suitable habitat, the site's urban setting, or other landscape features.[14] The Project site has the potential to be used by the monarch butterfly, Swainson's hawk, and various nesting birds or raptors.[15] The following mitigation measures will reduce the impacts to the monarch butterfly, Swainson's hawk, and various nesting birds or raptors to **less-than-significant level with mitigation**.

Mitigation Measure BIO-4: **Monarch butterfly.** Prior to the start of construction, a qualified biologist will survey all proposed work areas for milkweed plants. The survey will be conducted at a time of year when milkweed is readily identifiable. The objective of the survey will be to tally and map all milkweed plants that could potentially be impacted by project activities (Milkweed Survey).

Mitigation Measure BIO-5: **Monarch butterfly.** If feasible, any removal of milkweed plants required for residential buildout will take place entirely outside of the period in which monarchs are most likely to breed in the project vicinity, March 1-August 31 (Construction Timing).

Mitigation Measure BIO-6: **Monarch butterfly.** If removal of milkweed plants cannot be avoided between March 1 and August 31, a qualified biologist will conduct pre-construction surveys for non-volant life stages of monarchs on those milkweed plants that will be removed, within 10 days prior to the start of construction. If any non-volant life stages are identified, then those plants will be avoided until it is confirmed by a qualified biologist that a monarch is no longer present (Preconstruction Surveys and Avoidance).

14 Biological Evaluation Report for Lennar Homes Tract 6375 prepared by Live Oak Associates, Inc., pages 34, August 2023, revised October 2024.

15 Biological Evaluation Report for Lennar Homes Tract 6375 prepared by Live Oak Associates, Inc., pages 31-34, August 2023, revised October 2024.

Mitigation Measure BIO-7: **Monarch butterfly.** Impacted milkweed plants will be replaced on site in accordance with a revegetation plan prepared by a qualified biologist. A minimum of 50 replacement plantings will be provided, or three times the number of milkweed plants identified at the time of the milkweed survey (see Mitigation Measure BIO-4), whichever is greater. Replacement plantings must be locally native; preferred species are narrowleaf milkweed (A. fascicularis) and showy milkweed (A. speciosa). The planting site(s) must be in area(s) that will not be mowed or treated with pesticides or herbicides, to be guaranteed via a deed restriction or similar protective mechanism. Revegetation areas will be monitored by a qualified biologist for a period of five years to ensure successful establishment. (Compensatory Mitigation).

Mitigation Measure BIO-8: **Swainson's hawk.** If feasible, project activities will take place entirely outside of the Swainson's hawk nesting season, defined here as March 1 to September 15. If Mitigation Measure BIO-8 is implemented, no further mitigation for this species is required. (Construction Timing).

Mitigation Measure BIO-9: **Swainson's hawk.** If project activities must occur between March 1 and September 15, a qualified biologist will conduct nest surveys for Swainson's hawks on and within ¼ mile of the Project site within the survey periods prescribed by Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley (SHTAC 2000). Three nest surveys will be conducted in each of two survey periods, with the survey periods defined as follows: Period I – January 1 to March 20, Period II – March 20 to April 5, Period III – April 5 to April 20, Period IV – April 21 to June 10, and Period V – June 10 to July 30. Surveys will take place in the two survey periods immediately prior to the anticipated start of construction activities during the nesting season, with the exception of Period III, when no surveys should take place per the SHTAC guidelines. The surveys will consist of inspecting all accessible, suitable trees of the survey area for the presence of nests and hawks. (Nesting Surveys).

Mitigation Measure BIO-10: **Swainson's hawk.** If active Swainson's hawk nests are detected during the surveys or observed incidentally, a minimum ¼-mile no-disturbance buffer will be delineated and maintained around each nest, to remain in place until the breeding season has ended or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or parental care for survival. (No-Disturbance Buffers).

Mitigation Measure BIO-11: **Swainson's hawk.** If an active Swainson's hawk nest is detected, and a ¼-mile no-disturbance buffer is not feasible, the project applicant will consult with CDFW to discuss how to implement the project and avoid take. If take cannot be avoided, take authorization will be obtained through the acquisition of a State Incidental Take Permit (ITP), pursuant to Fish and Game Code section 2081 subdivision (b). (CDFW Consultation).

Mitigation Measure BIO-12: **Other nesting birds and raptors.** If feasible, project activities will take place entirely outside of the avian nesting season, defined here as February 1 to September 15. If Mitigation Measure BIO-12 is implemented, no further mitigation for nesting birds or raptors is required. (Construction Timing).

Mitigation Measure BIO-13: **Other nesting birds and raptors.** If project activities must occur between February 1 and September 15, a qualified biologist will conduct surveys for active bird nests within 10 days prior to the start of work during this period. The survey area will encompass the site and accessible surrounding lands within 250 feet for nesting birds and 500 feet for nesting raptors (Preconstruction Surveys).

Mitigation Measure BIO-14: **Other nesting birds and raptors.** Should any active nests be discovered in or near the work area, a qualified biologist will conduct an additional survey to establish a behavioral baseline of these nests. (Behavioral Baseline).

Mitigation Measure BIO-15: **Other nesting birds and raptors.** If feasible, a qualified biologist will continuously monitor active nests during project activities to detect behavioral changes resulting from the project. If behavioral changes occur, the activities that appear to be causing the changes (as determined by the qualified biologist) will be discontinued. At the biologist's discretion, activities may be resumed (1) in a modified form, with lower levels of visual or sound disturbance, (2) following the implementation of measures designed to reduce perceived disturbance, e.g. visual buffers, and/or (3) at a later nesting stage, when the affected birds are less sensitive to disturbance. (Continuous Monitoring).

Mitigation Measure BIO-16: **Other nesting birds and raptors.** If continuous monitoring of active nests is not feasible, or if nesting birds have behavioral changes that persist following the implementation of one or more of the corrective actions identified above under Mitigation Measure 4.1.4d, a minimum no-disturbance buffer of 250 feet will be established around active bird nests and 500 feet around active raptor nests. These buffers will remain in place until after the breeding season has ended or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or on-site parental care for survival. Variance from these no-disturbance buffers is possible when there is compelling biological or ecological reason to do so. A qualified biologist will advise and support any variance from these buffers. (No-Disturbance Buffers).

Implementation of mitigation measures BIO-1 though BIO-16 would reduce potential impact on special status species ensuring that a **less-than-significant impact with mitigation** occurs.

b) *Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?*

**No Impact.** As mentioned previously, the Project site is characterized as vacant and undeveloped with active almond orchards, disked fields, and several previously occupied residential sites from which the structures and most of the trees were removed at some point in the past. California contains a wide range of natural communities, or unique assemblages of plants and animals. These communities have largely been classified and mapped by Californina Department of Fish and Wildlife (CDFW) as part of their Vegetation Classification and Mapping Program (VegCAMP). Natural communities are assigned state and global ranks according to their rarity and the magnitude and trend of the threats they face. Any natural community with a state rank of 3 or lower (on a 1 to 5 scale) is considered "sensitive" and must be considered in CEQA review. The Project site does not contain or adjoin any sensitive natural communities.[16] Therefore, **no impact** would occur and no mitigation measures are required.

c) *Would the project have a substantial adverse effect on state or federally protected wetlands as (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?*

**Less-Than-Significant Impact.** At the time of LOA's field survey, the Project site contained five areas of significant ponded water, all but one of which appeared to be fed by irrigation leaks. The remaining pond wasn't obviously being irrigated but is situated close to the almond orchard and has poorly-drained clay soils, suggesting it may capture and hold excess irrigation from the orchard. The ponds were inundated to varying degrees during the survey, with water depths ranging from roughly two to six inches. All were vegetated, and

16 Biological Evaluation Report for Lennar Homes Tract 6375 prepared by Live Oak Associates, Inc., page 20, August 2023, revised October 2024.

most supported vegetation typical of wetland environments.[17] Per the Biological Report while the ponds may meet the technical criteria of a wetland, the U.S. Army Corps of Engineers and CDFW are unlikely to assert jurisdiction over these features regardless of their wetland status. The features also do not appear to fit into any of the categories of artificial wetlands regulated by the Regional Water Quality Control Board (RWQCB), in that they are not (1) used as compensatory mitigation for impacts to other waters, (2) identified in a water quality control plan, (3) a relatively permanent part of the natural landscape, even in the absence of ongoing operation and maintenance, or (4) greater than or equal to one acre in size (SWRCB 2021). No other aquatic resources will be impacted by proposed residential buildout. Project impacts to state or federally protected wetland waters are therefore considered a **less-than-significant** impact and no mitigation measures are required.

d) *Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?*

**No Impact.** Wildlife corridors are typically considered to be valleys, ridgelines, and rivers and creeks supporting riparian vegetation that animals regularly travel or follow. According to the Biological Report, the Project site does not contain or adjoin any features likely to function as wildlife movement corridors.[18] Thus, **no impact** would occur and no mitigation measures are required.

e) *Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?*

**Less-Than-Significant Impact.** The 2014 General Plan and CMC support reduction of potential biological impacts with the Plan Area. Policy 2.6 of the Open Space and Conservation Element of the General Plan calls for the protection of biological resources; however, the Biological Evaluation did not identify the Project site as a high-quality habitat area. While trees will be removed from the Project site, the CMC includes tree protection standards for tree removal. Compliance with CMC tree removal requirements would result in a **less-than-significant** impact no mitigation measures are required.

f) *Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural community Conservation Plan, or other approved local, regional, or state habitat conservation plan?*

**No Impact.** There are no known Habitat Conservation Plans or Natural Community Conservation Plans for the Project vicinity[19]; thus, **no impact** would occur and no mitigation measures are required.

## 5. CULTURAL RESOURCES

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5? | | | | X |

17 Biological Evaluation Report for Lennar Homes Tract 6375 prepared by Live Oak Associates, Inc., page 9, August 2023, revised October 2024.

18 Biological Evaluation Report for Lennar Homes Tract 6375 prepared by Live Oak Associates, Inc., page 19, August 2023

19 Biological Evaluation Report for Lennar Homes Tract 6375 prepared by Live Oak Associates, Inc., page 34, August 2023

| | | | | |
|---|---|---|---|---|
| b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5? | | X | | |
| c. Disturb any human remains, including those interred outside of formal cemeteries? | | X | | |

**ENVIRONMENTAL SETTING**

The Project proposes to construct 385 single-family homes on a ±58.9 acre site. The Project site is vacant and undeveloped with active almond orchards, disked fields, and several previously occupied residential sites from which the structures and most of the trees were removed at some point in the past. The site is surrounded by existing and future residential development at varying densities. Any future development occurring within the annexation area would require a sperate project-specific analysis.

A Cultural Resource Study (Cultural Report) was prepared by Applied EarthWorks, Inc. dated November 2023 (see Appendix C). This Cultural Report included a records search at the California Historical Resources Information System (CHRIS) Southern San Joaquin Valley Information Center (SSJVIC), Native American Hertiage Commission's (NAHC) Sacred Lands File, desktop archival research, as well as a pedestrian survey of the Project site.

In addition to the Cultural Report, City staff conducted Native American Consultation in compliance with Assembly Bill 52 (AB52). In compliance with AB52, invitations for consultation were mailed on July 2, 2024 which affords Native tribes thirty (30) days to respond and to request consultation. During that time, one (1) tribe requested consultation. On September 30, 2024 a representative from Table Mountain Rancheria met with City staff via virtual call to discuss the potential for cultural resources at the Project annexation area. Following the meeting the representative from Table Mountain Rancheria voiced concerns for the potential sites of tribal significance. Based on the conversation while potential sites were within the annexation area, they were outside of the Project development site. However, mitigation measures are included in the following analysis to ensure protection of such resources if any are discovered inadvertently. With the incorporation of the mitigation measures, the consultation ended.

**DISCUSSION**

a) *Would the project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?*

**No Impact.** As part of the Cultural Report, the SSJVIC of the CHRIS at the California State University, Bakersfield preformed a records search on June 31, 2023, to identify previously recorded resources and prior surveys within the Project area and surrounding 0.25 mile search radius.[20] According to the results, there were four previous cultural resource investigations within the Project area and one previous investigation with the 0.25 mile radius site, the previous studies date from 1993 to 2018.[21] Additionally, as part of the Cultural Report historical topographic maps and aerial photographs were reviewed and a requested search of the Sacred Lands File was conducted by the NAHC on August 17, 2023.[22] According to Cultural Report no cultural resource sites

20 Cultural Resource Study for the Clovis Tract 6375 prepared by Applied Earthworks, Inc., page 14, November 2023.

21 Cultural Resource Study for the Clovis Tract 6375 prepared by Applied Earthworks, Inc., page 16, November 2023.

22 Cultural Resource Study for the Clovis Tract 6375 prepared by Applied Earthworks, Inc., page 17, November 2023.

were identified in the Project site.[23] Further, compliance with Policy 2.9 of the 2014 Clovis General Plan, which calls for the preservation of historical sites and buildings of state or national significance, would ensure that if there were historical resources present, they would be protected. Therefore, **no impact** would occur with regard to the Project causing a substantial adverse change in the significance of a historical resource and no mitigation measures are required.

b) *Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?*

**Less-Than-Significant Impact With Mitigation.** The site is undeveloped with the site's only have previously disturbed as a result of agriculture and previous rural residential structures. Further, the Cultural Report concluded that there were no cultural resources including potential historical resources were identified in the Project site. As mentioned above, City staff and a representative from Table Mountain Rancheria conducted a consultation where the tribal representative voiced concerns for cultural resources within the annexation boundary but not the Project site. However, the potential remains that archeological resources could be inadvertently or accidentally uncovered during ground-disturbing activities such as trenching, digging, and the installation of utilities and other infrastructure.

Because there is the slight possibility for the accidental or inadvertent uncovering of archaeological resources during construction, Mitigation Measure CULT-1 would serve to reduce those potential impacts by requiring the stopping of any work until any found artifacts can be properly removed and inventoried by a qualified archaeologist. Therefore, the Project would result in a **less-than-significant impact with mitigation**.

> Mitigation Measure CULT-1: If archaeological or tribal resources or materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.
>
> If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.
>
> If a potentially-eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met.

c) *Would the project disturb any human remains, including those interred outside of formal cemeteries?*

**Less-Than-Significant Impact With Mitigation.** As mentioned in the discussion for Section 5a the site is undeveloped with the site's only have previously disturbed as a result of agriculture and previous rural residential structures. The Cultural Report concluded no cultural resource sites were identified in the Project site. Nevertheless, the potential remains that human remains could be inadvertently or accidentally uncovered during ground-disturbing activities such as trenching, digging, and the installation of utilities and other infrastructure.

23 Cultural Resource Study for the Clovis Tract 6375 prepared by Applied Earthworks, Inc., page 23, November 2023.

Because there is the slight possibility for the accidental or inadvertent uncovering of human remains during construction, Mitigation Measure CULT-2 would serve to reduce those potential impacts by requiring the stopping of any work until any found human remains can be properly removed by the County coroner and/or tribes. Therefore, the Project would result in a **less-than-significant impact with mitigation**.

> Mitigation Measure CULT-2: If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code and Project shall follow the procedures and protocols set for un CEQA Guidelines Section 15064.4(e)(1). If human remains are identified to be those of Native American, California Health and Safety Code 7050.5 requires the County coroner notify the California Native American Heritage Commission within 24 hours of discovery. All reports, correspondence, and determinations regarding the discovery of human remains on the Project site shall be submitted to the Lead Agency.

## 6. ENERGY

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation? | | | X | |
| b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency? | | | X | |

### ENVIRONMENTAL SETTING

The existing Project site is vacant and undeveloped with active almond orchards, disked fields, and several previously occupied residential sites from which the structures and most of the trees were removed at some point in the past.. The site is surrounded by existing and future residential development at varying densities.

### DISCUSSION

a) *Would the project result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?*

**Less-Than-Significant Impact.** The Project proposes the construction of 385 single-family homes on ±58.9 acres, along with associated landscaping, hardscape, and infrastructure (i.e., drive aisles, utilities, etc.). The Project would include construction activities typical of residential development, thus, is not generally considered the type of use or intensity that would result in the unnecessary consumption of energy. The homes themselves would comply with Title 24 Green Building Standards for energy efficiency, as well as be required to comply with the latest water efficient landscape policy regulations, and California Building Code. Further, the Project would be required to comply with the2014 Clovis General Plan Policies 3.4, and 3.7 of the Open Space and Conservation Element, which call for the use of water conserving and drought tolerant landscape, as well as energy efficient buildings. Consequently, compliance with these measures would ensure that the Project does not result in a significant impact due to the unnecessary consumption of energy and **less-than-significant** impact would occur.

b) *Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?*

**Less-Than-Significant Impact.** See discussion under Section 6a above.

## 7. GEOLOGY AND SOILS

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: | | | | |
| i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? | | | | X |
| ii) Strong seismic ground shaking? | | | | X |
| iii) Seismic-related ground failure, including liquefaction? | | | | X |
| iv) Landslides? | | | | X |
| b. Result in substantial soil erosion or the loss of topsoil? | | | X | |
| c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse? | | | | X |
| d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property? | | | | X |
| e. Have soils incapable of adequately supporting the use of septic tanks or alternative waste disposal systems where sewers are not available for the disposal of wastewater? | | | | X |
| f. Directly or indirectly destroy a unique paleontological resource or unique geologic feature? | | X | | |

**ENVIRONMENTAL SETTING**

The 2014 Clovis General Plan EIR identified no geologic hazards or unstable soil conditions known to exist on the Project site.

**DISCUSSION**

a) *Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?; ii) Strong seismic ground shaking?; iii) Seismic-related ground failure, including liquefaction?; iv) Landslides?*

**No Impact.** Pursuant to the California Department of Conservation, the California Earthquake Hazards Zone Application mapping tool identifies the Project site as not within an Earthquake Fault Zone.[24] Additionally, adherence to the most current California Building Codes would ensure that the structures are constructed safely and in compliance with the appropriate Building Codes. With regards to liquefaction, the 2014 Clovis General Plan EIR states that the soil types in the area are not considered conducive to liquefaction due to their high clay content or from being too coarse.[25] Further, the site is generally flat and therefore landslides would not occur at the Project site. Overall, due to the Project site not being located within an earthquake fault zone, adherence to the most recent California Building Codes, and the flat topography, **no impact** would occur with regards to potential impacts from seismic activity and no mitigation measures are required.

b) *Would the project result in substantial soil erosion or the loss of topsoil?*

**Less-Than-Significant Impact.** Although the site is relatively flat, grading activities would be required to ensure a flat and graded surface prior to construction, which may result in the soil erosion and loss of topsoil. However, as part of the Project, grading plans are required to be submitted and approved by the City Engineering Division to ensure appropriate grading of the site. Thus, this review and approval process would ensure that a **less-than-significant** impact occur and no mitigation measures are required.

c) *Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?*

**No Impact** and no mitigation measures are required. See discussion under Section 7a.

d) *Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating direct or indirect substantial risks to life or property?*

**No Impact.** According to the 2014 Clovis General Plan EIR, expansive soils are mostly present in areas along the northern edge of the non- SOI and the easternmost part of the Clovis non-SOI plan area.[26] Because the Project site is within the City's SOI; therefore, not within the vicinity of those areas, there would be no potential for creating direct or indirect substantial risks to life or property with regards to expansive soils. As a result, **no impact** would occur and no mitigation measures are required.

24 California Department of Conservation, the California Earthquake Hazards Zone Application mapping tool, https://maps.conservation.ca.gov/cgs/EQZApp/app/ Accessed October 7, 2024

25 2014 Clovis General Plan EIR, Chapter 5: Geology and Soils, page 5.6-3.

26 2014 Clovis General Plan EIR, Chapter 5: Geology and Soils, page 5.6-4.

e) *Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste disposal systems where sewers are not available for the disposal of wastewater?*

**No Impact.** The Project does not propose the use of septic tanks; therefore, **no impact** would occur and no mitigation measures are required.

f) *Would the project directly or indirectly destroy a unique paleontological resource or unique geologic feature?*

**Less-Than-Significant Impact With Mitigation.** The Project site is vacant and undisturbed and the Cultural Report concluded that there are no cultural resources including potential historical resources identified in the Project site. Nevertheless, the possibility remains that the inadvertent or accidental discovery could occur during ground disturbing construction activities. However, Mitigation Measure GEO-1, below, would serve to protect the accidental discovery of paleontological resources. As such, a **less-than-significant with mitigation** impact would occur.

Mitigation Measure GEO-1: If prehistoric or historic-era cultural materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist and/or paleontologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.

If the qualified professional determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.

If a potentially-eligible resource is encountered, then the qualified professional archaeologist and/or paleontologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met.

## 8. GREENHOUSE GAS EMISSIONS

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? | | | X | |
| b. Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases? | | | X | |

## ENVIRONMENTAL SETTING

Gases that trap heat in the atmosphere are referred to as greenhouse gases (GHGs) because they capture heat radiated from the sun as it is reflected back into the atmosphere, much like a greenhouse does. The accumulation of GHG's has been implicated as a driving force for global climate change. Definitions of climate change vary between and across regulatory authorities and the scientific community, but in general can be described as the changing of the earth's climate caused by natural fluctuations and anthropogenic activities which alter the composition of the global atmosphere.

Individual Projects contribute to the cumulative effects of climate change by emitting GHGs during construction and operational phases. The principal GHGs are carbon dioxide, methane, nitrous oxide, ozone, and water vapor. While the presence of the primary GHGs in the atmosphere are naturally occurring, carbon dioxide (CO2), methane (CH4), and nitrous oxide (N2O) are largely emitted from human activities, accelerating the rate at which these compounds occur within earth's atmosphere. Carbon dioxide is the "reference gas" for climate change, meaning that emissions of GHGs are typically reported in "carbon dioxide-equivalent" measures. Emissions of carbon dioxide are largely by-products of fossil fuel combustion, whereas methane results from off-gassing associated with agricultural practices and landfills. Other GHGs, with much greater heat-absorption potential than carbon dioxide, include hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride, and are generated in certain industrial processes.

There is international scientific consensus that human-caused increases in GHGs have and will continue to contribute to global warming, although there is uncertainty concerning the magnitude and rate of the warming. Potential global warming impacts in California may include, but are not limited to, loss in snow pack, sea level rise, more extreme heat days per year, more high ozone days, more large forest fires, and more drought years. Secondary effects are likely to include a global rise in sea level, impacts to agriculture, changes in disease vectors, and changes in habitat and biodiversity.

In 2005, in recognition of California's vulnerability to the effects of climate change, Governor Schwarzenegger established Executive Order S-3-05, which sets forth a series of target dates by which statewide emission of greenhouse gases (GHG) would be progressively reduced, as follows: by 2010, reduce GHG emissions to 2000 levels; by 2020, reduce GHG emissions to 1990 levels; and by 2050, reduce GHG emissions to 80 percent below 1990 levels. In 2006, California passed the California Global Warming Solutions Act of 2006 (AB 32), which requires the CARB to design and implement emission limits, regulations, and other measures, such that feasible and cost-effective statewide GHG emissions are reduced to 1990 levels by 2020.

In December 2009, the SJVAPCD adopted guidance for addressing GHG impacts in its *Guidance for Valley Land Use Agencies in Addressing GHG Impacts for New Projects Under* CEQA. The guidance relies on performance-based standards, otherwise known as Best Performance Standards (BPS), to assess significance of project-specific GHG emissions on global climate change during the environmental review process.

Projects can reduce their GHG emission impacts to a less than significant level by implementing BPS. Projects can also demonstrate compliance with the requirements of AB 32 by demonstrating that their emissions achieve a 29% reduction below "business as usual" (BAU) levels. BAU is a projected GHG emissions inventory assuming no change in existing business practices and without considering implementation of any GHG emission reduction measures.

### *Significance Criteria*

The SJVAPCDs *Guidance for Valley Land Use Agencies in Addressing GHG Impacts for New Projects Under CEQA* provides initial screening criteria for climate change analyses, as well as draft guidance for the determination of significance.

The effects of project-specific GHG emissions are cumulative, and therefore climate change impacts are addressed as a cumulative, rather than a direct, impact. The guidance for determining significance of impacts has been developed from the requirements of AB 32. The guideline addresses the potential cumulative impacts that a project's GHG emissions could have on climate change. Since climate change is a global phenomenon, no direct impact would be identified for an individual land development project. The following criteria are used to evaluate whether a project would result in a significant impact for climate change impacts:

- Does the project comply with an adopted statewide, regional, or local plan for reduction or mitigation of GHG emissions? If no, then
- Does the project achieve 29% GHG reductions by using approved Best Performance Standards? If no, then
- Does the project achieve AB 32 targeted 29% GHG emission reductions compared with BAU?

Projects that meet one of these guidelines would have less than significant impact on the global climate.

In December 2022 the 2022 Scoping Plan was approved by the CARB which assesses progress toward achieving carbon neutrality by 2045. Because neither the City of Clovis or the SJVAPCD have developed or adopted numerical GHG significance threshold, the proposed Project was analyzed for consistency with the 2022 Scoping Plan consistent with statewide climate goals. The 2022 Scoping Plan includes key project attributes that reduce operational GHG emissions.

**DISCUSSION**

a) *Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?*

The Project would include the construction and operation of 385 single-family homes and associated infrastructure (i.e., sewer and water infrastructure, roadways, sidewalks, etc.). As such, GHG emissions would be produced through the construction and operational phases of the Project. As a result, an estimate of the Project's operational emissions in 2005 were compared to the operational emission in 2020 in order to determine if the Project meets the 29% emission reduction. Results of the analysis show that the Project's GHG emission in the year 2020 is 6253.23 MTCO2eq./year, which represents an achievement of 15% GHG emission reduction on the basis of BAU, which does not meet the 29% GHG emission reduction target.[27] Although, the Project does not meet the 29% GHG emission reduction, the 2022 Scoping Plan recommends that for determining whether a proposed residential or mixed-use residential development would align with the State's climate goals is to examine whether the project includes key project attributes that reduce operational GHG emissions while simultaneously advancing fair housing. With the implementation of recommended mitigation, the proposed Project is generally consistent with the key project attributes recommended in the 2022 Scoping Plan, as further discussed below.

The 2022 Scoping Plan recommends that project attributes consistent with specific priority strategies would accommodate growth in a manner consistent with State GHG reduction. The 2022 Scoping Plan recommends that a residential or mixed-use project provide EV charging infrastructure that, at minimum, meets the most ambitious voluntary standard in the California Green Building Standards Code at the time of project approval. CALGreen requires provision of infrastructure to accommodate EV chargers for new single family and attached dwelling units/town houses. It is not yet known whether the proposed project would include electric vehicle

27 Air Quality and Greenhouse Gas Analysis Report, VRPA Technologies, Inc, page 56, January 2024.

charging; therefore, implementation of Mitigation Measure GHG-1 would be required to ensure the proposed Project would provide electric vehicle charging.

The 2022 Scoping Plan further recommends that a proposed project be located on infill sites that are surrounded by existing urban uses and reuses or redevelops previously undeveloped or underutilized land that is presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer). The proposed Project is located in close proximity to other single-family residential uses that are presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer). The Project site and adjacent parcels have been identified for future development in the 2014 Clovis General Plan. CARB guidance recommends that, to be consistent with State goals, a proposed project should not result in the loss or conversion of natural and working lands. The Project site is not designated for farming-related activities under the 2014 Clovis General Plan as such would be consistent with the planned growth of the Heritage Grove area and as identified in the General Plan EIR; therefore, the proposed Project would be consistent with this key project attribute.

The proposed Project would also be generally consistent with the transit density criteria recommended in the 2022 Scoping Plan. The proposed Project would include an approximately 18-foot-wide parkway containing an approximately 5-foot-wide pedestrian sidewalk and a total of 13 feet of landscaping along North Minnewawa Avenue. Along Clovis Avenue the Project would include an approximately 20-foot-wide parkway containing an approximately 6-foot-wide pedestrian sidewalk and a total of 14 feet of landscaping. Additionally, the Project includes multiple direct pedestrian connections into the proposed Project that would support the ability to use alternative modes of transportation. As such, the project would promote initiatives to reduce vehicle trips and VMT and would increase the use of alternate means of transportation.

The 2022 Scoping Plan recommends that a proposed project reduce parking requirements by eliminating parking requirements or including maximum allowable parking ratios (i.e., the ratio of parking spaces to residential units or square feet); or providing residential parking supply at a ratio of less than one parking space per dwelling unit. The proposed Project would consist of 385 residential lots with construction of approximately 124 dedicated off-street parking spaces. Based on the minimal parking spaces when compared to the number of residential units, the proposed project would be consistent with this key project attribute. An additional State goal is to advance the availability of fair housing. The proposed project would help to address the California housing shortage and would increase the number of residences available to residents of the San Joaquin Valley. Finally, consistent with the recommendations in the 2022 Scoping Plan, the proposed Project would be all electric and not include natural gas connections.

With implementation of Mitigation Measures GHG-1 the Project would result in **less-than-significant impact with mitigation.**

> Mitigation Measure GHG-1: In order to meet the 2022 Scoping Plan GHG requirements, consistent with State GHG reduction and equity prioritization goals, each residential unit shall provide electric vehicle charging capabilities as part of the final project design.

b) *Would the project conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?*

**Less-Than-Significant Impact.** Based on the AQ/GHG Report,[28] as required by California law General Plans contain land use elements that detail types and quantities of land uses needed for future growth assumptions. Therefore, determination of consistency with a county/city's General Plan can be used to confirm that the Project's density and land use are consistent with the growth assumption used in the air quality plan. The Project

28 Air Quality and Greenhouse Gas Analysis Report, VRPA Technologies, Inc, page 58-59, January 2024.

is consistent with the currently adopted 2014 Clovis General Plan; therefore, is consistent with the growth assumptions under the applicable air quality plan and per the AQ/GHG Report, the Project will not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHG. As indicated in the discussion above under Section 8a, the Project would be required to comply with the latest energy efficient standards, and water conservation. Consequently, the AQ/GHG Report found this potential impact to be **less than significant**.

## 9. HAZARDS AND HAZARDOUS MATERIALS

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials? | | | X | |
| b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? | | | X | |
| c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? | | | | X |
| d. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? | | | | X |
| e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area? | | | | X |
| f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? | | | X | |
| g. Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires? | | | X | |

**ENVIRONMENTAL SETTING**

For purposes of this chapter, the term "hazardous materials" refers to both hazardous substances and hazardous wastes. A "hazardous material" is defined in the Code of Federal Regulations (CFR) as "substance or material that is capable of posing an unreasonable risk to health, safety, and property when transported in commerce" (49 CFR 171.8). California Health and Safety Code Section 25501 defines a hazardous material as follows:

"Hazardous material" means any material that, because of its quantity, concentration, or physical, or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment. "Hazardous materials" include, but are not limited to, hazardous substances, hazardous waste, and any material which a handler or the administering agency has a reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment. "Hazardous wastes" are defined in California Health and Safety Code Section 25141(b) as wastes that: …because of their quantity, concentration, or physical, chemical, or infectious characteristics, [may either] cause or significantly contribute to an increase in mortality or an increase in serious illness, or pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of, or otherwise managed.

The nearest school to the Project site is Woods Elementary School, located approximately one (1) mile southeast of the site at its closest point.

**DISCUSSION**

a) *Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?*

**Less-Than-Significant Impact.** The Project consists of the construction of 385 single-family homes on ±58.9 acres. The type of hazardous materials that would be associated with the Project are those typical of residential uses, such as the use of household cleaners, landscape maintenance products, soaps, and potential pesticides (for pest control). These materials, when used and applied properly, would not necessarily create a significant hazard to the public or the environment. Further, these materials are not anticipated to be stored in large quantities that could pose a threat. Overall, the Project would not routinely transport, use, or dispose of hazardous materials other than those typical of residential development, which are not generally considered of the type or quantity that would pose a significant hazard to the public when used as directed. During construction, typical equipment and materials would be used that are associated with residential construction; however, any chemicals or materials would be handled, stored, disposed of, and/or transported according to applicable laws. Consequently, because the Project is not of the type of use that would routinely transport, use, or dispose of hazardous materials a **less-than-significant** impact would occur.

b) *Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?*

**Less-Than-Significant Impact.** See discussion above under Section 9a.

c) *Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?*

**No Impact.** As mentioned above, the Project site is located approximately one (1) mile from the nearest school and there is not currently any proposed schools within the Project area. Further, the Project is not of the type of use typically associated with emitting hazardous emissions or handling the type or quantity of hazardous

materials such that it would pose a risk or threat to the school, or surrounding area. Therefore, **no impact** would occur and no mitigation measures are required.

d) *Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?*

**No Impact.** According the California Department of Toxic Substance Control EnviroStor Database, the Project site is not located on or within the immediate vicinity of a hazardous materials site.[29] Therefore, **no impact** would occur and no mitigation measure are required.

e) *For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?*

**No Impact.** The Project is not within an airport land use plan nor is the site within two miles of a public airport. Therefore, **no impact** would occur and no mitigation measures are required.

f) *Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?*

**Less-Than-Significant Impact.** The Project will develop frontage portions of North Clovis and North Minnewawa Avenues which are designated by the 2014 Clovis General Plan as arterials ultimately connecting the internal street network. Although the Project could result in temporary traffic detouring or closures during buildout, these delays would be temporary and would be coordinated with the City Planning and Development Services and other departments to ensure safe access to and from the area is maintained. Further, the site itself would reviewed by City departments to ensure adequate site access and circulation is provided in the event of an emergency. Overall, a **less-than-significant** impact would occur.

g) *Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?*

**Less-Than-Significant Impact.** The Project site it is not located in an area typically associated with wildfires. Although urban fires could occur, the Project would be constructed to the latest fire code standards, which would include fire sprinklers in each unit, as well as the installation of several fire hydrants throughout the site as required by the Clovis Fire Department. Further, other life safety features would be required such as smoke detectors, which would be reviewed and checked by the Fire Department to ensure proper operation prior to occupancy. Ultimately, a **less-than-significant** impact would occur.

## 10. HYDROLOGY AND WATER QUALITY

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality? | | | X | |

29 California Department of Toxic Substance Control, EnviroStor Database, https://www.envirostor.dtsc.ca.gov/public/map/?myaddress=Clovis, accessed on October 7, 2024

| | | | | |
|---|---|---|---|---|
| b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin? | | | X | |
| c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: (i) result in substantial erosion or siltation on- or off-site; (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; (iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or (iv) impede or redirect flood flows? | | | X | |
| i) Result in substantial erosion or siltation on- or off-site? | | | X | |
| ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite? | | | X | |
| iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff? | | | X | |
| iv) Impede or redirect flood flows? | | | X | |
| d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation? | | | X | |
| e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? | | | X | |

**ENVIRONMENTAL SETTING**

The City is within the drainages of three streams: Dry Creek, Dog Creek, and Redbank Slough. On the north, Dry Creek discharges into the Herndon Canal in the City of Fresno west of Clovis. South of Dry Creek, Dog Creek is a tributary of Redbank Slough, which discharges into Mill Ditch south of Clovis (USGS 2012). A network of storm drains in the City and the Plan Area discharges into 31 retention basins, most of which provide drainage for a one- to two-square-mile area. Most of the Plan Area east and northeast of the City is not in drainage areas served by retention basins. Those areas drain to streams that discharge into reservoirs, including Big Dry Creek Reservoir in the north-central part of the Plan Area and Redbank Creek Dam and Reservoir in the southeast part of the Plan Area. Fancher Creek Dam and Reservoir are near the east Plan Area boundary.

The Project is located within the FMFCD boundary, and subject to its standards and regulations. Detention and retention basins in the FMFCD's flood control system are sized to accommodate stormwater from each basin's drainage area in builtout condition. The current capacity standard for FMFCD basins is to contain runoff from six inches of rainfall during a ten-day period and to infiltrate about 75 to 80 percent of annual rainfall into the groundwater basin (Rourke 2014). Basins are highly effective at reducing average concentrations of a broad range of contaminants, including several polyaromatic hydrocarbons, total suspended solids, and most metals (FMFCD 2013). Pollutants are removed by filtration through soil, and thus don't reach the groundwater aquifer (FMFCD 2014). Basins are built to design criteria exceeding statewide Standard Urban Stormwater Mitigation Plan (SUSMP) standards (FMFCD 2013). The urban flood control system provides treatment for all types of development—not just the specific categories of development defined in a SUSMP—thus providing greater water quality protection for surface water and groundwater than does a SUSMP.

In addition to their flood control and water quality functions, many FMFCD basins are used for groundwater recharge with imported surface water during the dry season through contracts with the FID and the cities of Fresno and Clovis; such recharge totaled 48,139 acre feet of water in 2020.

The pipeline collection system in the urban flood control system is designed to convey the peak flow rate from a two-year storm.

Most drainage areas in the urban flood control system do not discharge to other water bodies, and drain mostly through infiltration into groundwater. When necessary, FMFCD can move water from a basin in one such drainage area to a second such basin by pumping water into a street and letting water flow in curb and gutter to a storm drain inlet in an adjoining drainage area (Rourke 2014). Two FMFCD drainage areas discharge directly to the San Joaquin River, and three to an irrigation canal, without storage in a basin. Six drainage areas containing basins discharge to the San Joaquin River, and another 39 basins discharge to canals (FMFCD 2013).

A proposed development that would construct more impervious area on its project site than the affected detention/retention basin is sized to accommodate is required to infiltrate some stormwater onsite, such as through an onsite detention basin or drainage swales (Rourke 2014).

The Big Dry Creek Reservoir has a total storage capacity of about 30 thousand acre-feet (taf) and controls up to 230-year flood flows. Fancher Creek Dam and Reservoir hold up to 9.7 taf and controls up to 200-year flood flows. Redbank Creek Dam and Reservoir hold up to 1 taf and controls up to 200-year flood flows.

***Groundwater***

Clovis is underlain by the Kings Groundwater Basin that spans 1,530 square miles of central Fresno County and small areas of northern Kings and Tulare counties. Figure 5.9-4, Kings Groundwater Basin, shows that the basin is bounded on the north by the San Joaquin River, on the west by the Delta-Mendota and Westside Subbasins, the south by the Kings River South Fork and the Empire West Side Irrigation District, and on the east by the Sierra Nevada foothills. Depth to groundwater in 2016 ranged from 196.5 feet at the northwest City boundary to 69.5 feet at the southeast City boundary (Clovis 2016), 25 feet at the southeast SOI boundary, and about 20 feet at the eastern Plan Area boundary (FID 2013). The Kings Subbasin has been identified as critically overdrafted (Provost & Pritchard 2011).

In the Plan Area, groundwater levels are monitored by the City of Clovis and FID. The overall area has not experienced land subsidence due to groundwater pumping since the early 1900s (FID 2006). Subsidence occurs when underground water or natural resources (e.g., oil) are pumped to the extent that the ground elevation lowers. No significant land subsidence is known to have occurred in the last 50 years as a result of

land development, water resources development, groundwater pumping, or oil drilling (FID 2006). The City has identified a localized area of subsidence of 0.6 feet in the vicinity of Minnewawa and Herndon Avenues within the last 14 years (Clovis 2016). Regional ground subsidence in the Plan Area was mapped as less than one foot by the US Geological Survey in 1999 (Galloway and Riley 1999). Groundwater levels in the San Joaquin Valley are forecast to hit an all-time low in 2014 (UCCHM 2014).

New development in accordance with the 2014 Clovis General Plan would increase the amount of impervious surface in the Plan Area, potentially affecting the amount of surface water that filters into the groundwater supply. Groundwater levels are monitored in the Plan Area by the FID and the City of Clovis. As described in the 2015 City of Clovis Urban Water Management Plan (UWMP), groundwater recharge occurs both naturally and artificially throughout the City. The Kings Groundwater Basin area is recharged through a joint effort between the Cities of Clovis and Fresno and the FID (CDWR 2006). Approximately 8,400 acre-feet per year (afy) of water are intentionally recharged into the Kings Groundwater Basin by the City of Clovis, and approximately 7,700 afy of water naturally flow into groundwater in the City's boundaries (Clovis 2011).

The FMFCD urban stormwater drainage system would provide groundwater infiltration for runoff from developed land uses in detention basins in the drainage system service area.

Projects pursuant to the 2014 Clovis General Plan and developed outside of the FMFCD urban stormwater drainage system would be required to meet the requirements of NPDES regulations, including the implementation of BMPs to improve water retention and vegetation on project sites.

**DISCUSSION**

a) *Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?*

**Less-Than-Significant Impact.** The Project is located on a site that was previously anticipated for residential use. As with any development, existing policies and standards are required to be complied with, which are assessed during review of the entitlements. As such, the Engineering Division, as well as outside agencies such as the FMFCD review all plans to ensure that none of the water quality standards are violated and that waste discharge requirements are adhered to during construction and operation of the Project. Consequently, this process of Project review and approval would ensure that a **less-than-significant** impact occur.

b) *Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?*

**Less-Than-Significant Impact.** The Project would not deplete groundwater supplies or interfere with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level due to the Project. The 2014 Clovis General Plan EIR identified a net decrease in ground water aquifer throughout the region, however, because the City's domestic water system is primarily served through surface water via existing water entitlements, the loss of aquifer is less than significant. The City has developed a surface water treatment plant (opened in June, 2004) that reduces the need for pumped groundwater, and has also expanded the municipal groundwater recharge facility. The Projects impacts to groundwater are **less than significant**.

c) *Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would: (i) result in substantial erosion or siltation on- or off-site; (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; (iii) create or contribute runoff water which would exceed*

*the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or (iv) impede or redirect flood flows?*

**Less-Than-Significant Impact.** There are no streams or rivers on the site that would be altered as a result of the Project. The site is mostly pervious since it is currently undeveloped, and as a result, the Project would increase the amount of impervious surfaces by installing paving for roadways and sidewalks. However, the drainage pattern would be constructed per existing policies and regulations through review of the plans by the City Engineering Division and the FMFCD to ensure the site is properly and adequately drained such that the stormdrain system is maintained and so that no flooding occurs. Consequently, this review and approval by City engineers and FMFCD would mean that the Project result in a **less-than-significant** impact.

d) *Would the project, in flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?*

**Less-Than-Significant Impact.** Due to the Central Valley's location away from the ocean, an impact from a tsunami is unlikely. However, the majority of the Project site is designated as a Federal Emergency Management Agency (FEMA) Flood Zone "X"[30] which is considered by FEMA as a non-special flood hazard area and that the risk of a flood is low-risk. A Flood Zone X has a 0.2 percent-annual-chance of flood. The CMC Section 8.12, Floodplain Management lists standards and requirements for new construction within special flood zones; therefore, the Project would implement flood hazard management as required by the CMC. As a result of adhering to required flood hazard management, the Project would not risk the release of pollutants due to inundation and consequently, the Project would result in a **less-than-significant** impact would occur with no mitigation measures.

e) *Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?*

**Less-Than-Significant Impact.** The City of Clovis is within the North Kings County Groundwater Sustainability Agency (GSA). Pursuant to the Sustainable Groundwater Management Act of 2014 (SGMA), certain regions in California are required to develop and implement a groundwater management plan that sustainably manages groundwater resources. The proposed Project would comply with the 2020 City of Clovis UWMP which promotes programs and policies to manage water supplies. Nevertheless, the Project would derive the majority of its water from surface water sources and does not propose or include plans for groundwater use. With regards to water quality control, the Project would be required to adhere to appropriate storm drain conveyance and the protection of water resources which would include the installation of backflow preventers. Consequently, the Project would result in a **less-than-significant** impact with no mitigation measures.

## 11. LAND USE AND PLANNING

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Physically divide an existing community? | | | X | |
| b. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding | | | X | |

30 FEMA Flood Map Service Center: Search By Address, https://msc.fema.gov/portal/search?AddressQuery=clovis, accessed on October 8, 2024

| | | | | |
|---|---|---|---|---|
| or mitigating an environmental effect? | | | | |

**ENVIRONMENTAL SETTING**

The Project site consists of active almond orchards, disked fields, and several previously occupied residential sites from which the structures and most of the trees were removed at some point in the past. and is surrounded by residential development in varying densities.

**DISCUSSION**

a) *Would the project physically divide an existing community?*

**Less-Than-Significant Impact.** Although the Project site is currently undeveloped, the general area to the south and east is urbanized with residential uses of varying densities. Typically, physically dividing existing communities is associated with the construction of a new road intersecting an established area or introducing uses that are not necessarily in line with the existing uses and planned land uses of the area. However, the Project site has been previously designated in the 2014 Clovis General Plan for residential use.

Consequently, because the proposed Project is the type of use previously planned for this site and the general areas, it would not physically divide an existing community. Rather, it seeks to add new housing stock to the City with installation of a new public sidewalk and roadway infrastructure. Therefore, a **less-than-significant** impact would occur and no mitigation measures are required.

b) *Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?*

**Less-Than-Significant Impact.** As mentioned in the Existing Setting Section above, the Project site is currently within the County of Fresno jurisdiction and zoned AE20 (Exclusive Agricultural). However, the Project site will be prezoned to the R-1-PRD (Single-Family Planned Residential Development) Zone District. According to Section 9.10.010(B)(5) of the CMC, the R-1-PRD Zone District identifies areas appropriate for single-family small lot uses, including attached and detached single-family structures on small lots. If approved, the Project will be required to go through the RSPR entitlement process for review for compliance with relevant design policies, such as in the Heritage Grove Master Plan, the CMC, and the 2014 General Plan. During the review, the height, color and materials are reviewed for consistency with these plans and guidelines. As a result of the Project in complying with the land use and zoning designation upon approval, as well as the review process ensuring General Plan and other applicable policies are adhered to, the Project would result in a **less-than-significant** impact with regards to conflicting with a land use plan.

**12. MINERAL RESOURCES**

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? | | | | X |
| b. Result in the loss of availability of a locally important mineral resource recovery site delineated | | | | X |

| | | | | |
|---|---|---|---|---|
| on a local general plan, specific plan or other land use plan? | | | | |

**ENVIRONMENTAL SETTING**

The City of Clovis 2014 General Plan EIR defines minerals as any naturally occurring chemical elements or compounds formed from inorganic processes and organic substances.[31] The 2014 Clovis General Plan EIR indicates that there are no active mines or inactive mines within the Plan Area of the City of Clovis.

**DISCUSSION**

a) *Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?*

**No Impact.** As stated above, the City of Clovis does not have any active mines or inactive mines. Further, the Project site is not designated, or otherwise mapped for mineral resource extraction, or for having mineral resources of value to the region present on or below the surface of the site. Therefore, **no impact** would occur and no mitigation measures are required.

b) *Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?*

**No Impact.** Please refer to the discussion under Section 12.a.

**13. NOISE**

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? | | X | | |
| b. Generation of excessive groundborne vibration or groundborne noise levels? | | | X | |
| c. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? | | | | X |

31 2014 Clovis General Plan EIR, Chapter 5: Mineral Resources, page 5.11-1.

## ENVIRONMENTAL SETTING

The Project site is undeveloped and surrounded by residential development, including existing residential to the south and east with residential development under entitlement processing to the north. As such, existing ambient noise levels are typical of those associated with residential development, such as the sound of vehicles passing by, the sound of talking, and recreating could be expected within the Project vicinity. As a result of construction to the south, existing ambient noise levels may be slightly elevated as a result of the use of construction equipment, such as large trucks, tractors, and other construction tools associated with residential development. These increases would be temporary, however, and would cease upon completion of the neighborhood.

An acoustical analysis (Noise Study) was prepared for the Project by WJV Acoustics on March 14, 2024 and the analysis below is based, in part, on the study. As part of the Noise Study, noise exposure from traffic on North Minnewawa Avenue was calculated for future (2046) conditions using the Federal Highway Administration (FHWA) Highway Traffic Noise Prediction Model. The Noise Study can be found in Appendix D of this Initial Study.

## DISCUSSION

a) *Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?*

**Less-Than-Significant Impact With Mitigation.** The Project would include development of 385 single-family homes on an undeveloped site. Thus, the Project would result in a temporary and permanent increase in ambient noise levels as a result of construction and operation. However, as mentioned above, the Project site will be surrounded by residential development of varying densities. The Project would introduce new ambient noise from the construction and operation of the homes, these noises would represent the typical type of noise levels that is expected for a planned residential land use. While increases in ambient noise would occur due to the construction of the Project, this increase would be temporary and would be required to adhere to local regulations limiting the hours of construction.

The CMC Section 9.22.080, Noise, sets forth noise standards for development which would need to be complied with. For example, construction would only be permitted between the hours of 7:00 a.m. and 7:00 p.m. on weekdays, and between 9:00 a.m. and 5:00 p.m. on weekends. However, between June 1 and September 15, construction may begin at 6:00 a.m. on weekdays.

The Noise Study indicated that exterior traffic noise exposure at the closest proposed lots to Minnewawa Avenue would be approximately 65.3 dB CNEL for existing conditions and 63.1 dB CNEL for future (2046) traffic conditions.[32] As such, the existing exterior noise exposure would exceed the City's exterior noise level of 65 dB CNEL. The Noise Study indicated that the worst-case interior noise exposure within the proposed Project would be approximately 65 dB CNEL, which exceeds the City's standard of 45 dB CNEL for interior noise; however, the mitigation measures below would reduce these impacts sufficiently to meet the City standards for noise. Consequently, a **less-than-significant impact with mitigation** would occur.

> Mitigation Measure NOISE-1: Exterior Noise. A sound wall shall be constructed to a minimum height of six (6) feet above Project-side grade along North Minnewawa Avenue. In order for the sound wall to effectively shield noise, where there will be access to the development from North Minnewawa Avenue, the sound walls will need to be turned inward (eastward) for a distance of approximately twenty (20) feet

32 Acoustical Analysis Tract 6452, VJV Acoustics, Inc, page 9, March 2024.

at roadway access points. Other Project design features that satisfy the City's exterior noise exposure noise level may fulfill this mitigation.

Mitigation Measure NOISE-2: Interior Noise. Mechanical ventilation or air conditioning shall be provided for all homes to enable windows and doors to remain closed for sound insulation purposes.

b) *Would the project result in generation of excessive groundborne vibration or groundborne noise levels?*

**Less-Than Significant Impact.** The Project includes development of 385 single-family homes and associated infrastructure (i.e., sidewalks, roadways, curb, gutter, stormdrains, etc.). Therefore, construction equipment typical of the development of residential homes would be utilized temporarily. This equipment could include the use of heavy tractors, trucks, and other equipment; however, this type of equipment isn't typically associated with excessive groundborne vibration. If any vibration were to occur, it's likely that it would be temporary in nature and not at levels that would significantly impact the surrounding area. Further, the Project would be required to comply with the provisions of Section 9.22.090 of the CMC which requires that vibration not be perceptible along property lines and that it shall not interfere with operations or facilities on adjoining parcels. It's important to note also that temporary construction vibration and noise is exempt from these provisions due to the fact that construction is temporary. Overall, because the type of equipment likely to be used in the development of the Project is not considered to be of the type and intensity to result in substantial vibration or groundborne noise, the impact would be **less-than-significant** and no mitigation measures are required.

c) *For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?*

**No Impact.** The Project is not located within the vicinity of a private airstrip or within an airport land use plan nor is the site within two miles a public airport. Therefore, **no impact** would occur and no mitigation measures are required.

## 14. POPULATION AND HOUSING

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example through extension of roads or other infrastructure)? | | | X | |
| b. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? | | | | X |

### ENVIRONMENTAL SETTING

The Project is located on an undeveloped site that is planned for residential use in the 2014 Clovis General Plan. The Project site is ±58.9 acres and proposes 385 single family homes. As previously mentioned, the site will be prezoned to the R-1-PRD (Single-Family Planned Residential Development) Zone District. According to

Section 9.10.010(B)(5) of the CMC, the R-1-PRD Zone District identifies areas appropriate for single-family small lot uses, including attached and detached single-family structures on small lots.

**DISCUSSION**

a) *Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example through extension of roads or other infrastructure)?*

**Less-Than-Significant Impact.** The Project would result in 385 single family homes. The Project site has the General Plan Land Use designation of Medium Density Residential, which allows for a density range of 4.1 to 7.0 DU/AC. According to the 2014 Clovis General Plan, the Medium Density Residential designation is intended for detached and attached single family homes, patio homes, or zero lot lines. Calculated with net acres the Project site would allow a range of 242 to 412 dwelling units. Thus, the Project is consistent with the planned land use designation. Further, the Project includes residential use on a site that is planned for the type of use being proposed. Unplanned population growth is typically associated with providing new services in remote areas of the City or other infrastructure that was not previously identified in the General Plan. Although the Project would result in new housing units and population to the site, this growth was previously planned and anticipated under the 2014 Clovis General Plan. Thus, a **less-than-significant** impact would occur and no mitigation measures are required.

b) *Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?*

**No Impact.** The Project site is undeveloped; therefore, **no impact** would occur and no mitigation measure are required.

**15. PUBLIC SERVICES**

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| *Would the Project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:* | | | | |
| a. Fire protection? | | | X | |
| b. Police protection? | | | X | |
| c. Schools? | | | X | |
| d. Parks? | | | X | |
| e. Other public facilities? | | | X | |

**ENVIRONMENTAL SETTING**

The Project would be served by the Clovis Fire Department, Clovis Police Department, with mutual aid from the City of Fresno, when needed. The Project site would also be within the Clovis Unified School District.

The nearest fire station is Fire Station #3, located approximately three (3) miles south of the site. The other closest fire station is Fire Station #5, located approximately four (4) miles to southwest of the site.

## DISCUSSION

a) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for fire protection services?*

**Less-Than-Significant Impact.** Although the Project would result in 385 new residential homes, the site is located adjacent to the City which is already served by the Clovis Fire Department. Upon annexation the Project will then be located in an area the City will be able to serve. Also, the site itself is in close proximity to Fire Station's #3 and #5, which would mean that response times should be able to be maintained during calls for service. As part of the entitlement process for the Project, the Clovis Fire Department will review the design and site layout to ensure adequate fire safety measures and site circulation are achieved. This would include placement of new fire hydrants in certain locations throughout the site, adequate drive widths for fire truck and emergency vehicle access, and the appropriate application of fire codes, such as installation of sprinkler systems, fire alarms, and smoke detectors. Overall, with the site's close proximity to numerous fire stations, construction that would meet the latest fire code standards, and review by the Clovis Fire Department, impacts related to effects on the performance of the Fire Department would be **less-than-significant** and no mitigation measures are required.

b) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for police protection services?*

**Less-Than-Significant Impact.** Although the Project would result in 385 new residential homes, the site is located adjacent to the City which is already served by the Clovis Police Department. Upon annexation the Project will then located in an area the City will able to serve. The Clovis Police Department headquarters are located at 1233 Fifth Street, which is approximately five (5) miles from the site. As part of the entitlement process for the Project, the Clovis Police Department will review the design and site layout to ensure adequate safety measures are achieved. Consequently, a **less-than-significant** impact would occur and no mitigation measures are required.

c) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for schools?*

**Less-Than-Significant Impact.** As part of the review process, CUSD is provided the opportunity to comment and work closely with the City as development is proposed. As mentioned previously, the Project site was previously planned for residential development, as indicated in the 2014 Clovis General Plan. As such, the CUSD has been aware of the potential for this type of development at this location. As part of the process, the Project would be required to pay school fees which typically go towards the improvement and/or construction of new schools or expanding existing schools if and when needed, as determined by the CUSD. Therefore, because the Project is consistent with what was previously planned for at this site in addition to payment of appropriate school fees set by the CUSD, a **less-than-significant** impact would occur and no mitigation measures are required.

d) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for parks?*

**Less-Than-Significant Impact.** Although the Project proposes two (2) pocket parks for a total of approximately 46,637 square feet of park space, these parks would not cause significant environmental impacts in order to maintain acceptable service ratios, response times or other performance objectives for parks. Consequently, a **less-than-significant** impact would occur and no mitigation measures are required.

e) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for other public facilities?*

**Less-Than-Significant Impact.** Although the Project would result in 385 new residential homes, residential uses have been previously planned for in the 2014 Clovis General Plan in this area. Also, through the entitlement process, the Project would undergo review by several departments and agencies for compliance with appropriate regulations and policies. This could result in various impact fees that are intended to maintain and enhance public facilities as appropriate to be able to accommodate the Project. As such, payment of the typical development fees, as well as project review by the different department and agencies, would result in the Project having a **less-than-significant** impact to public facilities. No mitigation measures are required.

**16. RECREATION**

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? | | | X | |
| b. Does the project include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment? | | | X | |

**ENVIRONMENTAL SETTING**

The nearest existing recreational site is Dry Creek Trailhead, located at the corner of Shepherd and Sunnyside Avenues. A future community park is planned approximately one (1) mile southwest of the Project site.

**DISCUSSION**

a) *Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?*

**Less-Than-Significant Impact.** As mentioned in the Population and Housing section of this Initial Study, the Project is of the type previously planned and accounted for in the 2014 Clovis General Plan. Although 385 new housing units would be constructed, therefore, adding new population to the area that may utilize parks within the surrounding area, this growth was planned for with regards to park usage throughout the City. Further, the Project itself would include landscaped and open space areas on-site for its residents, as well as two (2) pocket parks within the neighborhood, thereby, providing areas of recreation within the site itself. The Project would also be required to comply with 2014 Clovis General Plan Policy 2.2 of the Open Space and Conservation Element which encourages the incorporation of on-site natural resources.

Overall, the Project is not likely to increase the use of existing parks such that physical deterioration would occur. Therefore, the impact would be **less-than-significant** and no mitigation measures are required.

b) *Does the project include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?*

**Less-Than-Significant Impact.** The Project site itself would construct two (2) on-site pocket parks. The Project itself would not require the construction or expansion of new recreational facilities elsewhere that would have an adverse physical effect on the environment. The Project would also be required to contribute a proportionate share towards the acquisition and development of future parks in order for the City to maintain its adopted ratio of providing four (4) acres of parkland per 1,000 residents, as stated in Policy 1.1 in the Open Space and Conservation Element of the 2014 Clovis General Plan, and Section 3.4.03 of the CMC. As such, a **less-than-significant** impact would occur and no mitigation measures are required.

## 17. TRANSPORTATION

| Would the project: | Significant and Unavoidable | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities? | | | X | |
| b. Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)? | X | | | |
| c. Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? | | | X | |
| d. Result in inadequate emergency access? | | | X | |

### ENVIRONMENTAL SETTING

The Project site is bounded by North Minnewawa Avenue to the west and North Clovis Avenue to the east. The circulation network serving the site including internal site circulation will be constructed as part of the Project.

According to the 2014 Clovis General Plan Circulation Diagram in the Circulation Element (Figure C-1 of the Circulation Element), North Minnewawa and North Clovis Avenues are classified as “arterial” streets. Arterials

are generally defined as major streets designed to carry relatively heavy volumes of traffic through an urban area.

A Transportation Impact Analysis (TIA) was prepared by Peters Engineering Group on December 21, 2023 (included as Appendix E of this Initial Study). The information and analysis in the following sections is based in part on the results of the TIA.

**DISCUSSION**

a) *Would the project conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?*

**Less-Than-Significant Impact.** As mentioned above, the Project site is on land that was previously planned for residential use in the 2014 Clovis General Plan. As described in the Population and Housing section above, the Project will be consistent with the planned medium density.

The TIA studied the following eight (8) intersections for existing conditions, existing-plus-project conditions, near term with project conditions, and cumulative conditions to the year 2045:

1) Willow Avenue / International Avenue
2) Minnewawa Avenue / International Avenue
3) Willow Avenue / Behymer Avenue
4) Minnewawa Avenue / Behymer Avenue
5) Minnewawa Avenue / Shepherd Avenue
6) DeWitt Avenue / Shepherd Avenue
7) Clovis Avenue / Shepherd Avenue
8) Clovis Avenue / Site Access Street (left turn in)

A discussion of each of these scenarios is included below. Based on the TIA, existing traffic volumes were determined during morning peak hours of 7:00 a.m. to 9:00 a.m., and between evening peak hours of 4:00 p.m. and 6:00 p.m. on a weekday. Each scenario is based on the Projects a.m. and p.m. peak hour trips as determined in the TIS. According to the TIS, the Project would result in 271 trips in the a.m. peak hours of between 7:00 a.m. and 9:00 a.m. and 364 trips in the p.m. peak hours between 4:00 p.m. and 6:00 p.m., as well as a total of 3,650 daily vehicle trips.

Existing Traffic Conditions

According to the TIA, most study intersections are operating at acceptable levels of service (LOS) except for Minnewawa and Behymer Avenues which is not currently operating at an acceptable LOS based on City of Clovis standards.[33]

Existing-Plus-Project Conditions

Existing-Plus-Project conditions represent existing conditions plus buildout of the Project if none of the pending and approved project in the vicinity were constructed. According to the TIA, all intersections currently operating at an acceptable LOS are not expected to operate below the City LOS standard.[34] Delays are expected to increase at the intersection of Minnewawa and Behymer Avenues.

33 Transportation Impact Analysis, Proposed Tract No. 6452, Peters Engineering Group, December 21, 2023 page 16.
34 Transportation Impact Analysis, Proposed Tract No. 6452, Peters Engineering Group, December 21, 2023 page 17.

In order for the intersection of Minnewawa and Behymer Avenues to operate at an acceptable LOS, the intersection may be signalized or at a minimum a dedicated left-turn lanes with protected left-turn phasing would be required on the northbound and southbound approaches. With signalization this intersection is expected to operate at LOS B during a.m. and p.m. peak hours. [35]

Near-Term-With-Project Conditions

These conditions are based on buildout of the Project plus the near term planned or entitled projects that are reasonably foreseeable. The following projects were considered in the near-term analyses TM6205 605 single family homes (NE of Shepherd and Sunnyside), TM6343 590 single family homes (NE of Behymer and Baron), TM6406 51 single family homes (SW of Perrin and Baron), TM6452 153 single family homes (NE of Perrin and Baron), and Heritage Grove, 18-acre mixed use development (SE of Willow and Shepherd). Under this scenario, the intersections of Minnewawa and Behymer Avenues, Minnewawa and International Avenues, and Minnewawa and Shepherd Avenues would not meet acceptable LOS thresholds per City standards during peak hours.[36]

In order for the intersection of Minnewawa and Behymer Avenues to operate at an acceptable LOS the same improved condition as outlined above in the Existing-Plus-Project Conditions summary is recommended. In order for the intersection of Minnewawa and International Avenues to operate at an acceptable LOS, all-way stop control may be installed. With all-way stop the intersection is expected to operate at LOS B during the a.m. and p.m. peak hours. In order for the intersection of Minnewawa and Shepherd Avenues to operate at an acceptable LOS, the westbound, northbound, and southbound approaches may be widened. With widening of the intersection of Minnewawa and Shepherd Avenues is expected to operate at LOS C during the a.m. peak hour and LOS D during the p.m. peak hour.[37]

Cumulative 2045 Traffic Conditions

These conditions represent anticipated traffic volumes for the year 2045 using the Fresno Council of Governments (Fresno COG) travel model. As described in the TIS, four (4) of the study intersections would operate at an acceptable LOS for the year 2045; however, with incorporation of improved conditions for intersections that fall below the recommended LOS each intersection will operate at an acceptable LOS. [38]

Bicycle Facilities

With regards to bicycle facilities, Figure C-2 of the 2014 Clovis General Plan indicates a planned Class II bicycle systems fronting the Project along N. Minnewawa and N. Clovis Avenues. The Project would install the planned Class II bicycle systems along their frontages which would help to facilitate improved circulation.

The traffic conditions above recommend improvements for each study intersection. With incorporation of improvements recommended for each scenario all study intersections will operate at satisfactory LOS levels thus, the Project, will not conflict with the Circulation Element of the 2014 Clovis General Plan. Consequently, a **less-than-significant** impact would occur. No mitigation measures are required.

35 Transportation Impact Analysis, Proposed Tract No. 6452, Peters Engineering Group, December 21, 2023 page 17.

36 Transportation Impact Analysis, Proposed Tract No. 6452, Peters Engineering Group, December 21, 2023 page 18-19.

37 Transportation Impact Analysis, Proposed Tract No. 6452, Peters Engineering Group, December 21, 2023 page 20-21.

38 Transportation Impact Analysis, Proposed Tract No. 6452, Peters Engineering Group, December 21, 2023 page 20-22

b) *Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?*

**Significant and Unavoidable Impact.** Senate Bill 743 (SB 743) requires that relevant CEQA analysis of transportation impacts be conducted using a metric known as vehicle miles traveled (VMT) instead of LOS. VMT measures how much actual auto travel (additional miles driven) a proposed project would create on California roads. If the proposed project adds excessive car travel onto our roads, the proposed project may cause a significant transportation impact. Per CEQA Guidelines Section 15064.3(b)(4) a lead agency has discretion to choose the most appropriate methodology to evaluate a project's VMT, including whether to express the change in absolute terms, per capita, per household or in any other measure. A lead agency may use models to estimate a project's VMT, and may revise those estimates to reflect professional judgment based on substantial evidence. Any assumptions used to estimate VMT and any revisions to model outputs should be documented and explained in the environmental document prepared for the project.

On October 17, 2022, the City of Clovis adopted the Transportation Impact Analysis Guidelines (Guidelines), dated September 15, 2022. Consistent with CEQA Guidelines Section 15064.3, the City of Clovis has adopted thresholds of significance to determine when a project will have a significant transportation impact based on VMT. The City has developed screening criteria to streamline the analysis for projects that meet certain criteria. A project will require a detailed VMT analysis unless it meets at least one of the City's five screening criteria[39]:

- Small Projects that generate less than 500 vehicle trips per day (i.e., Single-Family Residential developments with less than 53 dwelling units).
- Provision of affordable housing
- Local-serving retail projects with areas of 100,000 square feet and below
- Projects located in a High-Quality Transit Area (HQTA) as defined on page 8 of the City's Transportation Impact Analysis Guidelines
- Project located in low VMT area

The Project does not qualify for the screening criteria; therefore, shall be evaluated per Guidelines thresholds. The significance thresholds and specific VMT metrics are described on page 10 of the City's Transportation Impact Analysis Guidelines. Per the City's Transportation Impact Analysis Guidelines, the residential land use impact threshold is 14.1 VMT per capita. The Project will generate 16.6 VMT per capita which is greater than the threshold of 14.1 VMT per capita; therefore, the Project would create a significant transportation impact. Feasible mitigation measures must be identified to avoid or substantially reduce a significant impact under CEQA. Mitigation of VMT impacts typically requires changes in habits and behaviors of residents. Project design features that encourage mode shift from automobiles to transit or nonmotorized modes can potentially reduce project-specific VMT. The potential VMT reduction was estimated using the California Air Pollution Control Officers Association's (CAPCOA) *"Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity – Designed for Local Governments, Communities, and Project Developers"* dated December 2021.

The Project will implement feasible mitigation measures such as constructing approximately three and a quarter miles of sidewalks and approximately a half mile of Class II Bike Lanes on North Minnewawa and North Clovis Avenues; however, implementation of the Project design features described above only reduces the calculated Project VMT by up to approximately 3.3 percent. While the described mitigation measures can help offset a

39 Transportation Impact Analysis Guidelines, City of Clovis, September 15, 2022 page 4.

portion of the VMT impact, it will not reduce the impact to less than significant; therefore, the Project will have a **significant and unavoidable** transportation impact.

The City adopted a Supplemental Environmental Impact Report (SEIR) for the 2014 Clovis General Plan Circulation Element Update on October 17, 2022. The SEIR evaluated potential land uses consistent with the General Plan and their associated VMT impacts. The SEIR finds that implementation of the 2014 Clovis General Plan may result in VMT metrics that are greater than the applicable thresholds. Mitigation measures include policies to reduce VMT. Because the City cannot demonstrate that the implementation of these policies would achieve VMT reductions to meet the VMT thresholds, the impacts would remain significant and unavoidable. Therefore, following approval of the SEIR, individual land use development projects that are consistent with the 2014 Clovis General Plan have the opportunity to tier their environmental review from the General Plan SEIR pursuant to section 15152 of the CEQA Guidelines. The SEIR has disclosed the VMT impacts of land use development consistent with the General Plan. Therefore, significant and unavoidable VMT impacts associated with the General Plan have already been disclosed. Because the proposed Project is consistent with the 2014 Clovis General Plan, the Project's significant transportation impact does not require the preparation of a project specific EIR. Although the Project, has been determined to be consistent with the 2014 Clovis General Plan and is tiering from the SEIR, it would remain a **significant and unavoidable** impact.

c) *Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?*

**Less-Than-Significant Impact.** The Project would result in a significant impact if it would include features that would create a hazard such as a sharp curve in a new roadway, or create a blind corner or result in sight distance issues from entryways. Through the entitlement process, the Project would undergo review by multiple City divisions, such as Planning and Engineering, to ensure that the site layout conforms to existing regulations, such as the CMC, and other applicable codes, such as the fire code and building code. During this review, the Project would need to make the necessary corrections to ensure that no hazardous design features would result from the Project. Further, all public roadways will be constructed to City roadway standards. Therefore, because the Project would undergo site plan and design review to ensure consistency and adherence to applicable design and site layout guidelines, a **less-than-significant** impact would occur.

d) *Would the project result in inadequate emergency access?*

**Less-Than-Significant Impact.** The Project would include three (3) ingress/egress access points to the proposed development, from North Minnewawa and North Clovis Avenues. As part of the Project review, the Clovis Fire Department would review all plans to ensure adequate emergency access is provided. This review includes review for adequate roadway widths, turning radii, as well as adequate access to units and accessibility to water. Consequently, because the Project plans would be required by the CMC to be reviewed and approved by Clovis Fire Department and Police Department prior to construction, this impact would be **less than significant** and no mitigation measures are required.

**18. TRIBAL CULTURAL RESOURCES**

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)? | | | | X |

| | | | | |
|---|---|---|---|---|
| b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Section 5024.1 for the purposes of this paragraph, the lead agency shall consider the significance of the resource to a California Native American Tribe? | | X | | |

**ENVIRONMENTAL SETTING**

On September 25, 2014, Governor Jerry Brown signed Assembly Bill (AB52), which intends to protect a new class of recourse under CEQA. This new class is Tribal Cultural Resources and provides an avenue to identify Tribal Cultural resources through a consultation process. AB52 applies to all projects where a Notice of Determination is filed. Furthermore, the consultation process is required to be complete prior to filing a Notice of Intent.

City staff conducted Native American Consultation in compliance with AB52. In compliance with AB52, invitations for consultation were mailed on July 2, 2024 which affords Native tribes thirty (30) days to respond and to request consultation. During that time, one (1) tribe requested consultation. On September 30, 2024 a representative from Table Mountain Rancheria met with City staff via virtual call to discuss the potential for cultural resources at the Project annexation area. Following the meeting the representative from Table Mountain Rancheria voiced concerns for the potential sites of tribal significance. Based on the conversation while potential sites were within the annexation area, they were outside of the Project development site. However, mitigation measures are included in the following analysis to ensure protection of such resources if any are discovered inadvertently. With the incorporation of the mitigation measures, the consultation ended.

The Cultural Report prepared for the Project included a records search at the CHRIS SSJVIC, as well as desktop archival research.

**DISCUSSION**

a) *Would the project cause a substantial adverse change to a listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?*

**No Impact.** See discussion under Section 5a.

b) *Would the project cause a substantial adverse change to a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Section 5024.1 for the purposes of this paragraph, the lead agency shall consider the significance of the resource to a California Native American Tribe?*

**Less-Than-Significant Impact With Mitigation.** The site's ground has been minimally disturbed as a result of previous rural residential structures. Further, the Cultural Report concluded that there was no evidence of

prehistoric archaeological sites, isolated artifacts, or other archaeological features.[40] However, the potential remains that tribal cultural resources could be inadvertently or accidentally uncovered during ground-disturbing activities such as trenching, digging, and the installation of utilities and other infrastructure.

Because there is the slight possibility for the accidental or inadvertent uncovering of tribal cultural resources during construction, Mitigation Measures TCR-1 and TCR-2 would serve to reduce those potential impacts by requiring the stopping of any work until any found artifacts can be properly removed and inventoried by a qualified archaeologist. Therefore, the Project would result in a **less-than-significant impact with mitigation**.

Mitigation Measure TCR-1: If archaeological or tribal resources or materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.

If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.

If a potentially-eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met.

Mitigation Measure TCR-2: If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code and Project shall follow the procedures and protocols set for un CEQA Guidelines Section 15064.4(e)(1). If human remains are identified to be those of Native American, California Health and Safety Code 7050.5 requires the County coroner notify the NAHC within 24 hours of discovery. All reports, correspondence, and determinations regarding the discovery of human remains on the project site shall be submitted to the Lead Agency.

## 19. UTILITIES AND SERVICE SYSTEMS

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects? | | | X | |

40 Cultural Resource Study for the Clovis Tract 6452 prepared by Applied Earthworks, Inc., page 23, November 2023.

| | | | | |
|---|---|---|---|---|
| b. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years? | | | X | |
| c. Result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments? | | | X | |
| d. Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals? | | | X | |
| e. Comply with federal, state, and local management reduction statutes and regulations related to solid waste? | | | X | |

**ENVIRONMENTAL SETTING**

Pacific Gas & Electric (PG&E) provides electricity and natural gas services in the City of Clovis. AT&T/SBC provides telephone service to the City.

The City's water supply sources include groundwater drawn from the Kings Sub-basin of the San Joaquin Valley Groundwater Basin and treated surface water from the FID. Surface water is treated at the City of Clovis Surface Water Treatment Facility.

The City of Clovis provides sewer collection service to its residents and businesses. Treatment of wastewater occurs at the Fresno-Clovis Regional Wastewater Treatment Plant (RWTP). The Fresno-Clovis RWTP is operated and maintained by the City of Fresno and operates under a waste discharge requirement issued by the Central Valley Regional Water Quality Control Board. Additionally, the City of Clovis has completed a 2.8 mgd wastewater treatment/water reuse facility, which will service the City's new growth areas.

The FMFCD has the responsibility for storm water management within the Fresno-Clovis metropolitan area of the Project site. Stormwater runoff that is generated by land development is controlled through a system of pipelines and storm drainage detention basins.

**DISCUSSION**

a) *Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?*

**Less-Than-Significant Impact.** The Project includes construction of 385 residential homes. As mentioned above, the site is a use previously accounted for in the 2014 Clovis General Plan. Further, as part of the review process for the Project, the wastewater impacts will be evaluated by the City Engineer to ensure compliance with the City's Wastewater Master Plan, as well as FMFCD, so that the Project would not exceed wastewater treatment requirements such that a new facility would be required nor would the existing treatment facility need to be expanded. While the Project would introduce new homes at this site, the type of development would be

consistent with the land use designation and Zone District. Upon review and approval by the City Engineer, the Project would result in a **less-than-significant** impact and no mitigation measures are required.

b) *Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?*

**Less-Than-Significant Impact.** The Project is of the type of development previously accounted for the in 2014 Clovis General Plan and is adjacent to the south and east with existing urban uses which are served adequately with City water. Therefore, the Project is anticipated to be adequately served by City water. Further, the Project would comply with current Green Building Codes, as well as the water efficient landscape policies with regards to water conserving features. Lastly, the Project would be required to comply several water conserving policies, such as Policies 3.4 and 3.5 of the Open Space and Conservation Element. Overall, a **less-than-significant** impact would occur no mitigation measures are required.

c) *Would the project result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?*

**Less-Than-Significant Impact.** Because the Project is of the type previously planned and accounted for in the 2014 Clovis General Plan, it is not likely that the Project would result in a demand that would exceed the capacity of the wastewater treatment facility. Further, the Project is reviewed by the appropriate departments and agencies to ensure compliance and adequate capacity with regard to infrastructure, such as the ability to provide adequate wastewater treatment. Consequently, the impact would be **less-than-significant** no mitigation measures are required.

d) *Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?*

**Less-Than-Significant.** The Project would introduce new solid waste throughout construction and operation of the Project. However, the Project would be required to comply with Chapter 6.3.1, Recycling and Diversion of Construction and Demolition Debris, of the CMC during construction. This section of the CMC requires that a minimum of fifty percent (50%) of waste tonnage from a project be diverted from disposal, and that all new residential (and commercial) construction within the City shall submit and obtain approval for a waste management plan prior to construction activities. Compliance with these measures would ensure that the Project does not result in a significant impact during the construction phase of the Project. Further, compliance with policies in the General Plan for the reduction and recycling of solid waste would serve to reduce impacts of solid waste by promoting and encouraging the recycling of materials. Lastly, according to the California Department of Resources Recycling and Recovery (CalRecycle) the City of Clovis has exceeded their target per resident disposal rate of 4.7 pounds per day per resident, meaning that Clovis residents are actually producing less solid waste than the target set by the State.[41] Consequently, a **less-than-significant** impact would occur no mitigation measures are required.

e) *Would the project comply with federal, state, and local management reduction statutes and regulations related to solid waste?*

**Less-Than-Significant.** See discussion 19d above.

41 Calrecycle, City of Clovis, https://www2.calrecycle.ca.gov/LGCentral/DiversionProgram/JurisdictionDiversionPost2006, accessed October 8, 2024.

## 20. WILDFIRE

| If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Substantially impair an adopted emergency response plan or emergency evacuation plan? | | | X | |
| b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire? | | | X | |
| c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment? | | | X | |
| d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes? | | | X | |

**ENVIRONMENTAL SETTING**

The Project site is located on an undeveloped site surrounded by existing residential homes at various densities to the south and east. The site's topography is generally flat and characterized primarily by low lying shrubs and grasses.

**DISCUSSION**

a) *Would the project substantially impair an adopted emergency response plan or emergency evacuation plan?*

**Less-Than-Significant Impact.** The Project is located at a site that is surrounded by existing residential development to the south and east. Further, the road network will be construed as part of the Project. Although the Project could result in temporary traffic detouring or closures during buildout, these delays would be temporary and would be coordinated with the City Engineering Division and other departments to ensure safe access to and from the area is maintained. Further, the site itself would reviewed by City departments to ensure adequate site access and circulation is provided in the event of an emergency. Overall, a **less-than-significant** impact would occur and no mitigation measures are required.

b) *Would the project, due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?*

**Less-Than-Significant Impact.** The general vicinity of the site is flat, therefore, is not of the type of topography nor in a location likely to exacerbate wildfire risks. Additionally, the Project site is located in an area mapped by CAL FIRE as "unzoned" per the Fire Hazard Severity Zone Viewer[42], indicating the area is not located in an area within State Responsibility Areas into Fire Hazard Severity Zones. Further, the Project would be required to comply with the latest fire codes and would be required to include sprinklers on the interior of the homes and require installation of several hydrants throughout the site. Lastly, the site plans would undergo review by the Clovis Fire Department to ensure that all fire safety regulations are met. Project site is Therefore, a **less-than-significant** impact would occur no mitigation measures are required.

c) *Would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?*

**Less-Than-Significant Impact.** As a new development, the Project requires the installation of a public and private roadway network, water lines, and power lines; however, these utilities and infrastructure are typical of residential development and would be constructed to standards of the respective agencies and departments which oversee them, as well as be required to comply all necessary plan review and permitting requirements of such departments and agencies. As such, a **less-than-significant** impact would occur no mitigation measures are required.

d) *Would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?*

**No Impact.** The City of Clovis is generally flat topography, and the site itself is in an area that is not in close proximity to hillsides such that it would expose people or structures to significant risks associates with downstream flooding or landslides as a result of runoff or post-fire slope instability. As such, **no impact** would occur no mitigation measures are required.

## 21. MANDATORY FINDINGS OF SIGNIFICANCE

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory? | | | X | |
| b. Does the project have impacts that are individually limited, but cumulatively | | | X | |

42 Fire Hazard Severity Zones, https://osfm.fire.ca.gov/what-we-do/community-wildfire-preparedness-and-mitigation/fire-hazard-severity-zones, accessed October 8, 2024

| | | | | |
|---|---|---|---|---|
| considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)? | | | | |
| c. Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly? | | | X | |

**ENVIRONMENTAL SETTING**

The Project is located within the City of Clovis, substantially surrounded by existing development to the south and east.

**DISCUSSION**

a) *Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?*

**Less-Than-Significant Impact.** As discussed above throughout the Initial Study, the Project would not result in any significant impacts with implementation of mitigation measures prescribed above. Therefore, the Project would have a **less-than-significant** impact as it would not substantially degrade the quality of the environment.

b) *Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?*

**Less-Than-Significant Impact.** The Project includes mitigation measures in certain topic areas identified throughout this Initial Study which would reduce potential impacts to a less-than-significant level. None of these impacts would be cumulatively considerable since most are either temporary impacts from construction or site specific. With the exception of GHG that is generally considered measurable cumulatively and VMT which has been determined to be consistent with the 2014 General Plan and is tiering from the SEIR. The Project was found to have a less-than-significant impact as discussed in this Initial Study. As such, this Project would be required to comply with those same regulations, ensuring adequate mitigation as development occurs. Lastly, while the Project would introduce 385 new residential homes to an existing undeveloped site, the type of use was previously accounted for in the 2014 Clovis General Plan buildout. Thus, a **less-than-significant** impact would occur.

c) *Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?*

**Less-Than-Significant Impact.** As discussed throughout the document, the Project would not result in an impact that could not be mitigated to a less-than-significant level. Therefore, a **less-than-significant** impact would occur.

## I. Report Preparation

**LEAD AGENCY**

***Liz Salazar***
Assistant Planner
City of Clovis

Planning & Development Services

## TECHNICAL STUDIES

***Air Quality and Greenhouse Impact Assessment***
Tract 6375 Residential Development
Georgiena Vivian, Project Manager
VRPA Technologies, Inc.
January 2024

***Biological Evaluation Report***
Lennar Homes Tract 6375
Austin Pearson, Vice President
Rebekah Jenson, Senior Project Manager and Ecologist
Live Oak Associates, Inc.
August 2023, revised October 2024

***Cultural Resource Study***
Clovis Tract 6375 Residential Development, City of Clovis, Fresno County, California
Nicole Saenz
Applied EarthWorks, Inc.
November 2023

***Acoustical Analysis***
Tract 6375
WJV Acoustics, Inc.
March 2024

***Traffic Impact Analysis***
Proposed Tract 6375
Peters Engineering Group
December 2023

**MITIGATION MONITORING AND REPORTING PROGRAM**
**TM6452**

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| ***Agriculture and Forestry Resources*** | | | | |
| AGR-1 | The Project applicant shall prepare or fund an agricultural resource evaluation prior to project approval. The resource evaluation shall be use generally accepted methodologies (such as the Land Evaluation and Site Assessment Model) to identify the potentially significant impact of the loss of agricultural land. If the loss of agricultural land is determined to be a potentially significant impact, the resource evaluation shall consider the economic viability of future agricultural use of the property. If the agricultural resource is considered significant and future agricultural use is considered economically viable, the conversion will be deemed significant. The City shall require mitigation by one of the following methods:<br>• Mitigation at a 1:1 ration of converted to preserved acreage through a regional conservation easement, or payment of its valuation equivalent if a fee mitigation program is established. If 1:1 mitigation is determined to be economically infeasible, based upon all of the evidence, the ratio may be reduced to an economically feasible ratio or no further mitigation shall be required. This determination shall be made by the City's Director of Planning and Development | City of Clovis Planning | *Prior to Permits* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | Services based upon substantial evidence in the record; or<br><br>• Other potential mitigation which achieves the same mitigating effect as the measures identified above, consistent with the CEQA Statutes and Guidelines. This determination shall be made by the City's Director of Planning and Development Services based upon substantial evidence in the record. | | | |
| ARG-2 | Prior to issuance of building permits for development of APN 556-030-17S, the project applicant would be required to petition for cancellation of the Williamson Act contract for APN 556-030-17S. The applicant would have to meet circumstances and conditions set forth in Government Code Section 51280. After approval of the cancellation petition, the applicant would be able to develop uses that comply with the zoning designation of the parcel per the Clovis Municipal Code. | City of Clovis Planning | *Prior to Permits* | |
| ARG-3 | Pursuant to Clovis Municipal Code Section 9.40.170 and the California Civil Code Section 3482.5, prior to approval of building occupancy permits the Project developer shall provide residents of the Project site Right-To-Farm notifications. The Right-To-Farm notification would advise future occupants of the Project site that they are residing adjacent to agricultural land that has been active for three or | City of Clovis Planning | *Prior to Permits* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | more years and that they should expect continued activities associated with agricultural production. | | | |
| ***Biological Resources*** | | | | |
| BIO-1 | **Sanford's arrowhead.** Prior to the start of construction, a qualified biologist will conduct protocol-level rare plant surveys following California Department of Fish and Wildlife's 2018 Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities, or most current agency guidance. Surveys will target all habitats of the Project site that could potentially support the Sanford's arrowhead, and will be conducted when local populations of the Sanford's arrowhead are in bloom and readily identifiable. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-2 | **Sanford's arrowhead.** If Sanford's arrowhead populations are identified on site, project design will be modified, if at all feasible, to avoid the plants. A qualified biologist will identify an appropriate buffer around the plants, and no developments or other project-related activities will be permitted within. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-3 | **Sanford's arrowhead.** If it is not feasible to avoid Sanford's arrowhead populations, the affected populations will be salvaged in accordance with a plan prepared by a qualified biologist that will include contingencies for an unsuccessful salvage effort. Salvage methods may include seed collection and dispersal, transplanting rootstock, and/or | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | topsoil collection and redispersal, as appropriate. The relocation area(s) will be located in alternative on-site emergent wetland habitat to be established and maintained for this species, and protected through a deed restriction, conservation easement, or similar mechanism. Relocation areas will be monitored by a qualified biologist for a period of five years to ensure successful establishment. | | | |
| BIO-4 | **Monarch butterfly**. Prior to the start of construction, a qualified biologist will survey all proposed work areas for milkweed plants. The survey will be conducted at a time of year when milkweed is readily identifiable. The objective of the survey will be to tally and map all milkweed plants that could potentially be impacted by project activities (Milkweed Survey). | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-5 | **Monarch butterfly.** If feasible, any removal of milkweed plants required for residential buildout will take place entirely outside of the period in which monarchs are most likely to breed in the project vicinity, March 1-August 31 (Construction Timing). | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-6 | **Monarch butterfly.** If removal of milkweed plants cannot be avoided between March 1 and August 31, a qualified biologist will conduct pre-construction surveys for non-volant life stages of monarchs on those milkweed plants that will be removed, within 10 days prior to the start of construction. If any non-volant life stages are identified, then those plants | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | will be avoided until it is confirmed by a qualified biologist that a monarch is no longer present (Preconstruction Surveys and Avoidance). | | | |
| BIO-7 | **Monarch butterfly.** Impacted milkweed plants will be replaced on site in accordance with a revegetation plan prepared by a qualified biologist. A minimum of 50 replacement plantings will be provided, or three times the number of milkweed plants identified at the time of the milkweed survey (see Mitigation Measure BIO-4), whichever is greater. Replacement plantings must be locally native; preferred species are narrowleaf milkweed (A. fascicularis) and showy milkweed (A. speciosa). The planting site(s) must be in area(s) that will not be mowed or treated with pesticides or herbicides, to be guaranteed via a deed restriction or similar protective mechanism. Revegetation areas will be monitored by a qualified biologist for a period of five years to ensure successful establishment. (Compensatory Mitigation). | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-8 | **Swainson's hawk.** If feasible, project activities will take place entirely outside of the Swainson's hawk nesting season, defined here as March 1 to September 15. If Mitigation Measure BIO-8 is implemented, no further mitigation for this species is required. (Construction Timing). | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| BIO-9 | **Swainson's hawk.** If project activities must occur between March 1 and September 15, a qualified biologist will conduct nest surveys for Swainson's hawks on and within ¼ mile of the Project site within the survey periods prescribed by Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley (SHTAC 2000). Three nest surveys will be conducted in each of two survey periods, with the survey periods defined as follows: Period I – January 1 to March 20, Period II – March 20 to April 5, Period III – April 5 to April 20, Period IV – April 21 to June 10, and Period V – June 10 to July 30. Surveys will take place in the two survey periods immediately prior to the anticipated start of construction activities during the nesting season, with the exception of Period III, when no surveys should take place per the SHTAC guidelines. The surveys will consist of inspecting all accessible, suitable trees of the survey area for the presence of nests and hawks. (Nesting Surveys). | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-10 | **Swainson's hawk.** If active Swainson's hawk nests are detected during the surveys or observed incidentally, a minimum ¼-mile no-disturbance buffer will be delineated and maintained around each nest, to remain in place until the breeding season has ended or until a qualified biologist has determined that the birds have fledged and are no | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | longer reliant upon the nest or parental care for survival. (No-Disturbance Buffers). | | | |
| BIO-11 | **Swainson's hawk.** If an active Swainson's hawk nest is detected, and a ¼-mile no-disturbance buffer is not feasible, the project applicant will consult with CDFW to discuss how to implement the project and avoid take. If take cannot be avoided, take authorization will be obtained through the acquisition of a State Incidental Take Permit (ITP), pursuant to Fish and Game Code section 2081 subdivision (b). (CDFW Consultation). | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-12 | **Other nesting birds and raptors.** If feasible, project activities will take place entirely outside of the avian nesting season, defined here as February 1 to September 15. If Mitigation Measure BIO-12 is implemented, no further mitigation for nesting birds or raptors is required. (Construction Timing). | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-13 | **Other nesting birds and raptors.** If project activities must occur between February 1 and September 15, a qualified biologist will conduct surveys for active bird nests within 10 days prior to the start of work during this period. The survey area will encompass the site and accessible surrounding lands within 250 feet for nesting birds and 500 feet for nesting raptors (Preconstruction Surveys). | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-14 | **Other nesting birds and raptors.** Should any active nests be discovered in or near the work area, a qualified biologist will conduct an additional survey | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | to establish a behavioral baseline of these nests. (Behavioral Baseline). | | | |
| BIO-15 | **Other nesting birds and raptors.** If feasible, a qualified biologist will continuously monitor active nests during project activities to detect behavioral changes resulting from the project. If behavioral changes occur, the activities that appear to be causing the changes (as determined by the qualified biologist) will be discontinued. At the biologist's discretion, activities may be resumed (1) in a modified form, with lower levels of visual or sound disturbance, (2) following the implementation of measures designed to reduce perceived disturbance, e.g. visual buffers, and/or (3) at a later nesting stage, when the affected birds are less sensitive to disturbance. (Continuous Monitoring). | City of Clovis Planning | *Prior to Permits and During Construction* | |
| BIO-16 | **Other nesting birds and raptors.** If continuous monitoring of active nests is not feasible, or if nesting birds have behavioral changes that persist following the implementation of one or more of the corrective actions identified above under Mitigation Measure 4.1.4d, a minimum no-disturbance buffer of 250 feet will be established around active bird nests and 500 feet around active raptor nests. These buffers will remain in place until after the breeding season has ended or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or on-site parental care for survival. Variance from these no- | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | disturbance buffers is possible when there is compelling biological or ecological reason to do so. A qualified biologist will advise and support any variance from these buffers. (No-Disturbance Buffers). | | | |
| ***Cultural Resources*** | | | | |
| CULT-1 | If archaeological or tribal resources or materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.<br><br>If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.<br><br>If a potentially-eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met. | | | |
| CULT-2 | If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code and Project shall follow the procedures and protocols set for un CEQA Guidelines Section 15064.4(e)(1). If human remains are identified to be those of Native American, California Health and Safety Code 7050.5 requires the County coroner notify the California Native American Heritage Commission within 24 hours of discovery. All reports, correspondence, and determinations regarding the discovery of human remains on the Project site shall be submitted to the Lead Agency. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| ***Geological Resources*** | | | | |
| GEO-1 | If prehistoric or historic-era cultural materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist and/or paleontologist, can evaluate the significance of the find and make recommendations. Cultural resource | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.<br><br>If the qualified professional determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.<br><br>If a potentially-eligible resource is encountered, then the qualified professional archaeologist and/or paleontologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met. | | | |
| ***Greenhouse Gas Emissions*** | | | | |
| GHG-1 | In order to meet the 2022 Scoping Plan GHG requirements, consistent with State GHG reduction and equity prioritization goals, each residential unit shall provide electric vehicle charging capabilities as part of the final project designs. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| ***Noise*** | | | | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| NOISE-1 | Exterior Noise. A sound wall shall be constructed to a minimum height of six (6) feet above Project-side grade along North Minnewawa Avenue. In order for the sound wall to effectively shield noise, where there will be access to the development from North Minnewawa Avenue, the sound walls will need to be turned inward (eastward) for a distance of approximately twenty (20) feet at roadway access points. Other Project design features that satisfy the City's exterior noise exposure noise level may fulfill this mitigation. | City of Clovis Planning | *During Construction and Prior to Occupancy* | |
| NOISE-2 | Interior Noise. Mechanical ventilation or air conditioning shall be provided for all homes to enable windows and doors to remain closed for sound insulation purposes. | City of Clovis Planning | *During Construction and Prior to Occupancy* | |
| ***Tribal Cultural Resources*** | | | | |
| TCR-1 | If archaeological or tribal resources or materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants. | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.<br><br>If a potentially-eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met. | | | |
| TCR-2 | If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code and Project shall follow the procedures and protocols set for un CEQA Guidelines Section 15064.4(e)(1). If human remains are identified to be those of Native American, California Health and Safety Code 7050.5 requires the County coroner notify the NAHC within 24 hours of discovery. All reports, correspondence, and determinations regarding the discovery of human | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | remains on the project site shall be submitted to the Lead Agency. | | | |

# Tract 6375 Residential Development

## Air Quality & Greenhouse Gas Impact Assessment
## January, 2024

**Prepared by:**
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AGENDA ITEM NO. 16.

# 1.0 Introduction

## 1.1 Description of the Region/Project

The proposed project aims to develop 398 single-family residential units in the northeast section of Shepherd and Minnewawa Avenue in the City of Clovis. The project site spans approximately 54.3 acres of land and is situated between Minnewawa and Clovis Avenue. It is positioned 2 miles north of State Route (SR) 168 within the City of Clovis, which is located in Fresno County.

This Air Quality & Greenhouse Gas Impact Assessment has been prepared for the purpose of identifying potential project-specific or site-specific air quality impacts that may result from the Project. Figures 1 and 2 show the location of the Project long with major roadways and highways.

The City of Clovis is located in Fresno County one of the most polluted air basins in the country – the San Joaquin Valley Air Basin (SJVAB). The surrounding topography includes foothills and mountains to the east and west. These mountain ranges direct air circulation and dispersion patterns. Temperature inversions can trap air within the Valley, thereby preventing the vertical dispersal of air pollutants. In addition to topographic conditions, the local climate can also contribute to air quality problems. Climate in Fresno is characterized by hot, dry summers and cool winters with the notable presence of Tule fog.

## 1.2 Regulatory

Air quality within the Project area is addressed through the efforts of various federal, state, regional, and local government agencies. These agencies work jointly, as well as individually, to improve air quality through legislation, regulations, planning, policymaking, education, and a variety of programs. The agencies primarily responsible for improving the air quality within the City of Clovis and Fresno County are discussed below along with their individual responsibilities.

### 1.2.1 *Federal Agencies*

✓ **U.S. Environmental Protection Agency (EPA)**

The Federal Clean Air Bill first adopted in 1967 and periodically amended since then, established federal ambient air quality standards. A 1987 amendment to the Bill set a deadline for the attainment of these standards. That deadline has since passed. The other Clean Air Act (CAA) Bill Amendments, passed in 1990, share responsibility with the State in reducing emissions from mobile sources. The U.S. Environmental Protection Agency (EPA) is responsible for enforcing the 1990 amendments.

The CAA and the national ambient air quality standards identify levels of air quality for six "criteria" pollutants, which are considered the maximum levels of ambient air pollutants considered safe, with an adequate margin of safety, to protect public health and welfare. The six criteria pollutants include ozone, carbon monoxide (CO), nitrogen dioxide, sulfur dioxide,

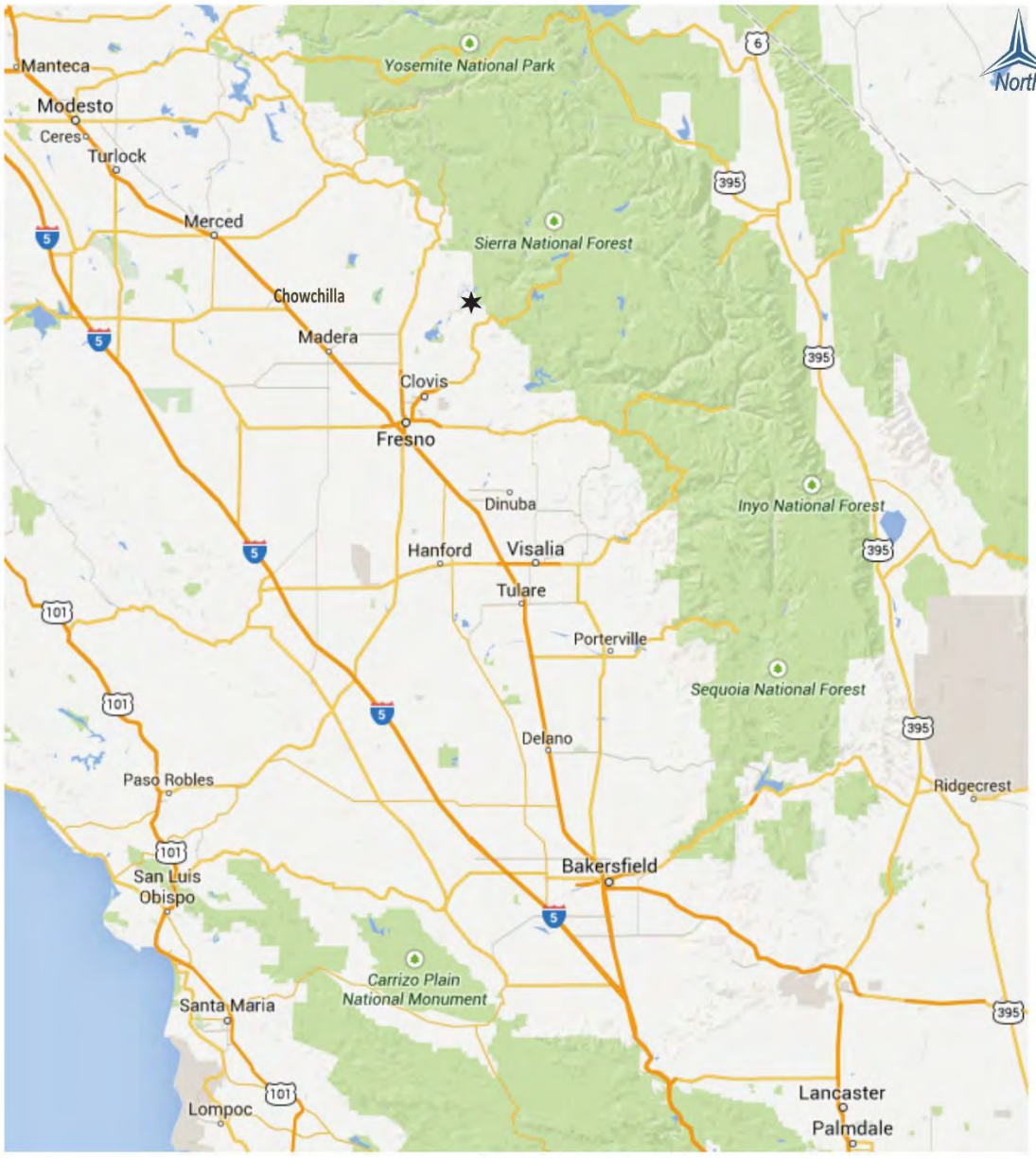
particulate matter, and lead.

CAA Section 176(c) (42 U.S.C. 7506(c)) and EPA transportation conformity regulations (40 CFR 93 Subpart A) require that each new RTP and Transportation Improvement Program (TIP) be demonstrated to conform to the State Implementation Plan (SIP) before the RTP and TIP are approved by the Metropolitan planning organization (MPO) or accepted by the U.S. Department of Transportation (DOT). The conformity analysis is a federal requirement designed to demonstrate compliance with the National Ambient Air Quality Standards (NAAQS). However, because the State Implementation Plan (SIP) for particulate matter 10 microns or less in diameter (PM10), particulate matter 2.5 microns or less in diameter (PM2.5), and Ozone address attainment of both the State and federal standards, for these pollutants, demonstrating conformity to the federal standards is also an indication of progress toward attainment of the State standards. Compliance with the State air quality standards is provided on the pages following this federal conformity discussion.

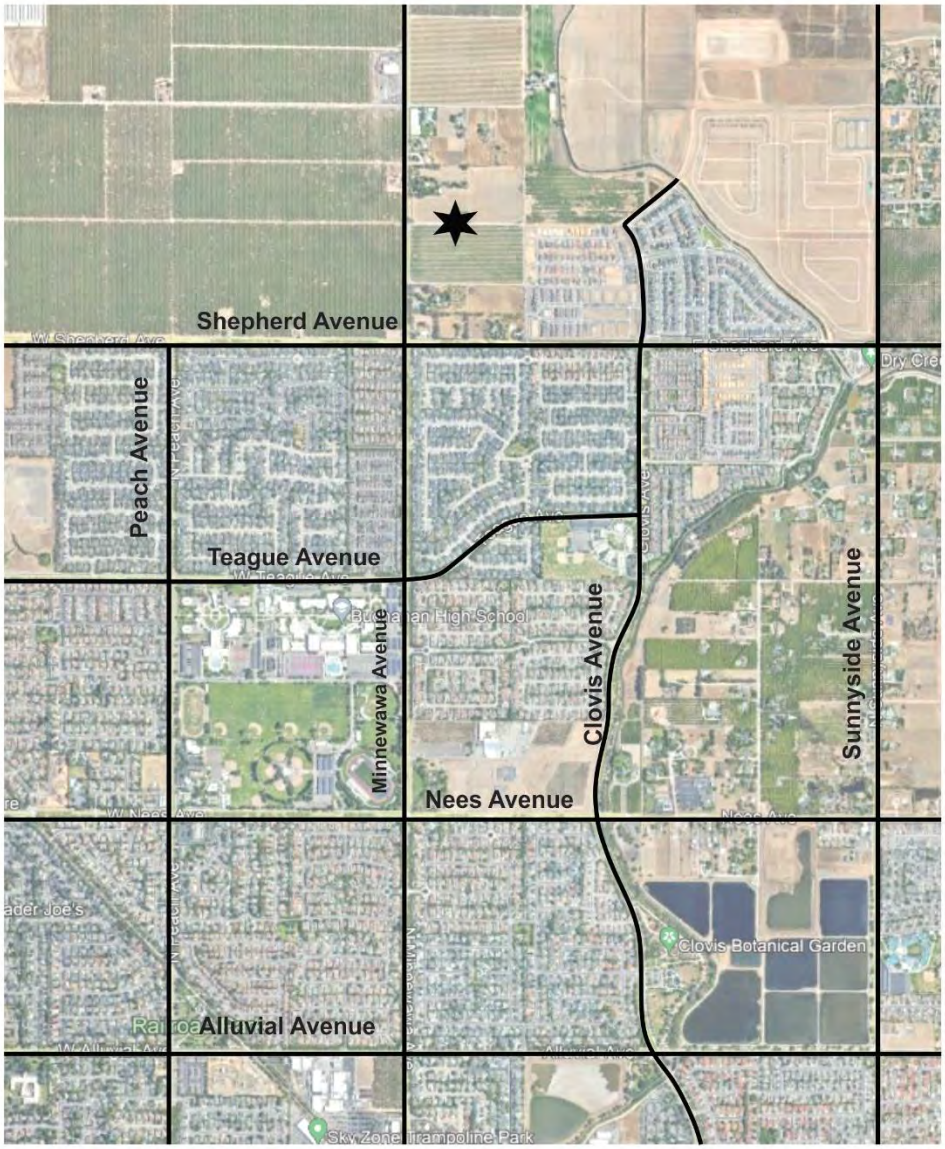
The EPA approved San Joaquin Valley reclassification of the ozone (8-hour) designation to extreme nonattainment in the Federal Register on May 5, 2010, even though the San Joaquin Valley was initially classified as serious nonattainment for the 1997 8-hour ozone standard. In accordance with the CAA, EPA uses the design value at the time of standard promulgation to assign nonattainment areas to one of several classes that reflect the severity of the nonattainment problem; classifications range from marginal nonattainment to extreme nonattainment. In the Federal Register on October 26, 2015, the EPA revised the primary and secondary standard to 0.070 parts per million (ppm) to provide increased public health protection against health effects associated with long- and short-term exposures. The previous ozone standard was set in 2010 at 0.075 ppm.

Fresno County is located in a nonattainment area for the 8-hour ozone standard, PM2.5 standard, and PM10 standard.

**Tract 6375 Residential Development AQ/GHG** **Figure 1**
**Regional Location**



**Tract 6375 Residential Development AQ/GHG Project Location** — **Figure 2**



### 1.2.2 *Federal Regulations*

✓ **National Environmental Policy Act (NEPA)**

NEPA provides general information on the effects of federally funded projects. The Act was implemented by regulations included in the Code of Federal Regulations (40CFR6). The code requires careful consideration concerning environmental impacts of federal actions or plans, including projects that receive federal funds. The regulations address impacts on land uses and conflicts with state, regional, or local plans and policies, among others. They also require that projects requiring NEPA review seek to avoid or minimize adverse effects of proposed actions and to restore and enhance environmental quality as much as possible.

✓ **State Implementation Plan (SIP)/ Air Quality Management Plans (AQMPs)**

To ensure compliance with the NAAQS, EPA requires states to adopt SIP aimed at improving air quality in areas of nonattainment or a Maintenance Plan aimed at maintaining air quality in areas that have attained a given standard. New and previously submitted plans, programs, district rules, state regulations, and federal controls are included in the SIPs. Amendments made in 1990 to the federal CAA established deadlines for attainment based on an area's current air pollution levels. States must enact additional regulatory programs for nonattainment's areas in order to adhere with the CAA Section 172. In California, the SIPs must adhere to both the NAAQS and the California Ambient Air Quality Standards (CAAQS).

To ensure that State and federal air quality regulations are being met, Air Quality Management Plans (AQMPs) are required. AQMPs present scientific information and use analytical tools to identify a pathway towards attainment of NAAQS and CAAQS. The San Joaquin Valley Air Pollution Control District (SJVAPCD) develops the AQMPs for the region where the Fresno Council of Governments(FCOG) operates. The regional air districts begin the SIP process by submitting their AQMPs to the California Air Resources Board (CARB). CARB is responsible for revising the SIP and submitting it to EPA for approval. EPA then acts on the SIP in the Federal Register. The items included in the California SIP are listed in the Code of Federal Regulations Title 40, Chapter 1, Part 52, Subpart 7, Section 52.220.

✓ **Transportation Control Measures**

One particular aspect of the SIP development process is the assessment of available transportation control measures (TCMs) as a part of making progress towards clean air goals. TCMs are defined in Section 108(f)(1) of the CAA and are strategies designed to reduce vehicle miles traveled, vehicle idling, and associated air pollution. These goals are generally achieved by developing attractive and convenient alternatives to single-occupant vehicle use. Examples of TCMs include ridesharing programs, transportation infrastructure improvements such as adding bicycle and carpool lanes, and expansion of public transit.

✓ **Energy Policy Act of 1992 (EPAct)**

The Energy Policy Act of 1992 (EPAct) was passed to reduce the country's dependence on foreign petroleum and improve air quality. EPAct includes several parts intended to build an inventory of alternative fuel vehicles (AFVs) in large, centrally fueled fleets in metropolitan areas. EPAct requires certain federal, state, and local government and private fleets to purchase a percentage of light duty AFVs capable of running on alternative fuels each year. In addition, financial incentives are included in EPAct. Federal tax deductions will be allowed for businesses and individuals to cover the incremental cost of alternative fueled vehicles (AFVs). States are also required by the act to consider a variety of incentive programs to help promote AFVs.

### 1.2.3 *State Agencies*

✓ **California Air Resources Board (CARB)**

CARB is the agency responsible for coordination and oversight of State and local air pollution control programs in California and for implementing its own air quality legislation called the California Clean Air Act (CCAA), adopted in 1988. CARB was created in 1967 from the merging of the California Motor Vehicle Pollution Control Board and the Bureau of Air Sanitation and its Laboratory.

CARB has primary responsibility in California to develop and implement air pollution control plans designed to achieve and maintain the NAAQS established by the EPA. Whereas CARB has primary responsibility and produces a major part of the SIP for pollution sources that are statewide in scope, it relies on the local air districts to provide additional strategies for sources under their jurisdiction. CARB combines its data with all local district data and submits the completed SIP to the EPA. The SIP consists of the emissions standards for vehicular sources and consumer products set by CARB, and attainment plans adopted by the Air Pollution Control Districts (APCDs) and Air Quality Management District's (AQMDs) and approved by CARB.

States may establish their own standards, provided the State standards are at least as stringent as the NAAQS. California has established California Ambient Air Quality Standards (CAAQS) pursuant to California Health and Safety Code (CH&SC) [§39606(b)] and its predecessor statutes.

The CH&SC [§39608] requires CARB to "identify" and "classify" each air basin in the State on a pollutant-by-pollutant basis. Subsequently, CARB designated areas in California as nonattainment based on violations of the CAAQSs. Designations and classifications specific to the SJVAB can be found in the next section of this document. Areas in the State were also classified based on severity of air pollution problems. For each nonattainment class, the CCAA specifies air quality management strategies that must be adopted. For all nonattainment categories, attainment plans are required to demonstrate a five percent-per-

year reduction in nonattainment air pollutants or their precursors, averaged every consecutive three-year period, unless an approved alternative measure of progress is developed. In addition, air districts in violation of CAAQS are required to prepare an Air Quality Attainment Plan (AQAP) that lays out a program to attain and maintain the CCAA mandates.

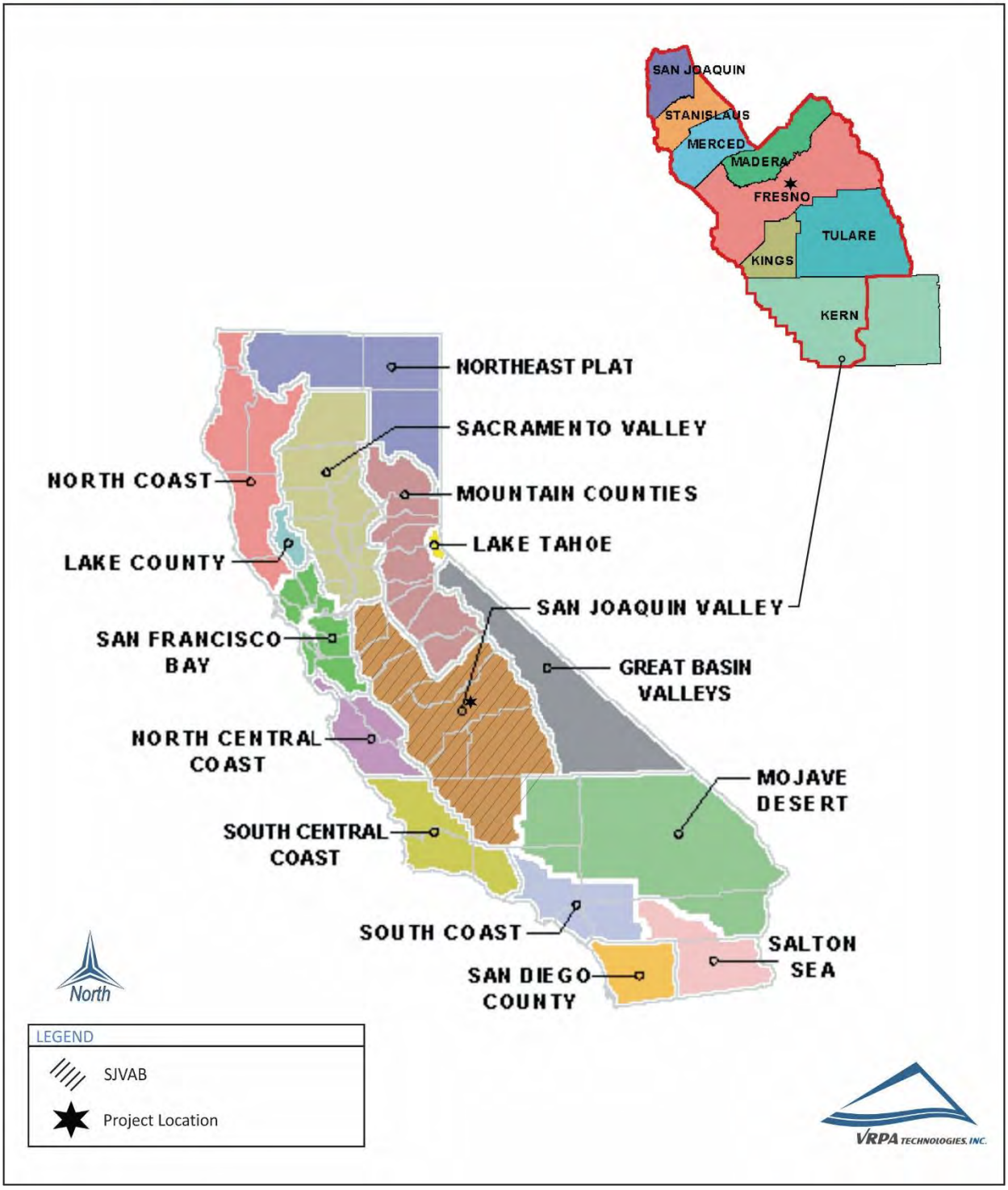
CARB, in consultation with MPOs, has provided each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region for the years 2020 and 2035. For the Fresno Council of Governments (FCOG) region, CARB set targets at six(6) percent per capita decrease in 2020 and a thirteen (13) percent per capita decrease in 2035 from a base year of 2005. FCOG's 2022 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), which was adopted in July 2022, projects that the Fresno County region would achieve the prescribed emissions targets.

Other CARB duties include monitoring air quality. CARB has established and maintains, in conjunction with local APCDs and AQMDs, a network of sampling stations (called the State and Local Air Monitoring [SLAMS] network), which monitor the present pollutant levels in the ambient air.

Fresno County is in the CARB-designated, SJVAB. A map of the SJVAB is provided in Figure 3. In addition to Fresno County, the SJVAB includes Kings, Kern, Madera, Merced, San Joaquin, Stanislaus, and Tulare Counties. Federal and State standards for criteria pollutants are provided in Table 1.

**Tract 6375 Residential Development AQ/GHG**
**San Joaquin Valley Air Basin**

**Figure 3**



# Table 1
## Ambient Air Quality Standards

| Pollutant | Averaging Time | California Standards [1] | | National Standards [2] | | |
|---|---|---|---|---|---|---|
| | | Concentration [3] | Method [4] | Primary [3,5] | Secondary [3,6] | Method [7] |
| Ozone ($O_3$) [8] | 1 Hour | 0.09 ppm (180 µg/m$^3$) | Ultraviolet Photometry | -- | Same as Primary Standard | Ultraviolet Photometry |
| | 8 Hour | 0.070 ppm (137 µg/m$^3$) | | 0.070 ppm (137 µg/m$^3$) | | |
| Respirable Particulate Matter (PM10) [9] | 24 Hour | 50 µg/m$^3$ | Gravimetric or Beta Attenuation | 150 µg/m$^3$ | Same as Primary Standard | Inertial Separation and Gravimetric Analysis |
| | Annual Arithmetic Mean | 20 µg/m$^3$ | | -- | | |
| Fine Particulate Matter (PM2.5) [9] | 24 Hour | -- | -- | 35 µg/m$^3$ | Same as Primary Standard | Inertial Separation and Gravimetric Analysis |
| | Annual Arithmetic Mean | 12 µg/m$^3$ | Gravimetric or Beta Attenuation | 12.0 µg/m$^3$ | 15 µg/m$^3$ | |
| Carbon Monoxide (CO) | 1 Hour | 20 ppm (23 mg/m$^3$) | Non-Dispersive Infrared Photometry (NDIR) | 35 ppm (40 mg/m$^3$) | -- | Non-Dispersive Infrared Photometry (NDIR) |
| | 8 Hour | 9.0 ppm (10 mg/m$^3$) | | 9 ppm (10 mg/m$^3$) | -- | |
| | 8 Hour (Lake Tahoe) | 6 ppm (7 mg/m$^3$) | | -- | -- | |
| Nitrogen Dioxide ($NO_2$) [10] | 1 Hour | 0.18 ppm (339 µg/m$^3$) | Gas Phase Chemiluminescence | 100 ppb (188 µg/m$^3$) | -- | Gas Phase Chemiluminescence |
| | Annual Arithmetic Mean | 0.030 ppm (57 µg/m$^3$) | | 0.053 ppm (100 µg/m$^3$) | Same as Primary Standard | |
| Sulfur Dioxide ($SO_2$) [11] | 1 Hour | 0.25 ppm (655 µg/m$^3$) | Ultraviolet Fluorescence | 75 ppb (196 µg/m$^3$) | -- | Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method) |
| | 3 Hour | -- | | -- | 0.5 ppm (1300 µg/m$^3$) | |
| | 24 Hour | 0.04 ppm (105 µg/m$^3$) | | 0.14 ppm (for cetain areas) [11] | -- | |
| | Annual Arithmetic Mean | -- | | 0.030 ppm (for cetain areas) [11] | -- | |
| Lead [12,13] | 30 Day Average | 1.5 µg/m$^3$ | Atomic Absorption | -- | -- | High Volume Sampler and Atomic Absorption |
| | Calendar Quarter | -- | | 1.5 µg/m$^3$ (for certain areas) [11] | Same as Primary Standard | |
| | Rolling 3-Month Average | -- | | 0.15 µg/m$^3$ | | |
| Visibility Reducing Particles [14] | 8 Hour | See footnote 14 | Beta Attenuation and Transmittance through Filter Tape | No National Standards | | |
| Sulfates | 24 Hour | 25 µg/m$^3$ | Ion Chromatography | | | |
| Hydrogen Sulfide | 1 Hour | 0.03 ppm (42 µg/m$^3$) | Ultraviolet Fluorescence | | | |
| Vinyl Chloride [12] | 24 Hour | 0.01 ppm (26 µg/m$^3$) | Gas Chromatography | | | |

See footnotes on next page ...

**Footnotes:**

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m3 is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An “equivalent method” of measurement may be used but must have a “consistent relationship to the reference method” and must be approved by the U.S. EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 µg/m3 to 12.0 µg/m3. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 µg/m3, as was the annual secondary standard of 15 µg/m3. The existing 24-hour PM10 standards (primary and secondary) of 150 µg/m3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
11. On June 2, 2010, a new 1-hour SO2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 µg/m3 as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

### 1.2.4 *State Regulations*

✓ **CARB Mobile-Source Regulation**

The State of California is responsible for controlling emissions from the operation of motor vehicles in the State. Rather than mandating the use of specific technology or the reliance on a specific fuel, CARB's motor vehicle standards specify the allowable grams of pollutant per mile driven. In other words, the regulations focus on the reductions needed rather than on the manner in which they are achieved.

✓ **California Clean Air Act**

The CCAA was first signed into law in 1988. The CCAA provides a comprehensive framework for air quality planning and regulation, and spells out, in statute, the state's air quality goals, planning and regulatory strategies, and performance. The CCAA establishes more stringent ambient air quality standards than those included in the Federal CAA. CARB is the agency responsible for administering the CCAA. CARB established ambient air quality standards pursuant to the CH&SC [§39606(b)], which are similar to the federal standards. The SJVAPCD is one of 35 AQMDs that have prepared air quality management plans to accomplish a five percent (5%) annual reduction in emissions documenting progress toward the State ambient air quality standards.

✓ **Tanner Air Toxics Act**

California regulates Toxic Air Contaminants (TACs) primarily through the Tanner Air Toxics Act (AB 1807) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (AB 2588). The Tanner Act sets forth a formal procedure for CARB to designate substances as TACs. This includes research, public participation, and scientific peer review before CARB can designate a substance as a TAC. To date, CARB has identified more than 21 TACs and has adopted EPA's list of Hazardous Air Pollutants (HAPs) as TACs. Once a TAC is identified, CARB then adopts an Airborne Toxics Control Measure (ATCM) for sources that emit that particular TAC. If there is a safe threshold for a substance at which there is no toxic effect, the control measure must reduce exposure below that threshold. If there is no safe threshold, the measure must incorporate Best Available Control Technology (BACT) to minimize emissions.

AB 2588 requires that existing facilities that emit toxic substances above a specified level prepare a toxic-emission inventory, prepare a risk assessment if emissions are significant, notify the public of significant risk levels, and prepare and implement risk reduction measures. CARB has adopted diesel exhaust control measures and more stringent emission standards for various on-road mobile sources of emissions, including transit buses and off-road diesel equipment (e.g., tractors, generators).

These rules and standards provide for:

- More stringent emission standards for some new urban bus engines, beginning with 2002 model year engines.
- Zero-emission bus demonstration and purchase requirements applicable to transit agencies
- Reporting requirements under which transit agencies must demonstrate compliance with the urban transit bus fleet rule.

✓ **AB 1493 (Pavley)**

AB 1493 (Pavley) enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce greenhouse gases emitted by passenger vehicles and light duty trucks. Regulations adopted by CARB would apply to 2009 and later model year vehicles. CARB estimated that the regulation would reduce climate change emissions from light duty passenger vehicles by an estimated 18 percent in 2020 and by 27 percent in 2030 [Association of Environmental Professionals (AEP) 2007)]. In 2005, the CARB requested a waiver from U.S. EPA to enforce the regulation, as required under the CAA. Despite the fact that no waiver had ever been denied over a 40-year period, the then Administrator of the EPA sent Governor Schwarzenegger a letter in December 2007, indicating he had denied the waiver. On March 6, 2008, the waiver denial was formally issued in the Federal Register. Governor Schwarzenegger and several other states immediately filed suit against the federal government to reverse that decision. On January 21, 2009, CARB requested that EPA reconsider denial of the waiver. EPA scheduled a re-hearing on March 5, 2009. On June 30, 2009, EPA granted a waiver of CAA preemption to California for its greenhouse gas emission standards for motor vehicles beginning with the 2009 model year.

✓ **Assembly Bill 32 (California Global Warming Solutions Act of 2006)**

California passed the California Global Warming Solutions Act of 2006 (AB 32; California Health and Safety Code Division 25.5, Sections 38500 - 38599). AB 32 establishes regulatory, reporting, and market mechanisms to achieve quantifiable reductions in GHG emissions and establishes a cap on statewide GHG emissions. AB 32 required that statewide GHG emissions be reduced to 1990 levels by 2020. December 31, 2020 is the deadline for achieving the 2020 GHG emissions cap. To effectively implement the cap, AB 32 directs CARB to develop and implement regulations to reduce statewide GHG emissions from stationary sources. AB 32 specifies that regulations adopted in response to AB 1493 should be used to address GHG emissions from vehicles. However, AB 32 also includes language stating that if the AB 1493 regulations cannot be implemented, then CARB should develop new regulations to control vehicle GHG emissions under the authorization of AB 32.

AB 32 requires CARB to adopt a quantified cap on GHG emissions representing 1990 emissions levels and disclose how it arrived at the cap; institute a schedule to meet the emissions cap; and develop tracking, reporting, and enforcement mechanisms to ensure that the state reduces GHG emissions enough to meet the cap. AB 32 also includes guidance on instituting emissions reductions in an economically efficient manner, along with conditions

to ensure that businesses and consumers are not unfairly affected by the reductions. Using these criteria to reduce statewide GHG emissions to 1990 levels by 2020 would represent an approximate 25 to 30 percent reduction in current emissions levels. However, CARB has discretionary authority to seek greater reductions in more significant and growing GHG sectors, such as transportation, as compared to other sectors that are not anticipated to significantly increase emissions.

CARB's 2017 Climate Change Scoping Plan builds on the efforts and plans encompassed in the initial Scoping Plan adopted in December of 2008. The current plan has identified new policies and actions to accomplish the State's 2030 GHG limit.

✓ **Senate Bill 375**

SB 375, signed in September 2008 (Chapter 728, Statutes of 2008), aligns regional transportation planning efforts, regional GHG reduction targets, and land use and housing allocation. SB 375 requires Metropolitan Planning Organizations (MPOs) to adopt a sustainable communities strategy (SCS) or alternative planning strategy (APS) that will prescribe land use allocation in that MPO's regional transportation plan. CARB, in consultation with MPOs, has provided each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region for the years 2020 and 2035. For the Fresno Council of Governments(FCOG), CARB set targets at six (6) percent per capita decrease in 2020 and a thirteen (13) percent per capita decrease in 2035 from a base year of 2018. FCOG 2022 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), which was adopted in July 2022, projects that the Fresno County region would achieve the prescribed emissions targets.

This law also extends the minimum time period for the regional housing needs allocation cycle from five years to eight years for local governments located within an MPO that meets certain requirements. City or county land use policies (including general plans) are not required to be consistent with the regional transportation plan (and associated SCS or APS). However, new provisions of CEQA incentivize (through streamlining and other provisions) qualified projects that are consistent with an approved SCS or APS, categorized as "transit priority projects."

✓ **Executive Order B-30-15**

Executive Order B-30-15, which was signed by Governor Brown in 2016, establishes a California greenhouse gas reduction target of 40 percent below 1990 levels by 2030 to ensure California meets its target of reducing greenhouse gas emissions to 80 percent below 1990 levels by 2050. Executive Order B-30-15 requires MPO's to implement measures that will achieve reductions of greenhouse gas emissions to meet the 2030 and 2050 greenhouse gas emissions reductions targets.

✓ **California Global Warming Solutions Act of 2006: emissions limit, or SB 32**

SB 32 is a California Senate bill expanding upon AB 32 to reduce greenhouse gas (GHG) emissions. SB 32 was signed into law on September 8, 2016, by Governor Brown. SB 32 sets into law the mandated reduction target in GHG emissions as written into Executive Order B-30-15. SB 32 requires that there be a reduction in GHG emissions to 40% below the 1990 levels by 2030. Greenhouse gas emissions include carbon dioxide, methane, nitrous oxide, sulfur hexafluoride, hydrofluorocarbons, and perfluorocarbons. The California Air Resources Board (CARB) is responsible for ensuring that California meets this goal. The provisions of SB 32 were added to Section 38566 of the Health and Safety Code subsequent to the bill's approval. The bill went into effect January 1, 2017. SB 32 builds onto Assembly Bill (AB) 32 written by Senator Fran Pavley and Assembly Speaker Fabian Nunez passed into law on September 27, 2006. AB 32 required California to reduce greenhouse gas emissions to 1990 levels by 2020 and SB 32 continues that timeline to reach the targets set in Executive Order B-30-15. SB 32 provides another intermediate target between the 2020 and 2050 targets set in Executive Order S-3-05.

### 1.2.5 *Regional Agencies*

✓ **San Joaquin Valley Air Pollution Control District**

The SJVAPCD is the agency responsible for monitoring and regulating air pollutant emissions from stationary, area, and indirect sources within Fresno County and throughout the SJVAB. The District also has responsibility for monitoring air quality and setting and enforcing limits for source emissions. CARB is the agency with the legal responsibility for regulating mobile source emissions. The District is precluded from such activities under State law.

The District was formed in mid-1991 and prepared and adopted the San Joaquin Valley Air Quality Attainment Plan (AQAP), dated January 30, 1992, in response to the requirements of the State CCAA. The CCAA requires each non-attainment district to reduce pertinent air contaminants by at least five percent (5%) per year until new, more stringent, 1988 State air quality standards are met.

Activities of the SJVAPCD include the preparation of plans for the attainment of ambient air quality standards, adoption and enforcement of rules and regulations concerning sources of air pollution, issuance of permits for stationary sources of air pollution, inspection of stationary sources of air pollution and response to citizen complaints, monitoring of ambient air quality and meteorological conditions, and implementation of programs and regulations required by the FCAA and CCAA.

The SJVAPCD has prepared the following State Implementation Plans to address ozone, PM-10 and PM2.5 that currently apply to non-attainment areas:

- The 2016 Ozone Plan (2008 standard) was adopted by SJVAPCD on June 16, 2016 and subsequently adopted by ARB on July 21, 2016.

AGENDA ITEM NO. 16.

- The 2013 1-Hour Ozone Plan (revoked 1997 standard) was adopted by the SJVAPCD on September 19, 2013. EPA withdrew its approval of the plan due to litigation. The District plans to submit a "redesignation substitute" to EPA to maintain its attainment status for this revoked ozone standard.
- The 2007 PM-10 Maintenance Plan (as revised in 2015) was approved by EPA on July 8, 2016 (effective September 30, 2016).
- The 2012 PM2.5 Plan (as revised in 2015) was approved by EPA on August 16, 2016 (effective September 30, 2016).

The SJVAPCD Plans identified above represent SJVAPCD's plan to achieve both state and federal air quality standards. The regulations and incentives contained in these documents must be legally enforceable and permanent. These plans break emissions reductions and compliance into different emissions source categories.

The SJVAPCD also prepared the *Guide for Assessing and Mitigation Air Quality Impacts* (GAMAQI), dated March 19, 2015. The GAMAQI is an advisory document that provides Lead Agencies, consultants, and project applicants with analysis guidance and uniform procedures for addressing air quality impacts in environmental documents. Local jurisdictions are not required to utilize the methodology outlined therein. This document describes the criteria that SJVAPCD uses when reviewing and commenting on the adequacy of environmental documents. It recommends thresholds for determining whether or not projects would have significant adverse environmental impacts, identifies methodologies for predicting project emissions and impacts, and identifies measures that can be used to avoid or reduce air quality impacts.

### 1.2.6 *Regional Regulations*

The SJVAPCD has adopted numerous rules and regulations to implement its air quality plans. Following, are significant rules that will apply to the Project.

✓ **Regulation VIII – Fugitive PM10 Prohibitions**

Regulation VIII is comprised of District Rules 8011 through 8081, which are designed to reduce $PM_{10}$ emissions (predominantly dust/dirt) generated by human activity, including construction and demolition activities, road construction, bulk materials storage, paved and unpaved roads, carryout and track out, landfill operations, etc. The proposed Project will be required to comply with this regulation. Regulation VIII control measures are provided below:

1. *All disturbed areas, including storage piles, which are not being actively utilized for construction purposes, shall be effectively stabilized of dust emissions using water, chemical stabilizer/suppressant, covered with a tarp or other suitable cover or vegetative ground cover.*
2. *All on-site unpaved roads and off-site unpaved access roads shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant.*

3. *All land clearing, grubbing, scraping, excavation, land leveling, grading, cut & fill, and demolition activities shall be effectively controlled of fugitive dust emissions utilizing application of water or by presoaking.*
4. *When materials are transported off-site, all material shall be covered, or effectively wetted to limit visible dust emissions, and at least six inches of freeboard space from the top of the container shall be maintained.*
5. *All operations shall limit or expeditiously remove the accumulation of mud or dirt from adjacent public streets at the end of each workday. The use of dry rotary brushes is expressly prohibited except where preceded or accompanied by sufficient wetting to limit the visible dust emissions. Use of blower devices is expressly forbidden.*
6. *Following the addition of materials to, or the removal of materials from, the surface of outdoor storage piles, said piles shall be effectively stabilized of fugitive dust emissions utilizing sufficient water or chemical stabilizer/suppressant.*
7. *Within urban areas, track out shall be immediately removed when it extends 50 or more feet from the site and at the end of each workday.*

✓ **Rule 8021 – Construction, Demolition, Excavation, and Other Earthmoving Activities**

District Rule 8021 requires owners or operators of construction projects to submit a Dust Control Plan to the District if at any time the project involves non-residential developments of five or more acres of disturbed surface area or moving, depositing, or relocating of more than 2,500 cubic yards per day of bulk materials on at least three days of the project or residential projects which include 10 or more acres of disturbed surface area. The proposed Project will meet these criteria and will be required to submit a Dust Control Plan to the District in order to comply with this rule.

✓ **Rule 4641 – Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations**

If asphalt paving will be used, then paving operations of the proposed Project will be subject to Rule 4641. This rule applies to the manufacture and use of cutback asphalt, slow cure asphalt and emulsified asphalt for paving and maintenance operations.

✓ **Rule 9510 – Indirect Source Review (ISR)**

The purpose of this rule is to fulfill the District's emission reduction commitments in the PM10 and Ozone Attainment Plans, achieve emission reductions from construction activities, and to provide a mechanism for reducing emissions from the construction of and use of development projects through off-site measures. The rule is expected to reduce nitrogen oxides and particulates throughout the San Joaquin Valley by more than 10 tons per day.

### 1.2.7 *Local Plans*

✓ **City of Clovis General Plan**

California State Law requires every city and county to adopt a comprehensive General Plan to guide its future development. The General Plan essentially serves as a "constitution for development"— the document that serves as the foundation for all land use decisions. The City of Clovis 2035 General Plan Update (2014) includes various elements, including air quality and greenhouse gases, that address local concerns and provides goals and policies to achieve its development goals.

# 2.0 Environmental Setting

This section describes existing air quality within the San Joaquin Valley Air Basin and in Fresno County, including the identification of air pollutant standards, meteorological and topological conditions affecting air quality, and current air quality conditions. Air quality is described in relation to ambient air quality standards for criteria pollutants such as, ozone, carbon monoxide, and particulate matter. Air quality can be directly affected by the type and density of land use change and population growth in urban and rural areas.

## 2.1 Geographical Location

The SJVAB is comprised of eight counties: Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, and Tulare. Encompassing 24,840 square miles, the San Joaquin Valley is the second largest air basin in California. Cumulatively, counties within the Air Basin represent approximately 16 percent of the State's geographic area. The Air Basin is bordered by the Sierra Nevada Mountains on the east (8,000 to 14,492 feet in elevation), the Coastal Range on the west (4,500 feet in elevation), and the Tehachapi Mountains on the south (9,000 feet elevation). The San Joaquin Valley is open to the north extending to the Sacramento Valley Air Basin.

## 2.2 Topographic Conditions

Fresno County is located within the San Joaquin Valley Air Basin [as determined by the California Air Resources Board (CARB)]. Air basins are geographic areas sharing a common "air shed." A description of the Air Basin in the County, as designated by CARB, is provided in the paragraph below. Air pollution is directly related to the region's topographic features, which impact air movement within the Basin.

Wind patterns within the SJVAB result from marine air that generally flows into the Basin from the San Joaquin River Delta. The Coastal Range hinders wind access into the Valley from the west, the Tehachapi's prevent southerly passage of airflow, and the high Sierra Nevada Mountain Range provides a significant barrier to the east. These topographic features result in weak airflow that becomes restricted vertically by high barometric pressure over the Valley. As a result, the SJVAB is highly susceptible to pollutant accumulation over time. Most of the surrounding mountains are above the normal height of summer inversion layers (1,500-3,000 feet).

## 2.3 Climate Conditions

Fresno is located in one of the most polluted air basins in the country. Temperature inversions can trap air within the Valley, thereby preventing the vertical dispersal of air pollutants. In addition to topographic conditions, the local climate can also contribute to air quality problems. Climate in Fresno is characterized by warm, dry summers and cool winters with significant Tule fog.

Ozone, classified as a "regional" pollutant, often afflicts areas downwind of the original source of precursor emissions. Ozone can be easily transported by winds from a source area. Peak ozone levels tend to be higher in the southern portion of the Valley, as the prevailing summer winds sweep precursors downwind of northern source areas before concentrations peak. The separate designations reflect the fact that ozone precursor transport depends on daily meteorological conditions.

Other primary pollutants, carbon monoxide (CO), for example, may form high concentrations when wind speed is low. During the winter, Fresno experiences cold temperatures and calm conditions that increase the likelihood of a climate conducive to high CO concentrations.

Precipitation and fog tend to reduce or limit some pollutant concentrations. Ozone needs sunlight for its formation, and clouds and fog block the required radiation. CO is slightly water-soluble, so precipitation and fog tends to "reduce" CO concentrations in the atmosphere. PM10 is somewhat "washed" from the atmosphere with precipitation. Precipitation in the San Joaquin Valley is strongly influenced by the position of the semi-permanent subtropical high-pressure belt located off the Pacific coast. In the winter, this high- pressure system moves southward, allowing Pacific storms to move through the San Joaquin Valley. These storms bring in moist, maritime air that produces considerable precipitation on the western, upslope side of the Coast Ranges. Significant precipitation also occurs on the western side of the Sierra Nevada. On the valley floor, however, there is some down slope flow from the Coast Ranges and the resultant evaporation of moisture from associated warming results in a minimum of precipitation. Nevertheless, the majority of the precipitation falling in the San Joaquin Valley is produced by those storms during the winter. Precipitation during the summer months is in the form of convective rain showers and is rare. It is usually associated with an influx of moisture into the San Joaquin Valley through the San Francisco area during an anomalous flow pattern in the lower layers of the atmosphere. Although the hourly rates of precipitation from these storms may be high, their rarity keeps monthly totals low.

Precipitation on the San Joaquin Valley floor and in the Sierra Nevada decreases from north to south. Stockton in the north receives about 20 inches of precipitation per year, Fresno in the center, receives about 10 inches per year, and Bakersfield at the southern end of the valley receives less than 6 inches per year. This is primarily because the Pacific storm track often passes through the northern part of the state while the southern part of the state remains protected by the Pacific High. Precipitation in the San Joaquin Valley Air Basin (SJVAB) is confined primarily to the winter months with some also occurring in late summer and fall. Average annual rainfall for the entire San Joaquin Valley is approximately 5 to 16 inches. Snowstorms, hailstorms, and ice storms occur infrequently in the San Joaquin Valley and severe occurrences of any of these are very rare.

The winds and unstable air conditions experienced during the passage of storms result in periods of low pollutant concentrations and excellent visibility. Between winter storms, high pressure and light winds allow cold moist air to pool on the San Joaquin Valley floor. This creates strong

low-level temperature inversions and very stable air conditions. This situation leads to the San Joaquin Valley's famous Tule Fogs. The formation of natural fog is caused by local cooling of the atmosphere until it is saturated (dew point temperature). This type of fog, known as radiation fog, is more likely to occur inland. Cooling may also be accomplished by heat radiation losses or by horizontal movement of a mass of air over a colder surface. This second type of fog, known as advection fog, generally occurs along the coast.

Conditions favorable to fog formation are also conditions favorable to high concentrations of CO and PM10. Ozone levels are low during these periods because of the lack of sunlight to drive the photochemical reaction. Maximum CO concentrations tend to occur on clear, cold nights when a strong surface inversion is present and large numbers of fireplaces are in use. A secondary peak in CO concentrations occurs during morning commute hours when a large number of motorists are on the road and the surface inversion has not yet broken.

The water droplets in fog, however, can act as a sink for CO and nitrogen oxides (NOx), lowering pollutant concentrations. At the same time, fog could help in the formation of secondary particulates such as ammonium sulfate. These secondary particulates are believed to be a significant contributor of winter season violations of the PM10 and PM2.5 standards.

## 2.4 Anthropogenic (Man-made) Sources

In addition to climatic conditions (wind, lack of rain, etc.), air pollution can be caused by anthropogenic or man-made sources. Air pollution in the SJVAB can be directly attributed to human activities, which cause air pollutant emissions. Human causes of air pollution in the Valley consist of population growth, urbanization (gas-fired appliances, residential wood heaters, etc.), mobile sources (i.e., cars, trucks, airplanes, trains, etc.), oil production, agriculture, and other socioeconomic activities. The most significant factors, which are accelerating the decline of air quality in the SJVAB, are the Valley's rapid population growth and its associated increases in traffic, urbanization, and industrial activity.

Carbon monoxide emissions overwhelmingly come from mobile sources in the San Joaquin Valley; on-road vehicles contributed 34 percent, while other mobile vehicles, such as trains, planes, and off-road vehicles, contribute another 20 percent in 2012 according to emission projections from the CARB. Motor vehicles account for significant portions of regional gaseous and particulate emissions. Local large employers such as industrial plants can also generate substantial regional gaseous and particulate emissions. In addition, construction and agricultural activities can generate significant temporary gaseous and particulate emissions (dust, ash, smoke, etc.).

Ozone is the result of a photochemical reaction between Oxides of nitrogen (NOx) and Reactive Organic Gases (ROG). Mobile sources contribute 84 percent of all NOx emitted from anthropogenic sources based on data provided in Appendix B of the Air District's 2016 Ozone

Plan. In addition, mobile sources contribute 26 percent of all the ROG emitted from sources within the San Joaquin Valley.

The principal factors that affect air quality in and around Fresno are:

1. The sink effect, climatic subsidence and temperature inversions and low wind speeds
2. Automobile and truck travel
3. Increases in mobile and stationary pollutants generated by local urban growth

Automobiles, trucks, buses and other vehicles using hydrocarbon (HC) fuels release exhaust products into the air. Each vehicle by itself does not release large quantities; however, when considered as a group, the cumulative effect is significant.

Other sources may not seem to fit into any one of the major categories or they may seem to fit in a number of them. These could include agricultural uses, dirt roads, animal shelters; animal feed lots, chemical plants and industrial waste disposal, which may be a source of dust, odors, or other pollutants. For Fresno County, this category includes several agriculturally related activities, such as plowing, harvesting, dusting with herbicides and pesticides and other related activities. Finally, industrial contaminants and their potential to produce various effects depend on the size and type of industry, pollution controls, local topography, and meteorological conditions. Major sources of industrial emissions in Fresno County consist of agricultural production and processing operations.

The primary contributors of PM10 emissions in the San Joaquin Valley are farming activities (22%) and road dust, both paved and unpaved (35%) in 2020 according to emission projections from the CARB. Fugitive windblown dust from “open” fields contributed 14 percent of the PM10.

The four major sources of air pollutant emissions in the SJVAB include industrial plants, motor vehicles, construction activities, and agricultural activities. Industrial plants account for significant portions of regional gaseous and particulate emissions. Motor vehicles, including those from large employers, generate substantial regional gaseous and particulate emissions. Finally, construction and agricultural activities can generate significant temporary gaseous and particulate emissions (dust, ash, smoke, etc.). In addition to these primary sources of air pollution, urban areas upwind from Fresno County including areas north and west of the San Joaquin Valley, can cause or generate emissions that are transported into Fresno County. All four of the major pollutant sources affect ambient air quality throughout the Air Basin.

### 2.4.1 *Motor Vehicles*

Automobiles, trucks, buses and other vehicles using hydrocarbon fuels release exhaust products into the air. Each vehicle by itself does not release large quantities; however, when considered as a group, the cumulative effect is significant.

### 2.4.2 *Agricultural and Other Miscellaneous Activities*

Other sources may not seem to fit into any one of the major categories or they may seem to fit in a number of them. These could include agricultural uses, dirt roads, animal shelters, animal feed lots, chemical plants and industrial waste disposal, which may be a source of dust, odors, or other pollutants. For Fresno, this category includes several agriculturally related activities, such as plowing, harvesting, dusting with herbicides and pesticides and other related activities.

### 2.4.3 *Industrial Plants*

Industrial contaminants and their potential to produce various effects depend on the size and type of industry, pollution controls, local topography, and meteorological conditions. Major sources of industrial emissions in Fresno County consist of agricultural production and processing operations.

## 2.5 San Joaquin Valley Air Basin Monitoring

SJVAPCD and the CARB maintain numerous air quality monitoring sites throughout each County in the Air Basin to measure ozone, PM2.5, and PM10. It is important to note that the federal ozone 1-hour standard was revoked by the EPA and is no longer applicable for federal standards. The closest monitoring station to the Project is located at Clovis-N Villa Avenue Monitoring Station. The station monitors particulates, ozone, carbon monoxide, and nitrogen dioxide. Monitoring data for the past three years is summarized in Table 2.

Table 3 identifies the Fresno County's attainment status. As indicated, the SJVAB is nonattainment for Ozone (1 hour and 8 hour) and PM. In accordance with the FCAA, EPA uses the design value at the time of standard promulgation to assign nonattainment areas to one of several classes that reflect the severity of the nonattainment problem; classifications range from marginal nonattainment to extreme nonattainment. The FCAA contains provisions for changing the classifications using factors such as clean air progress rates and requests from States to move areas to a higher classification.

On April 16, 2004 EPA issued a final rule classifying the SJVAB as extreme nonattainment for Ozone, effective May 17, 2004 (69 FR 20550). The (federal) 1-hour ozone standard was revoked on June 6, 2005. However, many of the requirements in the 1-hour attainment plan (SIP) continue to apply to the SJVAB. The current ozone plan is the (federal) 8-hour ozone plan adopted in 2007. The SJVAB was reclassified from a "serious" nonattainment area for the 8-hour ozone standard to "extreme" effective June 4, 2010.

## Table 2
### Maximum Pollutant Levels at Clovis
### Clovis-N Villa Monitoring Station

| Pollutant | Time Averaging | 2020 Maximums | 2021 Maximums | 2022 Maximums | Standards National | Standards State |
|---|---|---|---|---|---|---|
| Ozone ($O_3$) | 1 hour | 0.142 ppm | 0.123 ppm | 0.109 ppm | 0.119 ppm | 0.114 ppm |
| Ozone ($O_3$) | 8 hour | 0.108ppm | 0.1 ppm | 0.084 ppm | 0.070 ppm | 0.070 ppm |
| Nitrogen Dioxide ($NO_2$) | 1 hour | 54 ppm | 49 ppm | 51 ppm | 51 ppm | 60 ppm |
| Nitrogen Dioxide ($NO_2$) | Annual Average | 9 ppm | 8 ppm | 9 ppm | 8 ppm | 8 ppm |
| Particulates ($PM_{10}$) | 24 hour | 296.4 µg/m$^3$ | 281.0 µg/m$^3$ | 116.1 µg/m$^3$ | 42 µg/m$^3$ | 48 µg/m$^3$ |
| Particulates ($PM_{10}$) | Federal Annual Arithmetic Mean | 45.8 µg/m$^3$ | 37.6 µg/m$^3$ | 35.5 µg/m$^3$ | - | 18 µg/m$^3$ |
| Particulates ($PM_{2.5}$) | 24 hour | 193.7 µg/m$^3$ | 104.6 µg/m$^3$ | 41.9 µg/m$^3$ | 15.5 µg/m$^3$ | - |
| Particulates ($PM_{2.5}$) | Federal Annual Arithmetic Mean | 18.4 µg/m3 | 15.1 µg/m3 | 10.5 µg/m3 | - | 18 µg/m3 |

Source: California Air Resources Board (ADAM) Air Pollution Summaries

"-"represents insufficient data available to determine the value.

## Table 3
### Fresno County Attainment Status

| Pollutant | Designation/Classification | |
|---|---|---|
| | Federal Standards | State Standards |
| Ozone - 1 Hour | Revoked in 2005 | Nonattainment |
| Ozone - 8 Hour | Nonattainment/Extreme | No State Standard |
| PM10 | Attainment | Nonattainment |
| PM2.5 | Nonattainment | Nonattainment |
| Carbon Monoxide | Unclassified/Attainment | Unclassified |
| Nitrogen Dioxide | Unclassified/Attainment | Attainment |
| Sulfur Dioxide | Unclassified/Attainment | Attainment |
| Lead (Particulate) | Unclassified/Attainment | Attainment |
| Hydrogen Sulfide | No Federal Standard | Unclassified |
| Sulfates | No Federal Standard | Attainment |
| Visibility Reducing Particles | No Federal Standard | Unclassified |

Source: CARB Website, 2023

a. Though the Valley was initially classified as serious nonattainment for the 1997 8-hour ozone standard, EPA approved Valley reclassification to extreme nonattainment in the Federal Register on May 5, 2010 (effective June 4, 2010).
Notes:
National Designation Categories
Non-Attainment Area: Any area that does not meet (or that contributes to ambient air quality in a nearby area that does not meet) the national primary or secondary ambient air quality standard for the pollutant.

Unclassified/Attainment Area: Any area that cannot be classified on the basis of available information as meeting or not meeting the national primary or secondary ambient air quality standard for the pollutant or meets the national primary or secondary ambient air quality standard for the pollutant.

State Designation Categories
Unclassified: A pollutant is designated unclassified if the data are incomplete and do not support a designation of attainment or non-attainment.

Attainment: A pollutant is designated attainment if the State standard for that pollutant was not violated at any site in the area during a three-year period.

Non-attainment: A pollutant is designated non-attainment if there was at least one violation of a State standard for that pollutant in the area.

Non-Attainment/Transitional: A subcategory of the non-attainment designation. An area is designated non-attainment/transitional to signify that the area is close to attaining the standard for the pollutant.

## 2.6 Air Quality Standards

The FCAA, first adopted in 1963, and periodically amended since then, established National Ambient Air Quality Standards (NAAQS). A set of 1977 amendments determined a deadline for the attainment of these standards. That deadline has since passed. Other CAA amendments, passed in 1990, share responsibility with the State in reducing emissions from mobile sources.

In 1988, the State of California passed the CCAA (State 1988 Statutes, Chapter 568), which set forth a program for achieving more stringent California Ambient Air Quality Standards. The CARB implements State ambient air quality standards, as required in the CCAA, and cooperates with the federal government in implementing pertinent sections of the FCAA Amendments (FCAAA). Further, CARB regulates vehicular emissions throughout the State. The SJVAPCD regulates stationary sources, as well as some mobile sources. Attainment of the more stringent State PM10 Air Quality Standards is not currently required.

The EPA uses six "criteria pollutants" as indicators of air quality and has established for each of them a maximum concentration above which adverse effects on human health may occur. These threshold concentrations are called the NAAQS.

The SJVAPCD operates regional air quality monitoring networks that provide information on average concentrations of pollutants for which State or federal agencies have established ambient air quality standards. Descriptions of nine pollutants of importance in Fresno County follow.

### 2.6.1 *Ozone (1-hour and 8-hour)*

The most severe air quality problem in the Air Basin is the high level of ozone. Ozone occurs in two layers of the atmosphere. The layer surrounding the earth's surface is the troposphere. Here, ground level, or "bad" ozone, is an air pollutant that damages human health, vegetation, and many common materials. It is a key ingredient of urban smog. The troposphere extends to a level about 10 miles up, where it meets the second layer, the stratosphere. The stratospheric, or "good" ozone layer, extends upward from about 10 to 30 miles and protects life on earth from the sun's harmful ultraviolet rays.

"Bad" ozone is what is known as a photochemical pollutant. It needs reactive organic gases (ROG), NOx, and sunlight. ROG and NOx are emitted from various sources throughout Fresno County. In order to reduce ozone concentrations, it is necessary to control the emissions of these ozone precursors.

Significant ozone formation generally requires an adequate amount of precursors in the atmosphere and several hours in a stable atmosphere with strong sunlight. High ozone concentrations can form over large regions when emissions from motor vehicles and stationary

sources are carried hundreds of miles from their origins.

Ozone is a regional air pollutant. It is generated over a large area and is transported and spread by wind. Ozone, the primary constituent of smog, is the most complex, difficult to control, and pervasive of the criteria pollutants. Unlike other pollutants, ozone is not emitted directly into the air by specific sources. Ozone is created by sunlight acting on other air pollutants (called precursors), specifically NOx and ROG. Sources of precursor gases to the photochemical reaction that form ozone number in the thousands. Common sources include consumer products, gasoline vapors, chemical solvents, and combustion products of various fuels. Originating from gas stations, motor vehicles, large industrial facilities, and small businesses such as bakeries and dry cleaners, the ozone-forming chemical reactions often take place in another location, catalyzed by sunlight and heat. High ozone concentrations can form over large regions when emissions from motor vehicles and stationary sources are carried hundreds of miles from their origins. Approximately 50 million people lived in counties with air quality levels above the EPA's health-based national air quality standard in 1994. The highest levels of ozone were recorded in Los Angeles, closely followed by the San Joaquin Valley. High levels also persist in other heavily populated areas, including the Texas Gulf Coast and much of the Northeast.

While the ozone in the upper atmosphere absorbs harmful ultraviolet light, ground-level ozone is damaging to the tissues of plants, animals, and humans, as well as to a wide variety of inanimate materials such as plastics, metals, fabrics, rubber, and paints. Societal costs from ozone damage include increased medical costs, the loss of human and animal life, accelerated replacement of industrial equipment, and reduced crop yields.

- ✓ ***Health Effects***

  While ozone in the upper atmosphere protects the earth from harmful ultraviolet radiation, high concentrations of ground-level ozone can adversely affect the human respiratory system. Many respiratory ailments, as well as cardiovascular disease, are aggravated by exposure to high ozone levels. Ozone also damages natural ecosystems, such as: forests and foothill communities; agricultural crops; and some man-made materials, such as rubber, paint, and plastic. High levels of ozone may negatively affect immune systems, making people more susceptible to respiratory illnesses, including bronchitis and pneumonia. Ozone accelerates aging and exacerbates pre-existing asthma and bronchitis and, in cases with high concentrations, can lead to the development of asthma in active children. Active people, both children and adults, appear to be more at risk from ozone exposure than those with a low level of activity. Additionally, the elderly and those with respiratory disease are also considered sensitive populations for ozone.

  People who work or play outdoors are at a greater risk for harmful health effects from ozone. Children and adolescents are also at greater risk because they are more likely than adults to spend time engaged in vigorous activities. Research indicates that children under 12 years of age spend nearly twice as much time outdoors daily than adults. Teenagers spend at least

twice as much time as adults in active sports and outdoor activities. In addition, children inhale more air per pound of body weight than adults, and they breathe more rapidly than adults. Children are less likely than adults to notice their own symptoms and avoid harmful exposures.

Ozone is a powerful oxidant—it can be compared to household bleach, which can kill living cells (such as germs or human skin cells) upon contact. Ozone can damage the respiratory tract, causing inflammation and irritation, and it can induce symptoms such as coughing, chest tightness, shortness of breath, and worsening of asthmatic symptoms. Ozone in sufficient doses increases the permeability of lung cells, rendering them more susceptible to toxins and microorganisms. Exposure to levels of ozone above the current ambient air quality standard leads to lung inflammation and lung tissue damage and a reduction in the amount of air inhaled into the lungs.

The CARB found ozone standards in Fresno County nonattainment of Federal and State standards.

### 2.6.2 *Suspended PM (PM10 and PM2.5)*

Particulate matter pollution consists of very small liquid and solid particles that remain suspended in the air for long periods. Some particles are large or concentrated enough to be seen as soot or smoke. Others are so small they can be detected only with an electron microscope. Particulate matter is a mixture of materials that can include smoke, soot, dust, salt, acids, and metals. Particulate matter is emitted from stationary and mobile sources, including diesel trucks and other motor vehicles; power plants; industrial processes; wood-burning stoves and fireplaces; wildfires; dust from roads, construction, landfills, and agriculture; and fugitive windblown dust. PM10 refers to particles less than or equal to 10 microns in aerodynamic diameter. PM2.5 refers to particles less than or equal to 2.5 microns in aerodynamic diameter and are a subset of PM10. Particulates of concern are those that are 10 microns or less in diameter. These are small enough to be inhaled, pass through the respiratory system and lodge in the lungs, possibly leading to adverse health effects.

In the western United States, there are sources of PM10 in both urban and rural areas. Because particles originate from a variety of sources, their chemical and physical compositions vary widely. The composition of PM10 and PM2.5 can also vary greatly with time, location, the sources of the material and meteorological conditions. Dust, sand, salt spray, metallic and mineral particles, pollen, smoke, mist, and acid fumes are the main components of PM10 and PM2.5. In addition to those listed previously, secondary particles can also be formed as precipitates from chemical and photochemical reactions of gaseous sulfur dioxide (SO2) and NOx in the atmosphere to create sulfates (SO4) and nitrates (NO3). Secondary particles are of greatest concern during the winter months where low inversion layers tend to trap the precursors of secondary particulates.

The District's 2008 PM2.5 Plan built upon the aggressive emission reduction strategy adopted in the 2007 Ozone Plan and strives to bring the valley into attainment status for the 1997 NAAQS for PM2.5. The District's 2012 PM2.5 Plan provides multiple control strategies to reduce emissions of PM2.5 and other pollutants that form PM2.5. The plan's comprehensive control strategy includes regulatory actions, incentive programs, technology advancement, policy and legislative positions, public outreach, participation and communication, and additional strategies.

✓ ***Health Effects***

PM10 and PM2.5 particles are small enough—about one-seventh the thickness of a human hair, or smaller—to be inhaled and lodged in the deepest parts of the lung where they evade the respiratory system's natural defenses. Health problems begin as the body reacts to these foreign particles. Acute and chronic health effects associated with high particulate levels include the aggravation of chronic respiratory diseases, heart and lung disease, and coughing, bronchitis, and respiratory illnesses in children. Recent mortality studies have shown a statistically significant direct association between mortality and daily concentrations of particulate matter in the air. Non-health-related effects include reduced visibility and soiling of buildings. PM10 can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. PM10 and PM2.5 can aggravate respiratory disease and cause lung damage, cancer, and premature death.

Although particulate matter can cause health problems for everyone, certain people are especially vulnerable to adverse health effects of PM10. These "sensitive populations" include children, the elderly, exercising adults, and those suffering from chronic lung disease such as asthma or bronchitis. Of greatest concern are recent studies that link PM10 exposure to the premature death of people who already have heart and lung disease, especially the elderly. Acidic PM10 can also damage manmade materials and is a major cause of reduced visibility in many parts of the United States.

The CARB found PM10 standards in Fresno County in attainment of Federal standards and nonattainment for State standards. The CARB found PM2.5 standards in Fresno County nonattainment of Federal and State standards.

### 2.6.3 *Carbon Monoxide (CO)*

Carbon monoxide (CO) is emitted by mobile and stationary sources as a result of incomplete combustion of hydrocarbons or other carbon-based fuels. CO is an odorless, colorless, poisonous gas that is highly reactive. CO is a byproduct of motor vehicle exhaust, contributes more than two thirds of all CO emissions nationwide. In cities, automobile exhaust can cause as much as 95 percent of all CO emissions. These emissions can result in high concentrations of CO, particularly in local areas with heavy traffic congestion. Other sources of CO emissions include industrial

processes and fuel combustion in sources such as boilers and incinerators. Despite an overall downward trend in concentrations and emissions of CO, some metropolitan areas still experience high levels of CO.

✓ ***Health Effects***

CO enters the bloodstream and binds more readily to hemoglobin than oxygen, reducing the oxygen-carrying capacity of blood and thus reducing oxygen delivery to organs and tissues. The health threat from CO is most serious for those who suffer from cardiovascular disease. Healthy individuals are also affected but only at higher levels of exposure. At high concentrations, CO can cause heart difficulties in people with chronic diseases and can impair mental abilities. Exposure to elevated CO levels is associated with visual impairment, reduced work capacity, reduced manual dexterity, poor learning ability, difficulty performing complex tasks, and in prolonged, enclosed exposure, death.

The adverse health effects associated with exposure to ambient and indoor concentrations of CO are related to the concentration of carboxyhemoglobin (COHb) in the blood. Health effects observed may include an early onset of cardiovascular disease; behavioral impairment; decreased exercise performance of young, healthy men; reduced birth weight; sudden infant death syndrome (SIDS); and increased daily mortality rate.

Most of the studies evaluating adverse health effects of CO on the central nervous system examine high-level poisoning. Such poisoning results in symptoms ranging from common flu and cold symptoms (shortness of breath on mild exertion, mild headaches, and nausea) to unconsciousness and death.

The CARB found CO standards in Fresno County as unclassified/attainment of Federal standards and attainment for State standards.

### 2.6.4 *Nitrogen Dioxide (NO2)*

Nitrogen oxides (NOx) is a family of highly reactive gases that are primary precursors to the formation of ground-level ozone and react in the atmosphere to form acid rain. NOx is emitted from combustion processes in which fuel is burned at high temperatures, principally from motor vehicle exhaust and stationary sources such as electric utilities and industrial boilers. A brownish gas, NOx is a strong oxidizing agent that reacts in the air to form corrosive nitric acid, as well as toxic organic nitrates. EPA regulates only nitrogen dioxide (NO2) as a surrogate for this family of compounds because it is the most prevalent form of NOx in the atmosphere that is generated by anthropogenic (human) activities.[1]

1 United States Environmental Protection Agency (EPA), Nitrogen Oxides (NOx). Why and How They Are Controlled, 456/F-99-006R, November 2019

AGENDA ITEM NO. 16.

✓ ***Health Effects***

NOx is an ozone precursor that combines with Reactive Organic Gases (ROG) to form ozone. See the ozone section above for a discussion of the health effects of ozone.

Direct inhalation of NOx can also cause a wide range of health effects. NOx can irritate the lungs, cause lung damage, and lower resistance to respiratory infections such as influenza. Short-term exposures (e.g., less than 3 hours) to low levels of nitrogen dioxide (NO2) may lead to changes in airway responsiveness and lung function in individuals with preexisting respiratory illnesses. These exposures may also increase respiratory illnesses in children. Long-term exposures to NO2 may lead to increased susceptibility to respiratory infection and may cause irreversible alterations in lung structure. Other health effects associated with NOx are an increase in the incidence of chronic bronchitis and lung irritation. Chronic exposure to NO2 may lead to eye and mucus membrane aggravation, along with pulmonary dysfunction. NOx can cause fading of textile dyes and additives, deterioration of cotton and nylon, and corrosion of metals due to production of particulate nitrates. Airborne NOx can also impair visibility. NOx is a major component of acid deposition in California. NOx may affect both terrestrial and aquatic ecosystems. NOx in the air is a potentially significant contributor to a number of environmental effects such as acid rain and eutrophication in coastal waters. Eutrophication occurs when a body of water suffers an increase in nutrients that reduce the amount of oxygen in the water, producing an environment that is destructive to fish and other animal life.

NO2 is toxic to various animals as well as to humans. Its toxicity relates to its ability to combine with water to form nitric acid in the eye, lung, mucus membranes, and skin. Studies of the health impacts of NO2 include experimental studies on animals, controlled laboratory studies on humans, and observational studies.

In animals, long-term exposure to NOx increases susceptibility to respiratory infections, lowering their resistance to such diseases as pneumonia and influenza. Laboratory studies show susceptible humans, such as asthmatics, exposed to high concentrations of NO2, can suffer lung irritation and, potentially, lung damage. Epidemiological studies have also shown associations between NO2 concentrations and daily mortality from respiratory and cardiovascular causes as well as hospital admissions for respiratory conditions.

NOx contributes to a wide range of environmental effects both directly and when combined with other precursors in acid rain and ozone. Increased nitrogen inputs to terrestrial and wetland systems can lead to changes in plant species composition and diversity. Similarly, direct nitrogen inputs to aquatic ecosystems such as those found in estuarine and coastal waters can lead to eutrophication as discussed above. Nitrogen, alone or in acid rain, also can acidify soils and surface waters. Acidification of soils causes the loss of essential plant nutrients and increased levels of soluble aluminum, which is toxic to plants. Acidification of surface waters creates conditions of low pH and levels of aluminum that are toxic to fish and other aquatic organisms.

The CARB found NO2 standards in Fresno County as unclassified/attainment of Federal standards and attainment for State standards.

### 2.6.5 *Sulfur Dioxide (SO2)*

The major source of sulfur dioxide (SO2) is the combustion of high-sulfur fuels for electricity generation, petroleum refining and shipping. High concentrations of SO2 can result in temporary breathing impairment for asthmatic children and adults who are active outdoors. Short-term exposures of asthmatic individuals to elevated SO2 levels during moderate activity may result in breathing difficulties that can be accompanied by symptoms such as wheezing, chest tightness, or shortness of breath. Other effects that have been associated with longer-term exposures to high concentrations of SO2, in conjunction with high levels of PM, include aggravation of existing cardiovascular disease, respiratory illness, and alterations in the lungs' defenses. SO2 also is a major precursor to PM2.5, which is a significant health concern and a main contributor to poor visibility. In humid atmospheres, sulfur oxides can react with vapor to produce sulfuric acid, a component of acid rain.

The CARB found SO2 standards in Fresno County as unclassified for Federal standards and attainment for State standards.

### 2.6.6 *Lead (Pb)*

Lead, a naturally occurring metal, can be a constituent of air, water, and the biosphere. Lead is neither created nor destroyed in the environment, so it essentially persists forever. Lead was used until recently to increase the octane rating in automobile fuel. Since the 1980s, lead has been phased out in gasoline, reduced in drinking water, reduced in industrial air pollution, and banned or limited in consumer products. Gasoline-powered automobile engines were a major source of airborne lead through the use of leaded fuels; however, the use of leaded fuel has been mostly phased out. Since this has occurred the ambient concentrations of lead have dropped dramatically.

Exposure to lead occurs mainly through inhalation of air and ingestion of lead in food, water, soil, or dust. It accumulates in the blood, bones, and soft tissues and can adversely affect the kidneys, liver, nervous system, and other organs. Excessive exposure to lead may cause neurological impairments such as seizures, mental retardation, and behavioral disorders. Even at low doses, lead exposure is associated with damage to the nervous systems of fetuses and young children. Effects on the nervous systems of children are one of the primary health risk concerns from lead. In high concentrations, children can even suffer irreversible brain damage and death. Children 6 years old and under are most at risk, because their bodies are growing quickly.

The CARB found Lead standards in Fresno County as unclassified/attainment of Federal standards and attainment for State standards.

### 2.6.7 *Toxic Air Contaminants (TAC)*

In addition to the criteria pollutants discussed above, Toxic Air Contaminants (TAC) are another group of pollutants of concern. TAC are injurious in small quantities and are regulated despite the absence of criteria documents. The identification, regulation and monitoring of TAC is relatively recent compared to that for criteria pollutants. Unlike criteria pollutants, TAC are regulated on the basis of risk rather than specification of safe levels of contamination. The ten TAC are acetaldehyde, benzene, 1,3-butadiene, carbon tetrachloride, hexavalent chromium, para-dichlorobenzene, formaldehyde, methylene chloride, perchloroethylene, and diesel particulate matter (diesel PM). Caltrans' guidance for transportation studies references the Federal Highway Administration (FHWA) memorandum titled "Interim Guidance on Air Toxic Analysis in NEPA Documents" which discusses emissions quantification of six "priority" compounds of 21 Mobile Source Air Toxics (MSAT) identified by the United States Environmental Protection Agency (USEPA). The six "priority" compounds are diesel exhaust (particulate matter and organic gases), benzene, 1,3-butadiene, acetaldehyde, formaldehyde, and acrolein.

Some studies indicate that diesel PM poses the greatest health risk among the TAC listed above. A 10-year research program (California Air Resources Board 1998) demonstrated that diesel PM from diesel-fueled engines is a human carcinogen and that chronic (long-term) inhalation exposure to diesel PM poses a chronic health risk. In addition to increasing the risk of lung cancer, exposure to diesel exhaust can have other health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. Diesel exhaust is a major source of fine particulate pollution as well, and studies have linked elevated particle levels in the air to increased hospital admissions, emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems.

Diesel PM differs from other TAC in that it is not a single substance but a complex mixture of hundreds of substances. Although diesel PM is emitted by diesel-fueled, internal combustion engines, the composition of the emissions varies, depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emission control system is present. Unlike the other TAC, however, no ambient monitoring data are available for diesel PM because no routine measurement method currently exists. The CARB has made preliminary concentration estimates based on a diesel PM exposure method. This method uses the CARB emissions inventory's PM10 database, ambient PM10 monitoring data, and the results from several studies to estimate concentrations of diesel PM. Table 4 depicts the CARB Handbook's recommended buffer distances associated with various types of common sources.

Existing air quality concerns within Fresno and the entire SJVAB are related to increases of regional criteria air pollutants (e.g., ozone and particulate matter), exposure to toxic air contaminants, odors, and increases in greenhouse gas emissions contributing to climate change. The primary source of ozone (smog) pollution is motor vehicles. Particulate matter is caused by dust, primarily dust generated from construction and grading activities, and smoke which is emitted from fireplaces, wood-burning stoves, and agricultural burning.

## TABLE 4
## Recommendations on Siting New Sensitive Land Uses Such As Residences, Schools, Daycare Centers, Playgrounds, or Medical Facilities*

| SOURCE CATEGORY | ADVISORY RECOMMENDATIONS |
|---|---|
| Freeways and High-Traffic Roads [1] | - Avoid siting new sensitive land uses within 500 feet of a freeway, urban roads with 100,000 vehicles/day, or rural roads with 50,000 vehicles/day. |
| Distribution Centers | - Avoid siting new sensitive land uses within 1,000 feet of a distribution center (that accommodates more than 100 trucks per day, more than 40 trucks with operating transport refrigeration units (TRUs) per day, or where TRU unit operations exceed 300 hours per week).<br><br>- Take into account the configuration of existing distribution centers and avoid locating residences and other new sensitive land uses near entry and exit points. |
| Rail Yards | - Avoid siting new sensitive land uses within 1,000 feet of a major service and maintenance rail yard.<br><br>- Within one mile of a rail yard, consider possible siting limitations and mitigation approaches. |
| Ports | - Avoid siting of new sensitive land uses immediately downwind of ports in the most heavily impacted zones. Consult local air districts or the ARB on the status of pending analyses of health risks. |
| Refineries | - Avoid siting new sensitive land uses immediately downwind of petroleum refineries. Consult with local air districts and other local agencies to determine an appropriate separation. |
| Chrome Platers | - Avoid siting new sensitive land uses within 1,000 feet of a chrome plater. |
| Dry Cleaners Using Perchloroethylene | - Avoid siting new sensitive land uses within 300 feet of any dry cleaning operation. For operations with two or more machines, provide 500 feet. For operations with 3 or more machines, consult with the local air district.<br><br>- Do not site new sensitive land uses in the same building with perchloroethylene dry cleaning operations. |
| Gasoline Dispensing Facilities | - Avoid siting new sensitive land uses within 300 feet of a large gas station (defined as a facility with a throughput of 3.6 million gallons per year or greater). A 50 foot separation is recommended for typical gas dispensing facilities. |

1: The recommendation to avoid siting new sensitive land uses within 500 feet of a freeway was identified in CARB's Air Quality and Land Use Handbook published in 2005. CARB recently published a technical advisory to the Air Quality and Land Use Handbook indicating that new research has demonstrated promising strategies to reduce pollution exposure along transportation corridors.

*Notes:
• These recommendations are advisory. Land use agencies have to balance other considerations, including housing and transportation needs, economic development priorities, and other quality of life issues.
• Recommendations are based primarily on data showing that the air pollution exposures addressed here (i.e., localized) can be reduced as much as 80% with the recommended separation.
• The relative risk for these categories varies greatly (see Table 1-2). To determine the actual risk near a particular facility, a site-specific analysis would be required. Risk from diesel PM will decrease over time as cleaner technology phases in.
• These recommendations are designed to fill a gap where information about existing facilities may not be readily available and are not designed to substitute for more specific information if it exists. The recommended distances take into account other factors in addition to available health risk data (see individual category descriptions).
• Site-specific project design improvements may help reduce air pollution exposures and should also be considered when siting new sensitive land uses.
• This table does not imply that mixed residential and commercial development in general is incompatible. Rather it focuses on known problems like dry cleaners using perchloroethylene that can be addressed with reasonable preventative actions.
• A summary of the basis for the distance recommendations can be found in the ARB Handbook: Air Quality and Land Use Handbook: A Community Health Perspective.

Source: SJVAPCD 2022

### 2.6.8 *Odors*

Typically, odors are regarded as an annoyance rather than a health hazard. However, manifestations of a person's reaction to foul odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache).

With respect to odors, the human nose is the sole sensing device. The ability to detect odors varies considerably among the population and overall is quite subjective. Some individuals have the ability to smell minute quantities of specific substances; others may not have the same sensitivity but may have sensitivities to odors of other substances. In addition, people may have different reactions to the same odor; in fact, an odor that is offensive to one person (e.g., from a fast-food restaurant) may be perfectly acceptable to another. It is also important to note that an unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. This is because of the phenomenon known as odor fatigue, in which a person can become desensitized to almost any odor and recognition only occurs with an alteration in the intensity.

Quality and intensity are two properties present in any odor. The quality of an odor indicates the nature of the smell experience. For instance, if a person describes an odor as flowery or sweet, then the person is describing the quality of the odor. Intensity refers to the strength of the odor. For example, a person may use the word "strong" to describe the intensity of an odor. Odor intensity depends on the odorant concentration in the air.

When an odorous sample is progressively diluted, the odorant concentration decreases. As this occurs, the odor intensity weakens and eventually becomes so low that the detection or recognition of the odor is quite difficult. At some point during dilution, the concentration of the odorant reaches a detection threshold. An odorant concentration below the detection threshold means that the concentration in the air is not detectable by the average human.

The intensity of an odor source's operations and its proximity to sensitive receptors influences the potential significance of odor emissions. The SJVAPCD has identified some common types of facilities that have been known to produce odors in the SJVAB. The types of facilities that are known to produce odors are shown in Table 5 along with a reasonable distance from the source within which, the degree of odors could possibly be significant. The Project does not propose any uses that would be potential odor sources; however, the information presented in Table 5 will be used as a screening level analysis to determine if the Project would be impacted by existing odor sources in the study area. Such information is presented for informational purposes, but it is noted that the environment's effect on the Project, including exposure to potential odors, would not be an impact for CEQA purposes.

**TABLE 5**
**Screening Levels for Potential Odor Sources**

| Type of Facility | Distance |
|---|---|
| Wastewater Treatment Facilities | 2 miles |
| Sanitary Landfill | 1 mile |
| Transfer Station | 1 mile |
| Compositing Facility | 1 mile |
| Petroleum Refinery | 2 miles |
| Asphalt Batch Plant | 1 mile |
| Chemical Manufacturing | 1 mile |
| Fiberglass Manufacturing | 1 mile |
| Painting/Coating Operations (e.g. auto body shops) | 1 mile |
| Food Processing Facility | 1 mile |
| Feed Lot/Dairy | 1 mile |
| Rendering Plant | 1 mile |

Source: SJVAPCD 2022

### 2.6.9 *Naturally Occurring Asbestos (NOA)*

Asbestos is a term used for several types of naturally occurring fibrous minerals found in many parts of California. The most common type of asbestos is chrysotile, but other types are also found in California. Asbestos is commonly found in ultramafic rock and near fault zones. The amount of asbestos that is typically present in these rocks' ranges from less than 1% up to approximately 25% and sometimes more. It is released from ultramafic rock when it is broken or crushed. This can happen when cars drive over unpaved roads or driveways, which are surfaced with these rocks, when land is graded for building purposes, or at quarrying operations. Asbestos is also released naturally through weathering and erosion. Once released from the rock, asbestos can become airborne and may stay in the air for long periods of time. Asbestos is hazardous and can cause lung disease and cancer dependent upon the level of exposure. The longer a person is exposed to asbestos and the greater the intensity of the exposure, the greater the chances for a health problem.

The proposed Project's construction phase may cause asbestos to become airborne due to the construction activities that will occur on site. The Project would be required to submit a Dust Control Plan under the SJVAPCD's Rule 8021.

### 2.6.10 *Greenhouse Gas Emissions*

Gases that trap heat in the atmosphere are often called greenhouse gases. Some greenhouse gases such as carbon dioxide occur naturally and are emitted to the atmosphere through natural processes and human activities. Other greenhouse gases (e.g., fluorinated gases) are created and emitted solely through human activities. The principal greenhouse gases that enter the

atmosphere because of human activities are:

- ✓ **Carbon Dioxide (CO2):** Carbon dioxide enters the atmosphere through the burning of fossil fuels (oil, natural gas, and coal), solid waste, trees and wood products, and also as a result of other chemical reactions (e.g., manufacture of cement, asphalt paving, truck trips). Carbon dioxide is also removed from the atmosphere (or "sequestered") when it is absorbed by plants as part of the biological carbon cycle.
- ✓ **Methane (CH4):** Methane is emitted during the production and transport of coal, natural gas, and oil. Methane emissions also result from livestock and other agricultural practices and by the decay of organic waste in municipal solid waste landfills.
- ✓ **Nitrous Oxide (N2O):** Nitrous oxide is emitted during agricultural and industrial activities, as well as during combustion of fossil fuels and solid waste.
- ✓ **Fluorinated Gases:** Hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride are synthetic, powerful greenhouse gases that are emitted from a variety of industrial processes. Fluorinated gases are sometimes used as substitutes for ozone-depleting substances (i.e., CFCs, HCFCs, and halons). These gases are typically emitted in smaller quantities, but because they are potent greenhouse gases, they are sometimes referred to as High Global Warming Potential gases ("High GWP gases").

# 3.0 Air-Quality Impacts

## 3.1 Methodology

The impact assessment for air quality focuses on potential effects the Project might have on air quality within the Fresno region. The SJVAPCD has established thresholds of significance for determining environmental significance. These thresholds separate a project's short-term emissions from its long-term emissions. The short-term emissions are mainly related to the construction phase of a project, which are recognized to be short in duration. The long-term emissions are primarily related to the activities that will occur indefinitely as a result of Project operations. Impacts will be evaluated both on the basis of CEQA Appendix G criteria and SJVAPCD significance criteria. The impacts to be evaluated will be those involving construction and operational emissions of criteria pollutants. The SJVAPCD has established thresholds for certain pollutants shown in Table 6.

**Table 6**
**SJVAPCD Air Quality Thresholds of Significance**

| Project Type | Ozone Precursor Emissions (tons/year) | | | | | |
|---|---|---|---|---|---|---|
| | CO | $NO_X$ | ROG | $SO_X$ | $PM_{10}$ | $PM_{2.5}$ |
| Construction Emissions | 100 | 10 | 10 | 27 | 15 | 15 |
| Operational Emissions (Permitted Equipment and Activities) | 100 | 10 | 10 | 27 | 15 | 15 |
| Operational Emissions (Non-Permitted Equipment and Activities) | 100 | 10 | 10 | 27 | 15 | 15 |

Source: SJVAPCD 2023

### 3.1.1 *CalEEMod*

CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and greenhouse gas (GHG) emissions associated with both construction and operations from a variety of land use projects. The model quantifies direct emissions from construction and operations (including vehicle use), as well as indirect emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use.

The model is an accurate and comprehensive tool for quantifying air quality impacts from land use projects throughout California. The model can be used for a variety of situations where an air quality analysis is necessary or desirable such as CEQA and NEPA documents, pre-project planning, compliance with local air quality rules and regulations, etc.

## 3.2 Short-Term Impacts

Short-term impacts are mainly related to the construction phase of a project and are recognized to be short in duration. Construction air quality impacts are generally attributable to dust and exhaust pollutants generated by equipment and vehicles. Fugitive dust is emitted both during construction activity and as a result of wind erosion over exposed earth surfaces. Clearing and earth moving activities do comprise major sources of construction dust emissions, but traffic and general disturbances of soil surfaces also generate significant dust emissions. Further, dust generation is dependent on soil type and soil moisture. Exhaust pollutants are the non-useable gaseous waste products produced during the combustion process. Engine exhaust contains CO, HC, and NOx pollutants which are harmful to the environment.

Adverse effects of construction activities cause increased dust-fall and locally elevated levels of total suspended particulate. Dust-fall can be a nuisance to neighboring properties or previously completed developments surrounding or within the Project area and may require frequent washing during the construction period.

PM10 emissions can result from construction activities of the Project. The SJVAPCD has determined that compliance with Regulation VIII and other control measures will constitute sufficient mitigation to reduce PM10 impacts to a level considered less-than significant for most development projects. Even with implementation of District Regulation VIII and District Rule 9510, large development projects may not be able to reduce project specific construction impacts below District thresholds of significance.

Ozone precursor emissions are also an impact of construction activities and can be quantified through calculations. Numerous variables factored into estimating total construction emission include: level of activity, length of construction period, number of pieces and types of equipment in use, site characteristics, weather conditions, number of construction personnel, and amount of materials to be transported onsite or offsite. Additional exhaust emissions would be associated with the transport of workers and materials. Because the specific mix of construction equipment is not presently known for this Project, construction emissions were estimated using CalEEMod Model defaults for construction equipment.

Table 7 shows the CalEEMod estimated construction emissions that would be generated from construction of the Project. Results of the analysis show that emissions generated from construction of the Project will not exceed the SJVAPCD emission thresholds.

## Table 7
### Project Construction Emissions (tons/year)

| Summary Report | CO | $NO_x$ | ROG | $SO_x$ | $PM_{10}$ | $PM_{2.5}$ | CO2e |
|---|---|---|---|---|---|---|---|
| Project Construction Emissions | 3.04 | 3.35 | 6.77 | 0.01 | 1.09 | 0.54 | 590.95 |
| SJVAPCD Level of Significance | 100 | 10 | 10 | 27 | 15 | 15 | None |
| Does the Project Exceed Standard? | No | No | No | No | No | No | No |

Source: CalEEMod

## 3.3 Long-Term Emissions

Long-Term emissions from the Project would be generated primarily by mobile source (vehicle) emissions from the Project site and area sources such as lawn maintenance equipment.

### 3.3.1 *Localized Operational Emissions – Ozone/Particulate Matter*

The Fresno County area is nonattainment for Federal and State air quality standards for ozone, attainment of Federal standards for PM10 and nonattainment for State standards, and nonattainment for Federal and State standards for PM2.5. Nitrogen oxides and reactive organic gases are regulated as ozone precursors. Significance criteria have been established for criteria pollutant emissions as documented in Section 3.1. Operational emissions have been estimated for the Project using the CalEEMod Model and detailed results are included in Appendix A of this report.

Results of the CalEEMod analysis are shown in Table 8. Results indicate that the annual operational emissions from the Project will be less than the SJVAPCD emission thresholds for criteria pollutants.

## Table 8
### Project Operational Emissions (tons/year)

| Summary Report | CO | $NO_x$ | ROG | $SO_x$ | $PM_{10}$ | $PM_{2.5}$ | CO2e |
|---|---|---|---|---|---|---|---|
| Project Opeational Emissions | 43.52 | 3.90 | 7.99 | 0.12 | 8.07 | 5.08 | 5674.55 |
| SJVAPCD Level of Significance | 100 | 10 | 10 | 27 | 15 | 15 | None |
| Does the Project Exceed Standard? | No | No | No | No | No | No | No |

Source: CalEEMod

### 3.3.2 *Localized Operational Emissions*

✓ **Carbon Monoxide**

The SJVAPCD is currently in unclassified/attainment for Federal standards and unclassified

for State standards for CO. An analysis of localized CO concentrations is typically warranted to ensure that standards are maintained. Also, an analysis is required to ensure that localized concentrations don't reach potentially unhealthful levels that could affect sensitive receptors (residents, school children, hospital patients, the elderly, etc.).

Typically, high CO concentrations are associated with roadways or intersections operating at an unacceptable Level of Service (LOS). CO "Hot Spot" modeling is required if a traffic study reveals that the project will reduce the LOS on one or more streets to E or F or if the project will worsen an existing LOS F.

To analyze the Cumulative Year 2046 Plus Project "worst case" CO concentrations at study roadway segments, the analysis methodology considered the highest annual maximum CO concentration reported in 2013, using 1.0 PPM as an estimate of the background concentration for the 8-hour standard and 2.2 PPM for the 1-hour standard (source: CARB annual publications). Other modeling assumptions include a wind speed of .5 m/s, flat topography, 1,000-meter mixing height, and a 5 degree wind deviation.

✓ **Toxic Air Contaminants (TAC)**

The SJVAPCD's Guidance Document, Guidance for Assessing and Mitigating Air Quality Impacts – 2015, identifies the need for projects to analyze the potential for adverse air quality impacts to sensitive receptors. Sensitive receptors refer to those segments of the population most susceptible to poor air quality (i.e., children, the elderly, and those with pre-existing serious health problems affected by air quality). Land uses that have the greatest potential to attract these types of sensitive receptors include schools, parks, playgrounds, daycare centers, nursing homes, hospitals, and residential communities. From a health risk perspective, the Project is a Type B Project in that it may potentially place sensitive receptors in the vicinity of existing sources.

The first step in evaluating the potential for impacts to sensitive receptors for TAC's from the Project is to perform a screening level analysis. For Type B Projects, one type of screening tool is found in the CARB Handbook: Air Quality and Land Use Handbook: A Community Perspective. This handbook includes a table (depicted in Table 4) with recommended buffer distances associated with various types of common sources. The screening level analysis for the Project shows that TAC's are not a concern based upon the recommendations provided in Table 4. An evaluation of nearby land uses considering CARB's Pollution Mapping Tool shows that the Project will not place sensitive receptors in the vicinity of existing toxic sources. The Project is located a 2.5 mile from the State Route (SR) 168 freeway. Table 4 indicates that new sensitive land uses shouldn't be sited within 500 feet of a freeway/urban roads with 100,000 vehicles/day, or rural roads with 50,000 vehicles/day. The Project is located more than 2.5 miles from the SR 168 freeway. As a result, a health risk assessment is not needed at this time.

✓ **Odors**

Typically, odors are regarded as an annoyance rather than a health hazard. However, manifestations of a person's reaction to foul odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache).

Quality and intensity are two properties present in any odor. The quality of an odor indicates the nature of the smell experience. For instance, if a person describes an odor as flowery or sweet, then the person is describing the quality of the odor. Intensity refers to the strength of the odor. For example, a person may use the word "strong" to describe the intensity of an odor. Odor intensity depends on the odorant concentration in the air.

When an odorous sample is progressively diluted, the odorant concentration decreases. As this occurs, the odor intensity weakens and eventually becomes so low that the detection or recognition of the odor is quite difficult. At some point during dilution, the concentration of the odorant reaches a detection threshold. An odorant concentration below the detection threshold means that the concentration in the air is not detectable by the average human.

While offensive odors rarely cause any physical harm, they can be very unpleasant, leading to considerable distress among the public and often generating citizen complaints to local governments and the SJVAPCD. Any project with the potential to frequently expose members of the public to objectionable odors should be deemed to have a significant impact.

The SJVAPCD requires that an analysis of potential odor impacts be conducted for the following two situations:

- Generators – projects that would potentially generate odorous emissions proposed to be located near existing sensitive receptors or other land uses where people may congregate, and
- Receivers – residential or other sensitive receptor projects or other projects built for the intent of attracting people locating near existing odor sources.

The Project will not generate odorous emissions given the nature or characteristics of the Project. The intensity of an odor source's operations and its proximity to sensitive receptors influences the potential significance of odor emissions. The SJVAPCD has identified some common types of facilities that have been known to produce odors in the SJV Air Basin. The types of facilities that are known to produce odors are shown in Table 5 above along with a reasonable distance from the source within which, the degree of odors could possibly be significant. None of the facilities shown in Table 5 are located within two (2) miles of the Project.

✓ **Naturally Occurring Asbestos (NOA)**

Asbestos is a term used for several types of naturally occurring fibrous minerals found in

many parts of California. The most common type of asbestos is chrysotile, but other types are also found in California. Construction of the Project may cause asbestos to become airborne due to the construction activities that will occur on site. The Project would be required to submit a Dust Control Plan under the SJVAPCD's Rule 8021. Compliance with Rule 8021 would limit fugitive dust emissions from construction, demolition, excavation, extraction, and other earthmoving activities associated with the Project.

The Dust Control Plan may include the following measures:

1. Water wetting of road surfaces
2. Rinse vehicles and equipment
3. Wet loads of excavated material, and
4. Cover loads of excavated material

✓ **Greenhouse Gas Emissions**

CARB, in consultation with MPOs, has provided each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region for the years 2020 and 2035. For the Fresno Council of Governments(FCOG) region, CARB set targets at six (6) percent per capita decrease in 2020 and a thirteen (13) percent per capita decrease in 2035 from a base year of 2005. FCOG's 2018 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), which was adopted in July 2022, projects that the Fresno County region would achieve the prescribed emissions targets.

In 2009, the SJVAPCD adopted the following guidance documents applicable to projects within the San Joaquin Valley:

- ✓ Guidance for Valley Land-use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA (SJVAPCD 2009), and
- ✓ District Policy: Addressing GHG Emission Impacts for Stationary Source Projects Under CEQA When Serving as the Lead Agency (SJVAPCD 2009).

This guidance and policy are the reference documents referenced in the SJVAPCD's Guidance for Assessing and Mitigating Air Quality Impacts adopted in March 2015 (SJVAPCD 2015). Consistent with the District Guidance and District Policy above, SJVAPCD (2015) acknowledges the current absence of numerical thresholds, and recommends a tiered approach to establish the significance of the GHG impacts on the environment:

i. If a project complies with an approved GHG emission reduction plan or GHG mitigation program which avoids or substantially reduces GHG emissions within the geographic area in which the project is located, then the project would be determined to have a less than significant individual and cumulative impact for GHG emissions;
ii. If a project does not comply with an approved GHG emission reduction plan or mitigation program, then it would be required to implement Best Performance

Standards (BPS); and

iii. If a project is not implementing BPS, then it should demonstrate that its GHG emissions would be reduced or mitigated by at least 29 percent compared to Business as Usual (BAU).

As shown in Table 9, the Project would generate 7366.31 Metric Tons of Carbon Dioxide Equivalent per year (MTCO2eq./year) using an operational year of 2005, which includes area, energy, mobile, waste, and water sources. "Business as usual" (BAU) is referenced in CARB's AB 32 Scoping Plan as emissions projected to occur in 2020 if the average baseline emissions during the 2002-2004 period grew to 2020 levels, without control or Best Performance Standards (BPS) offsets. As a result, an estimate of the Project's operational emissions in 2005 were compared to operational emissions in 2020 in order to determine if the Project meets the 29% emission reduction. The SJVAPCD has reviewed relevant scientific information related to GHG emissions and has determined that they are not able to determine a specific quantitative level of GHG emissions increase, above which a project would have a significant impact on the environment, and below which would have an insignificant impact. As a result, the SJVAPCD has determined that projects achieving at least a 29% GHG emission reduction compared to BAU would be determined to have a less than significant individual and cumulative impact for GHG. Results of the analysis show that the Project's GHG emissions in the year 2020 is 6253.23 MTCO2eq./year. This represents an achievement of 15% GHG emission reduction on the basis of BAU, which does not meet the 29% GHG emission reduction target.

In the event that a local air district's guidance for addressing GHG impacts does not use numerical GHG emissions thresholds, at the lead agency's discretion, a neighboring air district's GHG threshold may be used to determine impacts. In December 2008, the South Coast Air Quality Management District (SCAQMD) Governing Board adopted the staff proposal for an interim GHG significance threshold for projects where the SCAQMD is lead agency. The SCAQMD guidance identifies a threshold of 10,000 MTCO2eq./year for GHG for construction emissions amortized over a 30-year project lifetime, plus annual operation emissions. This threshold is often used by agencies, such as the California Public Utilities Commission, to evaluate GHG impacts in areas that do not have specific thresholds (CPUC 2015)[2]. Therefore, because this threshold has been established by the SCAQMD in an effort to control GHG emissions in the largest metropolitan area in the State of California, this threshold is considered a conservative approach for evaluating the significance of GHG emissions in a more rural area, such as Fresno County. Though the Project is under SJVAPCD jurisdiction, the SCAQMD GHG threshold provides some perspective on the GHG emissions generated by the Project. Table 10 shows the yearly GHG emissions generated by the Project as determined by the CalEEMod model, which is approximately 43% less than the threshold identified by the SCAQMD. Though the Project is under SJVAPCD jurisdiction, the SCAQMD

2 California Public Utilities Commission (CPUC). 2015. Section 4.7, "Greenhouse Gases." Final Environmental Impact Report for the Santa Barbara County Reliability Project. May 2015. Accessed January 18, 2018. http://www.cpuc.ca.gov/environment/info/ene/sbcrp/SBCRP_FEIR.html.

GHG threshold provides some perspective on the GHG emissions generated by the Project. Table 10 shows the yearly GHG emissions generated by the Project as determined by the CalEEMod model.

## Table 9
### 2005/2020 Operational greenhouse Gas Emissions

| Summary Report | $CO_2e$ |
|---|---|
| Operational Emissions Per Year (2005) | 7368.31 MT/yr |
| Operational Emissions Per Year (2020) | 6253.23 MT/yr |
| SJVAPCD Level of Significance | 29% Reduction Compared to BAU |
| Does the Project Meet the Standard | No |

Source: CalEEMod Emissions Model

## Table 10
### Project Operational Greenhouse Gas Emissions

| Summary Report | $CO_2e$ |
|---|---|
| Project Operational Emissions Per Year( Plus amortized construction emissions) | 5694.25 MT/yr |

Source: CalEEMod

### 3.3.3 *Indirect Source Review*

The proposed Project is subject to the SJVAPCD's ISR program since there are more than 250 residential units, which is also known as Rule 9510. Rule 9510 and the Administrative ISR Fee Rule (Rule 3180) are the result of state requirements outlined in the California Health and Safety Code, Section 40604 and the State Implementation Plan (SIP). The purpose of the SJVAPCD's ISR program is to reduce emissions of NOx and PM10 from new projects. In general, new development contributes to the air-pollution problem in the Valley by increasing the number of vehicles and vehicle miles traveled.

Utilizing the ISR Fee Estimator calculator available on the SJVAPCD website, it was determined that the Project's total cost for emission reductions is $484,057.60 without implementation of emission reduction measures. After the application of ISR rule $No_x$ will be reduced by 10.42 MT/yr and $PM_{10}$ will be reduced by 40.84 MT/ yr during construction phase. The ISR Fee Estimator

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worksheets are included in Appendix B. The fee noted above may be reduced dependent upon the formal ISR review process.

# 4.0 Impact Determinations and Recommended Mitigation

In accordance with CEQA, when a proposed project is consistent with a General Plan for which an EIR has been certified, the effects of that project are evaluated to determine if they will result in project-specific significant adverse impacts on the environment. The criteria used to determine the significance of an air quality or greenhouse gas impact are based on the following thresholds of significance, which come from Appendix G of the CEQA Guidelines and the General Plan EIR. Accordingly, air quality or greenhouse gas impacts resulting from the Project are considered significant if the Project would:

Air Quality

a) Conflict with or obstruct implementation of the applicable air quality plan?
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?
c) Expose sensitive receptors to substantial pollutant concentrations?
d) Result in other emissions such as those leading to odors adversely affecting a substantial number of people?

Greenhouse Gas Emissions

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

## 4.1 Air Quality

### 4.1.1 *Conflict with or obstruct implementation of the applicable air quality plan*

The primary way of determining consistency with the air quality plan's (AQP's) assumptions is determining consistency with the applicable General Plan to ensure that the Project's population density and land use are consistent with the growth assumptions used in the AQPs for the air basin.

As required by California law, city and county General Plans contain a Land Use Element that details the types and quantities of land uses that the city or county estimates will be needed for future growth, and that designate locations for land uses to regulate growth. FCOG uses the growth projections and land use information in adopted general plans to estimate future average daily trips and then VMT, which are then provided to SJVAPCD to estimate future emissions in

the AQPs. Existing and future pollutant emissions computed in the AQP are based on land uses from area general plans. AQPs detail the control measures and emission reductions required for reaching attainment of the air standards.

The applicable General Plan for the project is the City of Clovis 2035 General Plan Update, which was adopted in 2014. The Project is consistent with the currently adopted General Plan for the City of Clovis and is therefore consistent with the population growth and VMT applied in the plan. Therefore, the Project is consistent with the growth assumptions used in the applicable AQPs. As a result, the Project will not conflict with or obstruct implementation of any air quality plans. Therefore, no mitigation is needed.

### 4.1.2 *Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard*

The Fresno County area is nonattainment for Federal and State air quality standards for ozone, in attainment of Federal standards and nonattainment for State standards for PM10, and nonattainment for Federal and State standards for PM2.5. The SJVAPCD has prepared the 2016 and 2013 Ozone Plans, 2007 PM10 Maintenance Plan, and 2012 PM2.5 Plan to achieve Federal and State standards for improved air quality in the SJVAB regarding ozone and PM. Inconsistency with any of the plans would be considered a cumulatively adverse air quality impact. As discussed in Section 4.1.1, the Project is consistent with the currently adopted General Plan for the City of Clovis and is therefore consistent with the population growth and VMT applied in the plan. Therefore, the Project is consistent with the growth assumptions used in the 2016 and 2013 Ozone Plan, 2007 PM10 Maintenance Plan, and 2012 PM2.5 Plan.

Project specific emissions that exceed the thresholds of significance for criteria pollutants would be expected to result in a cumulatively considerable net increase of any criteria pollutant for which the County is in non-attainment under applicable federal or state ambient air quality standards. It should be noted that a project is not characterized as cumulatively insignificant when project emissions fall below thresholds of significance. As discussed in Section 3.1, the SJVAPCD has established thresholds of significance for determining environmental significance which are provided in Table 6.

As discussed above in Section 3.2 and 3.3, results of the analysis show that emissions generated from construction and operation of the Project will be less than the applicable SJVAPCD emission thresholds for criteria pollutants. Therefore, no mitigation is needed.

### 4.1.3 *Expose sensitive receptors to substantial pollutant concentrations*

Sensitive receptors refer to those segments of the population most susceptible to poor air quality (i.e., children, the elderly, and those with pre-existing serious health problems affected by air quality). Land uses that have the greatest potential to attract these types of sensitive receptors

include schools, parks, playgrounds, daycare centers, nursing homes, hospitals, and residential communities. From a health risk perspective, the Project is a Type B project in that it may potentially place sensitive receptors in the vicinity of existing sources.

The first step in evaluating the potential for impacts to sensitive receptors for TAC's from the Project is to perform a screening level analysis. For Type B Projects, one type of screening tool is found in the CARB Handbook: Air Quality and Land Use Handbook: A Community Perspective. This handbook includes a table (depicted in Table 4) with recommended buffer distances associated with various types of common sources. The screening level analysis for the Project shows that TAC's are not a concern based upon the recommendations provided in Table 4. An evaluation of nearby land uses considering CARB's Pollution Mapping Tool shows that the Project will not place sensitive receptors in the vicinity of existing toxic sources. The Project is located a 2.5 mile from the State Route (SR) 168 freeway. Table 4 indicates that new sensitive land uses shouldn't be sited within 500 feet of a freeway/urban roads with 100,000 vehicles/day, or rural roads with 50,000 vehicles/day. The Project is located more than 2.5 miles from the SR 168 freeway. Therefore, no mitigation is needed.

## Short-Term Impacts

The annual emissions from the construction phase of the Project will be less than the applicable SJVAPCD emission thresholds for criteria pollutants as shown in Table 8. The construction emissions are therefore considered less than significant with the implementation of the SJVAPCD applicable Regulation VIII control measures, which are provided below.

1. *All disturbed areas, including storage piles, which are not being actively utilized for construction purposes, shall be effectively stabilized of dust emissions using water, chemical stabilizer/suppressant, covered with a tarp or other suitable cover or vegetative ground cover.*
2. *All on-site unpaved roads and off-site unpaved access roads shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant.*
3. *All land clearing, grubbing, scraping, excavation, land leveling, grading, cut & fill, and demolition activities shall be effectively controlled of fugitive dust emissions utilizing application of water or by presoaking.*
4. *When materials are transported off-site, all material shall be covered, or effectively wetted to limit visible dust emissions, and at least six inches of freeboard space from the top of the container shall be maintained.*
5. *All operations shall limit or expeditiously remove the accumulation of mud or dirt from adjacent public streets at the end of each workday. The use of dry rotary brushes is expressly prohibited except where preceded or accompanied by sufficient wetting to limit the visible dust emissions. Use of blower devices is expressly forbidden.*
6. *Following the addition of materials to, or the removal of materials from, the surface of outdoor storage piles, said piles shall be effectively stabilized of fugitive dust emissions*

*utilizing sufficient water or chemical stabilizer/suppressant.*

7. *Within urban areas, track out shall be immediately removed when it extends 50 or more feet from the site and at the end of each workday.*

**Naturally Occurring Asbestos (NOA)**

The proposed Project's construction phase may cause asbestos to become airborne due to the construction activities that will occur on site. In order to control naturally-occurring asbestos dust, the Project will be required to submit a Dust Control Plan under the SJVAPCD's Rule 8021. The Dust Control Plan may include the following measures:

1. Water wetting of road surfaces
2. Rinse vehicles and equipment
3. Wet loads of excavated material, and
4. Cover loads of excavated material

Long-Term Impacts

Long-Term emissions from the Project are generated primarily by mobile source (vehicle) emissions from the project site and area sources such as lawn maintenance equipment. Emissions from long-term operations generally represent a project's most substantial air quality impact. Table 8 summarizes the Project's operational impacts by pollutant. Results indicate that operational emissions from the Project will not exceed the SJVAPCD emissions threshold for any emissions, hence no mitigations are required.

### 4.1.4 *Result in other emissions such as those leading to odors adversely affecting a substantial number of people*

The SJVAPCD requires that an analysis of potential odor impacts be conducted for the following two situations:

- ✓ Generators – projects that would potentially generate odorous emissions proposed to be located near existing sensitive receptors or other land uses where people may congregate, and

- ✓ Receivers – residential or other sensitive receptor projects or other projects built for the intent of attracting people located near existing odor sources.

The proposed Project will not generate odorous emissions given the nature or characteristics of residential developments. The intensity of an odor source's operations and its proximity to

sensitive receptors influences the potential significance of odor emissions. The SJVAPCD has identified some common types of facilities that have been known to produce odors in the SJV Air Basin. The types of facilities that are known to produce odors are shown in Table 5 above along with a reasonable distance from the source within which, the degree of odors could possibly be significant. None of the facilities shown in Table 5 are located within two (2) miles of the Project. Therefore, no mitigation is needed.

## 4.2 Greenhouse Gas Emissions

### 4.2.1 *Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment*

In 2009, the SJVAPCD adopted the following guidance documents applicable to projects within the San Joaquin Valley:

- ✓ Guidance for Valley Land-use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA (SJVAPCD 2009), and
- ✓ District Policy: Addressing GHG Emission Impacts for Stationary Source Projects Under CEQA When Serving as the Lead Agency (SJVAPCD 2009).

As shown in Table 9, the Project would generate 7368.53 Metric Tons of Carbon Dioxide Equivalent per year (MTCO2eq./year) using an operational year of 2005, which includes area, energy, mobile, waste, and water sources. "Business as usual" (BAU) is referenced in CARB's AB 32 Scoping Plan as emissions projected to occur in 2020 if the average baseline emissions during the 2002-2004 period grew to 2020 levels, without control or Best Performance Standards (BPS) offsets. As a result, an estimate of the Project's operational emissions in 2005 were compared to operational emissions in 2020 in order to determine if the Project meets the 29% emission reduction. The SJVAPCD has reviewed relevant scientific information related to GHG emissions and has determined that they are not able to determine a specific quantitative level of GHG emissions increase, above which a project would have a significant impact on the environment, and below which would have an insignificant impact. As a result, the SJVAPCD has determined that projects achieving at least a 29% GHG emission reduction compared to BAU would be determined to have a less than significant individual and cumulative impact for GHG. Results of the analysis show that the Project's GHG emissions in the year 2020 is 6253.23 MTCO2eq./year. This represents an achievement of 15% GHG emission reduction on the basis of BAU, which does not meet the 29% GHG emission reduction target.

In the event that a local air district's guidance for addressing GHG impacts does not use numerical GHG emissions thresholds, at the lead agency's discretion, a neighboring air district's GHG threshold may be used to determine impacts. In December 2008, the South Coast Air Quality Management District (SCAQMD) Governing Board adopted the staff proposal for an interim GHG significance threshold for projects where the SCAQMD is lead

agency. The SCAQMD guidance identifies a threshold of 10,000 MTCO2eq./year for GHG for construction emissions amortized over a 30-year project lifetime, plus annual operation emissions. This threshold is often used by agencies, such as the California Public Utilities Commission, to evaluate GHG impacts in areas that do not have specific thresholds (CPUC 2015)[3]. Therefore, because this threshold has been established by the SCAQMD in an effort to control GHG emissions in the largest metropolitan area in the State of California, this threshold is considered a conservative approach for evaluating the significance of GHG emissions in a more rural area, such as Fresno County. Though the Project is under SJVAPCD jurisdiction, the SCAQMD GHG threshold provides some perspective on the GHG emissions generated by the Project. Table 10 shows the yearly GHG emissions generated by the Project as determined by the CalEEMod model, which is approximately 43% less than the threshold identified by the SCAQMD.

CARB's California GHG Emissions Inventory provides estimates of anthropogenic GHG emissions within California, as well as emissions associated with imported electricity; natural sources are not included in the inventory. California's GHG emissions for 2020 totaled approximately 358.76 million MTCO2eq. The proposed Project's GHG emissions represents less than 0.001% of the total GHG emissions for the state of California when compared to year 2018 emissions data.

Based on the assessment above, the Project will not generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment. Therefore, any impacts would be less than significant.

### 4.2.2 *Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases*

California passed the California Global Warming Solutions Act of 2006. AB 32 requires that statewide GHG emissions be reduced to 1990 levels by 2020. Under AB 32, CARB must adopt regulations by January 1, 2011 to achieve reductions in GHGs to meet the 1990 emission cap by 2020. On December 11, 2008, CARB adopted its initial Scoping Plan, which functions as a roadmap of CARB's plans to achieve GHG reductions in California required by AB 32 through subsequently enacted regulations. CARB's 2017 Climate Change Scoping Plan builds on the efforts and plans encompassed in the initial Scoping Plan.

SB 375 requires MPOs to adopt a SCS or APS that will prescribe land use allocation in that MPO's regional transportation plan. CARB, in consultation with MPOs, has provided each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region

3 California Public Utilities Commission (CPUC). 2015. Section 4.7, "Greenhouse Gases." Final Environmental Impact Report for the Santa Barbara County Reliability Project. May 2015. Accessed January 18, 2018. http://www.cpuc.ca.gov/environment/info/ene/sbcrp/SBCRP_FEIR.html.

for the years 2020 and 2035. For the FCOF region, CARB set targets at six (6) percent per capita decrease in 2020 and a thirteen (13) percent per capita decrease in 2035 from a base year of 2005. FCOG's 2022 RTP/SCS, which was adopted in July 2022, projects that the Fresno County region would achieve the prescribed emissions targets.

Executive Order B-30-15 establishes a California greenhouse gas reduction target of 40 percent below 1990 levels by 2030 to ensure California meets its target of reducing greenhouse gas emissions to 80 percent below 1990 levels by 2050. Executive Order B-30-15 requires MPO's to implement measures that will achieve reductions of greenhouse gas emissions to meet the 2030 and 2050 greenhouse gas emissions reductions targets.

As required by California law, city and county General Plans contain a Land Use Element that details the types and quantities of land uses that the city or county estimates will be needed for future growth, and that designate locations for land uses to regulate growth. FCOG uses the growth projections and land use information in adopted general plans to estimate future average daily trips and then VMT, which are then provided to SJVAPCD to estimate future emissions in the AQPs. The applicable General Plan for the project is City of Clovis 2035 General Plan Update, which was adopted in 2014.

The Project is consistent with the currently adopted General Plan for the City of Clovis and the adopted FCOG 2022 RTP/SCS and is therefore consistent with the population growth and VMT applied in those plan documents. Therefore, the Project is consistent with the growth assumptions used in the applicable AQP. It should also be noted that yearly GHG emissions generated by the Project (Table 9) are approximately 43% less than the threshold identified by the SCAQMD (see the discussion for Impact 4.2.1 above).

CARB's 2017 Climate Change Scoping Plan builds on the efforts and plans encompassed in the initial Scoping Plan. The current plan has identified new policies and actions to accomplish the State's 2030 GHG limit. Below is a list of applicable strategies in the Scoping Plan and the Project's consistency with those strategies.

- ✓ California Light-Duty Vehicle GHG Standards – Implement adopted standards and planned second phase of the program. Align zero-emission vehicle, alternative and renewable fuel and vehicle technology programs for long-term climate change goals.
  - The Project is consistent with this reduction measure. This measure cannot be implemented by a particular project or lead agency since it is a statewide measure. When this measure is implemented, standards would be applicable to light-duty vehicles that would access the Project. The Project would not conflict or obstruct this reduction measure.
- ✓ Energy Efficiency – Pursuit of comparable investment in energy efficiency from all retail providers of electricity in California. Maximize energy efficiency building and appliance standards.

- The Project is consistent with this reduction measure. Though this measure applies to the State to increase its energy standards, the Project would comply with this measure through existing regulation. The Project would not conflict or obstruct this reduction measure.

✓ Low Carbon Fuel – Development and adoption of the low carbon fuel standard.

- The Project is consistent with this reduction measure. This measure cannot be implemented by a particular project or lead agency since it is a statewide measure. When this measure is implemented, standards would be applicable to the fuel used by vehicles that would access the Project. The Project would not conflict or obstruct this reduction measure.

Based on the assessment above, the Project will not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases. Therefore, any impacts would be less than significant.

# Appendix-A
## CalEEMod Worksheets

AGENDA ITEM NO. 16.

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

# Tract 000

**Fresno County, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Single Family Housing | 153.00 | Dwelling Unit | 18.63 | 275,400.00 | 438 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 45 |
| **Climate Zone** | 3 | | | **Operational Year** | 2025 |
| **Utility Company** | Pacific Gas and Electric Company | | | | |
| **CO2 Intensity (lb/MWhr)** | 203.98 | **CH4 Intensity (lb/MWhr)** | 0.033 | **N2O Intensity (lb/MWhr)** | 0.004 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - project description

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblLandUse | LotAcreage | 49.68 | 18.63 |
| tblWoodstoves | NumberCatalytic | 18.63 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 18.63 | 0.00 |

## 2.0 Emissions Summary

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 2.1 Overall Construction

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2024 | 0.2460 | 2.2201 | 2.4298 | 4.8400e-003 | 0.2939 | 0.0962 | 0.3901 | 0.1209 | 0.0899 | 0.2107 | 0.0000 | 424.6752 | 424.6752 | 0.0960 | 5.4300e-003 | 428.6945 |
| 2025 | 2.6768 | 0.7936 | 1.0828 | 2.0400e-003 | 0.0307 | 0.0328 | 0.0635 | 8.3000e-003 | 0.0308 | 0.0391 | 0.0000 | 178.9658 | 178.9658 | 0.0358 | 2.8400e-003 | 180.7065 |
| **Maximum** | **2.6768** | **2.2201** | **2.4298** | **4.8400e-003** | **0.2939** | **0.0962** | **0.3901** | **0.1209** | **0.0899** | **0.2107** | **0.0000** | **424.6752** | **424.6752** | **0.0960** | **5.4300e-003** | **428.6945** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2024 | 0.2460 | 2.2201 | 2.4298 | 4.8400e-003 | 0.2939 | 0.0962 | 0.3901 | 0.1209 | 0.0899 | 0.2107 | 0.0000 | 424.6748 | 424.6748 | 0.0960 | 5.4300e-003 | 428.6941 |
| 2025 | 2.6768 | 0.7936 | 1.0828 | 2.0400e-003 | 0.0307 | 0.0328 | 0.0635 | 8.3000e-003 | 0.0308 | 0.0391 | 0.0000 | 178.9656 | 178.9656 | 0.0358 | 2.8400e-003 | 180.7063 |
| **Maximum** | **2.6768** | **2.2201** | **2.4298** | **4.8400e-003** | **0.2939** | **0.0962** | **0.3901** | **0.1209** | **0.0899** | **0.2107** | **0.0000** | **424.6748** | **424.6748** | **0.0960** | **5.4300e-003** | **428.6941** |

Tract 000 - Fresno County, Annual

## EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---|---|---|---|---|
| **1** | **1-10-2024** | **4-9-2024** | 0.9567 | 0.9567 |
| **2** | **4-10-2024** | **7-9-2024** | 0.5160 | 0.5160 |
| **3** | **7-10-2024** | **10-9-2024** | 0.5218 | 0.5218 |
| **4** | **10-10-2024** | **1-9-2025** | 0.5195 | 0.5195 |
| **5** | **1-10-2025** | **4-9-2025** | 0.4761 | 0.4761 |
| **6** | **4-10-2025** | **7-9-2025** | 1.7410 | 1.7410 |
| **7** | **7-10-2025** | **9-30-2025** | 1.2065 | 1.2065 |
| | | **Highest** | 1.7410 | 1.7410 |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 2.2 Overall Operational

**Unmitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.3748 | 0.0703 | 1.1593 | 4.3000e-004 | | 0.0109 | 0.0109 | | 0.0109 | 0.0109 | 0.0000 | 68.1364 | 68.1364 | 3.0500e-003 | 1.2200e-003 | 68.5747 |
| Energy | 0.0198 | 0.1695 | 0.0721 | 1.0800e-003 | | 0.0137 | 0.0137 | | 0.0137 | 0.0137 | 0.0000 | 309.1390 | 309.1390 | 0.0220 | 5.8100e-003 | 311.4214 |
| Mobile | 0.6651 | 1.1272 | 6.3070 | 0.0153 | 1.5673 | 0.0126 | 1.5799 | 0.4193 | 0.0118 | 0.4311 | 0.0000 | 1,452.2520 | 1,452.2520 | 0.0731 | 0.0778 | 1,477.2689 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 32.0076 | 0.0000 | 32.0076 | 1.8916 | 0.0000 | 79.2975 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.1626 | 7.0259 | 10.1884 | 0.3260 | 7.8100e-003 | 20.6642 |
| **Total** | **2.0598** | **1.3669** | **7.5384** | **0.0169** | **1.5673** | **0.0372** | **1.6045** | **0.4193** | **0.0364** | **0.4557** | **35.1702** | **1,836.5532** | **1,871.7234** | **2.3158** | **0.0927** | **1,957.2267** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.3748 | 0.0703 | 1.1593 | 4.3000e-004 | | 0.0109 | 0.0109 | | 0.0109 | 0.0109 | 0.0000 | 68.1364 | 68.1364 | 3.0500e-003 | 1.2200e-003 | 68.5747 |
| Energy | 0.0198 | 0.1695 | 0.0721 | 1.0800e-003 | | 0.0137 | 0.0137 | | 0.0137 | 0.0137 | 0.0000 | 309.1390 | 309.1390 | 0.0220 | 5.8100e-003 | 311.4214 |
| Mobile | 0.6651 | 1.1272 | 6.3070 | 0.0153 | 1.5673 | 0.0126 | 1.5799 | 0.4193 | 0.0118 | 0.4311 | 0.0000 | 1,452.2520 | 1,452.2520 | 0.0731 | 0.0778 | 1,477.2689 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 32.0076 | 0.0000 | 32.0076 | 1.8916 | 0.0000 | 79.2975 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.1626 | 7.0259 | 10.1884 | 0.3260 | 7.8100e-003 | 20.6642 |
| **Total** | **2.0598** | **1.3669** | **7.5384** | **0.0169** | **1.5673** | **0.0372** | **1.6045** | **0.4193** | **0.0364** | **0.4557** | **35.1702** | **1,836.5532** | **1,871.7234** | **2.3158** | **0.0927** | **1,957.2267** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Demolition | Demolition | 1/10/2024 | 2/6/2024 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 2/7/2024 | 2/20/2024 | 5 | 10 | |
| 3 | Grading | Grading | 2/21/2024 | 4/2/2024 | 5 | 30 | |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4 | Building Construction | Building Construction | 4/3/2024 | 5/27/2025 | 5 | 300 | |
| 5 | Paving | Paving | 5/28/2025 | 6/24/2025 | 5 | 20 | |
| 6 | Architectural Coating | Architectural Coating | 6/25/2025 | 7/22/2025 | 5 | 20 | |

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 557,685; Residential Outdoor: 185,895; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | | | | | |
|---|---|---|---|---|---|
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Demolition | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 55.00 | 16.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 11.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 3.2 Demolition - 2024

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0224 | 0.2088 | 0.1971 | 3.9000e-004 | | 9.6000e-003 | 9.6000e-003 | | 8.9200e-003 | 8.9200e-003 | 0.0000 | 33.9961 | 33.9961 | 9.5100e-003 | 0.0000 | 34.2338 |
| **Total** | **0.0224** | **0.2088** | **0.1971** | **3.9000e-004** | | **9.6000e-003** | **9.6000e-003** | | **8.9200e-003** | **8.9200e-003** | **0.0000** | **33.9961** | **33.9961** | **9.5100e-003** | **0.0000** | **34.2338** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.2 Demolition - 2024

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.3000e-004 | 2.7000e-004 | 3.2800e-003 | 1.0000e-005 | 1.2000e-003 | 1.0000e-005 | 1.2000e-003 | 3.2000e-004 | 1.0000e-005 | 3.2000e-004 | 0.0000 | 0.9308 | 0.9308 | 3.0000e-005 | 3.0000e-005 | 0.9390 |
| **Total** | **4.3000e-004** | **2.7000e-004** | **3.2800e-003** | **1.0000e-005** | **1.2000e-003** | **1.0000e-005** | **1.2000e-003** | **3.2000e-004** | **1.0000e-005** | **3.2000e-004** | **0.0000** | **0.9308** | **0.9308** | **3.0000e-005** | **3.0000e-005** | **0.9390** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0224 | 0.2088 | 0.1971 | 3.9000e-004 | | 9.6000e-003 | 9.6000e-003 | | 8.9200e-003 | 8.9200e-003 | 0.0000 | 33.9960 | 33.9960 | 9.5100e-003 | 0.0000 | 34.2338 |
| **Total** | **0.0224** | **0.2088** | **0.1971** | **3.9000e-004** | | **9.6000e-003** | **9.6000e-003** | | **8.9200e-003** | **8.9200e-003** | **0.0000** | **33.9960** | **33.9960** | **9.5100e-003** | **0.0000** | **34.2338** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.2 Demolition - 2024

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.3000e-004 | 2.7000e-004 | 3.2800e-003 | 1.0000e-005 | 1.2000e-003 | 1.0000e-005 | 1.2000e-003 | 3.2000e-004 | 1.0000e-005 | 3.2000e-004 | 0.0000 | 0.9308 | 0.9308 | 3.0000e-005 | 3.0000e-005 | 0.9390 |
| **Total** | **4.3000e-004** | **2.7000e-004** | **3.2800e-003** | **1.0000e-005** | **1.2000e-003** | **1.0000e-005** | **1.2000e-003** | **3.2000e-004** | **1.0000e-005** | **3.2000e-004** | **0.0000** | **0.9308** | **0.9308** | **3.0000e-005** | **3.0000e-005** | **0.9390** |

## 3.3 Site Preparation - 2024

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0983 | 0.0000 | 0.0983 | 0.0505 | 0.0000 | 0.0505 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0133 | 0.1359 | 0.0917 | 1.9000e-004 | | 6.1500e-003 | 6.1500e-003 | | 5.6600e-003 | 5.6600e-003 | 0.0000 | 16.7285 | 16.7285 | 5.4100e-003 | 0.0000 | 16.8638 |
| **Total** | **0.0133** | **0.1359** | **0.0917** | **1.9000e-004** | **0.0983** | **6.1500e-003** | **0.1044** | **0.0505** | **5.6600e-003** | **0.0562** | **0.0000** | **16.7285** | **16.7285** | **5.4100e-003** | **0.0000** | **16.8638** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.3 Site Preparation - 2024

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.6000e-004 | 1.6000e-004 | 1.9700e-003 | 1.0000e-005 | 7.2000e-004 | 0.0000 | 7.2000e-004 | 1.9000e-004 | 0.0000 | 1.9000e-004 | 0.0000 | 0.5585 | 0.5585 | 2.0000e-005 | 2.0000e-005 | 0.5634 |
| **Total** | **2.6000e-004** | **1.6000e-004** | **1.9700e-003** | **1.0000e-005** | **7.2000e-004** | **0.0000** | **7.2000e-004** | **1.9000e-004** | **0.0000** | **1.9000e-004** | **0.0000** | **0.5585** | **0.5585** | **2.0000e-005** | **2.0000e-005** | **0.5634** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0983 | 0.0000 | 0.0983 | 0.0505 | 0.0000 | 0.0505 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0133 | 0.1359 | 0.0917 | 1.9000e-004 | | 6.1500e-003 | 6.1500e-003 | | 5.6500e-003 | 5.6500e-003 | 0.0000 | 16.7285 | 16.7285 | 5.4100e-003 | 0.0000 | 16.8638 |
| **Total** | **0.0133** | **0.1359** | **0.0917** | **1.9000e-004** | **0.0983** | **6.1500e-003** | **0.1044** | **0.0505** | **5.6500e-003** | **0.0562** | **0.0000** | **16.7285** | **16.7285** | **5.4100e-003** | **0.0000** | **16.8638** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.3 Site Preparation - 2024

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.6000e-004 | 1.6000e-004 | 1.9700e-003 | 1.0000e-005 | 7.2000e-004 | 0.0000 | 7.2000e-004 | 1.9000e-004 | 0.0000 | 1.9000e-004 | 0.0000 | 0.5585 | 0.5585 | 2.0000e-005 | 2.0000e-005 | 0.5634 |
| **Total** | **2.6000e-004** | **1.6000e-004** | **1.9700e-003** | **1.0000e-005** | **7.2000e-004** | **0.0000** | **7.2000e-004** | **1.9000e-004** | **0.0000** | **1.9000e-004** | **0.0000** | **0.5585** | **0.5585** | **2.0000e-005** | **2.0000e-005** | **0.5634** |

## 3.4 Grading - 2024

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1381 | 0.0000 | 0.1381 | 0.0548 | 0.0000 | 0.0548 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0483 | 0.4857 | 0.4158 | 9.3000e-004 | | 0.0200 | 0.0200 | | 0.0184 | 0.0184 | 0.0000 | 81.7793 | 81.7793 | 0.0265 | 0.0000 | 82.4405 |
| **Total** | **0.0483** | **0.4857** | **0.4158** | **9.3000e-004** | **0.1381** | **0.0200** | **0.1581** | **0.0548** | **0.0184** | **0.0732** | **0.0000** | **81.7793** | **81.7793** | **0.0265** | **0.0000** | **82.4405** |

AGENDA ITEM NO. 16.

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.4 Grading - 2024

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 8.6000e-004 | 5.3000e-004 | 6.5500e-003 | 2.0000e-005 | 2.4000e-003 | 1.0000e-005 | 2.4100e-003 | 6.4000e-004 | 1.0000e-005 | 6.5000e-004 | 0.0000 | 1.8616 | 1.8616 | 5.0000e-005 | 5.0000e-005 | 1.8780 |
| **Total** | **8.6000e-004** | **5.3000e-004** | **6.5500e-003** | **2.0000e-005** | **2.4000e-003** | **1.0000e-005** | **2.4100e-003** | **6.4000e-004** | **1.0000e-005** | **6.5000e-004** | **0.0000** | **1.8616** | **1.8616** | **5.0000e-005** | **5.0000e-005** | **1.8780** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1381 | 0.0000 | 0.1381 | 0.0548 | 0.0000 | 0.0548 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0483 | 0.4857 | 0.4158 | 9.3000e-004 | | 0.0200 | 0.0200 | | 0.0184 | 0.0184 | 0.0000 | 81.7792 | 81.7792 | 0.0265 | 0.0000 | 82.4404 |
| **Total** | **0.0483** | **0.4857** | **0.4158** | **9.3000e-004** | **0.1381** | **0.0200** | **0.1581** | **0.0548** | **0.0184** | **0.0732** | **0.0000** | **81.7792** | **81.7792** | **0.0265** | **0.0000** | **82.4404** |

AGENDA ITEM NO. 16.

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.4 Grading - 2024

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 8.6000e-004 | 5.3000e-004 | 6.5500e-003 | 2.0000e-005 | 2.4000e-003 | 1.0000e-005 | 2.4100e-003 | 6.4000e-004 | 1.0000e-005 | 6.5000e-004 | 0.0000 | 1.8616 | 1.8616 | 5.0000e-005 | 5.0000e-005 | 1.8780 |
| **Total** | **8.6000e-004** | **5.3000e-004** | **6.5500e-003** | **2.0000e-005** | **2.4000e-003** | **1.0000e-005** | **2.4100e-003** | **6.4000e-004** | **1.0000e-005** | **6.5000e-004** | **0.0000** | **1.8616** | **1.8616** | **5.0000e-005** | **5.0000e-005** | **1.8780** |

## 3.5 Building Construction - 2024

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1435 | 1.3108 | 1.5763 | 2.6300e-003 | | 0.0598 | 0.0598 | | 0.0563 | 0.0563 | 0.0000 | 226.0529 | 226.0529 | 0.0535 | 0.0000 | 227.3893 |
| **Total** | **0.1435** | **1.3108** | **1.5763** | **2.6300e-003** | | **0.0598** | **0.0598** | | **0.0563** | **0.0563** | **0.0000** | **226.0529** | **226.0529** | **0.0535** | **0.0000** | **227.3893** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2024

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.6300e-003 | 0.0685 | 0.0201 | 3.1000e-004 | 0.0103 | 4.4000e-004 | 0.0108 | 2.9900e-003 | 4.2000e-004 | 3.4100e-003 | 0.0000 | 29.4908 | 29.4908 | 1.5000e-004 | 4.4400e-003 | 30.8175 |
| Worker | 0.0154 | 9.4900e-003 | 0.1171 | 3.6000e-004 | 0.0429 | 2.0000e-004 | 0.0431 | 0.0114 | 1.8000e-004 | 0.0116 | 0.0000 | 33.2767 | 33.2767 | 9.2000e-004 | 9.0000e-004 | 33.5692 |
| **Total** | **0.0170** | **0.0780** | **0.1372** | **6.7000e-004** | **0.0532** | **6.4000e-004** | **0.0539** | **0.0144** | **6.0000e-004** | **0.0150** | **0.0000** | **62.7675** | **62.7675** | **1.0700e-003** | **5.3400e-003** | **64.3867** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1435 | 1.3108 | 1.5763 | 2.6300e-003 | | 0.0598 | 0.0598 | | 0.0563 | 0.0563 | 0.0000 | 226.0526 | 226.0526 | 0.0535 | 0.0000 | 227.3890 |
| **Total** | **0.1435** | **1.3108** | **1.5763** | **2.6300e-003** | | **0.0598** | **0.0598** | | **0.0563** | **0.0563** | **0.0000** | **226.0526** | **226.0526** | **0.0535** | **0.0000** | **227.3890** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2024

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.6300e-003 | 0.0685 | 0.0201 | 3.1000e-004 | 0.0103 | 4.4000e-004 | 0.0108 | 2.9900e-003 | 4.2000e-004 | 3.4100e-003 | 0.0000 | 29.4908 | 29.4908 | 1.5000e-004 | 4.4400e-003 | 30.8175 |
| Worker | 0.0154 | 9.4900e-003 | 0.1171 | 3.6000e-004 | 0.0429 | 2.0000e-004 | 0.0431 | 0.0114 | 1.8000e-004 | 0.0116 | 0.0000 | 33.2767 | 33.2767 | 9.2000e-004 | 9.0000e-004 | 33.5692 |
| **Total** | **0.0170** | **0.0780** | **0.1372** | **6.7000e-004** | **0.0532** | **6.4000e-004** | **0.0539** | **0.0144** | **6.0000e-004** | **0.0150** | **0.0000** | **62.7675** | **62.7675** | **1.0700e-003** | **5.3400e-003** | **64.3867** |

## 3.5 Building Construction - 2025

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0718 | 0.6547 | 0.8444 | 1.4200e-003 | | 0.0277 | 0.0277 | | 0.0261 | 0.0261 | 0.0000 | 121.7577 | 121.7577 | 0.0286 | 0.0000 | 122.4733 |
| **Total** | **0.0718** | **0.6547** | **0.8444** | **1.4200e-003** | | **0.0277** | **0.0277** | | **0.0261** | **0.0261** | **0.0000** | **121.7577** | **121.7577** | **0.0286** | **0.0000** | **122.4733** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2025

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 8.6000e-004 | 0.0368 | 0.0106 | 1.6000e-004 | 5.5700e-003 | 2.4000e-004 | 5.8100e-003 | 1.6100e-003 | 2.3000e-004 | 1.8400e-003 | 0.0000 | 15.5744 | 15.5744 | 8.0000e-005 | 2.3400e-003 | 16.2749 |
| Worker | 7.6900e-003 | 4.5500e-003 | 0.0587 | 1.9000e-004 | 0.0231 | 1.0000e-004 | 0.0232 | 6.1400e-003 | 9.0000e-005 | 6.2300e-003 | 0.0000 | 17.4866 | 17.4866 | 4.5000e-004 | 4.5000e-004 | 17.6328 |
| **Total** | **8.5500e-003** | **0.0413** | **0.0692** | **3.5000e-004** | **0.0287** | **3.4000e-004** | **0.0290** | **7.7500e-003** | **3.2000e-004** | **8.0700e-003** | **0.0000** | **33.0610** | **33.0610** | **5.3000e-004** | **2.7900e-003** | **33.9077** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0718 | 0.6547 | 0.8444 | 1.4200e-003 | | 0.0277 | 0.0277 | | 0.0261 | 0.0261 | 0.0000 | 121.7576 | 121.7576 | 0.0286 | 0.0000 | 122.4731 |
| **Total** | **0.0718** | **0.6547** | **0.8444** | **1.4200e-003** | | **0.0277** | **0.0277** | | **0.0261** | **0.0261** | **0.0000** | **121.7576** | **121.7576** | **0.0286** | **0.0000** | **122.4731** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2025

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 8.6000e-004 | 0.0368 | 0.0106 | 1.6000e-004 | 5.5700e-003 | 2.4000e-004 | 5.8100e-003 | 1.6100e-003 | 2.3000e-004 | 1.8400e-003 | 0.0000 | 15.5744 | 15.5744 | 8.0000e-005 | 2.3400e-003 | 16.2749 |
| Worker | 7.6900e-003 | 4.5500e-003 | 0.0587 | 1.9000e-004 | 0.0231 | 1.0000e-004 | 0.0232 | 6.1400e-003 | 9.0000e-005 | 6.2300e-003 | 0.0000 | 17.4866 | 17.4866 | 4.5000e-004 | 4.5000e-004 | 17.6328 |
| **Total** | **8.5500e-003** | **0.0413** | **0.0692** | **3.5000e-004** | **0.0287** | **3.4000e-004** | **0.0290** | **7.7500e-003** | **3.2000e-004** | **8.0700e-003** | **0.0000** | **33.0610** | **33.0610** | **5.3000e-004** | **2.7900e-003** | **33.9077** |

## 3.6 Paving - 2025

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 9.1500e-003 | 0.0858 | 0.1458 | 2.3000e-004 | | 4.1900e-003 | 4.1900e-003 | | 3.8500e-003 | 3.8500e-003 | 0.0000 | 20.0193 | 20.0193 | 6.4700e-003 | 0.0000 | 20.1811 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **9.1500e-003** | **0.0858** | **0.1458** | **2.3000e-004** | | **4.1900e-003** | **4.1900e-003** | | **3.8500e-003** | **3.8500e-003** | **0.0000** | **20.0193** | **20.0193** | **6.4700e-003** | **0.0000** | **20.1811** |

AGENDA ITEM NO. 16.

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Paving - 2025

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.0000e-004 | 2.4000e-004 | 3.0500e-003 | 1.0000e-005 | 1.2000e-003 | 1.0000e-005 | 1.2000e-003 | 3.2000e-004 | 0.0000 | 3.2000e-004 | 0.0000 | 0.9084 | 0.9084 | 2.0000e-005 | 2.0000e-005 | 0.9160 |
| **Total** | **4.0000e-004** | **2.4000e-004** | **3.0500e-003** | **1.0000e-005** | **1.2000e-003** | **1.0000e-005** | **1.2000e-003** | **3.2000e-004** | **0.0000** | **3.2000e-004** | **0.0000** | **0.9084** | **0.9084** | **2.0000e-005** | **2.0000e-005** | **0.9160** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 9.1500e-003 | 0.0858 | 0.1458 | 2.3000e-004 | | 4.1900e-003 | 4.1900e-003 | | 3.8500e-003 | 3.8500e-003 | 0.0000 | 20.0192 | 20.0192 | 6.4700e-003 | 0.0000 | 20.1811 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **9.1500e-003** | **0.0858** | **0.1458** | **2.3000e-004** | | **4.1900e-003** | **4.1900e-003** | | **3.8500e-003** | **3.8500e-003** | **0.0000** | **20.0192** | **20.0192** | **6.4700e-003** | **0.0000** | **20.1811** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Paving - 2025

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.0000e-004 | 2.4000e-004 | 3.0500e-003 | 1.0000e-005 | 1.2000e-003 | 1.0000e-005 | 1.2000e-003 | 3.2000e-004 | 0.0000 | 3.2000e-004 | 0.0000 | 0.9084 | 0.9084 | 2.0000e-005 | 2.0000e-005 | 0.9160 |
| **Total** | **4.0000e-004** | **2.4000e-004** | **3.0500e-003** | **1.0000e-005** | **1.2000e-003** | **1.0000e-005** | **1.2000e-003** | **3.2000e-004** | **0.0000** | **3.2000e-004** | **0.0000** | **0.9084** | **0.9084** | **2.0000e-005** | **2.0000e-005** | **0.9160** |

## 3.7 Architectural Coating - 2025

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 2.5849 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.7100e-003 | 0.0115 | 0.0181 | 3.0000e-005 | | 5.2000e-004 | 5.2000e-004 | | 5.2000e-004 | 5.2000e-004 | 0.0000 | 2.5533 | 2.5533 | 1.4000e-004 | 0.0000 | 2.5567 |
| **Total** | **2.5866** | **0.0115** | **0.0181** | **3.0000e-005** | | **5.2000e-004** | **5.2000e-004** | | **5.2000e-004** | **5.2000e-004** | **0.0000** | **2.5533** | **2.5533** | **1.4000e-004** | **0.0000** | **2.5567** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.7 Architectural Coating - 2025

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.9000e-004 | 1.7000e-004 | 2.2300e-003 | 1.0000e-005 | 8.8000e-004 | 0.0000 | 8.8000e-004 | 2.3000e-004 | 0.0000 | 2.4000e-004 | 0.0000 | 0.6662 | 0.6662 | 2.0000e-005 | 2.0000e-005 | 0.6717 |
| **Total** | **2.9000e-004** | **1.7000e-004** | **2.2300e-003** | **1.0000e-005** | **8.8000e-004** | **0.0000** | **8.8000e-004** | **2.3000e-004** | **0.0000** | **2.4000e-004** | **0.0000** | **0.6662** | **0.6662** | **2.0000e-005** | **2.0000e-005** | **0.6717** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 2.5849 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.7100e-003 | 0.0115 | 0.0181 | 3.0000e-005 | | 5.2000e-004 | 5.2000e-004 | | 5.2000e-004 | 5.2000e-004 | 0.0000 | 2.5533 | 2.5533 | 1.4000e-004 | 0.0000 | 2.5567 |
| **Total** | **2.5866** | **0.0115** | **0.0181** | **3.0000e-005** | | **5.2000e-004** | **5.2000e-004** | | **5.2000e-004** | **5.2000e-004** | **0.0000** | **2.5533** | **2.5533** | **1.4000e-004** | **0.0000** | **2.5567** |

AGENDA ITEM NO. 16.

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.7 Architectural Coating - 2025

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.9000e-004 | 1.7000e-004 | 2.2300e-003 | 1.0000e-005 | 8.8000e-004 | 0.0000 | 8.8000e-004 | 2.3000e-004 | 0.0000 | 2.4000e-004 | 0.0000 | 0.6662 | 0.6662 | 2.0000e-005 | 2.0000e-005 | 0.6717 |
| **Total** | **2.9000e-004** | **1.7000e-004** | **2.2300e-003** | **1.0000e-005** | **8.8000e-004** | **0.0000** | **8.8000e-004** | **2.3000e-004** | **0.0000** | **2.4000e-004** | **0.0000** | **0.6662** | **0.6662** | **2.0000e-005** | **2.0000e-005** | **0.6717** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.6651 | 1.1272 | 6.3070 | 0.0153 | 1.5673 | 0.0126 | 1.5799 | 0.4193 | 0.0118 | 0.4311 | 0.0000 | 1,452.2520 | 1,452.2520 | 0.0731 | 0.0778 | 1,477.2689 |
| Unmitigated | 0.6651 | 1.1272 | 6.3070 | 0.0153 | 1.5673 | 0.0126 | 1.5799 | 0.4193 | 0.0118 | 0.4311 | 0.0000 | 1,452.2520 | 1,452.2520 | 0.0731 | 0.0778 | 1,477.2689 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Single Family Housing | 1,444.32 | 1,459.62 | 1308.15 | 4,180,793 | 4,180,793 |
| Total | 1,444.32 | 1,459.62 | 1,308.15 | 4,180,793 | 4,180,793 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Single Family Housing | 10.80 | 7.30 | 7.50 | 48.40 | 15.90 | 35.70 | 86 | 11 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single Family Housing | 0.521458 | 0.053308 | 0.175656 | 0.151963 | 0.025001 | 0.006656 | 0.014407 | 0.022718 | 0.000702 | 0.000287 | 0.023515 | 0.001463 | 0.00286 |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 112.8805 | 112.8805 | 0.0183 | 2.2100e-003 | 113.9967 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 112.8805 | 112.8805 | 0.0183 | 2.2100e-003 | 113.9967 |
| NaturalGas Mitigated | 0.0198 | 0.1695 | 0.0721 | 1.0800e-003 | | 0.0137 | 0.0137 | | 0.0137 | 0.0137 | 0.0000 | 196.2585 | 196.2585 | 3.7600e-003 | 3.6000e-003 | 197.4248 |
| NaturalGas Unmitigated | 0.0198 | 0.1695 | 0.0721 | 1.0800e-003 | | 0.0137 | 0.0137 | | 0.0137 | 0.0137 | 0.0000 | 196.2585 | 196.2585 | 3.7600e-003 | 3.6000e-003 | 197.4248 |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Single Family Housing | 3.67775e+006 | 0.0198 | 0.1695 | 0.0721 | 1.0800e-003 | | 0.0137 | 0.0137 | | 0.0137 | 0.0137 | 0.0000 | 196.2585 | 196.2585 | 3.7600e-003 | 3.6000e-003 | 197.4248 |
| **Total** | | **0.0198** | **0.1695** | **0.0721** | **1.0800e-003** | | **0.0137** | **0.0137** | | **0.0137** | **0.0137** | **0.0000** | **196.2585** | **196.2585** | **3.7600e-003** | **3.6000e-003** | **197.4248** |

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Single Family Housing | 3.67775e+006 | 0.0198 | 0.1695 | 0.0721 | 1.0800e-003 | | 0.0137 | 0.0137 | | 0.0137 | 0.0137 | 0.0000 | 196.2585 | 196.2585 | 3.7600e-003 | 3.6000e-003 | 197.4248 |
| **Total** | | **0.0198** | **0.1695** | **0.0721** | **1.0800e-003** | | **0.0137** | **0.0137** | | **0.0137** | **0.0137** | **0.0000** | **196.2585** | **196.2585** | **3.7600e-003** | **3.6000e-003** | **197.4248** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Single Family Housing | 1.22002e+006 | 112.8805 | 0.0183 | 2.2100e-003 | 113.9967 |
| **Total** | | **112.8805** | **0.0183** | **2.2100e-003** | **113.9967** |

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Single Family Housing | 1.22002e+006 | 112.8805 | 0.0183 | 2.2100e-003 | 113.9967 |
| **Total** | | **112.8805** | **0.0183** | **2.2100e-003** | **113.9967** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Tract 000 - Fresno County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 1.3748 | 0.0703 | 1.1593 | 4.3000e-004 | | 0.0109 | 0.0109 | | 0.0109 | 0.0109 | 0.0000 | 68.1364 | 68.1364 | 3.0500e-003 | 1.2200e-003 | 68.5747 |
| Unmitigated | 1.3748 | 0.0703 | 1.1593 | 4.3000e-004 | | 0.0109 | 0.0109 | | 0.0109 | 0.0109 | 0.0000 | 68.1364 | 68.1364 | 3.0500e-003 | 1.2200e-003 | 68.5747 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.2585 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.0756 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 6.7000e-003 | 0.0572 | 0.0244 | 3.7000e-004 | | 4.6300e-003 | 4.6300e-003 | | 4.6300e-003 | 4.6300e-003 | 0.0000 | 66.2807 | 66.2807 | 1.2700e-003 | 1.2200e-003 | 66.6746 |
| Landscaping | 0.0341 | 0.0131 | 1.1350 | 6.0000e-005 | | 6.3000e-003 | 6.3000e-003 | | 6.3000e-003 | 6.3000e-003 | 0.0000 | 1.8557 | 1.8557 | 1.7800e-003 | 0.0000 | 1.9001 |
| **Total** | **1.3748** | **0.0703** | **1.1593** | **4.3000e-004** | | **0.0109** | **0.0109** | | **0.0109** | **0.0109** | **0.0000** | **68.1364** | **68.1364** | **3.0500e-003** | **1.2200e-003** | **68.5747** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.2585 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.0756 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 6.7000e-003 | 0.0572 | 0.0244 | 3.7000e-004 | | 4.6300e-003 | 4.6300e-003 | | 4.6300e-003 | 4.6300e-003 | 0.0000 | 66.2807 | 66.2807 | 1.2700e-003 | 1.2200e-003 | 66.6746 |
| Landscaping | 0.0341 | 0.0131 | 1.1350 | 6.0000e-005 | | 6.3000e-003 | 6.3000e-003 | | 6.3000e-003 | 6.3000e-003 | 0.0000 | 1.8557 | 1.8557 | 1.7800e-003 | 0.0000 | 1.9001 |
| **Total** | **1.3748** | **0.0703** | **1.1593** | **4.3000e-004** | | **0.0109** | **0.0109** | | **0.0109** | **0.0109** | **0.0000** | **68.1364** | **68.1364** | **3.0500e-003** | **1.2200e-003** | **68.5747** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 10.1884 | 0.3260 | 7.8100e-003 | 20.6642 |
| Unmitigated | 10.1884 | 0.3260 | 7.8100e-003 | 20.6642 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Single Family Housing | 9.96857 / 6.28453 | 10.1884 | 0.3260 | 7.8100e-003 | 20.6642 |
| **Total** | | **10.1884** | **0.3260** | **7.8100e-003** | **20.6642** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Single Family Housing | 9.96857 / 6.28453 | 10.1884 | 0.3260 | 7.8100e-003 | 20.6642 |
| **Total** | | **10.1884** | **0.3260** | **7.8100e-003** | **20.6642** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 32.0076 | 1.8916 | 0.0000 | 79.2975 |
| Unmitigated | 32.0076 | 1.8916 | 0.0000 | 79.2975 |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Single Family Housing | 157.68 | 32.0076 | 1.8916 | 0.0000 | 79.2975 |
| **Total** | | **32.0076** | **1.8916** | **0.0000** | **79.2975** |

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Single Family Housing | 157.68 | 32.0076 | 1.8916 | 0.0000 | 79.2975 |
| **Total** | | **32.0076** | **1.8916** | **0.0000** | **79.2975** |

## 9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 10.0 Stationary Equipment

### Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

### Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|---|---|---|---|---|---|

### User Defined Equipment

| Equipment Type | Number |
|---|---|

## 11.0 Vegetation

# Appendix-B
## ISR Fee Estimate

# Emissions Estimator Worksheet

| | |
|---|---|
| **Applicant/Business Name:** | **Lennar Central Valley California** |
| **Project Name:** | **Tract 6375** |
| **Project Location:** | **Northeast Portion of Shepherd and Minnewawa Ave, Clovis, Fresno County** |
| **District Project ID No.:** | |

## Project Construction Emissions

**If applicant selected Construction Clean Fleet Mitigation Measure - Please select "Yes" from dropdown menu:** No

| | | | NOx | | | | | PM10 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Project Phase Name | ISR Phase | Construction Start Date | Unmitigated Baseline[1] (TPY) | Mitigated Baseline[2] (TPY) | Achieved On-site Reductions[3] (tons) | Required Off-site Reductions[4] (tons) | Emission Reductions Required by Rule[5] | Unmitigated Baseline[1] (TPY) | Mitigated Baseline[2] (TPY) | Achieved On-site Reductions[3] (tons) | Required Off-site Reductions[4] (tons) | Emission Reductions Required by Rule[5] |
| Tract 6375 | 1 | 1/10/2025 | 3.3500 | 3.3500 | 0.0000 | 0.6700 | 0.6700 | 1.0900 | 1.0900 | 0.0000 | 0.4905 | 0.4905 |
| | 2 | | | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 |
| | 3 | | | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 |
| | 4 | | | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 |
| | 5 | | | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 |
| | 6 | | | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 |
| | 7 | | | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 |
| | 8 | | | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 |
| | 9 | | | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 |
| | 10 | | | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 |
| | | **Total** | **3.3500** | **3.3500** | **0.0000** | **0.6700** | 0.6700 | **1.0900** | **1.0900** | **0.0000** | **0.4905** | 0.4905 |

**Total Achieved On-Site Reductions (tons)**

| ISR Phase | NOx | PM10 |
|---|---|---|
| 1 | 0.0000 | 0.0000 |
| 2 | 0.0000 | 0.0000 |
| 3 | 0.0000 | 0.0000 |
| 4 | 0.0000 | 0.0000 |
| 5 | 0.0000 | 0.0000 |
| 6 | 0.0000 | 0.0000 |
| 7 | 0.0000 | 0.0000 |
| 8 | 0.0000 | 0.0000 |
| 9 | 0.0000 | 0.0000 |
| 10 | 0.0000 | 0.0000 |
| **Total** | **0.0000** | **0.0000** |

## Project Operations Emissions (Area + Mobile)

| | | | NOx | | | | | | PM10 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Project Phase Name | ISR Phase | Operation Start Date | Unmitigated Baseline[1] (TPY) | Mitigated Baseline[2] (TPY) | Achieved On-site Reductions[3] (tons) | Required Off-site Reductions[4] (tons) | Total Emission Reductions Required by Rule[6] | Average Annual Emission Reductions Required by Rule[7] | Unmitigated Baseline[1] (TPY) | Mitigated Baseline[2] (TPY) | Achieved On-site Reductions[3] (tons) | Required Off-site Reductions[4] (tons) | Total Emission Reductions Required by Rule[6] | Average Annual Emission Reductions Required by Rule[7] |
| Tract 6375 | 1 | 9/8/2025 | 3.9000 | 3.9000 | 0.0000 | 9.7500 | 9.7500 | 0.9750 | 8.0700 | 8.0700 | 0.0000 | 40.3500 | 40.3500 | 4.0350 |
| | 2 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 3 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 4 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 5 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 6 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 7 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 9 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 10 | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | | **Total** | **3.9000** | **3.9000** | **0.0000** | **9.7500** | **9.7500** | **0.9750** | **8.0700** | **8.0700** | **0.0000** | **40.3500** | **40.3500** | **4.0350** |

**Total Required Off-Site Reductions (tons)**

| ISR Phase | NOx | PM10 |
|---|---|---|
| 1 | 10.4200 | 40.8405 |
| 2 | 0.0000 | 0.0000 |
| 3 | 0.0000 | 0.0000 |
| 4 | 0.0000 | 0.0000 |
| 5 | 0.0000 | 0.0000 |
| 6 | 0.0000 | 0.0000 |
| 7 | 0.0000 | 0.0000 |
| 8 | 0.0000 | 0.0000 |
| 9 | 0.0000 | 0.0000 |
| 10 | 0.0000 | 0.0000 |
| **Total** | **10.4200** | **40.8405** |

**Notes:**

**TPY:** Tons Per Year

[1] **Unmitigated Baseline:** The project's baseline emissions generated with no on-site emission reduction measures.

[2] **Mitigated Baseline:** The project's baseline emissions generated after on-site emisison reduction measures have been applied.

[3] **Achieved On-site Reductions:** The project's emission reductions achieved after on-site emission reduction measures have been applied.

[4] **Required Off-site Reductions:** The project's remaining emission reductions required by Rule 9510 if on-site emission reduction measures did not achieive the required rule reductions.

[5] **Emission Reductions Required by Rule:** The project's emission reductions required (20% NOx and 45% PM10) for construction from the unmitigated baseline.

[6] **Total Emission Reductions Required by Rule:** The project's emission reductions required (33.3% NOx and 50% PM10) for operations from the unmitigated baseline over a 10-year period.

[7] **Average Annual Emission Reductions Required by Rule:** The project's total emission reduction for operations required by Rule 9510 divided by 10 years.

# Fee Estimator Worksheet

1/12/2024

AGENDA ITEM NO. 16.

| | |
|---|---|
| Applicant/Business Name: | Lennar Central Valley California |
| Project Name: | Tract 6375 |
| Project Location: | Northeast Portion of Shepherd and Minnewawa Ave, Clovis, Fresno County |
| District Project ID No.: | |

**NOTES:**
**(1)** The start date for each ISR phase is shown in TABLE 1.
**(2)** If you have chosen a **ONE-TIME** payment for the project, then the total amount due for ALL PHASES is shown under TABLE 2.
**(3)** If you have chosen a **DEFERRED** payment schedule or would like to propose a **DEFERRED** payment schedule for the project, the total amount due for a specific year is shown in TABLE 3 according to the schedule in TABLE 1.
* If you have not provided a proposed payment date, the District sets a default invoice date of 60 days prior to start of the ISR phase.

| If applicant selected Fee Deferral Schedule - Please select "Yes" from dropdown menu | Yes |
|---|---|

**TABLE 1 - PROJECT INFORMATION**

| Project Phase Name | ISR Phase | Start Date per Phase | Scheduled Payment Date* |
|---|---|---|---|
| 0 | 1 | 1/10/25 | FALSE |
| | 2 | | |
| | 3 | | |
| | 4 | | |
| | 5 | | |
| | 6 | | |
| | 7 | | |
| | 8 | | |
| | 9 | | |
| | 10 | | |
| TOTAL (tons) | | | |

**TABLE 2 - No Fee Deferral Schedule (FDS)**

| Pollutant | Required Offsite Reductions (tons) |
|---|---|
| NOx | 10.4200 |
| PM10 | 40.8405 |
| NOx | 0.0000 |
| PM10 | 0.0000 |
| NOx | 0.0000 |
| PM10 | 0.0000 |
| NOx | 0.0000 |
| PM10 | 0.0000 |
| NOx | 0.0000 |
| PM10 | 0.0000 |
| NOx | 0.0000 |
| PM10 | 0.0000 |
| NOx | 0.0000 |
| PM10 | 0.0000 |
| NOx | 0.0000 |
| PM10 | 0.0000 |
| NOx | 0.0000 |
| PM10 | 0.0000 |
| NOx | 0.0000 |
| PM10 | 0.0000 |
| NOx | 10.4200 |
| PM10 | 40.8405 |

| Offsite Fee by Pollutant ($) | | |
|---|---|---|
| | NOx | $97,427 |
| | PM10 | $368,013 |
| Administrative Fee ($) | | $18,617.60 |
| Offsite Fee ($) | | $465,440.00 |
| Total Project Offsite Fee ($) | | $484,057.60 |

| Rule 9510 Fee Schedule ($/ton) | | |
|---|---|---|
| Year | Nox | PM10 |
| 2022 and Beyond | $9,350 | $9,011 |

**TABLE 2 - NO FDS**

| 2022 |
|---|
| 10.4200 |
| 40.8405 |
| 0.0000 |
| 0.0000 |
| 0.0000 |
| 0.0000 |
| 0.0000 |
| 0.0000 |
| 0.0000 |
| 0.0000 |
| 0.0000 |
| 0.0000 |
| 0.0000 |
| 0.0000 |
| 0.0000 |
| 0.0000 |
| 0.0000 |
| 0.0000 |
| 0.0000 |
| 0.0000 |
| 0.0000 |
| 10.4200 |
| 40.8405 |

**TABLE 3 - APPROVED FEE DEFERRAL SCHEDULE (FDS) BY PAYMENT YEAR**

| 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 |
| $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 |
| | | | $0.00 | | | | | |

LIVE OAK
ASSOCIATES, INC.

# BIOLOGICAL EVALUATION
# LENNAR HOMES TRACT 6375
# FRESNO COUNTY, CALIFORNIA

Prepared by:

**LIVE OAK ASSOCIATES, INC.**

Austin Pearson, Vice President
Rebekah Jensen, Senior Project Manager and Ecologist

Prepared for:

Jeff Callaway
Lennar Homes of California, Inc.
8080 North Palm Avenue, Suite 110
Fresno, CA 93711

August 14, 2023, Rev. Oct. 16, 2024 PN 2798-02

## EXECUTIVE SUMMARY

Live Oak Associates, Inc. (LOA) investigated the biological resources of an approximately 59-acre site proposed for a residential development, and evaluated potential project-related impacts to such resources pursuant to the California Environmental Quality Act (CEQA). The site is located immediately north of Clovis city limits, in unincorporated Fresno County, California. The project would subdivide the existing parcel into 369 single-family lots, annex the development into the City of Clovis, and change the zoning to accommodate medium-density residential housing. Full buildout of the site is anticipated.

LOA's analysis was based on a reconnaissance-level field survey conducted on July 12, 2023 and follow-up site visit conducted on October 16, 2024. As of the 2024 survey, the site consisted of an active almond orchard, disked fields, and several former residential sites from which the structures and trees had been removed. It also contained five areas of significant ponded water that appeared to have resulted from unintentional irrigation, and supported wetland vegetation and/or animal species adapted to aquatic environments. These ponds are isolated, artificial features that are unlikely to be regulated by the U.S. Army Corps of Engineers, Regional Water Quality Control Board, or California Department of Fish and Wildlife as Waters of the U.S. or State.

The project site has the potential to support one special status plant species, the Sanford's arrowhead. Several populations of this species were observed in the nearby Enterprise Canal at the time of LOA's 2023 survey, and a member of the same genus, the giant arrowhead, was observed in one of the site's artificial ponds. The project site could also be used to varying degrees by six special status animal species: the monarch butterfly, Swainson's hawk, tricolored blackbird, pallid bat, spotted bat, and western mastiff bat. Monarchs migrating through the project vicinity may reproduce on the site's milkweed plants, roost in its orchard trees, and forage on its nectar resources. Swainson's hawks may nest in large trees adjacent to the site and forage in the site's ruderal areas. The remaining four species may forage on or over the site from time to time.

The project has the potential to significantly impact the Sanford's arrowhead, monarch butterfly, and Swainson's hawk through construction-related mortality or disturbance and, in the case of monarch, loss of reproductive habitat. These impacts can be mitigated to a less than significant level by limiting construction activities to lower-risk times of year, avoiding any protected resources identified during focused surveys, salvaging any Sanford's arrowhead populations that must be impacted, and providing replacement milkweed plantings for monarch reproduction.

No other biological resources would be significantly impacted by project implementation. Impacts are considered less than significant for 15 regionally-occurring special status plant species, 19 regionally-occurring special status animal species, wildlife movement corridors, sensitive natural communities, jurisdictional waters, and designated critical habitat. The project appears to be consistent with City of Clovis and County of Fresno General Plan policies related to biological resources, and there are no known Habitat Conservation Plans or Natural Community Conservation Plans in the area.

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# 1.0 INTRODUCTION

This technical report, prepared by Live Oak Associates, Inc. (LOA) in support of California Environmental Quality Act (CEQA) review, describes the biological resources of an approximately 59-acre site ("project site") proposed for a residential development ("project"), and evaluates the potential impacts to biological resources associated with project implementation. The project is located immediately north of Clovis city limits in unincorporated Fresno County, California (Figure 1). It may be found on the *Clovis* U.S. Geological Survey (USGS) 7.5-minute quadrangle, in Section 20 of Township 12 South, Range 21 East, Mount Diablo Base and Meridian (Figure 2).

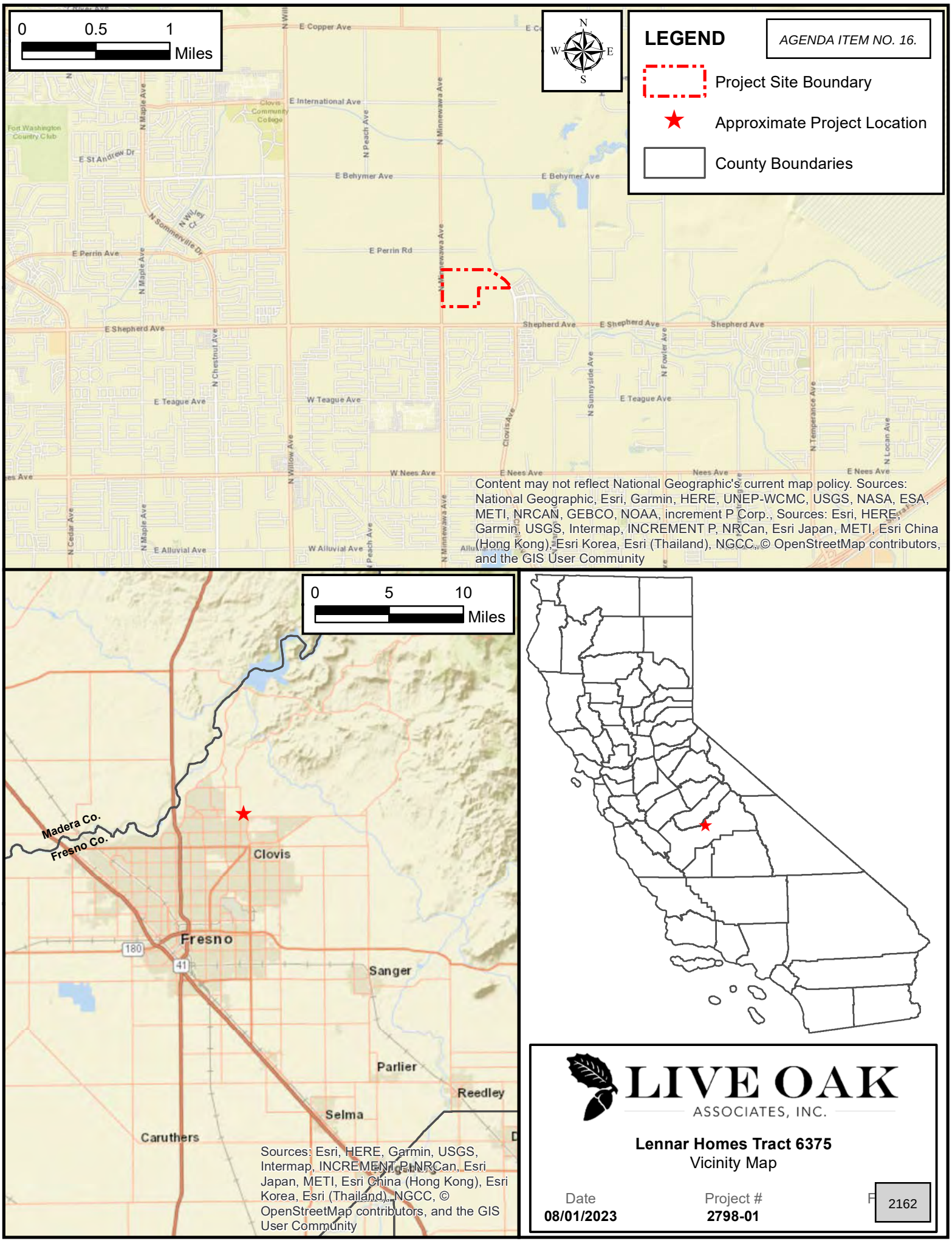
## 1.1 PROJECT DESCRIPTION

Lennar Homes of California, Inc. proposes a residential development on approximately 59 acres located north of East Shepherd Avenue, between North Minnewawa Avenue and the Clovis Avenue alignment. The existing Tract 6375 will be subdivided into 369 single-family lots and annexed into the City of Clovis. Current County of Fresno zoning is Single Family Residential-Agricultural (R-A), which provides for estate homes in a semi-rural environment; proposed City of Clovis zoning is Medium Density Residential (R-1-MD). The residential development will be located within the City of Clovis Heritage Grove Master Plan and will be subject to design development standards of the plan.

## 1.2 REPORT OBJECTIVES

This report summarizes a biological study conducted by LOA to facilitate environmental review pursuant to CEQA. As such, the report's objectives are to:

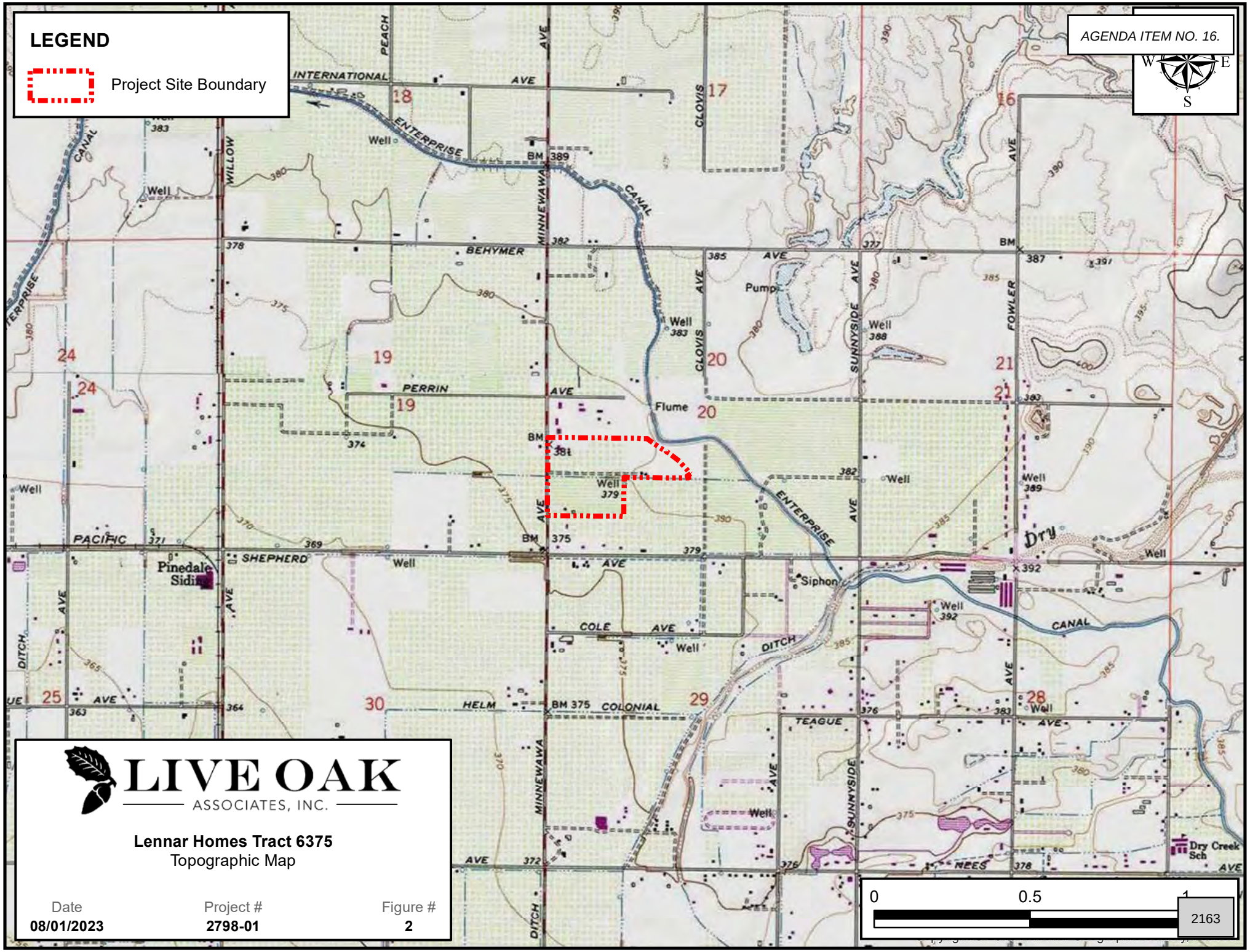
- Characterize the project site's existing biological resources, including biotic habitats, flora and fauna, soils, and aquatic resources
- Evaluate the project site's potential to support sensitive resources such as special status species, sensitive natural communities, and jurisdictional waters and wetlands
- Summarize all state and federal natural resource protection laws that may be relevant to project implementation




LIVE OAK ASSOCIATES, INC.

**Lennar Homes Tract 6375**
Vicinity Map

| Date | Project # | F |
|---|---|---|
| **08/01/2023** | **2798-01** | 2162 |




LIVE OAK ASSOCIATES, INC.

**Lennar Homes Tract 6375**
Topographic Map

| Date | Project # | Figure # |
|---|---|---|
| **08/01/2023** | **2798-01** | **2** |

- Identify and discuss potential project-related impacts to biological resources within the context of CEQA and other state and federal laws
- Identify avoidance and mitigation measures that would reduce the magnitude of project-related impacts in a manner consistent with CEQA and species-specific guidelines

## 1.3 STUDY METHODOLOGY

A reconnaissance-level field survey of the project site was conducted on July 12, 2023 by LOA ecologist Colleen Del Vecchio. The survey consisted of walking and driving through the project site while identifying its principal land uses, biotic habitats, flora, and fauna, and assessing its potential to support special status species and other sensitive resources. A follow-up site visit took place on October 16, 2024, following removal of the site's former residential trees and one of its two almond orchards. LOA ecologist Austin Pearson assessed these areas to characterize current land use.

LOA's survey effort did not include a formal aquatic resources delineation or focused surveys for special status species. The surveys were sufficient to assess the significance of possible biological impacts associated with project implementation, and to assess the need for more detailed studies that could be warranted if sensitive resources were identified in this initial survey.

LOA conducted an analysis of potential project impacts based on the known and potential biotic resources of the project site. Sources of information used in the preparation of this analysis included the *California Natural Diversity Data Base* (CDFW 2024), *Online Inventory of Rare and Endangered Vascular Plants of California* (CNPS 2024), and manuals, reports, and references related to plants and animals of the project vicinity.

# 2.0 EXISTING CONDITIONS

## 2.1 REGIONAL SETTING

The project site is located near the eastern margin of the San Joaquin Valley, about four miles southwest of the lowest Sierra foothills. The San Joaquin Valley is a large, nearly flat alluvial plain bordered by the Sierra Nevada to the east, the Tehachapi Mountains to the south, the California coast ranges to the west, and the Sacramento-San Joaquin Delta to the north.

Like most of California, the San Joaquin Valley experiences a Mediterranean climate. Warm, dry summers are followed by cool, moist winters. Summer temperatures commonly exceed 90 degrees Fahrenheit, and the relative humidity is generally very low. Winter temperatures rarely exceed 70 degrees Fahrenheit, with daytime highs often below 60 degrees Fahrenheit. Annual precipitation in the project vicinity varies considerably from year to year, but averages approximately 11 inches, almost all of which falls between the months of October and March (Western Regional Climate Center 2018). Nearly all precipitation falls in the form of rain.

The principal drainage of the project vicinity is Dry Creek, which originates in the Sierra Nevada foothills and flows past the project site approximately ½ mile to the southeast at its closest point. Like many other natural drainages in Fresno County, Dry Creek in the project vicinity is heavily modified, having been channelized, realigned, dammed, and diverted to prevent flooding and to convey flows around developed areas.

The project site is located in the outskirts of Clovis, at the interface of urban and rural land uses. It is situated in a mosaic of agricultural lands, rural residences, and low- to medium-density residential subdivisions; however, relatively undisturbed foothill grasslands and associated drainages and wetlands are located several miles to the north and northeast. Any such habitats that may have once occurred on the project site itself would have been eliminated with the site's conversion to agricultural uses.

## 2.2 PROJECT SITE

The project site has level topography and sits at an elevation of approximately 380 feet above sea level. At the time of LOA's 2023 field survey, it consisted of active almond orchards, disked fields,

and several former residential sites from which the structures and most of the trees had recently been removed. At the time of the 2024 site visit, it contained one remaining almond orchard and was otherwise characterized by ruderal fields.

The site contains six soil mapping units. These are: Visalia sandy loam, 0 to 3 percent slopes; Visalia sandy loam, clay loam substratum, 0 to 3 percent slopes; Tujunga loamy sand, 0 to 3 percent slopes; Exeter sandy loam; Ramona sandy loam; and Alamo clay (NRCS 2023). All but two of these mapping units are classified as hydric (NRCS 2011), meaning they have the propensity to pond water and support the growth of wetland vegetation. However, after decades of agricultural cultivation, the site no longer supports its native soil characteristics.

Lists of the vascular plant species observed within the project site and the terrestrial vertebrates using, or potentially using, the site are provided in Appendices A and B, respectively. Representative photographs are presented in Appendix C.

## 2.3 LAND USES / BIOTIC HABITATS

Three biotic habitats / land uses were identified within the project site: orchard, ruderal, and artificial pond. These habitats / land uses are depicted in Figure 3 and described in more detail in the following sections.

### 2.3.1 Orchard

As of LOA's 2024 site visit, the project site contained one active almond orchard, approximately 20 acres in size, in its southwestern corner. The orchard was highly maintained, with little vegetation in the understory. Where vegetation was present, it consisted of low growth of common agricultural weeds such as Canada horseweed (*Erigeron canadensis*), mallow (*Malva parviflora*), whitestem filaree (*Erodium moschatum*), and Bermuda grass (*Cynodon dactylon*). It was extensively irrigated as evidenced by a network of ditches and both flowing and ponded water observed during LOA's 2023 survey.

The site's orchard may be used by a few reptile species, including the western fence lizard (*Sceloporus occidentalis*), common kingsnake (*Lampropeltis californiae*), and Pacific gopher snake (*Pituophis catenifer catenifer*). Common amphibians such as the western toad (*Bufo boreas*)




LIVE OAK ASSOCIATES, INC.

**Lennar Homes Tract 6375**
Biotic Habitats / Land Uses

| Date | Project # | Figure # |
|---|---|---|
| **10/16/2024** | **2798-01** | **3** |

and Sierran treefrog (*Pseudacris sierra*) may disperse through orchards, particularly when frequent irrigation maintains areas of standing water or saturated soils for extended periods of time.

Orchards provide foraging and nesting habitat for a number of birds and raptors. Mature orchard trees may be used for nesting by the American robin (*Turdus migratorius*) and mourning dove (*Zenaida macroura*), among other species. Winter migrants such as the white-crowned sparrow (*Zonotrichia leucophrys*) may forage on dormant buds in the site's orchard, while resident birds such as the house finch (*Haemorhous mexicanus*) and non-native European starling (*Sturnus vulgaris*) may forage on ripening fruit. The Cooper's hawk (*Accipiter cooperii*) and sharp-shinned hawk (*Accipiter striatus*) are both adapted to woodland foraging, and may hunt for small birds in the site's orchard land.

Small mammal species with the potential to occur in the site's orchard include the Botta's pocket gopher (*Thomomys bottae*), California ground squirrel (*Otospermophilus beecheyi*), house mouse (*Mus musculus*), and deer mouse (*Peromyscus maniculatus*). At the time of the 2023 survey, gopher burrows were observed throughout the orchard. Mammalian predators potentially occurring in the orchards include the raccoon (*Procyon lotor*) and striped skunk (*Mephitis mephitis*). Various species of bat may forage over orchard habitat for flying insects or glean insects from the leaves of trees.

### 2.3.2 Ruderal

Outside of the orchard, the site is characterized primarily by ruderal (disturbed) upland habitats. At the time of LOA's 2024 site visit, these areas included the former location of an almond orchard in the northeastern corner of the site, former residential sites in the northwestern corner, dirt roads, disked fields, and the margins of these and other uses. The former residential sites had all of their structures and trees removed as of LOA's 2024 site visit, save a small patch of tree-of-heaven (*Ailanthus altissima*) at the western boundary, and were characterized by rough terrain with small dirt mounds and mowed vegetation. The former orchard location had been scraped and graded and contained scattered soil stockpiles. The roads were characterized by compacted dirt and were barren of vegetation. The disked fields appeared to have at one time supported a hay crop based on LOA's observations during the 2023 survey, but were unplanted during both site visits. Vegetation in the site's ruderal areas generally consisted of common weeds such as prickly lettuce

(*Lactuca serriola*), ripgut brome (*Bromus diandrus*), barley (*Hordeum marinum*), Coulter's horseweed (*Laennecia coulteri*), and shortpod mustard (*Hirschfeldia incana*).

The project site's ruderal lands are of relatively low value to native wildlife due to their degraded nature and generally limited vegetative cover; however, certain common species are likely to occur here. Expected reptile species include the western fence lizard and Pacific gopher snake, while expected amphibians include the western toad and Sierran treefrog. A few avian species could nest on the ground in the site's ruderal areas; these include the mourning dove, which may nest in ground vegetation, and the killdeer (*Charadrius vociferus*), which typically nests in barren areas. Avian species expected to forage in these areas include Brewer's blackbirds (*Euphagus cyanocephalus*), American crows (*Corvus brachyrhynchos*), and western kingbirds (*Tyrannus verticalis*). Mammalian use of the site's ruderal lands would include the species discussed above for the remaining almond orchard, and may also include the coyote (*Canis latrans*).

### 2.3.3 Artificial Pond

At the time of LOA's 2023 survey, the project site contained five areas of significant ponded water, all but one of which appeared to be fed by irrigation leaks. The remaining pond (Pond No. 1 on Figure 3) wasn't obviously being irrigated, but was situated close to the almond orchard and had poorly-drained clay soils, suggesting it may have captured and held excess irrigation from the orchard. Most of the ponded areas appear on one or more Google Earth aerial images from previous years, indicating they are recurrent and may have become, to some extent, a naturalized part of the landscape. One pond (Pond No. 5 on Figure 3) appeared newly-formed, and may have resulted from recent demolition activities on the site.

The ponds were inundated to varying degrees during the survey, with water depths ranging from roughly 2 to 6 inches. All were vegetated, and most supported vegetation typical of wetland environments, such as variable flatsedge (*Cyperus difformis*), giant arrowhead (*Sagittaria montevidensis*), cattails (*Typha latifolia*), and Mexican rush (*Juncus mexicanus*).

The project site's ponded areas may support a variety of animal species adapted to aquatic environments. At the time of the 2023 survey, aquatic invertebrates were observed in Pond Nos. 4 and 5 and juvenile western toads were observed in Pond Nos. 2, 3, and 4. Western toads are

assumed to breed in the ponds, as are Sierran treefrogs. The presence of these and other potential prey species may attract wading birds such as the great blue heron (*Ardea herodias*) and great egret (*Ardea alba*). Black phoebes (*Sayornis nigricans*) may use the ponds as a source of mud for nest-building. Rodents may burrow on the banks of the ponds, as was observed at Pond Nos. 3 and 4. Various mammalian species may utilize the ponds as a source of drinking water; for example, raccoon tracks were observed in Pond No. 5 at the time of LOA's 2023 survey.

## 2.4 SPECIAL STATUS PLANTS AND ANIMALS

Many species of plants and animals within the state of California have low populations, limited distributions, or both. Such species may be considered "rare" and are vulnerable to extirpation as the state's human population grows and the habitats these species occupy are converted to agricultural and urban uses. As described more fully in Section 3.3, state and federal laws have provided CDFW and the U.S. Fish and Wildlife Service (USFWS) with a mechanism for conserving and protecting the diversity of plant and animal species native to the state. A sizable number of native plants and animals have been formally designated as threatened or endangered under state and federal endangered species legislation. Others have been designated as "candidates" for such listing. Still others have been designated as "species of special concern" by the CDFW. The California Native Plant Society (CNPS) has developed its own set of lists of native plants considered rare, threatened or endangered (CNPS 2024). Collectively, these plants and animals are referred to as "special status species."

The California Natural Diversity Data Base (CNDDB) (CDFW 2024) was queried for special status species occurrences in the nine USGS 7.5-minute quadrangles containing and immediately surrounding the project site *(Clovis, Lanes Bridge, Friant, Academy, Round Mountain, Sanger, Malaga, Fresno South,* and *Fresno North*). These species, and their potential to occur on site, are listed in Table 1 on the following pages. Sources of information for Table 1 included *California's Wildlife, Volumes I, II, and III* (Zeiner et. al 1988), *The Jepson Manual: Vascular Plants of California, second edition* (Baldwin et al. 2012), CNPS's *Online Inventory of Rare and Endangered Vascular Plants of California* (CNPS 2024), Calflora.org, and eBird.org.

## TABLE 1. LIST OF SPECIAL STATUS SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY

**PLANTS**

***Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Act***

| Species | Status | Habitat | Occurrence on the Project Site |
|---|---|---|---|
| Succulent owl's clover (*Castilleja campestris var. succulenta*) | FT, CE, CRPR 1B | Occurs in freshwater wetlands, and occasionally in non-wetlands in Valley grassland and foothill woodlands, between 130 and 2,000 ft. in elevation. Blooms April-May. | **Absent**. Suitable vernal pool habitat for this species is absent from the project site and adjacent lands. |
| California jewelflower (*Caulanthus californicus*) | FE, CE, CRPR 1B | Occurs in chenopod scrub, pinyon and juniper woodland, and valley and foothill grassland in sandy soils. Elevations between 200 and 3,300 feet. Blooms February-May. | **Absent**. Suitable habitat for this species is absent from the project site and adjacent lands. Any habitat that may have once been present would have been eliminated with the site's historic conversion to agricultural and residential uses. |
| San Joaquin Valley orcutt grass (*Orcuttia inaequalis*) | FT, CE CRPR 1B | Occurs in Central Valley vernal pools between 130 and 820 ft. in elevation. Requires deep pools with prolonged periods of inundation. Blooms April-Sept. | **Absent**. Suitable vernal pool habitat for this species is absent from the project site and adjacent lands. |
| Hairy orcutt grass (*Orcuttia pilosa*) | FE, CE CRPR 1B | Occurs in Central Valley vernal pools between 65 and 1,215 ft. in elevation. Requires deep pools with prolonged periods of inundation. Blooms May-Sept. | **Absent**. Suitable vernal pool habitat for this species is absent from the project site and adjacent lands. |
| Hartweg's golden sunburst (*Pseudobahia bahiifolia*) | FE, CE CRPR 1B | Occurs in grasslands of the western foothills of the Sierra Nevada in heavy clay soils of the Porterville, Cibo, Mt. Olive and Centerville soil series, between 230 and 525 ft. in elevation. Blooms March-April. | **Absent**. Suitable habitat and soils for this species are absent from the project site and adjacent lands. |
| San Joaquin adobe sunburst (*Pseudobahia peirsonii*) | FT, CE, CRPR 1B | Annual sunflower occurs in grasslands of the Sierra Nevada foothills in heavy clay soils of the Porterville and Centerville series, between 300 and 2,625 ft. in elevation. Blooms March-April. | **Absent**. Suitable habitat and soils for this species are absent from the project site and adjacent lands. |
| Greene's tuctoria (*Tuctoria greenei*) | FE, CR CRPR 1B | Occurs in vernal pools between 130 and 3,740 ft. in elevation. Requires deep pools with prolonged periods of inundation. Blooms May-Sept. | **Absent**. Suitable vernal pool habitat for this species is absent from the project site and adjacent lands. |

***CNPS-ranked Species***

| | | | |
|---|---|---|---|
| Hoover's calycadenia (*Calycadenia hooveri*) | CRPR 1B | Occurs in valley grasslands and foothill woodlands between 200 and 980 ft. in elevation. Blooms June-September. | **Absent**. Suitable habitat for this species is absent from the project site and adjacent lands. Any habitat that may have once been present would have been eliminated with the site's historic conversion to agricultural and residential uses. |
| Bristly sedge (*Carex comosa*) | CRPR 2B | Found at the margins of lakes and other marsh habitats within valley and foothill grassland and coastal prairie ecosystems. Elevations up to 2,000 ft. Blooms May-September. | **Absent**. Suitable habitat for this species is absent from the project site and adjacent lands. |

## TABLE 1. LIST OF SPECIAL STATUS SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY

**PLANTS (cont'd)**

***CNPS-Listed Species***

| Species | Status | Habitat | Occurrence on the Project Site |
|---|---|---|---|
| Dwarf downingia (*Downingia pusilla*) | CRPR 2B | Occurs in vernal pools in valley and foothill grassland habitats up to 1,460 ft. in elevation. Blooms March-May. | **Absent**. Suitable vernal pool habitat for this species is absent from the project site and adjacent lands. |
| Spiny-sepaled button-celery (*Eryginum spinosepalum*) | CRPR 1B | Occurs in vernal pools in valley and foothill grasslands of the San Joaquin Valley and the Tulare Basin, between 330 and 840 ft. in elevation. Blooms April-May. | **Absent**. Suitable vernal pool habitat for this species is absent from the project site and adjacent lands. |
| California satintail (*Imperata brevifolia*) | CRPR 2B | Found in wetland seeps and riparian areas within various types of scrub, chaparral, and desert communities up to 4,000 feet in elevation. Blooms September-May. | **Absent.** Suitable habitat for this species is absent from the project site and adjacent lands. |
| Forked hare-leaf (*Lagophylla dichotoma*) | CRPR 1B | Occurs in woodland and valley and foothill grassland habitats, sometimes in clay soils, at elevations from 165 to 3,150 ft. Blooms April-May. | **Absent**. Suitable habitat for this species is absent from the project site. Any habitat that may have once been present would have been eliminated with the site's historic conversion to agricultural and residential uses. |
| Madera leptosiphon (*Leptosiphon serrulatus*) | CRPR 1B | Occurs in openings in cismontane woodland between 980 and 1,400 ft. in elevation. Blooms April-May | **Absent**. Habitat for the Madera leptosiphon is absent from the project site and adjacent lands, and the site is situated below this species' elevational distribution. |
| Pincushion navarretia (*Navarretia myersii ssp. myersii*) | CRPR 1B | Found in vernal pools within annual grassland habitats at elevations up to 1,000 ft. Blooms April-May. | **Absent**. Suitable vernal pool habitat for this species is absent from the project site and adjacent lands. |
| Sanford's arrowhead (*Sagittaria sanfordii*) | CRPR 1B | Occurs in shallow freshwater marshes, ponds, sloughs, and ditches of the Central Valley and Sierra Nevada foothills up to 2,100 ft. in elevation. Blooms May-October. | **Possible.** During LOA's 2023 survey, this species was observed at five locations in the Enterprise Canal immediately adjacent to the project site, and has some potential to colonize the site's ponded areas. A different member of the same genus, *S. montevidensis*, was observed in Pond No. 4 at the time of LOA's 2023 survey. |

**ANIMALS (adapted from CDFW 2022 and USFWS 2022)**

***Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Act***

| | | | |
|---|---|---|---|
| Monarch butterfly (*Danaus plexippus*) | FC | Overwinters in coastal California and Baja California and breeds throughout California in the spring and summer along its annual migration north and east. The adult monarch lays its eggs on milkweed host plants, which the larvae feed on before pupating and emerging as adults. In addition to milkweed, this species requires abundant nectar resources to nourish migrating adults, and trees for roosting during migratory stopovers. | **Possible.** Monarchs may forage or roost on site during migration, and may potentially also breed on site. At the time of LOA's 2023 survey, approximately 10-15 narrowleaf milkweed (*Asclepias fascicularus*) plants were observed near the margin of one of the disked fields. |

## TABLE 1. LIST OF SPECIAL STATUS SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY

**ANIMALS (cont'd)**

***Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Act***

| Species | Status | Habitat | Occurrence on the Project Site |
|---|---|---|---|
| Crotch bumblebee (*Bombus crotchii*) | CCE | Once common in the Central Valley, this species is now absent from most of it, particularly in the central portion of its historic range. Where present, it is associated with open grassland and scrub habitats, where it relies on food plants of the *Asclepias, Chaenactis, Lupinus, Medicago, Phacelia,* and *Salvia* genera (Williams et al. 2014). | **Unlikely.** Habitat and landscape factors make it extremely unlikely that this species would occur on site. See expanded discussion below. |
| Valley elderberry longhorn beetle (VELB) (*Desmocerus californicus dimorphus*) | FT | Lives in mature elderberry shrubs of California's Central Valley and Sierra foothills, generally along waterways and in floodplains. | **Absent.** The USFWS has revised its understanding of VELB distribution to exclude the San Joaquin Valley south of Merced County. Purported VELB sightings in this part of the Valley are now believed to represent the more common *D. californicus californicus*. |
| Vernal pool fairy shrimp (*Branchinecta lynchi*) | FT | Occurs in vernal pools, clear to tea-colored water in grass or mud-bottomed swales, and basalt depression pools. | **Absent.** Suitable vernal pool habitat for this species is absent from the project site and surrounding lands. |
| California tiger salamander (CTS) (*Ambystoma californiense*) | FT, CT | Found primarily in annual grasslands; requires vernal pools for breeding and rodent burrows for aestivation. Although most CTS aestivate within 0.4 mile of their breeding pond, outliers may aestivate up to 1.3 miles away (Orloff 2011). | **Unlikely.** Habitat and landscape factors make it extremely unlikely that this species would occur on site. See expanded discussion below. |
| Western spadefoot (*Spea hammondii*) | FPT, CSC | Occurs in grasslands of San Joaquin Valley, where it breeds in vernal pools or other seasonal wetlands and aestivates in underground refugia such as rodent burrows. Baumberger et al. (2019) recorded a maximum distance of around 890 feet between breeding and aestivation sites. | **Unlikely.** The western spadefoot has been documented in grassland habitats approximately 3 miles north of the project site, and likely also occurs in the contiguous grassland that extends to within 1.2 miles east of the site. It is highly unlikely to have persisted in the anthropogenic landscape that characterizes the immediate project vicinity, and the site is well outside of the distance from suitable habitat that this species is capable of dispersing. |
| Western pond turtle (*Actinemys marmorata*) | FPT, CSC | Occurs in ponds, lakes, rivers, streams, creeks, marshes, and irrigation ditches with abundant vegetation, and either rocky or muddy bottoms in woodland, forest, and grasslands. Logs, rocks, cattail mats, and exposed banks are required for basking. | **Unlikely.** The project site lacks suitable aquatic habitat for the western pond turtle. Although this species has been documented in the Enterprise Canal approximately 2 miles downstream of the project site, the reach of the canal that flows past the site is unlikely to support this species because it is cement-lined, supports minimal vegetation, and lacks basking habitat. |

## TABLE 1. LIST OF SPECIAL STATUS SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY

**ANIMALS (cont'd)**

***Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Act***

| Species | Status | Habitat | Occurrence on the Project Site |
|---|---|---|---|
| Swainson's hawk (*Buteo swainsoni*) | CT | This breeding migrant to California nests in mature trees in riparian areas and oak savannah, and in lone trees at the margins of agricultural fields. Requires adjacent suitable foraging areas such as grasslands or alfalfa fields supporting rodent populations. | **Possible.** The project site is situated in the outskirts of Clovis, in a landscape dominated by residential development, orchards, and other uses incompatible with Swainson's hawk foraging and nesting ecology. Nevertheless, this species is occasionally sighted in the project vicinity (eBird 2024), and there is some potential for Swainson's hawks to forage in the site's ruderal areas from time to time. Nesting habitat is absent from the project site, but trees structurally suitable for Swainson's hawk nesting are found on adjacent lands. |
| Burrowing owl (*Athene cunicularia*) | CCE | Found in grassland, desert, and scrub habitats characterized by low growing vegetation. Dependent upon burrowing mammals, most notably the California ground squirrel, for nest burrows. | **Unlikely.** Habitat and landscape factors make it extremely unlikely that this species would occur on site. See expanded discussion below. |
| Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*) | FT, CE | Found in valley foothill and desert riparian habitats in scattered locations in California. | **Absent**. This species has been extirpated from the project vicinity. |
| Least Bell's vireo (*Vireo bellii pusillus*) | FE, CE | Found in riparian habitat, especially dense, low-growing thickets of willow and mesquite, often with a taller overstory of willows, cottonwoods, and sycamores. Forages in chaparral and scrub. | **Absent.** Suitable habitat for this species is absent from the project vicinity. |
| Tricolored blackbird (*Agelaius tricolor)* | CT | Nests colonially near fresh water in dense cattails or tules, in thickets of willows or shrubs, and increasingly in grain fields. Forages in grassland and cropland areas. | **Possible.** Tricolored blackbirds may occasionally forage in the project site's ruderal areas. The site does not contain habitat that could support colonial nesting by this species. |
| Fresno kangaroo rat (*Dipodomys nitratoides exilis*) | FE, CE | Historically occupied chenopod scrub and grassland communities on the San Joaquin Valley floor east of the wetlands of the San Joaquin River and Fresno Slough, but no populations are presently known. Associated with bare alkaline clay-based soils in level terrain. | **Absent**. The project site does not contain suitable habitat for the Fresno kangaroo rat, and no known populations of this species remain in Fresno County. |
| San Joaquin kit fox (SJKF) (*Vulpes macrotis mutica*) | FE, CT | Frequents desert alkali scrub and annual grasslands and may forage in adjacent agricultural habitats. Utilizes enlarged ground squirrel burrows as denning habitat. | **Unlikely.** The highly disturbed habitats of the project site and surrounding lands are marginal, at best, for this species. Moreover, there are no natural occurrences of the SJKF in the project vicinity. There is only one record of this species within a 10-mile radius, recorded in Friant in the early 1990s. That sighting has since been characterized by the observer as a kit fox that had been domesticated and transported from |

| | | | |
|---|---|---|---|
| | | | another part of the state (D. Mitchell, pers. comm.). |

## TABLE 1. LIST OF SPECIAL STATUS SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY

**ANIMALS (cont'd)**

***California Species of Special Concern or Fully Protected***

| | | | |
|---|---|---|---|
| Hardhead (*Mylopharadon conocephalus*) | CSC | Occurs in clear deep streams with a slow but present flow, in a low to mid-elevation environment. May also inhabit lakes or reservoirs. Spawns in pools, runs, or rifles with a gravel and rocky substrate. | **Absent.** Suitable aquatic habitat is absent from the project site. |
| Northern California legless lizard (*Anniella pulchra*) | CSC | Occurs in sparsely vegetated areas of beach dunes, chaparral, pine-oak woodlands, desert scrub, sandy washes, and stream terraces with sycamores, cottonwoods, or oaks. Requires moist soils. | **Absent.** The only CNDDB record for the northern California legless lizard in the Fresno/Clovis area is from the 1880s. Any habitat for this species that may have once been present in the project vicinity would have been lost with the area's conversion to intensive agriculture and other anthropogenic uses. |
| Coast horned lizard (*Phrynosoma blainvillii*) | CSC | Ranges from the central and southern California coast inland through the western Sierra Nevada, where it is found in grassland and open areas within woodland and forest habitats. Often found in sandy areas including washes and floodplains. | **Absent.** The only CNDDB record for the coast horned lizard in the Fresno/Clovis area is from 1893. Any habitat for this species that may have once been present in the project vicinity would have been lost with the area's conversion to intensive agriculture and other anthropogenic uses. |
| California glossy snake (*Arizona elegans occidentalis*) | CSC | Inhabits arid scrub, rocky washes, grasslands, and chaparral, where it forages nocturnally, hiding in underground burrows during the day. Prefers loose, sandy soils. | **Absent.** The only CNDDB record for the California glossy snake in the Fresno/Clovis area is from 1893. Any habitat for this species that may have once been present in the project vicinity would have been lost with the area's conversion to intensive agriculture and other anthropogenic uses. |
| Pallid bat (*Antrozous pallidus*) | CSC | Found in grasslands, chaparral, and woodlands, where it feeds on ground- and vegetation-dwelling arthropods, and occasionally takes insects in flight. Prefers to roost in rock crevices, but many also use tree cavities, caves, bridges, and buildings. | **Possible**. The pallid bat could potentially forage on or over the site, but roosting habitat is absent. |
| Spotted bat (*Euderma maculatum*) | CSC | Typically associated with prominent rocky habitats where it roosts in crevices, but is known to occur in a wide range of habitats. Forages in large open habitats, including Ponderosa pine forests and marshlands. | **Possible.** The spotted bat could forage over the site, but roosting habitat is absent. |
| Western mastiff bat (*Eumops perotis* ssp. *californicus*) | CSC | Frequents open, semi-arid to arid habitats, including conifer, and deciduous woodlands, coastal scrub, grasslands, palm oasis, chaparral and urban. Roosts in cliff faces, high buildings, and tunnels. | **Possible.** The western mastiff bat could forage over the site, but roosting habitat is absent. |

**TABLE 1. LIST OF SPECIAL STATUS SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY**

**ANIMALS (cont'd)**

***California Species of Special Concern or Fully Protected***

| Species | Status | Habitat | Occurrence on the Project Site |
|---|---|---|---|
| American badger (*Taxidea taxus*) | CSC | Found in drier open stages of most shrub, forest, and herbaceous habitats with friable soils. Utilize subterranean burrows, usually self-dug, for rest and reproduction. | **Unlikely.** The site's disturbed nature and urban setting make it highly unlikely to be occupied or utilized by American badgers. |

**OCCURRENCE DESIGNATIONS AND STATUS CODES**

Present: Species observed on the site at time of field surveys or during recent past.
Likely: Species not observed on the site, but it may reasonably be expected to occur there on a regular basis.
Possible: Species not observed on the site, but it could occur there from time to time.
Unlikely: Species not observed on the site, and would not be expected to occur there except, perhaps, as a transient.
Absent: Species not observed on the site and precluded from occurring there because habitat requirements not met.

**STATUS CODES**

| | | | |
|---|---|---|---|
| FE | Federally Endangered | CE | California Endangered |
| FT | Federally Threatened | CT | California Threatened |
| FC | Federal Candidate | CCE | California Candidate Endangered |
| | | CFP | California Fully Protected |
| | | CSC | California Species of Special Concern |
| | | CR | California Rare |

**CNPS LISTING**

| | | | |
|---|---|---|---|
| 1A | Plants Presumed Extinct in California | 2 | Plants Rare, Threatened, or Endangered in California, but more common elsewhere |
| 1B | Plants Rare, Threatened, or Endangered in California and elsewhere | | |

## 2.5 EXPANDED DISCUSSIONS FOR SPECIAL STATUS SPECIES

### 2.5.1 Crotch Bumble Bee

***Ecology of the Species.*** A species of open grassland and scrub habitats, the Crotch bumble bee (*Bombus crotchii*) historically ranged throughout central and southern California, from the coast and coastal ranges through the Central Valley and adjacent foothills. It has experienced sharp declines in terms of both range extent and abundance. It has largely been extirpated from the Central Valley following widespread conversion of grassland habitats to agricultural and urban uses (CDFW 2019, The Xerces Society 2018).

Like all bumble bees, the Crotch bumble bee has three basic habitat requirements: suitable nesting sites, suitable overwintering sites, and suitable foraging habitat. Crotch bumble bee nesting and overwintering sites are not well understood but are likely to reflect general bumble bee preferences,

with nesting taking place in animal burrows and other underground refugia, and overwintering taking place in soft, disturbed soil or under leaf litter or other debris (The Xerces Society 2018). This species feeds only on nectar and pollen from flowering plants, and requires a constant supply of flowers in bloom throughout its active season. Its preferred plant families in California are Fabaceae, Apocynaceae (Ascelpiadaceae), Asteraceae, Laminaceae, Hydrophyllaceae, and Boraginaceae; however, as a generalist forager, it may utilize families beyond this list (The Xerces Society 2018).

***Potential to Occur on Site.*** At the time of LOA's surveys, the project site contained habitat features that could theoretically be used by the Crotch bumble bee, if this species were to occur in the vicinity. These included California ground squirrel and gopher burrows, soft soils associated with home demolition sites and disked fields, and various flowering plant species, including members of the Fabaceae, Apocynaceae (Asclepiadaceae), and Asteraceae families. However, the project site is situated in the outskirts of Clovis, in an area devoid of the open natural habitats with which this species is associated. Lands surrounding the project site are characterized by the very uses thought to be associated with the Crotch bumble bee's near-extirpation from the Central Valley; namely, intensive agriculture and urban developments (CDFW 2019, The Xerces Society 2018). That, combined with the disturbed and degraded nature of the project site itself, suggest an extremely low potential for this species to occur on site.

This conclusion is supported by our review of publicly-available occurrence datasets. The only CNDDB occurrence in the vicinity is historical in nature, an April 1899 collection made in the general vicinity of Fresno. In fact, there are no modern (1980 or later) CNDDB occurrences of this species on the valley floor within 100 miles of the project site (CDFW 2024). Similarly, iNaturalist and Bumble Bee Watch sightings of the Crotch's bumble bee are overwhelmingly in the foothills of the Sierra Nevada and coast ranges, rather than on the valley floor. When on the valley floor, sightings tend to be located in or immediately adjacent to grassland habitat; for example, Bumble Bee Watch sightings at the Merced National Wildlife Refuge, San Luis National Wildlife Refuge, and grassland along Madera County Road 400 at the valley's eastern margin (Bumble Bee Watch 2024). There are occasional sightings in backyard gardens; for example, a 2019 iNaturalist sighting in the Old Fig Garden neighborhood of Fresno (iNaturalist 2024). The latter must be considered

outliers in light of the preponderance of occurrences, however, and do not point to any appreciable potential for this species to occur on site.

### 2.5.2 California Tiger Salamander

***Ecology of the Species.*** The California tiger salamander (*Ambystoma californiense*) is found in grasslands and open woodlands of California's Central Valley and coast ranges that contain vernal pools, stock ponds, or other seasonal aquatic habitat for breeding and rodent burrows for aestivation. It spends most of the year aestivating underground in rodent burrows or other suitable refugia. Following the first significant winter rains, CTS leave their aestivation sites and travel to the pools or ponds in which they breed. Eggs hatch within approximately 3 weeks, and the resultant larvae develop into adults within 10 to 12 weeks. For the larvae to survive, development must be complete before the ponds dry; typically, an inundation duration of four months or more is required. As the pools dry, all CTS return to upland burrows. CTS have been documented traveling up to 2.2 kilometers (1.37 miles) from breeding pools to aestivate (Orloff 2011). Typical migration distances are much shorter; for example, 10,042 individual CTS on the Jepson Prairie had a median migration distance of 556 meters (0.35 mile) from their breeding ponds (Searcy et al. 2013).

***Potential to Occur on Site.*** CTS were historically common in the project vicinity; the CNDDB lists 13 occurrences within 5 miles of the project site (CDFW 2024). All extant occurrences in the project vicinity are associated with contiguous grassland habitats. The closest such grassland is about 1.2 miles east of the project site at its nearest point. The closest extant CTS occurrences are in this same grassland area, at about 1.5 and 1.7 miles east of site boundaries. While CTS associated with this block of natural land may be physiologically capable of accessing the project site, it is extremely unlikely that individuals of this species would forgo suitable habitat in favor of the anthropogenic landscape that characterizes the project vicinity. To reach the project site, CTS individuals would have to traverse residential developments, roads, and the Enterprise Canal, which are collectively expected to represent a significant barrier to movement by this species.

### 2.5.3 Burrowing Owl

***Ecology of the Species.*** The burrowing owl (*Athene cunicularia*) is associated with open, dry annual or perennial grasslands, deserts, and scrublands, and some agricultural lands. The primary

indicators of suitable habitat appear to be burrows for roosting and nesting and relatively short vegetation, with only sparse areas of shrubs or taller vegetation. Burrowing owls roost and nest in the burrows of California ground squirrels, and occasionally also badger, coyote, or fox. The burrowing owl diet includes a broad array of arthropods, small rodents, birds, reptiles, and amphibians. In California, burrowing owl survival and reproductive success appears linked to rodent populations, particularly California vole (*Microtus californicus*) (Gervais et al. 2006). In agricultural areas of the San Joaquin Valley, burrowing owls primarily forage within 600 meters of their nest burrows (Gervais et al. 2003). Burrowing owls are unlikely to persist in agricultural landscapes dominated by vineyards and orchards (Gervais et al. 2008).

***Potential to Occur on Site.*** Although the project site contains marginally suitable habitat for this species in the form of ruderal open areas with scattered rodent burrows, it is situated in a landscape dominated by residential developments, orchards, and other uses incompatible with burrowing owl ecology, making it unlikely that this species would occur in the vicinity and be able to access the project site.

The closest known burrowing owl occurrences are approximately 3 miles to the east of project boundaries, in contiguous grassland habitat associated with Dry Creek and the Big Dry Creek Reservoir (eBird 2024). The closest CNDDB occurrence is approximately 5.5 miles south of the project site at the Fresno Yosemite International Airport, where burrowing owls were historically known to occur (CDFW 2024), and may still have some presence based on a 2018 eBird sighting (eBird 2024). The nearest unobscured[1] iNaturalist sightings are more than 15 miles southwest of the site at the Fresno-Clovis Regional Wastewater Treatment Facility. Although the latter two observation locations highlight this species' ability to become naturalized in certain types of urban open space, they do not indicate any real potential for burrowing owls to occur in the predominantly unsuitable landscape that characterizes the immediate project vicinity.

[1] iNaturalist obscures observation locations when requested by the observer, or categorically for certain imperiled species. As of the writing of this report, burrowing owl observations are not obscured across the board, but some San Joaquin Valley records have had their coordinates randomized at the observers' request.

## 2.6 JURISDICTIONAL WATERS

Jurisdictional waters are those rivers, creeks, drainages, lakes, ponds, reservoirs, and wetlands that are subject to the authority of the USACE, CDFW, and/or the RWQCB. In general, the USACE regulates navigable waters, tributaries to navigable waters, and wetlands with a continuous surface connection to these waters, where wetlands are defined by the presence of hydric soils, hydrophytic vegetation, and wetland hydrology. All waters under USACE jurisdiction are also regulated by the RWQCB as waters of the State. Additionally, the RWQCB asserts jurisdiction over certain isolated features disclaimed by the USACE. The CDFW has jurisdiction over waters that have a defined bed and bank. The regulation of jurisdictional waters is discussed in more detail in Section 3.2.7.

As discussed, at the time of LOA's 2023 survey the project site contained several areas of ponded water that appeared to have resulted from unintentional irrigation. Although a formal aquatic resources delineation (ARD) was not conducted, the ponds were generally mapped, and totaled approximately ¼ acre. Most of the ponds supported wetland vegetation, suggesting prolonged inundation. One of the ponds (Pond No. 5 on Figure 3) appeared to have formed in the year prior to the 2023 survey; all others are visible on one or more Google Earth aerial images from previous years.

In the absence of an ARD, it is uncertain whether these ponds meet the technical criteria of wetlands. However, regardless of their wetland status, the ponds are isolated features that would not be regulated by the USACE, and do not appear to fit into any of the categories of waters regulated by the RWQCB (SRWCB 2021). CDFW is also not expected to assert jurisdiction over the ponded areas.

## 2.7 SENSITIVE NATURAL COMMUNITIES

California contains a wide range of natural communities, or unique assemblages of plants and animals. These communities have largely been classified and mapped by CDFW as part of their Vegetation Classification and Mapping Program (VegCAMP). Natural communities are assigned state and global ranks according to their rarity and the magnitude and trend of the threats they face. Any natural community with a state rank of 3 or lower (on a 1 to 5 scale) is considered "sensitive" and must be considered in CEQA review.

The project site does not contain or adjoin any sensitive natural communities.

## 2.8 WILDLIFE MOVEMENT CORRIDORS

Wildlife movement corridors are routes that animals regularly and predictably follow during seasonal migration, dispersal from native ranges, daily travel within home ranges, and inter-population movements. Movement corridors in California are typically associated with valleys, ridgelines, and rivers and creeks supporting riparian vegetation.

The project site does not contain or adjoin any features likely to function as wildlife movement corridors. The Enterprise Canal is not expected to function in this capacity because it is a highly maintained artificial waterway, lacks vegetation for hiding cover, and does not interconnect blocks of natural land.

## 2.9 DESIGNATED CRITICAL HABITAT

The USFWS often designates areas of "critical habitat" when it lists species as threatened or endangered. Critical habitat is a specific geographic area(s) that contains features essential for the conservation of a threatened or endangered species and that may require special management and protection.

Designated critical habitat is absent from the project site and immediate vicinity. The nearest unit of critical habitat is located approximately 3.3 miles northeast of the project site at its closest point, and is designated for the protection of the succulent owl's-clover (*Castilleja campestris var. succulenta*). Critical habitat for the San Joaquin Valley orcutt grass (*Orcuttia inaequalis*) and vernal pool fairy shrimp (*Branchinecta lynchi*) is located in the same general area, approximately 3.5 miles northeast of the project site.

# 3.0 RELEVANT GOALS, POLICIES, AND LAWS

## 3.1 CALIFORNIA ENVIRONMENTAL QUALITY ACT

In California, any project carried out or approved by a public agency that will result in a direct or reasonably foreseeable indirect physical change in the environment must comply with CEQA. The purpose of CEQA is to ensure that a project's potential impacts on the environment are evaluated and methods for avoiding or reducing these impacts are considered before the project is allowed to move forward. A secondary aim of CEQA is to provide justification to the public for the approval of any projects involving significant impacts on the environment.

According to Section 15382 of the CEQA Guidelines, a significant effect on the environment means a "substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the project, including land, air, water, minerals, flora, fauna, ambient noise, and objects of historic or aesthetic interest." Although the lead agency may set its own CEQA significance thresholds, project impacts to biological resources are generally considered to be significant if they would meet any of the following criteria established in Appendix G of the CEQA Guidelines:

- Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by CDFW or USFWS.
- Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by CDFW or USFWS.
- Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.
- Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites.
- Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.
- Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

Furthermore, CEQA Guidelines Section 15065(a) requires the lead agency to make "mandatory findings of significance" if there is substantial evidence that a project may:

- Substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, or substantially reduce the number or restrict the range of an endangered, rare or threatened species.
- Achieve short-term environmental goals to the detriment of long-term environmental goals.
- Produce environmental effects that are individually limited but cumulatively considerable, meaning that the incremental effects of the project are significant when viewed in connection with the effects of past projects, other current projects, and probable future projects.

## 3.2 OTHER RELEVANT LAWS AND POLICIES

### 3.2.1 Fresno County and Clovis General Plans

Cities and counties adopt general plans to guide future development and to protect and/or enhance natural and cultural resources. In general, projects must be consistent with the goals and policies of these general plans. Because the proposed residential development will be annexed into the City of Clovis, it is assumed that it is subject to both the County of Fresno and City of Clovis general plans. The City of Clovis's general plan was adopted in 2014, and has a planning horizon extending through 2035. The County of Fresno's general plan was adopted in 2000, and has a planning horizon of 15 to 25 years.

The Open Space and Conservation Element of the Clovis General Plan includes goals concerning preservation of natural resources and protection of water quality. These goals are supported by numerous policies and implementation programs. Policies relevant to the project include: 1) encourage new development to incorporate on-site natural resources and low impact development techniques, 2) support the protection of biological resources through the conservation of high quality habitat, 3) encourage the use of native plant species and prohibit the use of invasive species, and 4) minimize the use of non-point source pollutants and storm water runoff.

The Open Space and Conservation Element of the Fresno County General Plan includes a number of goals, policies, and implementation programs concerning biological resources. Policies of

particular relevance to the project are summarized as follows: 1) the County shall support the "no-net-loss" wetlands policies of the USACE, USFWS, and CDFW, and shall require new development to fully mitigate the loss of regulated wetlands, 2) the County shall require new development to be designed in such a manner that pollutants and siltation do not significantly degrade the area, value, or function of wetlands, 3) the County shall require new developments to preserve and enhance native riparian habitat unless public safety concerns require removal of habitat, and shall require riparian protection zones around natural watercourses, 4) the County shall identify and conserve remaining upland habitat areas adjacent to wetland and riparian areas that are critically important to wildlife species associated with those wetland and riparian areas, 5) where practicable, the County shall support efforts to avoid the "net" loss of important wildlife habitat, and should preserve in a natural state those areas defined as habitats for rare and endangered animal and plant species, 6) if loss of important habitat for special status species or other valuable wildlife resources cannot be avoided, the County shall impose adequate mitigation, 7) the County shall require adequate buffer zones between construction activities and significant wildlife resources, 8) the County shall support the preservation of significant areas of natural vegetation, e.g. oak woodlands, riparian areas, and vernal pools, and 9) the County shall require that new developments preserve natural woodlands to the maximum extent possible.

### 3.2.2 Threatened and Endangered Species

In California, imperiled plants and animals may be afforded special legal protections under the California Endangered Species Act (CESA) and/or Federal Endangered Species Act (FESA). Species may be listed as "threatened" or "endangered" under one or both Acts, and/or as "rare" under CESA. Under both Acts, "endangered" means a species is in danger of extinction throughout all or a significant portion of its range, and "threatened" means a species is likely to become endangered within the foreseeable future. Under CESA, "rare" means a species may become endangered if their present environment worsens. Both Acts prohibit "take" of listed species, defined under CESA as "to hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture or kill" (California Fish and Game Code, Section 86), and more broadly defined under FESA to include "harm" (16 USC, Section 1532(19), 50 CFR, Section 17.3). The USFWS commonly interprets "take" to include the loss of habitat utilized by a listed species.

When state and federally listed species have the potential to be impacted by a project, the USFWS and CDFW must be included in the CEQA process. These agencies review the environmental document to determine the adequacy of its treatment of endangered species issues and to make project-specific recommendations for the protection of listed species. Projects that may result in the "take" of listed species must generally enter into consultation with the USFWS and/or CDFW pursuant to FESA and CESA, respectively. In some cases, incidental take authorization(s) from these agencies may be required before the project can be implemented.

### 3.2.3 Migratory Birds

The Federal Migratory Bird Treaty Act (FMBTA: 16 USC 703-712) prohibits killing, possessing, or trading in any bird species covered in one of four international conventions to which the United States is a party, except in accordance with regulations prescribed by the Secretary of the Interior. The name of the act is misleading, as it actually covers almost all birds native to the United States, even those that are non-migratory. The FMBTA encompasses whole birds, parts of birds, and bird nests and eggs.

Native birds are also protected under California state law. The California Fish and Game Code makes it unlawful to take or possess any non-game bird covered by the FMBTA (Section 3513), as well as any other native non-game bird (Section 3800), even if incidental to lawful activities.

### 3.2.4 Birds of Prey

Birds of prey are also protected in California under provisions of the State Fish and Game Code, Section 3503.5, 1992), which states that it is "unlawful to take, possess, or destroy any birds in the order *Falconiformes* or *Strigiformes* (birds of prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto." Construction disturbance during the breeding season could result in the incidental loss of fertile eggs or nestlings, or otherwise lead to nest abandonment. Disturbance that causes nest abandonment and/or loss of reproductive effort is considered "taking" by the CDFW.

### 3.2.5 Nesting Birds

In California, protection is afforded to the nests and eggs of all birds. California Fish and Game Code (Section 3503) states that it is "unlawful to take, possess, or needlessly destroy the nest or eggs of any bird except as otherwise provided by this code or any regulation adopted pursuant thereto." Breeding-season disturbance that causes nest abandonment and/or loss of reproductive effort is considered a form of "take" by the CDFW.

### 3.2.6 Habitat Conservation Plans and Natural Community Conservation Plans

Section 10 of the federal Endangered Species Act establishes a process by which non-federal projects can obtain authorization to incidentally take listed species, provided take is minimized and thoroughly mitigated. A Habitat Conservation Plan (HCP), developed by the project applicant in collaboration with the USFWS and/or NMFS, ensures that such minimization and mitigation will occur, and is a prerequisite to the issuance of a federal incidental take permit. Similarly, a Natural Community Conservation Plan (NCCP), developed by the project applicant in collaboration with CDFW, provides for the conservation of biodiversity within a project area, and permits limited incidental take of state-listed species.

### 3.2.7 Wetlands and Other Jurisdictional Waters

Section 404 of the federal Clean Water Act (CWA) regulates the discharge of dredged or fill material into "navigable waters" (33 U.S.C. §1344), defined in the CWA as "the waters of the United States, including the territorial seas" (33 U.S.C. §1362(7)). The CWA does not supply a definition for waters of the U.S., and that has been the subject of considerable debate since the CWA's passage in 1972. A variety of regulatory definitions have been promulgated by the two federal agencies responsible for implementing the CWA, the Environmental Protection Agency (EPA) and USACE. These definitions have been interpreted, and in some cases, invalidated, by federal courts.

Waters of the U.S. are presently defined by the EPA and USACE's joint 2023 Revised Definition of 'Waters of the U.S.' Rule (2023 WOTUS Rule), issued in January 2023 and amended in August 2023. Generally speaking, waters of the U.S. include:

- Waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide
- The territorial seas
- Interstate waters
- Impoundments of waters otherwise defined as waters of the United States under the definition
- Tributaries to other waters of the U.S. that are relatively permanent, standing or continuously flowing bodies of water
- Wetlands adjacent to other waters of the U.S. that have a continuous surface connection to those waters

The 2023 WOTUS Rule also defines a number of exclusions from the definition of waters of the U.S., many of which are longstanding exclusions from earlier regulatory regimes. These generally include:

- Waste treatment systems
- Prior converted cropland
- Ditches excavated wholly in and draining only dry land that do not carry a relatively permanent flow of water
- Certain artificial features, e.g. irrigation basins, swimming pools, borrow pits, and artificially irrigated areas
- Swales and erosional features characterized by low volume, infrequent, or short duration flow

All activities that involve the discharge of dredge or fill material into waters of the U.S. are subject to the permit requirements of the USACE. Such permits are typically issued on the condition that the applicant agrees to provide mitigation that result in no net loss of wetland functions or values.

Under the Porter-Cologne Water Quality Control Act of 1969, the State Water Resources Control Board (SWRCB) has regulatory authority to protect the water quality of all surface water and groundwater in the State of California. In practice, however, not all such waters are considered jurisdictional “waters of the State.” Broadly, waters of the State include all waters of the U.S., all natural wetlands, certain artificial wetlands, and various other features. Nine RWQCBs, each

corresponding to a different region of the state, regulate discharges of fill and pollutants into waters of the State through the issuance of various permits and orders. Discharges into waters of the State that are also waters of the U.S. require a Section 401 Water Quality Certification from the RWQCB as a prerequisite to obtaining a Section 404 Clean Water Act permit. Discharges into waters of the State that are not also waters of the U.S. require Waste Discharge Requirements (WDRs), or waivers of WDRs, from the RWQCB.

The SWRCB and RWQCBs also administer the federal National Pollution Discharge Elimination System (NPDES) program, which is concerned with the discharge of stormwater and other pollutants into water bodies. Projects that disturb one or more acres of soil must obtain coverage under the SWRCB's current NPDES Construction Stormwater General Permit. A prerequisite for permit coverage is the development of a Storm Water Pollution Prevention Plan (SWPPP) by a certified Qualified SWPPP Developer. Other types of pollutant discharges into waters of the U.S., such as wastewater, may require coverage under a different NPDES general permit, and in some cases an individual permit.

CDFW has jurisdiction over the bed and bank of natural drainages and lakes according to provisions of Section 1601 and 1602 of the California Fish and Game Code. Activities that may substantially modify such waters through the diversion or obstruction of their natural flow, change or use of any material from their bed or bank, or the deposition of debris require a Notification of Lake or Streambed Alteration. If CDFW determines that the activity may adversely affect fish and wildlife resources, a Lake or Streambed Alteration Agreement will be prepared. Such an agreement typically stipulates that certain measures will be implemented to protect the habitat values of the lake or drainage in question.

# 4.0 IMPACTS AND MITIGATIONS

The following discussions address the potential impacts to biological resources associated with future residential buildout of Tract 6375. For the purposes of these analyses, it is assumed that the full 59 acres will be developed.

## 4.1 POTENTIALLY SIGNIFICANT PROJECT IMPACTS/MITIGATION

### 4.1.1 Potential Project Impacts to Special Status Plants

**Potential Impacts.** Of the 16 special status plant species known from the project vicinity, one species, the Sanford's arrowhead (*Sagittaria sanfordii*), has some potential to occur on the project site. During LOA's 2023 survey, several Sanford's arrowhead populations were identified immediately adjacent to the project site in the Enterprise Canal, and a different member of the same genus, *S. montevidensis*, was noted in one of the site's ponded areas. If the Sanford's arrowhead were to colonize any of the site's ponded areas prior to residential buildout, individuals and populations of this species would be lost. Project impacts to these special status plant species are considered potentially significant under CEQA.

The remaining 15 special status plant species are considered absent from or unlikely to occur on the project site due to an absence of suitable habitat and/or soils, the site's being situated outside of the species' distribution, or a combination thereof (see Table 1). The project is not expected to adversely affect these species, either directly or indirectly, and impacts are considered less than significant under CEQA.

**Mitigation.** The following measures will be implemented to reduce the magnitude of potential project impacts to the Sanford's arrowhead.

> ***Mitigation Measure 4.1.1a.*** Prior to the start of construction, a qualified biologist will conduct protocol-level rare plant surveys following CDFW's 2018 *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities*, or most current agency guidance. Surveys will target all habitats of the project site that could potentially support the Sanford's arrowhead, and will be conducted when local populations of the Sanford's arrowhead are in bloom and readily identifiable.
>
> ***Mitigation Measure 4.1.1b.*** If Sanford's arrowhead populations are identified on site, project design will be modified, if at all feasible, to avoid the plants. A qualified biologist

will identify an appropriate buffer around the plants, and no developments or other project-related activities will be permitted within.

***Mitigation Measure 4.1.1c.*** If it is not feasible to avoid Sanford's arrowhead populations, the affected populations will be salvaged in accordance with a plan prepared by a qualified biologist that will include contingencies for an unsuccessful salvage effort. Salvage methods may include seed collection and dispersal, transplanting rootstock, and/or topsoil collection and redispersal, as appropriate. The relocation area(s) will be located in alternative on-site emergent wetland habitat to be established and maintained for this species, and protected through a deed restriction, conservation easement, or similar mechanism. Relocation areas will be monitored by a qualified biologist for a period of five years to ensure successful establishment.

Compliance with the above mitigation measures would reduce impacts to the Sanford's arrowhead to a less than significant level under CEQA.

### 4.1.2 Potential Project Impacts to Monarch Butterfly

**Potential Impacts.** The project site is located in an area where monarch butterflies (*Danaus plexippus*) are known to occur, and habitats of the site provide breeding, foraging, and roosting opportunities for this species. The potential for direct effects to monarchs is greatest during the spring and summer, when migrating monarchs may breed in the project vicinity. Monarch eggs, larvae, and pupae would be particularly vulnerable to construction-related mortality, as these life stages are relatively immobile and unable to leave their milkweed host plants. Monarch adults are volant and would presumably have the ability to avoid construction disturbance while foraging or roosting on site.

The project may also indirectly impact monarchs through the removal of breeding, foraging, and roosting habitat in the form of milkweed, nectar resources, and orchard trees, respectively. Loss of milkweed habitat has been cited as a major factor in monarch population declines (USFWS 2020). While any project-related removal of milkweed is likely to be minor, it would incrementally contribute to a habitat trend that is substantially affecting this species, and potential impacts associated with milkweed loss are therefore considered significant. The project is not expected to adversely affect monarchs through the loss of other plants that could be used for foraging by this species, or by loss of orchard trees. Following project-related vegetation removal, considerable alternative foraging and roosting habitat will remain available to monarchs, both on- and off-site.

**Mitigation.** The following measures will be implemented to reduce the magnitude of potential project impacts to the monarch butterfly.

> ***Mitigation Measure 4.1.2a (Milkweed Survey).*** Prior to the start of construction, a qualified biologist will survey all proposed work areas for milkweed plants. The survey will be conducted at a time of year when milkweed is readily identifiable. The objective of the survey will be to tally and map all milkweed plants that could potentially be impacted by project activities.
>
> ***Mitigation Measure 4.1.2b (Construction Timing).*** If feasible, any removal of milkweed plants required for residential buildout will take place entirely outside of the period in which monarchs are most likely to breed in the project vicinity, March 1-August 31.
>
> ***Mitigation Measure 4.1.2c (Preconstruction Surveys and Avoidance).*** If removal of milkweed plants cannot be avoided between March 1 and August 31, a qualified biologist will conduct pre-construction surveys for non-volant life stages of monarchs on those milkweed plants that will be removed, within 10 days prior to the start of construction. If any non-volant life stages are identified, then those plants will be avoided until it is confirmed by a qualified biologist that a monarch is no longer present.
>
> ***Mitigation Measure 4.1.2d (Compensatory Mitigation).*** Impacted milkweed plants will be replaced on site in accordance with a revegetation plan prepared by a qualified biologist. A minimum of 50 replacement plantings will be provided, or three times the number of milkweed plants identified at the time of the milkweed survey (see *Mitigation Measure 4.1.2a*), whichever is greater. Replacement plantings must be locally native; preferred species are narrowleaf milkweed (*A. fascicularis*) and showy milkweed (*A. speciosa*). The planting site(s) must be in area(s) that will not be mowed or treated with pesticides or herbicides, to be guaranteed via a deed restriction or similar protective mechanism. Revegetation areas will be monitored by a qualified biologist for a period of five years to ensure successful establishment.

Implementation of the above measures will reduce impacts to the monarch butterfly to a less than significant level under CEQA.

### 4.1.3 Potential Project Impacts to Nesting Swainson's Hawks

**Potential Impacts.** As noted in Table 1, Swainson's hawks (*Buteo swainsoni*) are occasionally sighted in the project vicinity (eBird 2024), and trees adjacent to the project site have some potential to support nesting by individuals of this California Threatened species. If Swainson's hawks are nesting near the site at the time of future residential buildout, individuals could be disturbed such that they would abandon their nests. Construction-related disturbance leading to Swainson's hawk nest abandonment is a potentially significant impact of the project.

Swainson's hawks would not be adversely affected by project-related loss of habitat. Residential buildout will eliminate approximately 40 acres of ruderal land that could potentially be used for foraging by this species, but is unlikely to represent an important part of any individual's foraging range given its disturbed nature and urban setting.

**Mitigation.** The following measures will be implemented for the protection of nesting Swainson's hawks.

> ***Mitigation Measure 4.1.3a (Construction Timing).*** If feasible, project activities will take place entirely outside of the Swainson's hawk nesting season, defined here as March 1 to September 15. If *Mitigation Measure 4.1.3a* is implemented, no further mitigation for this species is required.
>
> ***Mitigation Measure 4.1.3b (Nesting Surveys*).** If project activities must occur between March 1 and September 15, a qualified biologist will conduct nest surveys for Swainson's hawks on and within ¼ mile of the project site within the survey periods prescribed by *Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley* (SHTAC 2000). Three nest surveys will be conducted in each of two survey periods, with the survey periods defined as follows: Period I – January 1 to March 20, Period II – March 20 to April 5, Period III – April 5 to April 20, Period IV – April 21 to June 10, and Period V – June 10 to July 30. Surveys will take place in the two survey periods immediately prior to the anticipated start of construction activities during the nesting season, with the exception of Period III, when no surveys should take place per the SHTAC guidelines. The surveys will consist of inspecting all accessible, suitable trees of the survey area for the presence of nests and hawks.
>
> ***Mitigation Measure 4.1.3c (No-Disturbance Buffers*).** If active Swainson's hawk nests are detected during the surveys or observed incidentally, a minimum ¼-mile no-disturbance buffer will be delineated and maintained around each nest, to remain in place until the breeding season has ended or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or parental care for survival.
>
> ***Mitigation Measure 4.1.3c (CDFW Consultation*).** If an active Swainson's hawk nest is detected, and a ¼-mile no-disturbance buffer is not feasible, the project applicant will consult with CDFW to discuss how to implement the project and avoid take. If take cannot be avoided, take authorization will be obtained through the acquisition of a State Incidental Take Permit (ITP), pursuant to Fish and Game Code section 2081 subdivision (b).

Implementation of the above measures will reduce potential project impacts to nesting Swainson's hawks to a less than significant level under CEQA.

### 4.1.4 Potential Project Impacts to Other Nesting Birds and Raptors

**Potential Impacts.** The project site has the potential to be used for various nesting birds, and large trees adjacent to the site could support nesting by birds or raptors. If birds or raptors are nesting on or near the site at the time of future residential buildout, individual birds could be killed or disturbed such that they would abandon their nests. Construction-related mortality of native nesting birds and construction-related disturbance leading to nest abandonment are potentially significant impacts of the project and would constitute violations of the Migratory Bird Treaty Act and California Fish and Game Code.

**Mitigation.** The following measures will be implemented for the protection of nesting birds and raptors.

> ***Mitigation Measure 4.1.4a (Construction Timing).*** If feasible, project activities will take place entirely outside of the avian nesting season, defined here as February 1 to September 15. If *Mitigation Measure 4.1.4a* is implemented, no further mitigation for nesting birds or raptors is required.
>
> ***Mitigation Measure 4.1.4b (Preconstruction Surveys*).** If project activities must occur between February 1 and September 15, a qualified biologist will conduct surveys for active bird nests within 10 days prior to the start of work during this period. The survey area will encompass the site and accessible surrounding lands within 250 feet for nesting birds and 500 feet for nesting raptors.
>
> ***Mitigation Measure 4.1.4c (Behavioral Baseline*).** Should any active nests be discovered in or near the work area, a qualified biologist will conduct an additional survey to establish a behavioral baseline of these nests.
>
> ***Mitigation Measure 4.1.4d (Continuous Monitoring).*** If feasible, a qualified biologist will continuously monitor active nests during project activities to detect behavioral changes resulting from the project. If behavioral changes occur, the activities that appear to be causing the changes (as determined by the qualified biologist) will be discontinued. At the biologist's discretion, activities may be resumed (1) in a modified form, with lower levels of visual or sound disturbance, (2) following the implementation of measures designed to reduce perceived disturbance, e.g. visual buffers, and/or (3) at a later nesting stage, when the affected birds are less sensitive to disturbance.
>
> ***Mitigation Measure 4.1.4e (No-Disturbance Buffers).*** If continuous monitoring of active nests is not feasible, or if nesting birds have behavioral changes that persist following the implementation of one or more of the corrective actions identified above under *Mitigation Measure 4.1.4d,* a minimum no-disturbance buffer of 250 feet will be established around active bird nests and 500 feet around active raptor nests. These buffers will remain in place

until after the breeding season has ended or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or on-site parental care for survival. Variance from these no-disturbance buffers is possible when there is compelling biological or ecological reason to do so. A qualified biologist will advise and support any variance from these buffers.

Implementation of the above measures will reduce potential project impacts to nesting birds and raptors to a less than significant level under CEQA and facilitate compliance with state and federal laws protecting these species.

## 4.2 LESS THAN SIGNIFICANT PROJECT IMPACTS

### 4.2.1 Project Impacts to Special Status Animal Species Absent from or Unlikely to Occur on the Project Site

**Potential Impacts.** Twenty-two special status animal species have been documented in the general vicinity of the project site, or are known to occur regionally (Table 1). Of these, 16 are considered absent from or unlikely to occur on the site due to the absence of suitable habitat, the site's urban setting and other landscape factors, and/or the site's being situated outside of the species' known distribution. These comprise the Crotch bumblebee, valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*), vernal pool fairy shrimp (*Branchinecta lynchi*), California tiger salamander, western yellow-billed cuckoo (*Coccyzus americanus occidentalis*), least Bell's vireo (*Vireo bellii pusillus*), Fresno kangaroo rat (*Dipodomys nitratoides exilis*), San Joaquin kit fox (*Vulpes macrotis mutica*), hardhead (*Mylopharadon conocephalus*), western spadefoot (*Spea hammondii*), western pond turtle (*Actinemys marmorata*), northern California legless lizard (*Anniella pulchra*), coast horned lizard (*Phrynosoma blainvillii*), California glossy snake (*Arizona elegans occidentalis*), burrowing owl, and American badger (*Taxidea taxus*). Because these species have no appreciable potential to occur on site, they are not expected to be affected by the project, directly or indirectly. Project impacts are considered less than significant under CEQA.

**Mitigation.** Mitigation measures are not warranted.

### 4.2.2 Project Impacts to Special Status Animal Species that Would Use the Site for Foraging Only

**Potential Impacts.** Four special status animal species, the tricolored blackbird (*Agelaius tricolor*), pallid bat (*Antrozous pallidus*), spotted bat (*Euderma maculatum*), and western mastiff bat (*Eumops perotis* ssp. *californicus*), have the potential to forage on the site from time to time but would not utilize the site for breeding, roosting, or other activities in which they would be vulnerable to construction-related injury or mortality (see Table 1). Individuals of these species are unlikely to be injured or killed by construction activities because they are highly mobile while foraging and would be expected to simply avoid active work areas.

The project would not adversely affect any of these species through loss of foraging habitat. The site does not offer unique habitat for any of these species, nor is it likely to represent an important part of any individual foraging range, given its disturbed nature and urban setting. Similar and higher quality habitats are abundant in the project vicinity and elsewhere in the region. For these reasons, impacts to the tricolored blackbird, pallid bat, spotted bat, and western mastiff bat are considered less than significant under CEQA.

**Mitigation.** Mitigation is not warranted.

### 4.2.3 Project Impacts to Wildlife Movement Corridors

**Potential Impacts.** The project site does not contain or adjoin features likely to function as a wildlife movement corridor. No impacts to such corridors are anticipated.

### 4.2.4 Project Impacts to Sensitive Natural Communities and Critical Habitat

**Potential Impacts.** The project site does not contain or adjoin any sensitive natural communities or designated critical habitat. There will be no impact to such resources.

**Mitigation.** Mitigation is not warranted.

### 4.2.5 Project Impacts to Jurisdictional Waters

**Potential Impacts.** As discussed, the project site contains five areas of ponded water that appear to have resulted from unintentional irrigation. Based on LOA's observations in the field, some of these ponds may meet the technical criteria of a wetland. The USACE and CDFW are unlikely to assert jurisdiction over these features regardless of their wetland status. The features also do not appear to fit into any of the categories of artificial wetlands regulated by the RWQCB, in that they are not (1) used as compensatory mitigation for impacts to other waters, (2) identified in a water quality control plan, (3) a relatively permanent part of the natural landscape, even in the absence of ongoing operation and maintenance, or (4) greater than or equal to one acre in size (SWRCB 2021). For item number 3 in this list, even though some of the features appear to hold water each year and thus may be considered "relatively permanent," the fact that they are maintained through irrigation presumably disqualifies them as waters of the State.

It is assumed that the site's ponds are not jurisdictional. No other aquatic resources will be impacted by proposed residential buildout. The Enterprise Canal will be completely avoided by project activities, and has a raised levee at this location that inherently protects it against stormwater runoff and construction-related erosion. Moreover, it is assumed that a SWPPP will be developed and implemented and coverage obtained under the SWRCB's current Construction Stormwater General Permit, as is required for projects that disturb an acre or more of soil; these compliance steps will further prevent unforeseen impacts to the Enterprise Canal.

For these reasons, project impacts to jurisdictional waters are considered less than significant under CEQA.

**Mitigation.** Mitigation is not warranted.

### 4.2.6 Consistency with Local Policies and Ordinances

**Potential Impacts.** The project appears consistent with Clovis and Fresno County General Plan policies related to biological resources.

**Mitigation.** Mitigation measures are not warranted.

### 4.2.7 Consistency with Habitat Conservation Plans and Natural Community Conservation Plans

**Potential Impacts.** There are no known HCPs or NCCPs in effect for the project vicinity.

**Mitigation.** Mitigation measures are not warranted.

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# APPENDIX A: VASCULAR PLANT LIST

## APPENDIX A
## VASCULAR PLANTS OF THE PROJECT SITE

The plants species listed below were observed on the project site during LOA's July 12, 2023 and/or October 16, 2024 surveys. The wetland indicator status of each plant, derived from the USACE-administered National Wetland Plant List for the Arid West Region, has been shown following its common name if available. Please note that, as of the October 16, 2024 survey, the only trees remaining on site are almond and tree-of-heaven.

**OBL** - Obligate
**FACW** - Facultative Wetland
**FAC** - Facultative
**FACU** - Facultative Upland
**UPL** - Upland

| | | |
|---|---|---|
| **ALISMATACEAE** | | |
| *Sagittaria montevidensis* | Giant Arrowhead | OBL |
| **AMARANTHACEAE – Amaranth Family** | | |
| *Amaranthus albus* | Pigweed Amaranth | FACU |
| *Amaranthus palmeri* | Palmer's Amaranth | FACU |
| **ANACARDIACEAE – Cashew Family** | | |
| *Pistacia chinensis* | Chinese Pistache | |
| **APOCYNACEAE – Dogbane Family** | | |
| *Asclepias fascicularis* | Narrowleaf Milkweed | FAC |
| *Nerium oleander* | Oleander | UPL |
| **ARALIACEAE** | | |
| *Hedera canariensis* | Canary Ivy | |
| **ARECACEAE – Palm Family** | | |
| *Washingtonia robusta* | Mexican Fan Palm | FACW |
| **ASTERACEAE – Sunflower Family** | | |
| *Anthemis cotula* | Chamomile | FACU |
| *Centaurea solstitialis* | Yellow Starthistle | UPL |
| *Cirsium vulgare* | Bull Thistle | FACU |
| *Erigeron bonariensis* | Flax-leaved Horseweed | FACU |
| *Erigeron canadensis* | Canada Horseweed | FACU |
| *Laennecia coulteri* | Coulter's Horseweed | FAC |
| *Lactuca serriola* | Prickly Lettuce | FACU |
| *Taraxacum* sp. | Dandelion | |
| **BRASSICACEAE – Mustard Family** | | |
| *Hirschfeldia incana* | Mustard | UPL |
| **CHENOPODIACEAE – Goosefoot Family** | | |
| *Chenopodium* sp. | Goosefoot | |
| **CYPERACEAE –Umbrella Sedge Family** | | |
| *Carex* sp. | Sedge | |
| *Cyperus esculentus* | Nut Grass | FACW |

| | | |
|---|---|---|
| *Cyperus difformis* | Variable Flatsedge | OBL |
| **EUPHORBIACEAE – Spurge Family** | | |
| *Croton setiger* | Turkey Mullein | UPL |
| *Euphorbia maculata* | Spotted Spurge | UPL |
| *Euphorbia prostrata* | Prostrate Sandmat | FACU |
| *Ricinus communis* | Castor Bean | FACU |
| **FABACEAE – Legume Family** | | |
| *Acmispon americanus* | Spanish Clover | UPL |
| *Lotus corniculatus* | Bird's Foot Trefoil | FAC |
| *Trifolium repens* | White Clover | FACU |
| **FAGACEAE – Beech Family** | | |
| *Quercus agrifolia* | Coast Live Oak | UPL |
| *Quercus palustris* | Pin Oak | |
| **GERANIACEAE – Geranium Family** | | |
| *Erodium cicutarium* | Redstem Filaree | UPL |
| *Erodium moschatum* | Whitestem Filaree | UPL |
| **JUGLANDACEAE – Walnut Family** | | |
| *Juglans regia* | English Walnut | |
| **JUNCACAEAE – Rush Family** | | |
| *Juncus mexicanus* | Mexican Rush | FACW |
| **MALVACEAE—Mallow Family** | | |
| *Malva parviflora* | Cheeseweed | UPL |
| **MELICAEAE – Mahogany Family** | | |
| *Melia azedarach* | Chinaberry Tree | UPL |
| **MORACEAE – Mulberry Family** | | |
| *Morus* sp. | Mulberry | |
| **MYRTACEAE – Myrtle Family** | | |
| *Eucalyptus globulus* | Blue Gum | UPL |
| *Eucalyptus camaldulensis* | Red River Gum | FAC |
| **OLEACEAE – Olive Family** | | |
| *Ligustrum* sp. | Privet | |
| *Olea europaea* | European olive | |
| **PINACEAE – Pine Family** | | |
| *Pinus aleppo* | Aleppo Pine | |
| *Pinus* sp. | Unknown Pine | |
| **PLATANACEAE – Sycamore Family** | | |
| *Platanus orientalis* | Old World Sycamore | |
| **POACEAE – Grass Family** | | |
| *Avena fatua* | Wild Oats | UPL |
| *Bromus diandrus* | Ripgut Brome | UPL |
| *Bromus hordeaceus* | Soft Chess | FACU |
| *Cynodon dactylon* | Bermuda Grass | FAC |
| *Echinochloa colona* | Jungle Rice | FAC |
| *Echinochloa crus-galli* | Barnyard Grass | FACW |
| *Festuca myuros* | Rattail Sixweeks Grass | UPL |
| *Hordeum marinum* | Barley | FAC |

| | | |
|---|---|---|
| *Panicum capillare* | Witchgrass | FACU |
| *Setaria pumila* | Yellow Bristlegrass | FAC |
| *Sorghum halepense* | Johnsongrass | FACU |
| **PODOCARPACEAE – Yellow-wood Family** | | |
| *Podocarpus macrophyllus* | Yew Plum Pine | |
| **POLYGONACEAE – Smartweed Family** | | |
| *Polygonum aviculare* | Prostrate Knotweed | FAC |
| *Rumex crispus* | Curly Dock | FAC |
| **PORTULACACAE – Purslane Family** | | |
| *Portulaca oleracea* | Common Purslane | FAC |
| **ROSACEAE – Rose Family** | | |
| *Prunus dulcis* | Almond | UPL |
| *Prunus sp.* | Stone Fruit | |
| *Rosa* sp. | Cultivated Rose | |
| **RUBIACEAE – Madder Family** | | |
| *Galium* sp. | Bedstraw | |
| **SALICACEAE – Willow Family** | | |
| *Populus fremontii* | Fremont Cottonwood | UPL |
| **SIMAROUBACEAE – Tree-of-Heaven Family** | | |
| *Ailanthus altissima* | Tree-of-Heaven | FACU |
| **SOLANACEAE – Nightshade Family** | | |
| *Physalis acutifolia* | Sharp Leaf Groundcherry | UPL |
| **TYPHACEAE – Cattail Family** | | |
| *Typha latifolia* | Broadleaf Cattail | OBL |
| **ZYGOPHYLLACEAE – Puncture Vine Family** | | |
| *Tribulus terrestris* | Puncture Vine | UPL |

# APPENDIX B: TERRESTRIAL VERTEBRATE SPECIES THAT POTENTIALLY OCCUR ON THE PROJECT SITE

## APPENDIX B
## TERRESTRIAL VERTEBRATE SPECIES THAT POTENTIALLY OCCUR ON THE PROJECT SITE

The species listed below are those that may be expected to routinely and predictably use or pass through the project site during some or all of the year. An asterisk denotes a species observed on or immediately adjacent to the site during LOA's July 12, 2023 survey.

**CLASS: AMPHIBIA**
**ORDER: ANURA (Frogs and Toads)**
**FAMILY: BUFONIDAE (True Toads)**
*Western Toad (*Bufo boreas*)
**FAMILY: HYLIDAE (Treefrogs and Relatives)**
Pacific Tree Frog (*Pseudacris regilla*)
**FAMILY: RANIDAE (True Frogs)**
American Bullfrog (*Lithobates catesbeianus*)
**CLASS: REPTILIA**
**ORDER: SQUAMATA (Lizards and Snakes)**
**SUBORDER: SAURIA (Lizards)**
**FAMILY: PHRYNOSOMATIDAE**
Side-blotched Lizard (*Uta stansburiana*)
*Western Fence Lizard (*Sceloporus occidentalis*)
**FAMILY: TEIIDAE (Whiptails and relatives)**
Western Whiptail (*Cnemidophorus tigris*)
**SUBORDER: SERPENTES (Snakes)**
**FAMILY: COLUBRIDAE (Colubrids)**
Pacific Gopher Snake (*Pituophis catenifer catenifer*)
Common Kingsnake (*Lampropeltis californiae*)
**FAMILY: VIPERIDAE (Vipers)**
Western Rattlesnake (*Crotalus viridis*)

**CLASS: AVES**
**ORDER: CICONIIFORMES (Herons, Storks, Ibises and Relatives)**
**FAMILY: ARDEIDAE (Bitterns, Herons, and Egrets)**
Great Blue Heron (*Ardea herodi*as)
Great Egret (*Ardea alba*)
Snowy Egret (*Egretta thula*)
Cattle Egret (*Bubulcus ibis*)
**FAMILY: CATHARTIDAE (New World Vultures)**
Turkey Vulture (*Cathartes aura*)
**ORDER: FALCONIFORMES (Vultures, Hawks, and Falcons)**
**FAMILY: ACCIPITRIDAE (Hawks, Old World Vultures, and Harriers)**
Swainson's Hawk (*Buteo swainsoni*)
*Red-tailed Hawk (*Buteo jamaicensis*)
Red-shouldered Hawk (*Buteo lineatus*)
**FAMILY: FALCONIDAE (Caracaras and Falcons)**
American Kestrel (*Falco sparverius*)

**ORDER: GALLIFORMES (Megapodes, Currassows, Pheasants, and Relatives)**
**FAMILY: ODONTOPHORIDAE (New World Quails)**
California Quail (*Callipepla californica*)
**ORDER: GRUIFORMES (Cranes and Rails)**
**FAMILY: RALLIDAE (Rails, Gallinules, and Coots)**
American Coot (*Fulica americana*)
**ORDER: CHARADRIIFORMES (Shorebirds, Gulls, and relatives)**
**FAMILY: CHARADRIIDAE (Plovers and relatives)**
Killdeer (*Charadrius vociferus*)
**FAMILY: RECURVIROSTRIDAE (Stilts and Avocets)**
Black-necked Stilt (*Himantopus mexicanus*)
**FAMILY: SCOLOPACIDAE (Sandpipers and Allies)**
Greater Yellowlegs (*Tringa melanoleuca*)
Lesser Yellowlegs (*Tringa flavipes*)
Least Sandpiper (*Calidris minutilla*)
**ORDER: COLUMBIFORMES (Pigeons and Doves)**
**FAMILY: COLUMBIDAE (Pigeons and Doves)**
Rock Pigeon (*Columba livia*)
*Mourning Dove (*Zenaida macroura*)
*Eurasian Collared Dove (*Streptopelia decaocto*)
**ORDER: STRIGIFORMES (Owls)**
**FAMILY: TYTONIDAE (Barn Owls)**
Barn Owl (*Tyto alba*)
**FAMILY: STRIGIDAE (Typical Owls)**
Great Horned Owl (*Bubo virginianus*)
**ORDER: PICIFORMES (Woodpeckers and relatives)**
**FAMILY: PICIDAE (Woodpeckers)**
Northern Flicker (*Colaptes auratus*)
*Nuttall's Woodpecker (*Picoides nuttallii*)
**ORDER: APODIFORMES (Swifts and Hummingbirds)**
**FAMILY: TROCHILIDAE (Hummingbirds)**
Black-chinned Hummingbird (*Archilochus alexandri*)
*Anna's Hummingbird (*Calypte anna*)
**ORDER: PASSERIFORMES (Perching Birds)**
**FAMILY: TYRANNIDAE (Tyrant Flycatchers)**
*Black Phoebe (*Sayornis nigricans*)
Say's Phoebe (*Sayornis saya*)
*Western Kingbird (*Tyrannus verticalis*)
**FAMILY: CORVIDAE (Jays, Magpies, and Crows)**
*California Scrub Jay (*Aphelocoma coerulescens*)
American Crow (*Corvus brachyrhynchos*)
Common Raven (*Corvus corax*)
**FAMILY: ALAUDIDAE (Larks)**
Horned Lark (*Eremophila alpestris*)
**FAMILY: HIRUNDINIDAE (Swallows)**
Cliff Swallow (*Petrochelidon pyrrhonota*)

Barn Swallow (*Hirundo rustica*)
Northern Rough-winged Swallow (*Stelgidopteryx serripennis*)
**FAMILY: AEGITHALIDAE (Bushtits)**
*Bushtit (*Psaltriparus minimus*)
**FAMILY: TROGLODYTIDAE (Wrens)**
House Wren (*Troglodytes aedon*)
**FAMILY: REGULIDAE (Kinglets)**
Ruby-crowned Kinglet (*Regulus calendula*)
**FAMILY: TURDIDAE (Thrushes)**
Western Bluebird (*Sialia mexicana*)
American Robin (*Turdus migratorius*)
**FAMILY: MIMIDAE (Mockingbirds and Thrashers)**
*Northern Mockingbird (*Mimus polyglottos*)
**FAMILY: PARULIDAE (Wood Warblers and Relatives)**
Yellow-rumped Warbler (*Dendroica coronata*)
**FAMILY: STURNIDAE (Starlings and Allies)**
*European Starling (*Sturnus vulgaris*)
**FAMILY: MOTACILLIDAE (Wagtails and Pipits)**
American Pipit (*Anthus rubrescens*)
**FAMILY: EMBERIZIDAE (Sparrows)**
Savannah Sparrow (*Passerculus sandwichensis*)
White-crowned Sparrow (*Zonotrichia leucophrys*)
Golden-crowned Sparrow (*Zonotrichia atricapilla*)
*California Towhee (*Pipilo crissalis*)
**FAMILY: ICTERIDAE (Blackbirds, Orioles and Allies)**
Western Meadowlark (*Sturnella neglecta*)
Red-winged Blackbird (*Agelaius phoeniceus*)
Great-tailed Grackle (*Quiscalus mexicanus*)
Brewer's Blackbird (*Euphagus cyanocephalus*)
Brown-headed Cowbird (*Molothrus ater*)
Bullock's Oriole (*Icterus bullockii*)
**FAMILY: FRINGILLIDAE (Finches)**
*House Finch (*Carpodacus mexicanus*)
*Lesser Goldfinch (*Carduelis psaltria*)
**FAMILY: PASSERIDAE (Old World Sparrows)**
*House Sparrow (*Passer domesticus*)

**CLASS: MAMMALIA**
**ORDER: DIDELPHIMORPHIA (Marsupials)**
**FAMILY: DIDELPHIDAE (Opossums)**
Virginia Opossum (*Didelphis virginiana*)
**ORDER: INSECTIVORA (Shrews and Moles)**
**FAMILY: TALPIDAE (Moles)**
Broad-footed Mole (*Scapanus latimanus*)
**ORDER: CHIROPTERA (Bats)**
**FAMILY: VESPERTILIONIDAE (Vespertilionid Bats)**
Yuma Myotis (*Myotis yumanensis*)

California Myotis (*Myotis californicus*)
Western Pipistrelle (*Pipistrellus hesperus*)
Big Brown Bat (*Eptesicus fuscus*)
Pale Big-eared Bat (*Corynorhinus townsendii pallescens*)
**FAMILY: MOLOSSIDAE (Free-tailed Bat)**
Brazilian Free-tailed Bat (*Tadarida brasiliensis*)
**ORDER: LAGOMORPHA (Rabbits, Hares, and Pikas)**
**FAMILY: LEPORIDAE (Rabbits and Hares)**
Audubon's Cottontail (*Sylvilagus audubonii*)
Black-tailed Jackrabbit (*Lepus californicus*)
**ORDER: RODENTIA (Rodents)**
**FAMILY: SCIURIDAE (Squirrels, Chipmunks, and Marmots)**
*California Ground Squirrel (*Otospermophilus beecheyi*)
**FAMILY: GEOMYIDAE (Pocket Gophers)**
*Botta's Pocket Gopher (*Thomomys bottae*)
**FAMILY: MURIDAE (Mice, Rats and Voles)**
Western Harvest Mouse (*Reithrodontomys megalotis*)
Deer Mouse (*Peromyscus maniculatus*)
Norway Rat (*Rattus norvegicus*)
House Mouse (*Mus musculus*)
California Vole (*Microtus californicus*)
**FAMILY: HETEROMYIDAE (Kangaroo Rats)**
Heermann's Kangaroo Rat (*Dipodomys heermanni*)
**ORDER: CARNIVORA (Carnivores)**
**FAMILY: CANIDAE (Foxes, Wolves, and Relatives)**
Red Fox (*Vulpes vulpes*)
Coyote (*Canis latrans*)
Domestic Dog (*Canis familiaris*)
**FAMILY: PROCYONIDAE (Raccoons and Relatives)**
*Raccoon (*Procyon lotor*)
**FAMILY: MUSTELIDAE (Weasels and Relatives)**
*Striped Skunk (*Mephitis mephitis*)
**FAMILY: FELIDAE (Cats)**
*Feral Cat (*Felis cattus*)

## APPENDIX C: REPRESENTATIVE PHOTOS OF THE PROJECT SITE



**Photo 1 (above).** The site's remaining almond orchard, facing north along Minnewawa Avenue. Photo taken during 2023 survey. **Photo 2 (below).** Ruderal area associated with former residential site, facing south along Minnewawa Avenue. Photo taken during 2024 site visit.





**Photo 3 (above).** Disked fields and ruderal field margin. Photo taken during 2023 survey. **Photo 4 (below).** Location of the recently-removed almond orchard, facing southwest. Photo taken during 2024 site visit.





**Photo 5 (above).** Location of the recently-removed almond orchard, facing north toward off-site Enterprise Canal. Photo taken during 2024 survey. **Photo 6 (below).** Pond No. 1; two inches of standing water at time of 2023 survey.





**Photo 7 (above).** Pond No. 2; 4-6 inches of standing water at time of 2023 survey. **Photo 8 (below).** Juvenile western toad in Pond No. 2, one of many observed at this location during 2023 survey.





**Photo 9 (above).** Pond No. 3; contained open water and juvenile western toads at the time of the 2023 survey. **Photo 10 (below).** Pond No. 4; contained open water and various aquatic invertebrates at the time of the 2023 survey.





**Photo 11 (above).** Pond No. 5; contained open water and aquatic invertebrates at the time of the 2023 survey.

# Cultural Resource Study for the Clovis Tract 6375 Residential Development, City of Clovis, Fresno County, California

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November 2023

USGS Clovis, CA 7.5′ quadrangle, T12S, R21E, Sec. 20
58.9 Project Area; 53.9 acres surveyed
**Resources:** None

# MANAGEMENT SUMMARY

Applied EarthWorks, Inc. (Æ) conducted a cultural resource study to support Lennar Central Valley's 58.9-acre Tract 6375 Residential Development Project (Project) in the city of Clovis within Fresno County, California. The proposed Project is directly east of North Minnewawa Avenue between East Shepherd Avenue and Perrin Road.

The proposed development requires a permit issued by the City of Clovis, therefore the Project is subject to the California Environmental Quality Act (CEQA), which mandates that public agencies determine whether a proposed project will cause a significant change to the environment, including cultural resources. To assist the Lennar Central Valley in fulfilling their responsibility under CEQA, Æ conducted a cultural resource study to identify whether there are historical resources (i.e., cultural resources listed or eligible for listing in the California Register of Historical Resources [CRHR]) within the Project area.

To meet the requirements under CEQA, Æ conducted: (1) a records search at the Southern San Joaquin Valley Information Center (SSJVIC) of the California Historical Resources Information System (CHRIS); (2) desktop research to better understand the history of land use in the Project area; (3) a search of the Native American Heritage Commission's (NAHC) Sacred Lands File, and nongovernmental outreach to local tribes and individuals; and (4) an intensive pedestrian survey of the 58.9-acre Project area to identify archaeological and/or historical built environment cultural resources.

The SSJVIC records search identified no cultural resources within the Project area and only one cultural resource within the 0.25-mile search radius—the Enterprise Canal (P-10-005934/ CA-FRE-3564H)—which runs adjacent to the northeast border of the Project area. There have been four previous cultural resource investigations that overlap the Project area and one within the 0.25-mile search radius. A search of the NAHC's Sacred Lands File did not identify Native American cultural resources within or near the Project area and no specific information was gleaned from outreach with local tribal representatives.

Æ's intensive pedestrian survey of the Project area, conducted on August 25, 2023, covered 53.9 acres of the 58.9-acre Project area. The recent removal of a house and surrounding vegetation in the northwest corner of the Project area resulted in large piles of debris and shredded vegetation piles masking the ground surface. Æ archaeologists noted a concentration of historical glass fragments and ceramics near the rear of the former residence. Because the deposit was not in situ and likely associated with the removal of the house, it was noted but not formally recorded as a cultural resource.

Æ's inventory efforts found no historical resources within the Project area. However, if cultural resources are discovered during Project activities, all work should halt until a qualified archaeologist can assess the find. Additionally, if human remains are uncovered during construction, the Project operator shall immediately halt work within 50 feet of the find, contact the Fresno County Coroner to evaluate the remains, and follow the procedures and protocols set forth in CEQA Guidelines Section 15064.4(e)(1). If the remains are identified on the basis of archaeological context, age, cultural associations, or biological traits to be those of a Native

American, then the California Health and Safety Code 7050.5 and Public Resource Code 5097.98 require that the county coroner notify the NAHC within 24 hours of discovery. The NAHC will then identify the Most Likely Descendant, who will be afforded the opportunity to recommend treatment of the human remains following protocols in California Public Resources Code 5097.98.

Field notes and photographs for this Project are on file at Æ's office in Fresno, California. A copy of this report will be transmitted to the SSJVIC at California State University, Bakersfield, for inclusion in the CHRIS.

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# 1
# INTRODUCTION

Applied EarthWorks, Inc. (Æ) conducted a cultural resource study in support of Lennar Central Valley's proposed Tract 6375 Residential Development Project (Project) in the city of Clovis, Fresno County, California (Figure 1-1). The Project is directly east of North Minnewawa Avenue between East Shepherd Avenue and Perrin Road within Section 20 of Township 12 South, Range 21 East, as depicted on the U.S. Geological Survey (USGS) Clovis (1981), California 7.5-minute topographic quadrangle (Figures 1-2).

## 1.1 PROJECT DESCRIPTION

Lennar Central Valley proposes to construct 387 single-family lots on approximately 58.9 acres of vacant land north of East Shepherd Avenue, south of Perrin Road and between North Minnewawa Avenue and the Clovis Avenue alignment, in the city of Clovis (Figure 1-3). The proposed zoning for the project will be R-1-MD–Medium Density Residential. The property is currently within the County of Fresno and zoning is R-A, though it will be annexed into the City of Clovis. This single-family residential project will be within the City of Clovis (City) Heritage Grove Master Plan and will be subject to design development standards of the plan.

## 1.2 REGULATORY CONTEXT

The Project is subject to the California Environmental Quality Act (CEQA), with guidelines for implementation codified in the California Code of Regulations (CCR), Title 14, Chapter 3, Section 15000 et seq. Historical resources are considered part of the environment and are subject to review under CEQA. Per CEQA, the lead agency, in this case the City, is required to determine whether a project may have a significant effect on historical resources, and therefore cause a significant effect on the environment (Public Resources Code [PRC] Section 5024.1[b]). CEQA defines a substantial adverse change to a historical resource as the "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of a historical resource would be materially impaired" (14 CCR Section 15064.5[b][1]). Where substantial adverse change is unavoidable and the historical resource cannot be preserved in an undisturbed state, the lead agency shall require mitigation measures to minimize substantial adverse changes to the resource's significance (PRC Section 21083.2[c]). It is further stipulated that the "lead agency shall ensure that any adopted measures to mitigate or avoid significant adverse changes are fully enforceable through permit conditions, agreements, or other measures" (14 CCR Section 15064.5[b][4]; PRC Section 5020.1[q]).

For the purposes of this report, a cultural resource is defined as a prehistoric or historical archaeological site or a historical building, structure, or object. Consistent with Title 36, Code of Federal Regulations, Part 60.4 (36 CFR 60.4), the term "historical" applies to cultural resources that are 45 years old or older. The importance or significance of a cultural resource depends on whether it qualifies for inclusion in the California Register of Historical Resources (CRHR). Cultural resources determined eligible for listing in the CRHR are called "historical resources"




**Figure 1-1 Project vicinity in Fresno County, California.**

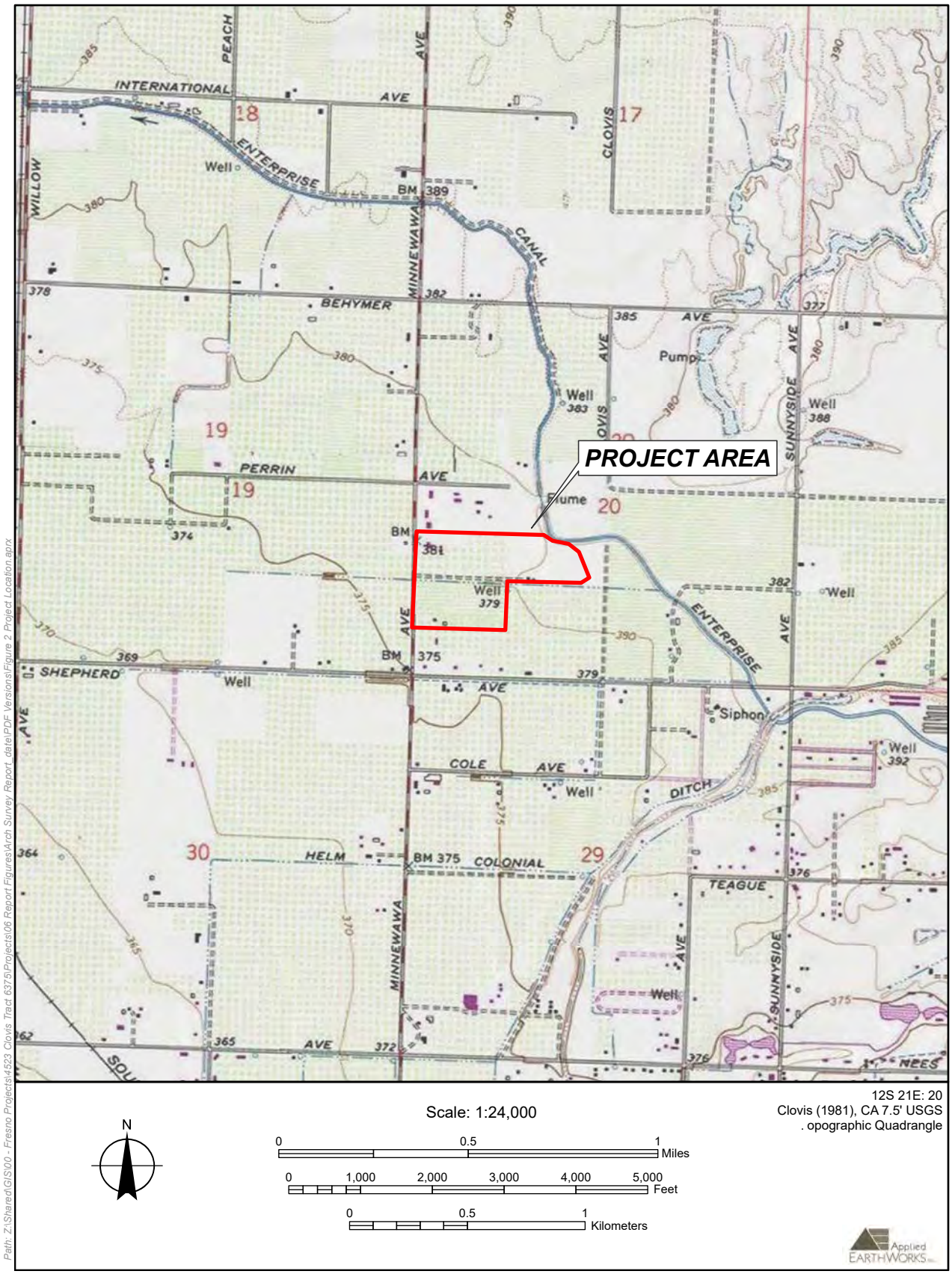


**Figure 1- Project` area on USGS Clovis 7.5-minute topographic quadrangle.**




**Figure 1- ` Aerial view of the Project area.**

(Title 14, Chapter 3, Article 5, Section 15064.5 of the CCR). The determination of eligibility is based on a set of significance criteria (14 CCR 15064.5).

## 1.3 PROJECT PERSONNEL

Æ Managing Principal Archaeologist Erin Enright (M.A. Registered Professional Archaeologist [RPA] 16575) served as principal investigator and provided quality assurance and quality control for the project. Æ Principal Archaeologist Anna Hoover (M.S., RPA 28576661) served as project manager overseeing the inventory efforts and technical reporting. Staff Archaeologist Gabriel Granado (B.A.) and Field Technician Charles Pansarosa (B.A.) conducted the pedestrian survey. This report was prepared by Staff Anthropologist Nicole Saenz (M.S.). Principal Archaeologist Emerita Mary Baloian (Ph.D., RPA 15189) reviewed the report for technical accuracy. Résumés for key personnel are provided in Appendix A.

## 1.4 REPORT ORGANIZATION

This document consists of six chapters. Following this introduction, Chapter 2 describes the environmental and cultural context of the Project area. Chapter 3 presents Æ's methods for the study including the records search, background research, Native American outreach, and pedestrian surveys, while Chapter 4 discusses the study results. Chapter 5 contains a summary and provides recommendations. A complete listing of references cited is in Chapter 6. Appendix A contains résumés of Project personnel. Appendix B presents results of the records search and Appendix C contains documentation of communication with the NAHC and local tribal representatives.

Field notes, maps, and a complete set of photographs from the current investigation are on file at Æ's office in Fresno, California. A copy of the final version of this report will be submitted to the SSJVIC of the CHRIS at California State University, Bakersfield.

# 2
# NATURAL AND CULTURAL SETTING

## 2.1 PHYSICAL ENVIRONMENT

The Project area lies on the eastern margin of the San Joaquin Valley near the base of the Sierra Nevada foothills. In general, the valley is bordered on the east by the Sierra Nevada, on the west by the Coast Ranges, and on the south by the Tehachapi Range. The north–south orientation of the Sierra Nevada greatly influences the general hydrology of the region by directing the flow of rivers and streams westward into the San Joaquin Valley.

The complex geology of the adjacent foothills and the Sierra Nevada is reflected in the primary and secondary soils in the valley. Primary soils are developed by weathering the underlying granitic parent material. Secondary soils are formed by a combination of eolian and alluvial forces transporting a variety of granitic and assorted metamorphic and metavolcanic materials from mountain streams (Weir 1956). Quaternary and recent alluvium covers most of the valley basin.

The natural vegetation of the San Joaquin Valley has been severely compromised as a result of farming and ranching. Originally, the area was covered with native annual and perennial grasses such as needlegrass (*Stipa* spp.), bluegrass (*Poa* spp.), and three awn (*Aristida divaricata)* commonly found in the Valley Grassland Community (Munz and Keck 1973). Prior to Euro-American colonization, the valley floor was occupied by a diverse population of resident and migratory mammals and birds, which along with fish and other aquatic species provided a rich resource base for aboriginal subsistence. Historical and modern land use has greatly reduced the size and number of native habitats, eliminating numerous indigenous species. Most commonly found in the study vicinity today are jackrabbits, ground squirrels, field mice, snakes, and frogs, along with jays, mourning doves, crows, and red-tailed hawks.

The San Joaquin Valley lies within the Mediterranean climate zone typified by hot, dry summers and cool, wet winters. Temperatures range from highs of 90–100°F in the summer months to lows of 40–50°F in the winter (Weir 1956), although temperatures exceeding 100°F in the summer and dropping below freezing in the winter are not uncommon. Annual precipitation averages 10 inches per year, with most of the rain falling between October and March. Thick "tule" fog is common in the valley during December and January.

The natural topography of the proposed development is flat at 400 feet above mean sea level. The natural watercourse closest to the Project area is Dry Creek, which flows directly southeast of the Project area.

## 2.2 PREHISTORY AND ARCHAEOLOGY

Archaeological evidence suggests that the valley's initial occupants settled mostly in lakeshore and streamside environments and used the foothills seasonally. Early ("Paleo Indian") sites are typified by fluted points, stemmed dart points, scrapers, and flaked stone crescents. The middle and late Holocene witnessed mobile hunters and gatherers. As compared with their predecessors,

Archaic groups utilized a broad resource base, including both large and small game and hard seeds. Manos, milling slabs, mortars, and pestles are common in Archaic assemblages, as are atlatl dart points. Favorable climatic conditions between 3,000 and 3,500 years ago fostered widespread settlement along the Sierran west slope. The late Holocene witnessed various technological and social changes, including the adoption of the bow and arrow, expansion of trade, increasing use of acorns, and improved food storage techniques. As populations grew, social relations became more complex. Economic stress and social instability became more pronounced during a period of xeric climates between circa A.D. 450 and 1250. Thereafter, new levels of population growth were achieved, resulting in part from movement of new Sierran groups. By circa A.D. 1600–1700, most groups claimed the territories that would identify them ethnographically. The Project lies in the territory of the Gashowu, a tribelet of the Foothill Yokuts (see Section 3.3).

A number of prehistoric sites have been identified in Gashowu territory (Price 1992). Located in the foothills northeast of Clovis, these sites are primarily either extensive midden deposits found along both small ephemeral drainages and larger permanent watercourses or multiple bedrock milling features, sometimes with numerous individual stations.

Investigations at CA-FRE-1671, which may have formed the core of the *Pohoniu* village community, yielded radiocarbon dates showing that Yokuts settlement of the area extended from A.D. 1300 well into the historic period. An earlier occupation phase at the site was dated between circa 700 B.C. and A.D. 300 but could not be linked directly to the Gashowu or any other Yokuts group (Moratto 1988).

At CA-FRE-64, investigations showed that the Yokuts may have occupied the area as early as A.D. 1100–1200, with continuing occupation to around A.D. 1600. An even earlier component lacked the data to attribute it to the Gashowu but suggested that the steatite industry in the area may have begun as early as A.D. 800 Wallace et al. (1989).

CA-FRE-1154 and -1155 are in the foothills east of the Project area. CA-FRE-1154, the Sharer Site, lies “along an abandoned oxbow bend associated with a channelized-stream” (Langenwalter et al. 1989). This site, interpreted as a seasonal procurement campsite, appears to have been used during a long temporal span from 850 B.C. to A.D. 1850. It consists of a midden ranging from 60 to 160 centimeters deep and a large bedrock boulder containing 76 mortars, cups, cupules, and slicks. Artifacts included ground and flaked stone tools, steatite bowl fragments, ornaments, crystals, daub, and ochre. Additionally, the remains of a juvenile burial were encountered.

CA-FRE-1155, the Harlan Site, contains a small but well-developed midden with thickness varying between 80 and 190 centimeters as well as five bedrock features. Artifacts similar to those from CA-FRE-1154 indicate that CA-FRE-1155 was used as a seasonal procurement site. It appears to have been sporadically occupied between 850 B.C. and A.D. 300, with intensive occupation from A.D. 300 to 1500 (Langenwalter et al. 1989).

Surveys east of the current Project area have shown that many small processing stations and temporary camps occur along seasonal channels near the lower foothills (Meighan and Dillon 1987), suggesting a pattern of widespread but relatively ephemeral use of the area during the late Holocene (McGuire 1992).

In the first half of the nineteenth century, the Gashowu population was decimated by disease, missionization, and military action. This led to a radical change in settlement: the surviving peoples abandoned the residential sites that they had occupied prehistorically and congregated at a small number of locations. Glass trade beads and other historic artifacts recovered from CA-FRE-687 and CA-FRE-1671 may be evidence of these postcontact settlements (Price 1992:32-33).

## 2.3 ETHNOGRAPHY

At the time of first contact with the Spanish missionaries, the Yokuts people collectively inhabited the San Joaquin Valley as well as the eastern foothills of the Sierra Nevada from the Calaveras River southward to the Kern River. The Yokuts language belongs to the broader Penutian family, which subsumes a relatively diverse assemblage of languages that also includes Miwok, Costanoan, Maiduan, and Wintuan (Silverstein 1978). Compared to other Penutian languages, however, Yokuts shows considerable internal linguistic homogeneity, especially given its relatively wide geographic distribution. Dialects differed minimally and were mutually intelligible, at least among speakers of contiguous groups. This relative lack of linguistic differentiation suggests that ancestors of the Yokuts entered California after the arrival and subsequent radiation of the more linguistically diverse Penutian groups such as the Miwok and Costanoan (Moratto 1984:554).

Linguists and ethnographers have traditionally divided the Yokuts into Northern Valley, Southern Valley, and Foothill categories based primarily on linguistic similarities and differences. Yet such broad groupings were not mirrored in the larger structure of Yokuts society. Instead, the Yokuts were organized into relatively small autonomous tribes or tribelets, which maintained a fluid territory containing multiple semipermanent settlements.

Gayton (1945, 1948), Kroeber (1976), Spier (1978), and Wallace (1978, 1987) have produced primary source material on Yokuts ethnography. Secondary works on this subject include those authored by Langenwalter et al. (1989), Moratto (1984, 1988), and Wallace et al. (1989). The following discussion about Yokuts lifeways is drawn from these sources.

The Gashowu, a tribelet of the Kings River Group of the Foothill Division, occupied the drainages of Big Dry Creek and Little Dry Creek. Two major settlements are attributed to the Gashowu: *Pohoniu*, below Letcher on Big Dry Creek, and *Yokau*, on Little Dry Creek in Auberry Valley (Kroeber 1976:481,plate 47). These villages appear to have been central year-round settlements that were occupied more densely in the winter. At these locations, the Gashowu built conical structures 15–20 feet tall over excavated pits, each with a central rock-lined hearth. Other structures probably included acorn granaries, sweat houses, roofed ramadas, sunshades, and large communal houses. During the summer, residents moved with extended families or family groups to base camps within a day's walk of the central village. These stations served as summer villages and temporary storage places for food until it was transferred to the main village. Summer villages contained smaller structures and are most commonly recognized archaeologically by midden deposits and multiple bedrock milling features. Seed-gathering forays in the spring or summer expanded the Gashowu range to the lowlands of present-day Clovis and Fresno.

Acorns were a Gashowu staple, with additional nutrition culled from other nuts and seeds, berries, fruit, and game. These dietary items as well as tool stone and a variety of other resources were gathered at summer camps. Procurement loci survive today as scatters of lithic artifacts and as bedrock milling stations where plants and seeds were processed. In addition to these features, artifacts used to process procured resources (such as mortars, pestles, and manos) and the remains of resources gathered (such as bone and acorn shell) also may be found.

Steatite is available locally, and items made from this material (including cooking bowls, beads, and ornaments) are often found at Yokuts sites. Steatite goods also were traded with neighbors for obsidian, pine nuts, shell beads and ornaments, and other exotic commodities.

## 2.4 HISTORIC CONTEXT

### 2.4.1 Early Settlement in the Clovis Area (1853–1874)

The first Euro-American settlements in the greater Clovis area occurred not within the swampy "hog wallows" that once dotted the landscape of the present city limits but in the grassy plains around Dry Creek where the stream flows down from the foothills into the valley (Clough and Secrest 1984). A small outpost was established at the current intersection of Shepherd and Thompson avenues in 1853 and later became a stop along the Stockton to Los Angeles stage route (Smith 1991). For many years the lonely station, which eventually became known as Collins Corner, stood by itself with no other buildings in sight. After the Civil War, sheepherders, many from the southern United States, began to trickle into the area.

During the 1860s, homesteaders came to the valley to graze their herds or flocks in the pastures around the San Joaquin River and its drainages. The local cattle industry continued to grow until at least 1870, when, according to Vandor (1919), it reached its peak. There were, however, some bumps along the way. The erratic climate patterns of the 1860s—a decade that experienced alternating periods of severe flooding and drought—had considerable impact on the make up of the Central Valley's agrarian base. In particular, the 2-year-long drought that followed the great flood of 1862 decimated remaining old Spanish cattle that had escaped the deluge (Byron 1951). In response, cattlemen restocked their herds with other varieties, including longhorns that had been driven from Texas Vandor (1919). For their part, shepherds adopted the annual cycle of Old World pastoralists: during the summer months they drove their flocks into the Sierra Nevada high country to conserve the lowland grasses for fall and winter grazing. The floods and droughts similarly wreaked havoc on production of agricultural goods, causing dramatic swings in commodity values. In the wake of the 1864 drought, crop failures depleted the supply of grain as the price of wheat on the San Francisco Market soared to $5.00 per cental (100 pounds) in March 1865 (Elliott 1883). By comparison, the price rarely breeched the $3.00 mark during the entire 1870s.

Along with the climate, political factors had a major hand in shaping the economic landscape. Although the 1874 enactment of the "no fence" laws did not necessarily deal a death blow to valley ranching, the statute greatly curtailed the influence and importance of this industry. The law had both operational and monetary repercussions:

> The "no fence" law obligated the stock owner to herd his cattle and sheep, whereas before the stock roamed at will and was not assembled except for the annual rodeo. He

> was also made responsible for damage done by his beasts. The farmer was not required to fence his holdings, though... he occasionally did so (Vandor 1919:163).

Without the entire extent of the San Joaquin Valley at his disposal and burdened by the continual task of containing his herds and flocks, the rancher found himself increasingly marginalized in the developing valley economy.

### 2.4.2 Initial Development of Agriculture in the Fresno-Clovis Area (1875–1900)

In addition to pro-agriculture legislation and the arrival of the Southern Pacific Railroad in 1872, the development of irrigation systems greatly contributed to the growth of agriculture in Fresno County. Built in the early and mid-1870s, the first major water conveyance systems in the Fresno-Clovis area included the canals of the Fresno Canal and Irrigation Company (FCIC), the Kings River and Fresno Canal Company (KRFCC), and the Enterprise Canal Company (ECC). These same systems, which use the waters of the Kings River, remain essential parts of the area's agricultural industry today.

In local history, Moses Church—a former sheepherder from Napa County—is considered the chief developer of water conveyance in Fresno County. As early as 1870, Church began acquiring water rights along the Kings River; in February 1871, he and two business associates incorporated the FCIC (Elliott 1882; Willison 1980). His first objective was to deliver appropriated water to the farm of A. Y. Easterby, located in the present-day Sunnyside neighborhood of Fresno (Vandor 1919). In 1872, the company completed construction of the first main head gate on the Kings River that allowed 2,000 feet of water to be diverted into the irrigation system (Elliott 1882). The Fresno Canal was the FCIC's primary channel. Although it runs a relatively short 12 miles, the Fresno Canal is the source of numerous large branch canals that still irrigate the fields south, west, and east of the Fresno-Clovis metropolitan area.

The KRFCC, also established in 1871, intended to build a similar system, although the project was not completed until 1873 when L.A. Gould purchased interest in the company (Clough and Secrest 1984; Willison 1980). By August of the same year, Gould's farm was receiving irrigation water from the KRFCC Gould Canal, which taps the Kings River about 1.5 miles above the head gate of the Fresno Canal. The Gould Canal and its primary branch, the Helm Canal, irrigated the former agricultural lands in what is today the heart of the Fresno-Clovis metropolitan area.

While local sources are not specific about the incorporation of the ECC or the dates of its major conveyance, the Enterprise Canal, circumstantial evidence suggests that construction began sometime after 1875 and continued episodically until the early twentieth century when the canal appears to have reached it present-day length of 36.5 miles. According to Willison's (1980) account, the KRFCC agreed to supply water to the ECC following the completion of the Gould Canal in 1873. This agreement was the basis for the eventual creation of the Enterprise Canal. Although the Enterprise Canal is not represented on an 1875 map of the county, construction may have begun shortly after (Willison 1980). Moreover, Hall's (1885) serial maps depicting irrigation in Fresno County as well as later county atlases suggest that the canal was built in stages. Whereas the first 15 miles of the Enterprise Canal (or "Enterprise Ditch") as well as its head gate on the Gould Canal are shown and labeled on the Centerville and Kingsburg Sheet of the series, the lower reaches of the canal do not appear on the Fresno Sheet. Taken at face value,

Hall's (1885) maps indicate that in 1885 the Enterprise Canal terminated at Frolic Creek (present-day Dog Creek), southeast of the Project area. By the time of the 1891 Fresno County atlas, the canal had been lengthened another 9.5 miles through the Clovis area (just east of the Project area) to its northernmost extent (in Section 18 of Township 12 South, Range 21 East); however, the canal's existing southwesterly leg through what is today north Fresno had not been built yet (Thompson 1891).

Whatever the specific date(s) of the canal's construction, the ECC's dependence on the KRFCC and its Gould Canal clearly proved to be its undoing. In 1875, the KRFCC won a court battle with the FCIC that left KRFCC's water rights intact (Willison 1980:77-83). Ten years later, however, the companies faced-off again, but this time the FCIC succeeded in enjoining the KRFCC by drawing water from the Kings River (Mead 1901:277; Willison 1980:84). Without access to water from the river, the KRFCC and ECC were forced to sell their canals to the FCIC. The court decision thus left the FCIC in control of all three canal systems.

Under the ownership of the FCIC, the Enterprise Canal continued to irrigate the farmlands north and east of the Fresno-Clovis area. It gave rise to several secondary canals along its route, including such Clovis-area branches as the Maupin Ditch, the Jefferson Canal, the Clovis Ditch, the Teague Ditch, and Helm Colonial Ditch as well as numerous unnamed laterals (Willison 1980). As early as 1900, the canal and its branches irrigated about 15,000 acres. By 1913, the lower portion of the canal appears to have been completed, bringing irrigation water to the area historically known as Forkner's Fig Gardens (Progressive Map Service 1913:19). The Enterprise Canal, along with the rest of the FCIC's system, was acquired by the Fresno Irrigation District in 1920 (Willison 1980).

For Church and other land promoters, the intended effect of irrigation was to increase the value of their properties so that they could be subdivided and sold to newly arriving homesteaders at a hefty profit. While this primary purpose was certainly achieved, the advent of intensive irrigation additionally led to a shift in both the types of crops grown and the size of a typical farm. Grain farming generally requires substantial acreage, but as irrigation water became more readily available, individual farmers realized that premium crops like grapes, citrus, and tree fruit could be profitably grown on lots as small as 20 acres.

Vandor's history includes a commentary from (probably Charles) Nordoff, who describes how, with irrigation, bigger is not necessarily better.

> Big ranches there are yet but they are hazardous ventures, and the fact is that in the big valley the twenty, forty and eighty-acre farmers brought the lasting and real agricultural prosperity. There, where wheat was once the big and only crop, the man with less than 320 acres classed himself as a humble small farmer. Slowly but gradually the conviction forced itself that eighty acres with water on a good location was a little too much, forty a liberal plenty with which to make a fair start in life, and twenty just enough for one man on which to make a comfortable living for self and family and have something over with industry and health for the proverbial rainy day. Wonders have been accomplished with ten acres by men who were not overambitious, not overburdened with money and hesitated not to combine brain and brawn in the labor in the field. Intelligent twenty-acre men are laying up what eastern farmers would consider a fortune... (Vandor 1919:261).

Much like the "no fence" laws, the 1887 Wright Act, which provides for the creation of irrigation districts, is also seen as an important step in solidifying the interests of agriculture. In practice, it took some years before newly formed districts could gain the necessary legal and financial traction for operation, and these public cooperatives did not begin replacing private irrigation companies until the early twentieth century. At its passage, the Wright Act was, nevertheless, another legislative expression of the growing need for appropriated water. Another important development in the late nineteenth century was construction of the San Francisco and San Joaquin Valley Railroad in 1896, which provided Fresno with another rail line. Before then, farmers had complained about the Southern Pacific Railroad's "ruinous" rates and were continually looking for alternative ways to ship their products to the Bay Area. This second railroad was acquired by the Atchison, Topeka, and Santa Fe Railway around 1900.

Agricultural growth in the San Joaquin Valley generally was accompanied by consistent population growth and urbanization, and with the rise in residential, commercial, and infrastructural development came an increase in demand for building materials. The one-man milling operations of the gold rush era had given way to late nineteenth-century lumber companies with the financial and technological means to harvest vast stands of timber in the nearby Sierra Nevada. It was primarily in this context that the town of Clovis arose.

Clovis originated in 1891 as a stop along the San Joaquin Valley Railroad, which extended from Fresno to the aspiring community of Pollasky (formerly called Hamptonville and later renamed Friant), located on the south bank of the San Joaquin River (Clough and Secrest 1984). Although Pollasky never fully materialized and the railroad was eventually sold off to the Southern Pacific Railroad, the new transportation link had opened the area northeast of Fresno for settlement and other ventures. Shortly afterward, the Fresno Flume and Irrigation Company, a combination lumber and irrigation venture, located its sawmill on a 60-acre parcel at the current site of Clark Intermediate School and the Clovis Rodeo Grounds. The mill was the end point of a 45-mile-long wooden flume from Shaver Lake. By its second year of operation in 1895, between 300 and 500 employees worked at the mill (Clough and Secrest 1984; Johnston 1997).

### 2.4.3 Diversification and Water Issues (1900–1950)

The trend toward smaller farms continued well into the new century. Between 1900 and 1920, 45,000 new farms were established in California, of which about 85 percent were less than 50 acres (Hall 1986). Yet whether a farm is small or large, the decision of which crop(s) to grow from year to year has historically been a speculative one for valley farmers. Given the decentralized nature of the industry, the market for a particular product was capable of unpredictable and dramatic changes. Oversupply of the previous year's crop and the prospect of low prices have often compelled growers to look for other, more profitable alternatives. Out of this instability, many new fruit and vegetable varieties have been introduced to the valley.

The steady growth of the San Joaquin Valley's agricultural base and its reliance on irrigation were beginning to erode the state's water supply. In the period between 1909 and 1919, newly irrigated lands were placed under production at a rate of 155,000 acres per year (Hall 1986). Established in 1920, the Fresno Irrigation District acquired the aging conveyance system of the FCIC, and immediately set out to revamp and add to the existing canals and structures (Willison 1980). Technological improvements to electric water pump technology allowed wells to extend

even deeper into the aquifer, and by the mid-1920s the proliferation of wells had caused the water table to drop to alarmingly low levels. Among the most threatened were farmers who relied solely on wells for irrigation water. Along with a falling water table, California's water issues included reducing the danger of flooding along the major rivers, providing for more dependable navigation on the Sacramento River, and improving the water quality in the East Bay area (Jackson 1977).

The solution was the Central Valley Project (CVP), a statewide multicomponent water conveyance system to control and redistribute the tremendous supply of water flowing from the Sierra Nevada. The CVP, which began at the state level, became part of the New Deal project in the mid-1930s because of the massive financing required for the project. Partially due to labor shortages created by World War II, the entire system was not completed until the early 1950s. The Friant-Kern Canal, an original component of the CVP, flows about 5.5 miles east of the Project area.

In many ways, the Dry Creek drainage was a microcosm of the water issues facing the state during the 1920s and 1930s. Winding southwest from the foothills, Dry Creek disappears into a natural sink near the Old Fig Garden area in north-central Fresno. The natural flow from the creek raises the underground water table, which has been an important source of well irrigation water. Since the earliest days of Fresno, however, the annual flooding of the waterway caused traffic hazards, material damage, and even loss of life (Wilson 1932).

### 2.4.4 Modern Water Management (1950–Present)

Beginning in the mid-twentieth century, water management methods became more diverse and presently involve the storage of runoff in reservoirs for hydroelectric power and flood control and maintenance of underground water tables for such uses as irrigation and drinking water. As part of this larger process, the Dry Creek Project has sought to control the stream's natural runoff by channeling the water into reservoirs (Fresno Bee 1948). Since beginning operation in 1948, the Dry Creek Project has expanded its scope to prevent flooding while managing the groundwater level (Clovis Unified School District 1984; Fresno Metropolitan Flood Control District 2004).

When it reached fruition in the 1950s, the CVP sparked a new wave of agricultural growth by providing an ample supply of federally subsidized water across the valley floor. The Friant-Kern Canal flows through the Dry Creek District and its primary function is to convey irrigation water to the counties of the southern San Joaquin Valley. Nevertheless, water from the channel does not pass through the greater Fresno area completely untouched; along with the City of Fresno, the Garfield Irrigation District and Harlan Ranch established the right to divert water from the Friant-Kern Canal (Clovis Unified School District 1984).

# 3
# METHODS

This chapter describes methods used to complete the cultural resource study of the Project area. This includes a records search to identify previous resources and studies within and adjacent to the Project area, background research, a search of the NAHC Sacred Lands File and contact with Native Americans who may have knowledge about the area, and an intensive pedestrian survey.

## 3.1 RECORDS SEARCH

At Æ's request, the SSJVIC of the CHRIS at California State University, Bakersfield, performed a records search on June 31, 2023, to identify previously recorded resources and prior surveys within the Project area and surrounding 0.25-mile search radius. SSJVIC staff consulted cultural resource location and survey base maps, reports of previous investigations, and cultural resource records (Appendix B).

## 3.2 BACKGROUND RESEARCH

Prior to conducting a pedestrian archaeological survey, Æ conducted background research to identify areas within the Project area where extant historic-aged buildings, structures, or objects might be present, or where archaeological deposits might exist. Desktop and online library research focused on historical maps, aerial images, atlases, and photographs. Æ reviewed and compiled information from various sources including:

- General Land Office (GLO) maps (https://glorecords.blm.gov/default.aspx; 1856);
- HistoricAerials.com administered by NETRonline topographic maps (https://www.historicaerials.com/viewer; T1922, T1923, T1946, T1955, T1965, T1974, T1975, T1982, T1995, T2012, T2015, T2018, and T2021);
- Fresno County Property Atlases, accessed through the Map and Aerial Photograph Collections by California State University, Fresno (https://guides.library.fresnostate.edu/c.php?g=288931&p=1928720); and
- HistoricAerials.com administered by NETRonline (1957, 1962, 1972, 1984, 1998, 2002, 2005, 2009, 2010, 2012, 2014, 2016, 2018, and 2020).

The results of Æ's background research is discussed in Section 4.2.

## 3.3 NATIVE AMERICAN OUTREACH

Pursuant to California PRC Section 5097.9, state and local agencies cooperate with and assist the NAHC in its efforts to preserve and protect locations of sacred or special cultural and spiritual significance to Native Americans. On June 6, 2023, Æ contacted the NAHC to request a search of its Sacred Lands File to identify Native American resources in the Project area and obtain the names and contact information for individuals knowledgeable of such resources.

The NAHC responded on August 17, 2023, with its findings and attached a list of Native American tribes and individuals culturally affiliated with the Project area. On September 14, 2023, Æ mailed a letter to each of the contacts identified by the NAHC. The letter summarized the Project and requested information about known cultural resources within the Project area and surrounding region. Æ telephoned each contact on October 19, 2023 to ensure they received the letter and solicit information. Outreach with the Native American tribes and individuals is standard best practices to complete a cultural resource study and is not part of formal government-to-government consultation under Assembly Bill (AB) 52. Æ's record of tribal outreach is included in Appendix C.

## 3.4 PEDESTRIAN SURVEY

On August 25, 2023, Æ Staff Archaeologist Gabriel Granado and Field Technician Charles Pansarosa performed an intensive pedestrian survey of the Project area utilizing interval transects spaced 10 meters apart. Æ archaeologists collected locational information and documented survey coverage with an Arrow 100 GNSS and ArcGIS Field Maps and took representative photographs of the Project area, varying ground visibility, and other conditions. Methods and observations were recorded on digital Survey123 Field Record forms. All field records and photographs are archived at Æ's office in Fresno, California.

# 4
# FINDINGS

This chapter provides results of the SSJVIC records search, Æ's background research, the NAHC's search of the Sacred Lands File and Native American outreach, and describes the pedestrian survey, including observations of field conditions and findings within the Project area.

## 4.1 RECORDS SEARCH

On July 31, 2023, the SSJVIC responded to Æ's records search request (Records Search File No. 23-288). In their response, they identified one previously recorded cultural resource within the 0.25-mile records search radius and no cultural resources within the Project area. In addition, the records search identified four previous cultural resource investigations within the Project area and one previous investigation in the 0.25-mile search radius.

### 4.1.1 Previously Recorded Resources

The records search identified no previously recorded resources within the Project area, and only one resource, the Enterprise Canal (P-10-005934) within the 0.25-mile records search radius (Appendix B). As discussed in Section 2.4.2, the Enterprise Canal, was constructed in the mid-to-late 1870s to provide bulk irrigation water to the greater Clovis and North Fresno areas. The entire canal is 36.5 miles long.

### 4.1.2 Previous Studies in the Project Area

There have been four studies previously conducted within the Project area and one previous study in the 0.25-mile radius (Table 4-1; Appendix B). The entirety of the Project area has been previously surveyed, portions of which were surveyed most recently in 2018. All other previous studies were conducted more than 10 years ago.

**Table 4-1**
**Previous Investigations in the Project area and Surrounding 0.25-Mile Radius**

| CHRIS Report No. | Author(s) | Year | Title |
|---|---|---|---|
| **Within the Project Area** | | | |
| FR-01219 | Bissonnette, L.D. | 1993 | *Fresno Metropolitan Flood Control District Drainage Area "BY" Facilities* |
| FR-02203 | Varner, D.M. | 2006 | *A Cultural Resource Study of the Battlin Brooks Property, Fresno County, California* |
| FR-02289 | Nettles, W.M. and Baloian, R. | 2006 | *Cultural Resources Reconnaissance Survey of the City of Clovis Northwest Urban Center Specific Plan Area, Fresno County, California* |
| FR-03067 | Stanley, W., Baloian, M., and Baloian, R. | 2018 | *Cultural Resource Inventory and Evaluation for the Tract 6200 Development in the City of Clovis, Fresno County, California* |
| **Within the 0.25-Mile Radius** | | | |
| FR-02062 | Thal, S. | 2004 | *Request for SHPO Review of FCC Undertaking (Shepherd/CA-1202A)* |

## 4.2 BACKGROUND RESEARCH

Æ's review of historical topographic maps and aerial photographs revealed moderate development in the area over the last 100 years. An 1856 map from the GLO depicts Big Dry Creek running southeast of the Project area (Figure 4-1). Big Dry Creek was present on the 1923 topographic map, but by the 1947 map had been replaced with "Colonial Ditch." The 1856 GLO shows "Road from Stockton to Kings River" and "Old Road" on either side of the Project area. There were no remnants of these roads on the 1923 topographic map; all roads depicted reflect their current state. Three houses had been built in the Project area by 1891, according to the Fresno County Property Atlas. Only one of these houses, designated to H. Griffin on the 1891 Property Atlas, was still present on the 1923 topographic map (Thompson 1891). This house appeared extant on arial photographs dating to 2012 but was no longer present on the 2014 aerial photograph.




**Figure 4-1 1856 GLO map showing transport routes and Big Dry Creek.**

The Project area and vicinity was used primarily for agricultural purposes up to about 1984. A singular house was present in the northwest portion of the Project area prior to 1957. This single-family home was rebuilt in 1968. Large, isolated buildings began appearing in the surrounding area in 1998, followed by housing developments east of Sunnyside Avenue between 1984 and 1998 and south of Shephard Avenue between 2005 and 2009. A significant portion of the neighboring area remains agricultural land.

## 4.3 NATIVE AMERICAN OUTREACH

On August 17, 2023, the NAHC stated that its search of the Sacred Lands File was negative for the presence of cultural resources in the Project area. The NAHC also supplied a list of individuals to be contacted for information regarding locations of sacred or special sites of cultural or spiritual significance in the Project area.

On September 14, 2023, Æ sent a letter describing the Project and its location to:

- Chairperson Elizabeth Kipp of Big Sandy Rancheria of Western Mono Indians;
- Tribal Administrator Tom Zizzo of Big Sandy Rancheria of Western Mono Indians;
- Vice Chairperson Joel Marvin of Big Sandy Rancheria of Western Mono Indians;
- Jared Aldern of Cold Springs Rancheria of Mono Indians;
- Chairperson Carol Bill of Cold Springs Rancheria of Mono Indians;
- Chairperson Robert Ledger of Dumna Wo-Wah Tribal Government;
- Chairperson Ron Goode of North Fork Mono Tribe;
- Tribal Secretary Anna Phipps of North Fork Mono Tribe;
- Council Member and Archaeological Director Jesse Valdez of North Fork Mono Tribe;
- Timothy Perez of North Valley Yokuts Tribe;
- Chairperson Katherine Perez of North Valley Yokuts Tribe;
- Tribal Administrator Michael Wynn of Picayune Rancheria of the Chukchansi Indians;
- Tribal Historic Preservation Officer Heather Airey of the Picayune Rancheria of the Chukchansi Indians;
- Chairperson Janet Bill of the Picayune Rancheria of the Chukchansi Indians;
- Cultural Resource Director Bob Pennell of Table Mountain Rancheria;
- Chairperson Brenda Lavell of Table Mountain Rancheria;
- Chairperson David Alvarez of the Traditional Choinumni Tribe;
- Chairperson Neil Peyron of the Tule River Indian Tribe;
- Environmental Department Kerri Vera of the Tule River Indian Tribe;
- Tribal Archaeologist Joey Garfield of the Tule River Indian Tribe; and
- Chairperson Kenneth Woodrow of the Wuksachi Indian Tribe/Eshom Valley Band.

Æ also distributed these letters via email on September 13, 2023 and followed up with all tribes by telephone on October 19, 2023. To date, Æ has received six responses from their outreach:

- Big Sandy Rancheria of Mono Indians requested to be informed of any discoveries.
- The North Fork Mono Tribe requested that work crews remain cognizant of the fact that there are several sites known through oral history in the area that have not yet been located.
- Table Mountain Rancheria requested a copy of the cultural resources report and a meeting to discuss the project; this communication is being conducted by Lennar Central Valley.
- Picayune Rancheria of the Chukchansi Indians, Traditional Choinumni Tribe, and Tule River Indian Tribe all declined interest in the project.

A log detailing the outreach efforts and responses is provided in Appendix C. Æ did not facilitate government-to-government consultation on behalf of the City.

## 4.4 PEDESTRIAN SURVEY

An intensive archaeological pedestrian survey was conducted on August 23, 2023, encompassing 53.9 acres of the 58.9-acre Project area (Figure 4-2), or 91.5 percent. Æ field staff was unable to survey the remaining 5 acres in the northwest corner of the Project area. This area had been recently disturbed as a result of removing the residence at 9328 N. Minnewawa Avenue and large spoil piles of debris and soil remained on the ground surface (Figure 4-3). Heavy equipment and piles of masticated vegetation associated with vegetation removal efforts were also present (Figure 4-4). The Project area is bordered to the west by North Minnewawa Avenue, starting approximately 0.1 mile north of East Shepard Avenue and continuing 0.2 miles north. The southern border of the Project area is formed by the fence of the Windsor-Heritage Grove subdivision, while the northeastern border abuts the south bank of the Enterprise Canal. The Project's eastern border lies just west of the North Clovis Avenue alignment and the Enterprise Canal. Ground visibility averaged 70 percent across the Project area, though some areas were limited by leaf litter, almond trees, and grasses. Approximately two-thirds of the Project area is currently covered by almond orchards affording fair visibility of the ground surface (Figure 4-5).

Æ field staff identified a single, large concentration of historic-era glass fragments (Figure 4-6) in the vicinity of the recent demolition of the 1960s home in the northwest corner of the Project area at 9328 N. Minnewawa Avenue. These fragments were a variety of colors, including green, blue, cobalt, opaque white, amethyst, and clear. A single bottle neck with hand-applied cork closure was observed, along with several blue mason jar bases. The glass fragments appear to be associated with the removal of the structure and not an in situ historical deposit. Thus, the deposit is noted in this report but was not formally recorded as a cultural resource.

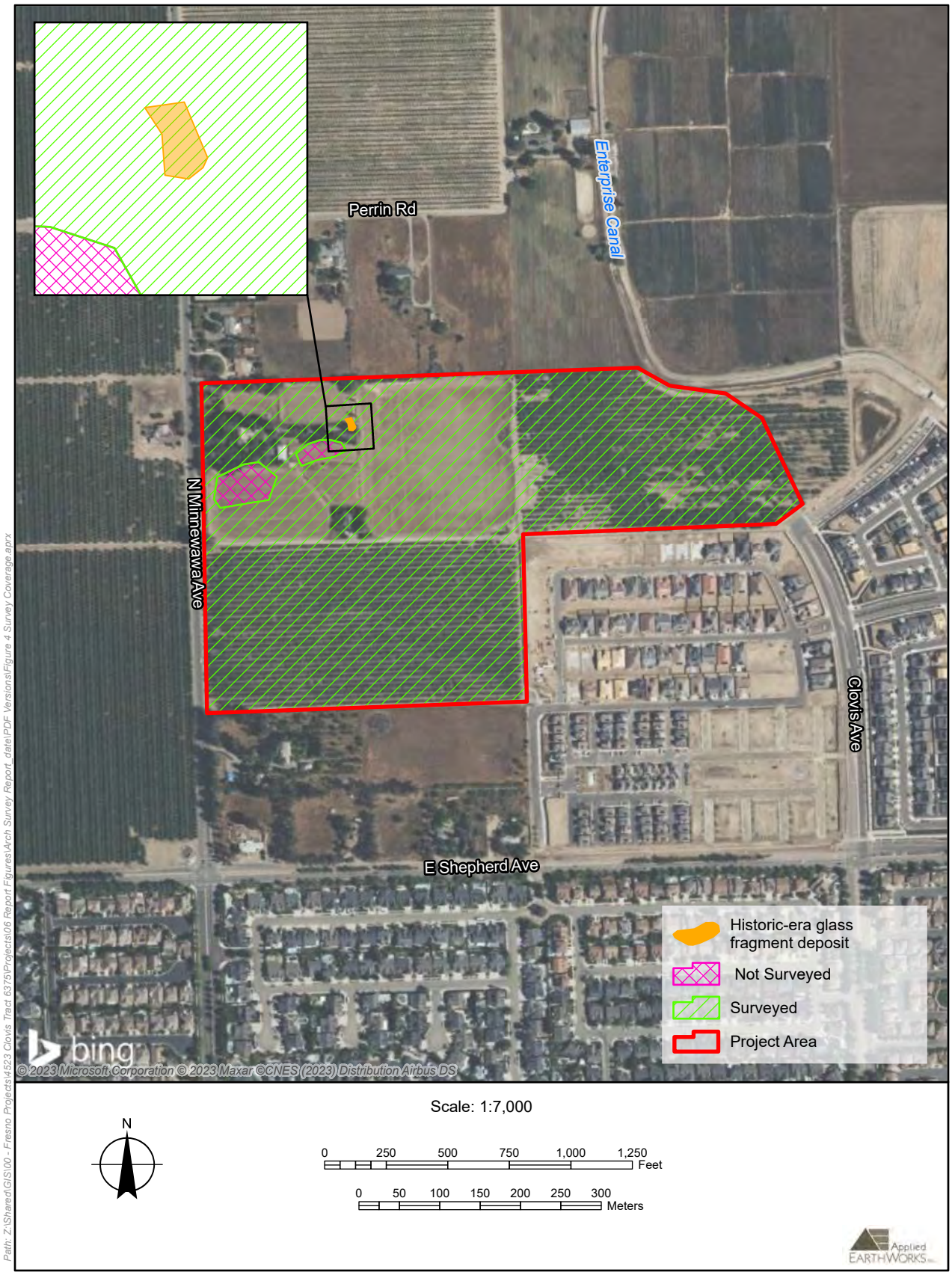


**Figure 4-. Survey coverage and findings within the Project area.**



**Figure 4-3 Recent ground disturbance associated with demolition and debris clearing, facing east.**



**Figure 4-4 Large spoil piles covering ground surface, facing east.**



**Figure 4-5 Overview of the eastern almond orchard, facing south.**



**Figure 4-6 Sample of glass fragments found in the debris associated with the house removal.**

# 5
# CONCLUSIONS AND RECOMMENDATIONS

Æ provided cultural resource services for the Lennar Central Valley proposed Tract 6375 Residential Development Project in Fresno County, California. The Project proposes to construct 387 single-family lots on approximately 58.9 acres on vacant land north of East Shepherd Avenue, between North Minnewawa Avenue and the Clovis Avenue alignment in the city of Clovis. The proposed Project is within the City of Clovis Heritage Grove Master Plan and will be subject to design development standards of the plan.

Æ conducted a cultural resource study of the Project area to determine if archaeological or historical built environment cultural resources are present within the Project area. Accordingly, Æ performed background research, obtained a records search from the SSJVIC of the CHRIS, requested a search of the NAHC Sacred Lands File, contacted local tribal representatives, and performed an intensive pedestrian survey of the Project area.

The SSJVIC records search identified no previously recorded cultural resources within the Project area and one previously recorded cultural resource within the 0.25-mile records search radius. In addition, the records search reported four previous cultural resource investigations within the Project area and one previous investigation in the 0.25-mile search radius. A search of the NAHC's Sacred Lands File did not identify Native American cultural resources within or near the Project area and no specific information was gleaned from outreach with local tribal representatives. No cultural resource were identified in the Project area as a result of Æ's inventory efforts.

## 5.1 RECOMMENDATIONS

This study concludes that there are no historical resources within the Project area. Based on the results of this cultural resource study, Æ recommends the following management practices be adopted for the proposed Project.

### 5.1.1 Inadvertent Discovery of Archaeological Resources

If unknown prehistoric or historic-era cultural resources are encountered during Project activities, all ground-disturbing activities within 50 feet of the find shall cease until a qualified archaeologist can evaluate the significance of the resource and recommend appropriate treatment measures. If necessary, per CEQA Guidelines Section 15126.4(b)(3)(A), project redesign and preservation in place shall be the preferred means to avoid impacts to significant cultural resources (i.e., historical resources). Consistent with CEQA Guidelines Section 15126.4(b)(3)(C), if it is demonstrated that a historical resource cannot be avoided, the qualified archaeologist shall develop mitigation practices in consultation with the City, which may include data recovery or other appropriate measures. The City also shall consult with interested Native American representatives in determining appropriate mitigation for unearthed cultural resources if the resources are prehistoric or Native American in nature. If preservation in place is not possible and additional studies or data recovery mitigation is necessary, the qualified archaeologist shall prepare a report documenting these studies and/or additional mitigation of the

resource. A copy of the report shall be provided to the City and to the SSJVIC. Construction can recommence based on the direction of the qualified archaeologist and with concurrence from the City.

### 5.1.2 Inadvertent Discovery of Human Remains

Æ advises that in the event human remains are uncovered during Project activities, the Fresno County Coroner is to be notified to evaluate the remains, and follow the procedures and protocols set forth in CEQA Guidelines Section 15064.4 (e)(1). If the remains are identified to be those of a Native American, California Health and Safety Code 7050.5 requires that the county coroner notify the NAHC within 24 hours of discovery. The NAHC will then identify the Most Likely Descendant, who will be afforded the opportunity to recommend means for treatment of the human remains following protocols in California PRC 5097.98.

# 6
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# APPENDIX A

# Personnel Qualifications

Applied EARTHWORKS Inc.

# ERIN ENRIGHT

**Vice President/Principal Archaeologist/Project Manager**

## Areas of Expertise

- Cultural resource management
- Project management
- Archaeological field work/ Supervision
- GIS analysis and desktop site assessments
- Faunal analysis
- Prehistory and history of California and the Southwest

## Years of Experience

- 22

## Education

M.A., Anthropology and Applied Archaeology, Eastern New Mexico University, Portales, 2008

B.A., Classical and Near Eastern Archaeology, Bryn Mawr College, Pennsylvania, 2000

## Registrations/Certifications

- Register of Professional Archaeologists 16575 (2009)
- OSHA 40-hour HAZWOPER (2019)

## Permits/Licensure

- Principal Investigator, California BLM Statewide Cultural Resources Use Permit CA-21-21

## Professional Affiliations

- Society for American Archaeology
- Society for California Archaeology

## Professional Experience

| | |
|---|---|
| 2021– | Vice President/Managing Principal/Principal Archaeologist, Applied EarthWorks, Inc., San Luis Obispo and Fresno, California |
| 2019–2021 | Managing Principal/Principal Archaeologist, Applied EarthWorks, Inc., San Luis Obispo, California |
| 2014–2018 | Senior Archaeologist/Project Manager, Applied EarthWorks, Inc., San Luis Obispo, California |
| 2008–2014 | Associate Archaeologist/Faunal Analyst, Applied EarthWorks, Inc., Lompoc, California |
| 2004–2008 | Faunal Analyst/Student Supervisor/ Educational Outreach, Blackwater Draw Archaeological Site and Museum, Eastern New Mexico University, Portales |
| 2001–2004 | Staff Archaeologist, Cultural Resource Management Services, Paso Robles, California |
| 2000 | Field Archaeologist, Princeton Expedition, Polis Chrysochous, Cyprus |
| 1999 | Archaeological Field School, Anathica Field School, Petras, Crete, Greece |

## Technical Qualifications

Ms. Enright is an experienced professional archaeologist, principal investigator, project manager, and field supervisor/director who has managed projects throughout California and the Southwest. She has participated at all levels within the cultural resource management industry with projects ranging from survey and site recording; testing and data recovery; National Register eligibly excavations; buried site testing (backhoe trenching); development of monitoring plans; database creation and maintenance; curation management; GIS; technical report production; and compliance assistance for NHPA and CEQA projects. Ms. Enright has developed close relationships with tribal groups and individuals throughout the Central Coast and Central Valley. She has played a critical role in providing consultation support between agencies and Native American groups for AB 52, CEQA, and Section 106. Additionally, she has experience managing large on-call contracts and complicated cultural resource management efforts with complex regulatory requirements. Several of these efforts have been in support of energy projects. Ms. Enright has authored or co-authored more than 70 technical reports and other NHPA, NEPA, and CEQA compliance documents, and presented research at state and national archaeological meetings.

Applied EARTHWORKS Inc.

# ANNA HOOVER

**Principal Archaeologist**

## Areas of Expertise

- Cultural resources management
- Prehistoric archaeology of southern California
- Indigenous archaeology and Native American/descendant community coordination
- Federal, state, local environmental laws and regulations
- Training, capacity building
- Traditional Cultural Property and Landscape analysis

## Years of Experience

- 24

## Education

M.S., Anthropology, focus Archaeology, 2003, University of California, Riverside

B.S., Anthropology, 2000, University of California, Riverside

B.A., Linguistics, 2000, University of California, Riverside

A.A., English, 1996, Long Beach City College

## Registrations/Certifications

- Registered Professional Archaeologist 28576661 (current)
- Cultural Consultant, Riverside County #171 (current)

## Permits/Licensure

- Field Director, California BLM Statewide Cultural Resources Use Permit CA-21-21

## Professional Associations

- Society of California Archaeology

## Professional Experience

| | |
|---|---|
| 2023– | Principal Archaeologist, Applied EarthWorks, Inc. |
| 2020–2022 | Senior Archaeologist, Applied EarthWorks, Inc. |
| 2017–2023 | Senior Ethnoarchaeologist, Cultural Geographics Consulting |
| 2007–2017 | Deputy Tribal Historic Preservation Officer, Pechanga Band of Luiseño Mission Indians |
| 2001–2015 | Archaeological Assistant, San Bernardino County Coroner |
| 2002–2007 | Senior Archaeologist, L&L Environmental, Inc. |

## Technical Qualifications

Ms. Hoover has more than 24 years of experience in archaeological, cultural, and tribal resource management in southern California, Alta and Baja California, and Yucatan, Mexico. Ms. Hoover has collaborated with governmental agencies, environmental consultants, and indigenous communities to develop sustainable and practical applications for the identification and preservation of archaeological and tribal cultural resources, including landscapes and large, geographical features. As a capable Project Manager, she has coordinated dozens of CRM projects during all phases of development, including managing logistics and communications with various clients, lead agencies, Tribal communities, and project staff. Ms. Hoover is the designated archaeologist of record for three Native American Tribal Historic Preservation Offices (THPOs) in southern California.

Ms. Hoover has authored, co-authored, reviewed, and contributed to hundreds of California Environmental Quality Act (CEQA), Section 106 of the National Historic Preservation Act (NHPA), and National Environmental Policy Act (NEPA) technical reports; Programmatic, Memoranda, and Master Agreements; THPO development applications and associated tribal ordinances and historic preservation guidance; ethnographic studies and National Register of Historic Places eligibility forms; and other compliance and mitigation documents.

Ms. Hoover has presented collaborative projects, personal research, cultural resources education, and environmental regulation guidance trainings to a wide variety of audiences, including topics such as AB 52, SB 18 and CEQA guidance, cultural and tribal consultation best practices, and Tribal Monitoring Program trainings. She has contributed to CalTHPO organizational committees, participated in development of California and Federal archaeological and tribal consultation policies, and contributed to a published book on Tribal GIS applications.

Applied EARTHWORKS Inc.

# MARY CLARK BALOIAN

**Principal Archaeologist**

## Areas of Expertise

- Cultural resource management
- Prehistoric archaeology
- Project management

## Years of Experience

- 30

## Education

Ph.D., Anthropology, Southern Methodist University, 2003

M.A., Anthropology, Southern Methodist University, 1995

B.A., Anthropology, University of California, Davis, 1989

## Registrations/Certifications

- Registered Professional Archaeologist 15189

## Permits/Licensure

- Principal Investigator, California BLM Statewide Cultural Resources Use Permit CA-18-22

## Professional Affiliations

- Society for American Archaeology
- Society for California Archaeology

## Professional Experience

| | |
|---|---|
| 2021–2023 | Principal Archaeologist, subconsultant for Applied EarthWorks, Inc., Fresno, California |
| 2000–2020 | President (2015–2020), Managing Principal (2015–2020), Regional Manager (2012–2014), Assistant Division Manager (2010–2011), Principal Archaeologist/Project Manager (2016–present), Senior Archaeologist/Project Manager (2000–2015), Applied EarthWorks, Inc., Fresno, California |
| 1998–2001 | Adjunct Faculty Member, Fresno City College, Fresno, California |
| 1995–1996 | Staff Archaeologist, Applied EarthWorks, Inc., Fresno, California |
| 1994–1995 | Staff Archaeologist, INFOTEC Research, Inc., Fresno, California |
| 1992–1994 | Teaching Assistant, Southern Methodist University, Dallas, Texas |
| 1989–1991 | Archaeological Project Leader, California Department of Transportation, Sacramento |

## Technical Qualifications

Dr. Clark Baloian has been involved in archaeology in California and the western United States since 1987. Her areas of expertise include the prehistory of the San Joaquin Valley, Sierra Nevada, Great Basin, central California coast, and the Iron Age of West Africa. Dr. Baloian has served as Principal Investigator/Project Manager, Field Supervisor, Crew Chief, or Field Technician for projects throughout California, Oregon, Nevada, New Mexico, Texas, Hawaii, and West Africa. Her experience in cultural resource management includes research design, data acquisition, laboratory analysis, and preparation of technical reports and compliance documents; she also has completed the Advisory Council on Historic Preservation course in National Historic Preservation Act (NHPA) Section 106 compliance policies and procedures. Her analytic skills include lithic and ceramic analyses as well as settlement pattern studies and spatial analysis, which were the foci of her doctoral research. As a Principal Archaeologist and subconsultant for Applied EarthWorks, Dr. Baloian provides quality assurance, high-level technical review, CEQA and Section 106 oversight, and overall professional guidance for project work, as needed.

# NICOLE SAENZ

**Staff Anthropologist**

## Areas of Expertise

- Forensic anthropology
- Human osteology
- Faunal analysis/zooarchaeology
- Project administration

## Years of Experience

- 6

## Education

M.S., Forensic Anthropology, Boston University Chobanian & Avedisian School of Medicine, 2023

B.A., Anthropology, University of California, Santa Cruz, 2012

## Professional Experience

| | |
|---|---|
| 2023– | Staff Anthropologist, Applied EarthWorks, Inc. |
| 2022– | Forensic Anthropology Consultant and Peer Reviewer, Puerto Rico Institute of Forensic Sciences |
| 2022–2023 | Field Technician, Applied EarthWorks, Inc. |
| 2008–2012 | Zooarchaeology Preparations and Curation Intern, University of California, Santa Cruz |

## Technical Qualifications

Ms. Saenz is a Staff Anthropologist at Applied EarthWorks, Inc. She received her Bachelor of Arts degree in Anthropology from the University of California Santa Cruz and her Master of Science degree in Forensic Anthropology from the Boston University Chobanian & Avedisian School of Medicine. In addition, Ms. Saenz has completed internships in zooarchaeological preparation and curation, thermally altered scene analysis and remains recovery, and currently serves as a forensic anthropological consultant and peer reviewer for the Puerto Rico Institute of Forensic Sciences. Ms. Saenz's professional responsibilities include project administration, osteological assessments, outreach in accordance with the Native American Heritage Council, pre-field project preparations, writing technical reports, completing California Department of Parks and Recreation 523-series forms, and assisting with project proposals.

# APPENDIX B

# Records Search Results

*Archaeological site locations are exempt from the California Public Records Act, as specified in Government Code 6254.10, and from the Freedom of Information Act (Exemption 3), under the legal authority of both the NHPA (PL 89-665, as amended, Section 304[a]) and the Archaeological Resources Protection Act (PL 96-95, Section 9[a]).

California Historical Resources Information System



Fresno
Kern
Kings
Madera
Tulare

**Southern San Joaquin Valley**
California State University, Bak
Mail Stop: 72 DOB
9001 Stockdale Highway
Bakersfield, California 93311-1022
(661) 654-2289
E-mail: ssjvic@csub.edu
Website: www.csub.edu/ssjvic

7/31/2023

Milo Honsberger
Applied EarthWorks, Inc.
1391 W. Shaw Ave.
Fresno, CA 93711

Re: Clovis Tract 6375
Records Search File No.: 23-288

The Southern San Joaquin Valley Information Center received your record search request for the project area referenced above, located on the Clovis & Friant USGS 7.5' quads. The following reflects the results of the records search for the project area and the 0.25 mile radius:

As indicated on the data request form, the locations of resources and reports are provided in the following format: ☐ custom GIS maps ☒ GIS data

| | |
|---|---|
| Resources within project area: | None |
| Resources within 0.25 mile radius: | P-10-005934 |
| Reports within project area: | FR-01219, 02203, 02289, 03067 |
| Reports within 0.25 mile radius: | FR-02062 |

| | | | |
|---|---|---|---|
| **Resource Database Printout (list):** | ☒ enclosed | ☐ not requested | ☐ nothing listed |
| **Resource Database Printout (details):** | ☒ enclosed | ☐ not requested | ☐ nothing listed |
| **Resource Digital Database Records:** | ☒ enclosed | ☐ not requested | ☐ nothing listed |
| **Report Database Printout (list):** | ☒ enclosed | ☐ not requested | ☐ nothing listed |
| **Report Database Printout (details):** | ☒ enclosed | ☐ not requested | ☐ nothing listed |
| **Report Digital Database Records:** | ☒ enclosed | ☐ not requested | ☐ nothing listed |
| **Resource Record Copies:** | ☒ enclosed | ☐ not requested | ☐ nothing listed |
| **Report Copies:** | ☒ enclosed | ☐ not requested | ☐ nothing listed |
| **OHP Built Environment Resources Directory:** | ☐ enclosed | ☒ not requested | ☐ nothing listed |
| **Archaeological Determinations of Eligibility:** | ☐ enclosed | ☒ not requested | ☐ nothing listed |
| **CA Inventory of Historic Resources (1976):** | ☐ enclosed | ☒ not requested | ☐ nothing listed |

**Caltrans Bridge Survey:** Not available at SSJVIC; please see https://dot.ca.gov/programs/environmental-analysis/cultural-studies/california-historical-bridges-tunnels

**Ethnographic Information:** Not available at SSJVIC

**Historical Literature:** Not available at SSJVIC

**Historical Maps:** Not available at SSJVIC; please see http://historicalmaps.arcgis.com/usgs/

**Local Inventories:** Not available at SSJVIC

**GLO and/or Rancho Plat Maps:** Not available at SSJVIC; please see http://www.glorecords.blm.gov/search/default.aspx#searchTabIndex=0&searchByTypeIndex=1 and/or http://www.oac.cdlib.org/view?docId=hb8489p15p;developer=local;style=oac4;doc.view=items

**Shipwreck Inventory:** Not available at SSJVIC; please see https://www.slc.ca.gov/shipwrecks/

**Soil Survey Maps:** Not available at SSJVIC; please see http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

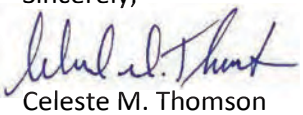
The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the record search number listed above when making inquiries. Invoices for Information Center services will be sent under separate cover from the California State University, Bakersfield Accounting Office.

Thank you for using the California Historical Resources Information System (CHRIS).

Sincerely,

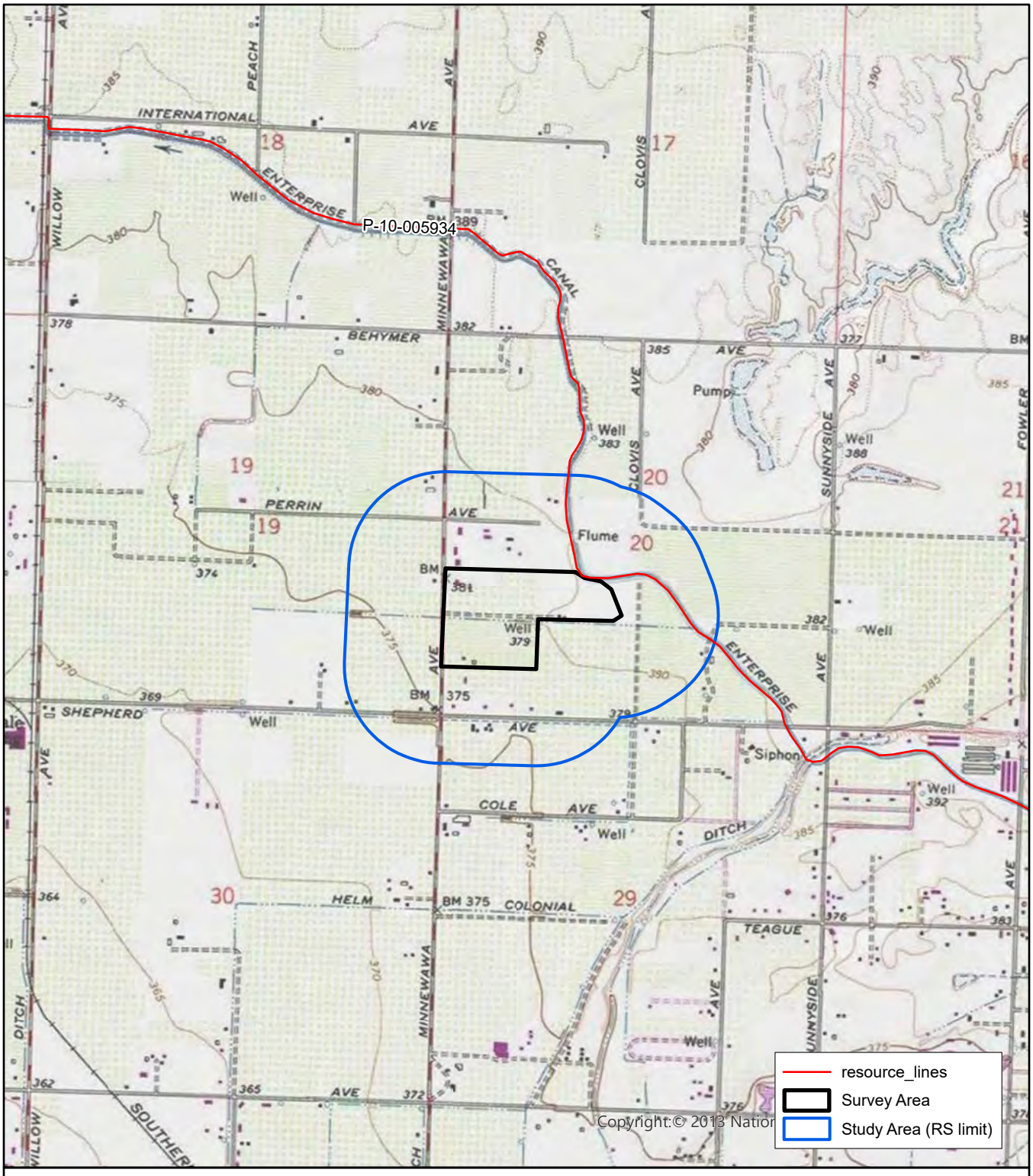


Celeste M. Thomson
Coordinator

# Resource List

**SSJVIC Record Search 23-288**

| Primary No. | Trinomial | Other IDs | Type | Age | Attribute codes | Recorded by | Reports |
|---|---|---|---|---|---|---|---|
| P-10-005934 | CA-FRE-003564H | Resource Name - Enterprise Canal;<br>OTIS Resource Number - 534499;<br>OHP Property Number - 163775 | Structure | Historic | HP20 | 2007 (R. Baloian, Applied EarthWorks, Inc.);<br>2013 (Randy Baloian, Applied EarthWorks, Inc.);<br>2017 (Ward Stanley and Randy Baloian, Applied EarthWorks, Inc.) | FR-02615, FR-02919, FR-03067 |

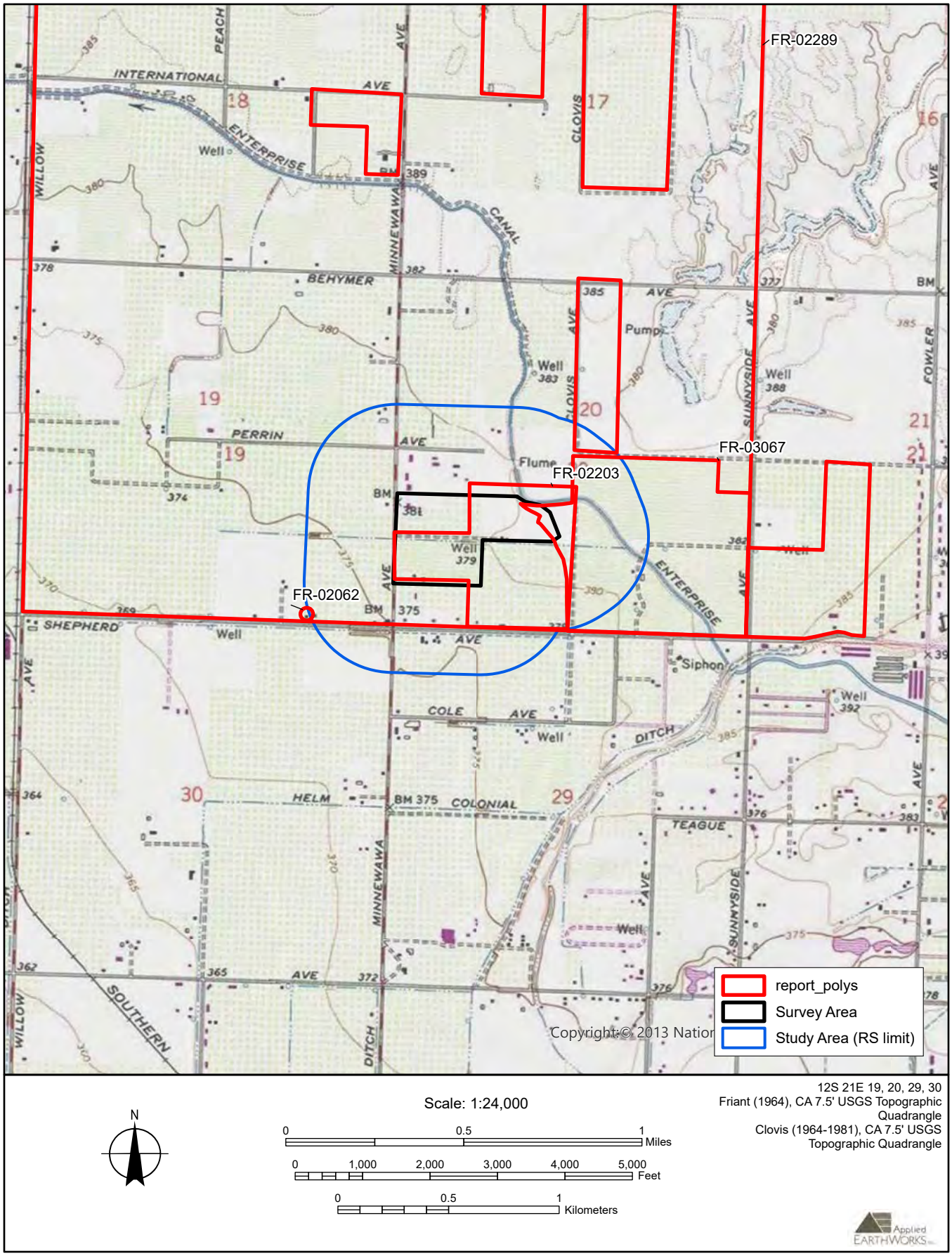



**Record Search Results Map: Resources**

# Report List

**SSJVIC Record Search 23-288**

| Report No. | Other IDs | Year | Author(s) | Title | Affiliation | Resources |
|---|---|---|---|---|---|---|
| FR-01219 | | 1993 | Bissonnette, Linda Dick | Fresno Metropolitan Flood Control District Drainage Area "BY" Facilities | Cultural Resources Consulting | |
| FR-02062 | | 2004 | Thal, Sean | Request for SHPO Review of FCC Undertaking (Shepherd/CA-1202A) | EarthTouch, Inc. | |
| FR-02203 | | 2006 | Varner, Dudley M. | A Cultural Resource Study of the Battlin Brooks Property, Fresno County, California | Varner Associates | |
| FR-02289 | | 2006 | Nettles, Wendy M. and Baloian, Randy | Cultural Resources Reconnaissance Survey of the City of Clovis Northwest Urban Center Specific Plan Area, Fresno County, California | Applied EarthWorks, Inc. | 10-006109 |
| FR-03067 | | 2018 | Stanley, Ward, Baloian, Randy, and Baloian, Mary | Cultural Resource Inventory and Evaluation for the Tract 6200 Development in the City of Clovis, Fresno County, California | Applied EarthWorks, Inc. | 10-005934 |




**Record Search Results Map: Reports**

# APPENDIX C

# Native American Outreach

# Sacred Lands File & Native American Contacts List Request

**Native American Heritage Commission**
1550 Harbor Boulevard, Suite 100
West Sacramento, CA 95691
916-373-3710
916-657-5390 – Fax
nahc@nahc.ca.gov

*Information Below is Required for a Sacred Lands File Search*

**Date:** 7/19/23

**Project:** 4523 Clovis tract 6375

**County:** Fresno

**USGS Quadrangle Name:** Clovis & Friant

**Township:** 12S 21E 19, 20, 29, 30

**Company/Firm/Agency:** Applied EarthWorks, Inc.

**Contact Person:** Milo Honsberger

**Street Address:** 1391 W. Shaw Ave., Suite C

**City:** Fresno **Zip:** 93711

**Phone:** (559) 229-1856 x

**Fax:** (559) 229-2019

**Email:** mhonsberger@appliedearthworks.com

## Project Description:

Applied earthworks will be conducting a survey at Tract 6375 in Fresno County.

STATE OF CALIFORNIA Gavin Newsom, *Governor*

# NATIVE AMERICAN HERITAGE COMMISSION

ACTING CHAIRPERSON
**Reginald Pagaling**
*Chumash*

SECRETARY
**Sara Dutschke**
*Miwok*

COMMISSIONER
**Isaac Bojorquez**
*Ohlone-Costanoan*

COMMISSIONER
**Buffy McQuillen**
*Yokayo Pomo, Yuki, Nomlaki*

COMMISSIONER
**Wayne Nelson**
*Luiseño*

COMMISSIONER
**Stanley Rodriguez**
*Kumeyaay*

COMMISSIONER
**Vacant**

COMMISSIONER
**Vacant**

COMMISSIONER
**Vacant**

EXECUTIVE SECRETARY
**Raymond C. Hitchcock**
*Miwok, Nisenan*

**NAHC HEADQUARTERS**
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

August 17, 2023

Milo Honsberger
Applied EarthWorks, Inc.

Via Email to: mhonsberger@appliedearthworks.com

**Re: 4523 Clovis tract 6375 Project, Fresno County**

Dear Mr. Honsberger:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Cameron.vela@nahc.ca.gov.

Sincerely,

Cameron Vela

Cameron Vela
Cultural Resources Analyst
Attachment

**Native American Heritage Commission**
**Native American Contact List**
**Fresno County**
**8/17/2023**

| Tribe Name | Fed (F) Non-Fed (N) | Contact Person | Contact Address | Phone # | Email Address | Cultural Affiliation |
|---|---|---|---|---|---|---|
| Big Sandy Rancheria of Western Mono Indians | F | Elizabeth Kipp, Chairperson | P.O. Box 337 37387 Auberry Mission Road Auberry, CA, 93602 | (559) 374-0066 | Lkipp@bsrnation.com | Western Mono |
| Big Sandy Rancheria of Western Mono Indians | F | Tom Zizzo, Tribal Administrator | P.O. Box 337 37387 Auberry Mission Road Auberry, CA, 93602 | (559) 374-0066 | Tzizzo@bsrnation.com | Western Mono |
| Big Sandy Rancheria of Western Mono Indians | F | Joel Marvin, Vice Chairperson | P.O. Box 337 37387 Auberry Mission Road Auberry, CA, 93602 | (559) 374-0066 | Jmarvin@bsrnation.com | Western Mono |
| Cold Springs Rancheria of Mono Indians | F | Jared Aldern, | P. O. Box 209 Tollhouse, CA. 93667 | (559) 855-5043 | csrepa@netptc.net | Mono |
| Cold Springs Rancheria of Mono Indians | F | Carol Bill, Chairperson | P.O. Box 209 Tollhouse, CA, 93667 | (559) 855-5043 | coldsprgstribe@netptc.net | Mono |
| Dumna Wo-Wah Tribal Government | N | Robert Ledger, Chairperson | 2191 West Pico Ave. Fresno, CA, 93705 | (559) 540-6346 | ledgerrobert@ymail.com | Foothill Yokut Mono |
| North Fork Mono Tribe | N | Ron Goode, Chairperson | 13396 Tollhouse Road Clovis, CA, 93619 | (559) 355-1774 | rwgoode911@hotmail.com | Mono |
| North Fork Mono Tribe | N | Anna Phipps, Tribal Secretary | 6051 Bear Creek Rd. Garden Valley, CA, 95633 | (916) 765-4784 | aphipps01@att.net | Mono |
| North Fork Mono Tribe | N | Jesse Valdez, Council Member - Archaeological Dir | 120 Monte Vista St. Lindsey, CA, 93247 | (559) 350-9113 | ariesgoathead@gmail.com | Mono |
| North Valley Yokuts Tribe | N | Timothy Perez, | P.O. Box 717 Linden, CA, 95236 | (209) 662-2788 | huskanam@gmail.com | Costanoan Northern Valley Yokut |
| North Valley Yokuts Tribe | N | Katherine Perez, Chairperson | P.O. Box 717 Linden, CA, 95236 | (209) 887-3415 | canutes@verizon.net | Costanoan Northern Valley Yokut |
| Picayune Rancheria of the Chukchansi Indians | F | Michael Wynn, Tribal Administrator | P.O. Box 2226 Oakhurst, CA, 93644 | (559) 795-4228 | mwynn@chukchansi-nsn.gov | Foothill Yokut |
| Picayune Rancheria of the Chukchansi Indians | F | Heather Airey, Tribal Historic Preservation Officer | P.O. Box 2226 Oakhurst, CA, 93644 | (559) 795-5986 | hairey@chukchansi-nsn.gov | Foothill Yokut |
| Picayune Rancheria of the Chukchansi Indians | F | Janet Bill, Chairperson | P.O. Box 2226 Oakhurst, CA, 93644 | (559) 580-4457 | council@chukchansi-nsn.gov | Foothill Yokut |
| Table Mountain Rancheria | F | Bob Pennell, Cultural Resource Director | P.O. Box 410 Friant, CA, 93626 | (559) 325-0351 | rpennell@tmr.org | Yokut |
| Table Mountain Rancheria | F | Brenda Lavell, Chairperson | P.O. Box 410 Friant, CA, 93626 | (559) 822-2587 | | Yokut |
| Traditional Choinumni Tribe | N | David Alvarez, Chairperson | 2415 E. Houston Avenue Fresno, CA, 93720 | (559) 217-0396 | davealvarez@sbcglobal.net | Foothill Yokut |
| Tule River Indian Tribe | F | Neil Peyron, Chairperson | P.O. Box 589 Porterville, CA, 93258 | (559) 781-4271 | neil.peyron@tulerivertribe-nsn.gov | Yokut |
| Tule River Indian Tribe | F | Kerri Vera, Environmental Department | P. O. Box 589 Porterville, CA, 93258 | (559) 783-8892 | kerri.vera@tulerivertribe-nsn.gov | Yokut |
| Tule River Indian Tribe | F | Joey Garfield, Tribal Archaeologist | P. O. Box 589 Porterville, CA, 93258 | (559) 783-8892 | joey.garfield@tulerivertribe-nsn.gov | Yokut |
| Wuksachi Indian Tribe/Eshom Valley Band | N | Kenneth Woodrow, Chairperson | 1179 Rock Haven Ct. Salinas, CA, 93906 | (831) 443-9702 | kwood8934@aol.com | Foothill Yokut Mono |

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed 4523 Clovis tract 6375 Project, Fresno County.

Applied EARTHWORKS Inc.
1391 W. Shaw Ave.,
Fresno, CA 93711-3600
O: (559) 229-1856 | F: (559) 229-2019
www.appliedearthworks.com

September 13, 2023

Joel Marvin, Vice Chairperson
Big Sandy Rancheria of Western Mono Indians
P.O. Box 337
Auberry, CA, 93602
(559) 374-0066
Transmitted via USPS and email (jmarvin@bsrnation.com)

RE: Clovis Tracts 6375 and 6452 Housing Development Projects in Clovis, Fresno County, California

Dear Joel Marvin,

Applied EarthWorks, Inc. (Æ) is providing cultural resource services, including archaeological survey, in support of proposed housing development. The development includes two separate projects on adjacent plots of land, the boundaries of which are just north of the City of Clovis.

The project areas are a combined 77 acres, one 18.23-acre parcel and one 58.9-acre parcel, as shown on the Friant and Clovis 7.5-minute U.S. Geological Survey topographic quadrangles (see enclosed maps). The project does involve new construction, including multiple ground-breaking activities related to construction and development. Therefore, a cultural resource study is required.

On behalf of the City of Clovis, Æ is conducting Native American outreach and performing other tasks related to cultural resource management. The project is subject to the requirements of the California Environmental Quality Act and, as lead agency, the City of Clovis is responsible for any formal government-to-government consultation required. This communication is not intended to initiate Assembly Bill 52 consultation.

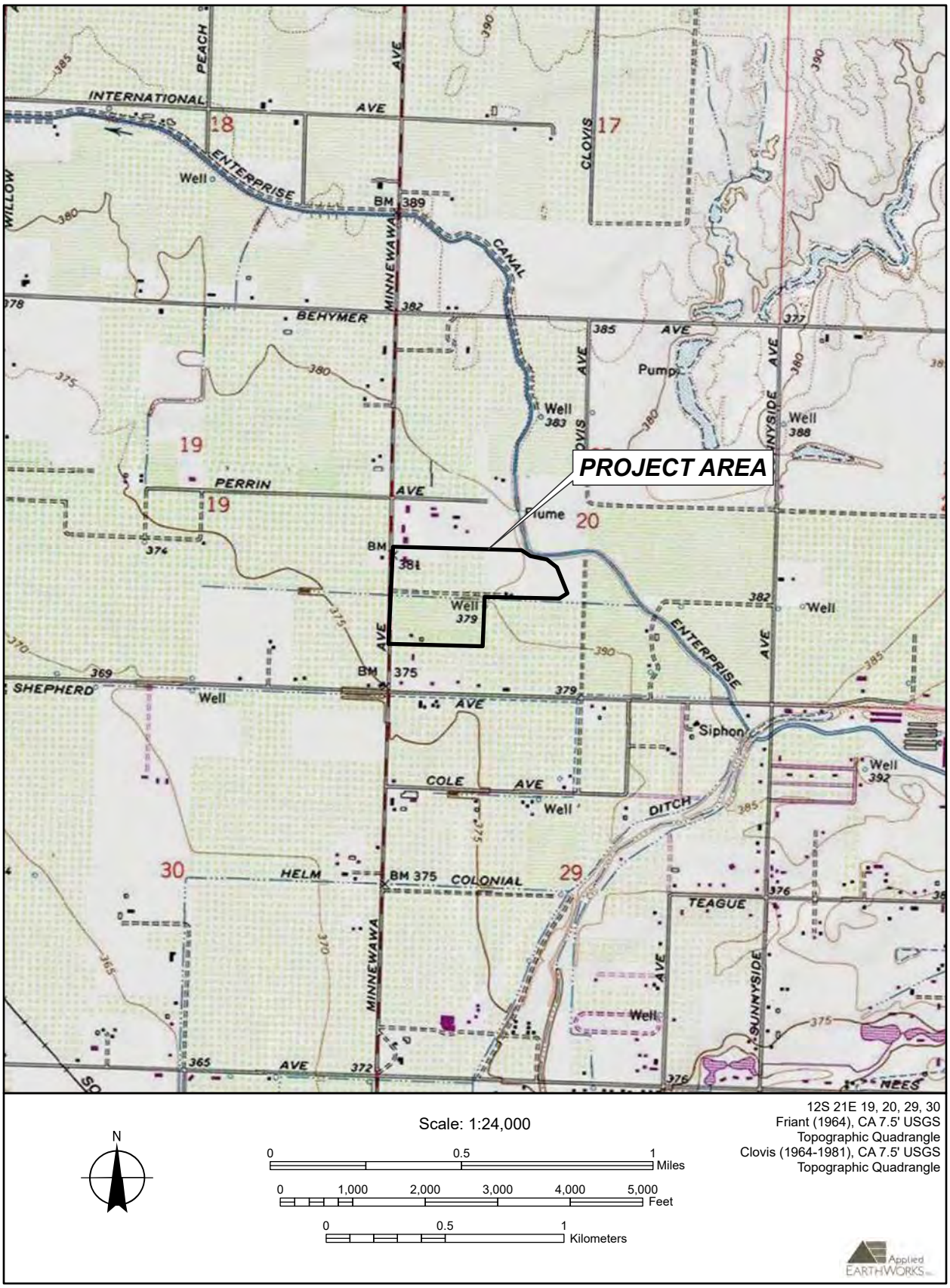
Æ has requested a sacred lands file search from the Native American Heritage Commission. The results were received on September 12, 2023 and indicated a negative result. Your name and address were provided to us by the NAHC as someone who may have additional information and/or concerns about the project.

If you have information about tribal or cultural resources in the area or if you have any interest in the project, please email/phone me or send a letter to my attention. Your comments will be included in our cultural resource report unless noted otherwise. You can contact me during normal business hours (559-229-1856 ext. 121) or via email at nsaenz@appliedearthworks.com if you have any questions or need additional information.

Sincerely,

Nicole Saenz, M.S.
Project Administrator, Fresno Office
Applied EarthWorks, Inc.

encl.: Project Maps




**Project location map for the *Project - AE4523*.**

# TABLE MOUNTAIN RANCHERIA
## TRIBAL GOVERNMENT OFFICE

CERTIFIED 4066 1535

October 18, 2023

Nicole Saenz, M.S., Project Administrator, Fresno Office
Applied EarthWorks Inc.
1391 W. Shaw Ave., Suite C
Fresno, CA 93711

RE: Clovis Tracts 6375 and 6452 Housing Development Projects

Dear: Nicole Saenz

Table Mountain Rancheria is responding to your letter dated September 13, 2023, regarding Clovis Tracts 6375 and 6452 Housing Development Projects. Thank you for notifying Table Mountain Rancheria of the potential development and request for consultation. The Rancheria is very interested in this project as it lies within our cultural area of interest.

If you have already conducted a record search, please provide Table Mountain Rancheria with copies of any cultural resource report you may have.

At this time, please contact our office at (559) 325-0351 or rpennell@tmr.org to coordinate a discussion and meeting date regarding your project.

Sincerely,

Robert Pennell
Tribal Cultural Resources Director

23736
Sky Harbour Road
Post Office
Box 410
Friant
California
93626
(559) 822-2587
Fax
(559) 822-2693

AGENDA ITEM NO. 16.

Nicole Saenz <nsaenz@appliedearthworks.com>

# City of Clovis Archaeology Project

2 messages

**Nicole Saenz** <nsaenz@appliedearthworks.com> Wed, Sep 13, 2023 at 3:40 PM
To: "lkipp@bsrnation.com" <lkipp@bsrnation.com>
Cc: Anna Hoover <ahoover@appliedearthworks.com>

Dear Elizabeth Kipp

Applied EarthWorks, Inc. is providing archaeological services for two projects in Clovis, Fresno County, CA. As a result of a recent Na ve American Heritage Commission (NAHC) Sacred Lands Search for these projects, your name and contact informa on was provided by the NAHC as someone who may have addi onal informa on and/or concerns about this project.

Please kindly review the a ached le er and project area map and respond with any comments or concerns you may have. Please note that our outreach is not formal government to government consulta on, but an opportunity for you to provide informa on for the archaeological report.

We appreciate your me and considera on.

--

***Nicole Saenz M.S.*** | **Applied EarthWorks, Inc.**
***Project Administrator - Osteologist - Field Technician*** | (She/Her)

1391 W. Shaw Ave., Suite C
Fresno, CA 93711-3600
Office 559-229-1856 x121
www.appliedearthworks.com

**Archaeology | Paleontology | Historical Architecture | GIS**

**2 attachments**

**NAHC_Map_4522.pdf**
725K

**Big Sandy Rancheria Chairperson.pdf**
139K

**Liz Kipp** <LKipp@bsrnation.com> Thu, Sep 14, 2023 at 2:51 PM
To: Nicole Saenz <nsaenz@appliedearthworks.com>
Cc: Anna Hoover <ahoover@appliedearthworks.com>

On behalf of Big Sandy Rancheria, we have no comments or concerns with the City of Clovis Archaeology Project. If at any time anything of cultural significance is discovered, we request to be notified. Thank you and have a great day.

Respectfully,

Elizabeth D. Hutchins-Kipp

Tribal Chairperson

2268

Big Sandy Rancheria

AGENDA ITEM NO. 16.

PO Box 337

37387 Auberry Mission Rd.

Auberry, California 93602

559-374-0066 ext. 212

559-374-0055 fax

Lkipp@bsrnation.com

This message and any attachments are intended only for the use of the individual or entity to which they are addressed. If the reader of this message or an attachment is not the intended recipient or the employee or agent responsible for delivering the message or attachment to the intended recipient you are hereby notified that any dissemination, distribution or copying of this message or any attachment is strictly prohibited. If you have received this communication in error, please notify us immediately by replying to the sender. The information transmitted in this message and any attachments may be privileged, is intended only for the personal and confidential use of the intended recipients, and is covered by the Electronic Communications Privacy Act, 18 U.S.C. §2510-2521.

Applied EARTHWORKS Inc.

# Native American Outreach

## Clovis Tract 6375 Project

| Organization | Name | Letter | Email | Phone | Summary of Contact |
|---|---|---|---|---|---|
| Big Sandy Rancheria of Western Mono Indians | Elizabeth Kipp | 09/14/23 | 09/13/23 | Message left 10/19/2023 | No response to date |
| Big Sandy Rancheria of Western Mono Indians | Tom Zizzo | 9/14/2023 | 9/13/2023 | Message left 10/19/2023 | No response to date |
| Big Sandy Rancheria of Western Mono Indians | Joel Marvin | 9/14/2023 | 9/13/2023 | 10/19/2023 | Requested to be informed of any discoveries |
| Cold Springs Rancheria of Mono Indians | Jared Aldern | 09/14/23 | 09/13/23 | 10/19/23 | No longer affiliated with tribal management |
| Cold Springs Rancheria of Mono Indians | Carol Bill | 09/14/23 | 09/13/23 | 10/19/23 | No longer affiliated with tribal management |
| Dumna Wo-Wah Tribal Government | Robert Ledger | 09/14/23 | 09/13/23 | Called 10/19/23; voicemail not set up | No response to date |
| North Fork Mono Tribe | Ron Goode | 09/14/23 | 09/13/23 | 10/19/23 | Requested that crews remain cognisant of the fact that there are several known sites in the area that have not been located. |
| North Fork Mono Tribe | Anna Phipps | 09/14/23 | 09/13/23 | Message left 10/19/2023 | No response to date |
| North Fork Mono Tribe | Jesse Valdez | 09/14/23 | 09/13/23 | Message left 10/19/2023 | No response to date |
| North Valley Yokuts Tribe | Timothy Perez | 09/14/23 | 09/13/23 | Message left 10/19/2023 | No response to date |
| North Valley Yokuts Tribe | Katherine Perez | 09/14/23 | 09/13/23 | Message left 10/19/2023 | No response to date |
| Picayune Rancheria of the Chukchansi Indians | Michael Wynn | 09/14/23 | 09/13/23 | Message left 10/19/2023 | No response to date |
| Picayune Rancheria of the Chukchansi Indians | Heather Airey | 09/14/23 | 09/13/23 | 10/19/23 | Declined interest in the project |
| Picayune Rancheria of the Chukchansi Indians | Janet Bill | 09/14/23 | 09/13/23 | – | – |
| Table Mountain Rancheria | Bob Pennell | 09/14/23 | 09/13/23 | 10/19/23 | Received e-mail response on 10/19, 2023 expressing interest and requesting a copy of the cultural resources report and meeting to discuss the project |
| Table Mountain Rancheria | Brenda Lavell | 09/14/23 | no email address | – | – |
| Traditional Choinumni Tribe | David Alvarez | 09/14/23 | 09/13/23 | 10/19/23 | Declined interest in the project |
| Tule River Indian Tribe | Neil Peyron | 09/14/23 | 09/13/23 | Message left 10/19/2023 | No response to date |
| Tule River Indian Tribe | Kerri Vera | 09/14/23 | 09/13/23 | 10/19/23 | Deferred interest to Table Mountain Rancheria |
| Tule River Indian Tribe | Joey Garfield | 09/14/23 | 09/13/23 | – | – |
| Wuksachi Indian Tribe/Eshom Valley Band | Kenneth Woodrow | 09/14/23 | 09/13/23 | Message left 10/19/2023 | No response to date |

# ACOUSTICAL ANALYSIS

## TRACT 6375
## CLOVIS, CALIFORNIA

## WJVA Project No. 23-25

**PREPARED FOR**

**LENNAR HOMES OF CALIFORNIA, INC.**
**8080 NORTH PALM AVENUE, SUITE 110**
**FRESNO, CALIFORNIA 93711**

**PREPARED BY**

**WJV ACOUSTICS, INC.**
**VISALIA, CALIFORNIA**

**MARCH 14, 2024**



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# INTRODUCTION

The project, Tract 6375, is a proposed 385-lot single-family residential development to be located in Clovis, California. The project site is located west of (and adjacent to) N. Minnewawa Avenue, north of E. Shepherd Avenue. The City of Clovis has requested an acoustical analysis to quantify project site noise exposure and determine noise mitigation requirements. This analysis, prepared by WJV Acoustics, Inc. (WJVA), is based upon a project site plan prepared by Yamabe & Horn Engineering (dated 8-8-23), traffic data provided by the Fresno Council of Governments (Fresno COG) and the findings of on-site noise level measurements. Revisions to the site plan may affect the findings and recommendations of this report. The site plan is provided as Figure 1.

Appendix A provides a description of the acoustical terminology used in this report. Unless otherwise stated, all sound levels reported are in A-weighted decibels (dB). A-weighting de-emphasizes the very low and very high frequencies of sound in a manner similar to the human ear. Most community noise standards utilize A-weighting, as it provides a high degree of correlation with human annoyance and health effects. Appendix B provides typical A-weighted sound levels for common noise sources.

# NOISE EXPOSURE CRITERIA

**General Plan**

The Noise Element of the City of Clovis General Plan establishes noise level standards for both transportation and non-transportation (stationary) noise sources. Table I provides the maximum interior and exterior noise level standards for various land use categories, in terms of the CNEL. The CNEL (Community Noise Equivalent Level) is the time-weighted average noise level for a 24-hour day with penalties of 4.77 dB added to noise levels occurring during the evening hours (7:00 p.m-10:00 p.m.) and 10 dB added to noise levels occurring during the nighttime hours (10:00 p.m-7:00 a.m.). Table II provides the Land Use Compatibility Matrix. The City of Clovis applies Table II as guidance to approve development and require mitigation measures to ensure existing and future land use compatibility.

The noise element establishes an exterior noise standard of 65 dB CNEL for exterior noise exposure within outdoor activity areas of residential land uses. Outdoor activity areas include backyards of single-family residences, individual patios or decks of multi-family developments and common outdoor recreation areas of multi-family developments. The intent of the exterior noise level requirement is to provide an acceptable noise environment for outdoor activities and recreation. There is no applicable exterior noise level standard for commercial or office land uses provided in the General Plan Noise Element.

The Noise Element also requires that interior noise levels attributable to exterior noise sources not exceed 45 dB CNEL. The intent of the interior noise level standard is to provide an acceptable noise environment for indoor communication and sleep.

## TABLE I

## MAXIMUM NOISE STANDARDS
## CITY OF CLOVIS GENERAL PLAN NOISE ELEMENT

| Land Use Categories | | Energy Average (CNEL) | |
|---|---|---|---|
| Primary Land Use | Additional Uses Allowed | Interior[1] | Exterior[2] |
| Residential | Single Family, Multi Family | 45[3]/55[4] | 65[7] |
| | Mobile Home | -- | 65[5] |
| Commercial/Industrial | Hotel, Motel, Transient Lodging | 45 | 65[6] |
| | Commercial, Retail, Bank, Restaurant | 55 | -- |
| | Office Building, Professional Office, Research & Development | 50 | -- |
| | Gymnasium (Multipurpose) | 50 | -- |
| | Health Clubs | 55 | -- |
| | Manufacturing, Warehousing, Wholesale, Utilities | 65 | -- |
| | Hospital, School Classroom | 45 | 65 |
| Institutional | Church Library | 45 | -- |
| Open Space | Parks | -- | 65 |

Source: City of Clovis General 2-12 Plan Environmental and Safety Element, 2014.
Notes:
[1] Interior environment excludes bathrooms, toilets, closets, and corridors.
[2] Outdoor environment limited to private yard of single family or multifamily residences private patio which is accessed by a means of exit from inside the unit; mobile home park; hospital patio; park picnic area; school playground; and hotel and motel recreation area.
[3] Noise level requirement with closed windows. Mechanical ventilating system or other means of natural ventilation shall be provided pursuant to Appendix Chapter 12, Section 1208 of UBC.
[4] Noise level requirement with open windows, if they are used to meet natural ventilation requirement.
[5] Multi-family developments with balconies that do not meet the 65 CNEL are required to provide occupancy disclosure notices to all future tenants regarding potential noise impacts.
[6] Exterior noise level shall be such that interior noise level will not exceed 45 CNEL.
[7] Except those areas affected by aircraft noise.

**TABLE II**

**LAND USE AND NOISE COMPATABILITY MATRIX**
**CITY OF CLOVIS GENERAL PLAN NOISE ELEMENT**

| LAND USES | ENERGY AVERAGE (CNEL) | | | | | | |
|---|---|---|---|---|---|---|---|
| **Example Land Uses** | **<** | **55** | **60** | **65** | **70** | **75** | **80>** |
| Amphitheater, concert hall, auditorium, meeting hall | B | B | C | C | D | D | D |
| Mobile Home | A | A | B | C | C | D | D |
| Hospital, library, school, faith/religious uses | A | A | B | C | C | D | D |
| Hotel, motel, transient lodging | A | A | B | B | C | C | D |
| Single-family, multi-family | A | A | B | B | C | D | D |
| Parks | A | A | A | B | C | D | D |
| Office buildings, research & development, professional office, city office building | A | A | A | B | B | C | D |
| Amusement park, miniature golf, go-cart track, health club, equestrian center | A | A | A | B | B | D | D |
| Golf courses, nature centers, cemeteries, wildlife reserves, wildlife habitat | A | A | A | A | B | C | C |
| Commercial retail, bank, restaurant, movie theater | A | A | A | A | B | B | C |
| Automobile service station, auto dealer, manufacturing, warehousing, wholesale, utilities | A | A | A | A | B | B | B |
| Agriculture | A | A | A | A | A | A | A |

Notes: Compatibility zones indicate the degree to which the land uses listed are compatible with the noise levels (CNEL) shown in the table.
Zone A. Clearly Compatible. Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction without any special noise insulation requirements.
Zone B. Normally Compatible. New construction or development should be undertaken only after detailed analysis of the noise reduction requirements are made and needed noise insulation features in the design are determined. Conventional construction, with closed windows and fresh air supply systems or air conditioning, will normally suffice.
Zone C. Normally Incompatible. New construction or development should normally be discouraged. If new construction or development does proceed, a detailed analysis or noise reduction requirements must be made and needed noise insulation features must be included in the design.
Zone D. Clearly Incompatible. New construction or development should generally not be undertaken.

**Municipal Code**

Additionally, the City of Clovis Municipal Code provides noise level standards applicable to the project. Section 9.22.080 (Noise) of the City's Municipal Code provides maximum allowable exterior and interior noise level standards for specific land use types. Noise level standards are provided as energy average ($L_{eq}$) noise levels and apply to any 15-minute interval of time. Table III provides the maximum allowable exterior noise level standards and Table IV provides the maximum allowable interior noise level standards. The Municipal Code also states that *"If the ambient noise level exceeds the resulting standard, the ambient shall be the standard".*

**TABLE III**

**MAXIMUM EXTERIOR NOISE STANDARDS**
**CITY OF CLOVIS MUNICIPAL CODE**

| Noise Zone | Type of Land Use | A-Weighted Decibels, $L_{eq}$ dBA Sources | |
|---|---|---|---|
| | | 7:00 a.m. to 10:00 p.m. | 10:00 p.m. to 7:00 a.m. |
| I | Single-, two- or multi-family residential | 55 | 50 |
| II | Commercial | 65 | 60 |
| III | Residential portions of mixed-use properties | 60 | 50 |
| IV | Industrial or manufacturing | 70 | 70 |

Source: City of Clovis Municipal Code

**TABLE IV**

**MAXIMUM INTERIOR NOISE STANDARDS**
**CITY OF CLOVIS MUNICIPAL CODE**

| Noise Zone | Type of Land Use | A-Weighted Decibels, $L_{eq}$ dBA Sources | |
|---|---|---|---|
| | | 7:00 a.m. to 10:00 p.m. | 10:00 p.m. to 7:00 a.m. |
| I | Residential | 45 | 40 |
| II | Administrative/professional office | 50 | -- |
| III | Residential portions of mixed-use properties | 45 | 40 |

Source: City of Clovis Municipal Code

# PROJECT SITE NOISE EXPOSURE

The project site is located west of (and adjacent to) N. Minnewawa Avenue, north of E. Shepherd Avenue, in Clovis, California. The project site is exposed traffic noise associated with vehicles on N. Minnewawa Avenue. The distance from center of the backyards of the closest proposed lots to the centerline of N. Minnewawa Avenue is approximately 60 feet.

## Traffic Noise Exposure

Noise exposure from traffic on N. Minnewawa Avenue was calculated for existing and future (2046) conditions using the FHWA Traffic Noise Model and traffic data obtained from Fresno COG. A description of the noise model, applied data, methodology and findings is provided below.

WJVA utilized the Federal Highway Administration (FHWA) Highway Traffic Noise Prediction Model (FHWA-RD-77-108). The FHWA Model is a standard analytical method used for roadway traffic noise calculations. The model is based upon reference energy emission levels for automobiles, medium trucks (2 axles) and heavy trucks (3 or more axles), with consideration given to vehicle volume, speed, roadway configuration, distance to the receiver, and the acoustical characteristics of the site. The FHWA Model was developed to predict hourly $L_{eq}$ values for free-flowing traffic conditions, and is generally considered to be accurate within ±1.5 dB. To predict CNEL values, it is necessary to determine the hourly distribution of traffic for a typical day and adjust the traffic volume input data to yield an equivalent hourly traffic volume.

Noise level measurements and concurrent traffic counts were conducted by WJVA staff within the project site on July 25, 2023. The purpose of the measurement was to evaluate the accuracy of the FHWA Model in describing traffic noise exposure within the project site. The traffic noise measurement site was located at a setback distance of approximately 35 feet from the centerline of N. Minnewawa Avenue. The posted speed limit was 45 mph (miles per hour). The project vicinity and noise monitoring site location are provided as Figure 2. A photograph showing the N. Minnewawa Avenue noise measurement site is provided as Figure 3.

Noise monitoring equipment consisted of Larson-Davis Laboratories Model LDL-820 sound level analyzer equipped with a B&K Type 4176 1/2" microphone. The equipment complies with the specifications of the American National Standards Institute (ANSI) for Type I (Precision) sound level meters. The meter was calibrated in the field prior to use with a B&K Type 4230 acoustic calibrator to ensure the accuracy of the measurements. The microphone was located on a tripod at 5 feet above the ground. The project site presently consists of undeveloped land and a portion is currently used for industrial purposes.

Noise measurements were conducted in terms of the equivalent energy sound level ($L_{eq}$). Measured $L_{eq}$ values were compared to $L_{eq}$ values calculated (predicted) by the FHWA Model using as inputs the traffic volumes, truck mix and vehicle speed observed during the noise measurements. The results of the comparison are shown in Table IV.

From Table IV it may be determined that the traffic noise levels predicted by the FHWA Model were 0.2 dB higher than those measured for the conditions observed at the time of the noise measurements for N. Minnewawa Avenue. This is considered to be excellent agreement with the model and therefore no adjustments to the model are necessary.

**TABLE IV**

**COMPARISON OF MEASURED AND PREDICTED (FHWA MODEL) NOISE LEVELS TRACT 6375, CLOVIS**

| | N. Minnewawa Ave. |
|---|---|
| Measurement Start Time | 9:50 a.m. |
| Observed # Autos/Hr. | 360 |
| Observed # Medium Trucks/Hr. | 24 |
| Observed # Heavy Trucks/Hr. | 24 |
| Observed Speed (MPH) | 45 |
| Distance, ft. (from center of roadway) | 35 |
| $L_{eq}$, dBA (Measured) | 68.2 |
| $L_{eq}$, dBA (Predicted) | 68.4 |
| **Difference between Predicted and Measured $L_{eq}$, dBA** | **0.2** |

Note: FHWA "soft" site assumed for calculations.
Source: WJV Acoustics, Inc.

Annual Average Daily Traffic (AADT) data for N. Minnewawa Avenue in the project vicinity was obtained from Fresno COG. Truck percentages and the day/night distribution of traffic were estimated by WJVA, based upon previous studies conducted in the project vicinity since project-specific data were not available from government sources. A speed limit of 55 mph was assumed for the roadway. Table V summarizes annual average traffic data used to model noise exposure within the project site.

**TABLE V**

**TRAFFIC NOISE MODELING ASSUMPTIONS TRCT 6375, CLOVIS**

| | N. Minnewawa Ave | |
|---|---|---|
| | Existing | 2046 |
| Annual Avenue Daily Traffic (AADT) | 9,058 | 5,474 |
| Day/Night Split (%) | 90/10 | |
| Assumed Vehicle Speed (mph) | 45 | |
| % Medium Trucks (% AADT) | 2 | |
| % Heavy Trucks (% AADT) | 2 | |

Sources: Fresno COG
WJV Acoustics, Inc.

Using data from Table V, the FHWA Model, annual average traffic noise exposure was calculated for the closest proposed backyards from N. Minnewawa Avenue. Table VI provides the noise exposure levels for N. Minnewawa Avenue, at the closest proposed residential lots to the roadway.

**TABLE VI**

**MODELED TRAFFIC NOISE LEVELS, W. MINNEWAWA AVENUE, dB, CNEL**
**TRACT 6375, CLOVIS**

| Roadway | Existing Conditions | 2046 Conditions |
|---|---|---|
| W. Minnewawa Avenue (north of Alicante Avenue) | 65.3 | 63.1 |

Source: WJV Acoustics
Fresno COG

Reference to Table VI indicates that the traffic noise exposure at the closest proposed lots to N. Minnewawa Avenue would be approximately 65 dB CNEL for existing conditions and approximately 63 dB CNEL for future (2046) traffic conditions on N. Minnewawa Avenue. The noise exposure level for existing traffic conditions slightly exceeds the City's 65 dB CNEL exterior noise level standard and mitigation measures are therefore required for compliance with the City's exterior noise level standard.

## Exterior Noise Mitigation:

The City of Clovis Noise Element of the General Plan establishes a 65 dB CNEL criterion within outdoor activity areas (backyards) of single-family homes. The project site traffic noise exposure for existing traffic conditions exceeds the 65 dB CNEL noise level standard at the closest proposed residential setbacks to N. Minnewawa Avenue, and mitigation measures must be incorporated into project design for project noise compliance.

To mitigate exterior traffic noise exposure along N. Minnewawa Avenue it will be necessary to construct a sound wall along the roadway. The sound walls will provide acoustical shielding of backyards located closest to the roadways.

A sound wall insertion loss program based on the FHWA Model was used to calculate the insertion loss (noise reduction) provided by the proposed sound walls. The model calculates the insertion loss of a wall of given height based on the effective height of the noise source, height of the receiver, distance from the receiver to the wall, and distance from the noise source to the wall. The standard assumptions used in the sound wall calculations are effective source heights of 8, 2 and 0 feet above the roadway for heavy trucks, medium trucks and automobiles, respectively. The standard height of a residential receiver is five feet above the ground elevation. It was assumed by WJVA that the building pad elevations at the closest proposed homes to N. Minnewawa Avenue will be approximately the same elevation as the roadway pavement.

Based upon the above-described assumptions and method of analysis, the noise level insertion loss values for sound walls of various heights were calculated. The calculations indicated that a sound wall along N. Minnewawa Avenue constructed to a minimum height of six (6) feet above project site grade would result in exterior noise levels of approximately 60 dB CNEL within the closest proposed backyards to N. Minnewawa Avenue. In order for the sound wall to effectively shield backyards where there will be access to the development from N. Minnewawa Avenue, the sound walls will need to be turned inward (eastward) for a distance of approximately twenty (20) feet at roadway access points.

With the incorporation of the above-described sound wall, the exterior noise exposure at the closest proposed setbacks along N. Minnewawa Avenue will comply with the City's 65 dB CNEL standard within individual backyards of the proposed single-family homes. It should be noted, the sound wall would be effective at first-floor elevation receivers only. The sound wall would not be effective at second-floor elevation receivers. Therefore, if two-story construction is proposed for the first row of homes adjacent to and facing N. Minnewawa Avenue, noise levels at potential second-floor balconies facing the roadway would exceed the 65 dB CNEL exterior noise level standard.

## Interior Noise Exposure:

The City of Clovis interior noise level standard is 45 dB CNEL. The worst-case noise exposure within the proposed residential development would be approximately 65 dB CNEL (2046 conditions). This means that the proposed residential construction must be capable of providing a minimum outdoor-to-indoor noise level reduction (NLR) of approximately 20 dB (65-45=20).

A specific analysis of interior noise levels was not performed. However, it may be assumed that residential construction methods complying with current building code requirements will reduce exterior noise levels by approximately 25 dB if windows and doors are closed. This will be sufficient for compliance with the City's 45 dB CNEL interior standard at all proposed lots. Requiring that it be possible for windows and doors to remain closed for sound insulation means that air conditioning or mechanical ventilation will be required.

## CONCLUSIONS AND RECOMMENDATIONS

The proposed 385-lot single-family residential development will comply with all City of Clovis exterior and interior noise level standards, provided the following mitigation measures are incorporated into final project design.

- A sound wall constructed to a minimum height of six (6) feet above project-side grade is constructed along the lot property lines along N. Minnewawa Avenue. In order for the sound wall to effectively shield backyards where there will be access to the development from N. Minnewawa Avenue, the sound walls will need to be turned inward (eastward), for a distance of approximately twenty (20) feet. Suitable construction materials include concrete blocks, masonry, or stucco on both sides of a wood or steel stud wall.

- Mechanical ventilation or air conditioning must be provided for all homes so that windows and doors can remain closed for sound insulation purposes.

The conclusions and recommendations of this acoustical analysis are based upon the best information known to WJV Acoustics Inc. (WJVA) at the time the analysis was prepared concerning the proposed lot layout plan, project site elevation, traffic volumes and roadway configurations. Any significant changes in these factors will require a reevaluation of the findings of this report. Additionally, any significant future changes in motor vehicle technology, noise regulations or other factors beyond WJVA's control may result in long-term noise results different from those described by this analysis.

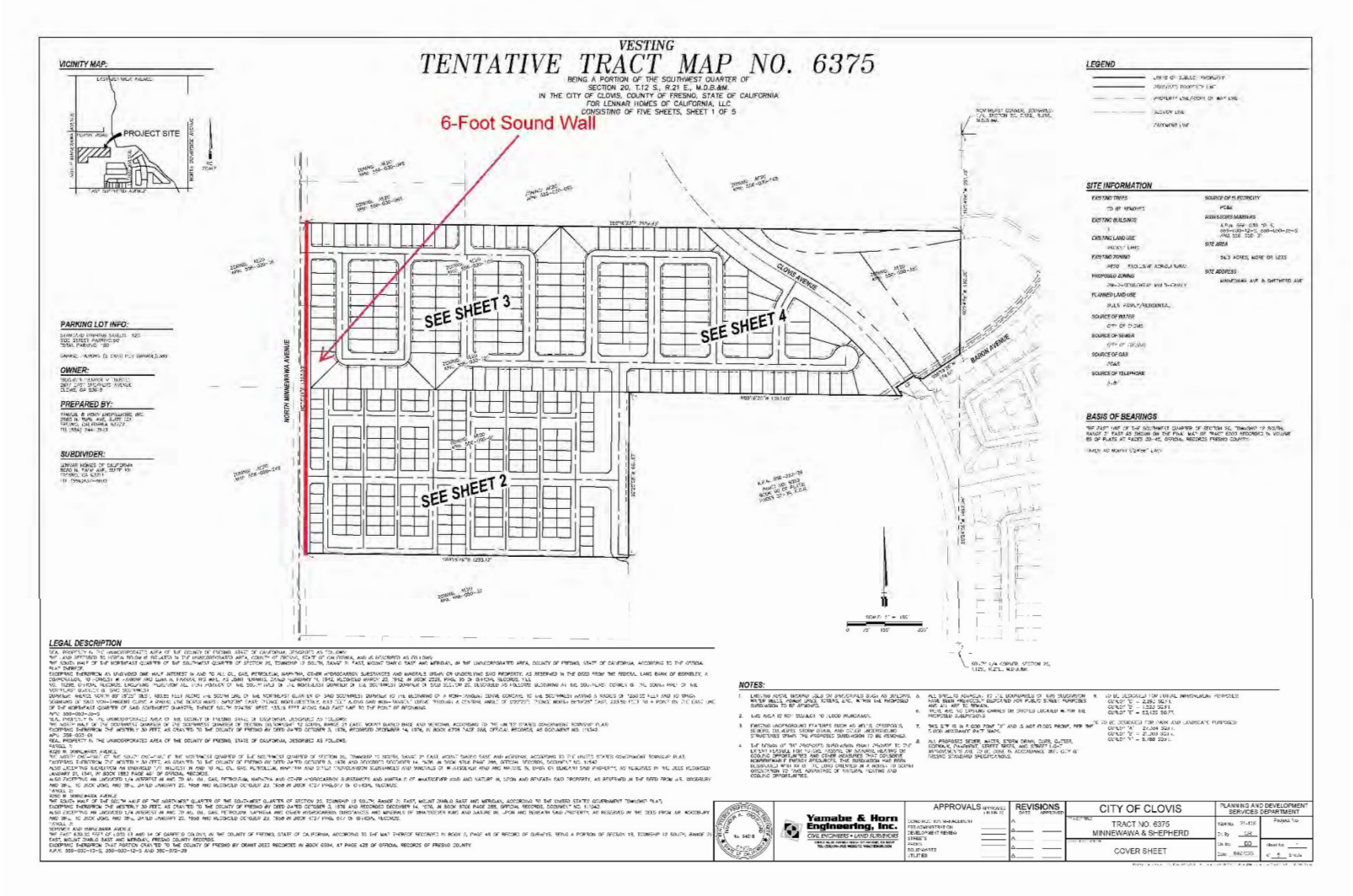
Respectfully submitted,



Walter J. Van Groningen
President

WJV:wjv

## FIGURE 1: SITE PLAN



## FIGURE 2: PROJECT SITE VICINITY AND NOISE MEASUREMENT LOCATION



## FIGURE 3: N. MINNEWAWA AVENUE NOISE MEASUREMENT SITE



# APPENDIX A

## ACOUSTICAL TERMINOLOGY

**AMBIENT NOISE LEVEL:** The composite of noise from all sources near and far. In this context, the ambient noise level constitutes the normal or existing level of environmental noise at a given location.

**CNEL:** Community Noise Equivalent Level. The average equivalent sound level during a 24-hour day, obtained after addition of approximately five decibels to sound levels in the evening from 7:00 p.m. to 10:00 p.m. and ten decibels to sound levels in the night before 7:00 a.m. and after 10:00 p.m.

**DECIBEL, dB:** A unit for describing the amplitude of sound, equal to 20 times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure, which is 20 micropascals (20 micronewtons per square meter).

**DNL/$L_{dn}$:** Day/Night Average Sound Level. The average equivalent sound level during a 24-hour day, obtained after addition of ten decibels to sound levels in the night after 10:00 p.m. and before 7:00 a.m.

**$L_{eq}$:** Equivalent Sound Level. The sound level containing the same total energy as a time varying signal over a given sample period. $L_{eq}$ is typically computed over 1, 8 and 24-hour sample periods.

**NOTE:** The CNEL and DNL represent daily levels of noise exposure averaged on an annual basis, while $L_{eq}$ represents the average noise exposure for a shorter time period, typically one hour.

**$L_{max}$:** The maximum noise level recorded during a noise event.

**$L_n$:** The sound level exceeded "n" percent of the time during a sample interval ($L_{90}$, $L_{50}$, $L_{10}$, etc.). For example, $L_{10}$ equals the level exceeded 10 percent of the time.

# A-2

## ACOUSTICAL TERMINOLOGY

**NOISE EXPOSURE CONTOURS:** Lines drawn about a noise source indicating constant levels of noise exposure. CNEL and DNL contours are frequently utilized to describe community exposure to noise.

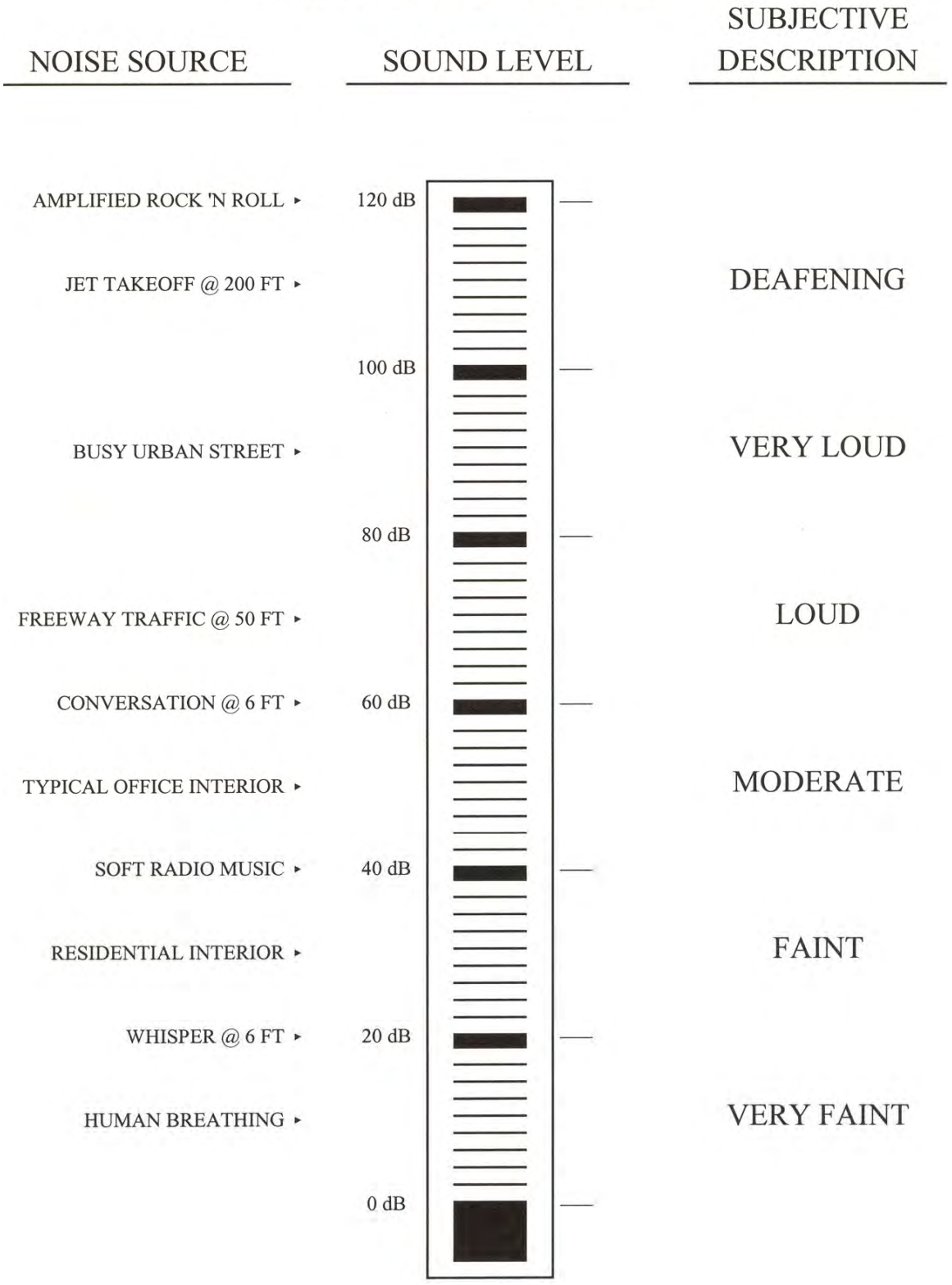
**NOISE LEVEL REDUCTION (NLR)**: The noise reduction between indoor and outdoor environments or between two rooms that is the numerical difference, in decibels, of the average sound pressure levels in those areas or rooms. A measurement of "noise level reduction" combines the effect of the transmission loss performance of the structure plus the effect of acoustic absorption present in the receiving room.

**SEL or SENEL:** Sound Exposure Level or Single Event Noise Exposure Level. The level of noise accumulated during a single noise event, such as an aircraft overflight, with reference to a duration of one second. More specifically, it is the time-integrated A-weighted squared sound pressure for a stated time interval or event, based on a reference pressure of 20 micropascals and a reference duration of one second.

**SOUND LEVEL:** The sound pressure level in decibels as measured on a sound level meter using the A-weighting filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the response of the human ear and gives good correlation with subjective reactions to noise.

**SOUND TRANSMISSION CLASS (STC):** The single-number rating of sound transmission loss for a construction element (window, door, etc.) over a frequency range where speech intelligibility largely occurs.

# APPENDIX B
## EXAMPLES OF SOUND LEVELS



# TRANSPORTATION IMPACT ANALYSIS

## *Proposed Tract 6375*

### *West of the Intersection of Clovis and Baron Avenues*

### *Clovis, California*

***Prepared For:***

Lennar Homes, Inc.
8080 North Palm Avenue, Suite 110
Fresno, California 93711

***Date:***

December 21, 2023

***Job No.:***

23-040.01

PETERS ENGINEERING GROUP
A CALIFORNIA CORPORATION

PETERS ENGINEERING GROUP
A CALIFORNIA CORPORATION

## EXECUTIVE SUMMARY

This report presents the results of a Transportation Impact Analysis for proposed Tract 6375 in Clovis, California. This analysis focuses on the anticipated effect of vehicle traffic resulting from the Project. The Transportation Impact Analysis was performed in general conformance with the City of Clovis *Transportation Impact Analysis Guidelines* dated September 15, 2022 (City Guidelines).

The Project site covers roughly 50 acres between Clovis and Minnewawa Avenues and generally between Shepherd Avenue and the Perrin Avenue alignment in Clovis, California. The Project will include 387 single-family residential lots. Site access is proposed via two local streets connecting to Minnewawa Avenue, one local street connecting to Clovis Avenue north of Baron Avenue, and a connection to DeWitt Avenue at Vintage Lane. It is our understanding that development along the frontage of Minnewawa Avenue will result in one northbound lane, one southbound lane, and a two-way left-turn lane on Minnewawa Avenue at the site access locations.

This report includes analysis of the following intersections:

1. Willow Avenue / International Avenue
2. Minnewawa Avenue / International Avenue
3. Willow Avenue / Behymer Avenue
4. Minnewawa Avenue / Behymer Avenue
5. Minnewawa Avenue / Shepherd Avenue
6. DeWitt Avenue / Shepherd Avenue
7. Clovis Avenue / Shepherd Avenue
8. Clovis Avenue / Site Access Street (left turn in)

This report includes analysis of the following road segments:

1. Behymer Avenue between Willow and Minnewawa Avenues
2. Minnewawa Avenue between Site Access and Behymer Avenues

The study time periods include the weekday a.m. and p.m. peak hours determined between 7:00 and 9:00 a.m. and between 4:00 and 6:00 p.m. The peak hours are analyzed for the following conditions:

- Existing Conditions;
- Existing-Plus-Project Conditions;
- Near-Term With-Project Conditions (includes pending and approved projects not yet occupied);
- Cumulative (Year 2045) With-Project Conditions.

Standard traffic engineering principles and methods were employed to establish the existing conditions, to estimate the number of trips expected to be generated by the Project, and to

analyze the traffic conditions that are expected to occur in the future. The conclusions of the study are summarized in the following sections.

## Trip Generation

The Project is expected to generate approximately 3,650 vehicle trips per day (1,825 trips entering the site and 1,825 trips exiting the site). Peak-hour traffic volumes are expected to be on the order of 271 trips during the a.m. peak hour and 364 trips during the p.m. peak hour.

## CEQA Impact Analysis (VMT)

Project-specific traffic modeling indicates a calculated Project VMT of 16.6 VMT per capita, which is greater than the threshold of 14.1 VMT per capita. Therefore, the Project would create a significant transportation impact.

The Project will implement feasible mitigation measures such as constructing sidewalk and trails. These Project design features can help offset a portion of the VMT impact of the Project but will not reduce the impact to less than significant. Therefore, the Project will have a significant and unavoidable transportation impact under CEQA.

It is recommended that the proposed Project, consistent with the General Plan, tier its environmental review from the General Plan SEIR, which has disclosed the VMT impacts of land use development consistent with the General Plan. Therefore, the Project's significant transportation impact does not need to be disclosed in a Project-specific EIR.

## Existing Conditions

The study intersections are currently operating at acceptable levels of service with calculated 95$^{th}$-percentile queues contained within the available storage capacity, with the exception that the intersection of Minnewawa and Behymer Avenues (all-way stop control) currently operates at LOS E during the a.m. peak hour and LOS F during the p.m. peak hour. The study road segments are currently operating at acceptable levels of service.

## Existing-Plus-Project Conditions

The existing-plus-Project-conditions analyses represent conditions that would occur after construction of the Project if none of the pending and approved projects were constructed. This scenario isolates the specific effects of the Project. The study intersections and road segments are expected to continue to operate at levels of service similar to the existing conditions. The Project will not cause any intersections currently operating at acceptable LOS to operate worse than the target LOS, and the calculated 95$^{th}$-percentile queues are within the available storage capacity.

The Project is expected to increase delays at the intersection of Minnewawa and Behymer Avenues, which operates at LOS E during the a.m. peak hour and LOS F during the p.m. peak hour.

Existing-Plus-Project Improved Conditions

In order for the intersection of Minnewawa and Behymer Avenues to operate at acceptable LOS, the intersection may be signalized. At a minimum, dedicated left-turn lanes with

protected left-turn phasing would be required on the northbound and southbound approaches. With signalization, the intersection is expected to operate at LOS B during the a.m. and p.m. peak hours.

**Near-Term With-Project Conditions**

The near-term with-Project conditions analyses represent conditions that are expected after construction of the Project and the known pending and approved projects. This scenario isolates the near-term cumulative effects of the Project and other known projects. The study intersections and road segments are expected to continue to operate at acceptable levels of service, with the following exceptions:

- Minnewawa Avenue / International Avenue: LOS E on the westbound approach during the a.m. peak hour with two-way stop control.
- Minnewawa Avenue / Behymer Avenue: LOS E during the a.m. and p.m. peak hours with all-way stop control.
- Minnewawa Avenue / Shepherd Avenue: LOS E during the a.m. peak hour and LOS F during the p.m. peak hour with traffic signals.

Calculated 95$^{th}$-percentile queues are contained within the existing storage capacity, with the following exceptions:

- Minnewawa Avenue / Shepherd Avenue: left-turn lanes on the eastbound, northbound, and southbound approaches, right-turn lanes on the eastbound and southbound approaches.
- Clovis Avenue / Shepherd Avenue: left-turn lane on the northbound approach, right-turn lanes on the eastbound and northbound approaches.

Near-Term With-Project Improved Conditions

In order for the intersection of Minnewawa and International Avenues to operate at acceptable LOS, all-way stop control may be installed. With all-way stop control, the intersection is expected to operate at LOS C during the a.m. peak hour and LOS B during the p.m. peak hour.

In order for the intersection of Minnewawa and Behymer Avenues to operate at acceptable LOS, the intersection may be signalized. At a minimum, dedicated left-turn lanes with protected left-turn phasing would be required on the northbound and southbound approaches. With signalization, the intersection is expected to operate at LOS B during the a.m. and p.m. peak hours.

In order for the intersection of Minnewawa and Shepherd Avenues to operate at acceptable LOS, the intersection would require modification from the existing conditions as follows:

Eastbound approach: maintain existing configuration

Westbound approach: add a second through lane; the right turn may be shared with the through lane.

Northbound approach: add a second through lane with a dedicated right-turn lane.

Southbound approach: add a second through lane with a dedicated right-turn lane.

## EXECUTIVE SUMMARY (Continued)

With widening, the intersection of Minnewawa and Shepherd Avenues is expected to operate at LOS C during the a.m. peak hour and LOS D during the p.m. peak hour.

In order to better accommodate queues at the intersection of Clovis and Shepherd Avenues, the intersection striping may be modified to open the second left-turn lane on the northbound approach. With the modification, the intersection is expected to operate at LOS C during the a.m. and p.m. peak hours.

### Cumulative Year 2045 With-Project Conditions

The year 2045 cumulative with-Project conditions analyses are based on the assumption that the Project has been constructed, the pending and approved projects have been constructed, and that 20 years of growth has occurred in the Clovis, Fresno, and Fresno County region as incorporated into the adopted Fresno County travel model. The study intersections and road segments are expected to continue to operate at acceptable levels of service, with the following exceptions:

- Minnewawa Avenue / International Avenue: LOS F on the westbound approach during the a.m. peak hour and LOS F on the eastbound approach during the p.m. peak hour with two-way stop control.
- Minnewawa Avenue / Behymer Avenue: LOS F during the a.m. and p.m. peak hours with all-way stop control.
- Minnewawa Avenue / Shepherd Avenue: LOS F during the a.m. and p.m. peak hours with traffic signals.
- DeWitt Avenue / Shepherd Avenue: LOS E on the southbound approach during the a.m. and p.m. peak hours with two-way stop control.

Calculated 95$^{th}$-percentile queues are contained within the existing storage capacity, with the following exceptions:

- Willow Avenue / Behymer Avenue: left-turn lane on the westbound approach.
- Minnewawa Avenue / Behymer Avenue: excessive queues on the westbound and southbound approaches.
- Minnewawa Avenue / Shepherd Avenue: excessive queues on all legs corresponding to LOS F at the intersection.
- Clovis Avenue / Shepherd Avenue: left-turn lanes on the westbound and northbound approaches, right-turn lanes on the eastbound, northbound, and southbound approaches.

Cumulative Year 2045 With-Project Improved Conditions

In order for the intersection of Minnewawa and International Avenues to operate at acceptable LOS, the intersection may be signalized. At a minimum, dedicated left-turn lanes with protected left-turn phasing would be required on the northbound and southbound approaches. With signalization, the intersection is expected to operate at LOS B during the a.m. and p.m. peak hours.

## EXECUTIVE SUMMARY (Continued)

In order for the intersection of Minnewawa and Behymer Avenues to operate at acceptable LOS, the intersection may be signalized. At a minimum, dedicated left-turn lanes with protected left-turn phasing would be required on all four approaches and a dedicated right-turn lane would be required on the westbound approach. With signalization, the intersection is expected to operate at LOS D during the a.m. and p.m. peak hours.

In order for the intersection of Minnewawa and Shepherd Avenues to operate at acceptable LOS, the intersection would require modification from the existing conditions as follows:

Eastbound approach: maintain existing configuration

Westbound approach: add a second through lane and a dedicated right-turn lane.

Northbound approach: add a second through lane with a dedicated right-turn lane.

Southbound approach: add a second through lane with a dedicated right-turn lane.

With the recommended widening, each approach to the intersection of Minnewawa and Shepherd Avenues would have one left-turn lane, two through lanes, and one right-turn lane. The intersection is expected to operate at LOS D during the a.m. and p.m. peak hours. It should be noted that long queues are calculated in the left-turn lanes on the northbound and southbound approaches. The City may consider lengthening the turn lanes or modifying the intersection to provide two left-turn lanes on the approaches in the future.

In order to better accommodate queues at the intersection of Clovis and Shepherd Avenues, the intersection striping may be modified to open the second left-turn lane on the northbound approach. With the modification, the intersection is expected to operate at LOS C during the a.m. and p.m. peak hours.

No improvements are recommended for the intersection of DeWitt Avenue and Shepherd Avenues because the LOS E is experienced by vehicles that are allowed only to make right turns and 95$^{th}$-percentile queues are expected to be only three to four vehicles long. The intersection is not a candidate for signalization and it is recommended that it be maintained in its existing configuration.

The proposed median break in Clovis Avenue at the proposed site access roadway is expected to operate at acceptable LOS with reasonable queues. The median break will serve to distribute Project trips such that drivers will be able to select the most convenient route. Therefore, it is recommended that the median break and left turn into the Project site be allowed.

PETERS ENGINEERING GROUP
A CALIFORNIA CORPORATION

Mr. Jeff Callaway
Lennar Homes, Inc.
8080 North Palm Avenue, Suite 110
Fresno, California 93711

December 21, 2023

Subject: Transportation Impact Analysis
Proposed Tract 6375
West of the Intersection of Clovis and Baron Avenues
Clovis, California

Dear Mr. Callaway:

## 1.0 INTRODUCTION

This report presents the results of a Transportation Impact Analysis for proposed Tract 6375 in Clovis, California. This analysis focuses on the anticipated effect of vehicle traffic resulting from the Project. The Transportation Impact Analysis was performed in general conformance with the City of Clovis *Transportation Impact Analysis Guidelines* dated September 15, 2022 (City Guidelines).

## 2.0 PROJECT DESCRIPTION

The Project site covers roughly 50 acres between Clovis and Minnewawa Avenues and generally between Shepherd Avenue and the Perrin Avenue alignment in Clovis, California. The Project will include 387 single-family residential lots. Site access is proposed via two local streets connecting to Minnewawa Avenue, one local street connecting to Clovis Avenue north of Baron Avenue, and a connection to DeWitt Avenue at Vintage Lane. It is our understanding that development along the frontage of Minnewawa Avenue will result in one northbound lane, one southbound lane, and a two-way left-turn lane on Minnewawa Avenue at the site access locations.

A site vicinity map is presented in the attached Figure 1, Site Vicinity Map, following the text of this report. A site plan is presented in Figure 2, Site Plan.

## 3.0 STUDY AREA AND TIME PERIOD

This report includes analysis of the following intersections:

1. Willow Avenue / International Avenue
2. Minnewawa Avenue / International Avenue
3. Willow Avenue / Behymer Avenue
4. Minnewawa Avenue / Behymer Avenue
5. Minnewawa Avenue / Shepherd Avenue
6. DeWitt Avenue / Shepherd Avenue
7. Clovis Avenue / Shepherd Avenue
8. Clovis Avenue / Site Access Street (left turn in)

This report includes analysis of the following road segments:

1. Behymer Avenue between Willow and Minnewawa Avenues
2. Minnewawa Avenue between Site Access and Behymer Avenues

This report includes an estimate of the number or Project trips that will occur at the following freeway interchanges:

1. State Route (SR) 168 interchange at Herndon Avenue
2. SR 168 interchange at Fowler Avenue

The study time periods include the weekday a.m. and p.m. peak hours determined between 7:00 and 9:00 a.m. and between 4:00 and 6:00 p.m. The peak hours are analyzed for the following conditions:

- Existing Conditions;
- Existing-Plus-Project Conditions;
- Near-Term With-Project Conditions (includes pending and approved projects not yet occupied);
- Cumulative (Year 2045) With-Project Conditions.

## 4.0 LANE CONFIGURATIONS AND INTERSECTION CONTROL

The existing lane configurations and intersection control at the study intersections are illustrated in Figure 3, Existing Lane Configurations and Intersection Control.

## 5.0 CITY OF CLOVIS GENERAL PLAN

The City of Clovis General Plan designates the streets at the study locations as follows:

- Willow Avenue: Arterial
- Minnewawa Avenue: Arterial south of Behymer Avenue and Collector north of Behymer Avenue
- DeWitt Avenue: Local
- Clovis Avenue: Arterial
- International Avenue: Collector

- Beyhmer Avenue: Arterial west of Clovis Avenue and Collector east of Clovis Avenue
- Shepherd Avenue: Arterial west of Clovis Avenue and Expressway east of Clovis Avenue

## 6.0 CEQA IMPACT ANALYSIS

### 6.1 Background and Significance Threshold

The City Guidelines provide guidance relative to analyzing vehicle miles traveled (VMT) for purposes of determining transportation impacts in accordance with the California Environmental Quality Act (CEQA).

The City Guidelines indicate that Projects that generate or attract fewer than 500 vehicle trips per day are presumed to cause a less-than-significant transportation impact. For residential projects, the City Guidelines indicate a significant transportation impact occurs if the Project VMT per capita is greater than a level of 13 percent below the existing average VMT per capita in Fresno County. The regional average is 16.1 VMT per capita, and the impact threshold is 14.1 VMT per capita.

### 6.2 Project-Specific VMT Analysis

The Project will generate more than 500 trips per day (see the Trip Generation section of this report) and the Project site lies within a red area on Figure B1 of the City Guidelines. Therefore, the Project is not be screened out with respect to transportation impacts and a Project-specific VMT analysis has been performed.

Project-specific traffic modeling was performed by a COG-approved traffic modeling consultant and the results are presented in Appendix A. The modeling indicates a calculated Project VMT of 16.6 VMT per capita, which is greater than the threshold of 14.1 VMT per capita. Therefore, the Project would create a significant transportation impact.

### 6.3 Feasible Mitigation Measures

Feasible mitigation measures must be identified to avoid or substantially reduce a significant impact under CEQA. Mitigation measures can be incorporated as a part of plans, policies, regulations, or project designs. Mitigation of VMT impacts typically requires changes in habits and behaviors of residents. Project design features that encourage mode shift from automobiles to transit or nonmotorized modes can potentially reduce project-specific VMT.

VMT reduction and benefits from project design features are typically not accounted for in the project-specific VMT calculations conducted using the regional travel demand model. Therefore, VMT reduction credit can be taken for Project design features that encourage the desired mode shift. Descriptions of such project design features and the corresponding potential VMT reduction are presented below. The potential VMT reduction was estimated using the California Air Pollution Control Officers Association's (CAPCOA) "*Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity – Designed for Local Governments, Communities, and Project Developers*" dated December 2021.

The Project proposes to provide pedestrian facilities both internal to the Project site and along the project frontage. Providing such improvements encourages people to walk instead of drive and thereby reduces VMT. CAPCOA transportation measure "T-18: Provide Pedestrian Network Improvement" provides an estimate of the VMT reduction due to project related enhancements in pedestrian access and connectivity. The Project study area includes more than five miles of existing and pending sidewalk. The Project proposes to add approximately 3¼ miles of sidewalk/pedestrian access. Utilizing the CAPCOA VMT reduction calculation, construction of sidewalk may reduce the Project's VMT by approximately 3.3 percent.

The Project proposes to construct up to ½ mile of Class II bike lane on Clovis Avenue and on Minnewawa Avenue. CAPCOA transportation measure "T-19A: Construct or Improve Bike Facility" suggests the Project bicycle design features have a potential to reduce up to 0.01 percent of the project VMT.

Implementation of the Project design features described above reduces the calculated Project VMT by up to approximately 3.3 percent. The Project design features can help offset a portion of the VMT impact of the Project but will not reduce the impact to less than significant. Therefore, the Project will have a significant and unavoidable transportation impact under CEQA.

### 6.4 Findings

On October 17, 2022 the Clovis City Council certified a supplemental environmental impact report (SEIR) with a statement of overriding considerations applicable to significant transportation impacts based on VMT for projects that conform to the General Plan and that have implemented feasible mitigation measures.

It is recommended that the proposed Project, consistent with the General Plan, tier its environmental review from the General Plan SEIR, which has disclosed the VMT impacts of land use development consistent with the General Plan. Therefore, the Project's significant transportation impact does not need to be disclosed in a Project-specific EIR.

## 7.0 LEVEL OF SERVICE

The Transportation Research Board *Highway Capacity Manual*, $7^{th}$ *Edition*, (HCM) defines level of service (LOS) as, "A quantitative stratification of a performance measure or measures that represent quality of service, measured on an A-F scale, with LOS A representing the best operating conditions from the traveler's perspective and LOS F the worst." Automobile mode LOS characteristics for both unsignalized and signalized intersections are presented in Tables 1 and 2. LOS characteristics for road segments are presented in Table 3.

**Table 1**
**Level of Service Characteristics for Unsignalized Intersections**

| Level of Service | Average Vehicle Delay (seconds) |
|---|---|
| A | 0-10 |
| B | >10-15 |
| C | >15-25 |
| D | >25-35 |
| E | >35-50 |
| F | >50 |

**Table 2**
**Level of Service Characteristics for Signalized Intersections**

| Level of Service | Description | Average Vehicle Delay (seconds) |
|---|---|---|
| A | Volume-to-capacity ratio is no greater than 1.0. Progression is exceptionally favorable or the cycle length is very short. | <10 |
| B | Volume-to-capacity ratio is no greater than 1.0. Progression is highly favorable or the cycle length is very short. | >10-20 |
| C | Volume-to-capacity ratio is no greater than 1.0. Progression is favorable or cycle length is moderate. | >20-35 |
| D | Volume-to-capacity ratio is high but no greater than 1.0. Progression is ineffective or cycle length is long. Many vehicles stop and individual cycle failures are noticeable. | >35-55 |
| E | Volume-to-capacity ratio is high but no greater than 1.0. Progression is unfavorable and cycle length is long. Individual cycle failures are frequent. | >55-80 |
| F | Volume-to-capacity ratio is greater than 1.0. Progression is very poor and cycle length is long. Most cycles fail to clear the queue. | >80 |

**Table 3**
**Level of Service Characteristics for Road Segments**

| Level of Service | Description |
|---|---|
| A | Free-flow operations. High operating speeds with a small amount of platooning. |
| B | Reasonably free-flow operations. Speed reductions are present and platooning becomes noticeable. |
| C | Most vehicles traveling in platoons and freedom to maneuver noticeably restricted. |
| D | Platooning increases significantly and speeds begin to decline. |
| E | Demand approaching capacity. Speeds seriously curtailed. |
| F | Demand exceeds capacity and heavy congestion exists. Unstable flow. |

Reference for Tables 1 through 3: *Highway Capacity Manual*, *7th Edition,* Transportation Research Board, 2022

The City of Clovis General Plan requires a minimum LOS D at intersections under the City's jurisdiction. The City Guidelines state the following: *"All City intersections and roadway*

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*segments shall operate at a LOS D or better under the near-term conditions, unless a finding of overriding consideration was adopted in the General Plan EIR. Under long-term conditions, all City intersections and roadway segments shall operate at a LOS D or better, except for the roadway segments adopted in the General Plan EIR to operate at LOS E or F. Exceptions to this standard may be allowed on a case by case basis where lower levels of service would result in other public benefits, such as:*

*a) Preserving agriculture or open space land*

*b) Preserving the rural/historic character of a neighborhood*

*c) Preserving or creating a pedestrian-friendly environment in Old Town or mixed-use village districts*

*d) Avoiding adverse impacts to pedestrians, cyclists, and transit riders*

*e) Where right-of-way constraints would make capacity expansion infeasible"*

For purposes of this study, a traffic issue may be identified if the addition of the traffic generated by the Project results in any one of the following:

- Triggers an intersection operating at acceptable LOS to operate at unacceptable levels of service;
- Increases the average delay for a study intersection that is already operating at unacceptable LOS.

## 8.0 EXISTING TRAFFIC VOLUMES

Existing traffic volumes were determined by performing manual turning movement counts between 7:00 and 9:00 a.m. and between 4:00 and 6:00 p.m. on a weekday. The traffic count data sheets are presented in Appendix B. The existing peak-hour turning movement volumes are presented in Figure 4, Existing Peak-Hour Traffic Volumes.

## 9.0 PROJECT TRIP GENERATION AND DISTRIBUTION

### 9.1 Project Trip Generation

Data provided in the Institute of Transportation Engineers (ITE) *Trip Generation Manual, 11th Edition*, are typically used to estimate the number of trips anticipated to be generated by proposed projects. Table 4 presents the vehicle trip generation estimates for the Project.

**Table 4**
**Project Trip Generation Estimate**

| Land Use | Units | Daily | | A.M. Peak Hour | | | | | P.M. Peak Hour | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Rate | Total | Rate | In:Out | In | Out | Total | Rate | In:Out | In | Out | Total |
| Single Family Detached Housing (210) | 387 | 9.43 | 3,650 | 0.70 | 26:74 | 70 | 201 | 271 | 0.94 | 63:37 | 229 | 165 | 364 |

Reference: *Trip Generation Manual, 11th Edition*, Institute of Transportation Engineers 2021
Rates are reported in trips per dwelling unit.

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## 9.2 Student Generation

For purposes of estimating trip distribution for students attending nearby schools, Table 5 presents the student generation estimates for the Project utilizing rates presented in the Clovis Unified School District *School Facilities Needs Analysis* by Odell Planning & Research, Inc. dated April 2023.

**Table 5**
**Student Generation Estimate – Single-Family Homes**

| Grade Level | Rate | Homes | Students |
|---|---|---|---|
| Elementary School (TK-6) | 0.3324 students per home | 387 | 129 |
| Intermediate School (7-8) | 0.0766 students per home | 387 | 30 |
| High School (9-12) | 0.1421 students per home | 387 | 55 |
| TOTAL: | 0.5511 students per home | 387 | 214 |

## 9.3 Project Trip Distribution and Assignment

The regional distribution of Project trips was estimated using the results of a select zone analysis utilizing the Fresno County travel model maintained by the Fresno Council of Governments (COG), engineering judgment based on our knowledge of the area, available traffic counts, the location and configuration of site access points, and available travel routes. A COG-approved traffic modeling consultant performed the Project-specific traffic modeling and the results are presented in Appendix A.

The estimated percentage distribution of Project trips is presented in Figure 5, Peak-Hour Project Traffic Distribution Percentages. The peak-hour trips presented in Table 3 were assigned to the adjacent road network in accordance with the trip distribution percentages in Figure 5. The peak-hour Project traffic volumes at the study intersections are presented in Figure 6, Peak-Hour Project Traffic Volumes.

Caltrans requested that the volume of Project trips (trip trace) expected at the SR 168 interchanges at Herndon Avenue and at Fowler Avenue be presented in the traffic study. The Project trips were assigned to the interchange and ramp locations based on the criteria described above and the results are presented in Tables 6 and 7.

**Table 6**
**Project Trips on State Facilities – SR 168 and Herndon Avenue Interchange**

| Location | A.M. Peak Hour Trips | P.M. Peak Hour Trips |
|---|---|---|
| Westbound off ramp | 3 | 3 |
| Westbound on ramp from eastbound Herndon | 0 | 0 |
| Westbound loop on ramp from westbound Herndon | 18 | 15 |
| Eastbound off ramp | 5 | 20 |
| Eastbound loop on ramp from eastbound Herndon | 0 | 0 |
| Eastbound on ramp from westbound Herndon | 3 | 3 |
| Herndon Avenue westbound through the interchange | 9 | 7 |
| Herndon Avenue eastbound through the interchange | 2 | 11 |

**Table 7**
**Project Trips on State Facilities – SR 168 and Fowler Avenue Interchange**

| Location | A.M. Peak Hour Trips | P.M. Peak Hour Trips |
|---|---|---|
| Westbound off ramp | 2 | 9 |
| Westbound on ramp | 0 | 0 |
| Eastbound off ramp | 1 | 2 |
| Eastbound on ramp | 8 | 4 |
| Fowler Avenue northbound through the interchange | 4 | 5 |
| Fowler Avenue southbound through the interchange | 8 | 5 |

## 10.0 EXISTING-PLUS-PROJECT TRAFFIC VOLUMES

Existing-Plus-Project traffic volumes are presented in Figure 7, Existing-Plus-Project Peak-Hour Traffic Volumes. The values in Figure 7 were determined by adding the values in Figures 4 and 6.

## 11.0 CUMULATIVE PROJECTS

Projects that were pending or not yet occupied when the traffic counts were performed. The following projects are considered in the near-term analyses:

- Tract 6205: 605 single-family homes northeast of the intersection of Shepherd and Sunnyside Avenues
- Tract 6343: 590 single-family homes northeast of the intersection of Behymer and Baron Avenues
- Tract 6406: 51 single-family homes southwest of the intersection of Perrin and Baron Avenues
- Tract 6452: 153 single-family homes northeast of the intersection of Perrin and Baron Avenues
- Heritage Grove: 18-acre mixed-use development southeast of the intersection of Willow and Shepherd Avenues. It is acknowledged that a master plan covering a much larger area has been proposed. However, a traffic study has not been prepared and it is unlikely that large portions of the master plan will be developed in the near-term condition.

## 12.0 NEAR-TERM TRAFFIC VOLUMES

Peak-hour near-term with-Project traffic volumes are presented in Figure 8, Near-Term With-Project Peak-Hour Traffic Volumes.

## 13.0 CUMULATIVE YEAR 2045 TRAFFIC VOLUMES

Cumulative traffic volumes for the year 2045 were estimated based on information available from the COG travel model. The base year and horizon year model output is presented in

Appendix A. Future weekday turning movements were estimated based on the methods presented in Chapter 8 of the Transportation Research Board National Cooperative Highway Research Program Report 255 entitled *"Highway Traffic Data for Urbanized Area Project Planning and Design."* Cumulative With-Project traffic volumes are presented in Figure 9, Cumulative (Year 2045) With-Project Peak-Hour Traffic Volumes.

## 14.0 INTERSECTION ANALYSES

The intersection levels of service were determined using the computer program Synchro 11, which incorporates HCM procedures for calculating levels of service. The intersection analysis sheets are presented in Appendix C.

Tables 8 through 11 present the results of the intersection analyses. For signalized and all-way stop-controlled intersections, the overall intersection LOS and the average delay per vehicle are presented. For one-way and two-way stop-controlled intersections, the HCM does not define an overall intersection LOS; therefore, the average delay and LOS for the approach with the greatest delay is presented. Delays and LOS worse than the target LOS are presented in bold type and are underlined.

**Table 8**
**Intersection LOS Summary – Existing Conditions**

| Intersection | Control | A.M. Peak Hour | | P.M. Peak Hour | |
|---|---|---|---|---|---|
| | | Delay (sec) | LOS | Delay (sec) | LOS |
| Willow / International | Signals | 18.9 | B | 14.0 | B |
| Minnewawa / International | Two-way stop | 12.0 | B | 12.0 | B |
| Willow / Behymer | Signals | 19.0 | B | 16.8 | B |
| Minnewawa / Behymer | All-way stop | **38.0** | **E** | **54.7** | **F** |
| Minnewawa / Shepherd | Signals | 19.4 | B | 18.3 | B |
| DeWitt / Shepherd | Two-way stop | 16.6 | C | 13.7 | B |
| Clovis / Shepherd | Signals | 16.3 | B | 16.2 | B |
| Clovis / Site Access | Does not exist | | | | |

**Table 9**
**Intersection LOS Summary – Existing-Plus-Project Conditions**

| Intersection | Control | A.M. Peak Hour | | P.M. Peak Hour | |
|---|---|---|---|---|---|
| | | Delay (sec) | LOS | Delay (sec) | LOS |
| Willow / International | Signals | 19.1 | B | 14.0 | B |
| Minnewawa / International | Two-way stop | 12.0 | B | 12.1 | B |
| Willow / Behymer | Signals | 19.2 | B | 16.9 | B |
| Minnewawa / Behymer | All-way stop | **46.9** | **E** | **62.4** | **F** |
| Minnewawa / Shepherd | Signals | 20.8 | C | 20.3 | C |
| DeWitt / Shepherd | Two-way stop | 18.0 | C | 14.4 | B |
| Clovis / Shepherd | Signals | 16.6 | B | 16.7 | B |
| Clovis / Site Access (NB left) | Yield | 7.3 | A | 7.4 | A |

**Table 10**
**Intersection LOS Summary – Near-Term With-Project Conditions**

| Intersection | Control | A.M. Peak Hour | | P.M. Peak Hour | |
|---|---|---|---|---|---|
| | | Delay (sec) | LOS | Delay (sec) | LOS |
| Willow / International | Signals | 20.7 | C | 16.3 | B |
| Minnewawa / International | Two-way stop | **45.1** | **E** | 24.9 | C |
| Willow / Behymer | Signals | 21.7 | C | 19.9 | B |
| Minnewawa / Behymer | All-way stop | **106.9** | **F** | **127.5** | **F** |
| Minnewawa / Shepherd | Signals | **65.1** | **E** | **94.0** | **F** |
| DeWitt / Shepherd | Two-way stop | 18.8 | C | 14.7 | B |
| Clovis / Shepherd | Signals | 24.2 | C | 26.2 | C |
| Clovis / Site Access (NB left) | Yield | 7.8 | A | 7.9 | A |

**Table 11**
**Intersection LOS Summary – Year 2045 Cumulative With-Project Conditions**

| Intersection | Control | A.M. Peak Hour | | P.M. Peak Hour | |
|---|---|---|---|---|---|
| | | Delay (sec) | LOS | Delay (sec) | LOS |
| Willow / International | Signals | 28.6 | C | 16.8 | B |
| Minnewawa / International | Two-way stop | **78.8** | **F** | **75.9** | **F** |
| Willow / Behymer | Signals | 31.3 | C | 21.7 | C |
| Minnewawa / Behymer | All-way stop | **>300** | **F** | **295.2** | **F** |
| Minnewawa / Shepherd | Signals | **146.8** | **F** | **143.4** | **F** |
| DeWitt / Shepherd | Two-way stop | **46.0** | **E** | **35.9** | **E** |
| Clovis / Shepherd | Signals | 34.5 | C | 36.0 | D |
| Clovis / Site Access (NB left) | Yield | 10.2 | B | 9.3 | A |

The results of the intersection operational analyses include an estimate of the 95$^{th}$-percentile queue lengths. The existing storage capacity (where applicable) and the calculated 95$^{th}$-percentile queue lengths are presented in Tables 12 through 15. The storage capacities reported in Tables 12 through 15 are based on measurements from available aerial photographs. Calculated 95$^{th}$-percentile queue lengths that exceed the storage capacity by more than 25 (approximate space required for one vehicle) or that are considered to be excessive are indicated in bold type and are underlined.

Notes and abbreviations for Tables 12 through 15:

* Storage length exceeds 1,000 feet

\+ Additional storage available – connects to a through lane or two-way left-turn lane

S: Shared movement

DNS: Does not stop

TBD: To be determined

## Table 12
## Intersection Queuing Summary – Existing Conditions

| Intersection | | Number of Lanes, Storage (feet), and Queue Length (feet) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Willow/ International | Lanes | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 3 | 1 |
| | Storage | 250 | 920 | 240+ | 50+ | * | 25 | 250 | * | 240+ | 250 | * | 205 |
| | A.M. | 62 | 65 | 42 | 23 | 176 | 0 | 161 | 140 | 0 | 85 | 134 | 10 |
| | P.M. | 26 | 62 | 46 | 27 | 76 | 3 | 68 | 137 | 0 | 60 | 82 | 0 |
| Minnewawa/ International | Lanes | S | 1 | S | S | 1 | S | S | 1 | S | S | 1 | S |
| | Storage | | * | | | * | | | * | | | * | |
| | A.M. | | 15 | | | 0 | | | 25 | | | 0 | |
| | P.M. | | 15 | | | 0 | | | 10 | | | 0 | |
| Willow/ Behymer | Lanes | 1 | 1 | 1 | 1 | 1 | S | 1 | 3 | 1 | 1 | 3 | 1 |
| | Storage | 235 | * | 240+ | 88 | * | | 250 | * | 105 | 250 | * | 205 |
| | A.M. | 72 | 99 | 50 | 30 | 180 | | 125 | 178 | 0 | 63 | 126 | 0 |
| | P.M. | 27 | 73 | 31 | 35 | 141 | | 141 | 131 | 0 | 120 | 128 | 0 |
| Minnewawa/ Behymer | Lanes | S | 1 | S | S | 1 | S | S | 1 | S | S | 1 | S |
| | Storage | | * | | | * | | | * | | | * | |
| | A.M. | | 73 | | | 278 | | | 158 | | | 188 | |
| | P.M. | | 123 | | | 290 | | | 193 | | | 308 | |
| Minnewawa/ Shepherd | Lanes | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Storage | 250 | * | 45 | 250 | * | 200 | 250 | * | 225+ | 255 | * | 25 |
| | A.M. | 41 | 158 | 27 | 137 | 434 | 41 | 152 | 159 | 0 | 139 | 181 | 0 |
| | P.M. | 40 | 186 | 31 | 93 | 379 | 35 | 143 | 169 | 7 | 116 | 183 | 0 |
| DeWitt/ Shepherd | Lanes | 1 | 2 | S | 1 | 1 | 1 | | | 1 | | | 1 |
| | Storage | 265 | * | | 265 | * | 225+ | | | 85 | | | 500 |
| | A.M. | 3 | DNS | | 0 | DNS | DNS | | | 3 | | | 18 |
| | P.M. | 3 | DNS | | 0 | DNS | DNS | | | 3 | | | 8 |
| Clovis/ Shepherd | Lanes | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 |
| | Storage | 250 | * | 50 | 250 | * | 255 | 235 | * | 65 | 255 | * | 100 |
| | A.M. | 29 | 118 | 53 | 47 | 182 | 0 | 132 | 20 | 6 | 16 | 24 | 0 |
| | P.M. | 26 | 133 | 40 | 34 | 130 | 0 | 134 | 23 | 16 | 10 | 16 | 0 |

## Table 13
## Intersection Queuing Summary – Existing-Plus-Project Conditions

| Intersection | | Number of Lanes, Storage (feet), and Queue Length (feet) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **EBL** | **EBT** | **EBR** | **WBL** | **WBT** | **WBR** | **NBL** | **NBT** | **NBR** | **SBL** | **SBT** | **SBR** |
| Willow/ International | Lanes | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 3 | 1 |
| | Storage | 250 | 920 | 240+ | 50+ | * | 25 | 250 | * | 240+ | 250 | * | 205 |
| | A.M. | 62 | 66 | 42 | 23 | 183 | 0 | 161 | 140 | 0 | 85 | 134 | 10 |
| | P.M. | 26 | 64 | 47 | 28 | 81 | 3 | 69 | 139 | 0 | 61 | 84 | 0 |
| Minnewawa/ International | Lanes | S | 1 | S | S | 1 | S | S | 1 | S | S | 1 | S |
| | Storage | | * | | | * | | | * | | | * | |
| | A.M. | | 15 | | | 0 | | | 25 | | | 0 | |
| | P.M. | | 18 | | | 0 | | | 13 | | | 0 | |
| Willow/ Behymer | Lanes | 1 | 1 | 1 | 1 | 1 | S | 1 | 3 | 1 | 1 | 3 | 1 |
| | Storage | 235 | * | 240+ | 88 | * | | 250 | * | 105 | 250 | * | 205 |
| | A.M. | 72 | 99 | 50 | 30 | 190 | | 125 | 178 | 0 | 64 | 126 | 0 |
| | P.M. | 27 | 76 | 31 | 35 | 145 | | 141 | 131 | 0 | 124 | 128 | 0 |
| Minnewawa/ Behymer | Lanes | S | 1 | S | S | 1 | S | S | 1 | S | S | 1 | S |
| | Storage | | * | | | * | | | * | | | * | |
| | A.M. | | 80 | | | 318 | | | 200 | | | 215 | |
| | P.M. | | 130 | | | 288 | | | 215 | | | 358 | |
| Minnewawa/ Shepherd | Lanes | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Storage | 250 | * | 45 | 250 | * | 200 | 250 | * | 225+ | 255 | * | 25 |
| | A.M. | 54 | 161 | 27 | 157 | 456 | 44 | 152 | 168 | 0 | 165 | 201 | 0 |
| | P.M. | 88 | 196 | 31 | 112 | 400 | 36 | 145 | 196 | 24 | 140 | 202 | 0 |
| DeWitt/ Shepherd | Lanes | 1 | 2 | S | 1 | 1 | 1 | | | 1 | | | 1 |
| | Storage | 265 | * | | 265 | * | 225+ | | | 85 | | | 500 |
| | A.M. | 3 | DNS | | 0 | DNS | DNS | | | 3 | | | 25 |
| | P.M. | 8 | DNS | | 0 | DNS | DNS | | | 3 | | | 10 |
| Clovis/ Shepherd | Lanes | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 |
| | Storage | 250 | * | 50 | 250 | * | 255 | 235 | * | 65 | 255 | * | 100 |
| | A.M. | 32 | 127 | 59 | 49 | 190 | 0 | 138 | 24 | 6 | 32 | 39 | 0 |
| | P.M. | 34 | 143 | 45 | 35 | 142 | 1 | 145 | 36 | 16 | 24 | 28 | 0 |
| Clovis/ Site Access | Lanes | | | 1 | | | | 1 | 2 | | | 2 | S |
| | Storage | | | 250± | | | | TBD | 500± | | | * | |
| | A.M. | | | 8 | | | | 3 | DNS | | | DNS | |
| | P.M. | | | 5 | | | | 5 | DNS | | | DNS | |

## Table 14
## Intersection Queuing Summary – Near-Term With-Project Conditions

| Intersection | | Number of Lanes, Storage (feet), and Queue Length (feet) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **EBL** | **EBT** | **EBR** | **WBL** | **WBT** | **WBR** | **NBL** | **NBT** | **NBR** | **SBL** | **SBT** | **SBR** |
| Willow/ International | Lanes | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 3 | 1 |
| | Storage | 250 | 920 | 240+ | 50+ | * | 25 | 250 | * | 240+ | 250 | * | 205 |
| | A.M. | 63 | 69 | 45 | 28 | 190 | 0 | 183 | 180 | 0 | 87 | 168 | 10 |
| | P.M. | 29 | 74 | 56 | 40 | 92 | 3 | 91 | 205 | 0 | 71 | 128 | 0 |
| Minnewawa/ International | Lanes | S | 1 | S | S | 1 | S | S | 1 | S | S | 1 | S |
| | Storage | | * | | | * | | | * | | | * | |
| | A.M. | | 23 | | | 0 | | | 33 | | | 0 | |
| | P.M. | | 20 | | | 0 | | | 13 | | | 0 | |
| Willow/ Behymer | Lanes | 1 | 1 | 1 | 1 | 1 | S | 1 | 3 | 1 | 1 | 3 | 1 |
| | Storage | 235 | * | 240+ | 88 | * | | 250 | * | 105 | 250 | * | 205 |
| | A.M. | 79 | 105 | 53 | 34 | 237 | | 163 | 217 | 0 | 74 | 163 | 0 |
| | P.M. | 28 | 84 | 40 | 43 | 160 | | 194 | 188 | 0 | 141 | 187 | 0 |
| Minnewawa/ Behymer | Lanes | S | 1 | S | S | 1 | S | S | 1 | S | S | 1 | S |
| | Storage | | * | | | * | | | * | | | * | |
| | A.M. | | 100 | | | 653 | | | 275 | | | 278 | |
| | P.M. | | 180 | | | 428 | | | 313 | | | 560 | |
| Minnewawa/ Shepherd | Lanes | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Storage | 250 | * | 45 | 250 | * | 200 | 250 | * | 225+ | 255 | * | 25 |
| | A.M. | 179 | 284 | **141** | 241 | 987 | 77 | **299** | 329 | 15 | **294** | 483 | **62** |
| | P.M. | **351** | 521 | 68 | 262 | 1,257 | 130 | **363** | 818 | 114 | **329** | 549 | **51** |
| DeWitt/ Shepherd | Lanes | 1 | 2 | S | 1 | 1 | 1 | | | 1 | | | 1 |
| | Storage | 265 | * | | 265 | * | 225+ | | | 85 | | | 500 |
| | A.M. | 3 | DNS | | 0 | DNS | DNS | | | 3 | | | 28 |
| | P.M. | 8 | DNS | | 0 | DNS | DNS | | | 3 | | | 10 |
| Clovis/ Shepherd | Lanes | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 |
| | Storage | 250 | * | 50 | 250 | * | 255 | 235 | * | 65 | 255 | * | 100 |
| | A.M. | 80 | 278 | **82** | 124 | 392 | 4 | 219 | 77 | 35 | 104 | 181 | 63 |
| | P.M. | 126 | 368 | 73 | 94 | 386 | 44 | **261** | 176 | **96** | 86 | 140 | 55 |
| Clovis/ Site Access | Lanes | | | 1 | | | | 1 | 2 | | | 2 | S |
| | Storage | | | 250± | | | | TBD | 500± | | | * | |
| | A.M. | | | 10 | | | | 3 | DNS | | | DNS | |
| | P.M. | | | 8 | | | | 8 | DNS | | | DNS | |

**Table 15**
**Intersection Queuing Summary – Year 2045 Cumulative With-Project Conditions**

| Intersection | | Number of Lanes, Storage (feet), and Queue Length (feet) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Willow/ International | Lanes | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 3 | 1 |
| | Storage | 250 | 920 | 240+ | 50+ | * | 25 | 250 | * | 240+ | 250 | * | 205 |
| | A.M. | 86 | 80 | 51 | 64 | 421 | 0 | 219 | 216 | 0 | 102 | 179 | 29 |
| | P.M. | 36 | 119 | 55 | 43 | 108 | 9 | 100 | 221 | 0 | 86 | 136 | 0 |
| Minnewawa/ International | Lanes | S | 1 | S | S | 1 | S | S | 1 | S | S | 1 | S |
| | Storage | | * | | | * | | | * | | | * | |
| | A.M. | | 50 | | | 5 | | | 55 | | | 0 | |
| | P.M. | | 215 | | | 3 | | | 18 | | | 0 | |
| Willow/ Behymer | Lanes | 1 | 1 | 1 | 1 | 1 | S | 1 | 3 | 1 | 1 | 3 | 1 |
| | Storage | 235 | * | 240+ | 88 | * | | 250 | * | 105 | 250 | * | 205 |
| | A.M. | 128 | 142 | 70 | **130** | 526 | | 209 | 279 | 0 | 116 | 213 | 0 |
| | P.M. | 31 | 92 | 43 | **154** | 182 | | 202 | 179 | 43 | 177 | 182 | 0 |
| Minnewawa/ Behymer | Lanes | S | 1 | S | S | 1 | S | S | 1 | S | S | 1 | S |
| | Storage | | * | | | * | | | * | | | * | |
| | A.M. | | 133 | | | **>1,000** | | | 283 | | | **958** | |
| | P.M. | | 496 | | | 445 | | | 800 | | | 491 | |
| Minnewawa/ Shepherd | Lanes | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Storage | 250 | * | 45 | 250 | * | 200 | 250 | * | 225+ | 255 | * | 25 |
| | A.M. | **255** | 450 | **405** | **415** | **1,494** | 150 | **482** | 416 | 31 | **583** | **1,497** | 87 |
| | P.M. | **400** | 760 | **170** | **315** | **1,578** | 155 | **641** | **1,204** | 142 | **406** | 878 | 87 |
| DeWitt/ Shepherd | Lanes | 1 | 2 | S | 1 | 1 | 1 | | | 1 | | | 1 |
| | Storage | 265 | * | | 265 | * | 225+ | | | 85 | | | 500 |
| | A.M. | 5 | DNS | | 0 | DNS | DNS | | | 3 | | | 80 |
| | P.M. | 15 | DNS | | 3 | DNS | DNS | | | 5 | | | 35 |
| Clovis/ Shepherd | Lanes | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 |
| | Storage | 250 | * | 50 | 250 | * | 255 | 235 | * | 65 | 255 | * | 100 |
| | A.M. | 84 | 370 | **110** | 184 | 394 | 49 | **268** | 97 | 51 | 123 | 323 | **201** |
| | P.M. | 135 | 448 | **82** | 167 | 437 | 52 | **287** | 350 | **289** | 117 | 167 | 35 |
| Clovis/ Site Access | Lanes | | | 1 | | | | 1 | 2 | | | 2 | S |
| | Storage | | | 250± | | | | TBD | 500± | | | * | |
| | A.M. | | | 15 | | | | 3 | DNS | | | DNS | |
| | P.M. | | | 10 | | | | 10 | DNS | | | DNS | |

## 15.0 ROAD SEGMENT ANALYSES

Road segment levels of service were determined based on procedures outlined in the HCM utilizing tables presented in the 2020 Florida Department of Transportation (FDOT) Quality/Level of Service Handbook (Florida tables). It should be noted that the Florida tables present generalized correlations between traffic volumes and LOS based on the nationally-utilized and accepted HCM; the Florida tables are frequently utilized throughout California for road segment analyses. The Florida tables present LOS criteria based on the type of roadway being analyzed and the regional setting (i.e., urban areas or transitioning areas). Florida Table 8, Generalized Peak Hour Directional Volumes for Florida's Transitioning Areas and Areas Over 5,000 Not In Urbanized Areas, was utilized in the analysis and is presented in Appendix D. The thresholds utilized in the analyses are presented in Table 16. Tables 17 through 20 present the results of the road segment analyses

based on the Florida table. The lane configurations through the near-term conditions are assumed to be the same as existing. For the year 2045 scenario it is assumed that Minnewawa Avenue will have a two-way left-turn lane with one through lane in each direction (essentially a divided road with left-turn lanes).

**Table 16**
**Directional Volume Thresholds for Non-State Signalized Roadway Levels of Service Class I (40 MPH or Higher Posted Speed Limit)**

| Lanes | Configuration | A | B | C | D | E/F |
|---|---|---|---|---|---|---|
| 1 | Undivided with no turn lanes | * | * | ≤639 | 640 – 720 | >720 |
| 1 | Divided with left-turn lanes | * | * | ≤670 | 671 – 756 | >756 |
| 2 | Undivided with left-turn lanes | * | * | ≤1,487 | 1,488 – 1,556 | >1,556 |
| 2 | Divided with turn lanes | * | * | ≤1,566 | 1,567 – 1,638 | >1,638 |

Reference: Florida Department of Transportation Table 8, Generalized Peak Hour Directional Volumes for Florida's Transitioning Areas and Areas Over 5,000 Not In Urbanized Areas (utilizing Non-State Signalized Roadway Adjustments) dated January 2020.

**Table 17**
**Road Segment Analyses - Existing Conditions**

| Road and Segment | A.M. Peak Hour | | | | P.M. Peak Hour | | | |
|---|---|---|---|---|---|---|---|---|
| | NB or EB | | SB or WB | | NB or EB | | SB or WB | |
| | Volume | LOS | Volume | LOS | Volume | LOS | Volume | LOS |
| Behymer Ave between Willow and Minnewawa (one lane undivided with no turn lanes) | 230 | C | 313 | C | 253 | C | 250 | C |
| Minnewawa Avenue between Site Access and Behymer Avenue (one lane undivided with no turn lanes) | 331 | C | 298 | C | 295 | C | 246 | C |

**Table 18**
**Road Segment Analyses - Existing-Plus-Project Conditions**

| Road and Segment | A.M. Peak Hour | | | | P.M. Peak Hour | | | |
|---|---|---|---|---|---|---|---|---|
| | NB or EB | | SB or WB | | NB or EB | | SB or WB | |
| | Volume | LOS | Volume | LOS | Volume | LOS | Volume | LOS |
| Behymer Ave between Willow and Minnewawa (one lane undivided with no turn lanes) | 232 | C | 319 | C | 260 | C | 255 | C |
| Minnewawa Avenue between Site Access and Behymer Avenue (one lane undivided with no turn lanes) | 353 | C | 306 | C | 314 | C | 271 | C |

**Table 19**
**Road Segment Analyses - Near-Term With-Project Conditions**

| Road and Segment | A.M. Peak Hour | | | | P.M. Peak Hour | | | |
|---|---|---|---|---|---|---|---|---|
| | NB or EB | | SB or WB | | NB or EB | | SB or WB | |
| | Volume | LOS | Volume | LOS | Volume | LOS | Volume | LOS |
| Behymer Ave between Willow and Minnewawa (one lane undivided with no turn lanes) | 247 | C | 350 | C | 301 | C | 285 | C |
| Minnewawa Avenue between Site Access and Behymer (one lane undivided with no turn lanes) | 396 | C | 345 | C | 356 | C | 331 | C |

**Table 20**
**Road Segment Analyses - Year 2045 Cumulative With-Project Conditions**

| Road and Segment | A.M. Peak Hour | | | | P.M. Peak Hour | | | |
|---|---|---|---|---|---|---|---|---|
| | NB or EB | | SB or WB | | NB or EB | | SB or WB | |
| | Volume | LOS | Volume | LOS | Volume | LOS | Volume | LOS |
| Behymer Ave between Willow and Minnewawa (one lane undivided with no turn lanes) | 289 | C | 683 | D | 500 | C | 414 | C |
| Minnewawa Avenue between Site Access and Behymer Avenue (one lane divided with left-turn lanes) | 438 | C | 753 | D | 626 | C | 401 | C |

## 16.0 DISCUSSION

### 16.1 Existing Conditions

The results of the analyses indicate that the study intersections are currently operating at acceptable levels of service with calculated 95$^{th}$-percentile queues contained within the available storage capacity, with the exception that the intersection of Minnewawa and Behymer Avenues (all-way stop control) currently operates at LOS E during the a.m. peak hour and LOS F during the p.m. peak hour.

The study road segments are currently operating at acceptable levels of service.

### 16.2 Existing-Plus-Project Conditions

The existing-plus-Project-conditions analyses represent conditions that would occur after construction of the Project if none of the pending and approved projects were constructed. This scenario isolates the specific effects of the Project.

The results of the analyses indicate that the study intersections are expected to continue to operate at levels of service similar to the existing conditions. The Project will not cause any intersections currently operating at acceptable LOS to operate worse than the target LOS, and the calculated 95$^{th}$-percentile queues are within the available storage capacity.

The Project is expected to increase delays at the intersection of Minnewawa and Behymer Avenues, which operates at LOS E during the a.m. peak hour and LOS F during the p.m. peak hour.

The study road segments are expected to continue to operate at acceptable levels of service.

The proposed median break in Clovis Avenue at the proposed site access roadway is expected to operate at acceptable LOS with reasonable queues. The median break will serve to distribute Project trips such that drivers will be able to select the most convenient route. Therefore, it is recommended that the median break and left turn into the Project site be allowed.

### 16.2.1 Existing-Plus-Project Improved Conditions

In order for the intersection of Minnewawa and Behymer Avenues to operate at acceptable LOS, the intersection may be signalized. At a minimum, dedicated left-turn lanes with protected left-turn phasing would be required on the northbound and southbound approaches. With signalization, the intersection is expected to operate at LOS B during the a.m. and p.m. peak hours. The improved conditions are presented in Tables 21 and 22. The intersection analysis sheets for the improved conditions are presented in Appendix E.

**Table 21**
**Intersection LOS Summary – Improved Existing-Plus-Project Conditions**

| Intersection | Control | A.M. Peak Hour | | P.M. Peak Hour | |
|---|---|---|---|---|---|
| | | Delay (sec) | LOS | Delay (sec) | LOS |
| Minnewawa / Behymer | Signals | 15.5 | B | 16.1 | B |

**Table 22**
**Intersection Queuing Summary – Improved Existing-Plus-Project Conditions**

| Intersection | | Number of Lanes, Storage (feet), and Queue Length (feet) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Minnewawa/ Behymer | Lanes | S | 1 | S | S | 1 | S | 1 | 1 | S | 1 | 1 | S |
| | Storage | | * | | | * | | TBD | * | | TBD | * | |
| | A.M. | | 100 | | | 242 | | 88 | 127 | | 105 | 117 | |
| | P.M. | | 131 | | | 217 | | 63 | 134 | | 138 | 112 | |

TBD: To be determined based on Year 2045 analyses. S: Shared movement
*: Storage length exceeds 1,000 feet

AGENDA ITEM NO. 16.

## 16.3 Near-Term With-Project Conditions

The near-term with-Project conditions analyses represent conditions that are expected after construction of the Project and the known pending and approved projects. This scenario isolates the near-term cumulative effects of the Project and other known projects.

The results of the analyses indicate that the study intersections are expected to continue to operate at acceptable levels of service, with the following exceptions:

- Minnewawa Avenue / International Avenue: LOS E on the westbound approach during the a.m. peak hour with two-way stop control.
- Minnewawa Avenue / Behymer Avenue: LOS F during the a.m. and p.m. peak hours with all-way stop control.
- Minnewawa Avenue / Shepherd Avenue: LOS E during the a.m. peak hour and LOS F during the p.m. peak hour with traffic signals.

Calculated 95$^{th}$-percentile queues are contained within the existing storage capacity, with the following exceptions:

- Minnewawa Avenue / Shepherd Avenue: left-turn lanes on the eastbound, northbound, and southbound approaches, right-turn lanes on the eastbound and southbound approaches.
- Clovis Avenue / Shepherd Avenue: left-turn lane on the northbound approach, right-turn lanes on the eastbound and northbound approaches.

The study road segments are expected to continue to operate at acceptable levels of service.

The proposed median break in Clovis Avenue at the proposed site access roadway is expected to operate at acceptable LOS with reasonable queues. The median break will serve to distribute Project trips such that drivers will be able to select the most convenient route. Therefore, it is recommended that the median break and left turn into the Project site be allowed.

### 16.3.1 Near-Term With-Project Improved Conditions

In order for the intersection of Minnewawa and International Avenues to operate at acceptable LOS, all-way stop control may be installed. With all-way stop control, the intersection is expected to operate at LOS C during the a.m. peak hour and LOS B during the p.m. peak hour. The improved conditions are presented in Tables 23 and 24. The intersection analysis sheets for the improved conditions are presented in Appendix E.

In order for the intersection of Minnewawa and Behymer Avenues to operate at acceptable LOS, the intersection may be signalized. At a minimum, dedicated left-turn lanes with protected left-turn phasing would be required on the northbound and southbound approaches. With signalization, the intersection is expected to operate at LOS B during the a.m. and p.m. peak hours. The improved conditions are presented in Tables 23 and 24. The intersection analysis sheets for the improved conditions are presented in Appendix E.

AGENDA ITEM NO. 16.

In order for the intersection of Minnewawa and Shepherd Avenues to operate at acceptable LOS, the intersection would require modification from the existing conditions as follows:

Eastbound approach: maintain existing configuration

Westbound approach: add a second through lane; the right turn may be shared with the through lane.

Northbound approach: add a second through lane with a dedicated right-turn lane.

Southbound approach: add a second through lane with a dedicated right-turn lane.

With widening, the intersection of Minnewawa and Shepherd Avenues is expected to operate at LOS C during the a.m. peak hour and LOS D during the p.m. peak hour. The improved conditions are presented in Tables 23 and 24. The intersection analysis sheets for the improved conditions are presented in Appendix E.

In order to better accommodate queues at the intersection of Clovis and Shepherd Avenues, the intersection striping may be modified to open the second left-turn lane on the northbound approach. With the modification, the intersection is expected to operate at LOS C during the a.m. and p.m. peak hours. The improved conditions are presented in Tables 23 and 24. The intersection analysis sheets for the improved conditions are presented in Appendix E.

**Table 23**
**Intersection LOS Summary – Improved Near-Term With-Project Conditions**

| Intersection | Control | A.M. Peak Hour | | P.M. Peak Hour | |
|---|---|---|---|---|---|
| | | Delay (sec) | LOS | Delay (sec) | LOS |
| Minnewawa / International | All-way stop | 23.2 | C | 14.8 | B |
| Minnewawa / Behymer | Signals | 19.8 | B | 19.4 | B |
| Minnewawa / Shepherd | Signals | 28.5 | C | 40.1 | D |
| Clovis / Shepherd | Signals | 21.4 | C | 22.9 | C |

**Table 24**
**Intersection Queuing Summary – Improved Near-Term With-Project Conditions**

| Intersection | | Number of Lanes, Storage (feet), and Queue Length (feet) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Minnewawa/ International | Lanes | S | 1 | S | S | 1 | S | S | 1 | S | S | 1 | S |
| | Storage | | * | | | * | | | * | | | * | |
| | A.M. | | 18 | | | 0 | | | 265 | | | 65 | |
| | P.M. | | 18 | | | 0 | | | 138 | | | 65 | |
| Minnewawa/ Behymer | Lanes | S | 1 | S | S | 1 | S | 1 | 1 | S | 1 | 1 | S |
| | Storage | | * | | | * | | TBD | * | | TBD | * | |
| | A.M. | | 106 | | | 336 | | 105 | 143 | | 136 | 131 | |
| | P.M. | | 151 | | | 267 | | 64 | 155 | | 168 | 137 | |
| Minnewawa/ Shepherd | Lanes | 1 | 2 | 1 | 1 | 2 | S | 1 | 2 | 1 | 1 | 2 | 1 |
| | Storage | 250 | * | 45 | 250 | * | | 250 | * | TBD | 255 | * | TBD |
| | A.M. | 135 | 255 | 112 | 243 | 452 | | 224 | 106 | 2 | 237 | 144 | 38 |
| | P.M. | 224 | 367 | 63 | 212 | 462 | | 253 | 214 | 50 | 210 | 155 | 54 |
| Clovis/ Shepherd | Lanes | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 |
| | Storage | 250 | * | 50 | 250 | * | 255 | 235 | * | 65 | 255 | * | 100 |
| | A.M. | 70 | 233 | 83 | 107 | 324 | 14 | 100 | 77 | 30 | 90 | 154 | 55 |
| | P.M. | 124 | 331 | 65 | 93 | 356 | 41 | 133 | 195 | 120 | 84 | 135 | 53 |

TBD: To be determined based on Year 2045 analyses. S: Shared movement
*: Storage length exceeds 1,000 feet

## 16.4 Cumulative Year 2045 With-Project Conditions

The year 2045 cumulative with-Project conditions analyses are based on the assumption that the Project has been constructed, the pending and approved projects have been constructed, and that 20 years of growth has occurred in the Clovis, Fresno, and Fresno County region as incorporated into the adopted Fresno County travel model.

The results of the analyses indicate that the study intersections are expected to continue to operate at acceptable levels of service, with the following exceptions:

- Minnewawa Avenue / International Avenue: LOS F on the westbound approach during the a.m. peak hour and LOS F on the eastbound approach during the p.m. peak hour with two-way stop control.
- Minnewawa Avenue / Behymer Avenue: LOS F during the a.m. and p.m. peak hours with all-way stop control.
- Minnewawa Avenue / Shepherd Avenue: LOS F during the a.m. and p.m. peak hours with traffic signals.
- DeWitt Avenue / Shepherd Avenue: LOS E on the southbound approach during the a.m. and p.m. peak hours with two-way stop control.

Calculated 95th-percentile queues are contained within the existing storage capacity, with the following exceptions:

- Willow Avenue / Behymer Avenue: left-turn lane on the westbound approach.
- Minnewawa Avenue / Behymer Avenue: excessive queues on the westbound and southbound approaches.
- Minnewawa Avenue / Shepherd Avenue: excessive queues on all legs corresponding to LOS F at the intersection.
- Clovis Avenue / Shepherd Avenue: left-turn lanes on the westbound and northbound approaches, right-turn lanes on the eastbound, northbound, and southbound approaches.

The study road segments are expected to continue to operate at acceptable levels of service.

The proposed median break in Clovis Avenue at the proposed site access roadway is expected to operate at acceptable LOS with reasonable queues. The median break will serve to distribute Project trips such that drivers will be able to select the most convenient route. Therefore, it is recommended that the median break and left turn into the Project site be allowed.

### 16.4.1 Cumulative Year 2045 With-Project Improved Conditions

In order for the intersection of Minnewawa and International Avenues to operate at acceptable LOS, the intersection may be signalized. At a minimum, dedicated left-turn lanes with protected left-turn phasing would be required on the northbound and southbound approaches. With signalization, the intersection is expected to operate at LOS B during the a.m. and p.m. peak hours. The improved conditions are presented in Tables 25 and 26. The intersection analysis sheets for the improved conditions are presented in Appendix E.

In order for the intersection of Minnewawa and Behymer Avenues to operate at acceptable LOS, the intersection may be signalized. At a minimum, dedicated left-turn lanes with protected left-turn phasing would be required on all four approaches and a dedicated right-turn lane would be required on the westbound approach. With signalization, the intersection is expected to operate at LOS D during the a.m. and p.m. peak hours. The improved conditions are presented in Tables 25 and 26. The intersection analysis sheets for the improved conditions are presented in Appendix E.

In order for the intersection of Minnewawa and Shepherd Avenues to operate at acceptable LOS, the intersection would require modification from the existing conditions as follows:

Eastbound approach: maintain existing configuration

Westbound approach: add a second through lane and a dedicated right-turn lane.

Northbound approach: add a second through lane with a dedicated right-turn lane.

Southbound approach: add a second through lane with a dedicated right-turn lane.

With the recommended widening, each approach to the intersection of Minnewawa and Shepherd Avenues would have one left-turn lane, two through lanes, and one right-turn lane. The intersection is expected to operate at LOS D during the a.m. and p.m. peak hours. The

improved conditions are presented in Tables 25 and 26. The intersection analysis sheets for the improved conditions are presented in Appendix E. It should be noted that long queues are calculated in the left-turn lanes on the northbound and southbound approaches. The City may consider lengthening the turn lanes or modifying the intersection to provide two left-turn lanes on the approaches in the future.

In order to better accommodate queues at the intersection of Clovis and Shepherd Avenues, the intersection striping may be modified to open the second left-turn lane on the northbound approach. With the modification, the intersection is expected to operate at LOS C during the a.m. and p.m. peak hours. The improved conditions are presented in Tables 25 and 26. The intersection analysis sheets for the improved conditions are presented in Appendix E.

No improvements are recommended for the intersection of DeWitt Avenue and Shepherd Avenues because the LOS E is experienced by vehicles that are allowed only to make right turns and 95$^{th}$-percentile queues are expected to be only three to four vehicles long. The intersection is not a candidate for signalization and it is recommended that it be maintained in its existing configuration.

**Table 25**
**Intersection LOS Summary – Improved Year 2045 With-Project Conditions**

| Intersection | Control | A.M. Peak Hour | | P.M. Peak Hour | |
|---|---|---|---|---|---|
| | | Delay (sec) | LOS | Delay (sec) | LOS |
| Minnewawa / International | Signals | 16.0 | B | 14.7 | B |
| Minnewawa / Behymer | Signals | 37.7 | D | 39.3 | D |
| Minnewawa / Shepherd | Signals | 49.6 | D | 52.7 | D |
| Clovis / Shepherd | Signals | 28.2 | C | 33.6 | C |

**Table 26**
**Intersection Queuing Summary – Improved Year 2045 With-Project Conditions**

| Intersection | | Number of Lanes, Storage (feet), and Queue Length (feet) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Minnewawa/ International | Lanes | S | 1 | S | S | 1 | S | 1 | 1 | S | 1 | 1 | S |
| | Storage | | * | | | * | | TBD | * | | TBD | * | |
| | A.M. | | 53 | | | 8 | | 344 | 102 | | 5 | 260 | |
| | P.M. | | 74 | | | 7 | | 145 | 189 | | 4 | 237 | |
| Minnewawa/ Behymer | Lanes | 1 | 1 | S | 1 | 1 | 1 | 1 | 1 | S | 1 | 1 | S |
| | Storage | TBD | * | | TBD | * | TBD | TBD | * | | TBD | * | |
| | A.M. | 10 | 213 | | 75 | 512 | 65 | 187 | 233 | | 189 | 566 | |
| | P.M. | 28 | 498 | | 38 | 180 | 55 | 181 | 487 | | 267 | 222 | |
| Minnewawa/ Shepherd | Lanes | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| | Storage | 250 | * | 45 | 250 | * | TBD | 250 | * | TBD | 255 | * | TBD |
| | A.M. | 152 | 339 | 225 | 279 | 372 | 49 | 269 | 132 | 0 | 386 | 413 | 38 |
| | P.M. | 251 | 577 | 98 | 237 | 433 | 62 | 400 | 336 | 53 | 259 | 273 | 42 |
| Clovis/ Shepherd | Lanes | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 |
| | Storage | 250 | * | 50 | 250 | * | 255 | 235 | * | 65 | 255 | * | 100 |
| | A.M. | 81 | 356 | 132 | 180 | 375 | 47 | 125 | 104 | 54 | 123 | 311 | 198 |
| | P.M. | 135 | 448 | 82 | 167 | 437 | 52 | 137 | 350 | 289 | 117 | 151 | 58 |

TBD: To be designed based on City standards and 95$^{th}$-percentile queues. S: Shared movement
*: Storage length exceeds 1,000 feet

## 17.0 CONCLUSIONS AND RECOMMENDATIONS

Standard traffic engineering principles and methods were employed to establish the existing conditions, to estimate the number of trips expected to be generated by the Project, and to analyze the traffic conditions that are expected to occur in the future. The conclusions of the study are summarized in the following sections.

### Trip Generation

The Project is expected to generate approximately 3,650 vehicle trips per day (1,825 trips entering the site and 1,825 trips exiting the site). Peak-hour traffic volumes are expected to be on the order of 271 trips during the a.m. peak hour and 364 trips during the p.m. peak hour.

### CEQA Impact Analysis (VMT)

Project-specific traffic modeling indicates a calculated Project VMT of 16.6 VMT per capita, which is greater than the threshold of 14.1 VMT per capita. Therefore, the Project would create a significant transportation impact.

The Project will implement feasible mitigation measures such as constructing sidewalk and trails. These Project design features can help offset a portion of the VMT impact of the Project but will not reduce the impact to less than significant. Therefore, the Project will have a significant and unavoidable transportation impact under CEQA.

It is recommended that the proposed Project, consistent with the General Plan, tier its environmental review from the General Plan SEIR, which has disclosed the VMT impacts of land use development consistent with the General Plan. Therefore, the Project's significant transportation impact does not need to be disclosed in a Project-specific EIR.

### Existing Conditions

The study intersections are currently operating at acceptable levels of service with calculated 95$^{th}$-percentile queues contained within the available storage capacity, with the exception that the intersection of Minnewawa and Behymer Avenues (all-way stop control) currently operates at LOS E during the a.m. peak hour and LOS F during the p.m. peak hour. The study road segments are currently operating at acceptable levels of service.

### Existing-Plus-Project Conditions

The existing-plus-Project-conditions analyses represent conditions that would occur after construction of the Project if none of the pending and approved projects were constructed. This scenario isolates the specific effects of the Project. The study intersections and road segments are expected to continue to operate at levels of service similar to the existing conditions. The Project will not cause any intersections currently operating at acceptable LOS to operate worse than the target LOS, and the calculated 95$^{th}$-percentile queues are within the available storage capacity.

The Project is expected to increase delays at the intersection of Minnewawa and Behymer Avenues, which operates at LOS E during the a.m. peak hour and LOS F during the p.m. peak hour.

Existing-Plus-Project Improved Conditions

In order for the intersection of Minnewawa and Behymer Avenues to operate at acceptable LOS, the intersection may be signalized. At a minimum, dedicated left-turn lanes with protected left-turn phasing would be required on the northbound and southbound approaches. With signalization, the intersection is expected to operate at LOS B during the a.m. and p.m. peak hours.

## Near-Term With-Project Conditions

The near-term with-Project conditions analyses represent conditions that are expected after construction of the Project and the known pending and approved projects. This scenario isolates the near-term cumulative effects of the Project and other known projects. The study intersections and road segments are expected to continue to operate at acceptable levels of service, with the following exceptions:

- Minnewawa Avenue / International Avenue: LOS E on the westbound approach during the a.m. peak hour with two-way stop control.
- Minnewawa Avenue / Behymer Avenue: LOS E during the a.m. and p.m. peak hours with all-way stop control.
- Minnewawa Avenue / Shepherd Avenue: LOS E during the a.m. peak hour and LOS F during the p.m. peak hour with traffic signals.

Calculated 95$^{th}$-percentile queues are contained within the existing storage capacity, with the following exceptions:

- Minnewawa Avenue / Shepherd Avenue: left-turn lanes on the eastbound, northbound, and southbound approaches, right-turn lanes on the eastbound and southbound approaches.
- Clovis Avenue / Shepherd Avenue: left-turn lane on the northbound approach, right-turn lanes on the eastbound and northbound approaches.

Near-Term With-Project Improved Conditions

In order for the intersection of Minnewawa and International Avenues to operate at acceptable LOS, all-way stop control may be installed. With all-way stop control, the intersection is expected to operate at LOS C during the a.m. peak hour and LOS B during the p.m. peak hour.

In order for the intersection of Minnewawa and Behymer Avenues to operate at acceptable LOS, the intersection may be signalized. At a minimum, dedicated left-turn lanes with protected left-turn phasing would be required on the northbound and southbound approaches. With signalization, the intersection is expected to operate at LOS B during the a.m. and p.m. peak hours.

In order for the intersection of Minnewawa and Shepherd Avenues to operate at acceptable LOS, the intersection would require modification from the existing conditions as follows:

Eastbound approach: maintain existing configuration

Westbound approach: add a second through lane; the right turn may be shared with the through lane.

Northbound approach: add a second through lane with a dedicated right-turn lane.

Southbound approach: add a second through lane with a dedicated right-turn lane.

With widening, the intersection of Minnewawa and Shepherd Avenues is expected to operate at LOS C during the a.m. peak hour and LOS D during the p.m. peak hour.

In order to better accommodate queues at the intersection of Clovis and Shepherd Avenues, the intersection striping may be modified to open the second left-turn lane on the northbound approach. With the modification, the intersection is expected to operate at LOS C during the a.m. and p.m. peak hours.

## Cumulative Year 2045 With-Project Conditions

The year 2045 cumulative with-Project conditions analyses are based on the assumption that the Project has been constructed, the pending and approved projects have been constructed, and that 20 years of growth has occurred in the Clovis, Fresno, and Fresno County region as incorporated into the adopted Fresno County travel model. The study intersections and road segments are expected to continue to operate at acceptable levels of service, with the following exceptions:

- Minnewawa Avenue / International Avenue: LOS F on the westbound approach during the a.m. peak hour and LOS F on the eastbound approach during the p.m. peak hour with two-way stop control.
- Minnewawa Avenue / Behymer Avenue: LOS F during the a.m. and p.m. peak hours with all-way stop control.
- Minnewawa Avenue / Shepherd Avenue: LOS F during the a.m. and p.m. peak hours with traffic signals.
- DeWitt Avenue / Shepherd Avenue: LOS E on the southbound approach during the a.m. and p.m. peak hours with two-way stop control.

Calculated 95th-percentile queues are contained within the existing storage capacity, with the following exceptions:

- Willow Avenue / Behymer Avenue: left-turn lane on the westbound approach.
- Minnewawa Avenue / Behymer Avenue: excessive queues on the westbound and southbound approaches.
- Minnewawa Avenue / Shepherd Avenue: excessive queues on all legs corresponding to LOS F at the intersection.
- Clovis Avenue / Shepherd Avenue: left-turn lanes on the westbound and northbound approaches, right-turn lanes on the eastbound, northbound, and southbound approaches.

Cumulative Year 2045 With-Project Improved Conditions

In order for the intersection of Minnewawa and International Avenues to operate at acceptable LOS, the intersection may be signalized. At a minimum, dedicated left-turn lanes with protected left-turn phasing would be required on the northbound and southbound approaches. With signalization, the intersection is expected to operate at LOS B during the a.m. and p.m. peak hours.

In order for the intersection of Minnewawa and Behymer Avenues to operate at acceptable LOS, the intersection may be signalized. At a minimum, dedicated left-turn lanes with protected left-turn phasing would be required on all four approaches and a dedicated right-turn lane would be required on the westbound approach. With signalization, the intersection is expected to operate at LOS D during the a.m. and p.m. peak hours.

In order for the intersection of Minnewawa and Shepherd Avenues to operate at acceptable LOS, the intersection would require modification from the existing conditions as follows:

Eastbound approach: maintain existing configuration

Westbound approach: add a second through lane and a dedicated right-turn lane.

Northbound approach: add a second through lane with a dedicated right-turn lane.

Southbound approach: add a second through lane with a dedicated right-turn lane.

With the recommended widening, each approach to the intersection of Minnewawa and Shepherd Avenues would have one left-turn lane, two through lanes, and one right-turn lane. The intersection is expected to operate at LOS D during the a.m. and p.m. peak hours. It should be noted that long queues are calculated in the left-turn lanes on the northbound and southbound approaches. The City may consider lengthening the turn lanes or modifying the intersection to provide two left-turn lanes on the approaches in the future.

In order to better accommodate queues at the intersection of Clovis and Shepherd Avenues, the intersection striping may be modified to open the second left-turn lane on the northbound approach. With the modification, the intersection is expected to operate at LOS C during the a.m. and p.m. peak hours.

No improvements are recommended for the intersection of DeWitt Avenue and Shepherd Avenues because the LOS E is experienced by vehicles that are allowed only to make right

turns and 95th-percentile queues are expected to be only three to four vehicles long. The intersection is not a candidate for signalization and it is recommended that it be maintained in its existing configuration.

The proposed median break in Clovis Avenue at the proposed site access roadway is expected to operate at acceptable LOS with reasonable queues. The median break will serve to distribute Project trips such that drivers will be able to select the most convenient route. Therefore, it is recommended that the median break and left turn into the Project site be allowed.

Thank you for the opportunity to perform this Transportation Impact Analysis. Please feel free to contact me if you have any questions.

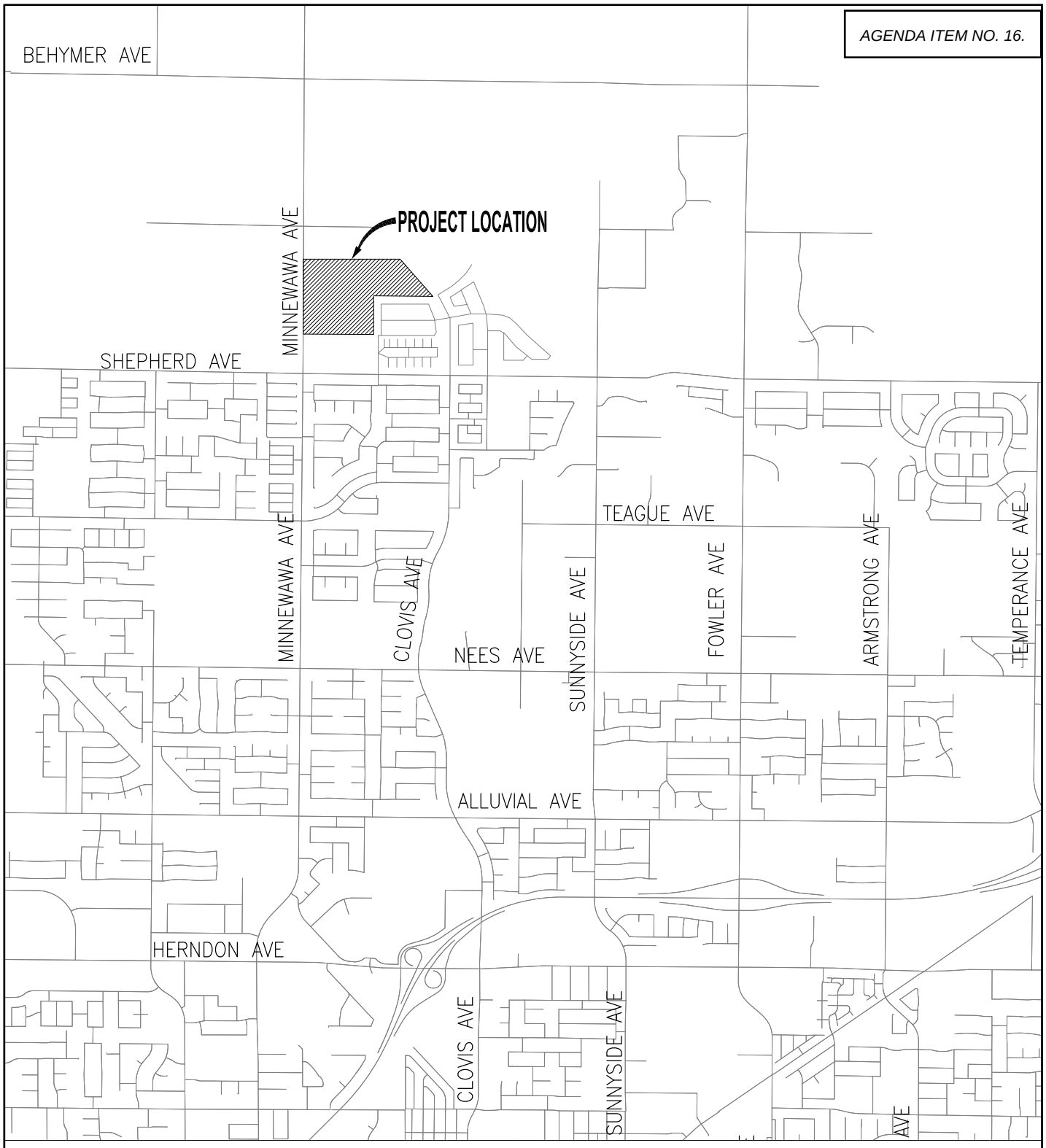
**PETERS ENGINEERING GROUP**

John Rowland, PE, TE




Attachments: Figures 1 through 9
Appendix A - Traffic Modeling
Appendix B - Traffic Count Data Sheets
Appendix C - Intersection Analyses
Appendix D - Florida Table
Appendix E - Improved Intersection Analyses

# FIGURES




Proposed Tract 6375
Clovis, California

LEGEND

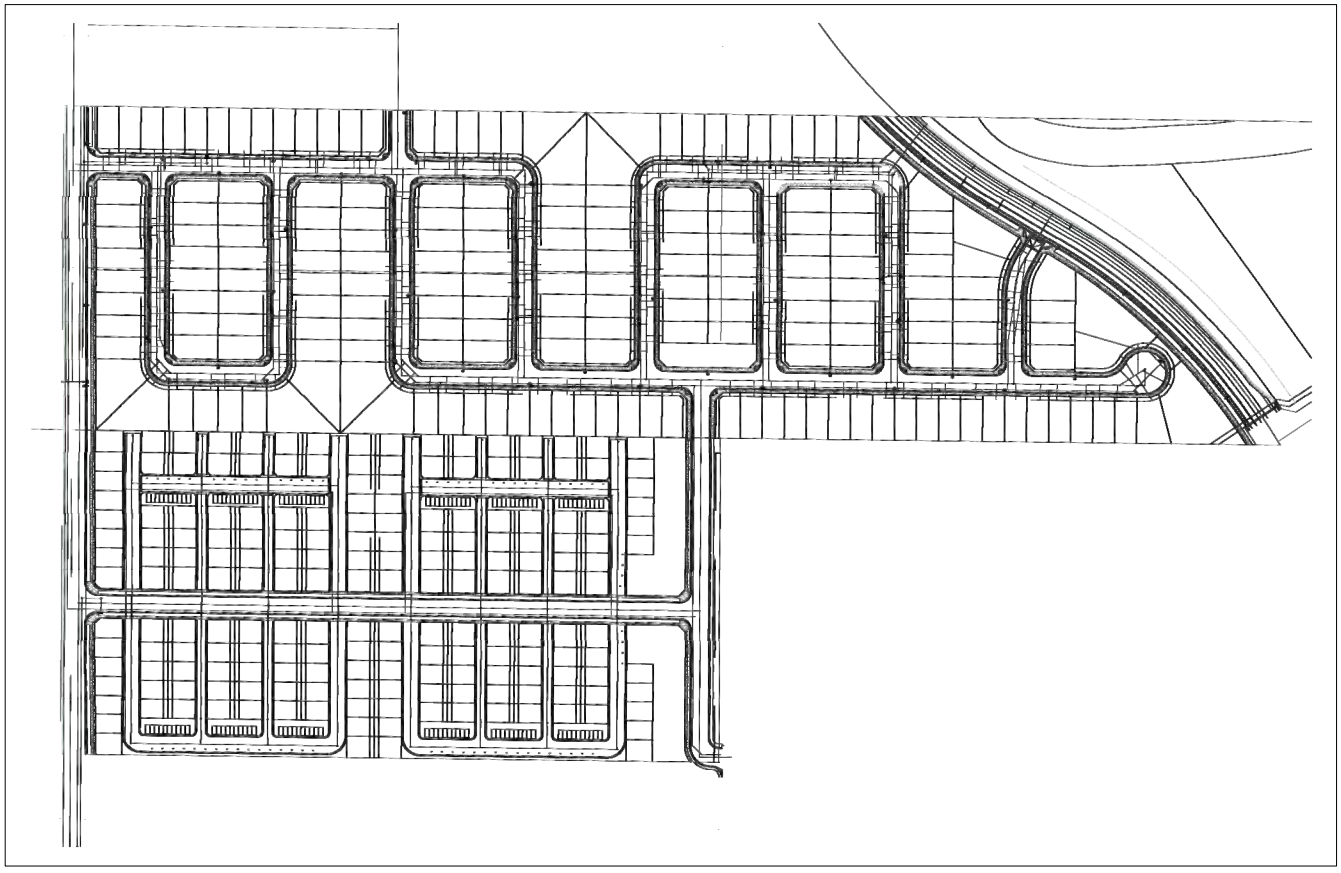
PROJECT SITE

VICINITY MAP

No. 2322

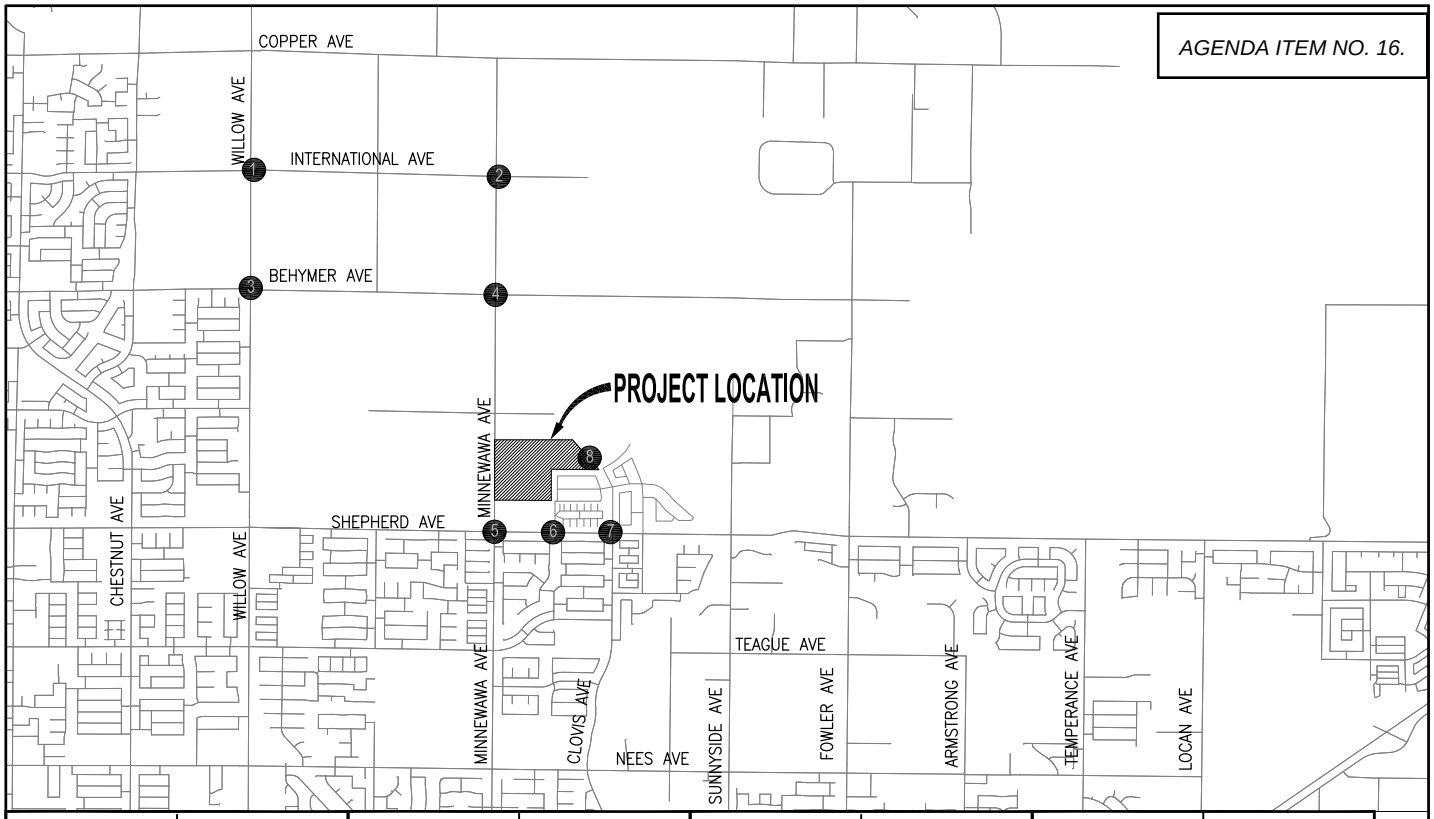
PETERS ENGINEERING GROUP

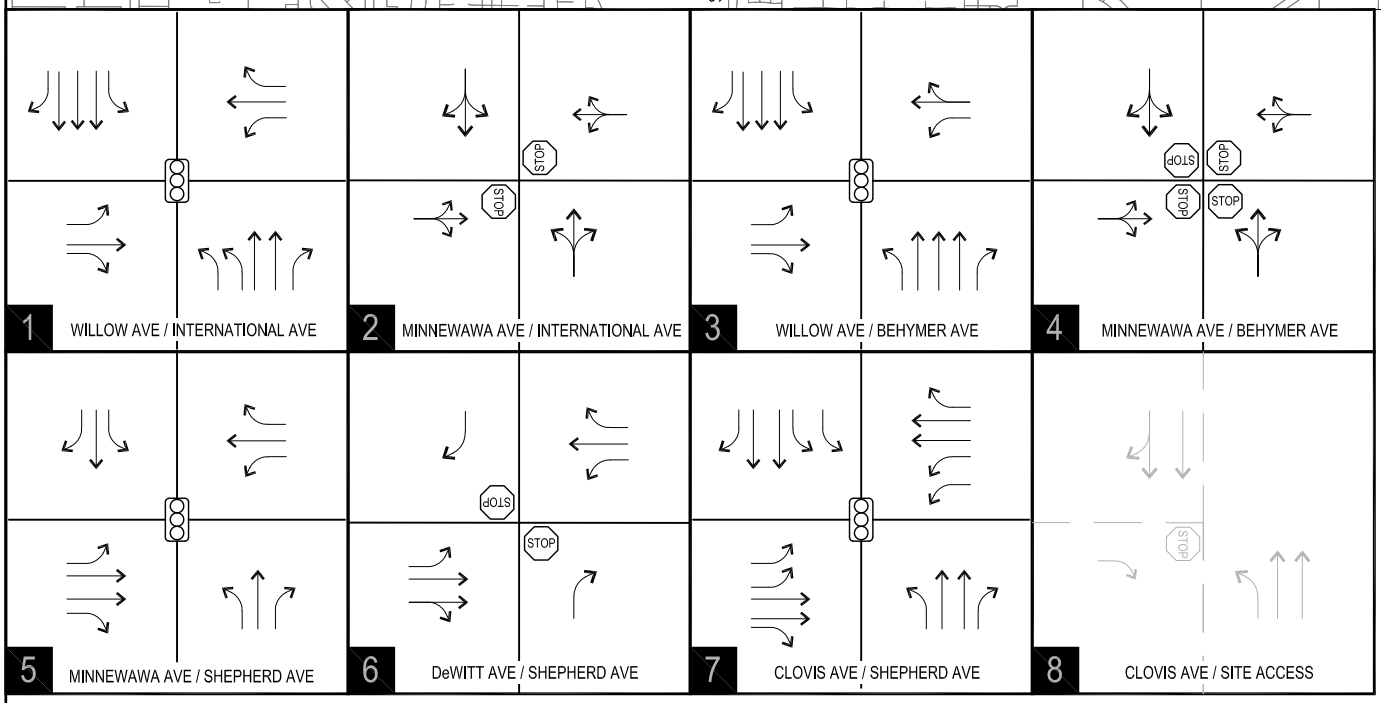
Figure 1



Proposed Tract 6375
Clovis, California

SITE PLAN




LEGEND

- XX STUDY AREA INTERSECTIONS
- PROJECT SITE
- SIGNALIZED INTERSECTION
- STOP STOP SIGN
- DIRECTION OF TRAVEL

Proposed Tract 6375
Clovis, California

# EXISTING LANE CONFIGURATIONS AND INTERSECTION CONTROL

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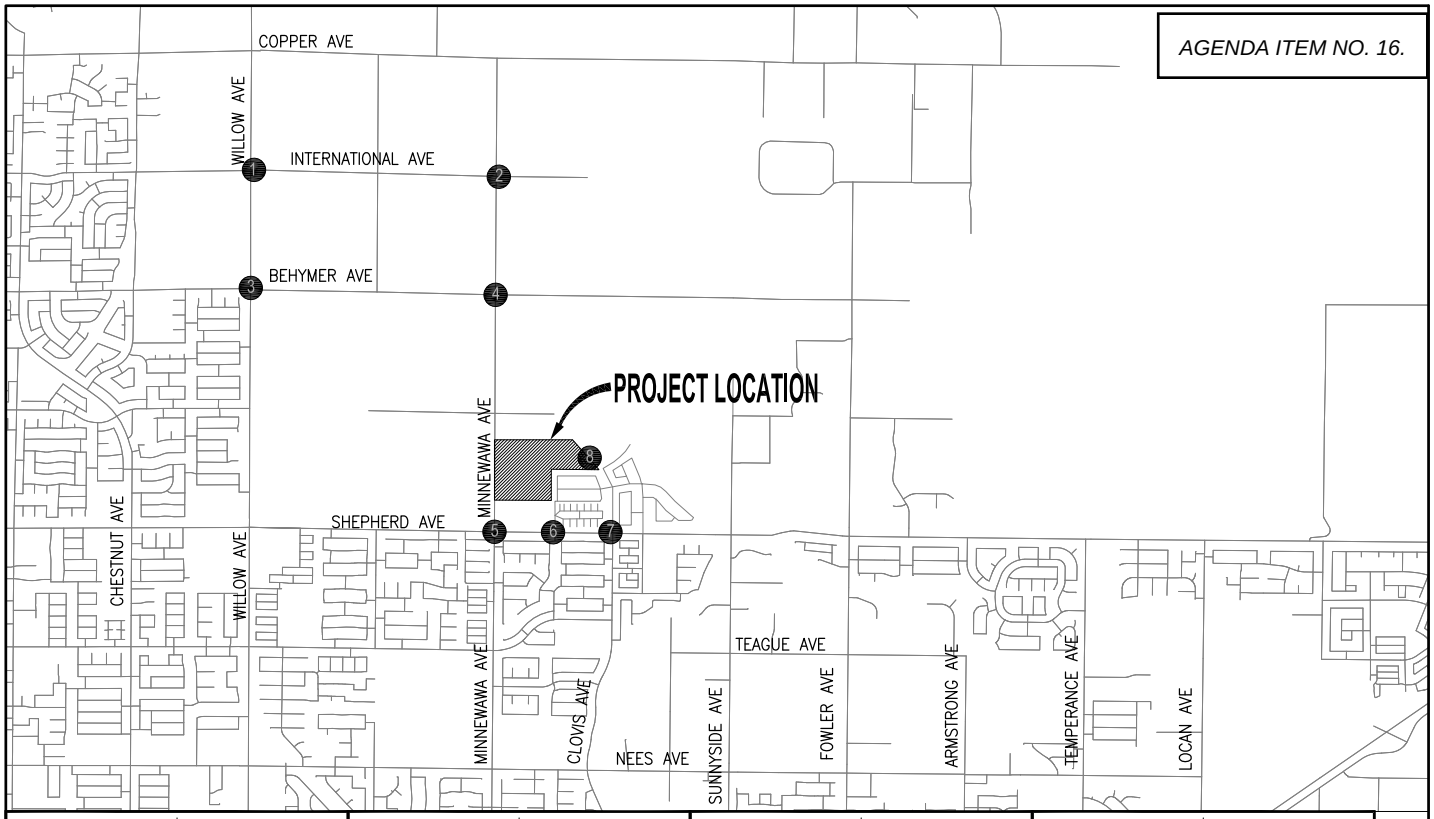
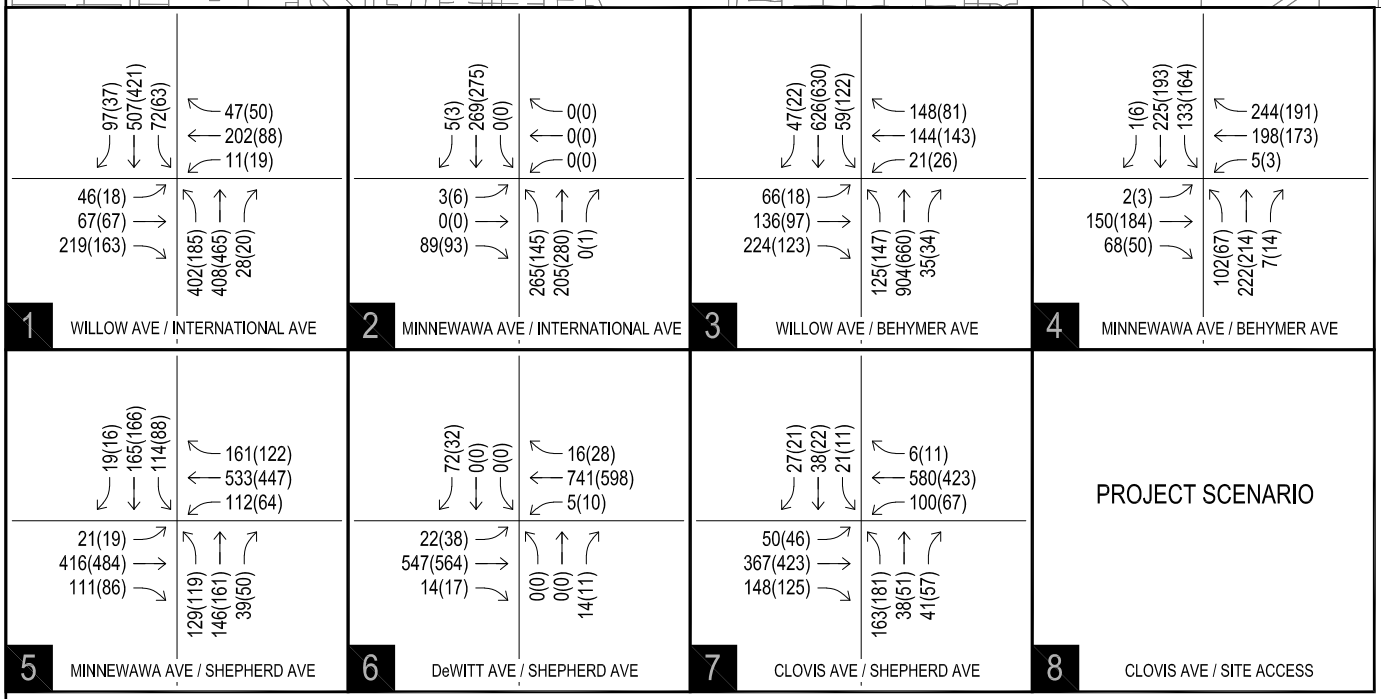


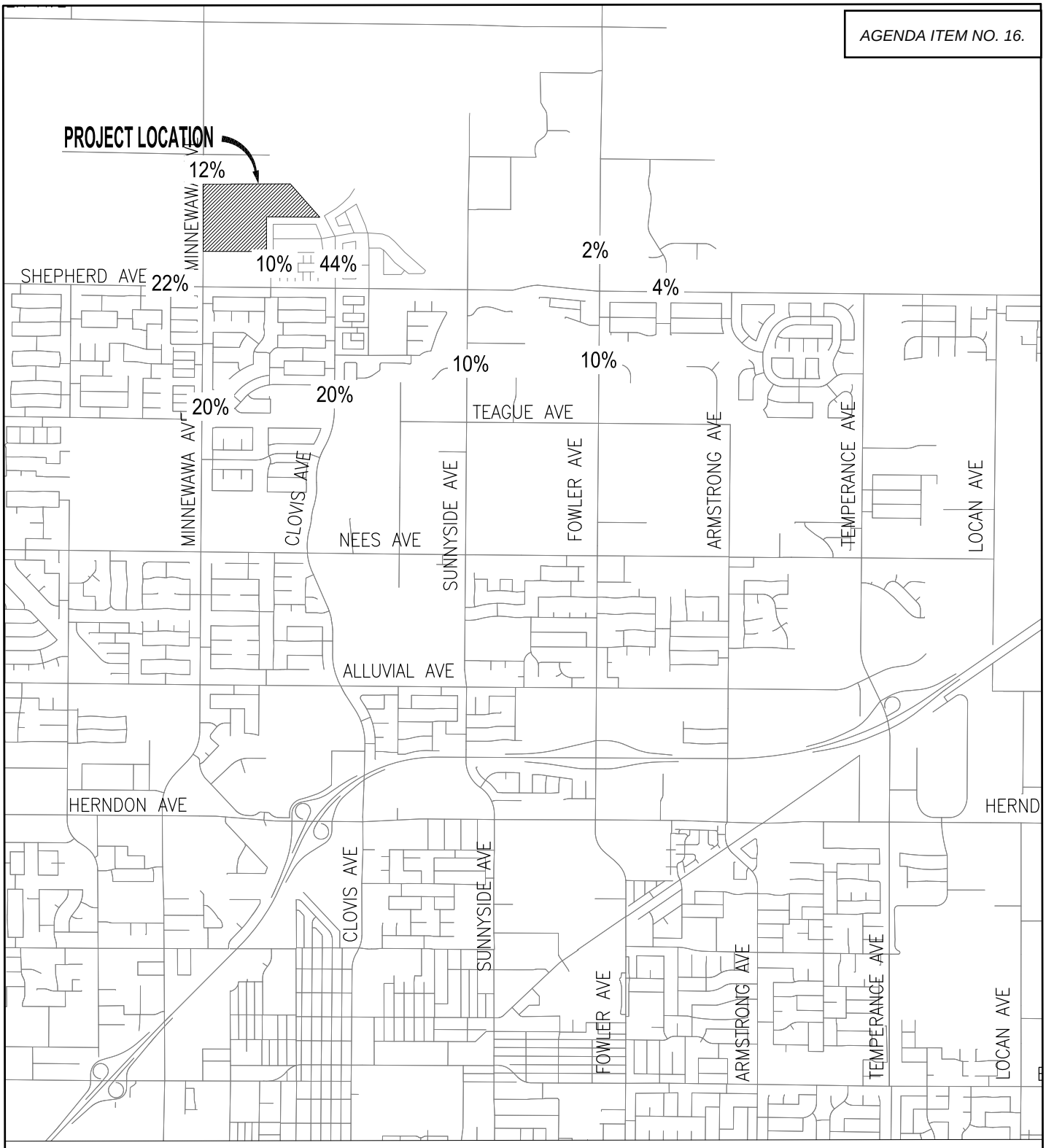




LEGEND

| | |
|---|---|
| X | STUDY AREA INTERSECTIONS |
| XX (YY) | AM (PM) PEAK HOUR VOLUMES |
| | PROJECT SITE |

Proposed Tract 6375
Clovis, California

# EXISTING PEAK-HOUR TRAFFIC VOLUMES




Proposed Tract 6375
Clovis, California

LEGEND

PROJECT SITE

# PEAK HOUR PROJECT TRAFFIC TRIP DISTRIBUTION PERCENTAGES

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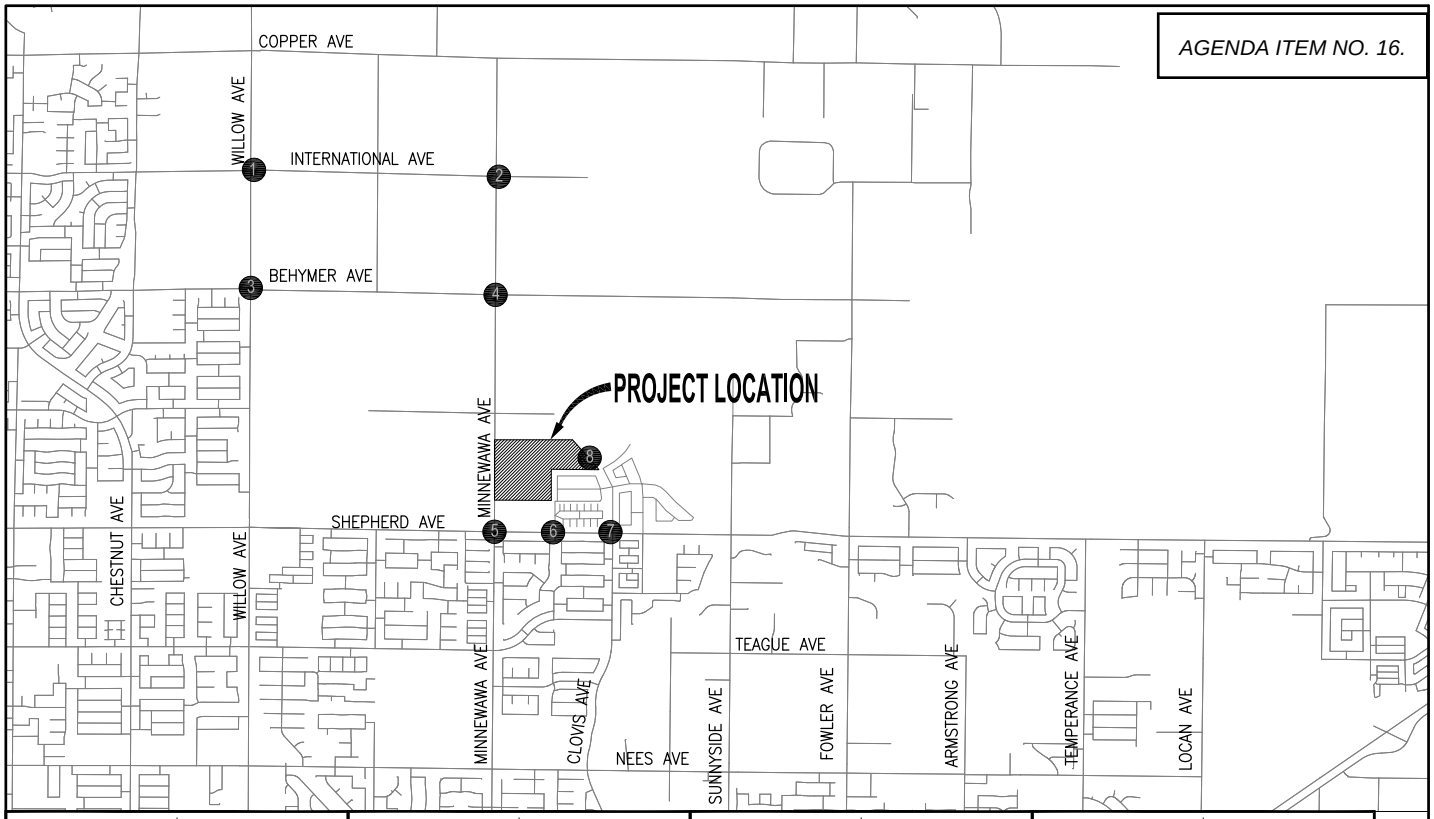
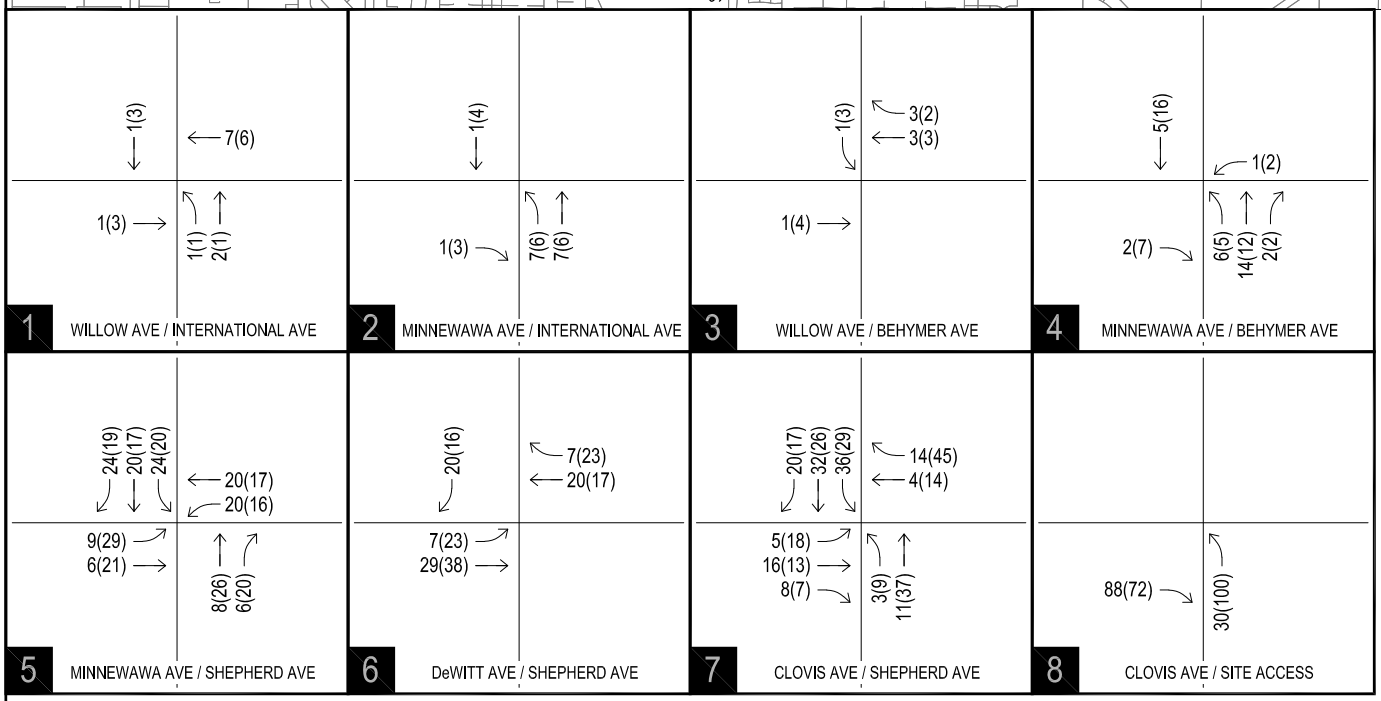


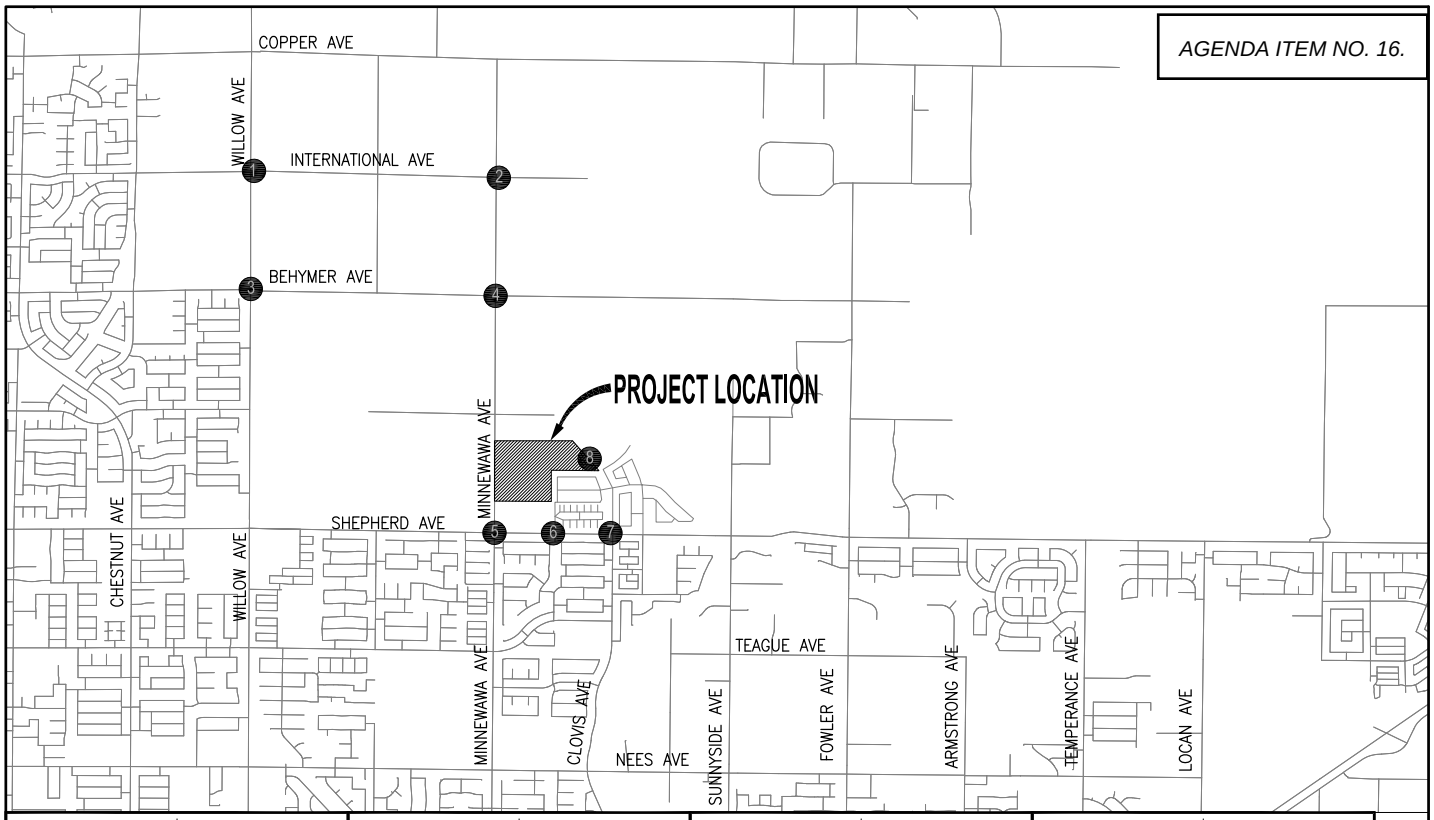



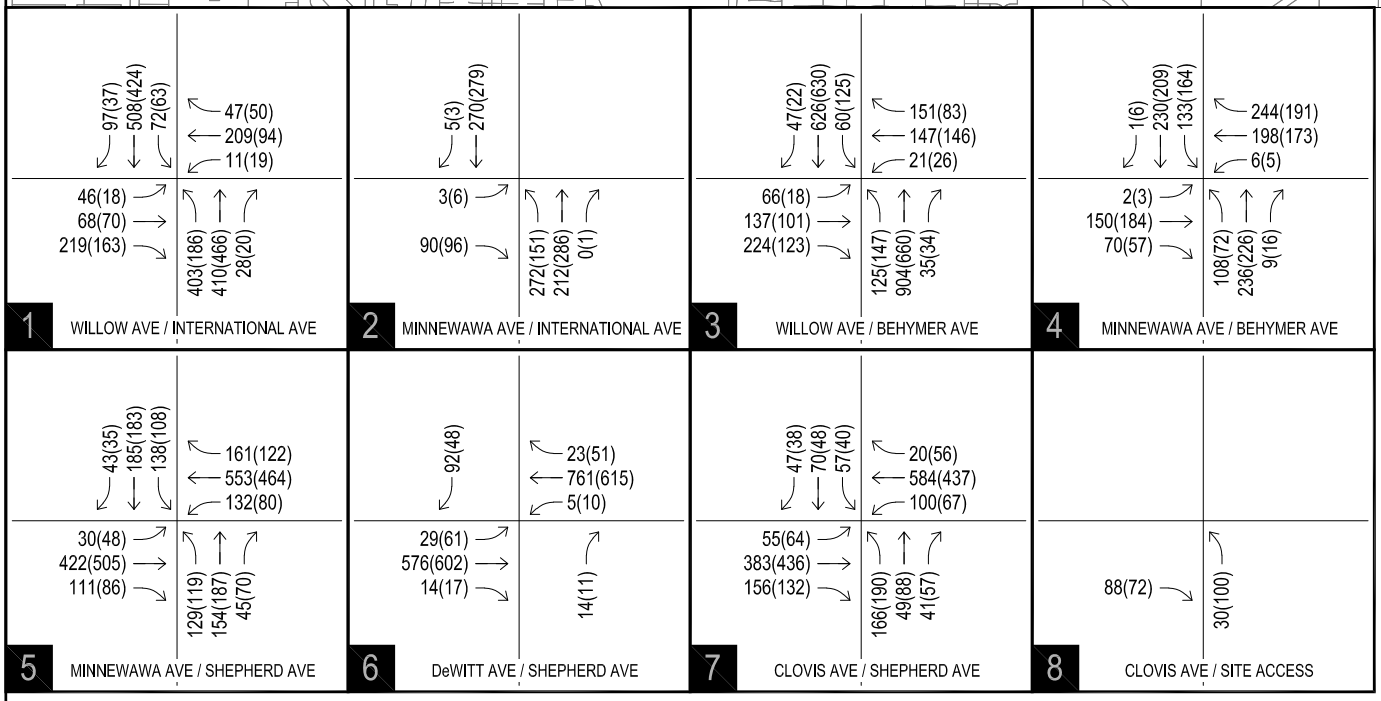

LEGEND

| | |
|---|---|
| X | STUDY AREA INTERSECTIONS |
| XX (YY) | AM (PM) PEAK HOUR VOLUMES |
| | PROJECT SITE |

Proposed Tract 6375
Clovis, California

# PEAK-HOUR PROJECT TRAFFIC VOLUMES



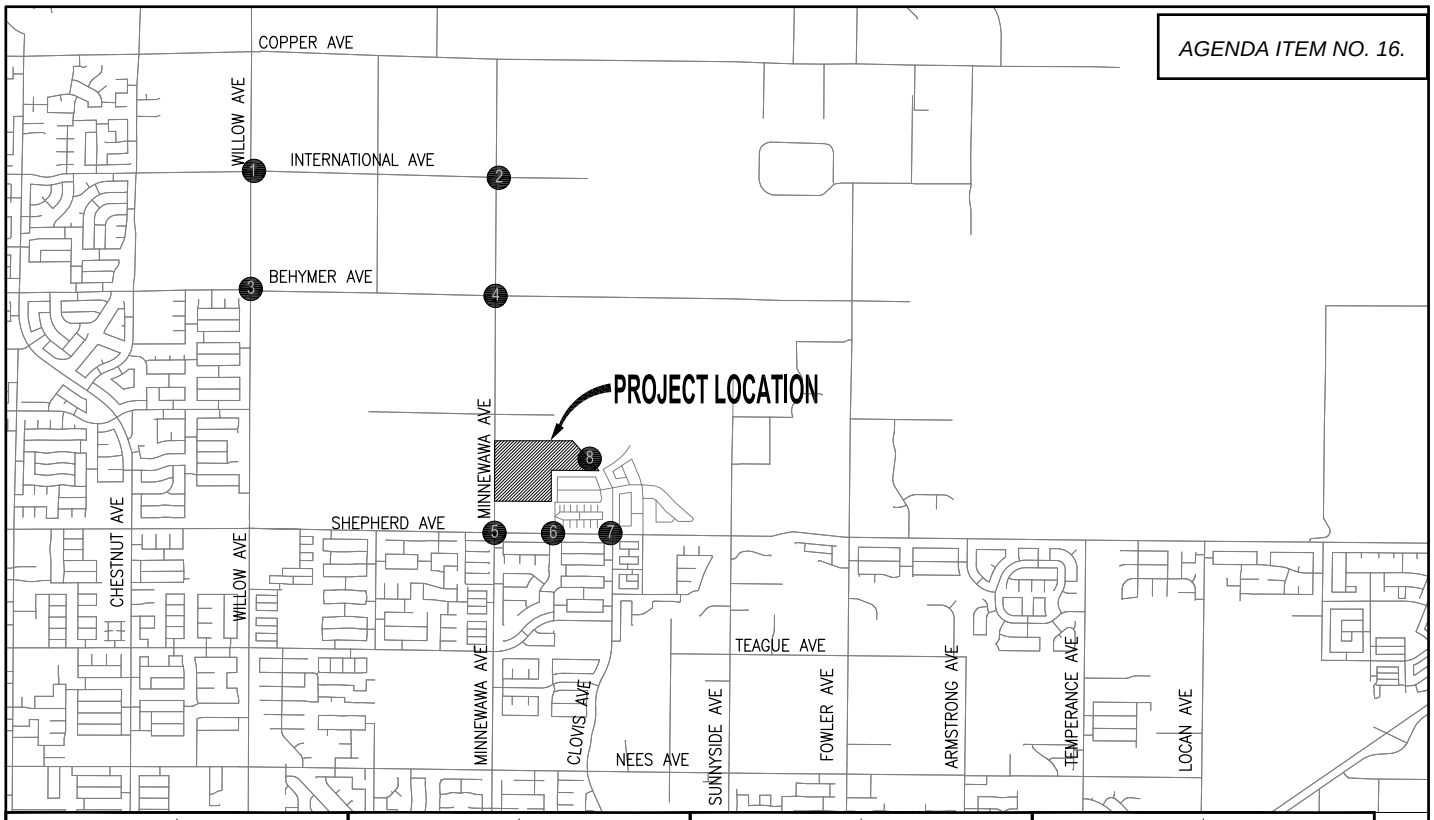



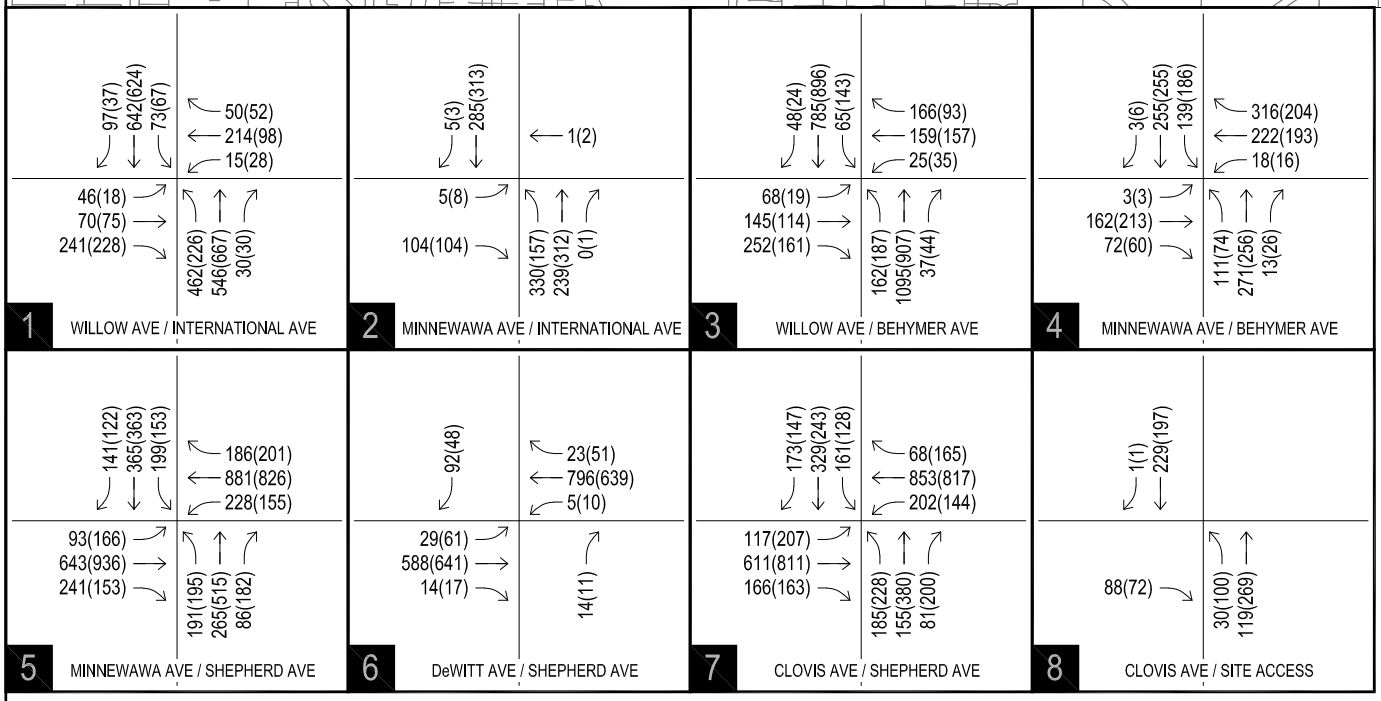

LEGEND

| | |
|---|---|
| X | STUDY AREA INTERSECTIONS |
| XX (YY) | AM (PM) PEAK HOUR VOLUMES |
| | PROJECT SITE |

Proposed Tract 6375
Clovis, California

# EXISTING-PLUS-PROJECT PEAK-HOUR TRAFFIC VOLUMES



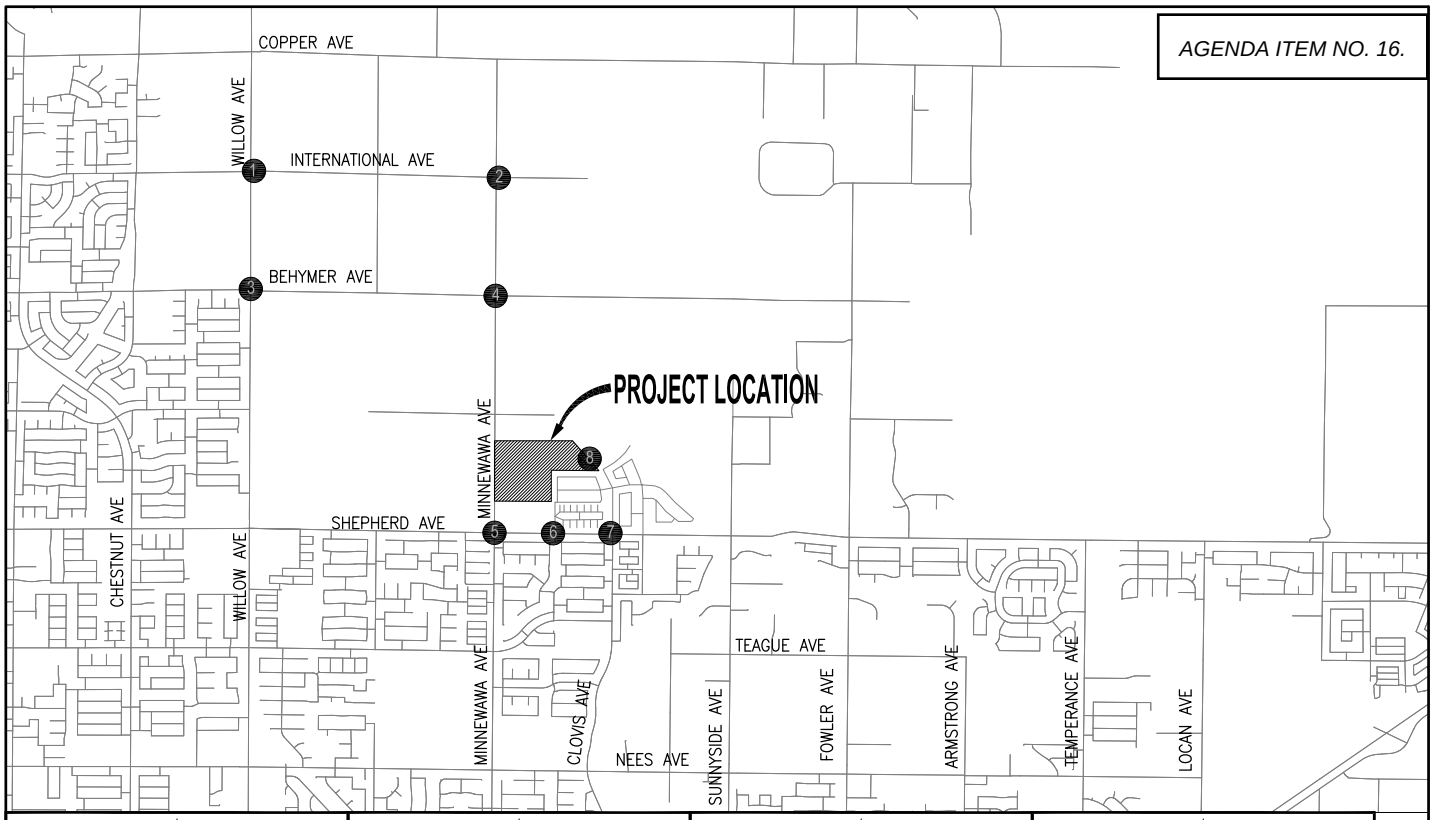



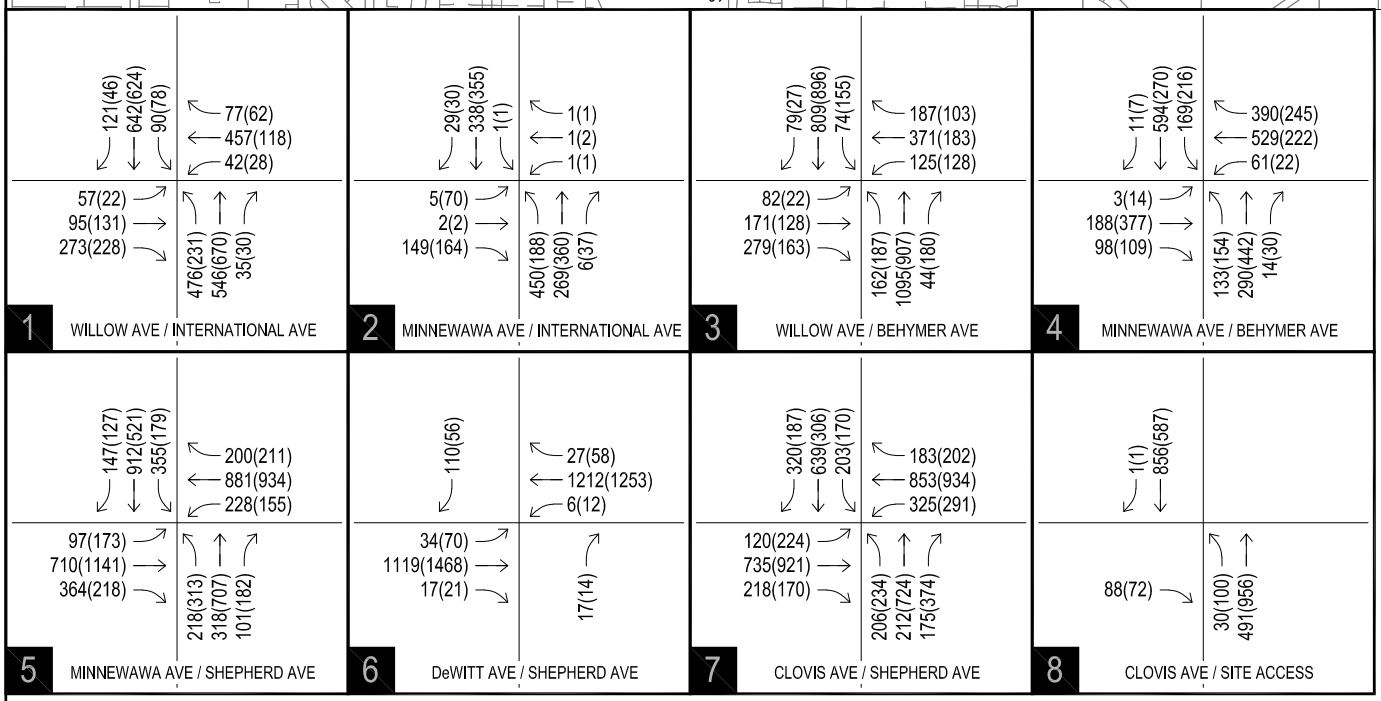

LEGEND

| | |
|---|---|
| X | STUDY AREA INTERSECTIONS |
| XX (YY) | AM (PM) PEAK HOUR VOLUMES |
| | PROJECT SITE |

Proposed Tract 6375
Clovis, California

# NEAR-TERM WITH-PROJECT PEAK-HOUR TRAFFIC VOLUMES




LEGEND

| | |
|---|---|
| X | STUDY AREA INTERSECTIONS |
| XX (YY) | AM (PM) PEAK HOUR VOLUMES |
| | PROJECT SITE |

Proposed Tract 6375
Clovis, California

# CUMULATIVE (YEAR 2045) WITH-PROJECT PEAK-HOUR TRAFFIC VOLUMES

# APPENDIX A

## TRAFFIC MODELING

PETERS ENGINEERING GROUP
A CALIFORNIA CORPORATION

# VMT Results

## Tract 6375, City of Clovis - VMT Analysis

| Tract 6375 (project) | Region (Fresno County)[1] | Difference | Percentage Difference |
|---|---|---|---|
| 16.6 | 14.1 | 2.5 | 17.7% |

Source: Fresno Council of Governments' Activity-Based Model

VMT = Vehicle Miles Traveled

[1] *The Fresno County VMT per capita was obtained from the Interim Transportation Impact Guidelines, City of Clovis - July 14, 2020*

### Appendix - Detailed VMT Calculations

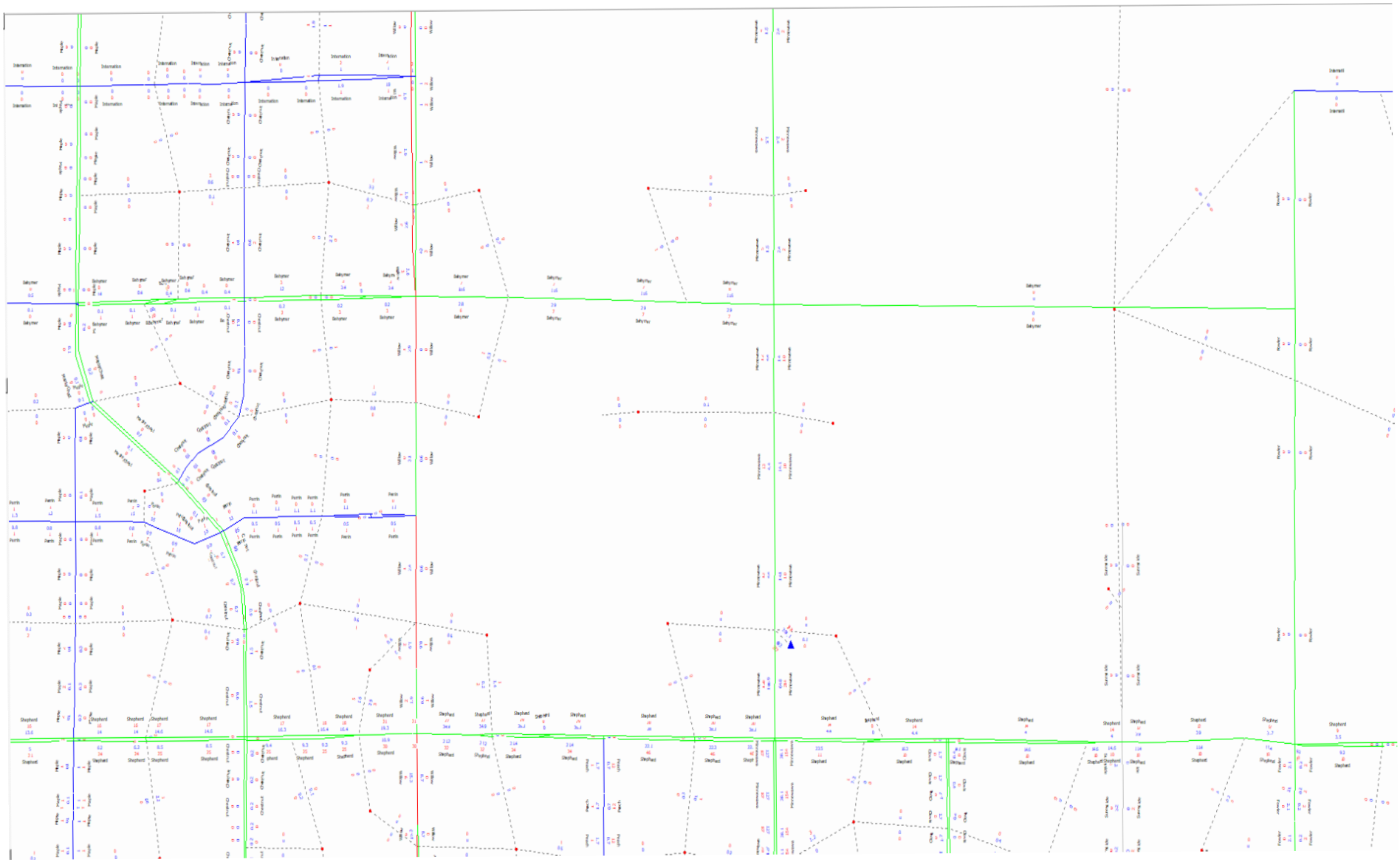
| | |
|---|---|
| Total project households | 387 |
| Total project population (a) | 1,336 |
| Percent Population traveling to outside (b) * | 7.79% |
| Project Population traveling to outside (c=b*a) | 104 |
| | |
| Total Internal-Internal (II) Project VMT (d) ** | 18,417 |
| Internal project population (e=a-c) | 1,232 |
| II VMT per capita (f=d/e) | 14.95 |
| | |
| IX VMT per capita (g) *** | 20.2 |
| Total IX VMT (h=g*c) | 2,102 |
| | |
| Total project VMT (i=d+h) | 20,520 |
| VMT per capita (j=i/a) | 15.4 |
| VMT adjustment factor for new base model (k) | 1.08 |
| Adjusted project VMT per capita (l = k*j) | 16.6 |

** : Obtained from "Fresno_worker_ixxifractions.dat" from model inputs. Used same percentages/values as the parent TAZ (252)*

***: Includes all tours and all sub-tours from the ABM model run for VMT estimation*

****: IX VMT per capita was estimated as average for all TAZs in the CSTDM Zone 2569*

# Select Zone Analysis



Select Zone Analysis Fresno County Travel Model
AM and PM Peak-Hour Traffic Volumes

# Baseline and Future Model Output

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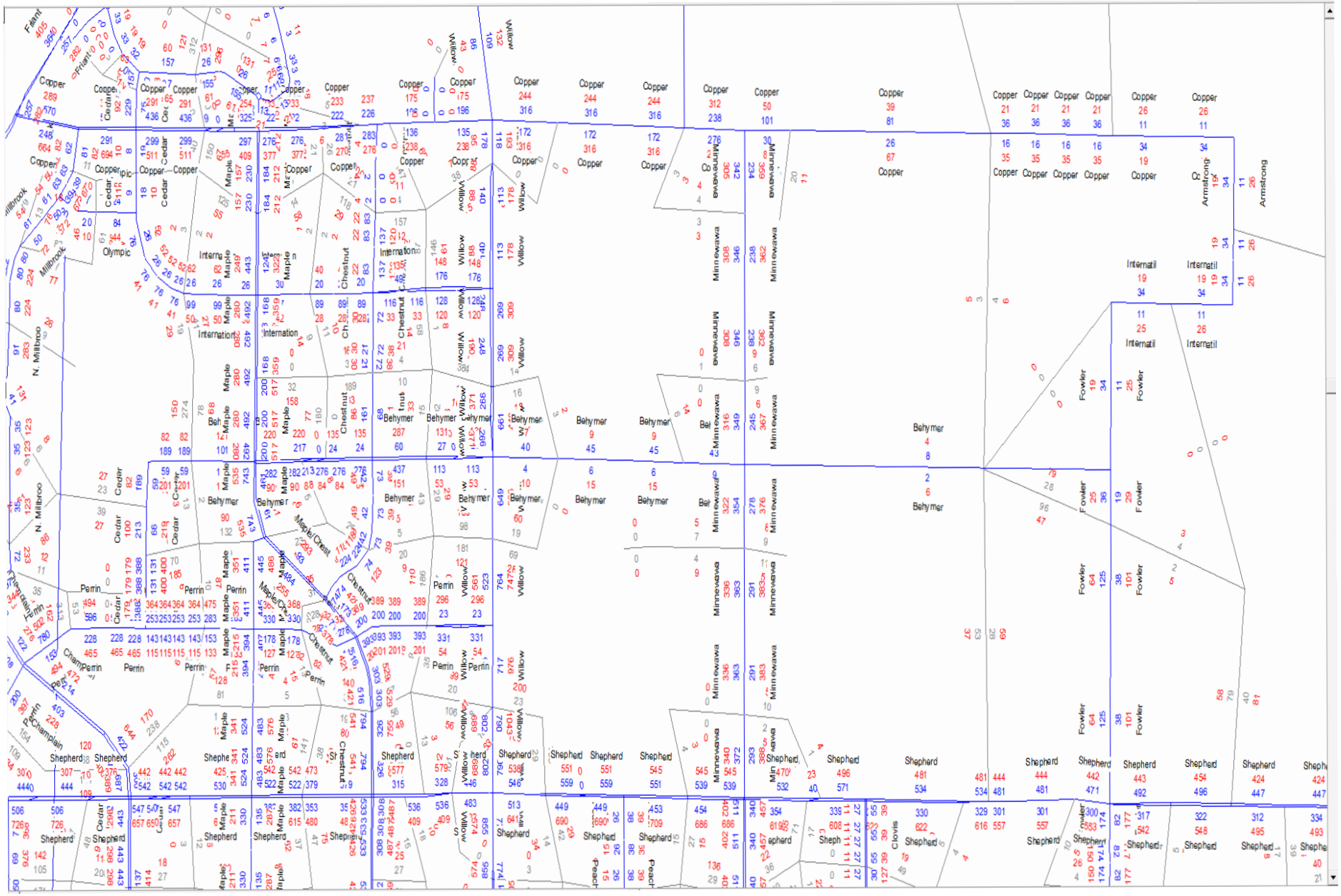
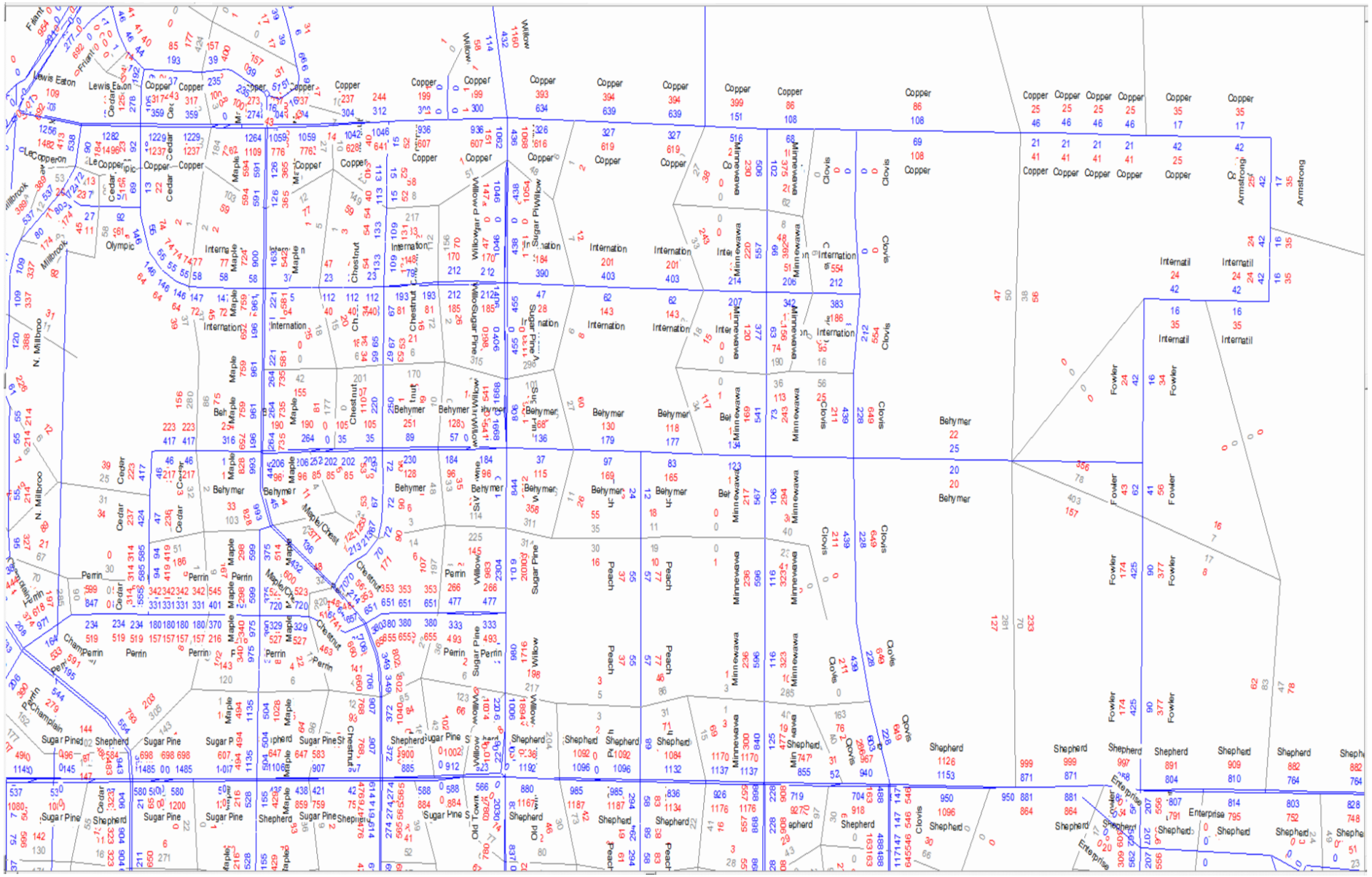
A CALIFORNIA CORPORATION




2019 Fresno County Travel Model
AM and PM Peak-Hour Traffic Volumes



2035 Fresno County Travel Model
AM and PM Peak-Hour Traffic Volumes

# APPENDIX B

## TRAFFIC COUNT DATA SHEETS

**Metro Traffic Data Inc.**
310 N. Irwin Street - Suite 20
Hanford, CA 93230

800-975-6938 Phone/Fax
www.metrotrafficdata.com

# Turning Movement Report

Prepared For:
**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

**LOCATION** Clovis Ave @ Shepherd Ave
**COUNTY** Fresno
**COLLECTION DATE** Thursday, November 2, 2023

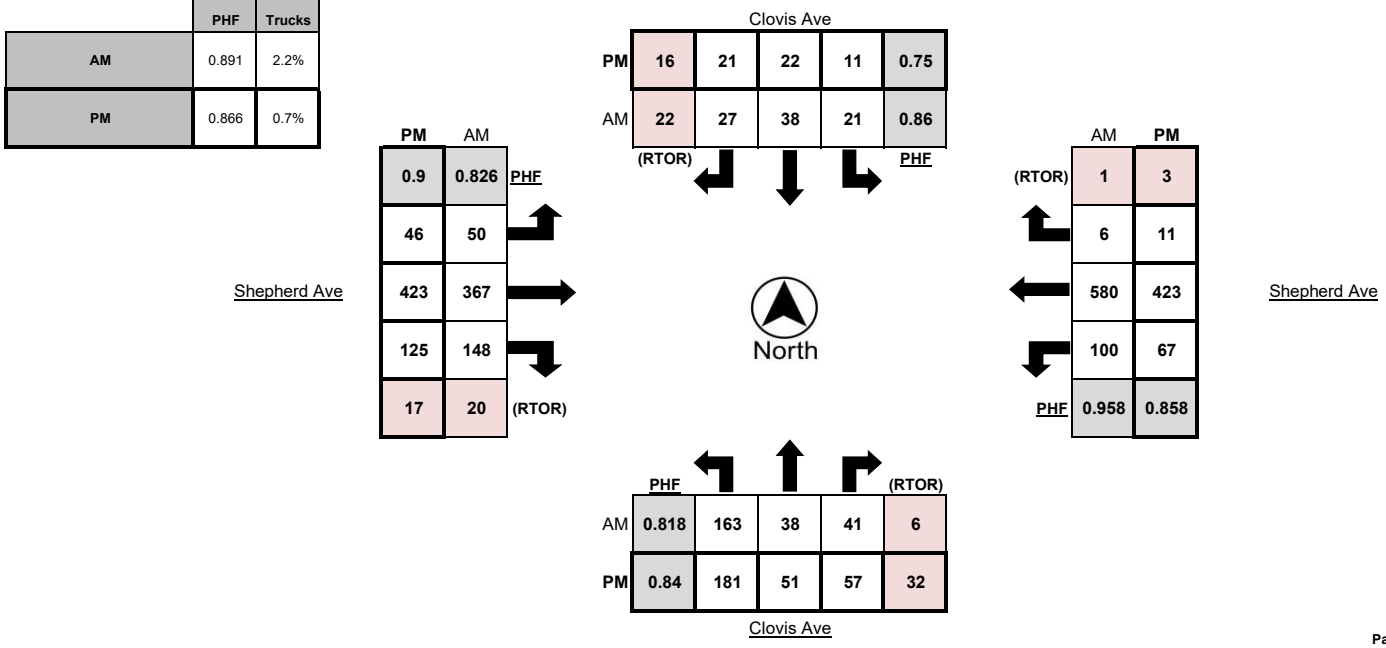
**LATITUDE** 36.8666
**LONGITUDE** -119.7021
**WEATHER** Clear

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks |
| 7:00 AM - 7:15 AM | 23 | 4 | 9 | 2 | 2 | 6 | 8 | 0 | 0 | 0 | 2 | 48 | 27 | 5 | 1 | 8 | 56 | 2 | 1 | 3 |
| 7:15 AM - 7:30 AM | 14 | 6 | 4 | 0 | 0 | 4 | 14 | 10 | 6 | 0 | 1 | 88 | 28 | 5 | 3 | 13 | 81 | 4 | 0 | 4 |
| 7:30 AM - 7:45 AM | 39 | 13 | 14 | 1 | 1 | 5 | 9 | 9 | 5 | 1 | 5 | 75 | 32 | 1 | 2 | 22 | 145 | 0 | 0 | 2 |
| 7:45 AM - 8:00 AM | 51 | 11 | 12 | 3 | 3 | 6 | 9 | 10 | 8 | 0 | 14 | 108 | 49 | 9 | 2 | 27 | 143 | 3 | 1 | 2 |
| 8:00 AM - 8:15 AM | 37 | 6 | 7 | 1 | 1 | 7 | 12 | 2 | 4 | 0 | 20 | 107 | 32 | 7 | 4 | 23 | 155 | 1 | 0 | 3 |
| 8:15 AM - 8:30 AM | 36 | 8 | 8 | 1 | 1 | 3 | 8 | 6 | 5 | 0 | 11 | 77 | 35 | 3 | 8 | 28 | 137 | 2 | 0 | 4 |
| 8:30 AM - 8:45 AM | 27 | 8 | 20 | 1 | 1 | 3 | 3 | 4 | 3 | 0 | 10 | 102 | 39 | 5 | 8 | 9 | 87 | 2 | 1 | 2 |
| 8:45 AM - 9:00 AM | 30 | 5 | 4 | 0 | 0 | 5 | 8 | 4 | 3 | 1 | 13 | 67 | 26 | 7 | 0 | 16 | 78 | 1 | 0 | 1 |
| **TOTAL** | **257** | **61** | **78** | **9** | **9** | **39** | **71** | **45** | **34** | **2** | **76** | **672** | **268** | **42** | **28** | **146** | **882** | **15** | **3** | **21** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks |
| 4:00 PM - 4:15 PM | 51 | 4 | 13 | 6 | 1 | 4 | 11 | 6 | 4 | 0 | 11 | 94 | 26 | 14 | 4 | 9 | 79 | 0 | 0 | 3 |
| 4:15 PM - 4:30 PM | 35 | 11 | 9 | 6 | 1 | 1 | 4 | 1 | 1 | 0 | 12 | 119 | 20 | 4 | 4 | 22 | 104 | 1 | 1 | 1 |
| 4:30 PM - 4:45 PM | 41 | 18 | 15 | 6 | 1 | 1 | 7 | 6 | 1 | 0 | 11 | 101 | 30 | 6 | 2 | 13 | 92 | 2 | 0 | 1 |
| 4:45 PM - 5:00 PM | 47 | 9 | 15 | 6 | 0 | 3 | 6 | 4 | 3 | 1 | 14 | 108 | 27 | 5 | 0 | 14 | 99 | 0 | 0 | 0 |
| 5:00 PM - 5:15 PM | 30 | 12 | 15 | 10 | 0 | 2 | 3 | 4 | 2 | 0 | 11 | 91 | 35 | 3 | 3 | 13 | 102 | 1 | 1 | 1 |
| 5:15 PM - 5:30 PM | 58 | 13 | 15 | 11 | 0 | 1 | 8 | 9 | 7 | 0 | 11 | 123 | 31 | 2 | 1 | 22 | 116 | 8 | 2 | 2 |
| 5:30 PM - 5:45 PM | 46 | 17 | 12 | 5 | 1 | 5 | 5 | 4 | 4 | 0 | 10 | 101 | 32 | 7 | 0 | 18 | 106 | 2 | 0 | 1 |
| 5:45 PM - 6:00 PM | 48 | 14 | 6 | 5 | 0 | 5 | 9 | 5 | 5 | 0 | 8 | 101 | 38 | 2 | 0 | 17 | 87 | 2 | 0 | 0 |
| **TOTAL** | **356** | **98** | **100** | **55** | **4** | **22** | **53** | **39** | **27** | **1** | **88** | **838** | **239** | **43** | **14** | **128** | **785** | **16** | **4** | **9** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks |
| 7:30 AM - 8:30 AM | 163 | 38 | 41 | 6 | 6 | 21 | 38 | 27 | 22 | 1 | 50 | 367 | 148 | 20 | 16 | 100 | 580 | 6 | 1 | 11 |
| 4:45 PM - 5:45 PM | 181 | 51 | 57 | 32 | 1 | 11 | 22 | 21 | 16 | 1 | 46 | 423 | 125 | 17 | 4 | 67 | 423 | 11 | 3 | 4 |

| | PHF | Trucks |
|---|---|---|
| AM | 0.891 | 2.2% |
| PM | 0.866 | 0.7% |



**Metro Traffic Data Inc.**
310 N. Irwin Street - Suite 20
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800-975-6938 Phone/Fax
www.metrotrafficdata.com

# Turning Movement Report

Prepared For:

**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

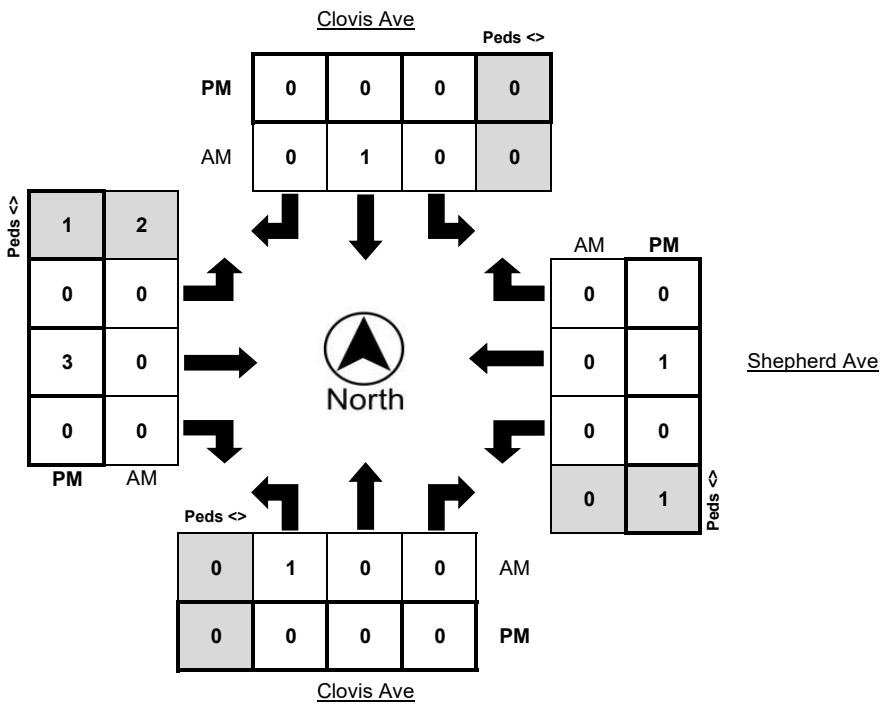
**LOCATION** Clovis Ave @ Shepherd Ave
**LATITUDE** 36.8666
**COUNTY** Fresno
**LONGITUDE** -119.7021
**COLLECTION DATE** Thursday, November 2, 2023
**WEATHER** Clear

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:00 AM - 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| 7:15 AM - 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| 7:30 AM - 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM - 8:00 AM | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 8:00 AM - 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM - 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM - 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM - 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| **TOTAL** | **1** | **0** | **0** | **0** | **0** | **1** | **0** | **0** | **0** | **0** | **0** | **1** | **0** | **3** | **0** | **4** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 4:00 PM - 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 |
| 4:15 PM - 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM - 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:45 PM - 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM - 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM - 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| 5:30 PM - 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:45 PM - 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 |
| **TOTAL** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **4** | **0** | **5** | **1** | **1** | **0** | **2** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:30 AM - 8:30 AM | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:45 PM - 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 1 | 0 | 1 |

| | Bikes | Peds |
|---|---|---|
| AM Peak Total | 2 | 2 |
| PM Peak Total | **4** | **2** |



**Metro Traffic Data Inc.**
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www.metrotrafficdata.com

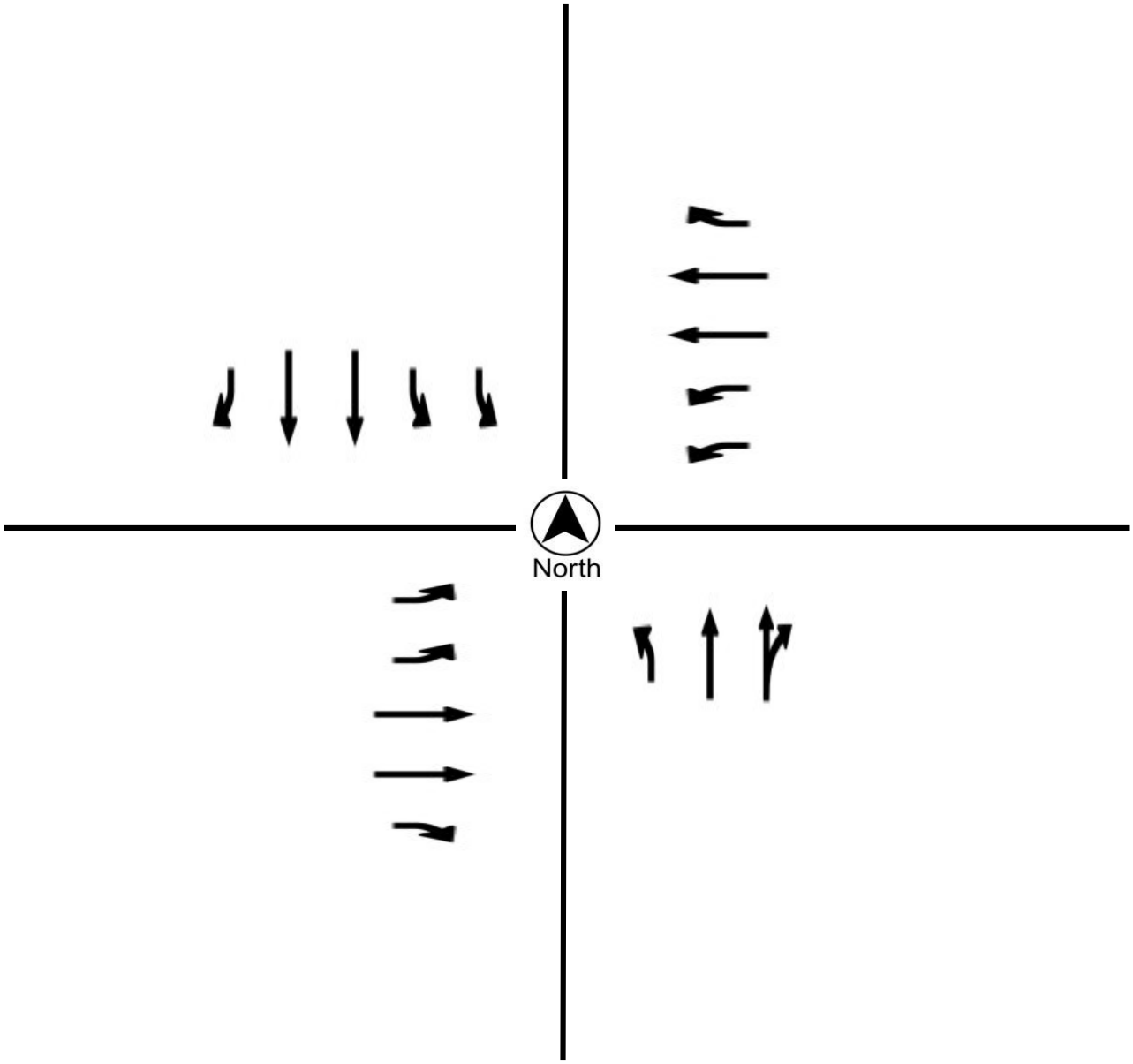
# Turning Movement Report

Prepared For:

**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

| | | | |
|---|---|---|---|
| **LOCATION** | Clovis Ave @ Shepherd Ave | **N/S STREET** | Clovis Ave |
| **COUNTY** | Fresno | **E/W STREET** | Shepherd Ave |
| **COLLECTION DATE** | Thursday, November 2, 2023 | **WEATHER** | Clear |
| **CYCLE TIME** | 116 Seconds | **CONTROL TYPE** | Signal |

**COMMENTS** All approaches have protected left turns



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# Turning Movement Report

Prepared For:

**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

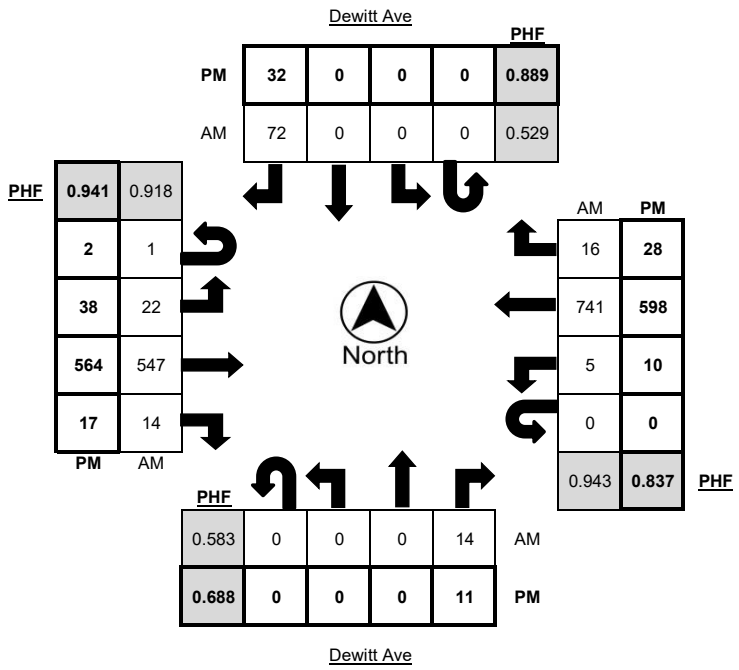
**LOCATION** Dewitt Ave @ Shepherd Ave
**LATITUDE** 36.8666
**COUNTY** Fresno
**LONGITUDE** -119.7065
**COLLECTION DATE** Thursday, November 2, 2023
**WEATHER** Clear

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks |
| 7:00 AM - 7:15 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 3 | 77 | 1 | 1 | 0 | 1 | 74 | 5 | 2 |
| 7:15 AM - 7:30 AM | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 10 | 0 | 1 | 0 | 111 | 1 | 2 | 0 | 0 | 103 | 2 | 3 |
| 7:30 AM - 7:45 AM | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 34 | 0 | 0 | 3 | 122 | 4 | 2 | 0 | 1 | 172 | 6 | 3 |
| 7:45 AM - 8:00 AM | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 10 | 146 | 3 | 2 | 0 | 1 | 195 | 6 | 2 |
| 8:00 AM - 8:15 AM | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 13 | 0 | 1 | 7 | 144 | 3 | 3 | 0 | 1 | 198 | 2 | 3 |
| 8:15 AM - 8:30 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 2 | 135 | 4 | 9 | 0 | 2 | 176 | 2 | 4 |
| 8:30 AM - 8:45 AM | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 9 | 0 | 0 | 4 | 138 | 0 | 6 | 0 | 2 | 112 | 2 | 1 |
| 8:45 AM - 9:00 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 95 | 2 | 0 | 2 | 0 | 111 | 2 | 2 |
| **TOTAL** | **0** | **0** | **0** | **23** | **1** | **0** | **0** | **0** | **103** | **0** | **2** | **36** | **968** | **18** | **25** | **2** | **8** | **1141** | **27** | **20** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks |
| 4:00 PM - 4:15 PM | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 12 | 129 | 1 | 6 | 0 | 0 | 137 | 7 | 1 |
| 4:15 PM - 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 10 | 131 | 5 | 4 | 0 | 1 | 133 | 5 | 2 |
| 4:30 PM - 4:45 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 8 | 1 | 0 | 10 | 140 | 8 | 2 | 0 | 2 | 136 | 2 | 1 |
| 4:45 PM - 5:00 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 11 | 150 | 4 | 0 | 0 | 2 | 141 | 8 | 0 |
| 5:00 PM - 5:15 PM | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 9 | 0 | 2 | 8 | 134 | 6 | 1 | 0 | 1 | 132 | 4 | 0 |
| 5:15 PM - 5:30 PM | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 6 | 148 | 5 | 1 | 0 | 3 | 179 | 8 | 0 |
| 5:30 PM - 5:45 PM | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 13 | 132 | 2 | 0 | 0 | 4 | 146 | 8 | 1 |
| 5:45 PM - 6:00 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 8 | 152 | 5 | 0 | 0 | 0 | 142 | 3 | 0 |
| **TOTAL** | **0** | **0** | **0** | **17** | **0** | **0** | **0** | **0** | **65** | **1** | **2** | **78** | **1116** | **36** | **14** | **0** | **13** | **1146** | **45** | **5** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks |
| 7:30 AM - 8:30 AM | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 72 | 0 | 1 | 22 | 547 | 14 | 16 | 0 | 5 | 741 | 16 | 12 |
| 4:45 PM - 5:45 PM | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 32 | 0 | 2 | 38 | 564 | 17 | 2 | 0 | 10 | 598 | 28 | 1 |

| | PHF | Trucks |
|---|---|---|
| AM | 0.952 | 2.0% |
| PM | 0.900 | 0.2% |



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# Turning Movement Report

Prepared For:

**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

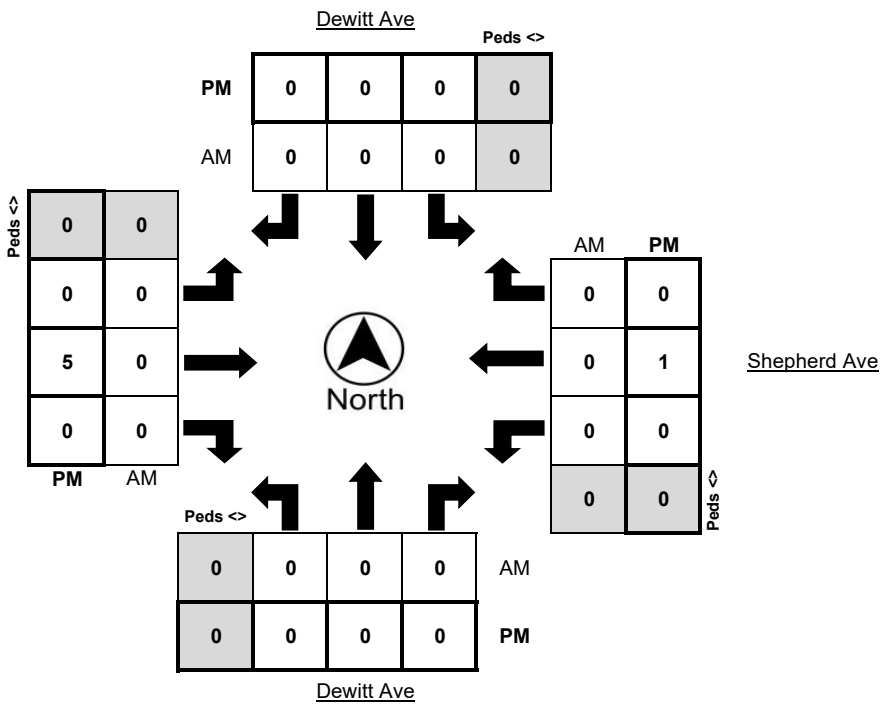
**LOCATION** Dewitt Ave @ Shepherd Ave
**LATITUDE** 36.8666
**COUNTY** Fresno
**LONGITUDE** -119.7065
**COLLECTION DATE** Thursday, November 2, 2023
**WEATHER** Clear

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:00 AM - 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 7:15 AM - 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 7:30 AM - 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM - 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM - 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM - 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM - 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM - 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| **TOTAL** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **3** | **0** | **0** | **0** | **0** | **0** | **3** | **0** | **0** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 4:00 PM - 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM - 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM - 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM - 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM - 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM - 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 |
| 5:30 PM - 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM - 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| **TOTAL** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **7** | **0** | **0** | **0** | **1** | **1** | **0** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:30 AM - 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM - 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 1 | 0 | 0 |

| | Bikes | Peds |
|---|---|---|
| AM Peak Total | 0 | 0 |
| PM Peak Total | **6** | **0** |



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www.metrotrafficdata.com

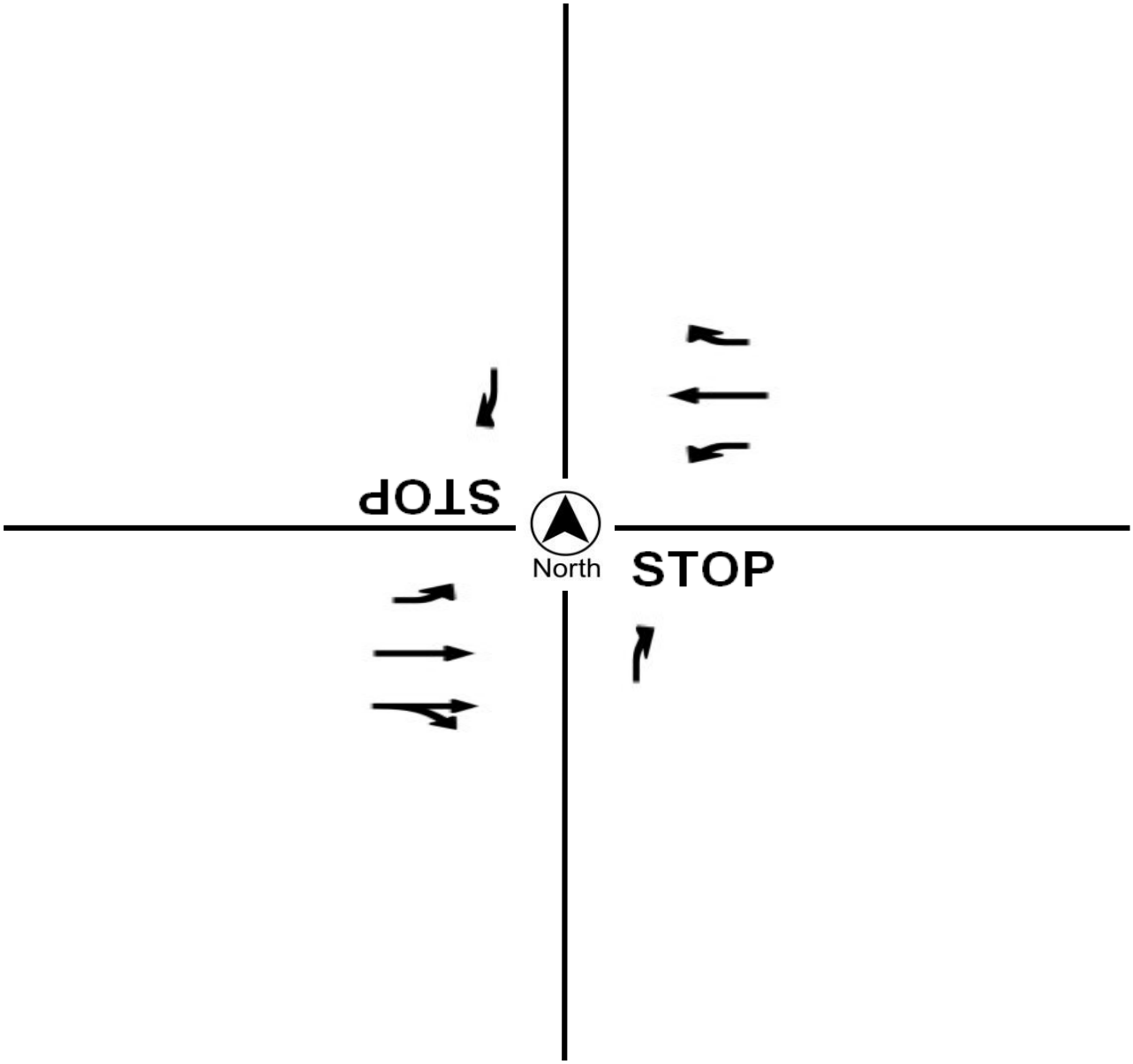
# Turning Movement Report

Prepared For:

**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

| | | | |
|---|---|---|---|
| **LOCATION** | Dewitt Ave @ Shepherd Ave | **N/S STREET** | Dewitt Ave / Dewitt Ave |
| **COUNTY** | Fresno | **E/W STREET** | Shepherd Ave / Shepherd Ave |
| **COLLECTION DATE** | Thursday, November 2, 2023 | **WEATHER** | Clear |
| **CYCLE TIME** | N/A | **CONTROL TYPE** | Two-Way Stop |

**COMMENTS**



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# Turning Movement Report

Prepared For:

**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

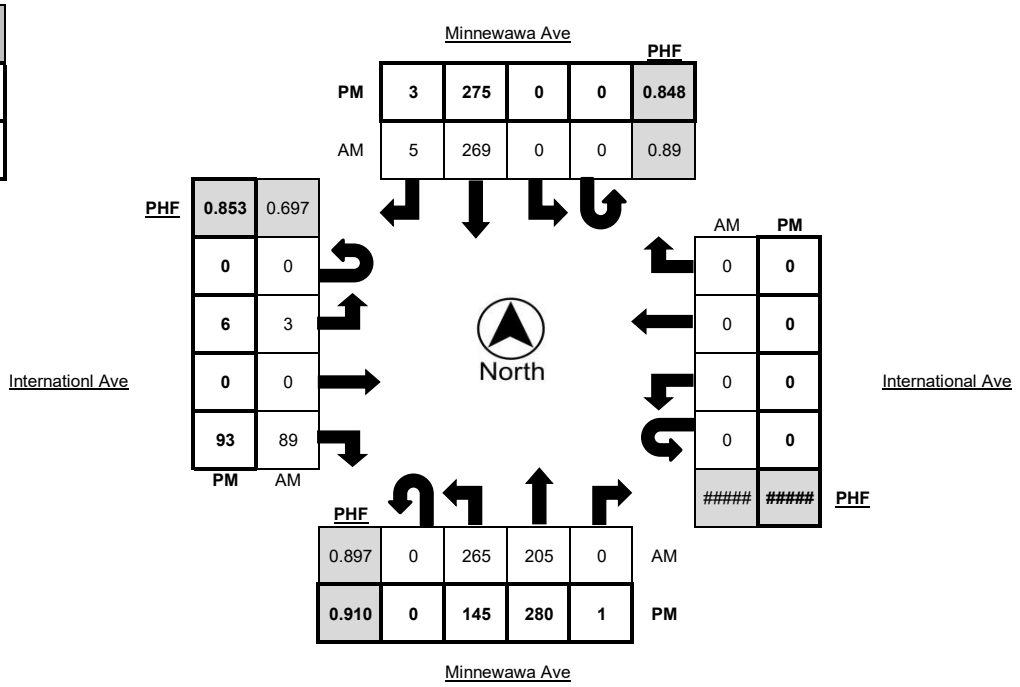
**LOCATION** Minnewawa Ave @ International Ave
**LATITUDE** 36.8884
**COUNTY** Fresno
**LONGITUDE** -119.7112
**COLLECTION DATE** Thursday, September 14, 2023
**WEATHER** Clear

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks |
| 7:00 AM - 7:15 AM | 0 | 38 | 40 | 0 | 3 | 0 | 0 | 55 | 1 | 2 | 0 | 1 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM - 7:30 AM | 0 | 41 | 40 | 0 | 1 | 0 | 0 | 59 | 0 | 1 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM - 7:45 AM | 0 | 47 | 42 | 0 | 2 | 0 | 0 | 66 | 0 | 2 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM - 8:00 AM | 0 | 65 | 58 | 0 | 5 | 0 | 0 | 61 | 1 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM - 8:15 AM | 0 | 82 | 49 | 0 | 1 | 0 | 0 | 73 | 4 | 3 | 0 | 3 | 0 | 30 | 1 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM - 8:30 AM | 0 | 71 | 56 | 0 | 3 | 0 | 0 | 69 | 0 | 2 | 0 | 0 | 0 | 25 | 1 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM - 8:45 AM | 0 | 31 | 51 | 0 | 6 | 0 | 0 | 55 | 0 | 3 | 0 | 0 | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM - 9:00 AM | 0 | 25 | 59 | 0 | 4 | 0 | 0 | 51 | 0 | 3 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL** | **0** | **400** | **395** | **0** | **25** | **0** | **0** | **489** | **6** | **16** | **0** | **4** | **0** | **155** | **2** | **0** | **0** | **0** | **0** | **0** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks |
| 4:00 PM - 4:15 PM | 0 | 26 | 57 | 0 | 1 | 0 | 0 | 55 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 1 | 0 | 0 | 0 |
| 4:15 PM - 4:30 PM | 0 | 25 | 59 | 0 | 2 | 0 | 0 | 58 | 0 | 1 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM - 4:45 PM | 0 | 37 | 60 | 0 | 1 | 0 | 0 | 50 | 0 | 2 | 0 | 0 | 0 | 24 | 0 | 0 | 1 | 0 | 0 | 0 |
| 4:45 PM - 5:00 PM | 0 | 25 | 68 | 0 | 0 | 0 | 0 | 79 | 0 | 1 | 0 | 1 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM - 5:15 PM | 0 | 33 | 73 | 0 | 0 | 0 | 0 | 63 | 0 | 1 | 0 | 1 | 0 | 26 | 1 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM - 5:30 PM | 0 | 48 | 69 | 0 | 0 | 0 | 0 | 81 | 1 | 1 | 0 | 3 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM - 5:45 PM | 0 | 39 | 70 | 1 | 3 | 0 | 0 | 52 | 2 | 0 | 0 | 1 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM - 6:00 PM | 0 | 29 | 55 | 0 | 0 | 0 | 0 | 57 | 0 | 1 | 0 | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL** | **0** | **262** | **511** | **1** | **7** | **0** | **0** | **495** | **3** | **7** | **0** | **6** | **0** | **197** | **1** | **0** | **2** | **0** | **0** | **0** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks |
| 7:30 AM - 8:30 AM | 0 | 265 | 205 | 0 | 11 | 0 | 0 | 269 | 5 | 7 | 0 | 3 | 0 | 89 | 2 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM - 5:45 PM | 0 | 145 | 280 | 1 | 3 | 0 | 0 | 275 | 3 | 3 | 0 | 6 | 0 | 93 | 1 | 0 | 0 | 0 | 0 | 0 |

| | PHF | Trucks |
|---|---|---|
| AM | 0.867 | 2.4% |
| PM | 0.896 | 0.9% |



**Metro Traffic Data Inc.**
310 N. Irwin Street - Suite 20
Hanford, CA 93230

800-975-6938 Phone/Fax
www.metrotrafficdata.com

# Turning Movement Report

Prepared For:

**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

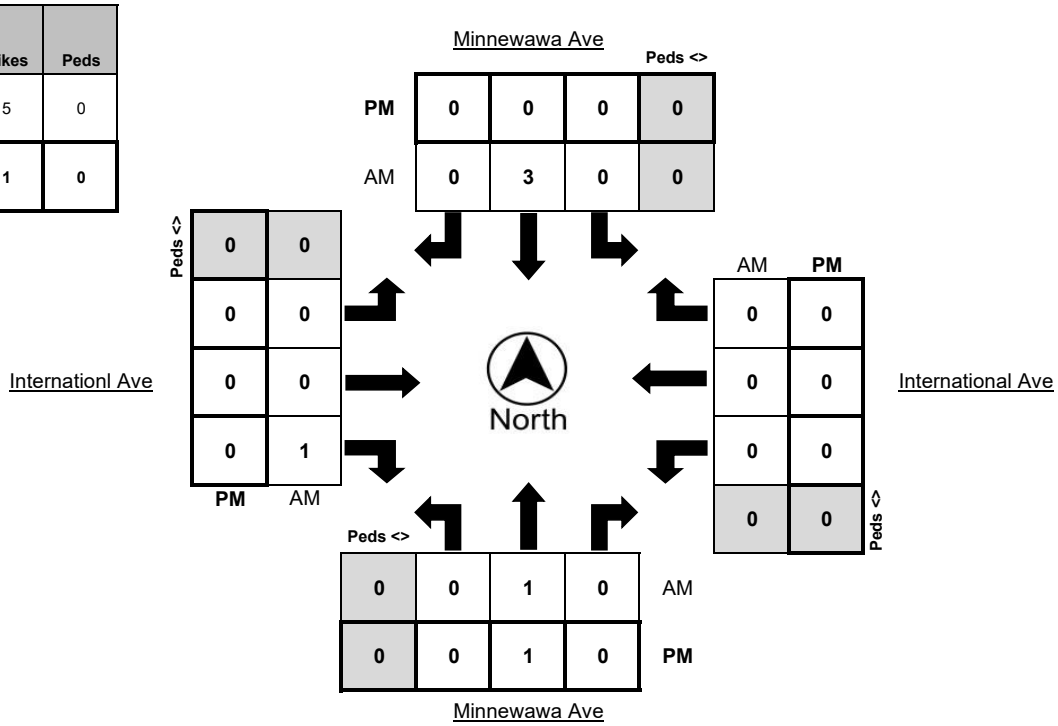
**LOCATION** Minnewawa Ave @ International Ave
**LATITUDE** 36.8884
**COUNTY** Fresno
**LONGITUDE** -119.7112
**COLLECTION DATE** Thursday, September 14, 2023
**WEATHER** Clear

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:00 AM - 7:15 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM - 7:30 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM - 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM - 8:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM - 8:15 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM - 8:30 AM | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM - 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM - 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL** | **0** | **2** | **0** | **0** | **0** | **5** | **0** | **0** | **0** | **0** | **1** | **0** | **0** | **0** | **0** | **0** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 4:00 PM - 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM - 4:30 PM | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM - 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM - 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM - 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM - 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM - 5:45 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM - 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL** | **1** | **1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:30 AM - 8:30 AM | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM - 5:45 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | Bikes | Peds |
|---|---|---|
| AM Peak Total | 5 | 0 |
| PM Peak Total | 1 | 0 |



**Metro Traffic Data Inc.**
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Hanford, CA 93230

800-975-6938 Phone/Fax
www.metrotrafficdata.com

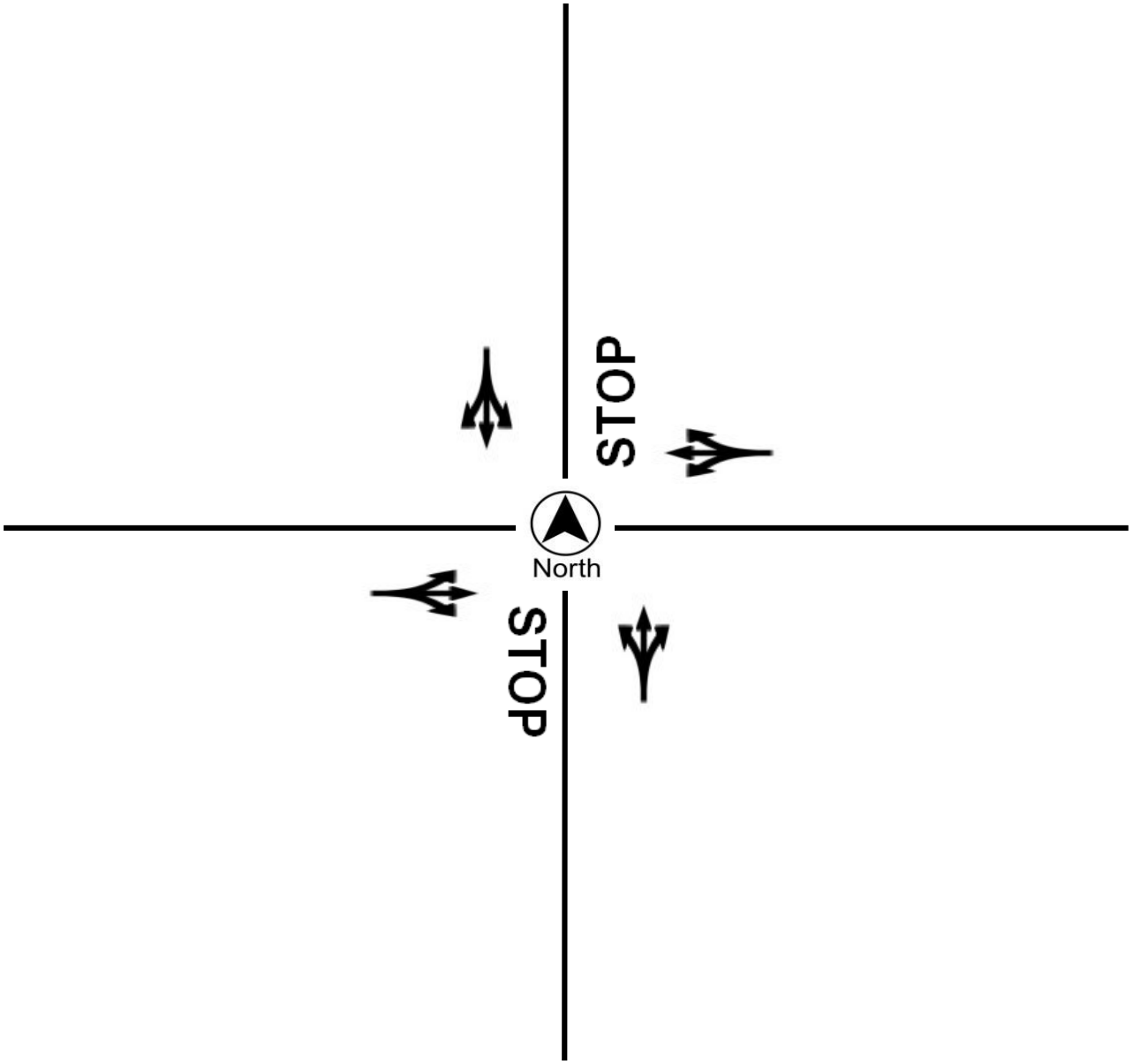
# Turning Movement Report

Prepared For:

**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

| | | | |
|---|---|---|---|
| **LOCATION** | Minnewawa Ave @ International Ave | **N/S STREET** | Minnewawa Ave / Minnewawa Ave |
| **COUNTY** | Fresno | **E/W STREET** | International Ave / Internationl Ave |
| **COLLECTION DATE** | Thursday, September 14, 2023 | **WEATHER** | Clear |
| **CYCLE TIME** | N/A | **CONTROL TYPE** | Two-Way Stop |

**COMMENTS**



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800-975-6938 Phone/Fax
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# Turning Movement Report

Prepared For:
**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

**LOCATION** Minnewawa Ave @ Shepherd Ave
**COUNTY** Fresno
**COLLECTION DATE** Thursday, November 2, 2023

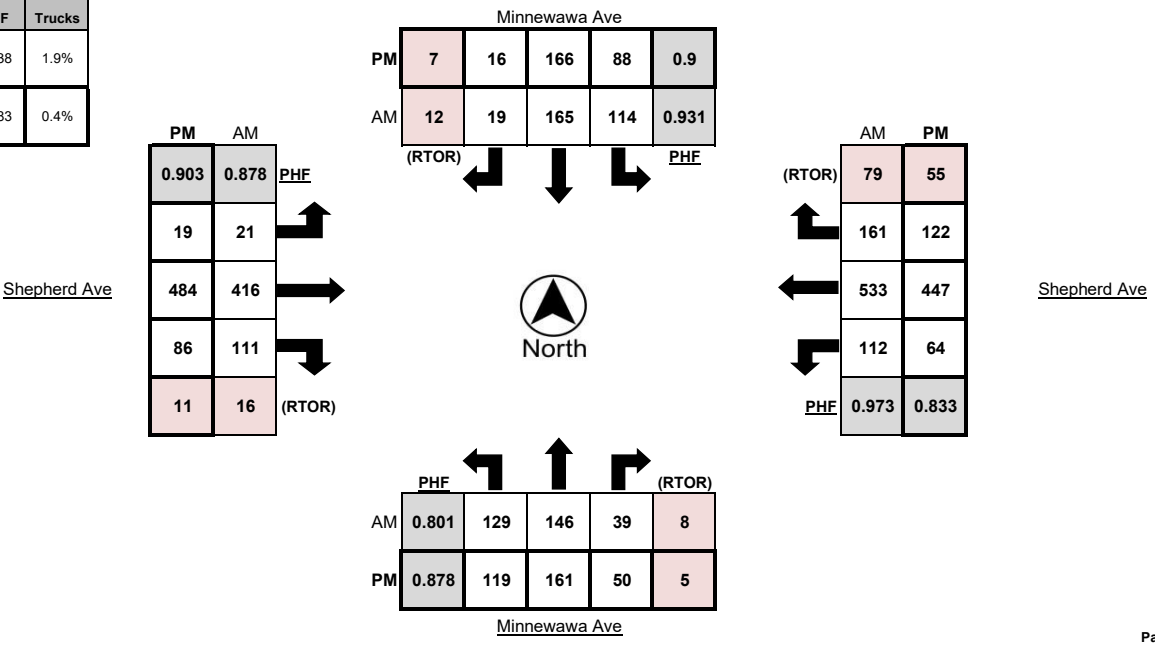
**LATITUDE** 36.8666
**LONGITUDE** -119.7111
**WEATHER** Clear

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks |
| 7:00 AM - 7:15 AM | 12 | 17 | 0 | 0 | 1 | 12 | 18 | 3 | 2 | 1 | 4 | 65 | 16 | 9 | 1 | 4 | 56 | 19 | 7 | 3 |
| 7:15 AM - 7:30 AM | 15 | 31 | 4 | 1 | 0 | 23 | 43 | 3 | 0 | 1 | 2 | 92 | 14 | 4 | 3 | 15 | 78 | 16 | 7 | 2 |
| 7:30 AM - 7:45 AM | 19 | 40 | 8 | 3 | 1 | 24 | 40 | 7 | 5 | 2 | 5 | 90 | 20 | 5 | 1 | 18 | 133 | 42 | 23 | 1 |
| 7:45 AM - 8:00 AM | 29 | 28 | 7 | 2 | 0 | 30 | 34 | 4 | 2 | 1 | 5 | 120 | 31 | 4 | 2 | 19 | 149 | 38 | 21 | 3 |
| 8:00 AM - 8:15 AM | 36 | 33 | 16 | 1 | 1 | 31 | 46 | 3 | 2 | 1 | 7 | 109 | 36 | 4 | 4 | 43 | 129 | 35 | 14 | 3 |
| 8:15 AM - 8:30 AM | 45 | 45 | 8 | 2 | 4 | 29 | 45 | 5 | 3 | 4 | 4 | 97 | 24 | 3 | 5 | 32 | 122 | 46 | 21 | 5 |
| 8:30 AM - 8:45 AM | 23 | 29 | 12 | 3 | 0 | 29 | 33 | 1 | 0 | 4 | 2 | 103 | 13 | 0 | 3 | 10 | 100 | 17 | 10 | 0 |
| 8:45 AM - 9:00 AM | 19 | 17 | 4 | 1 | 2 | 20 | 36 | 2 | 0 | 1 | 3 | 80 | 14 | 0 | 0 | 3 | 96 | 23 | 6 | 2 |
| **TOTAL** | **198** | **240** | **59** | **13** | **9** | **198** | **295** | **28** | **14** | **15** | **32** | **756** | **168** | **29** | **19** | **144** | **863** | **236** | **109** | **19** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks |
| 4:00 PM - 4:15 PM | 22 | 37 | 10 | 2 | 0 | 25 | 35 | 0 | 0 | 5 | 7 | 112 | 15 | 2 | 4 | 4 | 108 | 29 | 11 | 1 |
| 4:15 PM - 4:30 PM | 15 | 28 | 9 | 1 | 2 | 21 | 41 | 1 | 0 | 1 | 11 | 115 | 15 | 2 | 2 | 19 | 98 | 28 | 7 | 1 |
| 4:30 PM - 4:45 PM | 19 | 31 | 8 | 1 | 0 | 28 | 33 | 2 | 2 | 1 | 4 | 123 | 13 | 2 | 2 | 8 | 103 | 24 | 7 | 2 |
| 4:45 PM - 5:00 PM | 24 | 36 | 14 | 2 | 1 | 20 | 48 | 2 | 0 | 0 | 5 | 130 | 19 | 4 | 0 | 6 | 112 | 29 | 11 | 0 |
| 5:00 PM - 5:15 PM | 22 | 32 | 12 | 2 | 1 | 19 | 31 | 2 | 1 | 1 | 3 | 124 | 13 | 2 | 1 | 12 | 108 | 26 | 11 | 0 |
| 5:15 PM - 5:30 PM | 40 | 42 | 8 | 0 | 1 | 19 | 51 | 3 | 2 | 1 | 7 | 140 | 16 | 3 | 1 | 19 | 131 | 40 | 20 | 0 |
| 5:30 PM - 5:45 PM | 34 | 40 | 20 | 3 | 0 | 25 | 43 | 2 | 0 | 0 | 7 | 94 | 29 | 4 | 1 | 19 | 93 | 28 | 8 | 1 |
| 5:45 PM - 6:00 PM | 23 | 47 | 10 | 0 | 0 | 25 | 41 | 9 | 4 | 0 | 2 | 126 | 28 | 2 | 0 | 14 | 115 | 28 | 16 | 0 |
| **TOTAL** | **199** | **293** | **91** | **11** | **5** | **182** | **323** | **21** | **9** | **9** | **46** | **964** | **148** | **21** | **11** | **101** | **868** | **232** | **91** | **5** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks |
| 7:30 AM - 8:30 AM | 129 | 146 | 39 | 8 | 6 | 114 | 165 | 19 | 12 | 8 | 21 | 416 | 111 | 16 | 12 | 112 | 533 | 161 | 79 | 12 |
| 5:00 PM - 6:00 PM | 119 | 161 | 50 | 5 | 2 | 88 | 166 | 16 | 7 | 2 | 19 | 484 | 86 | 11 | 3 | 64 | 447 | 122 | 55 | 1 |

| | PHF | Trucks |
|---|---|---|
| AM | 0.938 | 1.9% |
| PM | 0.883 | 0.4% |



**Metro Traffic Data Inc.**
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Hanford, CA 93230

800-975-6938 Phone/Fax
www.metrotrafficdata.com

# Turning Movement Report

Prepared For:

**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

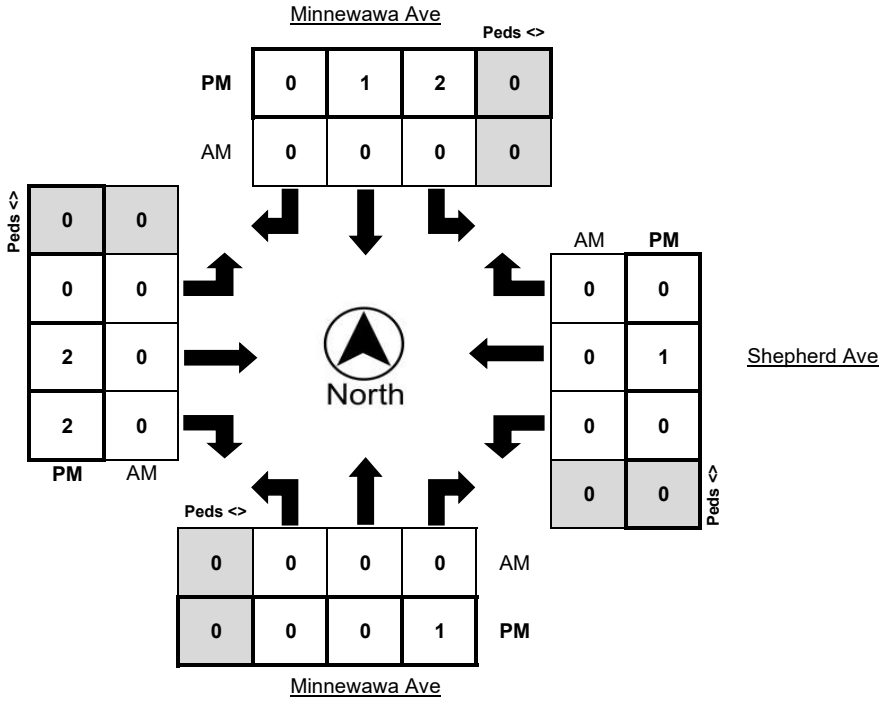
**LOCATION** Minnewawa Ave @ Shepherd Ave
**LATITUDE** 36.8666
**COUNTY** Fresno
**LONGITUDE** -119.7111
**COLLECTION DATE** Thursday, November 2, 2023
**WEATHER** Clear

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:00 AM - 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM - 7:30 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 7:30 AM - 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM - 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM - 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM - 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM - 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM - 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| **TOTAL** | **0** | **0** | **0** | **1** | **0** | **0** | **0** | **0** | **0** | **0** | **1** | **0** | **0** | **1** | **1** | **0** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 4:00 PM - 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM - 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM - 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM - 5:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM - 5:15 PM | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM - 5:30 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
| 5:30 PM - 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM - 6:00 PM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL** | **0** | **0** | **1** | **0** | **2** | **2** | **1** | **0** | **0** | **3** | **2** | **0** | **0** | **1** | **0** | **0** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:30 AM - 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM - 6:00 PM | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 1 | 0 | 0 |

| | Bikes | Peds |
|---|---|---|
| AM Peak Total | 0 | 0 |
| PM Peak Total | **9** | **0** |



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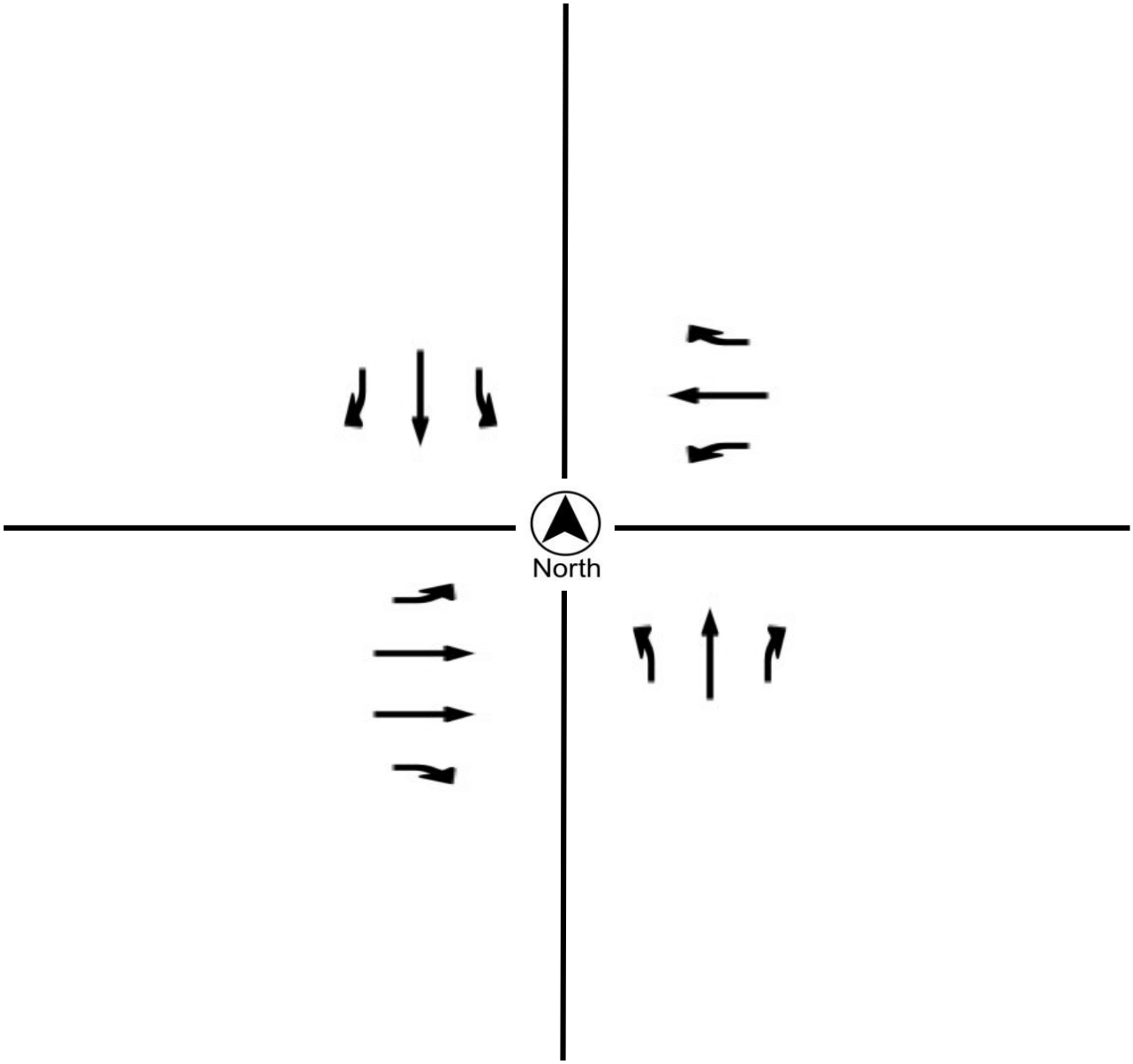
# Turning Movement Report

Prepared For:

**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

| | | | |
|---|---|---|---|
| **LOCATION** | Minnewawa Ave @ Shepherd Ave | **N/S STREET** | Minnewawa Ave |
| **COUNTY** | Fresno | **E/W STREET** | Shepherd Ave |
| **COLLECTION DATE** | Thursday, November 2, 2023 | **WEATHER** | Clear |
| **CYCLE TIME** | 108 Seconds | **CONTROL TYPE** | Signal |

**COMMENTS** All approaches have protected left turns



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# Turning Movement Report

Prepared For:

**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

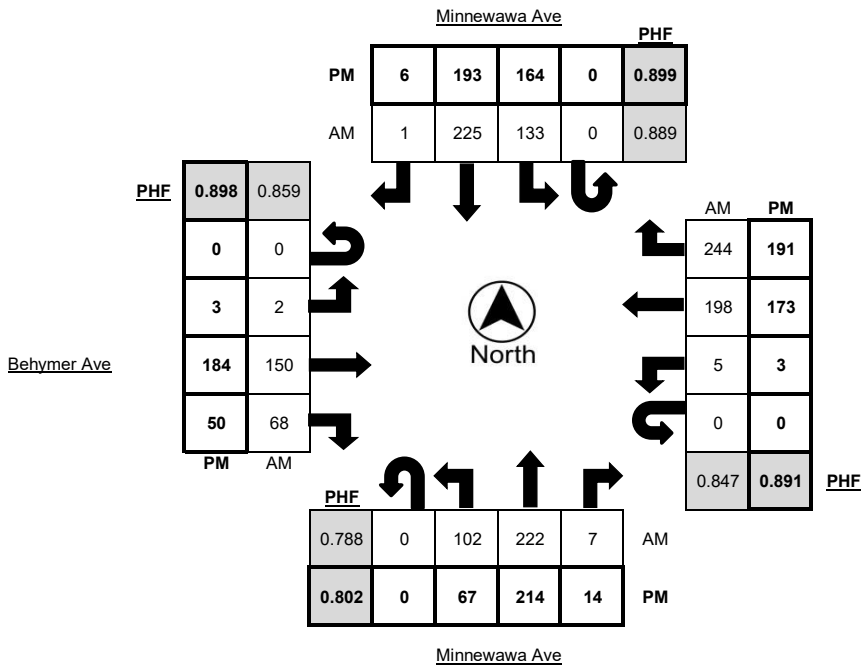
**LOCATION** Minnewawa Ave @ Behymer Ave
**LATITUDE** 36.8812
**COUNTY** Fresno
**LONGITUDE** -119.7112
**COLLECTION DATE** Thursday, September 14, 2023
**WEATHER** Clear

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | **U-Turn** | **Left** | **Thru** | **Right** | **Trucks** | **U-Turn** | **Left** | **Thru** | **Right** | **Trucks** | **U-Turn** | **Left** | **Thru** | **Right** | **Trucks** | **U-Turn** | **Left** | **Thru** | **Right** | **Trucks** |
| **7:00 AM - 7:15 AM** | 0 | 2 | 33 | 1 | 2 | 0 | 26 | 36 | 0 | 2 | 0 | 0 | 26 | 9 | 0 | 0 | 3 | 32 | 45 | 1 |
| **7:15 AM - 7:30 AM** | 0 | 9 | 40 | 2 | 1 | 0 | 36 | 39 | 0 | 1 | 0 | 0 | 27 | 9 | 1 | 0 | 3 | 46 | 44 | 3 |
| **7:30 AM - 7:45 AM** | 0 | 33 | 42 | 1 | 2 | 0 | 35 | 48 | 0 | 2 | 0 | 0 | 37 | 10 | 1 | 0 | 3 | 72 | 48 | 1 |
| **7:45 AM - 8:00 AM** | 0 | 28 | 47 | 1 | 2 | 0 | 25 | 51 | 0 | 0 | 0 | 2 | 36 | 26 | 1 | 0 | 2 | 54 | 76 | 5 |
| **8:00 AM - 8:15 AM** | 0 | 14 | 59 | 1 | 2 | 0 | 33 | 68 | 0 | 3 | 0 | 0 | 36 | 16 | 2 | 0 | 0 | 34 | 68 | 3 |
| **8:15 AM - 8:30 AM** | 0 | 27 | 74 | 4 | 3 | 0 | 40 | 58 | 1 | 3 | 0 | 0 | 41 | 16 | 1 | 0 | 0 | 38 | 52 | 1 |
| **8:30 AM - 8:45 AM** | 0 | 8 | 44 | 3 | 3 | 0 | 36 | 52 | 1 | 3 | 0 | 2 | 24 | 16 | 4 | 0 | 1 | 32 | 41 | 4 |
| **8:45 AM - 9:00 AM** | 0 | 9 | 42 | 2 | 2 | 0 | 22 | 36 | 0 | 3 | 0 | 1 | 15 | 11 | 0 | 0 | 4 | 43 | 36 | 3 |
| **TOTAL** | **0** | **130** | **381** | **15** | **17** | **0** | **253** | **388** | **2** | **17** | **0** | **5** | **242** | **113** | **10** | **0** | **16** | **351** | **410** | **21** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | **U-Turn** | **Left** | **Thru** | **Right** | **Trucks** | **U-Turn** | **Left** | **Thru** | **Right** | **Trucks** | **U-Turn** | **Left** | **Thru** | **Right** | **Trucks** | **U-Turn** | **Left** | **Thru** | **Right** | **Trucks** |
| **4:00 PM - 4:15 PM** | 0 | 16 | 55 | 2 | 0 | 0 | 26 | 45 | 0 | 0 | 0 | 0 | 46 | 14 | 0 | 0 | 0 | 35 | 30 | 2 |
| **4:15 PM - 4:30 PM** | 0 | 11 | 49 | 2 | 1 | 0 | 34 | 52 | 1 | 2 | 0 | 4 | 25 | 6 | 1 | 0 | 3 | 37 | 32 | 1 |
| **4:30 PM - 4:45 PM** | 0 | 14 | 57 | 1 | 1 | 0 | 37 | 36 | 0 | 2 | 0 | 0 | 40 | 10 | 0 | 0 | 0 | 22 | 39 | 0 |
| **4:45 PM - 5:00 PM** | 0 | 10 | 56 | 3 | 0 | 0 | 39 | 59 | 0 | 1 | 0 | 2 | 26 | 1 | 0 | 0 | 1 | 38 | 39 | 1 |
| **5:00 PM - 5:15 PM** | 0 | 11 | 51 | 1 | 0 | 0 | 38 | 40 | 3 | 2 | 0 | 0 | 39 | 11 | 0 | 0 | 1 | 41 | 56 | 0 |
| **5:15 PM - 5:30 PM** | 0 | 27 | 59 | 6 | 0 | 0 | 40 | 61 | 0 | 2 | 0 | 0 | 56 | 10 | 0 | 0 | 1 | 47 | 55 | 0 |
| **5:30 PM - 5:45 PM** | 0 | 20 | 61 | 4 | 1 | 0 | 45 | 43 | 1 | 0 | 0 | 2 | 55 | 7 | 1 | 0 | 1 | 42 | 46 | 0 |
| **5:45 PM - 6:00 PM** | 0 | 9 | 43 | 3 | 0 | 0 | 41 | 49 | 2 | 1 | 0 | 1 | 34 | 22 | 1 | 0 | 0 | 43 | 34 | 0 |
| **TOTAL** | **0** | **118** | **431** | **22** | **3** | **0** | **300** | **385** | **7** | **10** | **0** | **9** | **321** | **81** | **3** | **0** | **7** | **305** | **331** | **4** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PEAK HOUR** | **U-Turn** | **Left** | **Thru** | **Right** | **Trucks** | **U-Turn** | **Left** | **Thru** | **Right** | **Trucks** | **U-Turn** | **Left** | **Thru** | **Right** | **Trucks** | **U-Turn** | **Left** | **Thru** | **Right** | **Trucks** |
| **7:30 AM - 8:30 AM** | 0 | 102 | 222 | 7 | 9 | 0 | 133 | 225 | 1 | 8 | 0 | 2 | 150 | 68 | 5 | 0 | 5 | 198 | 244 | 10 |
| **5:00 PM - 6:00 PM** | 0 | 67 | 214 | 14 | 1 | 0 | 164 | 193 | 6 | 5 | 0 | 3 | 184 | 50 | 2 | 0 | 3 | 173 | 191 | 0 |

| | PHF | Trucks |
|---|---|---|
| **AM** | 0.967 | 2.4% |
| **PM** | 0.872 | 0.6% |



**Metro Traffic Data Inc.**
310 N. Irwin Street - Suite 20
Hanford, CA 93230

800-975-6938 Phone/Fax
www.metrotrafficdata.com

# Turning Movement Report

Prepared For:

**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

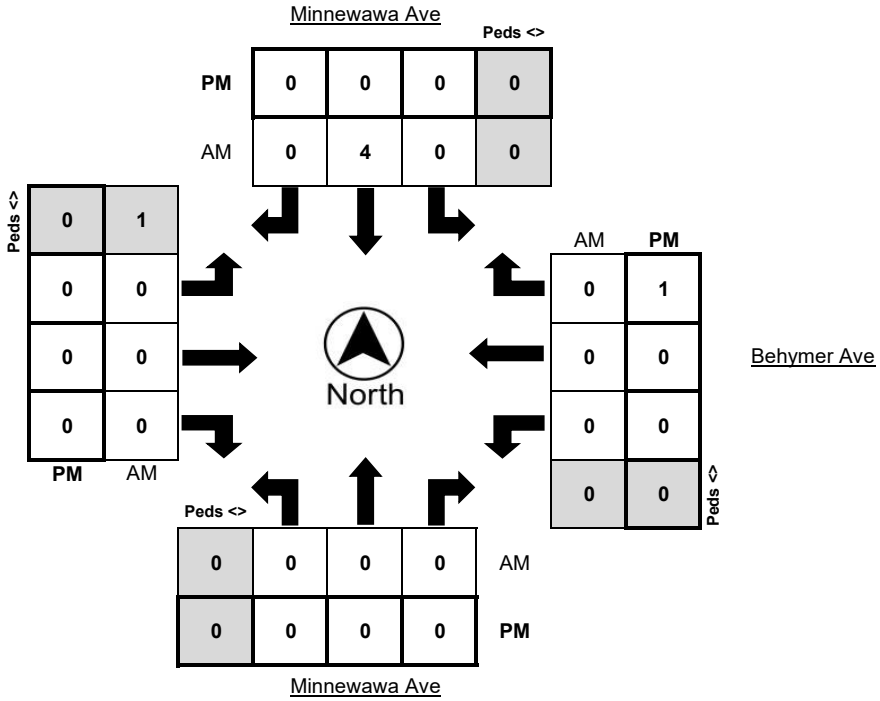
**LOCATION** Minnewawa Ave @ Behymer Ave
**LATITUDE** 36.8812
**COUNTY** Fresno
**LONGITUDE** -119.7112
**COLLECTION DATE** Thursday, September 14, 2023
**WEATHER** Clear

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:00 AM - 7:15 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM - 7:30 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM - 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM - 8:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:00 AM - 8:15 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM - 8:30 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM - 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM - 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL** | **0** | **1** | **0** | **0** | **0** | **6** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **1** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 4:00 PM - 4:15 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM - 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM - 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM - 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM - 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM - 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM - 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 5:45 PM - 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL** | **0** | **1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **1** | **0** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:30 AM - 8:30 AM | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00 PM - 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |

| | Bikes | Peds |
|---|---|---|
| AM Peak Total | 4 | 1 |
| PM Peak Total | 1 | 0 |



**Metro Traffic Data Inc.**
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Hanford, CA 93230

800-975-6938 Phone/Fax
www.metrotrafficdata.com

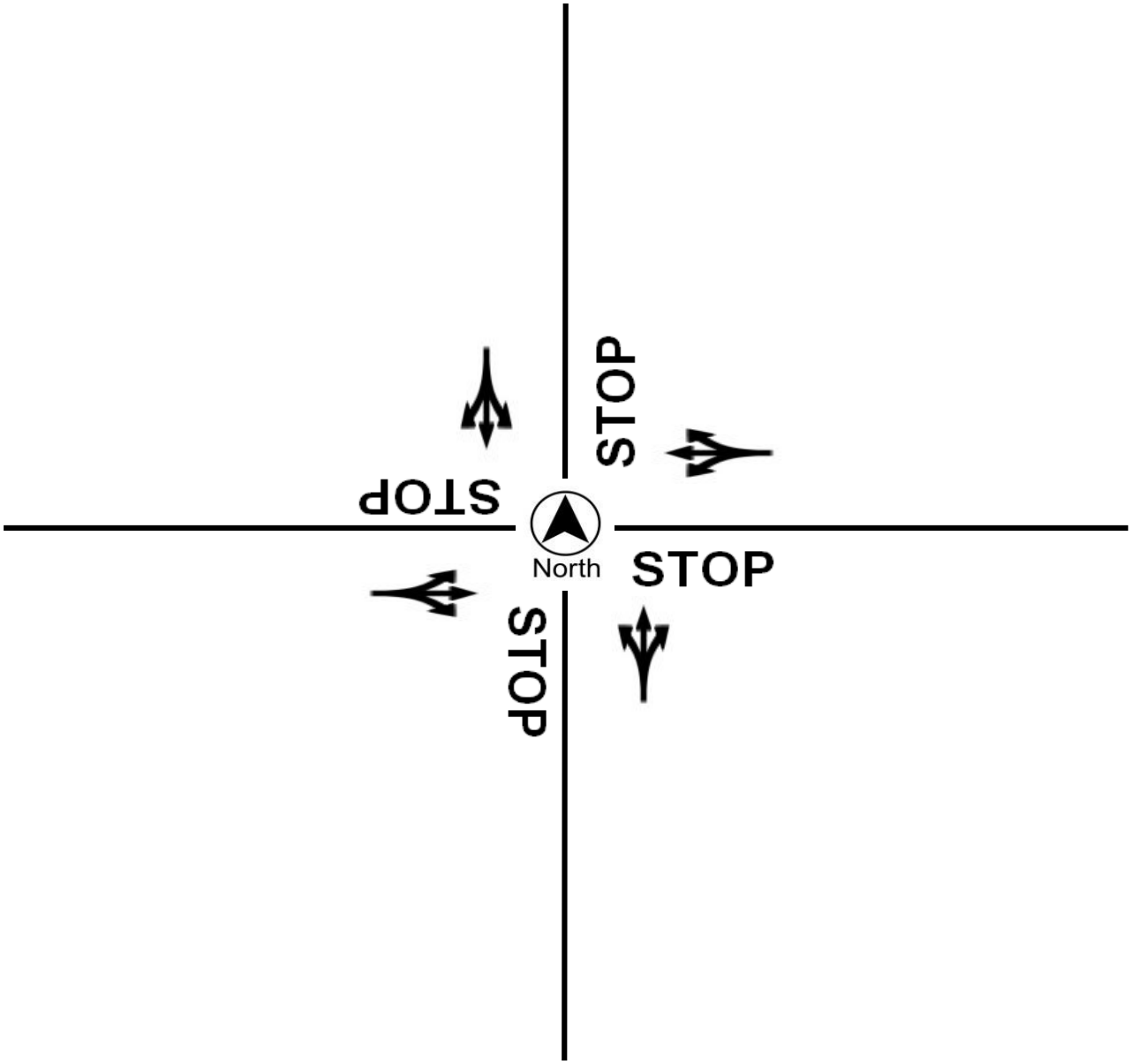
# Turning Movement Report

Prepared For:

**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

| | | | |
|---|---|---|---|
| **LOCATION** | Minnewawa Ave @ Behymer Ave | **N/S STREET** | Minnewawa Ave / Minnewawa Ave |
| **COUNTY** | Fresno | **E/W STREET** | Behymer Ave / Behymer Ave |
| **COLLECTION DATE** | Thursday, September 14, 2023 | **WEATHER** | Clear |
| **CYCLE TIME** | N/A | **CONTROL TYPE** | All-Way Stop |

**COMMENTS**



**Metro Traffic Data Inc.**
310 N. Irwin Street - Suite 20
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800-975-6938 Phone/Fax
www.metrotrafficdata.com

# Turning Movement Report

Prepared For:
**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

**LOCATION** Willow Ave @ Behymer Ave
**COUNTY** Fresno
**COLLECTION DATE** Thursday, September 14, 2023

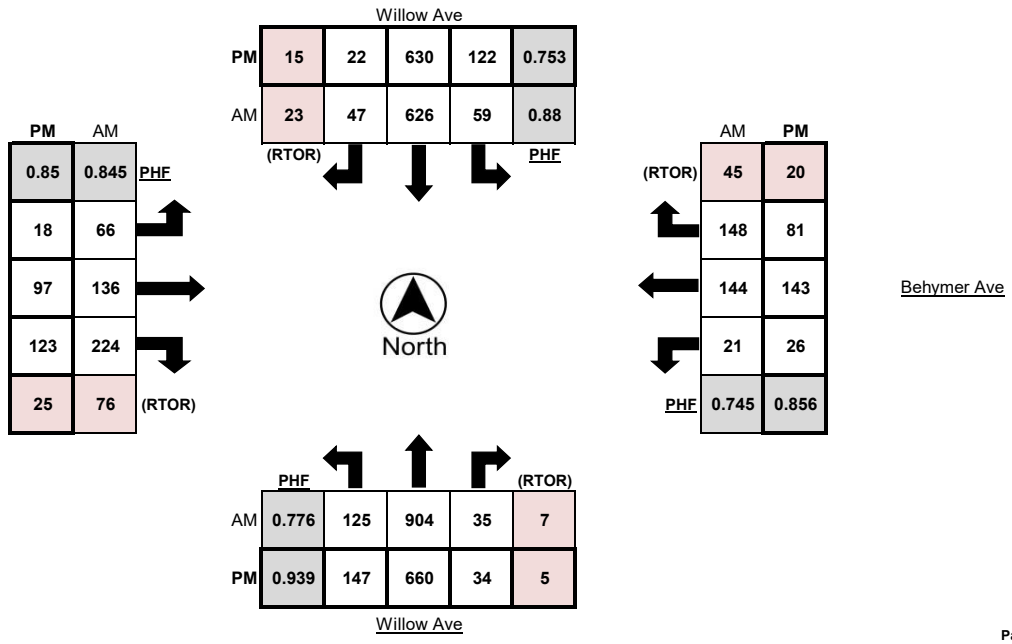
**LATITUDE** 36.8814
**LONGITUDE** -119.7299
**WEATHER** Clear

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | **Left** | **Thru** | **Right** | **(RTOR)** | **Trucks** | **Left** | **Thru** | **Right** | **(RTOR)** | **Trucks** | **Left** | **Thru** | **Right** | **(RTOR)** | **Trucks** | **Left** | **Thru** | **Right** | **(RTOR)** | **Trucks** |
| **7:00 AM - 7:15 AM** | 15 | 68 | 5 | 2 | 4 | 9 | 74 | 4 | 2 | 1 | 15 | 19 | 21 | 5 | 2 | 2 | 19 | 13 | 6 | 0 |
| **7:15 AM - 7:30 AM** | 13 | 95 | 11 | 4 | 2 | 7 | 107 | 10 | 3 | 2 | 4 | 23 | 31 | 7 | 0 | 7 | 21 | 16 | 4 | 1 |
| **7:30 AM - 7:45 AM** | 29 | 147 | 9 | 3 | 4 | 10 | 127 | 10 | 7 | 4 | 9 | 30 | 62 | 23 | 1 | 7 | 60 | 38 | 18 | 1 |
| **7:45 AM - 8:00 AM** | 30 | 223 | 10 | 3 | 3 | 16 | 159 | 12 | 9 | 0 | 19 | 38 | 69 | 24 | 4 | 5 | 36 | 47 | 16 | 1 |
| **8:00 AM - 8:15 AM** | 27 | 239 | 7 | 1 | 6 | 18 | 163 | 9 | 1 | 2 | 18 | 35 | 53 | 14 | 3 | 3 | 22 | 32 | 7 | 4 |
| **8:15 AM - 8:30 AM** | 39 | 295 | 9 | 0 | 3 | 15 | 177 | 16 | 6 | 7 | 20 | 33 | 40 | 15 | 4 | 6 | 26 | 31 | 4 | 2 |
| **8:30 AM - 8:45 AM** | 23 | 144 | 8 | 0 | 3 | 12 | 174 | 16 | 6 | 4 | 12 | 22 | 45 | 14 | 1 | 2 | 15 | 20 | 6 | 0 |
| **8:45 AM - 9:00 AM** | 30 | 128 | 4 | 0 | 1 | 8 | 86 | 0 | 0 | 1 | 5 | 16 | 21 | 5 | 1 | 11 | 21 | 23 | 8 | 0 |
| **TOTAL** | **206** | **1339** | **63** | **13** | **26** | **95** | **1067** | **77** | **34** | **21** | **102** | **216** | **342** | **107** | **16** | **43** | **220** | **220** | **69** | **9** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | **Left** | **Thru** | **Right** | **(RTOR)** | **Trucks** | **Left** | **Thru** | **Right** | **(RTOR)** | **Trucks** | **Left** | **Thru** | **Right** | **(RTOR)** | **Trucks** | **Left** | **Thru** | **Right** | **(RTOR)** | **Trucks** |
| **4:00 PM - 4:15 PM** | 31 | 122 | 11 | 1 | 2 | 19 | 120 | 6 | 5 | 2 | 10 | 37 | 48 | 13 | 0 | 6 | 29 | 16 | 5 | 1 |
| **4:15 PM - 4:30 PM** | 28 | 139 | 6 | 0 | 2 | 16 | 127 | 4 | 1 | 0 | 4 | 16 | 19 | 5 | 1 | 9 | 26 | 16 | 8 | 0 |
| **4:30 PM - 4:45 PM** | 26 | 156 | 9 | 1 | 3 | 17 | 115 | 4 | 2 | 1 | 1 | 27 | 28 | 8 | 0 | 3 | 25 | 9 | 4 | 1 |
| **4:45 PM - 5:00 PM** | 20 | 144 | 6 | 2 | 1 | 14 | 102 | 3 | 1 | 0 | 3 | 14 | 21 | 4 | 0 | 8 | 26 | 16 | 4 | 1 |
| **5:00 PM - 5:15 PM** | 28 | 149 | 9 | 2 | 1 | 19 | 136 | 6 | 4 | 3 | 3 | 19 | 32 | 6 | 0 | 8 | 29 | 19 | 6 | 0 |
| **5:15 PM - 5:30 PM** | 37 | 176 | 7 | 1 | 0 | 47 | 204 | 6 | 5 | 0 | 2 | 27 | 24 | 4 | 0 | 7 | 43 | 23 | 2 | 0 |
| **5:30 PM - 5:45 PM** | 48 | 164 | 12 | 1 | 1 | 37 | 144 | 4 | 3 | 2 | 6 | 16 | 39 | 3 | 0 | 3 | 40 | 23 | 6 | 0 |
| **5:45 PM - 6:00 PM** | 34 | 171 | 6 | 1 | 0 | 19 | 146 | 6 | 3 | 2 | 7 | 35 | 28 | 12 | 1 | 8 | 31 | 16 | 6 | 0 |
| **TOTAL** | **252** | **1221** | **66** | **9** | **10** | **188** | **1094** | **39** | **24** | **10** | **36** | **191** | **239** | **55** | **2** | **52** | **249** | **138** | **41** | **3** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PEAK HOUR** | **Left** | **Thru** | **Right** | **(RTOR)** | **Trucks** | **Left** | **Thru** | **Right** | **(RTOR)** | **Trucks** | **Left** | **Thru** | **Right** | **(RTOR)** | **Trucks** | **Left** | **Thru** | **Right** | **(RTOR)** | **Trucks** |
| **7:30 AM - 8:30 AM** | 125 | 904 | 35 | 7 | 16 | 59 | 626 | 47 | 23 | 13 | 66 | 136 | 224 | 76 | 12 | 21 | 144 | 148 | 45 | 8 |
| **5:00 PM - 6:00 PM** | 147 | 660 | 34 | 5 | 2 | 122 | 630 | 22 | 15 | 7 | 18 | 97 | 123 | 25 | 1 | 26 | 143 | 81 | 20 | 0 |

| | PHF | Trucks |
|---|---|---|
| **AM** | 0.896 | 1.9% |
| **PM** | 0.872 | 0.5% |



**Metro Traffic Data Inc.**
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Hanford, CA 93230

800-975-6938 Phone/Fax
www.metrotrafficdata.com

# Turning Movement Report

Prepared For:

**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

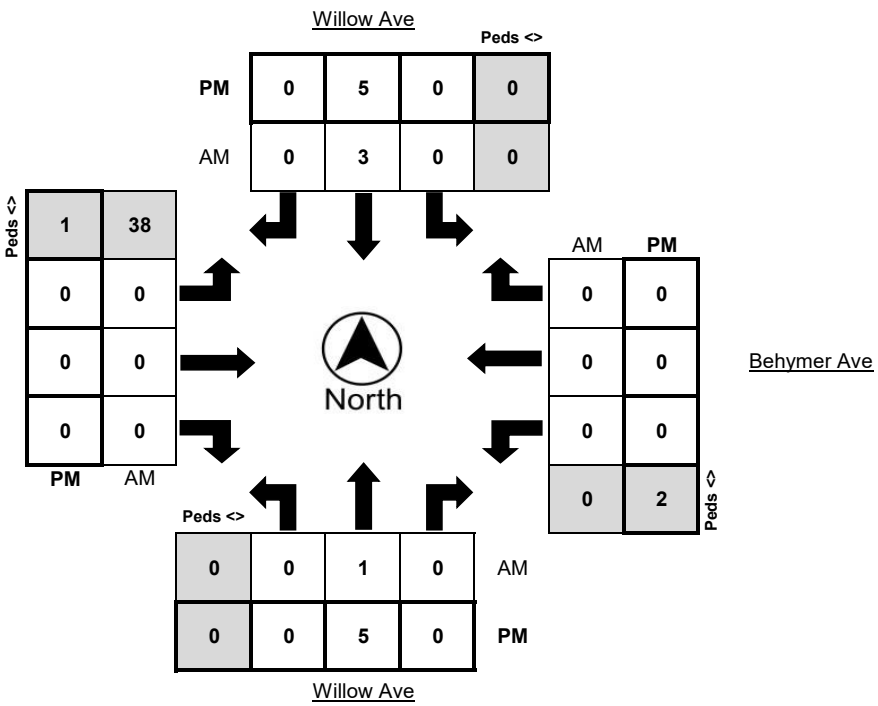
**LOCATION** Willow Ave @ Behymer Ave
**LATITUDE** 36.8814
**COUNTY** Fresno
**LONGITUDE** -119.7299
**COLLECTION DATE** Thursday, September 14, 2023
**WEATHER** Clear

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:00 AM - 7:15 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM - 7:30 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 7:30 AM - 7:45 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 7:45 AM - 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 8:00 AM - 8:15 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 8:15 AM - 8:30 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 8:30 AM - 8:45 AM | 0 | 4 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 8:45 AM - 9:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| **TOTAL** | **0** | **6** | **0** | **0** | **0** | **9** | **0** | **0** | **1** | **0** | **0** | **0** | **0** | **0** | **0** | **56** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 4:00 PM - 4:15 PM | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM - 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM - 4:45 PM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| 4:45 PM - 5:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM - 5:15 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 5:15 PM - 5:30 PM | 0 | 1 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 5:30 PM - 5:45 PM | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM - 6:00 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL** | **0** | **5** | **0** | **0** | **0** | **13** | **0** | **0** | **0** | **0** | **0** | **5** | **0** | **0** | **0** | **1** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:30 AM - 8:30 AM | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| 5:00 PM - 6:00 PM | 0 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 |

| | Bikes | Peds |
|---|---|---|
| AM Peak Total | 4 | 38 |
| PM Peak Total | 10 | 3 |



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www.metrotrafficdata.com

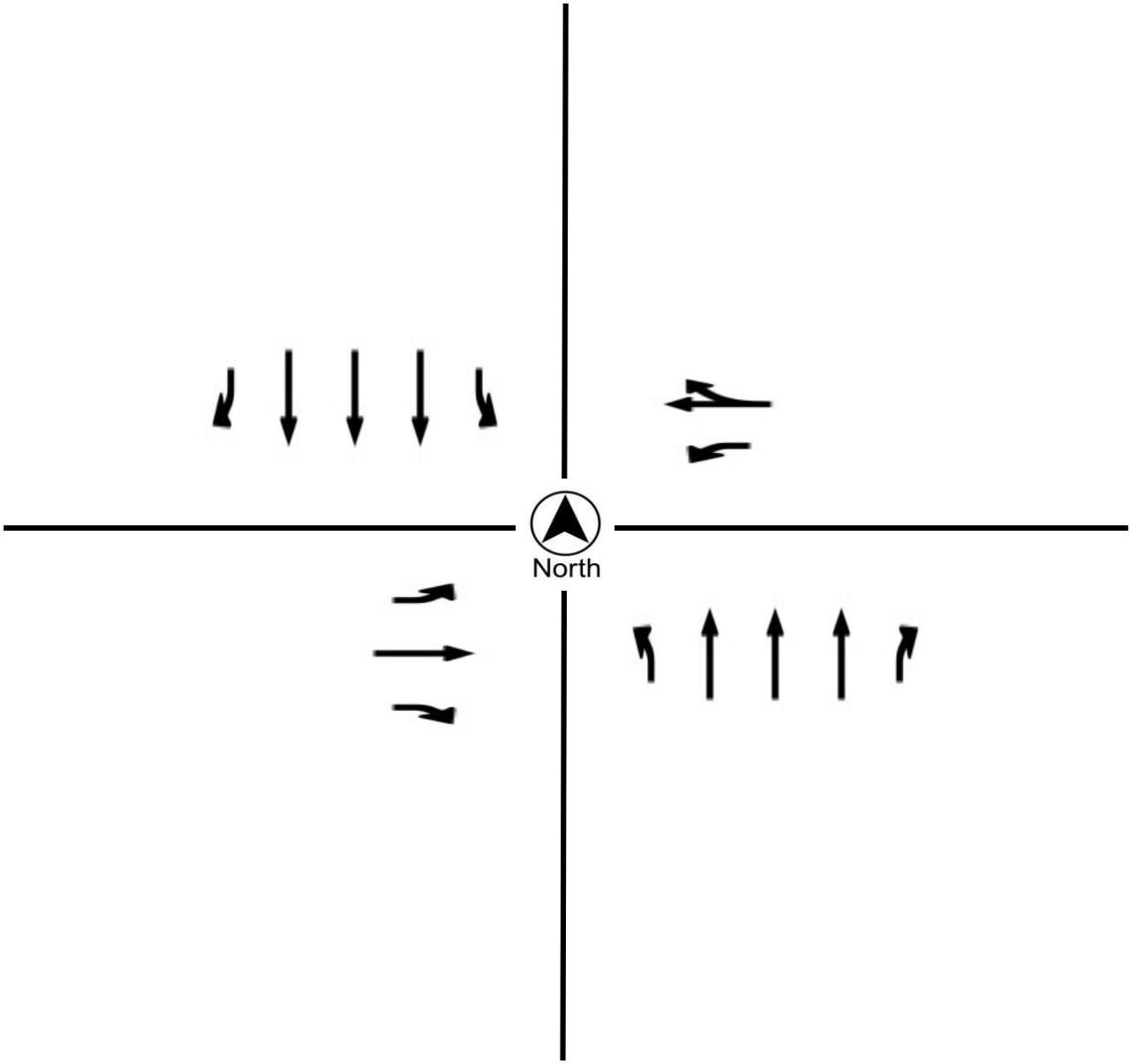
# Turning Movement Report

Prepared For:

**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

| | | | |
|---|---|---|---|
| **LOCATION** | Willow Ave @ Behymer Ave | **N/S STREET** | Willow Ave |
| **COUNTY** | Fresno | **E/W STREET** | Behymer Ave |
| **COLLECTION DATE** | Thursday, September 14, 2023 | **WEATHER** | Clear |
| **CYCLE TIME** | 58 Seconds | **CONTROL TYPE** | Signal |

**COMMENTS** All approaches have protected left turns.



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# Turning Movement Report

Prepared For:
**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

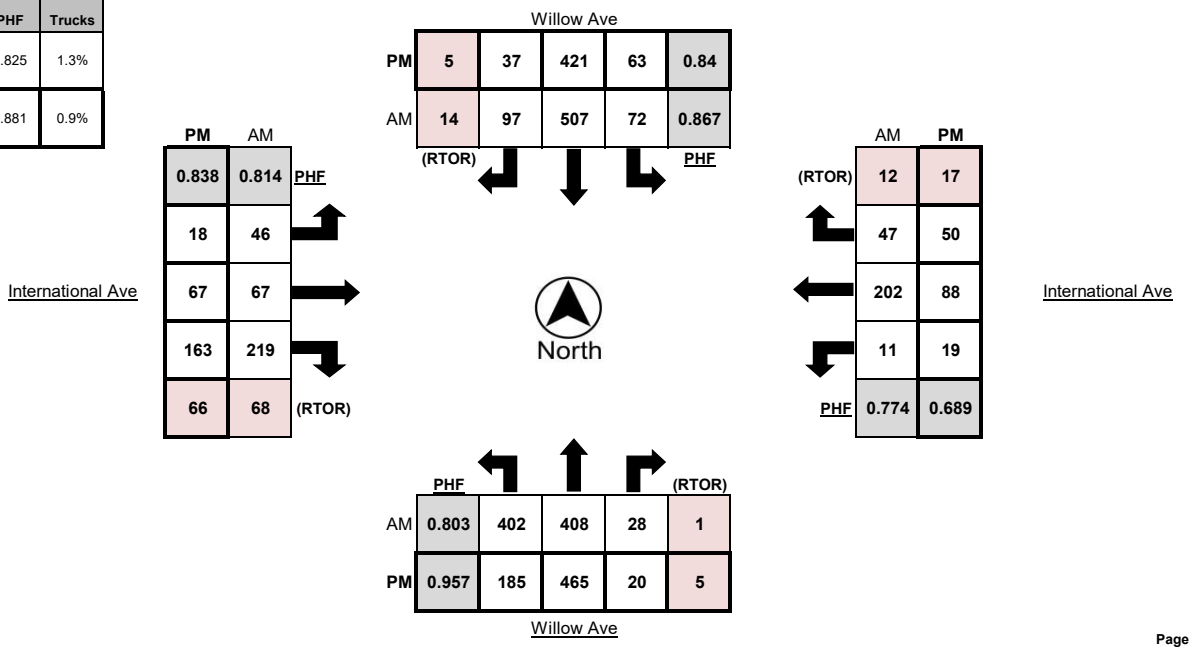
**LOCATION** Willow Ave @ International Ave
**COUNTY** Fresno
**COLLECTION DATE** Thursday, September 14, 2023
**LATITUDE** 36.8887
**LONGITUDE** -119.7299
**WEATHER** Clear

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks |
| 7:00 AM - 7:15 AM | 35 | 54 | 3 | 0 | 4 | 2 | 69 | 5 | 0 | 1 | 1 | 7 | 14 | 8 | 1 | 0 | 30 | 8 | 1 | 1 |
| 7:15 AM - 7:30 AM | 49 | 53 | 0 | 0 | 4 | 12 | 105 | 2 | 0 | 1 | 1 | 10 | 21 | 11 | 1 | 1 | 29 | 10 | 5 | 0 |
| 7:30 AM - 7:45 AM | 63 | 49 | 1 | 0 | 3 | 6 | 116 | 9 | 0 | 3 | 2 | 15 | 30 | 12 | 1 | 3 | 31 | 14 | 5 | 0 |
| 7:45 AM - 8:00 AM | 86 | 90 | 8 | 0 | 3 | 10 | 115 | 8 | 3 | 0 | 7 | 11 | 44 | 13 | 0 | 6 | 43 | 13 | 6 | 0 |
| 8:00 AM - 8:15 AM | 125 | 106 | 10 | 0 | 3 | 12 | 132 | 25 | 2 | 2 | 5 | 18 | 43 | 14 | 1 | 3 | 66 | 15 | 1 | 0 |
| 8:15 AM - 8:30 AM | 135 | 122 | 4 | 1 | 3 | 26 | 129 | 40 | 6 | 10 | 17 | 18 | 67 | 19 | 0 | 2 | 68 | 10 | 1 | 0 |
| 8:30 AM - 8:45 AM | 56 | 90 | 6 | 0 | 1 | 24 | 131 | 24 | 3 | 2 | 17 | 20 | 65 | 22 | 1 | 0 | 25 | 9 | 4 | 1 |
| 8:45 AM - 9:00 AM | 19 | 75 | 11 | 0 | 0 | 4 | 66 | 4 | 1 | 1 | 1 | 11 | 19 | 11 | 0 | 3 | 6 | 4 | 3 | 1 |
| **TOTAL** | **568** | **639** | **43** | **1** | **21** | **96** | **863** | **117** | **15** | **20** | **51** | **110** | **303** | **110** | **5** | **18** | **298** | **83** | **26** | **3** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks |
| 4:00 PM - 4:15 PM | 40 | 81 | 3 | 1 | 1 | 5 | 75 | 9 | 2 | 1 | 2 | 16 | 36 | 13 | 1 | 3 | 19 | 8 | 4 | 0 |
| 4:15 PM - 4:30 PM | 28 | 113 | 3 | 1 | 1 | 6 | 82 | 7 | 1 | 0 | 4 | 14 | 42 | 11 | 0 | 0 | 20 | 6 | 3 | 1 |
| 4:30 PM - 4:45 PM | 44 | 112 | 4 | 1 | 3 | 12 | 84 | 6 | 3 | 0 | 3 | 19 | 23 | 9 | 1 | 4 | 21 | 13 | 1 | 0 |
| 4:45 PM - 5:00 PM | 42 | 120 | 7 | 2 | 1 | 7 | 69 | 8 | 1 | 1 | 1 | 6 | 33 | 17 | 0 | 2 | 17 | 12 | 5 | 0 |
| 5:00 PM - 5:15 PM | 51 | 111 | 4 | 1 | 0 | 17 | 96 | 8 | 1 | 3 | 5 | 13 | 44 | 19 | 2 | 2 | 14 | 12 | 5 | 0 |
| 5:15 PM - 5:30 PM | 52 | 119 | 4 | 1 | 0 | 18 | 129 | 8 | 1 | 1 | 3 | 14 | 49 | 20 | 1 | 8 | 35 | 14 | 3 | 0 |
| 5:30 PM - 5:45 PM | 51 | 111 | 8 | 2 | 0 | 18 | 103 | 15 | 1 | 2 | 4 | 14 | 28 | 11 | 1 | 4 | 28 | 13 | 5 | 1 |
| 5:45 PM - 6:00 PM | 31 | 124 | 4 | 1 | 1 | 10 | 93 | 6 | 2 | 2 | 6 | 26 | 42 | 16 | 1 | 5 | 11 | 11 | 4 | 0 |
| **TOTAL** | **339** | **891** | **37** | **10** | **7** | **93** | **731** | **67** | **12** | **10** | **28** | **122** | **297** | **116** | **7** | **28** | **165** | **89** | **30** | **2** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks |
| 7:45 AM - 8:45 AM | 402 | 408 | 28 | 1 | 10 | 72 | 507 | 97 | 14 | 14 | 46 | 67 | 219 | 68 | 2 | 11 | 202 | 47 | 12 | 1 |
| 5:00 PM - 6:00 PM | 185 | 465 | 20 | 5 | 1 | 63 | 421 | 37 | 5 | 8 | 18 | 67 | 163 | 66 | 5 | 19 | 88 | 50 | 17 | 1 |

| | PHF | Trucks |
|---|---|---|
| AM | 0.825 | 1.3% |
| PM | 0.881 | 0.9% |



**Metro Traffic Data Inc.**
310 N. Irwin Street - Suite 20
Hanford, CA 93230

800-975-6938 Phone/Fax
www.metrotrafficdata.com

# Turning Movement Report

Prepared For:

**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

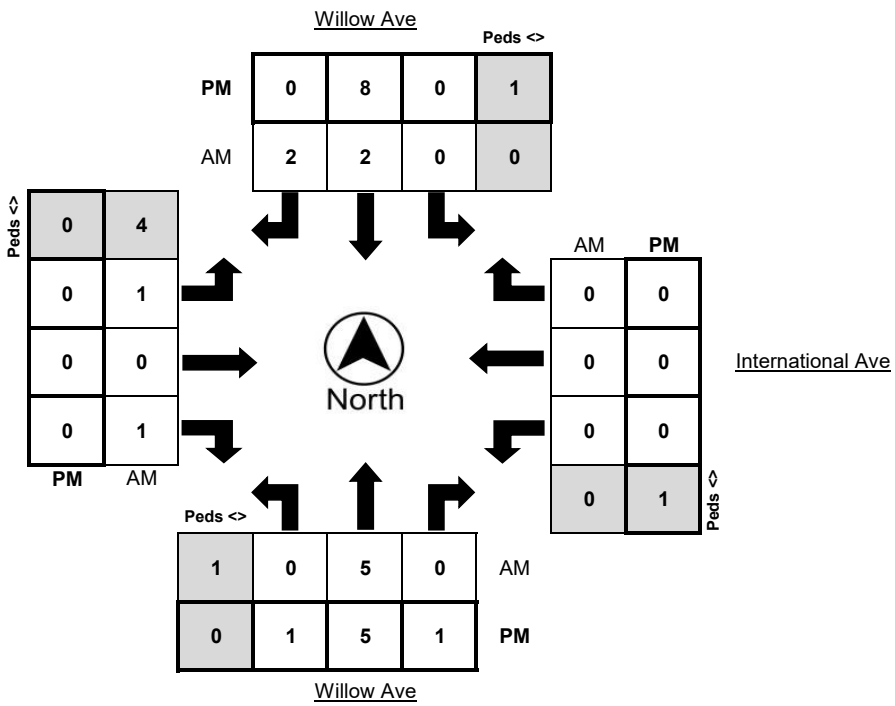
**LOCATION** Willow Ave @ International Ave
**LATITUDE** 36.8887
**COUNTY** Fresno
**LONGITUDE** -119.7299
**COLLECTION DATE** Thursday, September 14, 2023
**WEATHER** Clear

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:00 AM - 7:15 AM | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM - 7:30 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 7:30 AM - 7:45 AM | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 7:45 AM - 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 8:00 AM - 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:15 AM - 8:30 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:30 AM - 8:45 AM | 0 | 4 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM - 9:00 AM | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL** | **0** | **8** | **0** | **0** | **0** | **9** | **2** | **2** | **2** | **0** | **1** | **0** | **0** | **1** | **0** | **6** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 4:00 PM - 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM - 4:30 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM - 4:45 PM | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM - 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM - 5:15 PM | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM - 5:30 PM | 1 | 1 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM - 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM - 6:00 PM | 0 | 4 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| **TOTAL** | **1** | **8** | **1** | **2** | **0** | **9** | **0** | **0** | **0** | **0** | **0** | **1** | **0** | **0** | **0** | **0** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:45 AM - 8:45 AM | 0 | 5 | 0 | 0 | 0 | 2 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 5:00 PM - 6:00 PM | 1 | 5 | 1 | 1 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

| | Bikes | Peds |
|---|---|---|
| AM Peak Total | 11 | 5 |
| PM Peak Total | **15** | **2** |



**Metro Traffic Data Inc.**
310 N. Irwin Street - Suite 20
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www.metrotrafficdata.com

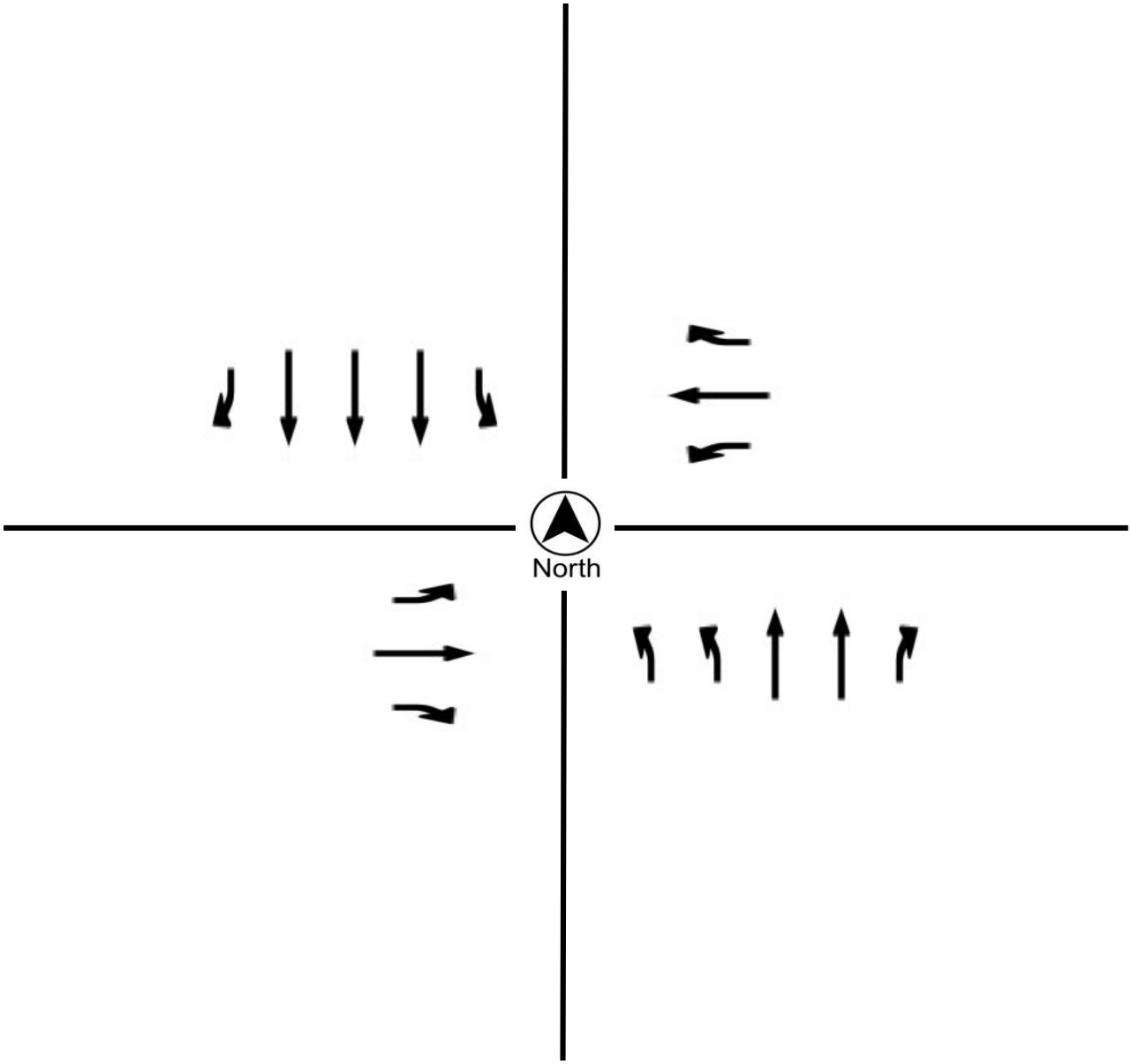
# Turning Movement Report

Prepared For:

**Peters Engineering Group**
862 Pollasky Ave
Clovis, CA 93612

| | | | |
|---|---|---|---|
| **LOCATION** | Willow Ave @ International Ave | **N/S STREET** | Willow Ave |
| **COUNTY** | Fresno | **E/W STREET** | International Ave |
| **COLLECTION DATE** | Thursday, September 14, 2023 | **WEATHER** | Clear |
| **CYCLE TIME** | | **CONTROL TYPE** | Signal |

**COMMENTS** All approaches have protected left turns.



# APPENDIX C

## INTERSECTION ANALYSES

PETERS ENGINEERING GROUP
A CALIFORNIA CORPORATION

# 1: Willow Ave & International Ave
## HCM 6th Signalized Intersection Summary

12/12/2023

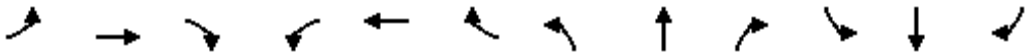
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 46 | 67 | 219 | 11 | 202 | 47 | 402 | 408 | 28 | 72 | 507 | 97 |
| Future Volume (veh/h) | 46 | 67 | 219 | 11 | 202 | 47 | 402 | 408 | 28 | 72 | 507 | 97 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.97 | 1.00 | | 0.97 | 1.00 | | 0.96 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 55 | 81 | 182 | 13 | 243 | 43 | 484 | 492 | 33 | 87 | 611 | 100 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 94 | 430 | 354 | 29 | 363 | 297 | 674 | 1226 | 525 | 122 | 1115 | 336 |
| Arrive On Green | 0.05 | 0.23 | 0.23 | 0.02 | 0.19 | 0.19 | 0.20 | 0.34 | 0.34 | 0.07 | 0.22 | 0.22 |
| Sat Flow, veh/h | 1781 | 1870 | 1539 | 1781 | 1870 | 1534 | 3456 | 3554 | 1524 | 1781 | 5106 | 1538 |
| Grp Volume(v), veh/h | 55 | 81 | 182 | 13 | 243 | 43 | 484 | 492 | 33 | 87 | 611 | 100 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1539 | 1781 | 1870 | 1534 | 1728 | 1777 | 1524 | 1781 | 1702 | 1538 |
| Q Serve(g_s), s | 1.6 | 1.8 | 5.4 | 0.4 | 6.3 | 1.2 | 6.9 | 5.5 | 0.8 | 2.5 | 5.6 | 2.8 |
| Cycle Q Clear(g_c), s | 1.6 | 1.8 | 5.4 | 0.4 | 6.3 | 1.2 | 6.9 | 5.5 | 0.8 | 2.5 | 5.6 | 2.8 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 94 | 430 | 354 | 29 | 363 | 297 | 674 | 1226 | 525 | 122 | 1115 | 336 |
| V/C Ratio(X) | 0.59 | 0.19 | 0.51 | 0.44 | 0.67 | 0.14 | 0.72 | 0.40 | 0.06 | 0.71 | 0.55 | 0.30 |
| Avail Cap(c_a), veh/h | 272 | 861 | 709 | 204 | 790 | 648 | 1386 | 2111 | 905 | 374 | 2058 | 620 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 24.2 | 16.2 | 17.6 | 25.5 | 19.5 | 17.5 | 19.7 | 13.0 | 11.5 | 23.9 | 18.2 | 17.1 |
| Incr Delay (d2), s/veh | 5.7 | 0.2 | 1.2 | 10.2 | 2.1 | 0.2 | 1.4 | 0.2 | 0.0 | 7.5 | 0.4 | 0.5 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.8 | 0.7 | 1.8 | 0.2 | 2.7 | 0.4 | 2.4 | 1.7 | 0.2 | 1.1 | 1.8 | 1.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 30.0 | 16.4 | 18.8 | 35.7 | 21.7 | 17.7 | 21.2 | 13.2 | 11.5 | 31.3 | 18.6 | 17.6 |
| LnGrp LOS | C | B | B | D | C | B | C | B | B | C | B | B |
| Approach Vol, veh/h | | 318 | | | 299 | | | 1009 | | | 798 | |
| Approach Delay, s/veh | | 20.1 | | | 21.7 | | | 17.0 | | | 19.9 | |
| Approach LOS | | C | | | C | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 7.6 | 23.0 | 4.9 | 16.9 | 14.2 | 16.3 | 6.8 | 15.0 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 11.0 | 31.1 | 6.0 | 24.1 | 21.0 | 21.1 | 8.0 | 22.1 |
| Max Q Clear Time (g_c+I1), s | 4.5 | 7.5 | 2.4 | 7.4 | 8.9 | 7.6 | 3.6 | 8.3 |
| Green Ext Time (p_c), s | 0.1 | 3.0 | 0.0 | 0.9 | 1.4 | 3.4 | 0.0 | 1.2 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 18.9 |
| HCM 6th LOS | B |

# 1: Willow Ave & International Ave
## Queues

12/12/2023



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 55 | 81 | 264 | 13 | 243 | 57 | 484 | 492 | 34 | 87 | 611 | 117 |
| v/c Ratio | 0.27 | 0.15 | 0.42 | 0.08 | 0.59 | 0.12 | 0.61 | 0.38 | 0.05 | 0.36 | 0.53 | 0.24 |
| Control Delay | 37.5 | 20.4 | 5.6 | 37.5 | 32.4 | 0.5 | 28.8 | 19.5 | 0.1 | 36.4 | 26.2 | 3.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 37.5 | 20.4 | 5.6 | 37.5 | 32.4 | 0.5 | 28.8 | 19.5 | 0.1 | 36.4 | 26.2 | 3.1 |
| Queue Length 50th (ft) | 22 | 22 | 0 | 5 | 96 | 0 | 98 | 90 | 0 | 35 | 87 | 0 |
| Queue Length 95th (ft) | 62 | 65 | 42 | 23 | 176 | 0 | 161 | 140 | 0 | 85 | 134 | 10 |
| Internal Link Dist (ft) | | 2470 | | | 1342 | | | 2623 | | | 1390 | |
| Turn Bay Length (ft) | 250 | | | | | 25 | 250 | | | 250 | | 205 |
| Base Capacity (vph) | 237 | 791 | 805 | 177 | 689 | 674 | 1207 | 1843 | 846 | 326 | 1797 | 651 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.23 | 0.10 | 0.33 | 0.07 | 0.35 | 0.08 | 0.40 | 0.27 | 0.04 | 0.27 | 0.34 | 0.18 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 4.1 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ⇕ | | | ⇕ | | | ⇕ | | | ⇕ | |
| Traffic Vol, veh/h | 3 | 0 | 89 | 0 | 0 | 0 | 265 | 205 | 0 | 0 | 269 | 5 |
| Future Vol, veh/h | 3 | 0 | 89 | 0 | 0 | 0 | 265 | 205 | 0 | 0 | 269 | 5 |
| Conflicting Peds, #/hr | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 0 | 102 | 0 | 0 | 0 | 305 | 236 | 0 | 0 | 309 | 6 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1168 | 1168 | 322 | 1219 | 1171 | 246 | 320 | 0 | 0 | 241 | 0 | 0 |
| Stage 1 | 317 | 317 | - | 851 | 851 | - | - | - | - | - | - | - |
| Stage 2 | 851 | 851 | - | 368 | 320 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 170 | 193 | 719 | 157 | 193 | 793 | 1240 | - | - | 1326 | - | - |
| Stage 1 | 694 | 654 | - | 355 | 376 | - | - | - | - | - | - | - |
| Stage 2 | 355 | 376 | - | 652 | 652 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 131 | 137 | 712 | 104 | 137 | 785 | 1234 | - | - | 1320 | - | - |
| Mov Cap-2 Maneuver | 131 | 137 | - | 104 | 137 | - | - | - | - | - | - | - |
| Stage 1 | 495 | 651 | - | 253 | 268 | - | - | - | - | - | - | - |
| Stage 2 | 253 | 268 | - | 556 | 649 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s | 12 | 0 | 5 | 0 |
| HCM LOS | B | A | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 1234 | - | - | 622 | - | 1320 | - | - |
| HCM Lane V/C Ratio | 0.247 | - | - | 0.17 | - | - | - | - |
| HCM Control Delay (s) | 8.9 | 0 | - | 12 | 0 | 0 | - | - |
| HCM Lane LOS | A | A | - | B | A | A | - | - |
| HCM 95th %tile Q(veh) | 1 | - | - | 0.6 | - | 0 | - | - |

# 3: Willow Ave & Behymer Ave
## HCM 6th Signalized Intersection Summary

12/12/2023

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 66 | 136 | 224 | 21 | 144 | 148 | 125 | 904 | 35 | 59 | 626 | 47 |
| Future Volume (veh/h) | 66 | 136 | 224 | 21 | 144 | 148 | 125 | 904 | 35 | 59 | 626 | 47 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.95 | 1.00 | | 0.94 | 1.00 | | 0.91 | 1.00 | | 0.90 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 73 | 151 | 165 | 23 | 160 | 114 | 139 | 1004 | 31 | 66 | 696 | 26 |
| Peak Hour Factor | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 109 | 540 | 433 | 48 | 251 | 179 | 179 | 1556 | 442 | 103 | 1338 | 375 |
| Arrive On Green | 0.06 | 0.29 | 0.29 | 0.03 | 0.25 | 0.25 | 0.10 | 0.30 | 0.30 | 0.06 | 0.26 | 0.26 |
| Sat Flow, veh/h | 1781 | 1870 | 1500 | 1781 | 988 | 704 | 1781 | 5106 | 1449 | 1781 | 5106 | 1432 |
| Grp Volume(v), veh/h | 73 | 151 | 165 | 23 | 0 | 274 | 139 | 1004 | 31 | 66 | 696 | 26 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1500 | 1781 | 0 | 1691 | 1781 | 1702 | 1449 | 1781 | 1702 | 1432 |
| Q Serve(g_s), s | 2.2 | 3.5 | 4.9 | 0.7 | 0.0 | 8.0 | 4.2 | 9.4 | 0.8 | 2.0 | 6.4 | 0.8 |
| Cycle Q Clear(g_c), s | 2.2 | 3.5 | 4.9 | 0.7 | 0.0 | 8.0 | 4.2 | 9.4 | 0.8 | 2.0 | 6.4 | 0.8 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.42 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 109 | 540 | 433 | 48 | 0 | 430 | 179 | 1556 | 442 | 103 | 1338 | 375 |
| V/C Ratio(X) | 0.67 | 0.28 | 0.38 | 0.48 | 0.00 | 0.64 | 0.78 | 0.65 | 0.07 | 0.64 | 0.52 | 0.07 |
| Avail Cap(c_a), veh/h | 193 | 616 | 494 | 190 | 0 | 554 | 290 | 1960 | 556 | 222 | 1765 | 495 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 25.4 | 15.2 | 15.7 | 26.5 | 0.0 | 18.3 | 24.3 | 16.6 | 13.6 | 25.5 | 17.4 | 15.3 |
| Incr Delay (d2), s/veh | 7.0 | 0.3 | 0.6 | 7.3 | 0.0 | 1.6 | 7.1 | 0.5 | 0.1 | 6.6 | 0.3 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.1 | 1.3 | 1.4 | 0.4 | 0.0 | 2.8 | 1.9 | 2.9 | 0.2 | 0.9 | 2.1 | 0.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 32.4 | 15.5 | 16.3 | 33.8 | 0.0 | 19.9 | 31.4 | 17.1 | 13.7 | 32.0 | 17.7 | 15.4 |
| LnGrp LOS | C | B | B | C | A | B | C | B | B | C | B | B |
| Approach Vol, veh/h | | 389 | | | 297 | | | 1174 | | | 788 | |
| Approach Delay, s/veh | | 19.0 | | | 21.0 | | | 18.7 | | | 18.9 | |
| Approach LOS | | B | | | C | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 7.2 | 21.7 | 5.5 | 20.8 | 9.5 | 19.4 | 7.4 | 19.0 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 6.9 | 21.2 | 5.9 | 18.2 | 9.0 | 19.1 | 6.0 | 18.1 |
| Max Q Clear Time (g_c+I1), s | 4.0 | 11.4 | 2.7 | 6.9 | 6.2 | 8.4 | 4.2 | 10.0 |
| Green Ext Time (p_c), s | 0.0 | 4.4 | 0.0 | 1.0 | 0.1 | 3.2 | 0.0 | 0.9 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 19.0 |
| HCM 6th LOS | B |

## 3: Willow Ave & Behymer Ave
## Queues





| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 73 | 151 | 249 | 23 | 324 | 139 | 1004 | 39 | 66 | 696 | 52 |
| v/c Ratio | 0.35 | 0.29 | 0.41 | 0.11 | 0.68 | 0.49 | 0.54 | 0.06 | 0.29 | 0.47 | 0.10 |
| Control Delay | 34.4 | 20.4 | 5.8 | 31.0 | 25.3 | 34.5 | 18.1 | 0.2 | 32.1 | 19.7 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 34.4 | 20.4 | 5.8 | 31.0 | 25.3 | 34.5 | 18.1 | 0.2 | 32.1 | 19.7 | 0.4 |
| Queue Length 50th (ft) | 29 | 40 | 0 | 9 | 95 | 54 | 128 | 0 | 26 | 87 | 0 |
| Queue Length 95th (ft) | #72 | 99 | 50 | 30 | 180 | #125 | 178 | 0 | 63 | 126 | 0 |
| Internal Link Dist (ft) | | 2660 | | | 5395 | | 1188 | | | 2623 | |
| Turn Bay Length (ft) | 235 | | | 88 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 216 | 733 | 738 | 213 | 661 | 325 | 2291 | 729 | 249 | 1982 | 651 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.34 | 0.21 | 0.34 | 0.11 | 0.49 | 0.43 | 0.44 | 0.05 | 0.27 | 0.35 | 0.08 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 38 |
| Intersection LOS | E |

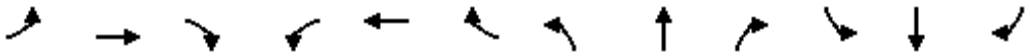
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 2 | 150 | 68 | 5 | 198 | 244 | 102 | 222 | 7 | 133 | 225 | 1 |
| Future Vol, veh/h | 2 | 150 | 68 | 5 | 198 | 244 | 102 | 222 | 7 | 133 | 225 | 1 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 2 | 155 | 70 | 5 | 204 | 252 | 105 | 229 | 7 | 137 | 232 | 1 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 20 | 52 | 31.9 | 37.1 |
| HCM LOS | C | F | D | E |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 31% | 1% | 1% | 37% |
| Vol Thru, % | 67% | 68% | 44% | 63% |
| Vol Right, % | 2% | 31% | 55% | 0% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 331 | 220 | 447 | 359 |
| LT Vol | 102 | 2 | 5 | 133 |
| Through Vol | 222 | 150 | 198 | 225 |
| RT Vol | 7 | 68 | 244 | 1 |
| Lane Flow Rate | 341 | 227 | 461 | 370 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.755 | 0.519 | 0.929 | 0.811 |
| Departure Headway (Hd) | 7.967 | 8.245 | 7.261 | 7.887 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 454 | 435 | 498 | 459 |
| Service Time | 6.053 | 6.344 | 5.337 | 5.97 |
| HCM Lane V/C Ratio | 0.751 | 0.522 | 0.926 | 0.806 |
| HCM Control Delay | 31.9 | 20 | 52 | 37.1 |
| HCM Lane LOS | D | C | F | E |
| HCM 95th-tile Q | 6.3 | 2.9 | 11.1 | 7.5 |

# 5: Minnewawa Ave & Shepherd Ave
## HCM 6th Signalized Intersection Summary

12/12/2023



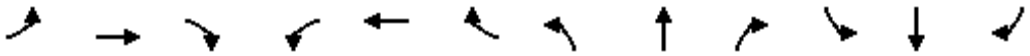
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 21 | 416 | 111 | 112 | 533 | 161 | 129 | 146 | 39 | 114 | 165 | 19 |
| Future Volume (veh/h) | 21 | 416 | 111 | 112 | 533 | 161 | 129 | 146 | 39 | 114 | 165 | 19 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.97 | 1.00 | | 0.97 | 1.00 | | 0.97 | 1.00 | | 0.95 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 22 | 443 | 101 | 119 | 567 | 87 | 137 | 155 | 32 | 121 | 176 | 7 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 47 | 1130 | 487 | 156 | 710 | 583 | 180 | 308 | 254 | 159 | 286 | 231 |
| Arrive On Green | 0.03 | 0.32 | 0.32 | 0.09 | 0.38 | 0.38 | 0.10 | 0.16 | 0.16 | 0.09 | 0.15 | 0.15 |
| Sat Flow, veh/h | 1781 | 3554 | 1532 | 1781 | 1870 | 1535 | 1781 | 1870 | 1541 | 1781 | 1870 | 1509 |
| Grp Volume(v), veh/h | 22 | 443 | 101 | 119 | 567 | 87 | 137 | 155 | 32 | 121 | 176 | 7 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1777 | 1532 | 1781 | 1870 | 1535 | 1781 | 1870 | 1541 | 1781 | 1870 | 1509 |
| Q Serve(g_s), s | 0.6 | 5.1 | 2.5 | 3.4 | 14.1 | 2.0 | 3.9 | 4.0 | 0.9 | 3.5 | 4.6 | 0.2 |
| Cycle Q Clear(g_c), s | 0.6 | 5.1 | 2.5 | 3.4 | 14.1 | 2.0 | 3.9 | 4.0 | 0.9 | 3.5 | 4.6 | 0.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 47 | 1130 | 487 | 156 | 710 | 583 | 180 | 308 | 254 | 159 | 286 | 231 |
| V/C Ratio(X) | 0.47 | 0.39 | 0.21 | 0.76 | 0.80 | 0.15 | 0.76 | 0.50 | 0.13 | 0.76 | 0.62 | 0.03 |
| Avail Cap(c_a), veh/h | 204 | 2654 | 1144 | 510 | 1718 | 1411 | 544 | 754 | 621 | 510 | 718 | 579 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 25.1 | 13.9 | 13.0 | 23.3 | 14.5 | 10.7 | 22.9 | 19.9 | 18.6 | 23.3 | 20.7 | 18.9 |
| Incr Delay (d2), s/veh | 7.3 | 0.2 | 0.2 | 7.4 | 2.1 | 0.1 | 6.5 | 1.3 | 0.2 | 7.3 | 2.1 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 1.6 | 0.7 | 1.5 | 4.7 | 0.5 | 1.7 | 1.5 | 0.3 | 1.5 | 1.8 | 0.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 32.4 | 14.1 | 13.2 | 30.7 | 16.6 | 10.8 | 29.4 | 21.2 | 18.9 | 30.6 | 22.9 | 18.9 |
| LnGrp LOS | C | B | B | C | B | B | C | C | B | C | C | B |
| Approach Vol, veh/h | | 566 | | | 773 | | | 324 | | | 304 | |
| Approach Delay, s/veh | | 14.7 | | | 18.1 | | | 24.4 | | | 25.9 | |
| Approach LOS | | B | | | B | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 8.7 | 13.5 | 8.6 | 21.6 | 9.3 | 12.9 | 5.4 | 24.8 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 15.0 | 21.1 | 15.0 | 39.1 | 16.0 | 20.1 | 6.0 | 48.1 |
| Max Q Clear Time (g_c+I1), s | 5.5 | 6.0 | 5.4 | 7.1 | 5.9 | 6.6 | 2.6 | 16.1 |
| Green Ext Time (p_c), s | 0.2 | 0.7 | 0.2 | 3.0 | 0.2 | 0.6 | 0.0 | 3.8 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 19.4 |
| HCM 6th LOS | B |

# 5: Minnewawa Ave & Shepherd Ave
## Queues

12/12/2023



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 22 | 443 | 118 | 119 | 567 | 171 | 137 | 155 | 41 | 121 | 176 | 20 |
| v/c Ratio | 0.13 | 0.40 | 0.21 | 0.42 | 0.70 | 0.23 | 0.46 | 0.42 | 0.10 | 0.43 | 0.50 | 0.05 |
| Control Delay | 44.0 | 23.1 | 3.8 | 40.0 | 24.3 | 4.3 | 39.8 | 35.3 | 0.5 | 40.0 | 37.4 | 0.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 44.0 | 23.1 | 3.8 | 40.0 | 24.3 | 4.3 | 39.8 | 35.3 | 0.5 | 40.0 | 37.4 | 0.2 |
| Queue Length 50th (ft) | 8 | 83 | 0 | 43 | 174 | 2 | 50 | 55 | 0 | 44 | 64 | 0 |
| Queue Length 95th (ft) | 41 | 158 | 27 | 137 | 434 | 41 | 152 | 159 | 0 | 139 | 181 | 0 |
| Internal Link Dist (ft) | | 2560 | | | 1263 | | | 2631 | | | 2555 | |
| Turn Bay Length (ft) | 250 | | 45 | 250 | | 200 | 250 | | | 255 | | 25 |
| Base Capacity (vph) | 178 | 2170 | 986 | 447 | 1319 | 1125 | 477 | 662 | 638 | 447 | 631 | 605 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.12 | 0.20 | 0.12 | 0.27 | 0.43 | 0.15 | 0.29 | 0.23 | 0.06 | 0.27 | 0.28 | 0.03 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.2 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 22 | 547 | 14 | 5 | 741 | 16 | 0 | 0 | 14 | 0 | 0 | 72 |
| Future Vol, veh/h | 22 | 547 | 14 | 5 | 741 | 16 | 0 | 0 | 14 | 0 | 0 | 72 |
| Conflicting Peds, #/hr | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 265 | - | - | 265 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 23 | 576 | 15 | 5 | 780 | 17 | 0 | 0 | 15 | 0 | 0 | 76 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 802 | 0 | 0 | 596 | 0 | 0 | - | - | 306 | - | - | 790 |
| Stage 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Critical Hdwy | 4.13 | - | - | 4.13 | - | - | - | - | 6.93 | - | - | 6.23 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Follow-up Hdwy | 2.219 | - | - | 2.219 | - | - | - | - | 3.319 | - | - | 3.319 |
| Pot Cap-1 Maneuver | 819 | - | - | 978 | - | - | 0 | 0 | 691 | 0 | 0 | 389 |
| Stage 1 | - | - | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Stage 2 | - | - | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 815 | - | - | 973 | - | - | - | - | 684 | - | - | 385 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s | 0.4 | 0.1 | 10.4 | 16.6 |
| HCM LOS | | | B | C |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 684 | 815 | - | - | 973 | - | - | 385 |
| HCM Lane V/C Ratio | 0.022 | 0.028 | - | - | 0.005 | - | - | 0.197 |
| HCM Control Delay (s) | 10.4 | 9.5 | - | - | 8.7 | - | - | 16.6 |
| HCM Lane LOS | B | A | - | - | A | - | - | C |
| HCM 95th %tile Q(veh) | 0.1 | 0.1 | - | - | 0 | - | - | 0.7 |

# 7: Clovis Ave & Shepherd Ave
## HCM 6th Signalized Intersection Summary

12/12/2023

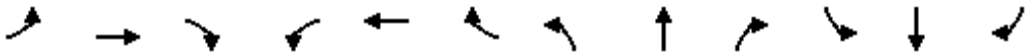
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 50 | 367 | 148 | 100 | 580 | 6 | 163 | 38 | 41 | 21 | 38 | 27 |
| Future Volume (veh/h) | 50 | 367 | 148 | 100 | 580 | 6 | 163 | 38 | 41 | 21 | 38 | 27 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 56 | 412 | 144 | 112 | 652 | 6 | 183 | 43 | 39 | 24 | 43 | 5 |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 191 | 963 | 420 | 285 | 1059 | 462 | 244 | 832 | 363 | 99 | 446 | 193 |
| Arrive On Green | 0.06 | 0.27 | 0.27 | 0.08 | 0.30 | 0.30 | 0.14 | 0.23 | 0.23 | 0.03 | 0.13 | 0.13 |
| Sat Flow, veh/h | 3456 | 3554 | 1551 | 3456 | 3554 | 1552 | 1781 | 3554 | 1549 | 3456 | 3554 | 1534 |
| Grp Volume(v), veh/h | 56 | 412 | 144 | 112 | 652 | 6 | 183 | 43 | 39 | 24 | 43 | 5 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1551 | 1728 | 1777 | 1552 | 1781 | 1777 | 1549 | 1728 | 1777 | 1534 |
| Q Serve(g_s), s | 0.7 | 4.4 | 3.5 | 1.4 | 7.3 | 0.1 | 4.6 | 0.4 | 0.9 | 0.3 | 0.5 | 0.1 |
| Cycle Q Clear(g_c), s | 0.7 | 4.4 | 3.5 | 1.4 | 7.3 | 0.1 | 4.6 | 0.4 | 0.9 | 0.3 | 0.5 | 0.1 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 191 | 963 | 420 | 285 | 1059 | 462 | 244 | 832 | 363 | 99 | 446 | 193 |
| V/C Ratio(X) | 0.29 | 0.43 | 0.34 | 0.39 | 0.62 | 0.01 | 0.75 | 0.05 | 0.11 | 0.24 | 0.10 | 0.03 |
| Avail Cap(c_a), veh/h | 596 | 2843 | 1241 | 820 | 3073 | 1342 | 1075 | 3226 | 1406 | 596 | 1693 | 731 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 21.0 | 13.9 | 13.6 | 20.2 | 14.0 | 11.5 | 19.2 | 13.8 | 13.9 | 22.0 | 17.9 | 17.8 |
| Incr Delay (d2), s/veh | 0.8 | 0.3 | 0.5 | 0.9 | 0.6 | 0.0 | 4.6 | 0.0 | 0.1 | 1.2 | 0.1 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 1.3 | 0.9 | 0.5 | 2.2 | 0.0 | 1.9 | 0.1 | 0.3 | 0.1 | 0.2 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 21.9 | 14.2 | 14.1 | 21.1 | 14.6 | 11.5 | 23.8 | 13.8 | 14.1 | 23.3 | 18.0 | 17.8 |
| LnGrp LOS | C | B | B | C | B | B | C | B | B | C | B | B |
| Approach Vol, veh/h | | 612 | | | 770 | | | 265 | | | 72 | |
| Approach Delay, s/veh | | 14.9 | | | 15.5 | | | 20.7 | | | 19.8 | |
| Approach LOS | | B | | | B | | | C | | | B | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 5.3 | 15.8 | 7.8 | 17.5 | 10.4 | 10.7 | 6.6 | 18.7 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 8.0 | 42.1 | 11.0 | 37.1 | 28.0 | 22.1 | 8.0 | 40.1 |
| Max Q Clear Time (g_c+I1), s | 2.3 | 2.9 | 3.4 | 6.4 | 6.6 | 2.5 | 2.7 | 9.3 |
| Green Ext Time (p_c), s | 0.0 | 0.3 | 0.2 | 3.0 | 0.4 | 0.1 | 0.0 | 4.2 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 16.3 |
| HCM 6th LOS | B |

# 7: Clovis Ave & Shepherd Ave
## Queues

12/12/2023



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 56 | 412 | 166 | 112 | 652 | 7 | 183 | 43 | 46 | 24 | 43 | 30 |
| v/c Ratio | 0.14 | 0.43 | 0.32 | 0.24 | 0.57 | 0.01 | 0.49 | 0.04 | 0.08 | 0.07 | 0.11 | 0.10 |
| Control Delay | 28.9 | 20.5 | 8.3 | 28.1 | 19.9 | 0.0 | 27.8 | 19.2 | 1.4 | 29.8 | 29.1 | 0.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 28.9 | 20.5 | 8.3 | 28.1 | 19.9 | 0.0 | 27.8 | 19.2 | 1.4 | 29.8 | 29.1 | 0.7 |
| Queue Length 50th (ft) | 9 | 64 | 10 | 19 | 107 | 0 | 60 | 5 | 0 | 4 | 7 | 0 |
| Queue Length 95th (ft) | 29 | 118 | 53 | 47 | 182 | 0 | 132 | 20 | 6 | 16 | 24 | 0 |
| Internal Link Dist (ft) | | 1234 | | | 1233 | | | 1070 | | | 873 | |
| Turn Bay Length (ft) | 250 | | 50 | 250 | | 255 | 235 | | 65 | 255 | | 100 |
| Base Capacity (vph) | 497 | 2380 | 1081 | 684 | 2520 | 1137 | 898 | 2610 | 1164 | 497 | 1418 | 695 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.11 | 0.17 | 0.15 | 0.16 | 0.26 | 0.01 | 0.20 | 0.02 | 0.04 | 0.05 | 0.03 | 0.04 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 0 |
| Future Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | 0 | 100 | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 0 | 0 | 0 | 0 |

| Major/Minor | Minor2 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | - | 1 | 1 | 0 | - | 0 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 0 | 1083 | 1620 | - | - | - |
| Stage 1 | 0 | - | - | - | - | - |
| Stage 2 | 0 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | - | 1083 | 1620 | - | - | - |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---|---|---|---|---|---|
| Capacity (veh/h) | 1620 | - | - | - | - |
| HCM Lane V/C Ratio | - | - | - | - | - |
| HCM Control Delay (s) | 0 | - | 0 | - | - |
| HCM Lane LOS | A | - | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | - | - |

# 1: Willow Ave & International Ave
## HCM 6th Signalized Intersection Summary

12/12/2023

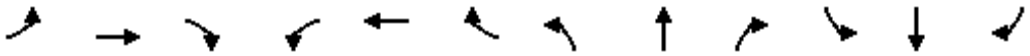
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 18 | 67 | 163 | 19 | 88 | 50 | 185 | 465 | 20 | 63 | 421 | 37 |
| Future Volume (veh/h) | 18 | 67 | 163 | 19 | 88 | 50 | 185 | 465 | 20 | 63 | 421 | 37 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.96 | 1.00 | | 0.96 | 1.00 | | 0.95 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 20 | 76 | 110 | 22 | 100 | 38 | 210 | 528 | 17 | 72 | 478 | 36 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 45 | 284 | 230 | 49 | 288 | 233 | 409 | 979 | 415 | 125 | 1161 | 348 |
| Arrive On Green | 0.03 | 0.15 | 0.15 | 0.03 | 0.15 | 0.15 | 0.12 | 0.28 | 0.28 | 0.07 | 0.23 | 0.23 |
| Sat Flow, veh/h | 1781 | 1870 | 1516 | 1781 | 1870 | 1517 | 3456 | 3554 | 1508 | 1781 | 5106 | 1533 |
| Grp Volume(v), veh/h | 20 | 76 | 110 | 22 | 100 | 38 | 210 | 528 | 17 | 72 | 478 | 36 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1516 | 1781 | 1870 | 1517 | 1728 | 1777 | 1508 | 1781 | 1702 | 1533 |
| Q Serve(g_s), s | 0.4 | 1.3 | 2.5 | 0.5 | 1.8 | 0.8 | 2.1 | 4.7 | 0.3 | 1.5 | 3.0 | 0.7 |
| Cycle Q Clear(g_c), s | 0.4 | 1.3 | 2.5 | 0.5 | 1.8 | 0.8 | 2.1 | 4.7 | 0.3 | 1.5 | 3.0 | 0.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 45 | 284 | 230 | 49 | 288 | 233 | 409 | 979 | 415 | 125 | 1161 | 348 |
| V/C Ratio(X) | 0.45 | 0.27 | 0.48 | 0.45 | 0.35 | 0.16 | 0.51 | 0.54 | 0.04 | 0.57 | 0.41 | 0.10 |
| Avail Cap(c_a), veh/h | 381 | 1104 | 895 | 381 | 1104 | 895 | 1292 | 2856 | 1212 | 571 | 3831 | 1150 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 18.0 | 14.0 | 14.5 | 17.9 | 14.2 | 13.8 | 15.5 | 11.5 | 9.9 | 16.9 | 12.3 | 11.4 |
| Incr Delay (d2), s/veh | 6.9 | 0.5 | 1.5 | 6.4 | 0.7 | 0.3 | 1.0 | 0.5 | 0.0 | 4.1 | 0.2 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.2 | 0.5 | 0.8 | 0.2 | 0.7 | 0.3 | 0.7 | 1.2 | 0.1 | 0.6 | 0.8 | 0.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 24.9 | 14.6 | 16.1 | 24.4 | 14.9 | 14.1 | 16.5 | 12.0 | 10.0 | 21.0 | 12.6 | 11.6 |
| LnGrp LOS | C | B | B | C | B | B | B | B | A | C | B | B |
| Approach Vol, veh/h | | 206 | | | 160 | | | 755 | | | 586 | |
| Approach Delay, s/veh | | 16.4 | | | 16.0 | | | 13.2 | | | 13.5 | |
| Approach LOS | | B | | | B | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 6.6 | 15.2 | 5.0 | 10.6 | 8.4 | 13.4 | 4.9 | 10.7 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 12.0 | 30.1 | 8.0 | 22.1 | 14.0 | 28.1 | 8.0 | 22.1 |
| Max Q Clear Time (g_c+I1), s | 3.5 | 6.7 | 2.5 | 4.5 | 4.1 | 5.0 | 2.4 | 3.8 |
| Green Ext Time (p_c), s | 0.1 | 3.2 | 0.0 | 0.7 | 0.4 | 2.9 | 0.0 | 0.5 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 14.0 |
| HCM 6th LOS | B |

# 1: Willow Ave & International Ave
## Queues

12/12/2023



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 20 | 76 | 185 | 22 | 100 | 57 | 210 | 528 | 23 | 72 | 478 | 42 |
| v/c Ratio | 0.08 | 0.22 | 0.43 | 0.09 | 0.29 | 0.15 | 0.32 | 0.37 | 0.03 | 0.24 | 0.36 | 0.09 |
| Control Delay | 23.6 | 20.9 | 7.9 | 23.5 | 21.6 | 1.4 | 19.9 | 13.8 | 0.1 | 22.2 | 15.3 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 23.6 | 20.9 | 7.9 | 23.5 | 21.6 | 1.4 | 19.9 | 13.8 | 0.1 | 22.2 | 15.3 | 0.4 |
| Queue Length 50th (ft) | 4 | 15 | 0 | 4 | 20 | 0 | 21 | 52 | 0 | 14 | 31 | 0 |
| Queue Length 95th (ft) | 26 | 62 | 46 | 27 | 76 | 3 | 68 | 137 | 0 | 60 | 82 | 0 |
| Internal Link Dist (ft) | | 2470 | | | 1342 | | | 2623 | | | 1390 | |
| Turn Bay Length (ft) | 250 | | | | | 25 | 250 | | | 250 | | 205 |
| Base Capacity (vph) | 331 | 964 | 882 | 331 | 964 | 850 | 1126 | 2496 | 1097 | 497 | 3348 | 1052 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.06 | 0.08 | 0.21 | 0.07 | 0.10 | 0.07 | 0.19 | 0.21 | 0.02 | 0.14 | 0.14 | 0.04 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 3 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 6 | 0 | 93 | 0 | 0 | 0 | 145 | 280 | 1 | 0 | 275 | 3 |
| Future Vol, veh/h | 6 | 0 | 93 | 0 | 0 | 0 | 145 | 280 | 1 | 0 | 275 | 3 |
| Conflicting Peds, #/hr | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 7 | 0 | 103 | 0 | 0 | 0 | 161 | 311 | 1 | 0 | 306 | 3 |

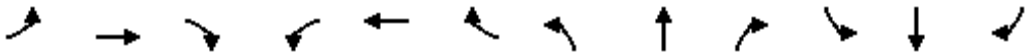
| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 952 | 952 | 318 | 1003 | 953 | 322 | 314 | 0 | 0 | 317 | 0 | 0 |
| Stage 1 | 313 | 313 | - | 639 | 639 | - | - | - | - | - | - | - |
| Stage 2 | 639 | 639 | - | 364 | 314 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 239 | 259 | 723 | 221 | 259 | 719 | 1246 | - | - | 1243 | - | - |
| Stage 1 | 698 | 657 | - | 464 | 470 | - | - | - | - | - | - | - |
| Stage 2 | 464 | 470 | - | 655 | 656 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 208 | 216 | 716 | 165 | 216 | 712 | 1240 | - | - | 1237 | - | - |
| Mov Cap-2 Maneuver | 208 | 216 | - | 165 | 216 | - | - | - | - | - | - | - |
| Stage 1 | 586 | 654 | - | 389 | 394 | - | - | - | - | - | - | - |
| Stage 2 | 389 | 394 | - | 558 | 653 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s | 12 | 0 | 2.8 | 0 |
| HCM LOS | B | A | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 1240 | - | - | 624 | - | 1237 | - | - |
| HCM Lane V/C Ratio | 0.13 | - | - | 0.176 | - | - | - | - |
| HCM Control Delay (s) | 8.3 | 0 | - | 12 | 0 | 0 | - | - |
| HCM Lane LOS | A | A | - | B | A | A | - | - |
| HCM 95th %tile Q(veh) | 0.4 | - | - | 0.6 | - | 0 | - | - |

# 3: Willow Ave & Behymer Ave
## HCM 6th Signalized Intersection Summary

12/12/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 18 | 97 | 123 | 26 | 143 | 81 | 147 | 660 | 34 | 122 | 630 | 22 |
| Future Volume (veh/h) | 18 | 97 | 123 | 26 | 143 | 81 | 147 | 660 | 34 | 122 | 630 | 22 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.97 | 1.00 | | 0.97 | 1.00 | | 0.96 | 1.00 | | 0.96 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 21 | 111 | 112 | 30 | 164 | 70 | 169 | 759 | 33 | 140 | 724 | 8 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 46 | 356 | 292 | 62 | 246 | 105 | 219 | 1394 | 414 | 181 | 1287 | 382 |
| Arrive On Green | 0.03 | 0.19 | 0.19 | 0.03 | 0.20 | 0.20 | 0.12 | 0.27 | 0.27 | 0.10 | 0.25 | 0.25 |
| Sat Flow, veh/h | 1781 | 1870 | 1536 | 1781 | 1231 | 525 | 1781 | 5106 | 1518 | 1781 | 5106 | 1515 |
| Grp Volume(v), veh/h | 21 | 111 | 112 | 30 | 0 | 234 | 169 | 759 | 33 | 140 | 724 | 8 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1536 | 1781 | 0 | 1756 | 1781 | 1702 | 1518 | 1781 | 1702 | 1515 |
| Q Serve(g_s), s | 0.5 | 2.3 | 2.8 | 0.7 | 0.0 | 5.5 | 4.1 | 5.6 | 0.7 | 3.4 | 5.5 | 0.2 |
| Cycle Q Clear(g_c), s | 0.5 | 2.3 | 2.8 | 0.7 | 0.0 | 5.5 | 4.1 | 5.6 | 0.7 | 3.4 | 5.5 | 0.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.30 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 46 | 356 | 292 | 62 | 0 | 350 | 219 | 1394 | 414 | 181 | 1287 | 382 |
| V/C Ratio(X) | 0.46 | 0.31 | 0.38 | 0.48 | 0.00 | 0.67 | 0.77 | 0.54 | 0.08 | 0.77 | 0.56 | 0.02 |
| Avail Cap(c_a), veh/h | 236 | 756 | 621 | 236 | 0 | 710 | 400 | 2214 | 658 | 360 | 2099 | 623 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 21.4 | 15.5 | 15.7 | 21.1 | 0.0 | 16.5 | 18.9 | 13.8 | 12.0 | 19.5 | 14.5 | 12.5 |
| Incr Delay (d2), s/veh | 7.0 | 0.5 | 0.8 | 5.7 | 0.0 | 2.2 | 5.7 | 0.3 | 0.1 | 6.8 | 0.4 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 0.8 | 0.8 | 0.4 | 0.0 | 1.9 | 1.7 | 1.6 | 0.2 | 1.5 | 1.6 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 28.4 | 16.0 | 16.6 | 26.8 | 0.0 | 18.6 | 24.7 | 14.1 | 12.1 | 26.3 | 14.9 | 12.5 |
| LnGrp LOS | C | B | B | C | A | B | C | B | B | C | B | B |
| Approach Vol, veh/h | | 244 | | | 264 | | | 961 | | | 872 | |
| Approach Delay, s/veh | | 17.3 | | | 19.6 | | | 15.9 | | | 16.7 | |
| Approach LOS | | B | | | B | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 8.5 | 17.1 | 5.5 | 13.4 | 9.5 | 16.1 | 5.1 | 13.8 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 9.0 | 19.3 | 5.9 | 18.0 | 10.0 | 18.3 | 5.9 | 18.0 |
| Max Q Clear Time (g_c+I1), s | 5.4 | 7.6 | 2.7 | 4.8 | 6.1 | 7.5 | 2.5 | 7.5 |
| Green Ext Time (p_c), s | 0.1 | 3.7 | 0.0 | 0.7 | 0.1 | 3.3 | 0.0 | 0.8 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 16.8 |
| HCM 6th LOS | B |

# 3: Willow Ave & Behymer Ave
## Queues





| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 21 | 111 | 141 | 30 | 257 | 169 | 759 | 39 | 140 | 724 | 25 |
| v/c Ratio | 0.09 | 0.26 | 0.30 | 0.13 | 0.53 | 0.49 | 0.49 | 0.07 | 0.45 | 0.49 | 0.05 |
| Control Delay | 27.6 | 21.2 | 5.7 | 27.8 | 19.8 | 29.6 | 17.5 | 0.2 | 29.7 | 18.2 | 0.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 27.6 | 21.2 | 5.7 | 27.8 | 19.8 | 29.6 | 17.5 | 0.2 | 29.7 | 18.2 | 0.1 |
| Queue Length 50th (ft) | 5 | 25 | 0 | 8 | 54 | 42 | 64 | 0 | 36 | 63 | 0 |
| Queue Length 95th (ft) | 27 | 73 | 31 | 35 | 141 | #141 | 131 | 0 | #120 | 128 | 0 |
| Internal Link Dist (ft) | | 2660 | | | 5395 | | 1188 | | | 2623 | |
| Turn Bay Length (ft) | 235 | | | 88 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 232 | 748 | 711 | 232 | 735 | 394 | 2188 | 740 | 355 | 2075 | 709 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.09 | 0.15 | 0.20 | 0.13 | 0.35 | 0.43 | 0.35 | 0.05 | 0.39 | 0.35 | 0.04 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 54.7 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 3 | 184 | 50 | 3 | 173 | 191 | 67 | 214 | 14 | 164 | 193 | 6 |
| Future Vol, veh/h | 3 | 184 | 50 | 3 | 173 | 191 | 67 | 214 | 14 | 164 | 193 | 6 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 211 | 57 | 3 | 199 | 220 | 77 | 246 | 16 | 189 | 222 | 7 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 29.7 | 63.6 | 42.5 | 71.8 |
| HCM LOS | D | F | E | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 23% | 1% | 1% | 45% |
| Vol Thru, % | 73% | 78% | 47% | 53% |
| Vol Right, % | 5% | 21% | 52% | 2% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 295 | 237 | 367 | 363 |
| LT Vol | 67 | 3 | 3 | 164 |
| Through Vol | 214 | 184 | 173 | 193 |
| RT Vol | 14 | 50 | 191 | 6 |
| Lane Flow Rate | 339 | 272 | 422 | 417 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.828 | 0.683 | 0.964 | 0.992 |
| Departure Headway (Hd) | 8.891 | 9.132 | 8.223 | 8.558 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 410 | 398 | 443 | 426 |
| Service Time | 6.891 | 7.132 | 6.26 | 6.599 |
| HCM Lane V/C Ratio | 0.827 | 0.683 | 0.953 | 0.979 |
| HCM Control Delay | 42.5 | 29.7 | 63.6 | 71.8 |
| HCM Lane LOS | E | D | F | F |
| HCM 95th-tile Q | 7.7 | 4.9 | 11.6 | 12.3 |

# 5: Minnewawa Ave & Shepherd Ave
## HCM 6th Signalized Intersection Summary

12/12/2023

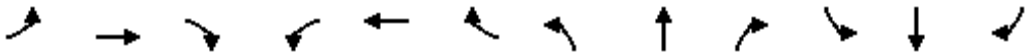
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 19 | 484 | 86 | 64 | 447 | 122 | 119 | 161 | 50 | 88 | 166 | 16 |
| Future Volume (veh/h) | 19 | 484 | 86 | 64 | 447 | 122 | 119 | 161 | 50 | 88 | 166 | 16 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.96 | 1.00 | | 0.96 | 1.00 | | 0.97 | 1.00 | | 0.95 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 22 | 550 | 86 | 73 | 508 | 77 | 135 | 183 | 51 | 100 | 189 | 10 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 47 | 1108 | 475 | 114 | 654 | 534 | 178 | 353 | 290 | 134 | 307 | 246 |
| Arrive On Green | 0.03 | 0.31 | 0.31 | 0.06 | 0.35 | 0.35 | 0.10 | 0.19 | 0.19 | 0.08 | 0.16 | 0.16 |
| Sat Flow, veh/h | 1781 | 3554 | 1524 | 1781 | 1870 | 1527 | 1781 | 1870 | 1537 | 1781 | 1870 | 1498 |
| Grp Volume(v), veh/h | 22 | 550 | 86 | 73 | 508 | 77 | 135 | 183 | 51 | 100 | 189 | 10 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1777 | 1524 | 1781 | 1870 | 1527 | 1781 | 1870 | 1537 | 1781 | 1870 | 1498 |
| Q Serve(g_s), s | 0.6 | 6.2 | 2.0 | 2.0 | 12.0 | 1.7 | 3.6 | 4.4 | 1.4 | 2.7 | 4.6 | 0.3 |
| Cycle Q Clear(g_c), s | 0.6 | 6.2 | 2.0 | 2.0 | 12.0 | 1.7 | 3.6 | 4.4 | 1.4 | 2.7 | 4.6 | 0.3 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 47 | 1108 | 475 | 114 | 654 | 534 | 178 | 353 | 290 | 134 | 307 | 246 |
| V/C Ratio(X) | 0.47 | 0.50 | 0.18 | 0.64 | 0.78 | 0.14 | 0.76 | 0.52 | 0.18 | 0.74 | 0.62 | 0.04 |
| Avail Cap(c_a), veh/h | 216 | 2953 | 1267 | 360 | 1706 | 1393 | 612 | 987 | 811 | 468 | 836 | 669 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 23.7 | 13.9 | 12.4 | 22.6 | 14.4 | 11.0 | 21.7 | 18.0 | 16.8 | 22.4 | 19.2 | 17.4 |
| Incr Delay (d2), s/veh | 7.1 | 0.3 | 0.2 | 5.9 | 2.0 | 0.1 | 6.4 | 1.2 | 0.3 | 7.8 | 2.0 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 1.9 | 0.5 | 0.9 | 4.0 | 0.4 | 1.6 | 1.6 | 0.4 | 1.2 | 1.8 | 0.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 30.8 | 14.2 | 12.6 | 28.4 | 16.4 | 11.1 | 28.1 | 19.2 | 17.1 | 30.2 | 21.2 | 17.5 |
| LnGrp LOS | C | B | B | C | B | B | C | B | B | C | C | B |
| Approach Vol, veh/h | | 658 | | | 658 | | | 369 | | | 299 | |
| Approach Delay, s/veh | | 14.5 | | | 17.1 | | | 22.2 | | | 24.1 | |
| Approach LOS | | B | | | B | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 7.7 | 14.2 | 7.2 | 20.3 | 9.0 | 13.0 | 5.3 | 22.2 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 13.0 | 26.1 | 10.0 | 41.1 | 17.0 | 22.1 | 6.0 | 45.1 |
| Max Q Clear Time (g_c+I1), s | 4.7 | 6.4 | 4.0 | 8.2 | 5.6 | 6.6 | 2.6 | 14.0 |
| Green Ext Time (p_c), s | 0.1 | 0.9 | 0.1 | 3.8 | 0.2 | 0.7 | 0.0 | 3.2 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 18.3 |
| HCM 6th LOS | B |

# 5: Minnewawa Ave & Shepherd Ave
## Queues





| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 22 | 550 | 98 | 73 | 508 | 139 | 135 | 183 | 57 | 100 | 189 | 18 |
| v/c Ratio | 0.13 | 0.47 | 0.17 | 0.32 | 0.65 | 0.19 | 0.45 | 0.45 | 0.14 | 0.38 | 0.51 | 0.05 |
| Control Delay | 42.8 | 22.6 | 5.4 | 40.9 | 23.7 | 4.4 | 38.4 | 32.5 | 2.1 | 39.7 | 36.0 | 0.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 42.8 | 22.6 | 5.4 | 40.9 | 23.7 | 4.4 | 38.4 | 32.5 | 2.1 | 39.7 | 36.0 | 0.2 |
| Queue Length 50th (ft) | 8 | 103 | 0 | 28 | 151 | 0 | 51 | 66 | 0 | 38 | 71 | 0 |
| Queue Length 95th (ft) | 40 | 186 | 31 | 93 | 379 | 35 | 143 | 169 | 7 | 116 | 183 | 0 |
| Internal Link Dist (ft) | | 2560 | | | 1263 | | | 2631 | | | 2555 | |
| Turn Bay Length (ft) | 250 | | 45 | 250 | | 200 | 250 | | | 255 | | 25 |
| Base Capacity (vph) | 182 | 2252 | 1000 | 303 | 1264 | 1073 | 516 | 835 | 744 | 395 | 707 | 632 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.12 | 0.24 | 0.10 | 0.24 | 0.40 | 0.13 | 0.26 | 0.22 | 0.08 | 0.25 | 0.27 | 0.03 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.8 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 38 | 564 | 17 | 10 | 598 | 28 | 0 | 0 | 11 | 0 | 0 | 32 |
| Future Vol, veh/h | 38 | 564 | 17 | 10 | 598 | 28 | 0 | 0 | 11 | 0 | 0 | 32 |
| Conflicting Peds, #/hr | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 265 | - | - | 265 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 42 | 627 | 19 | 11 | 664 | 31 | 0 | 0 | 12 | 0 | 0 | 36 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 700 | 0 | 0 | 651 | 0 | 0 | - | - | 333 | - | - | 674 |
| Stage 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Critical Hdwy | 4.13 | - | - | 4.13 | - | - | - | - | 6.93 | - | - | 6.23 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Follow-up Hdwy | 2.219 | - | - | 2.219 | - | - | - | - | 3.319 | - | - | 3.319 |
| Pot Cap-1 Maneuver | 895 | - | - | 933 | - | - | 0 | 0 | 664 | 0 | 0 | 454 |
| Stage 1 | - | - | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Stage 2 | - | - | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 891 | - | - | 929 | - | - | - | - | 658 | - | - | 450 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s | 0.6 | 0.1 | 10.6 | 13.7 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 658 | 891 | - | - | 929 | - | - | 450 |
| HCM Lane V/C Ratio | 0.019 | 0.047 | - | - | 0.012 | - | - | 0.079 |
| HCM Control Delay (s) | 10.6 | 9.2 | - | - | 8.9 | - | - | 13.7 |
| HCM Lane LOS | B | A | - | - | A | - | - | B |
| HCM 95th %tile Q(veh) | 0.1 | 0.1 | - | - | 0 | - | - | 0.3 |

# 7: Clovis Ave & Shepherd Ave
## HCM 6th Signalized Intersection Summary

12/12/2023

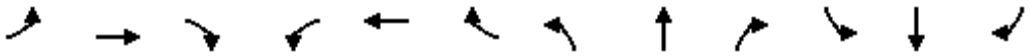
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 46 | 423 | 125 | 67 | 423 | 11 | 181 | 51 | 57 | 11 | 22 | 21 |
| Future Volume (veh/h) | 46 | 423 | 125 | 67 | 423 | 11 | 181 | 51 | 57 | 11 | 22 | 21 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 53 | 486 | 124 | 77 | 486 | 10 | 208 | 59 | 29 | 13 | 25 | 6 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 186 | 882 | 385 | 238 | 935 | 408 | 278 | 955 | 417 | 58 | 460 | 199 |
| Arrive On Green | 0.05 | 0.25 | 0.25 | 0.07 | 0.26 | 0.26 | 0.16 | 0.27 | 0.27 | 0.02 | 0.13 | 0.13 |
| Sat Flow, veh/h | 3456 | 3554 | 1550 | 3456 | 3554 | 1551 | 1781 | 3554 | 1551 | 3456 | 3554 | 1535 |
| Grp Volume(v), veh/h | 53 | 486 | 124 | 77 | 486 | 10 | 208 | 59 | 29 | 13 | 25 | 6 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1550 | 1728 | 1777 | 1551 | 1781 | 1777 | 1551 | 1728 | 1777 | 1535 |
| Q Serve(g_s), s | 0.7 | 5.3 | 2.9 | 1.0 | 5.2 | 0.2 | 5.0 | 0.6 | 0.6 | 0.2 | 0.3 | 0.2 |
| Cycle Q Clear(g_c), s | 0.7 | 5.3 | 2.9 | 1.0 | 5.2 | 0.2 | 5.0 | 0.6 | 0.6 | 0.2 | 0.3 | 0.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 186 | 882 | 385 | 238 | 935 | 408 | 278 | 955 | 417 | 58 | 460 | 199 |
| V/C Ratio(X) | 0.28 | 0.55 | 0.32 | 0.32 | 0.52 | 0.02 | 0.75 | 0.06 | 0.07 | 0.23 | 0.05 | 0.03 |
| Avail Cap(c_a), veh/h | 695 | 2707 | 1180 | 695 | 2707 | 1181 | 1313 | 3818 | 1666 | 540 | 1754 | 758 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 20.3 | 14.7 | 13.8 | 19.9 | 14.1 | 12.2 | 18.1 | 12.2 | 12.2 | 21.7 | 17.1 | 17.0 |
| Incr Delay (d2), s/veh | 0.8 | 0.5 | 0.5 | 0.8 | 0.4 | 0.0 | 4.0 | 0.0 | 0.1 | 2.0 | 0.0 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.2 | 1.6 | 0.8 | 0.3 | 1.6 | 0.1 | 1.9 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 21.2 | 15.2 | 14.2 | 20.6 | 14.5 | 12.3 | 22.1 | 12.2 | 12.3 | 23.7 | 17.1 | 17.1 |
| LnGrp LOS | C | B | B | C | B | B | C | B | B | C | B | B |
| Approach Vol, veh/h | | 663 | | | 573 | | | 296 | | | 44 | |
| Approach Delay, s/veh | | 15.5 | | | 15.3 | | | 19.2 | | | 19.1 | |
| Approach LOS | | B | | | B | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 4.7 | 16.9 | 7.1 | 16.0 | 11.0 | 10.7 | 6.4 | 16.7 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 7.0 | 48.1 | 9.0 | 34.1 | 33.0 | 22.1 | 9.0 | 34.1 |
| Max Q Clear Time (g_c+I1), s | 2.2 | 2.6 | 3.0 | 7.3 | 7.0 | 2.3 | 2.7 | 7.2 |
| Green Ext Time (p_c), s | 0.0 | 0.4 | 0.1 | 3.3 | 0.5 | 0.1 | 0.0 | 2.9 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 16.2 |
| HCM 6th LOS | B |

# 7: Clovis Ave & Shepherd Ave
## Queues

12/12/2023



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 53 | 486 | 144 | 77 | 486 | 13 | 208 | 59 | 66 | 13 | 25 | 24 |
| v/c Ratio | 0.13 | 0.54 | 0.29 | 0.18 | 0.46 | 0.02 | 0.52 | 0.04 | 0.10 | 0.04 | 0.06 | 0.08 |
| Control Delay | 27.3 | 21.8 | 7.1 | 26.9 | 19.2 | 0.1 | 26.3 | 15.2 | 3.3 | 28.4 | 28.0 | 0.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 27.3 | 21.8 | 7.1 | 26.9 | 19.2 | 0.1 | 26.3 | 15.2 | 3.3 | 28.4 | 28.0 | 0.6 |
| Queue Length 50th (ft) | 8 | 76 | 3 | 12 | 76 | 0 | 64 | 6 | 0 | 2 | 4 | 0 |
| Queue Length 95th (ft) | 26 | 133 | 40 | 34 | 130 | 0 | 134 | 23 | 16 | 10 | 16 | 0 |
| Internal Link Dist (ft) | | 1234 | | | 1233 | | | 1070 | | | 873 | |
| Turn Bay Length (ft) | 250 | | 50 | 250 | | 255 | 235 | | 65 | 255 | | 100 |
| Base Capacity (vph) | 580 | 2266 | 1035 | 580 | 2266 | 1035 | 1096 | 2953 | 1305 | 451 | 1468 | 715 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.09 | 0.21 | 0.14 | 0.13 | 0.21 | 0.01 | 0.19 | 0.02 | 0.05 | 0.03 | 0.02 | 0.03 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 0 |
| Future Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | 0 | 100 | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 0 | 0 | 0 | 0 |

| Major/Minor | Minor2 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | - | 1 | 1 | 0 | - | 0 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 0 | 1083 | 1620 | - | - | - |
| Stage 1 | 0 | - | - | - | - | - |
| Stage 2 | 0 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | - | 1083 | 1620 | - | - | - |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

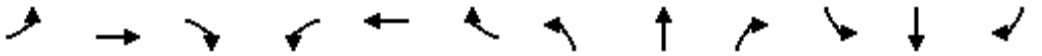
| Approach | EB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---|---|---|---|---|---|
| Capacity (veh/h) | 1620 | - | - | - | - |
| HCM Lane V/C Ratio | - | - | - | - | - |
| HCM Control Delay (s) | 0 | - | 0 | - | - |
| HCM Lane LOS | A | - | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | - | - |

1: Willow Ave & International Ave — Existing Plu

HCM 6th Signalized Intersection Summary

12/12/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 46 | 68 | 219 | 11 | 209 | 47 | 403 | 410 | 28 | 72 | 508 | 97 |
| Future Volume (veh/h) | 46 | 68 | 219 | 11 | 209 | 47 | 403 | 410 | 28 | 72 | 508 | 97 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.97 | 1.00 | | 0.97 | 1.00 | | 0.96 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 55 | 82 | 182 | 13 | 252 | 43 | 486 | 494 | 33 | 87 | 612 | 100 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 93 | 438 | 360 | 29 | 370 | 304 | 675 | 1224 | 525 | 122 | 1111 | 334 |
| Arrive On Green | 0.05 | 0.23 | 0.23 | 0.02 | 0.20 | 0.20 | 0.20 | 0.34 | 0.34 | 0.07 | 0.22 | 0.22 |
| Sat Flow, veh/h | 1781 | 1870 | 1540 | 1781 | 1870 | 1535 | 3456 | 3554 | 1523 | 1781 | 5106 | 1538 |
| Grp Volume(v), veh/h | 55 | 82 | 182 | 13 | 252 | 43 | 486 | 494 | 33 | 87 | 612 | 100 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1540 | 1781 | 1870 | 1535 | 1728 | 1777 | 1523 | 1781 | 1702 | 1538 |
| Q Serve(g_s), s | 1.6 | 1.9 | 5.4 | 0.4 | 6.6 | 1.2 | 7.0 | 5.6 | 0.8 | 2.5 | 5.6 | 2.9 |
| Cycle Q Clear(g_c), s | 1.6 | 1.9 | 5.4 | 0.4 | 6.6 | 1.2 | 7.0 | 5.6 | 0.8 | 2.5 | 5.6 | 2.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 93 | 438 | 360 | 29 | 370 | 304 | 675 | 1224 | 525 | 122 | 1111 | 334 |
| V/C Ratio(X) | 0.59 | 0.19 | 0.51 | 0.44 | 0.68 | 0.14 | 0.72 | 0.40 | 0.06 | 0.72 | 0.55 | 0.30 |
| Avail Cap(c_a), veh/h | 270 | 853 | 702 | 202 | 782 | 642 | 1373 | 2091 | 897 | 371 | 2039 | 614 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 24.5 | 16.2 | 17.6 | 25.8 | 19.6 | 17.5 | 19.9 | 13.2 | 11.6 | 24.1 | 18.4 | 17.3 |
| Incr Delay (d2), s/veh | 5.8 | 0.2 | 1.1 | 10.2 | 2.2 | 0.2 | 1.5 | 0.2 | 0.0 | 7.6 | 0.4 | 0.5 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.8 | 0.7 | 1.8 | 0.2 | 2.8 | 0.4 | 2.4 | 1.7 | 0.2 | 1.2 | 1.8 | 1.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 30.3 | 16.4 | 18.7 | 35.9 | 21.8 | 17.7 | 21.4 | 13.4 | 11.7 | 31.7 | 18.8 | 17.8 |
| LnGrp LOS | C | B | B | D | C | B | C | B | B | C | B | B |
| Approach Vol, veh/h | | 319 | | | 308 | | | 1013 | | | 799 | |
| Approach Delay, s/veh | | 20.1 | | | 21.9 | | | 17.2 | | | 20.1 | |
| Approach LOS | | C | | | C | | | B | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 7.6 | 23.1 | 4.9 | 17.3 | 14.3 | 16.4 | 6.8 | 15.4 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 11.0 | 31.1 | 6.0 | 24.1 | 21.0 | 21.1 | 8.0 | 22.1 |
| Max Q Clear Time (g_c+I1), s | 4.5 | 7.6 | 2.4 | 7.4 | 9.0 | 7.6 | 3.6 | 8.6 |
| Green Ext Time (p_c), s | 0.1 | 3.0 | 0.0 | 0.9 | 1.4 | 3.4 | 0.0 | 1.3 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 19.1 |
| HCM 6th LOS | B |

1: Willow Ave & International Ave Existing Plu

Queues 12/12/2023

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 55 | 82 | 264 | 13 | 252 | 57 | 486 | 494 | 34 | 87 | 612 | 117 |
| v/c Ratio | 0.28 | 0.15 | 0.42 | 0.08 | 0.60 | 0.12 | 0.62 | 0.38 | 0.05 | 0.37 | 0.53 | 0.25 |
| Control Delay | 37.7 | 20.3 | 5.6 | 37.7 | 32.7 | 0.5 | 29.1 | 19.7 | 0.1 | 36.5 | 26.4 | 3.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 37.7 | 20.3 | 5.6 | 37.7 | 32.7 | 0.5 | 29.1 | 19.7 | 0.1 | 36.5 | 26.4 | 3.1 |
| Queue Length 50th (ft) | 23 | 23 | 0 | 5 | 101 | 0 | 100 | 91 | 0 | 36 | 88 | 0 |
| Queue Length 95th (ft) | 62 | 66 | 42 | 23 | 183 | 0 | 161 | 140 | 0 | 85 | 134 | 10 |
| Internal Link Dist (ft) | | 2470 | | | 1342 | | | 2623 | | | 1390 | |
| Turn Bay Length (ft) | 250 | | | | | 25 | 250 | | | 250 | | 205 |
| Base Capacity (vph) | 235 | 791 | 805 | 176 | 685 | 672 | 1200 | 1833 | 842 | 324 | 1787 | 648 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.23 | 0.10 | 0.33 | 0.07 | 0.37 | 0.08 | 0.41 | 0.27 | 0.04 | 0.27 | 0.34 | 0.18 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 4.2 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 3 | 0 | 90 | 0 | 0 | 0 | 272 | 212 | 0 | 0 | 270 | 5 |
| Future Vol, veh/h | 3 | 0 | 90 | 0 | 0 | 0 | 272 | 212 | 0 | 0 | 270 | 5 |
| Conflicting Peds, #/hr | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 0 | 103 | 0 | 0 | 0 | 313 | 244 | 0 | 0 | 310 | 6 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1193 | 1193 | 323 | 1245 | 1196 | 254 | 321 | 0 | 0 | 249 | 0 | 0 |
| Stage 1 | 318 | 318 | - | 875 | 875 | - | - | - | - | - | - | - |
| Stage 2 | 875 | 875 | - | 370 | 321 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 164 | 187 | 718 | 151 | 186 | 785 | 1239 | - | - | 1317 | - | - |
| Stage 1 | 693 | 654 | - | 344 | 367 | - | - | - | - | - | - | - |
| Stage 2 | 344 | 367 | - | 650 | 652 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 125 | 131 | 711 | 99 | 130 | 778 | 1233 | - | - | 1311 | - | - |
| Mov Cap-2 Maneuver | 125 | 131 | - | 99 | 130 | - | - | - | - | - | - | - |
| Stage 1 | 487 | 651 | - | 242 | 258 | - | - | - | - | - | - | - |
| Stage 2 | 242 | 258 | - | 553 | 649 | - | - | - | - | - | - | - |

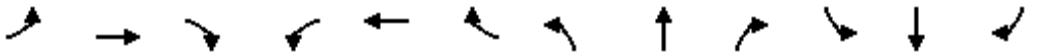
| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s | 12 | 0 | 5 | 0 |
| HCM LOS | B | A | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 1233 | - | - | 618 | - | 1311 | - | - |
| HCM Lane V/C Ratio | 0.254 | - | - | 0.173 | - | - | - | - |
| HCM Control Delay (s) | 8.9 | 0 | - | 12 | 0 | 0 | - | - |
| HCM Lane LOS | A | A | - | B | A | A | - | - |
| HCM 95th %tile Q(veh) | 1 | - | - | 0.6 | - | 0 | - | - |

3: Willow Ave & Behymer Ave — Existing Plu

HCM 6th Signalized Intersection Summary

12/12/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 66 | 137 | 224 | 21 | 147 | 151 | 125 | 904 | 35 | 60 | 626 | 47 |
| Future Volume (veh/h) | 66 | 137 | 224 | 21 | 147 | 151 | 125 | 904 | 35 | 60 | 626 | 47 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.95 | 1.00 | | 0.94 | 1.00 | | 0.91 | 1.00 | | 0.90 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 73 | 152 | 165 | 23 | 163 | 118 | 139 | 1004 | 31 | 67 | 696 | 26 |
| Peak Hour Factor | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 108 | 543 | 436 | 48 | 251 | 182 | 179 | 1551 | 440 | 103 | 1335 | 374 |
| Arrive On Green | 0.06 | 0.29 | 0.29 | 0.03 | 0.26 | 0.26 | 0.10 | 0.30 | 0.30 | 0.06 | 0.26 | 0.26 |
| Sat Flow, veh/h | 1781 | 1870 | 1501 | 1781 | 980 | 710 | 1781 | 5106 | 1449 | 1781 | 5106 | 1432 |
| Grp Volume(v), veh/h | 73 | 152 | 165 | 23 | 0 | 281 | 139 | 1004 | 31 | 67 | 696 | 26 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1501 | 1781 | 0 | 1690 | 1781 | 1702 | 1449 | 1781 | 1702 | 1432 |
| Q Serve(g_s), s | 2.2 | 3.5 | 4.9 | 0.7 | 0.0 | 8.2 | 4.2 | 9.4 | 0.8 | 2.0 | 6.5 | 0.8 |
| Cycle Q Clear(g_c), s | 2.2 | 3.5 | 4.9 | 0.7 | 0.0 | 8.2 | 4.2 | 9.4 | 0.8 | 2.0 | 6.5 | 0.8 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.42 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 108 | 543 | 436 | 48 | 0 | 433 | 179 | 1551 | 440 | 103 | 1335 | 374 |
| V/C Ratio(X) | 0.67 | 0.28 | 0.38 | 0.48 | 0.00 | 0.65 | 0.78 | 0.65 | 0.07 | 0.65 | 0.52 | 0.07 |
| Avail Cap(c_a), veh/h | 193 | 614 | 493 | 190 | 0 | 552 | 289 | 1952 | 554 | 222 | 1759 | 493 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 25.5 | 15.2 | 15.7 | 26.6 | 0.0 | 18.4 | 24.3 | 16.7 | 13.7 | 25.6 | 17.5 | 15.4 |
| Incr Delay (d2), s/veh | 7.0 | 0.3 | 0.5 | 7.3 | 0.0 | 1.7 | 7.1 | 0.5 | 0.1 | 6.6 | 0.3 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.1 | 1.3 | 1.4 | 0.4 | 0.0 | 2.9 | 1.9 | 3.0 | 0.2 | 0.9 | 2.1 | 0.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 32.5 | 15.5 | 16.2 | 33.9 | 0.0 | 20.1 | 31.5 | 17.2 | 13.8 | 32.2 | 17.8 | 15.5 |
| LnGrp LOS | C | B | B | C | A | C | C | B | B | C | B | B |
| Approach Vol, veh/h | | 390 | | | 304 | | | 1174 | | | 789 | |
| Approach Delay, s/veh | | 19.0 | | | 21.2 | | | 18.8 | | | 19.0 | |
| Approach LOS | | B | | | C | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 7.2 | 21.7 | 5.5 | 21.0 | 9.6 | 19.4 | 7.4 | 19.1 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 6.9 | 21.2 | 5.9 | 18.2 | 9.0 | 19.1 | 6.0 | 18.1 |
| Max Q Clear Time (g_c+I1), s | 4.0 | 11.4 | 2.7 | 6.9 | 6.2 | 8.5 | 4.2 | 10.2 |
| Green Ext Time (p_c), s | 0.0 | 4.4 | 0.0 | 1.0 | 0.1 | 3.2 | 0.0 | 0.9 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 19.2 |
| HCM 6th LOS | B |

3: Willow Ave & Behymer Ave Existing Plu

Queues 12/12/2023



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 73 | 152 | 249 | 23 | 331 | 139 | 1004 | 39 | 67 | 696 | 52 |
| v/c Ratio | 0.35 | 0.28 | 0.41 | 0.11 | 0.69 | 0.49 | 0.54 | 0.06 | 0.30 | 0.47 | 0.10 |
| Control Delay | 34.6 | 20.4 | 5.7 | 31.0 | 25.7 | 34.7 | 18.2 | 0.2 | 32.3 | 19.8 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 34.6 | 20.4 | 5.7 | 31.0 | 25.7 | 34.7 | 18.2 | 0.2 | 32.3 | 19.8 | 0.4 |
| Queue Length 50th (ft) | 29 | 41 | 0 | 9 | 98 | 55 | 130 | 0 | 26 | 88 | 0 |
| Queue Length 95th (ft) | #72 | 99 | 50 | 30 | #190 | #125 | 178 | 0 | 64 | 126 | 0 |
| Internal Link Dist (ft) | | 2660 | | | 5395 | | 1188 | | | 2623 | |
| Turn Bay Length (ft) | 235 | | | 88 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 215 | 731 | 736 | 211 | 657 | 323 | 2280 | 725 | 247 | 1969 | 647 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.34 | 0.21 | 0.34 | 0.11 | 0.50 | 0.43 | 0.44 | 0.05 | 0.27 | 0.35 | 0.08 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

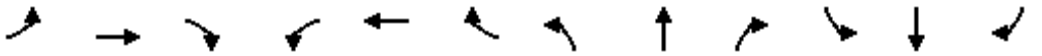
| Intersection | |
|---|---|
| Intersection Delay, s/veh | 46.9 |
| Intersection LOS | E |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 2 | 150 | 70 | 6 | 198 | 244 | 108 | 236 | 9 | 133 | 230 | 1 |
| Future Vol, veh/h | 2 | 150 | 70 | 6 | 198 | 244 | 108 | 236 | 9 | 133 | 230 | 1 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 2 | 155 | 72 | 6 | 204 | 252 | 111 | 243 | 9 | 137 | 237 | 1 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 22.1 | 65.5 | 41.4 | 44.6 |
| HCM LOS | C | F | E | E |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 31% | 1% | 1% | 37% |
| Vol Thru, % | 67% | 68% | 44% | 63% |
| Vol Right, % | 3% | 32% | 54% | 0% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 353 | 222 | 448 | 364 |
| LT Vol | 108 | 2 | 6 | 133 |
| Through Vol | 236 | 150 | 198 | 230 |
| RT Vol | 9 | 70 | 244 | 1 |
| Lane Flow Rate | 364 | 229 | 462 | 375 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.835 | 0.552 | 0.984 | 0.859 |
| Departure Headway (Hd) | 8.264 | 8.787 | 7.671 | 8.243 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 437 | 414 | 476 | 439 |
| Service Time | 6.356 | 6.787 | 5.671 | 6.334 |
| HCM Lane V/C Ratio | 0.833 | 0.553 | 0.971 | 0.854 |
| HCM Control Delay | 41.4 | 22.1 | 65.5 | 44.6 |
| HCM Lane LOS | E | C | F | E |
| HCM 95th-tile Q | 8 | 3.2 | 12.7 | 8.6 |

5: Minnewawa Ave & Shepherd Ave — Existing Plu
HCM 6th Signalized Intersection Summary — 12/12/2023



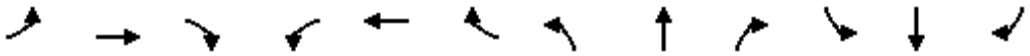
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 30 | 422 | 111 | 132 | 553 | 161 | 129 | 154 | 45 | 138 | 185 | 43 |
| Future Volume (veh/h) | 30 | 422 | 111 | 132 | 553 | 161 | 129 | 154 | 45 | 138 | 185 | 43 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.97 | 1.00 | | 0.97 | 1.00 | | 0.97 | 1.00 | | 0.95 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 32 | 449 | 101 | 140 | 588 | 87 | 137 | 164 | 39 | 147 | 197 | 33 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 62 | 1133 | 488 | 183 | 723 | 593 | 179 | 289 | 238 | 192 | 302 | 244 |
| Arrive On Green | 0.03 | 0.32 | 0.32 | 0.10 | 0.39 | 0.39 | 0.10 | 0.15 | 0.15 | 0.11 | 0.16 | 0.16 |
| Sat Flow, veh/h | 1781 | 3554 | 1532 | 1781 | 1870 | 1536 | 1781 | 1870 | 1540 | 1781 | 1870 | 1511 |
| Grp Volume(v), veh/h | 32 | 449 | 101 | 140 | 588 | 87 | 137 | 164 | 39 | 147 | 197 | 33 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1777 | 1532 | 1781 | 1870 | 1536 | 1781 | 1870 | 1540 | 1781 | 1870 | 1511 |
| Q Serve(g_s), s | 1.0 | 5.5 | 2.7 | 4.3 | 15.8 | 2.1 | 4.2 | 4.6 | 1.2 | 4.5 | 5.6 | 1.1 |
| Cycle Q Clear(g_c), s | 1.0 | 5.5 | 2.7 | 4.3 | 15.8 | 2.1 | 4.2 | 4.6 | 1.2 | 4.5 | 5.6 | 1.1 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 62 | 1133 | 488 | 183 | 723 | 593 | 179 | 289 | 238 | 192 | 302 | 244 |
| V/C Ratio(X) | 0.51 | 0.40 | 0.21 | 0.77 | 0.81 | 0.15 | 0.76 | 0.57 | 0.16 | 0.77 | 0.65 | 0.14 |
| Avail Cap(c_a), veh/h | 190 | 2471 | 1065 | 475 | 1600 | 1314 | 507 | 702 | 578 | 475 | 669 | 540 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 26.7 | 14.9 | 14.0 | 24.6 | 15.4 | 11.2 | 24.6 | 22.0 | 20.6 | 24.4 | 22.1 | 20.2 |
| Incr Delay (d2), s/veh | 6.4 | 0.2 | 0.2 | 6.5 | 2.3 | 0.1 | 6.6 | 1.7 | 0.3 | 6.3 | 2.4 | 0.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.5 | 1.8 | 0.8 | 1.9 | 5.4 | 0.6 | 1.8 | 1.8 | 0.4 | 2.0 | 2.2 | 0.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 33.1 | 15.2 | 14.2 | 31.1 | 17.7 | 11.3 | 31.2 | 23.8 | 20.9 | 30.7 | 24.5 | 20.5 |
| LnGrp LOS | C | B | B | C | B | B | C | C | C | C | C | C |
| Approach Vol, veh/h | | 582 | | | 815 | | | 340 | | | 377 | |
| Approach Delay, s/veh | | 16.0 | | | 19.3 | | | 26.4 | | | 26.6 | |
| Approach LOS | | B | | | B | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 10.0 | 13.6 | 9.8 | 22.8 | 9.7 | 14.0 | 6.0 | 26.6 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 15.0 | 21.1 | 15.0 | 39.1 | 16.0 | 20.1 | 6.0 | 48.1 |
| Max Q Clear Time (g_c+I1), s | 6.5 | 6.6 | 6.3 | 7.5 | 6.2 | 7.6 | 3.0 | 17.8 |
| Green Ext Time (p_c), s | 0.2 | 0.7 | 0.2 | 3.1 | 0.2 | 0.8 | 0.0 | 3.9 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 20.8 |
| HCM 6th LOS | C |

5: Minnewawa Ave & Shepherd Ave Existing Plu

Queues 12/12/2023



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 32 | 449 | 118 | 140 | 588 | 171 | 137 | 164 | 48 | 147 | 197 | 46 |
| v/c Ratio | 0.22 | 0.45 | 0.22 | 0.54 | 0.75 | 0.23 | 0.52 | 0.51 | 0.13 | 0.56 | 0.48 | 0.10 |
| Control Delay | 47.8 | 24.9 | 4.0 | 44.9 | 28.0 | 4.7 | 44.2 | 39.6 | 0.7 | 45.4 | 38.1 | 0.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 47.8 | 24.9 | 4.0 | 44.9 | 28.0 | 4.7 | 44.2 | 39.6 | 0.7 | 45.4 | 38.1 | 0.5 |
| Queue Length 50th (ft) | 16 | 94 | 0 | 68 | 264 | 4 | 66 | 78 | 0 | 71 | 95 | 0 |
| Queue Length 95th (ft) | 54 | 161 | 27 | 157 | 456 | 44 | 152 | 168 | 0 | 165 | 201 | 0 |
| Internal Link Dist (ft) | | 2560 | | | 1263 | | | 2631 | | | 2555 | |
| Turn Bay Length (ft) | 250 | | 45 | 250 | | 200 | 250 | | | 255 | | 25 |
| Base Capacity (vph) | 146 | 1911 | 885 | 366 | 1237 | 1063 | 391 | 542 | 548 | 366 | 517 | 521 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.22 | 0.23 | 0.13 | 0.38 | 0.48 | 0.16 | 0.35 | 0.30 | 0.09 | 0.40 | 0.38 | 0.09 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.4 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 29 | 576 | 14 | 5 | 761 | 23 | 0 | 0 | 14 | 0 | 0 | 92 |
| Future Vol, veh/h | 29 | 576 | 14 | 5 | 761 | 23 | 0 | 0 | 14 | 0 | 0 | 92 |
| Conflicting Peds, #/hr | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 265 | - | - | 265 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 31 | 606 | 15 | 5 | 801 | 24 | 0 | 0 | 15 | 0 | 0 | 97 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 830 | 0 | 0 | 626 | 0 | 0 | - | - | 321 | - | - | 811 |
| Stage 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Critical Hdwy | 4.13 | - | - | 4.13 | - | - | - | - | 6.93 | - | - | 6.23 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Follow-up Hdwy | 2.219 | - | - | 2.219 | - | - | - | - | 3.319 | - | - | 3.319 |
| Pot Cap-1 Maneuver | 800 | - | - | 954 | - | - | 0 | 0 | 675 | 0 | 0 | 378 |
| Stage 1 | - | - | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Stage 2 | - | - | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 796 | - | - | 949 | - | - | - | - | 669 | - | - | 374 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s | 0.5 | 0.1 | 10.5 | 18 |
| HCM LOS | | | B | C |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 669 | 796 | - | - | 949 | - | - | 374 |
| HCM Lane V/C Ratio | 0.022 | 0.038 | - | - | 0.006 | - | - | 0.259 |
| HCM Control Delay (s) | 10.5 | 9.7 | - | - | 8.8 | - | - | 18 |
| HCM Lane LOS | B | A | - | - | A | - | - | C |
| HCM 95th %tile Q(veh) | 0.1 | 0.1 | - | - | 0 | - | - | 1 |

7: Clovis Ave & Shepherd Ave — Existing Plu

HCM 6th Signalized Intersection Summary

12/12/2023

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 55 | 383 | 156 | 100 | 584 | 20 | 166 | 49 | 41 | 57 | 70 | 47 |
| Future Volume (veh/h) | 55 | 383 | 156 | 100 | 584 | 20 | 166 | 49 | 41 | 57 | 70 | 47 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 62 | 430 | 153 | 112 | 656 | 21 | 187 | 55 | 39 | 64 | 79 | 28 |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 204 | 980 | 428 | 282 | 1061 | 463 | 249 | 724 | 315 | 208 | 441 | 190 |
| Arrive On Green | 0.06 | 0.28 | 0.28 | 0.08 | 0.30 | 0.30 | 0.14 | 0.20 | 0.20 | 0.06 | 0.12 | 0.12 |
| Sat Flow, veh/h | 3456 | 3554 | 1551 | 3456 | 3554 | 1552 | 1781 | 3554 | 1546 | 3456 | 3554 | 1533 |
| Grp Volume(v), veh/h | 62 | 430 | 153 | 112 | 656 | 21 | 187 | 55 | 39 | 64 | 79 | 28 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1551 | 1728 | 1777 | 1552 | 1781 | 1777 | 1546 | 1728 | 1777 | 1533 |
| Q Serve(g_s), s | 0.8 | 4.7 | 3.7 | 1.4 | 7.5 | 0.5 | 4.7 | 0.6 | 1.0 | 0.8 | 0.9 | 0.8 |
| Cycle Q Clear(g_c), s | 0.8 | 4.7 | 3.7 | 1.4 | 7.5 | 0.5 | 4.7 | 0.6 | 1.0 | 0.8 | 0.9 | 0.8 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 204 | 980 | 428 | 282 | 1061 | 463 | 249 | 724 | 315 | 208 | 441 | 190 |
| V/C Ratio(X) | 0.30 | 0.44 | 0.36 | 0.40 | 0.62 | 0.05 | 0.75 | 0.08 | 0.12 | 0.31 | 0.18 | 0.15 |
| Avail Cap(c_a), veh/h | 588 | 2803 | 1224 | 808 | 3030 | 1324 | 1061 | 3181 | 1384 | 588 | 1670 | 721 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 21.2 | 14.0 | 13.7 | 20.5 | 14.2 | 11.7 | 19.4 | 15.1 | 15.3 | 21.2 | 18.4 | 18.4 |
| Incr Delay (d2), s/veh | 0.8 | 0.3 | 0.5 | 0.9 | 0.6 | 0.0 | 4.5 | 0.0 | 0.2 | 0.8 | 0.2 | 0.4 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 1.4 | 1.0 | 0.5 | 2.2 | 0.1 | 1.9 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 22.0 | 14.3 | 14.2 | 21.4 | 14.8 | 11.8 | 23.9 | 15.2 | 15.5 | 22.0 | 18.6 | 18.7 |
| LnGrp LOS | C | B | B | C | B | B | C | B | B | C | B | B |
| Approach Vol, veh/h | | 645 | | | 789 | | | 281 | | | 171 | |
| Approach Delay, s/veh | | 15.0 | | | 15.6 | | | 21.1 | | | 19.9 | |
| Approach LOS | | B | | | B | | | C | | | B | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 6.8 | 14.5 | 7.8 | 17.9 | 10.6 | 10.7 | 6.8 | 18.9 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 8.0 | 42.1 | 11.0 | 37.1 | 28.0 | 22.1 | 8.0 | 40.1 |
| Max Q Clear Time (g_c+I1), s | 2.8 | 3.0 | 3.4 | 6.7 | 6.7 | 2.9 | 2.8 | 9.5 |
| Green Ext Time (p_c), s | 0.0 | 0.4 | 0.2 | 3.1 | 0.5 | 0.4 | 0.0 | 4.3 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 16.6 |
| HCM 6th LOS | B |

7: Clovis Ave & Shepherd Ave Existing Plu

Queues 12/12/2023

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 62 | 430 | 175 | 112 | 656 | 22 | 187 | 55 | 46 | 64 | 79 | 53 |
| v/c Ratio | 0.16 | 0.45 | 0.34 | 0.24 | 0.57 | 0.04 | 0.50 | 0.05 | 0.09 | 0.16 | 0.18 | 0.18 |
| Control Delay | 30.0 | 21.2 | 9.1 | 29.0 | 20.6 | 0.1 | 28.7 | 21.0 | 1.4 | 29.9 | 29.5 | 1.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 30.0 | 21.2 | 9.1 | 29.0 | 20.6 | 0.1 | 28.7 | 21.0 | 1.4 | 29.9 | 29.5 | 1.3 |
| Queue Length 50th (ft) | 11 | 70 | 12 | 20 | 112 | 0 | 63 | 8 | 0 | 11 | 14 | 0 |
| Queue Length 95th (ft) | 32 | 127 | 59 | 49 | 190 | 0 | 138 | 24 | 6 | 32 | 39 | 0 |
| Internal Link Dist (ft) | | 1234 | | | 1233 | | | 1070 | | | 873 | |
| Turn Bay Length (ft) | 250 | | 50 | 250 | | 255 | 235 | | 65 | 255 | | 100 |
| Base Capacity (vph) | 487 | 2329 | 1060 | 670 | 2472 | 1118 | 879 | 2561 | 1143 | 487 | 1387 | 683 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.13 | 0.18 | 0.17 | 0.17 | 0.27 | 0.02 | 0.21 | 0.02 | 0.04 | 0.13 | 0.06 | 0.08 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 8 |

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 88 | 30 | 1 | 1 | 1 |
| Future Vol, veh/h | 0 | 88 | 30 | 1 | 1 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | 0 | 100 | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 96 | 33 | 1 | 1 | 1 |

| Major/Minor | Minor2 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | - | 1 | 2 | 0 | - | 0 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 0 | 1083 | 1619 | - | - | - |
| Stage 1 | 0 | - | - | - | - | - |
| Stage 2 | 0 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | - | 1083 | 1619 | - | - | - |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

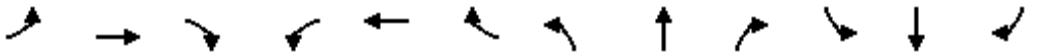
| Approach | EB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 8.6 | 7 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---|---|---|---|---|---|
| Capacity (veh/h) | 1619 | - | 1083 | - | - |
| HCM Lane V/C Ratio | 0.02 | - | 0.088 | - | - |
| HCM Control Delay (s) | 7.3 | - | 8.6 | - | - |
| HCM Lane LOS | A | - | A | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | 0.3 | - | - |

1: Willow Ave & International Ave — Existing Plu

HCM 6th Signalized Intersection Summary

12/12/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 18 | 70 | 163 | 19 | 94 | 50 | 186 | 466 | 20 | 63 | 424 | 37 |
| Future Volume (veh/h) | 18 | 70 | 163 | 19 | 94 | 50 | 186 | 466 | 20 | 63 | 424 | 37 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.96 | 1.00 | | 0.96 | 1.00 | | 0.95 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 20 | 80 | 110 | 22 | 107 | 38 | 211 | 530 | 17 | 72 | 482 | 36 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 45 | 285 | 231 | 49 | 289 | 234 | 409 | 980 | 416 | 125 | 1163 | 349 |
| Arrive On Green | 0.03 | 0.15 | 0.15 | 0.03 | 0.15 | 0.15 | 0.12 | 0.28 | 0.28 | 0.07 | 0.23 | 0.23 |
| Sat Flow, veh/h | 1781 | 1870 | 1517 | 1781 | 1870 | 1517 | 3456 | 3554 | 1508 | 1781 | 5106 | 1533 |
| Grp Volume(v), veh/h | 20 | 80 | 110 | 22 | 107 | 38 | 211 | 530 | 17 | 72 | 482 | 36 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1517 | 1781 | 1870 | 1517 | 1728 | 1777 | 1508 | 1781 | 1702 | 1533 |
| Q Serve(g_s), s | 0.4 | 1.4 | 2.5 | 0.5 | 1.9 | 0.8 | 2.2 | 4.8 | 0.3 | 1.5 | 3.0 | 0.7 |
| Cycle Q Clear(g_c), s | 0.4 | 1.4 | 2.5 | 0.5 | 1.9 | 0.8 | 2.2 | 4.8 | 0.3 | 1.5 | 3.0 | 0.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 45 | 285 | 231 | 49 | 289 | 234 | 409 | 980 | 416 | 125 | 1163 | 349 |
| V/C Ratio(X) | 0.45 | 0.28 | 0.48 | 0.45 | 0.37 | 0.16 | 0.52 | 0.54 | 0.04 | 0.57 | 0.41 | 0.10 |
| Avail Cap(c_a), veh/h | 380 | 1101 | 893 | 380 | 1101 | 893 | 1289 | 2850 | 1209 | 569 | 3822 | 1147 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 18.0 | 14.1 | 14.5 | 18.0 | 14.2 | 13.8 | 15.5 | 11.6 | 10.0 | 16.9 | 12.4 | 11.5 |
| Incr Delay (d2), s/veh | 6.9 | 0.5 | 1.5 | 6.4 | 0.8 | 0.3 | 1.0 | 0.5 | 0.0 | 4.1 | 0.2 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.2 | 0.5 | 0.8 | 0.2 | 0.7 | 0.2 | 0.7 | 1.2 | 0.1 | 0.6 | 0.8 | 0.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 24.9 | 14.6 | 16.1 | 24.4 | 15.0 | 14.1 | 16.5 | 12.0 | 10.0 | 21.0 | 12.6 | 11.6 |
| LnGrp LOS | C | B | B | C | B | B | B | B | A | C | B | B |
| Approach Vol, veh/h | | 210 | | | 167 | | | 758 | | | 590 | |
| Approach Delay, s/veh | | 16.4 | | | 16.0 | | | 13.2 | | | 13.6 | |
| Approach LOS | | B | | | B | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 6.6 | 15.3 | 5.0 | 10.6 | 8.4 | 13.4 | 4.9 | 10.7 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 12.0 | 30.1 | 8.0 | 22.1 | 14.0 | 28.1 | 8.0 | 22.1 |
| Max Q Clear Time (g_c+I1), s | 3.5 | 6.8 | 2.5 | 4.5 | 4.2 | 5.0 | 2.4 | 3.9 |
| Green Ext Time (p_c), s | 0.1 | 3.2 | 0.0 | 0.7 | 0.4 | 3.0 | 0.0 | 0.6 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 14.0 |
| HCM 6th LOS | B |

1: Willow Ave & International Ave Existing Plu

Queues 12/12/2023

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 20 | 80 | 185 | 22 | 107 | 57 | 211 | 530 | 23 | 72 | 482 | 42 |
| v/c Ratio | 0.08 | 0.23 | 0.42 | 0.09 | 0.30 | 0.15 | 0.32 | 0.38 | 0.03 | 0.24 | 0.36 | 0.09 |
| Control Delay | 23.9 | 21.0 | 7.8 | 23.8 | 21.8 | 1.3 | 20.1 | 13.9 | 0.1 | 22.4 | 15.5 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 23.9 | 21.0 | 7.8 | 23.8 | 21.8 | 1.3 | 20.1 | 13.9 | 0.1 | 22.4 | 15.5 | 0.4 |
| Queue Length 50th (ft) | 4 | 15 | 0 | 4 | 21 | 0 | 21 | 52 | 0 | 14 | 32 | 0 |
| Queue Length 95th (ft) | 26 | 64 | 47 | 28 | 81 | 3 | 69 | 139 | 0 | 61 | 84 | 0 |
| Internal Link Dist (ft) | | 2470 | | | 1342 | | | 2623 | | | 1390 | |
| Turn Bay Length (ft) | 250 | | | | | 25 | 250 | | | 250 | | 205 |
| Base Capacity (vph) | 329 | 958 | 877 | 329 | 958 | 846 | 1118 | 2480 | 1091 | 494 | 3326 | 1046 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.06 | 0.08 | 0.21 | 0.07 | 0.11 | 0.07 | 0.19 | 0.21 | 0.02 | 0.15 | 0.14 | 0.04 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 3 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 6 | 0 | 96 | 0 | 0 | 0 | 151 | 286 | 1 | 0 | 279 | 3 |
| Future Vol, veh/h | 6 | 0 | 96 | 0 | 0 | 0 | 151 | 286 | 1 | 0 | 279 | 3 |
| Conflicting Peds, #/hr | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 7 | 0 | 107 | 0 | 0 | 0 | 168 | 318 | 1 | 0 | 310 | 3 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 977 | 977 | 322 | 1030 | 978 | 329 | 318 | 0 | 0 | 324 | 0 | 0 |
| Stage 1 | 317 | 317 | - | 660 | 660 | - | - | - | - | - | - | - |
| Stage 2 | 660 | 660 | - | 370 | 318 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 230 | 251 | 719 | 212 | 250 | 712 | 1242 | - | - | 1236 | - | - |
| Stage 1 | 694 | 654 | - | 452 | 460 | - | - | - | - | - | - | - |
| Stage 2 | 452 | 460 | - | 650 | 654 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 199 | 208 | 712 | 156 | 207 | 705 | 1236 | - | - | 1230 | - | - |
| Mov Cap-2 Maneuver | 199 | 208 | - | 156 | 207 | - | - | - | - | - | - | - |
| Stage 1 | 577 | 651 | - | 376 | 382 | - | - | - | - | - | - | - |
| Stage 2 | 376 | 382 | - | 550 | 651 | - | - | - | - | - | - | - |

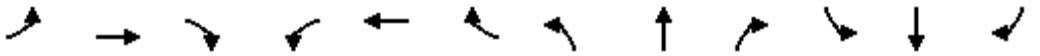
| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s | 12.1 | 0 | 2.9 | 0 |
| HCM LOS | B | A | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 1236 | - | - | 618 | - | 1230 | - | - |
| HCM Lane V/C Ratio | 0.136 | - | - | 0.183 | - | - | - | - |
| HCM Control Delay (s) | 8.4 | 0 | - | 12.1 | 0 | 0 | - | - |
| HCM Lane LOS | A | A | - | B | A | A | - | - |
| HCM 95th %tile Q(veh) | 0.5 | - | - | 0.7 | - | 0 | - | - |

3: Willow Ave & Behymer Ave — Existing Plu

HCM 6th Signalized Intersection Summary

12/12/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 18 | 101 | 123 | 26 | 146 | 83 | 147 | 660 | 34 | 125 | 630 | 22 |
| Future Volume (veh/h) | 18 | 101 | 123 | 26 | 146 | 83 | 147 | 660 | 34 | 125 | 630 | 22 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.97 | 1.00 | | 0.97 | 1.00 | | 0.96 | 1.00 | | 0.96 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 21 | 116 | 112 | 30 | 168 | 72 | 169 | 759 | 33 | 144 | 724 | 8 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 46 | 362 | 297 | 62 | 249 | 107 | 219 | 1376 | 409 | 187 | 1284 | 381 |
| Arrive On Green | 0.03 | 0.19 | 0.19 | 0.03 | 0.20 | 0.20 | 0.12 | 0.27 | 0.27 | 0.10 | 0.25 | 0.25 |
| Sat Flow, veh/h | 1781 | 1870 | 1536 | 1781 | 1229 | 527 | 1781 | 5106 | 1517 | 1781 | 5106 | 1515 |
| Grp Volume(v), veh/h | 21 | 116 | 112 | 30 | 0 | 240 | 169 | 759 | 33 | 144 | 724 | 8 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1536 | 1781 | 0 | 1756 | 1781 | 1702 | 1517 | 1781 | 1702 | 1515 |
| Q Serve(g_s), s | 0.5 | 2.4 | 2.8 | 0.7 | 0.0 | 5.7 | 4.1 | 5.7 | 0.7 | 3.5 | 5.5 | 0.2 |
| Cycle Q Clear(g_c), s | 0.5 | 2.4 | 2.8 | 0.7 | 0.0 | 5.7 | 4.1 | 5.7 | 0.7 | 3.5 | 5.5 | 0.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.30 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 46 | 362 | 297 | 62 | 0 | 356 | 219 | 1376 | 409 | 187 | 1284 | 381 |
| V/C Ratio(X) | 0.46 | 0.32 | 0.38 | 0.48 | 0.00 | 0.67 | 0.77 | 0.55 | 0.08 | 0.77 | 0.56 | 0.02 |
| Avail Cap(c_a), veh/h | 235 | 752 | 618 | 235 | 0 | 706 | 398 | 2202 | 654 | 358 | 2087 | 619 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 21.5 | 15.5 | 15.7 | 21.2 | 0.0 | 16.5 | 19.0 | 14.0 | 12.2 | 19.5 | 14.6 | 12.6 |
| Incr Delay (d2), s/veh | 7.0 | 0.5 | 0.8 | 5.8 | 0.0 | 2.2 | 5.7 | 0.3 | 0.1 | 6.6 | 0.4 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 0.9 | 0.8 | 0.4 | 0.0 | 2.0 | 1.7 | 1.6 | 0.2 | 1.5 | 1.6 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 28.5 | 16.0 | 16.5 | 27.0 | 0.0 | 18.7 | 24.8 | 14.4 | 12.3 | 26.2 | 15.0 | 12.6 |
| LnGrp LOS | C | B | B | C | A | B | C | B | B | C | B | B |
| Approach Vol, veh/h | | 249 | | | 270 | | | 961 | | | 876 | |
| Approach Delay, s/veh | | 17.3 | | | 19.6 | | | 16.1 | | | 16.8 | |
| Approach LOS | | B | | | B | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 8.7 | 17.0 | 5.6 | 13.6 | 9.5 | 16.2 | 5.1 | 14.0 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 9.0 | 19.3 | 5.9 | 18.0 | 10.0 | 18.3 | 5.9 | 18.0 |
| Max Q Clear Time (g_c+I1), s | 5.5 | 7.7 | 2.7 | 4.8 | 6.1 | 7.5 | 2.5 | 7.7 |
| Green Ext Time (p_c), s | 0.1 | 3.7 | 0.0 | 0.7 | 0.1 | 3.3 | 0.0 | 0.9 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 16.9 |
| HCM 6th LOS | B |

3: Willow Ave & Behymer Ave Existing Plu

Queues 12/12/2023



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 21 | 116 | 141 | 30 | 263 | 169 | 759 | 39 | 144 | 724 | 25 |
| v/c Ratio | 0.09 | 0.27 | 0.30 | 0.13 | 0.54 | 0.49 | 0.50 | 0.07 | 0.46 | 0.50 | 0.05 |
| Control Delay | 27.7 | 21.3 | 5.7 | 27.8 | 20.0 | 29.7 | 17.6 | 0.2 | 30.1 | 18.3 | 0.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 27.7 | 21.3 | 5.7 | 27.8 | 20.0 | 29.7 | 17.6 | 0.2 | 30.1 | 18.3 | 0.2 |
| Queue Length 50th (ft) | 6 | 27 | 0 | 8 | 56 | 43 | 64 | 0 | 37 | 63 | 0 |
| Queue Length 95th (ft) | 27 | 76 | 31 | 35 | 145 | #141 | 131 | 0 | #124 | 128 | 0 |
| Internal Link Dist (ft) | | 2660 | | | 5395 | | 1188 | | | 2623 | |
| Turn Bay Length (ft) | 235 | | | 88 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 232 | 747 | 711 | 232 | 736 | 394 | 2188 | 740 | 355 | 2075 | 708 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.09 | 0.16 | 0.20 | 0.13 | 0.36 | 0.43 | 0.35 | 0.05 | 0.41 | 0.35 | 0.04 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 62.4 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 3 | 184 | 57 | 5 | 173 | 191 | 72 | 226 | 16 | 164 | 209 | 6 |
| Future Vol, veh/h | 3 | 184 | 57 | 5 | 173 | 191 | 72 | 226 | 16 | 164 | 209 | 6 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 211 | 66 | 6 | 199 | 220 | 83 | 260 | 18 | 189 | 240 | 7 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

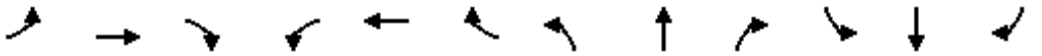
| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 31.6 | 65.1 | 49.6 | 90.3 |
| HCM LOS | D | F | E | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 23% | 1% | 1% | 43% |
| Vol Thru, % | 72% | 75% | 47% | 55% |
| Vol Right, % | 5% | 23% | 52% | 2% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 314 | 244 | 369 | 379 |
| LT Vol | 72 | 3 | 5 | 164 |
| Through Vol | 226 | 184 | 173 | 209 |
| RT Vol | 16 | 57 | 191 | 6 |
| Lane Flow Rate | 361 | 280 | 424 | 436 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.872 | 0.7 | 0.965 | 1.057 |
| Departure Headway (Hd) | 9.08 | 9.403 | 8.549 | 8.736 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 401 | 387 | 428 | 418 |
| Service Time | 7.08 | 7.403 | 6.549 | 6.736 |
| HCM Lane V/C Ratio | 0.9 | 0.724 | 0.991 | 1.043 |
| HCM Control Delay | 49.6 | 31.6 | 65.1 | 90.3 |
| HCM Lane LOS | E | D | F | F |
| HCM 95th-tile Q | 8.6 | 5.2 | 11.5 | 14.3 |

5: Minnewawa Ave & Shepherd Ave — Existing Plu

HCM 6th Signalized Intersection Summary

12/12/2023



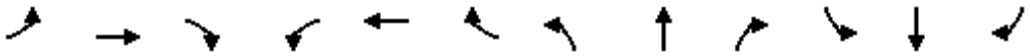
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 48 | 505 | 86 | 80 | 464 | 122 | 119 | 187 | 70 | 108 | 183 | 35 |
| Future Volume (veh/h) | 48 | 505 | 86 | 80 | 464 | 122 | 119 | 187 | 70 | 108 | 183 | 35 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.96 | 1.00 | | 0.96 | 1.00 | | 0.97 | 1.00 | | 0.95 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 55 | 574 | 86 | 91 | 527 | 77 | 135 | 212 | 74 | 123 | 208 | 32 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 92 | 1193 | 512 | 122 | 659 | 538 | 178 | 335 | 275 | 161 | 317 | 255 |
| Arrive On Green | 0.05 | 0.34 | 0.34 | 0.07 | 0.35 | 0.35 | 0.10 | 0.18 | 0.18 | 0.09 | 0.17 | 0.17 |
| Sat Flow, veh/h | 1781 | 3554 | 1526 | 1781 | 1870 | 1527 | 1781 | 1870 | 1536 | 1781 | 1870 | 1500 |
| Grp Volume(v), veh/h | 55 | 574 | 86 | 91 | 527 | 77 | 135 | 212 | 74 | 123 | 208 | 32 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1777 | 1526 | 1781 | 1870 | 1527 | 1781 | 1870 | 1536 | 1781 | 1870 | 1500 |
| Q Serve(g_s), s | 1.6 | 7.0 | 2.2 | 2.7 | 13.9 | 1.9 | 4.0 | 5.7 | 2.3 | 3.7 | 5.7 | 1.0 |
| Cycle Q Clear(g_c), s | 1.6 | 7.0 | 2.2 | 2.7 | 13.9 | 1.9 | 4.0 | 5.7 | 2.3 | 3.7 | 5.7 | 1.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 92 | 1193 | 512 | 122 | 659 | 538 | 178 | 335 | 275 | 161 | 317 | 255 |
| V/C Ratio(X) | 0.60 | 0.48 | 0.17 | 0.74 | 0.80 | 0.14 | 0.76 | 0.63 | 0.27 | 0.77 | 0.66 | 0.13 |
| Avail Cap(c_a), veh/h | 196 | 2678 | 1150 | 327 | 1547 | 1263 | 555 | 895 | 735 | 425 | 758 | 608 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 25.3 | 14.4 | 12.8 | 24.9 | 15.9 | 12.0 | 23.9 | 20.7 | 19.3 | 24.2 | 21.1 | 19.2 |
| Incr Delay (d2), s/veh | 6.0 | 0.3 | 0.2 | 8.6 | 2.3 | 0.1 | 6.5 | 2.0 | 0.5 | 7.4 | 2.3 | 0.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.8 | 2.2 | 0.6 | 1.3 | 4.8 | 0.5 | 1.8 | 2.2 | 0.7 | 1.6 | 2.3 | 0.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 31.3 | 14.7 | 12.9 | 33.6 | 18.2 | 12.2 | 30.5 | 22.7 | 19.8 | 31.6 | 23.4 | 19.4 |
| LnGrp LOS | C | B | B | C | B | B | C | C | B | C | C | B |
| Approach Vol, veh/h | | 715 | | | 695 | | | 421 | | | 363 | |
| Approach Delay, s/veh | | 15.7 | | | 19.6 | | | 24.7 | | | 25.9 | |
| Approach LOS | | B | | | B | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 8.9 | 14.7 | 7.7 | 23.2 | 9.4 | 14.2 | 6.8 | 24.1 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 13.0 | 26.1 | 10.0 | 41.1 | 17.0 | 22.1 | 6.0 | 45.1 |
| Max Q Clear Time (g_c+I1), s | 5.7 | 7.7 | 4.7 | 9.0 | 6.0 | 7.7 | 3.6 | 15.9 |
| Green Ext Time (p_c), s | 0.1 | 1.1 | 0.1 | 3.9 | 0.2 | 0.9 | 0.0 | 3.4 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 20.3 |
| HCM 6th LOS | C |

5: Minnewawa Ave & Shepherd Ave Existing Plu

Queues 12/12/2023



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 55 | 574 | 98 | 91 | 527 | 139 | 135 | 213 | 80 | 123 | 208 | 40 |
| v/c Ratio | 0.34 | 0.46 | 0.16 | 0.41 | 0.73 | 0.21 | 0.47 | 0.53 | 0.20 | 0.47 | 0.55 | 0.10 |
| Control Delay | 48.8 | 22.6 | 5.3 | 45.2 | 29.3 | 4.7 | 41.6 | 36.4 | 5.6 | 43.9 | 38.9 | 0.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 48.8 | 22.6 | 5.3 | 45.2 | 29.3 | 4.7 | 41.6 | 36.4 | 5.6 | 43.9 | 38.9 | 0.5 |
| Queue Length 50th (ft) | 26 | 119 | 0 | 42 | 225 | 1 | 62 | 96 | 0 | 57 | 95 | 0 |
| Queue Length 95th (ft) | #88 | 196 | 31 | 112 | 400 | 36 | 145 | 196 | 24 | 140 | 202 | 0 |
| Internal Link Dist (ft) | | 2560 | | | 1263 | | | 2631 | | | 2555 | |
| Turn Bay Length (ft) | 250 | | 45 | 250 | | 200 | 250 | | | 255 | | 25 |
| Base Capacity (vph) | 168 | 2096 | 938 | 281 | 1174 | 1006 | 477 | 771 | 695 | 365 | 653 | 592 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.33 | 0.27 | 0.10 | 0.32 | 0.45 | 0.14 | 0.28 | 0.28 | 0.12 | 0.34 | 0.32 | 0.07 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.1 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 61 | 602 | 17 | 10 | 615 | 51 | 0 | 0 | 11 | 0 | 0 | 48 |
| Future Vol, veh/h | 61 | 602 | 17 | 10 | 615 | 51 | 0 | 0 | 11 | 0 | 0 | 48 |
| Conflicting Peds, #/hr | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 265 | - | - | 265 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 68 | 669 | 19 | 11 | 683 | 57 | 0 | 0 | 12 | 0 | 0 | 53 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 745 | 0 | 0 | 693 | 0 | 0 | - | - | 354 | - | - | 693 |
| Stage 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Critical Hdwy | 4.13 | - | - | 4.13 | - | - | - | - | 6.93 | - | - | 6.23 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Follow-up Hdwy | 2.219 | - | - | 2.219 | - | - | - | - | 3.319 | - | - | 3.319 |
| Pot Cap-1 Maneuver | 861 | - | - | 900 | - | - | 0 | 0 | 643 | 0 | 0 | 442 |
| Stage 1 | - | - | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Stage 2 | - | - | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 857 | - | - | 896 | - | - | - | - | 637 | - | - | 438 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s | 0.9 | 0.1 | 10.8 | 14.4 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 637 | 857 | - | - | 896 | - | - | 438 |
| HCM Lane V/C Ratio | 0.019 | 0.079 | - | - | 0.012 | - | - | 0.122 |
| HCM Control Delay (s) | 10.8 | 9.6 | - | - | 9.1 | - | - | 14.4 |
| HCM Lane LOS | B | A | - | - | A | - | - | B |
| HCM 95th %tile Q(veh) | 0.1 | 0.3 | - | - | 0 | - | - | 0.4 |

7: Clovis Ave & Shepherd Ave — Existing Plu

HCM 6th Signalized Intersection Summary

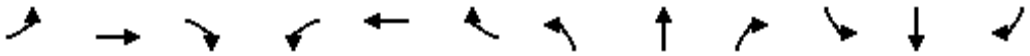
12/12/2023

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 64 | 436 | 132 | 67 | 437 | 56 | 190 | 88 | 57 | 40 | 48 | 38 |
| Future Volume (veh/h) | 64 | 436 | 132 | 67 | 437 | 56 | 190 | 88 | 57 | 40 | 48 | 38 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 74 | 501 | 132 | 77 | 502 | 61 | 218 | 101 | 29 | 46 | 55 | 26 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 230 | 895 | 390 | 236 | 901 | 393 | 289 | 858 | 374 | 167 | 453 | 195 |
| Arrive On Green | 0.07 | 0.25 | 0.25 | 0.07 | 0.25 | 0.25 | 0.16 | 0.24 | 0.24 | 0.05 | 0.13 | 0.13 |
| Sat Flow, veh/h | 3456 | 3554 | 1550 | 3456 | 3554 | 1550 | 1781 | 3554 | 1549 | 3456 | 3554 | 1534 |
| Grp Volume(v), veh/h | 74 | 501 | 132 | 77 | 502 | 61 | 218 | 101 | 29 | 46 | 55 | 26 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1550 | 1728 | 1777 | 1550 | 1781 | 1777 | 1549 | 1728 | 1777 | 1534 |
| Q Serve(g_s), s | 0.9 | 5.6 | 3.2 | 1.0 | 5.6 | 1.4 | 5.3 | 1.0 | 0.7 | 0.6 | 0.6 | 0.7 |
| Cycle Q Clear(g_c), s | 0.9 | 5.6 | 3.2 | 1.0 | 5.6 | 1.4 | 5.3 | 1.0 | 0.7 | 0.6 | 0.6 | 0.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 230 | 895 | 390 | 236 | 901 | 393 | 289 | 858 | 374 | 167 | 453 | 195 |
| V/C Ratio(X) | 0.32 | 0.56 | 0.34 | 0.33 | 0.56 | 0.16 | 0.75 | 0.12 | 0.08 | 0.27 | 0.12 | 0.13 |
| Avail Cap(c_a), veh/h | 682 | 2655 | 1158 | 682 | 2655 | 1158 | 1288 | 3668 | 1599 | 606 | 1721 | 743 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 20.3 | 14.9 | 14.0 | 20.3 | 14.8 | 13.2 | 18.2 | 13.5 | 13.4 | 20.9 | 17.6 | 17.7 |
| Incr Delay (d2), s/veh | 0.8 | 0.6 | 0.5 | 0.8 | 0.5 | 0.2 | 4.0 | 0.1 | 0.1 | 0.9 | 0.1 | 0.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 1.7 | 0.9 | 0.3 | 1.7 | 0.4 | 2.1 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 21.1 | 15.4 | 14.5 | 21.1 | 15.3 | 13.4 | 22.2 | 13.6 | 13.5 | 21.8 | 17.8 | 18.0 |
| LnGrp LOS | C | B | B | C | B | B | C | B | B | C | B | B |
| Approach Vol, veh/h | | 707 | | | 640 | | | 348 | | | 127 | |
| Approach Delay, s/veh | | 15.8 | | | 15.9 | | | 19.0 | | | 19.3 | |
| Approach LOS | | B | | | B | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 6.2 | 15.9 | 7.1 | 16.4 | 11.4 | 10.7 | 7.0 | 16.5 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 8.0 | 47.1 | 9.0 | 34.1 | 33.0 | 22.1 | 9.0 | 34.1 |
| Max Q Clear Time (g_c+I1), s | 2.6 | 3.0 | 3.0 | 7.6 | 7.3 | 2.7 | 2.9 | 7.6 |
| Green Ext Time (p_c), s | 0.0 | 0.7 | 0.1 | 3.5 | 0.6 | 0.3 | 0.1 | 3.2 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 16.7 |
| HCM 6th LOS | B |

AGENDA ITEM NO. 16.



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 74 | 501 | 152 | 77 | 502 | 64 | 218 | 101 | 66 | 46 | 55 | 44 |
| v/c Ratio | 0.17 | 0.55 | 0.31 | 0.18 | 0.55 | 0.13 | 0.54 | 0.09 | 0.12 | 0.12 | 0.13 | 0.15 |
| Control Delay | 28.3 | 22.6 | 7.8 | 28.2 | 22.5 | 0.7 | 27.2 | 19.2 | 3.5 | 28.7 | 28.5 | 1.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 28.3 | 22.6 | 7.8 | 28.2 | 22.5 | 0.7 | 27.2 | 19.2 | 3.5 | 28.7 | 28.5 | 1.1 |
| Queue Length 50th (ft) | 12 | 82 | 6 | 13 | 82 | 0 | 70 | 15 | 0 | 7 | 9 | 0 |
| Queue Length 95th (ft) | 34 | 143 | 45 | 35 | 142 | 1 | 145 | 36 | 16 | 24 | 28 | 0 |
| Internal Link Dist (ft) | | 1234 | | | 1233 | | | 1070 | | | 873 | |
| Turn Bay Length (ft) | 250 | | 50 | 250 | | 255 | 235 | | 65 | 255 | | 100 |
| Base Capacity (vph) | 565 | 2207 | 1011 | 565 | 2207 | 1011 | 1068 | 2835 | 1256 | 502 | 1430 | 700 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.13 | 0.23 | 0.15 | 0.14 | 0.23 | 0.06 | 0.20 | 0.04 | 0.05 | 0.09 | 0.04 | 0.06 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 7.8 |

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 72 | 100 | 1 | 1 | 1 |
| Future Vol, veh/h | 0 | 72 | 100 | 1 | 1 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | 0 | 100 | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 78 | 109 | 1 | 1 | 1 |

| Major/Minor | Minor2 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | - | 1 | 2 | 0 | - | 0 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 0 | 1083 | 1619 | - | - | - |
| Stage 1 | 0 | - | - | - | - | - |
| Stage 2 | 0 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | - | 1083 | 1619 | - | - | - |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

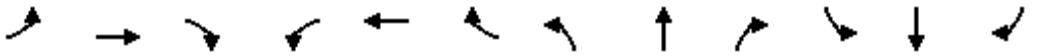
| Approach | EB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 8.6 | 7.3 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---|---|---|---|---|---|
| Capacity (veh/h) | 1619 | - | 1083 | - | - |
| HCM Lane V/C Ratio | 0.067 | - | 0.072 | - | - |
| HCM Control Delay (s) | 7.4 | - | 8.6 | - | - |
| HCM Lane LOS | A | - | A | - | - |
| HCM 95th %tile Q(veh) | 0.2 | - | 0.2 | - | - |

1: Willow Ave & International Ave — Near-Term Wi

HCM 6th Signalized Intersection Summary

12/12/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 46 | 70 | 241 | 15 | 214 | 50 | 462 | 546 | 30 | 73 | 642 | 97 |
| Future Volume (veh/h) | 46 | 70 | 241 | 15 | 214 | 50 | 462 | 546 | 30 | 73 | 642 | 97 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.97 | 1.00 | | 0.97 | 1.00 | | 0.96 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 55 | 84 | 208 | 18 | 258 | 46 | 557 | 658 | 35 | 88 | 773 | 100 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 90 | 416 | 342 | 39 | 362 | 297 | 731 | 1383 | 594 | 115 | 1237 | 373 |
| Arrive On Green | 0.05 | 0.22 | 0.22 | 0.02 | 0.19 | 0.19 | 0.21 | 0.39 | 0.39 | 0.06 | 0.24 | 0.24 |
| Sat Flow, veh/h | 1781 | 1870 | 1538 | 1781 | 1870 | 1534 | 3456 | 3554 | 1527 | 1781 | 5106 | 1541 |
| Grp Volume(v), veh/h | 55 | 84 | 208 | 18 | 258 | 46 | 557 | 658 | 35 | 88 | 773 | 100 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1538 | 1781 | 1870 | 1534 | 1728 | 1777 | 1527 | 1781 | 1702 | 1541 |
| Q Serve(g_s), s | 1.8 | 2.2 | 7.2 | 0.6 | 7.6 | 1.5 | 8.9 | 8.2 | 0.8 | 2.9 | 8.0 | 3.1 |
| Cycle Q Clear(g_c), s | 1.8 | 2.2 | 7.2 | 0.6 | 7.6 | 1.5 | 8.9 | 8.2 | 0.8 | 2.9 | 8.0 | 3.1 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 90 | 416 | 342 | 39 | 362 | 297 | 731 | 1383 | 594 | 115 | 1237 | 373 |
| V/C Ratio(X) | 0.61 | 0.20 | 0.61 | 0.47 | 0.71 | 0.15 | 0.76 | 0.48 | 0.06 | 0.76 | 0.62 | 0.27 |
| Avail Cap(c_a), veh/h | 215 | 705 | 580 | 181 | 670 | 549 | 1290 | 2045 | 879 | 305 | 1907 | 575 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 27.4 | 18.7 | 20.6 | 28.5 | 22.2 | 19.8 | 21.8 | 13.5 | 11.2 | 27.1 | 19.9 | 18.1 |
| Incr Delay (d2), s/veh | 6.6 | 0.2 | 1.8 | 8.5 | 2.6 | 0.2 | 1.7 | 0.3 | 0.0 | 9.9 | 0.5 | 0.4 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.9 | 0.9 | 2.5 | 0.3 | 3.4 | 0.5 | 3.2 | 2.5 | 0.3 | 1.4 | 2.7 | 1.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 34.0 | 18.9 | 22.4 | 37.0 | 24.8 | 20.0 | 23.5 | 13.7 | 11.3 | 37.0 | 20.4 | 18.5 |
| LnGrp LOS | C | B | C | D | C | B | C | B | B | D | C | B |
| Approach Vol, veh/h | | 347 | | | 322 | | | 1250 | | | 961 | |
| Approach Delay, s/veh | | 23.4 | | | 24.8 | | | 18.0 | | | 21.8 | |
| Approach LOS | | C | | | C | | | B | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 7.8 | 27.8 | 5.3 | 18.0 | 16.5 | 19.2 | 7.0 | 16.3 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 10.1 | 33.9 | 6.0 | 22.2 | 22.0 | 22.0 | 7.1 | 21.1 |
| Max Q Clear Time (g_c+I1), s | 4.9 | 10.2 | 2.6 | 9.2 | 10.9 | 10.0 | 3.8 | 9.6 |
| Green Ext Time (p_c), s | 0.1 | 4.1 | 0.0 | 0.9 | 1.5 | 4.0 | 0.0 | 1.2 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 20.7 |
| HCM 6th LOS | C |

1: Willow Ave & International Ave Near-Term Wi

Queues

12/12/2023

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 55 | 84 | 290 | 18 | 258 | 60 | 557 | 658 | 36 | 88 | 773 | 117 |
| v/c Ratio | 0.32 | 0.18 | 0.48 | 0.12 | 0.64 | 0.13 | 0.67 | 0.45 | 0.05 | 0.41 | 0.60 | 0.23 |
| Control Delay | 41.9 | 25.1 | 6.7 | 40.2 | 35.9 | 0.6 | 31.0 | 19.1 | 0.1 | 40.5 | 27.6 | 2.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 41.9 | 25.1 | 6.7 | 40.2 | 35.9 | 0.6 | 31.0 | 19.1 | 0.1 | 40.5 | 27.6 | 2.8 |
| Queue Length 50th (ft) | 26 | 27 | 0 | 8 | 116 | 0 | 128 | 131 | 0 | 40 | 122 | 0 |
| Queue Length 95th (ft) | 63 | 69 | 45 | 28 | 190 | 0 | 183 | 180 | 0 | 87 | 168 | 10 |
| Internal Link Dist (ft) | | 2470 | | | 1342 | | | 2623 | | | 1390 | |
| Turn Bay Length (ft) | 250 | | | | | 25 | 250 | | | 250 | | 205 |
| Base Capacity (vph) | 189 | 646 | 723 | 160 | 591 | 602 | 1136 | 1806 | 831 | 268 | 1683 | 621 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.29 | 0.13 | 0.40 | 0.11 | 0.44 | 0.10 | 0.49 | 0.36 | 0.04 | 0.33 | 0.46 | 0.19 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 4.8 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 5 | 0 | 104 | 0 | 1 | 0 | 330 | 239 | 0 | 0 | 285 | 5 |
| Future Vol, veh/h | 5 | 0 | 104 | 0 | 1 | 0 | 330 | 239 | 0 | 0 | 285 | 5 |
| Conflicting Peds, #/hr | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 6 | 0 | 120 | 0 | 1 | 0 | 379 | 275 | 0 | 0 | 328 | 6 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1375 | 1374 | 341 | 1434 | 1377 | 285 | 339 | 0 | 0 | 280 | 0 | 0 |
| Stage 1 | 336 | 336 | - | 1038 | 1038 | - | - | - | - | - | - | - |
| Stage 2 | 1039 | 1038 | - | 396 | 339 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 123 | 145 | 701 | 112 | 145 | 754 | 1220 | - | - | 1283 | - | - |
| Stage 1 | 678 | 642 | - | 279 | 308 | - | - | - | - | - | - | - |
| Stage 2 | 279 | 308 | - | 629 | 640 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 86 | 91 | 694 | 66 | 91 | 747 | 1214 | - | - | 1277 | - | - |
| Mov Cap-2 Maneuver | 86 | 91 | - | 66 | 91 | - | - | - | - | - | - | - |
| Stage 1 | 426 | 639 | - | 175 | 194 | - | - | - | - | - | - | - |
| Stage 2 | 174 | 194 | - | 518 | 637 | - | - | - | - | - | - | - |

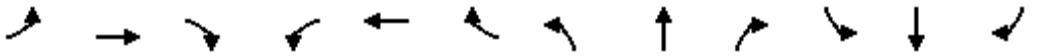
| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s | 14 | 45.1 | 5.4 | 0 |
| HCM LOS | B | E | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 1214 | - | - | 524 | 91 | 1277 | - | - |
| HCM Lane V/C Ratio | 0.312 | - | - | 0.239 | 0.013 | - | - | - |
| HCM Control Delay (s) | 9.3 | 0 | - | 14 | 45.1 | 0 | - | - |
| HCM Lane LOS | A | A | - | B | E | A | - | - |
| HCM 95th %tile Q(veh) | 1.3 | - | - | 0.9 | 0 | 0 | - | - |

3: Willow Ave & Behymer Ave — Near-Term Wi

HCM 6th Signalized Intersection Summary

12/12/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 68 | 145 | 252 | 25 | 159 | 166 | 162 | 1095 | 37 | 65 | 785 | 48 |
| Future Volume (veh/h) | 68 | 145 | 252 | 25 | 159 | 166 | 162 | 1095 | 37 | 65 | 785 | 48 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.95 | 1.00 | | 0.94 | 1.00 | | 0.92 | 1.00 | | 0.90 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 76 | 161 | 196 | 28 | 177 | 134 | 180 | 1217 | 33 | 72 | 872 | 27 |
| Peak Hour Factor | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 106 | 530 | 425 | 55 | 244 | 185 | 225 | 1702 | 486 | 103 | 1354 | 380 |
| Arrive On Green | 0.06 | 0.28 | 0.28 | 0.03 | 0.25 | 0.25 | 0.13 | 0.33 | 0.33 | 0.06 | 0.27 | 0.27 |
| Sat Flow, veh/h | 1781 | 1870 | 1499 | 1781 | 959 | 726 | 1781 | 5106 | 1458 | 1781 | 5106 | 1434 |
| Grp Volume(v), veh/h | 76 | 161 | 196 | 28 | 0 | 311 | 180 | 1217 | 33 | 72 | 872 | 27 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1499 | 1781 | 0 | 1686 | 1781 | 1702 | 1458 | 1781 | 1702 | 1434 |
| Q Serve(g_s), s | 2.5 | 4.1 | 6.5 | 0.9 | 0.0 | 10.2 | 5.9 | 12.6 | 0.9 | 2.4 | 9.2 | 0.9 |
| Cycle Q Clear(g_c), s | 2.5 | 4.1 | 6.5 | 0.9 | 0.0 | 10.2 | 5.9 | 12.6 | 0.9 | 2.4 | 9.2 | 0.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.43 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 106 | 530 | 425 | 55 | 0 | 429 | 225 | 1702 | 486 | 103 | 1354 | 380 |
| V/C Ratio(X) | 0.72 | 0.30 | 0.46 | 0.51 | 0.00 | 0.72 | 0.80 | 0.71 | 0.07 | 0.70 | 0.64 | 0.07 |
| Avail Cap(c_a), veh/h | 174 | 557 | 446 | 174 | 0 | 502 | 295 | 1891 | 540 | 174 | 1545 | 434 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 27.9 | 17.0 | 17.9 | 28.8 | 0.0 | 20.6 | 25.7 | 17.6 | 13.8 | 28.0 | 19.7 | 16.6 |
| Incr Delay (d2), s/veh | 8.6 | 0.3 | 0.8 | 7.0 | 0.0 | 4.3 | 11.1 | 1.2 | 0.1 | 8.2 | 0.8 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.2 | 1.6 | 2.0 | 0.5 | 0.0 | 3.9 | 2.9 | 4.1 | 0.3 | 1.1 | 3.1 | 0.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 36.6 | 17.3 | 18.7 | 35.9 | 0.0 | 24.9 | 36.8 | 18.8 | 13.8 | 36.1 | 20.5 | 16.7 |
| LnGrp LOS | D | B | B | D | A | C | D | B | B | D | C | B |
| Approach Vol, veh/h | | 433 | | | 339 | | | 1430 | | | 971 | |
| Approach Delay, s/veh | | 21.3 | | | 25.8 | | | 21.0 | | | 21.5 | |
| Approach LOS | | C | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 7.5 | 25.1 | 5.9 | 22.0 | 11.6 | 20.9 | 7.6 | 20.3 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 5.9 | 22.4 | 5.9 | 18.0 | 10.0 | 18.3 | 5.9 | 18.0 |
| Max Q Clear Time (g_c+I1), s | 4.4 | 14.6 | 2.9 | 8.5 | 7.9 | 11.2 | 4.5 | 12.2 |
| Green Ext Time (p_c), s | 0.0 | 4.4 | 0.0 | 1.0 | 0.1 | 3.1 | 0.0 | 0.8 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 21.7 |
| HCM 6th LOS | C |

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 76 | 161 | 280 | 28 | 361 | 180 | 1217 | 41 | 72 | 872 | 53 |
| v/c Ratio | 0.45 | 0.29 | 0.43 | 0.17 | 0.78 | 0.67 | 0.61 | 0.06 | 0.43 | 0.66 | 0.10 |
| Control Delay | 40.0 | 20.4 | 5.6 | 32.4 | 32.8 | 42.8 | 19.4 | 0.2 | 38.8 | 24.5 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 40.0 | 20.4 | 5.6 | 32.4 | 32.8 | 42.8 | 19.4 | 0.2 | 38.8 | 24.5 | 0.4 |
| Queue Length 50th (ft) | 32 | 44 | 0 | 12 | 114 | 75 | 169 | 0 | 30 | 122 | 0 |
| Queue Length 95th (ft) | #79 | 105 | 53 | 34 | #237 | #163 | 217 | 0 | #74 | 163 | 0 |
| Internal Link Dist (ft) | | 2660 | | | 5395 | | 1188 | | | 2623 | |
| Turn Bay Length (ft) | 235 | | | 88 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 172 | 644 | 698 | 172 | 546 | 292 | 2006 | 657 | 172 | 1536 | 583 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.44 | 0.25 | 0.40 | 0.16 | 0.66 | 0.62 | 0.61 | 0.06 | 0.42 | 0.57 | 0.09 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

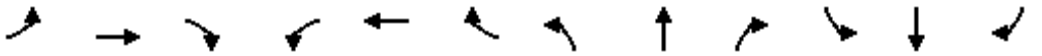
| Intersection | |
|---|---|
| Intersection Delay, s/veh | 106.9 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 3 | 162 | 72 | 18 | 222 | 316 | 111 | 271 | 13 | 139 | 255 | 3 |
| Future Vol, veh/h | 3 | 162 | 72 | 18 | 222 | 316 | 111 | 271 | 13 | 139 | 255 | 3 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 167 | 74 | 19 | 229 | 326 | 114 | 279 | 13 | 143 | 263 | 3 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 29.3 | 189.4 | 71.5 | 73 |
| HCM LOS | D | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 28% | 1% | 3% | 35% |
| Vol Thru, % | 69% | 68% | 40% | 64% |
| Vol Right, % | 3% | 30% | 57% | 1% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 395 | 237 | 556 | 397 |
| LT Vol | 111 | 3 | 18 | 139 |
| Through Vol | 271 | 162 | 222 | 255 |
| RT Vol | 13 | 72 | 316 | 3 |
| Lane Flow Rate | 407 | 244 | 573 | 409 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.971 | 0.627 | 1.333 | 0.977 |
| Departure Headway (Hd) | 9.669 | 10.362 | 8.374 | 9.684 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 379 | 352 | 441 | 377 |
| Service Time | 7.669 | 8.362 | 6.374 | 7.684 |
| HCM Lane V/C Ratio | 1.074 | 0.693 | 1.299 | 1.085 |
| HCM Control Delay | 71.5 | 29.3 | 189.4 | 73 |
| HCM Lane LOS | F | D | F | F |
| HCM 95th-tile Q | 11 | 4 | 26.1 | 11.1 |

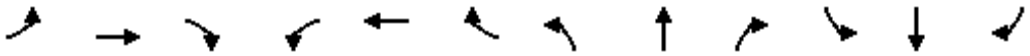
5: Minnewawa Ave & Shepherd Ave Near-Term Wi
HCM 6th Signalized Intersection Summary
12/12/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 93 | 643 | 241 | 228 | 881 | 186 | 191 | 265 | 86 | 199 | 365 | 141 |
| Future Volume (veh/h) | 93 | 643 | 241 | 228 | 881 | 186 | 191 | 265 | 86 | 199 | 365 | 141 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.97 | 1.00 | | 0.97 | 1.00 | | 0.97 | 1.00 | | 0.96 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 99 | 684 | 239 | 243 | 937 | 114 | 203 | 282 | 82 | 212 | 388 | 137 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 105 | 1309 | 566 | 276 | 869 | 715 | 201 | 347 | 286 | 230 | 377 | 307 |
| Arrive On Green | 0.06 | 0.37 | 0.37 | 0.16 | 0.46 | 0.46 | 0.11 | 0.19 | 0.19 | 0.13 | 0.20 | 0.20 |
| Sat Flow, veh/h | 1781 | 3554 | 1535 | 1781 | 1870 | 1539 | 1781 | 1870 | 1544 | 1781 | 1870 | 1520 |
| Grp Volume(v), veh/h | 99 | 684 | 239 | 243 | 937 | 114 | 203 | 282 | 82 | 212 | 388 | 137 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1777 | 1535 | 1781 | 1870 | 1539 | 1781 | 1870 | 1544 | 1781 | 1870 | 1520 |
| Q Serve(g_s), s | 6.1 | 16.6 | 12.8 | 14.7 | 51.1 | 4.7 | 12.4 | 15.9 | 5.0 | 12.9 | 22.2 | 8.7 |
| Cycle Q Clear(g_c), s | 6.1 | 16.6 | 12.8 | 14.7 | 51.1 | 4.7 | 12.4 | 15.9 | 5.0 | 12.9 | 22.2 | 8.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 105 | 1309 | 566 | 276 | 869 | 715 | 201 | 347 | 286 | 230 | 377 | 307 |
| V/C Ratio(X) | 0.94 | 0.52 | 0.42 | 0.88 | 1.08 | 0.16 | 1.01 | 0.81 | 0.29 | 0.92 | 1.03 | 0.45 |
| Avail Cap(c_a), veh/h | 105 | 1309 | 566 | 398 | 869 | 715 | 201 | 347 | 286 | 230 | 377 | 307 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 51.6 | 27.2 | 26.0 | 45.5 | 29.5 | 17.0 | 48.8 | 43.0 | 38.5 | 47.4 | 43.9 | 38.5 |
| Incr Delay (d2), s/veh | 68.7 | 0.4 | 0.5 | 14.5 | 53.9 | 0.1 | 66.4 | 13.7 | 0.5 | 38.6 | 53.7 | 1.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 4.6 | 6.6 | 4.5 | 7.3 | 33.4 | 1.6 | 9.0 | 8.3 | 1.9 | 8.0 | 15.4 | 3.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 120.3 | 27.5 | 26.5 | 60.0 | 83.4 | 17.1 | 115.2 | 56.7 | 39.1 | 86.0 | 97.6 | 39.5 |
| LnGrp LOS | F | C | C | E | F | B | F | E | D | F | F | D |
| Approach Vol, veh/h | | 1022 | | | 1294 | | | 567 | | | 737 | |
| Approach Delay, s/veh | | 36.3 | | | 73.1 | | | 75.1 | | | 83.4 | |
| Approach LOS | | D | | | E | | | E | | | F | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 18.2 | 25.3 | 21.1 | 45.4 | 16.4 | 27.1 | 10.5 | 56.0 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 14.2 | 20.4 | 24.6 | 33.0 | 12.4 | 22.2 | 6.5 | 51.1 |
| Max Q Clear Time (g_c+I1), s | 14.9 | 17.9 | 16.7 | 18.6 | 14.4 | 24.2 | 8.1 | 53.1 |
| Green Ext Time (p_c), s | 0.0 | 0.4 | 0.4 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 65.1 |
| HCM 6th LOS | E |



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 99 | 684 | 256 | 243 | 937 | 198 | 203 | 282 | 91 | 212 | 388 | 150 |
| v/c Ratio | 0.95 | 0.56 | 0.42 | 0.77 | 1.08 | 0.26 | 1.02 | 0.82 | 0.23 | 0.93 | 1.03 | 0.36 |
| Control Delay | 128.9 | 32.3 | 15.6 | 58.6 | 85.4 | 8.4 | 118.2 | 62.9 | 3.2 | 92.3 | 99.4 | 10.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 128.9 | 32.3 | 15.6 | 58.6 | 85.4 | 8.4 | 118.2 | 62.9 | 3.2 | 92.3 | 99.4 | 10.5 |
| Queue Length 50th (ft) | 71 | 206 | 59 | 164 | ~743 | 32 | ~149 | 193 | 0 | 150 | ~295 | 7 |
| Queue Length 95th (ft) | #179 | 284 | 141 | 241 | #987 | 77 | #299 | #329 | 15 | #294 | #483 | 62 |
| Internal Link Dist (ft) | | 2560 | | | 1263 | | | 2631 | | | 2555 | |
| Turn Bay Length (ft) | 250 | | 45 | 250 | | 200 | 250 | | | 255 | | 25 |
| Base Capacity (vph) | 104 | 1218 | 613 | 395 | 865 | 769 | 199 | 345 | 398 | 228 | 375 | 415 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.95 | 0.56 | 0.42 | 0.62 | 1.08 | 0.26 | 1.02 | 0.82 | 0.23 | 0.93 | 1.03 | 0.36 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.5 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 29 | 588 | 14 | 5 | 796 | 23 | 0 | 0 | 14 | 0 | 0 | 92 |
| Future Vol, veh/h | 29 | 588 | 14 | 5 | 796 | 23 | 0 | 0 | 14 | 0 | 0 | 92 |
| Conflicting Peds, #/hr | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 265 | - | - | 265 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 31 | 619 | 15 | 5 | 838 | 24 | 0 | 0 | 15 | 0 | 0 | 97 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 867 | 0 | 0 | 639 | 0 | 0 | - | - | 327 | - | - | 848 |
| Stage 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Critical Hdwy | 4.13 | - | - | 4.13 | - | - | - | - | 6.93 | - | - | 6.23 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Follow-up Hdwy | 2.219 | - | - | 2.219 | - | - | - | - | 3.319 | - | - | 3.319 |
| Pot Cap-1 Maneuver | 775 | - | - | 943 | - | - | 0 | 0 | 669 | 0 | 0 | 360 |
| Stage 1 | - | - | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Stage 2 | - | - | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 771 | - | - | 939 | - | - | - | - | 663 | - | - | 357 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s | 0.5 | 0.1 | 10.6 | 18.8 |
| HCM LOS | | | B | C |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 663 | 771 | - | - | 939 | - | - | 357 |
| HCM Lane V/C Ratio | 0.022 | 0.04 | - | - | 0.006 | - | - | 0.271 |
| HCM Control Delay (s) | 10.6 | 9.9 | - | - | 8.9 | - | - | 18.8 |
| HCM Lane LOS | B | A | - | - | A | - | - | C |
| HCM 95th %tile Q(veh) | 0.1 | 0.1 | - | - | 0 | - | - | 1.1 |

7: Clovis Ave & Shepherd Ave Near-Term Wi

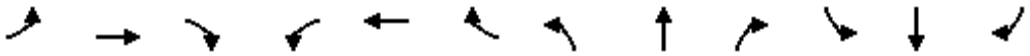
HCM 6th Signalized Intersection Summary

12/12/2023

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 117 | 611 | 166 | 202 | 853 | 68 | 185 | 155 | 81 | 161 | 329 | 173 |
| Future Volume (veh/h) | 117 | 611 | 166 | 202 | 853 | 68 | 185 | 155 | 81 | 161 | 329 | 173 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 131 | 687 | 165 | 227 | 958 | 75 | 208 | 174 | 84 | 181 | 370 | 169 |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 228 | 1175 | 514 | 333 | 1283 | 561 | 259 | 842 | 367 | 278 | 611 | 265 |
| Arrive On Green | 0.07 | 0.33 | 0.33 | 0.10 | 0.36 | 0.36 | 0.15 | 0.24 | 0.24 | 0.08 | 0.17 | 0.17 |
| Sat Flow, veh/h | 3456 | 3554 | 1554 | 3456 | 3554 | 1555 | 1781 | 3554 | 1549 | 3456 | 3554 | 1542 |
| Grp Volume(v), veh/h | 131 | 687 | 165 | 227 | 958 | 75 | 208 | 174 | 84 | 181 | 370 | 169 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1554 | 1728 | 1777 | 1555 | 1781 | 1777 | 1549 | 1728 | 1777 | 1542 |
| Q Serve(g_s), s | 2.6 | 11.2 | 5.5 | 4.4 | 16.4 | 2.3 | 7.9 | 2.7 | 3.0 | 3.5 | 6.7 | 7.1 |
| Cycle Q Clear(g_c), s | 2.6 | 11.2 | 5.5 | 4.4 | 16.4 | 2.3 | 7.9 | 2.7 | 3.0 | 3.5 | 6.7 | 7.1 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 228 | 1175 | 514 | 333 | 1283 | 561 | 259 | 842 | 367 | 278 | 611 | 265 |
| V/C Ratio(X) | 0.57 | 0.58 | 0.32 | 0.68 | 0.75 | 0.13 | 0.80 | 0.21 | 0.23 | 0.65 | 0.61 | 0.64 |
| Avail Cap(c_a), veh/h | 446 | 1994 | 872 | 645 | 2198 | 962 | 614 | 1785 | 778 | 551 | 1127 | 489 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 31.6 | 19.3 | 17.5 | 30.4 | 19.5 | 14.9 | 28.8 | 21.3 | 21.5 | 31.1 | 26.7 | 26.8 |
| Incr Delay (d2), s/veh | 2.3 | 0.5 | 0.4 | 2.5 | 0.9 | 0.1 | 5.7 | 0.1 | 0.3 | 2.6 | 1.0 | 2.5 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.0 | 4.0 | 1.7 | 1.8 | 5.8 | 0.7 | 3.5 | 1.0 | 1.0 | 1.5 | 2.7 | 2.5 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 33.8 | 19.8 | 17.8 | 32.9 | 20.4 | 15.1 | 34.5 | 21.5 | 21.8 | 33.6 | 27.6 | 29.4 |
| LnGrp LOS | C | B | B | C | C | B | C | C | C | C | C | C |
| Approach Vol, veh/h | | 983 | | | 1260 | | | 466 | | | 720 | |
| Approach Delay, s/veh | | 21.3 | | | 22.3 | | | 27.3 | | | 29.5 | |
| Approach LOS | | C | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 9.6 | 21.4 | 10.7 | 27.9 | 14.1 | 16.9 | 8.6 | 30.1 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 11.1 | 35.0 | 13.0 | 39.1 | 24.0 | 22.1 | 9.0 | 43.1 |
| Max Q Clear Time (g_c+I1), s | 5.5 | 5.0 | 6.4 | 13.2 | 9.9 | 9.1 | 4.6 | 18.4 |
| Green Ext Time (p_c), s | 0.2 | 1.3 | 0.4 | 4.9 | 0.5 | 2.3 | 0.1 | 6.7 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 24.2 |
| HCM 6th LOS | C |



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 131 | 687 | 187 | 227 | 958 | 76 | 208 | 174 | 91 | 181 | 370 | 194 |
| v/c Ratio | 0.41 | 0.61 | 0.32 | 0.54 | 0.78 | 0.12 | 0.65 | 0.20 | 0.20 | 0.49 | 0.60 | 0.46 |
| Control Delay | 48.1 | 29.7 | 10.7 | 46.2 | 32.1 | 0.8 | 47.5 | 28.9 | 7.4 | 47.0 | 41.2 | 9.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 48.1 | 29.7 | 10.7 | 46.2 | 32.1 | 0.8 | 47.5 | 28.9 | 7.4 | 47.0 | 41.2 | 9.9 |
| Queue Length 50th (ft) | 37 | 175 | 23 | 64 | 257 | 0 | 114 | 42 | 0 | 51 | 105 | 2 |
| Queue Length 95th (ft) | 80 | 278 | 82 | 124 | 392 | 4 | 219 | 77 | 35 | 104 | 181 | 63 |
| Internal Link Dist (ft) | | 1234 | | | 1233 | | | 1070 | | | 873 | |
| Turn Bay Length (ft) | 250 | | 50 | 250 | | 255 | 235 | | 65 | 255 | | 100 |
| Base Capacity (vph) | 355 | 1589 | 765 | 512 | 1751 | 830 | 487 | 1422 | 676 | 437 | 898 | 533 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.37 | 0.43 | 0.24 | 0.44 | 0.55 | 0.09 | 0.43 | 0.12 | 0.13 | 0.41 | 0.41 | 0.36 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 2.3 |

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 88 | 30 | 119 | 229 | 1 |
| Future Vol, veh/h | 0 | 88 | 30 | 119 | 229 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | 0 | 100 | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 96 | 33 | 129 | 249 | 1 |

| Major/Minor | Minor2 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | - | 125 | 250 | 0 | - | 0 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 0 | 902 | 1313 | - | - | - |
| Stage 1 | 0 | - | - | - | - | - |
| Stage 2 | 0 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | - | 902 | 1313 | - | - | - |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 9.5 | 1.6 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---|---|---|---|---|---|
| Capacity (veh/h) | 1313 | - | 902 | - | - |
| HCM Lane V/C Ratio | 0.025 | - | 0.106 | - | - |
| HCM Control Delay (s) | 7.8 | - | 9.5 | - | - |
| HCM Lane LOS | A | - | A | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | 0.4 | - | - |

1: Willow Ave & International Ave — Near-Term Wi

HCM 6th Signalized Intersection Summary

12/12/2023

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 18 | 75 | 228 | 28 | 98 | 52 | 226 | 667 | 30 | 67 | 624 | 37 |
| Future Volume (veh/h) | 18 | 75 | 228 | 28 | 98 | 52 | 226 | 667 | 30 | 67 | 624 | 37 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.96 | 1.00 | | 0.96 | 1.00 | | 0.96 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 20 | 85 | 184 | 32 | 111 | 40 | 257 | 758 | 28 | 76 | 709 | 36 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 44 | 348 | 283 | 65 | 370 | 302 | 416 | 1177 | 502 | 119 | 1420 | 428 |
| Arrive On Green | 0.02 | 0.19 | 0.19 | 0.04 | 0.20 | 0.20 | 0.12 | 0.33 | 0.33 | 0.07 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1781 | 1870 | 1525 | 1781 | 1870 | 1528 | 3456 | 3554 | 1515 | 1781 | 5106 | 1539 |
| Grp Volume(v), veh/h | 20 | 85 | 184 | 32 | 111 | 40 | 257 | 758 | 28 | 76 | 709 | 36 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1525 | 1781 | 1870 | 1528 | 1728 | 1777 | 1515 | 1781 | 1702 | 1539 |
| Q Serve(g_s), s | 0.5 | 1.8 | 5.2 | 0.8 | 2.4 | 1.0 | 3.3 | 8.5 | 0.6 | 1.9 | 5.5 | 0.8 |
| Cycle Q Clear(g_c), s | 0.5 | 1.8 | 5.2 | 0.8 | 2.4 | 1.0 | 3.3 | 8.5 | 0.6 | 1.9 | 5.5 | 0.8 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 44 | 348 | 283 | 65 | 370 | 302 | 416 | 1177 | 502 | 119 | 1420 | 428 |
| V/C Ratio(X) | 0.46 | 0.24 | 0.65 | 0.49 | 0.30 | 0.13 | 0.62 | 0.64 | 0.06 | 0.64 | 0.50 | 0.08 |
| Avail Cap(c_a), veh/h | 266 | 802 | 654 | 266 | 802 | 655 | 1032 | 2584 | 1102 | 418 | 3386 | 1021 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 22.6 | 16.3 | 17.7 | 22.2 | 16.0 | 15.5 | 19.6 | 13.3 | 10.7 | 21.3 | 14.2 | 12.5 |
| Incr Delay (d2), s/veh | 7.4 | 0.4 | 2.5 | 5.7 | 0.5 | 0.2 | 1.5 | 0.6 | 0.0 | 5.5 | 0.3 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 0.7 | 1.8 | 0.4 | 0.9 | 0.3 | 1.2 | 2.5 | 0.2 | 0.8 | 1.6 | 0.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 29.9 | 16.6 | 20.2 | 27.9 | 16.5 | 15.7 | 21.1 | 13.9 | 10.7 | 26.8 | 14.5 | 12.6 |
| LnGrp LOS | C | B | C | C | B | B | C | B | B | C | B | B |
| Approach Vol, veh/h | | 289 | | | 183 | | | 1043 | | | 821 | |
| Approach Delay, s/veh | | 19.8 | | | 18.3 | | | 15.6 | | | 15.5 | |
| Approach LOS | | B | | | B | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 7.1 | 20.4 | 5.7 | 13.6 | 9.6 | 17.9 | 5.1 | 14.2 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 11.0 | 34.1 | 7.0 | 20.1 | 14.0 | 31.1 | 7.0 | 20.1 |
| Max Q Clear Time (g_c+I1), s | 3.9 | 10.5 | 2.8 | 7.2 | 5.3 | 7.5 | 2.5 | 4.4 |
| Green Ext Time (p_c), s | 0.1 | 4.9 | 0.0 | 0.9 | 0.5 | 4.5 | 0.0 | 0.6 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 16.3 |
| HCM 6th LOS | B |

1: Willow Ave & International Ave Near-Term Wi

Queues

12/12/2023

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 20 | 85 | 259 | 32 | 111 | 59 | 257 | 758 | 34 | 76 | 709 | 42 |
| v/c Ratio | 0.09 | 0.27 | 0.55 | 0.15 | 0.30 | 0.15 | 0.40 | 0.48 | 0.05 | 0.28 | 0.46 | 0.08 |
| Control Delay | 30.2 | 26.6 | 9.2 | 30.4 | 24.0 | 1.3 | 24.6 | 15.2 | 0.1 | 28.5 | 17.2 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 30.2 | 26.6 | 9.2 | 30.4 | 24.0 | 1.3 | 24.6 | 15.2 | 0.1 | 28.5 | 17.2 | 0.3 |
| Queue Length 50th (ft) | 5 | 22 | 0 | 9 | 29 | 0 | 34 | 85 | 0 | 20 | 55 | 0 |
| Queue Length 95th (ft) | 29 | 74 | 56 | 40 | 92 | 3 | 91 | 205 | 0 | 71 | 128 | 0 |
| Internal Link Dist (ft) | | 2470 | | | 1342 | | | 2623 | | | 1390 | |
| Turn Bay Length (ft) | 250 | | | | | 25 | 250 | | | 250 | | 205 |
| Base Capacity (vph) | 248 | 752 | 771 | 248 | 755 | 691 | 965 | 2424 | 1071 | 391 | 3176 | 1005 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.08 | 0.11 | 0.34 | 0.13 | 0.15 | 0.09 | 0.27 | 0.31 | 0.03 | 0.19 | 0.22 | 0.04 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 3.2 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 8 | 0 | 104 | 0 | 2 | 0 | 157 | 312 | 1 | 0 | 313 | 3 |
| Future Vol, veh/h | 8 | 0 | 104 | 0 | 2 | 0 | 157 | 312 | 1 | 0 | 313 | 3 |
| Conflicting Peds, #/hr | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 9 | 0 | 116 | 0 | 2 | 0 | 174 | 347 | 1 | 0 | 348 | 3 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1057 | 1056 | 360 | 1114 | 1057 | 358 | 356 | 0 | 0 | 353 | 0 | 0 |
| Stage 1 | 355 | 355 | - | 701 | 701 | - | - | - | - | - | - | - |
| Stage 2 | 702 | 701 | - | 413 | 356 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 203 | 225 | 684 | 185 | 225 | 686 | 1203 | - | - | 1206 | - | - |
| Stage 1 | 662 | 630 | - | 429 | 441 | - | - | - | - | - | - | - |
| Stage 2 | 429 | 441 | - | 616 | 629 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 172 | 183 | 678 | 131 | 183 | 679 | 1197 | - | - | 1200 | - | - |
| Mov Cap-2 Maneuver | 172 | 183 | - | 131 | 183 | - | - | - | - | - | - | - |
| Stage 1 | 540 | 627 | - | 350 | 360 | - | - | - | - | - | - | - |
| Stage 2 | 348 | 360 | - | 509 | 626 | - | - | - | - | - | - | - |

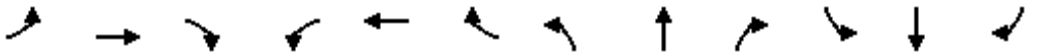
| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s | 13.3 | 24.9 | 2.8 | 0 |
| HCM LOS | B | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 1197 | - | - | 560 | 183 | 1200 | - | - |
| HCM Lane V/C Ratio | 0.146 | - | - | 0.222 | 0.012 | - | - | - |
| HCM Control Delay (s) | 8.5 | 0 | - | 13.3 | 24.9 | 0 | - | - |
| HCM Lane LOS | A | A | - | B | C | A | - | - |
| HCM 95th %tile Q(veh) | 0.5 | - | - | 0.8 | 0 | 0 | - | - |

3: Willow Ave & Behymer Ave — Near-Term Wi

HCM 6th Signalized Intersection Summary

12/12/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 19 | 114 | 161 | 35 | 157 | 93 | 187 | 907 | 44 | 143 | 896 | 24 |
| Future Volume (veh/h) | 19 | 114 | 161 | 35 | 157 | 93 | 187 | 907 | 44 | 143 | 896 | 24 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.97 | 1.00 | | 0.97 | 1.00 | | 0.96 | 1.00 | | 0.96 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 22 | 131 | 156 | 40 | 180 | 84 | 215 | 1043 | 45 | 164 | 1030 | 11 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 46 | 354 | 291 | 75 | 245 | 114 | 267 | 1622 | 484 | 209 | 1457 | 434 |
| Arrive On Green | 0.03 | 0.19 | 0.19 | 0.04 | 0.21 | 0.21 | 0.15 | 0.32 | 0.32 | 0.12 | 0.29 | 0.29 |
| Sat Flow, veh/h | 1781 | 1870 | 1535 | 1781 | 1193 | 557 | 1781 | 5106 | 1523 | 1781 | 5106 | 1519 |
| Grp Volume(v), veh/h | 22 | 131 | 156 | 40 | 0 | 264 | 215 | 1043 | 45 | 164 | 1030 | 11 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1535 | 1781 | 0 | 1750 | 1781 | 1702 | 1523 | 1781 | 1702 | 1519 |
| Q Serve(g_s), s | 0.6 | 3.3 | 4.9 | 1.2 | 0.0 | 7.5 | 6.2 | 9.3 | 1.1 | 4.8 | 9.6 | 0.3 |
| Cycle Q Clear(g_c), s | 0.6 | 3.3 | 4.9 | 1.2 | 0.0 | 7.5 | 6.2 | 9.3 | 1.1 | 4.8 | 9.6 | 0.3 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.32 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 46 | 354 | 291 | 75 | 0 | 359 | 267 | 1622 | 484 | 209 | 1457 | 434 |
| V/C Ratio(X) | 0.47 | 0.37 | 0.54 | 0.54 | 0.00 | 0.74 | 0.81 | 0.64 | 0.09 | 0.78 | 0.71 | 0.03 |
| Avail Cap(c_a), veh/h | 197 | 631 | 518 | 197 | 0 | 591 | 334 | 1800 | 537 | 317 | 1752 | 521 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 25.6 | 18.8 | 19.5 | 25.0 | 0.0 | 19.8 | 21.9 | 15.6 | 12.8 | 22.9 | 17.1 | 13.7 |
| Incr Delay (d2), s/veh | 7.3 | 0.6 | 1.5 | 5.8 | 0.0 | 2.9 | 11.0 | 0.7 | 0.1 | 7.0 | 1.0 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 1.3 | 1.6 | 0.6 | 0.0 | 2.8 | 3.0 | 2.9 | 0.3 | 2.1 | 3.1 | 0.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 32.9 | 19.5 | 21.1 | 30.9 | 0.0 | 22.8 | 32.9 | 16.3 | 12.9 | 29.9 | 18.1 | 13.7 |
| LnGrp LOS | C | B | C | C | A | C | C | B | B | C | B | B |
| Approach Vol, veh/h | | 309 | | | 304 | | | 1303 | | | 1205 | |
| Approach Delay, s/veh | | 21.2 | | | 23.9 | | | 18.9 | | | 19.7 | |
| Approach LOS | | C | | | C | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 10.3 | 21.8 | 6.2 | 15.0 | 12.0 | 20.1 | 5.4 | 15.8 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 9.5 | 18.8 | 5.9 | 18.0 | 10.0 | 18.3 | 5.9 | 18.0 |
| Max Q Clear Time (g_c+I1), s | 6.8 | 11.3 | 3.2 | 6.9 | 8.2 | 11.6 | 2.6 | 9.5 |
| Green Ext Time (p_c), s | 0.1 | 3.8 | 0.0 | 0.9 | 0.1 | 3.4 | 0.0 | 0.9 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 19.9 |
| HCM 6th LOS | B |

3: Willow Ave & Behymer Ave Near-Term Wi

Queues

12/12/2023



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 22 | 131 | 185 | 40 | 287 | 215 | 1043 | 51 | 164 | 1030 | 28 |
| v/c Ratio | 0.12 | 0.31 | 0.37 | 0.22 | 0.67 | 0.70 | 0.66 | 0.09 | 0.59 | 0.69 | 0.05 |
| Control Delay | 30.1 | 22.0 | 6.3 | 31.3 | 26.8 | 41.1 | 21.3 | 0.3 | 36.5 | 22.3 | 0.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 30.1 | 22.0 | 6.3 | 31.3 | 26.8 | 41.1 | 21.3 | 0.3 | 36.5 | 22.3 | 0.2 |
| Queue Length 50th (ft) | 7 | 35 | 0 | 12 | 72 | 67 | 101 | 0 | 50 | 101 | 0 |
| Queue Length 95th (ft) | 28 | 84 | 40 | 43 | 160 | #194 | 188 | 0 | #141 | 187 | 0 |
| Internal Link Dist (ft) | | 2660 | | | 5395 | | 1188 | | | 2623 | |
| Turn Bay Length (ft) | 235 | | | 88 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 187 | 602 | 623 | 187 | 591 | 318 | 1718 | 613 | 302 | 1672 | 601 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.12 | 0.22 | 0.30 | 0.21 | 0.49 | 0.68 | 0.61 | 0.08 | 0.54 | 0.62 | 0.05 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

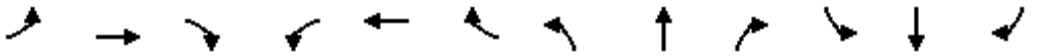
| Intersection | |
|---|---|
| Intersection Delay, s/veh | 127.5 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 3 | 213 | 60 | 16 | 193 | 204 | 74 | 256 | 26 | 186 | 255 | 6 |
| Future Vol, veh/h | 3 | 213 | 60 | 16 | 193 | 204 | 74 | 256 | 26 | 186 | 255 | 6 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 245 | 69 | 18 | 222 | 234 | 85 | 294 | 30 | 214 | 293 | 7 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 52 | 135 | 95.8 | 192.3 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 21% | 1% | 4% | 42% |
| Vol Thru, % | 72% | 77% | 47% | 57% |
| Vol Right, % | 7% | 22% | 49% | 1% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 356 | 276 | 413 | 447 |
| LT Vol | 74 | 3 | 16 | 186 |
| Through Vol | 256 | 213 | 193 | 255 |
| RT Vol | 26 | 60 | 204 | 6 |
| Lane Flow Rate | 409 | 317 | 475 | 514 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 1.046 | 0.835 | 1.175 | 1.324 |
| Departure Headway (Hd) | 10.702 | 11.239 | 9.986 | 10.047 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 344 | 324 | 366 | 365 |
| Service Time | 8.702 | 9.239 | 7.986 | 8.047 |
| HCM Lane V/C Ratio | 1.189 | 0.978 | 1.298 | 1.408 |
| HCM Control Delay | 95.8 | 52 | 135 | 192.3 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 12.5 | 7.2 | 17.1 | 22.4 |

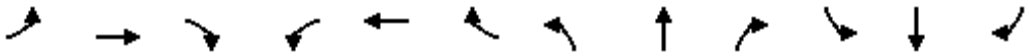
5: Minnewawa Ave & Shepherd Ave Near-Term Wi
HCM 6th Signalized Intersection Summary
12/12/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 166 | 936 | 153 | 155 | 826 | 201 | 195 | 515 | 182 | 153 | 363 | 122 |
| Future Volume (veh/h) | 166 | 936 | 153 | 155 | 826 | 201 | 195 | 515 | 182 | 153 | 363 | 122 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.97 | 1.00 | | 0.97 | 1.00 | | 0.98 | 1.00 | | 0.96 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 189 | 1064 | 162 | 176 | 939 | 166 | 222 | 585 | 201 | 174 | 412 | 131 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 165 | 1406 | 605 | 200 | 776 | 636 | 225 | 522 | 432 | 153 | 446 | 361 |
| Arrive On Green | 0.09 | 0.40 | 0.40 | 0.11 | 0.41 | 0.41 | 0.13 | 0.28 | 0.28 | 0.09 | 0.24 | 0.24 |
| Sat Flow, veh/h | 1781 | 3554 | 1530 | 1781 | 1870 | 1531 | 1781 | 1870 | 1546 | 1781 | 1870 | 1515 |
| Grp Volume(v), veh/h | 189 | 1064 | 162 | 176 | 939 | 166 | 222 | 585 | 201 | 174 | 412 | 131 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1777 | 1530 | 1781 | 1870 | 1531 | 1781 | 1870 | 1546 | 1781 | 1870 | 1515 |
| Q Serve(g_s), s | 13.0 | 36.2 | 10.0 | 13.6 | 58.1 | 10.0 | 17.4 | 39.1 | 15.1 | 12.0 | 30.1 | 10.1 |
| Cycle Q Clear(g_c), s | 13.0 | 36.2 | 10.0 | 13.6 | 58.1 | 10.0 | 17.4 | 39.1 | 15.1 | 12.0 | 30.1 | 10.1 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 165 | 1406 | 605 | 200 | 776 | 636 | 225 | 522 | 432 | 153 | 446 | 361 |
| V/C Ratio(X) | 1.14 | 0.76 | 0.27 | 0.88 | 1.21 | 0.26 | 0.99 | 1.12 | 0.47 | 1.14 | 0.92 | 0.36 |
| Avail Cap(c_a), veh/h | 165 | 1406 | 605 | 230 | 776 | 636 | 225 | 522 | 432 | 153 | 446 | 361 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 63.5 | 36.5 | 28.6 | 61.2 | 41.0 | 26.9 | 61.0 | 50.5 | 41.8 | 64.0 | 52.0 | 44.4 |
| Incr Delay (d2), s/veh | 113.5 | 2.4 | 0.2 | 27.6 | 106.3 | 0.2 | 55.8 | 76.6 | 0.8 | 115.3 | 24.8 | 0.6 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 11.0 | 15.5 | 3.6 | 7.5 | 48.1 | 3.6 | 11.1 | 28.7 | 5.7 | 10.2 | 16.7 | 3.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 177.0 | 38.9 | 28.8 | 88.8 | 147.2 | 27.1 | 116.8 | 127.1 | 42.6 | 179.3 | 76.9 | 45.0 |
| LnGrp LOS | F | D | C | F | F | C | F | F | D | F | E | D |
| Approach Vol, veh/h | | 1415 | | | 1281 | | | 1008 | | | 717 | |
| Approach Delay, s/veh | | 56.2 | | | 123.6 | | | 108.0 | | | 95.9 | |
| Approach LOS | | E | | | F | | | F | | | F | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 16.0 | 44.0 | 19.7 | 60.3 | 21.7 | 38.3 | 17.0 | 63.0 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 12.0 | 39.1 | 18.1 | 53.0 | 17.7 | 33.4 | 13.0 | 58.1 |
| Max Q Clear Time (g_c+I1), s | 14.0 | 41.1 | 15.6 | 38.2 | 19.4 | 32.1 | 15.0 | 60.1 |
| Green Ext Time (p_c), s | 0.0 | 0.0 | 0.1 | 6.4 | 0.0 | 0.4 | 0.0 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 94.0 |
| HCM 6th LOS | F |



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 189 | 1064 | 174 | 176 | 939 | 228 | 222 | 585 | 207 | 174 | 413 | 139 |
| v/c Ratio | 1.15 | 0.78 | 0.26 | 0.83 | 1.21 | 0.33 | 1.00 | 1.12 | 0.39 | 1.15 | 0.93 | 0.30 |
| Control Delay | 171.3 | 42.7 | 8.5 | 89.1 | 144.8 | 15.5 | 119.4 | 124.2 | 16.2 | 174.5 | 80.5 | 8.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 171.3 | 42.7 | 8.5 | 89.1 | 144.8 | 15.5 | 119.4 | 124.2 | 16.2 | 174.5 | 80.5 | 8.3 |
| Queue Length 50th (ft) | ~202 | 451 | 20 | 157 | ~1044 | 69 | 205 | ~614 | 47 | ~185 | 371 | 0 |
| Queue Length 95th (ft) | #351 | 521 | 68 | #262 | #1257 | 130 | #363 | #818 | 114 | #329 | #549 | 51 |
| Internal Link Dist (ft) | | 2560 | | | 1263 | | | 2631 | | | 2555 | |
| Turn Bay Length (ft) | 250 | | 45 | 250 | | 200 | 250 | | | 255 | | 25 |
| Base Capacity (vph) | 164 | 1370 | 669 | 228 | 773 | 689 | 223 | 520 | 528 | 151 | 444 | 463 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 1.15 | 0.78 | 0.26 | 0.77 | 1.21 | 0.33 | 1.00 | 1.13 | 0.39 | 1.15 | 0.93 | 0.30 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Intersection | |
|---|---|
| Int Delay, s/veh | 1 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 61 | 641 | 17 | 10 | 639 | 51 | 0 | 0 | 11 | 0 | 0 | 48 |
| Future Vol, veh/h | 61 | 641 | 17 | 10 | 639 | 51 | 0 | 0 | 11 | 0 | 0 | 48 |
| Conflicting Peds, #/hr | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 265 | - | - | 265 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 68 | 712 | 19 | 11 | 710 | 57 | 0 | 0 | 12 | 0 | 0 | 53 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 772 | 0 | 0 | 736 | 0 | 0 | - | - | 376 | - | - | 720 |
| Stage 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Critical Hdwy | 4.13 | - | - | 4.13 | - | - | - | - | 6.93 | - | - | 6.23 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Follow-up Hdwy | 2.219 | - | - | 2.219 | - | - | - | - | 3.319 | - | - | 3.319 |
| Pot Cap-1 Maneuver | 841 | - | - | 867 | - | - | 0 | 0 | 622 | 0 | 0 | 427 |
| Stage 1 | - | - | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Stage 2 | - | - | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 837 | - | - | 863 | - | - | - | - | 616 | - | - | 423 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s | 0.8 | 0.1 | 11 | 14.7 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 616 | 837 | - | - | 863 | - | - | 423 |
| HCM Lane V/C Ratio | 0.02 | 0.081 | - | - | 0.013 | - | - | 0.126 |
| HCM Control Delay (s) | 11 | 9.7 | - | - | 9.2 | - | - | 14.7 |
| HCM Lane LOS | B | A | - | - | A | - | - | B |
| HCM 95th %tile Q(veh) | 0.1 | 0.3 | - | - | 0 | - | - | 0.4 |

7: Clovis Ave & Shepherd Ave Near-Term Wi

HCM 6th Signalized Intersection Summary

12/12/2023

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 207 | 811 | 163 | 144 | 817 | 165 | 228 | 380 | 200 | 128 | 243 | 147 |
| Future Volume (veh/h) | 207 | 811 | 163 | 144 | 817 | 165 | 228 | 380 | 200 | 128 | 243 | 147 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 238 | 932 | 167 | 166 | 939 | 187 | 262 | 437 | 193 | 147 | 279 | 151 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 336 | 1316 | 576 | 253 | 1231 | 538 | 312 | 914 | 399 | 230 | 527 | 228 |
| Arrive On Green | 0.10 | 0.37 | 0.37 | 0.07 | 0.35 | 0.35 | 0.18 | 0.26 | 0.26 | 0.07 | 0.15 | 0.15 |
| Sat Flow, veh/h | 3456 | 3554 | 1555 | 3456 | 3554 | 1554 | 1781 | 3554 | 1550 | 3456 | 3554 | 1539 |
| Grp Volume(v), veh/h | 238 | 932 | 167 | 166 | 939 | 187 | 262 | 437 | 193 | 147 | 279 | 151 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1555 | 1728 | 1777 | 1554 | 1781 | 1777 | 1550 | 1728 | 1777 | 1539 |
| Q Serve(g_s), s | 5.1 | 17.1 | 5.8 | 3.6 | 18.0 | 6.8 | 10.9 | 8.0 | 8.1 | 3.2 | 5.6 | 7.1 |
| Cycle Q Clear(g_c), s | 5.1 | 17.1 | 5.8 | 3.6 | 18.0 | 6.8 | 10.9 | 8.0 | 8.1 | 3.2 | 5.6 | 7.1 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 336 | 1316 | 576 | 253 | 1231 | 538 | 312 | 914 | 399 | 230 | 527 | 228 |
| V/C Ratio(X) | 0.71 | 0.71 | 0.29 | 0.66 | 0.76 | 0.35 | 0.84 | 0.48 | 0.48 | 0.64 | 0.53 | 0.66 |
| Avail Cap(c_a), veh/h | 587 | 1988 | 870 | 465 | 1863 | 815 | 605 | 1645 | 717 | 438 | 887 | 384 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 33.5 | 20.5 | 17.0 | 34.5 | 22.2 | 18.6 | 30.5 | 24.1 | 24.1 | 34.8 | 30.1 | 30.8 |
| Incr Delay (d2), s/veh | 2.8 | 0.7 | 0.3 | 2.9 | 1.0 | 0.4 | 6.0 | 0.4 | 0.9 | 2.9 | 0.8 | 3.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.1 | 6.2 | 1.8 | 1.5 | 6.6 | 2.2 | 4.8 | 3.1 | 2.7 | 1.3 | 2.3 | 2.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 36.2 | 21.3 | 17.3 | 37.4 | 23.2 | 19.0 | 36.5 | 24.5 | 25.0 | 37.7 | 30.9 | 34.0 |
| LnGrp LOS | D | C | B | D | C | B | D | C | C | D | C | C |
| Approach Vol, veh/h | | 1337 | | | 1292 | | | 892 | | | 577 | |
| Approach Delay, s/veh | | 23.4 | | | 24.4 | | | 28.1 | | | 33.5 | |
| Approach LOS | | C | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 9.1 | 24.6 | 9.6 | 33.2 | 17.4 | 16.2 | 11.4 | 31.4 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 9.7 | 35.4 | 10.3 | 42.8 | 26.0 | 19.1 | 13.0 | 40.1 |
| Max Q Clear Time (g_c+I1), s | 5.2 | 10.1 | 5.6 | 19.1 | 12.9 | 9.1 | 7.1 | 20.0 |
| Green Ext Time (p_c), s | 0.2 | 3.3 | 0.2 | 6.8 | 0.6 | 1.5 | 0.4 | 6.5 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 26.2 |
| HCM 6th LOS | C |

Queues

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 238 | 932 | 187 | 166 | 939 | 190 | 262 | 437 | 230 | 147 | 279 | 169 |
| v/c Ratio | 0.58 | 0.73 | 0.29 | 0.49 | 0.78 | 0.29 | 0.73 | 0.50 | 0.46 | 0.46 | 0.56 | 0.47 |
| Control Delay | 48.7 | 30.8 | 9.4 | 49.7 | 34.1 | 5.0 | 50.3 | 33.2 | 13.6 | 49.9 | 45.0 | 11.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 48.7 | 30.8 | 9.4 | 49.7 | 34.1 | 5.0 | 50.3 | 33.2 | 13.6 | 49.9 | 45.0 | 11.3 |
| Queue Length 50th (ft) | 73 | 257 | 23 | 51 | 270 | 0 | 154 | 124 | 34 | 45 | 87 | 0 |
| Queue Length 95th (ft) | 126 | 368 | 73 | 94 | 386 | 44 | 261 | 176 | 96 | 86 | 140 | 55 |
| Internal Link Dist (ft) | | 1234 | | | 1233 | | | 1070 | | | 873 | |
| Turn Bay Length (ft) | 250 | | 50 | 250 | | 255 | 235 | | 65 | 255 | | 100 |
| Base Capacity (vph) | 487 | 1653 | 791 | 386 | 1549 | 782 | 502 | 1367 | 695 | 363 | 738 | 454 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.49 | 0.56 | 0.24 | 0.43 | 0.61 | 0.24 | 0.52 | 0.32 | 0.33 | 0.40 | 0.38 | 0.37 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 2.3 |

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 72 | 100 | 269 | 197 | 1 |
| Future Vol, veh/h | 0 | 72 | 100 | 269 | 197 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | 0 | 100 | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 78 | 109 | 292 | 214 | 1 |

| Major/Minor | Minor2 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | - | 108 | 215 | 0 | - | 0 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 0 | 925 | 1352 | - | - | - |
| Stage 1 | 0 | - | - | - | - | - |
| Stage 2 | 0 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | - | 925 | 1352 | - | - | - |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

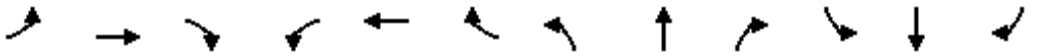
| Approach | EB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 9.3 | 2.1 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---|---|---|---|---|---|
| Capacity (veh/h) | 1352 | - | 925 | - | - |
| HCM Lane V/C Ratio | 0.08 | - | 0.085 | - | - |
| HCM Control Delay (s) | 7.9 | - | 9.3 | - | - |
| HCM Lane LOS | A | - | A | - | - |
| HCM 95th %tile Q(veh) | 0.3 | - | 0.3 | - | - |

1: Willow Ave & International Ave Cumulative (Year 2045) Wi

HCM 6th Signalized Intersection Summary

12/15/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 57 | 95 | 273 | 42 | 457 | 77 | 476 | 546 | 35 | 90 | 642 | 121 |
| Future Volume (veh/h) | 57 | 95 | 273 | 42 | 457 | 77 | 476 | 546 | 35 | 90 | 642 | 121 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.96 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 65 | 108 | 233 | 48 | 519 | 74 | 541 | 620 | 39 | 102 | 730 | 122 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 89 | 613 | 507 | 75 | 599 | 496 | 653 | 1121 | 480 | 132 | 1024 | 308 |
| Arrive On Green | 0.05 | 0.33 | 0.33 | 0.04 | 0.32 | 0.32 | 0.19 | 0.32 | 0.32 | 0.07 | 0.20 | 0.20 |
| Sat Flow, veh/h | 1781 | 1870 | 1547 | 1781 | 1870 | 1547 | 3456 | 3554 | 1521 | 1781 | 5106 | 1535 |
| Grp Volume(v), veh/h | 65 | 108 | 233 | 48 | 519 | 74 | 541 | 620 | 39 | 102 | 730 | 122 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1547 | 1781 | 1870 | 1547 | 1728 | 1777 | 1521 | 1781 | 1702 | 1535 |
| Q Serve(g_s), s | 2.7 | 3.1 | 8.8 | 2.0 | 19.3 | 2.5 | 11.2 | 10.7 | 1.3 | 4.2 | 9.9 | 5.1 |
| Cycle Q Clear(g_c), s | 2.7 | 3.1 | 8.8 | 2.0 | 19.3 | 2.5 | 11.2 | 10.7 | 1.3 | 4.2 | 9.9 | 5.1 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 89 | 613 | 507 | 75 | 599 | 496 | 653 | 1121 | 480 | 132 | 1024 | 308 |
| V/C Ratio(X) | 0.73 | 0.18 | 0.46 | 0.64 | 0.87 | 0.15 | 0.83 | 0.55 | 0.08 | 0.77 | 0.71 | 0.40 |
| Avail Cap(c_a), veh/h | 144 | 744 | 616 | 161 | 762 | 630 | 816 | 1165 | 499 | 281 | 1275 | 383 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 34.7 | 17.8 | 19.7 | 34.9 | 23.7 | 18.0 | 28.9 | 21.0 | 17.8 | 33.7 | 27.6 | 25.7 |
| Incr Delay (d2), s/veh | 11.0 | 0.1 | 0.6 | 8.6 | 8.5 | 0.1 | 5.8 | 0.5 | 0.1 | 9.2 | 1.4 | 0.8 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.4 | 1.3 | 3.1 | 1.0 | 9.4 | 0.9 | 4.7 | 3.9 | 0.5 | 2.0 | 3.7 | 1.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 45.8 | 17.9 | 20.4 | 43.5 | 32.2 | 18.1 | 34.7 | 21.6 | 17.9 | 42.9 | 29.1 | 26.6 |
| LnGrp LOS | D | B | C | D | C | B | C | C | B | D | C | C |
| Approach Vol, veh/h | | 406 | | | 641 | | | 1200 | | | 954 | |
| Approach Delay, s/veh | | 23.8 | | | 31.4 | | | 27.4 | | | 30.2 | |
| Approach LOS | | C | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 9.5 | 28.3 | 7.1 | 29.2 | 18.0 | 19.8 | 7.7 | 28.7 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 11.7 | 24.3 | 6.7 | 29.5 | 17.5 | 18.5 | 6.0 | 30.2 |
| Max Q Clear Time (g_c+I1), s | 6.2 | 12.7 | 4.0 | 10.8 | 13.2 | 11.9 | 4.7 | 21.3 |
| Green Ext Time (p_c), s | 0.1 | 2.9 | 0.0 | 1.3 | 0.9 | 2.6 | 0.0 | 2.4 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 28.6 |
| HCM 6th LOS | C |

## Queues

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 65 | 108 | 310 | 48 | 519 | 88 | 541 | 620 | 40 | 102 | 730 | 138 |
| v/c Ratio | 0.49 | 0.17 | 0.42 | 0.34 | 0.85 | 0.14 | 0.79 | 0.54 | 0.07 | 0.49 | 0.70 | 0.31 |
| Control Delay | 53.8 | 21.6 | 4.8 | 46.2 | 42.0 | 0.5 | 42.1 | 28.0 | 0.2 | 45.0 | 35.4 | 5.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 53.8 | 21.6 | 4.8 | 46.2 | 42.0 | 0.5 | 42.1 | 28.0 | 0.2 | 45.0 | 35.4 | 5.1 |
| Queue Length 50th (ft) | 37 | 43 | 0 | 27 | 269 | 0 | 153 | 161 | 0 | 55 | 142 | 0 |
| Queue Length 95th (ft) | #86 | 80 | 51 | 61 | #421 | 0 | #219 | 216 | 0 | 102 | 179 | 29 |
| Internal Link Dist (ft) | | 2470 | | | 1342 | | | 2623 | | | 1390 | |
| Turn Bay Length (ft) | 250 | | | | | 25 | 250 | | | 250 | | 205 |
| Base Capacity (vph) | 136 | 736 | 797 | 152 | 722 | 700 | 770 | 1151 | 571 | 266 | 1207 | 492 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.48 | 0.15 | 0.39 | 0.32 | 0.72 | 0.13 | 0.70 | 0.54 | 0.07 | 0.38 | 0.60 | 0.28 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Intersection | |
|---|---|
| Int Delay, s/veh | 6.5 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 5 | 2 | 149 | 1 | 1 | 1 | 450 | 269 | 6 | 1 | 338 | 29 |
| Future Vol, veh/h | 5 | 2 | 149 | 1 | 1 | 1 | 450 | 269 | 6 | 1 | 338 | 29 |
| Conflicting Peds, #/hr | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 5 | 2 | 162 | 1 | 1 | 1 | 489 | 292 | 7 | 1 | 367 | 32 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1670 | 1672 | 393 | 1751 | 1685 | 306 | 404 | 0 | 0 | 304 | 0 | 0 |
| Stage 1 | 390 | 390 | - | 1279 | 1279 | - | - | - | - | - | - | - |
| Stage 2 | 1280 | 1282 | - | 472 | 406 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 76 | 96 | 656 | 67 | 94 | 734 | 1155 | - | - | 1257 | - | - |
| Stage 1 | 634 | 608 | - | 204 | 237 | - | - | - | - | - | - | - |
| Stage 2 | 204 | 236 | - | 573 | 598 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 44 | 47 | 650 | 29 | 46 | 727 | 1150 | - | - | 1251 | - | - |
| Mov Cap-2 Maneuver | 44 | 47 | - | 29 | 46 | - | - | - | - | - | - | - |
| Stage 1 | 309 | 604 | - | 100 | 116 | - | - | - | - | - | - | - |
| Stage 2 | 98 | 115 | - | 426 | 594 | - | - | - | - | - | - | - |

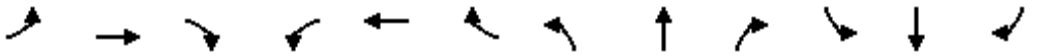
| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s | 20.1 | 78.8 | 6.5 | 0 |
| HCM LOS | C | F | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 1150 | - | - | 405 | 52 | 1251 | - | - |
| HCM Lane V/C Ratio | 0.425 | - | - | 0.419 | 0.063 | 0.001 | - | - |
| HCM Control Delay (s) | 10.4 | 0 | - | 20.1 | 78.8 | 7.9 | 0 | - |
| HCM Lane LOS | B | A | - | C | F | A | A | - |
| HCM 95th %tile Q(veh) | 2.2 | - | - | 2 | 0.2 | 0 | - | - |

3: Willow Ave & Behymer Ave Cumulative (Year 2045) Wi

HCM 6th Signalized Intersection Summary

12/15/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 82 | 171 | 279 | 125 | 371 | 187 | 162 | 1095 | 44 | 74 | 809 | 79 |
| Future Volume (veh/h) | 82 | 171 | 279 | 125 | 371 | 187 | 162 | 1095 | 44 | 74 | 809 | 79 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.95 | 1.00 | | 0.95 | 1.00 | | 0.91 | 1.00 | | 0.89 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 89 | 186 | 220 | 136 | 403 | 154 | 176 | 1190 | 40 | 80 | 879 | 61 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 114 | 599 | 482 | 172 | 448 | 171 | 214 | 1519 | 430 | 103 | 1199 | 333 |
| Arrive On Green | 0.06 | 0.32 | 0.32 | 0.10 | 0.35 | 0.35 | 0.12 | 0.30 | 0.30 | 0.06 | 0.23 | 0.23 |
| Sat Flow, veh/h | 1781 | 1870 | 1507 | 1781 | 1270 | 485 | 1781 | 5106 | 1447 | 1781 | 5106 | 1418 |
| Grp Volume(v), veh/h | 89 | 186 | 220 | 136 | 0 | 557 | 176 | 1190 | 40 | 80 | 879 | 61 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1507 | 1781 | 0 | 1755 | 1781 | 1702 | 1447 | 1781 | 1702 | 1418 |
| Q Serve(g_s), s | 3.8 | 5.9 | 9.1 | 5.8 | 0.0 | 23.5 | 7.5 | 16.7 | 1.6 | 3.5 | 12.4 | 2.7 |
| Cycle Q Clear(g_c), s | 3.8 | 5.9 | 9.1 | 5.8 | 0.0 | 23.5 | 7.5 | 16.7 | 1.6 | 3.5 | 12.4 | 2.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.28 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 114 | 599 | 482 | 172 | 0 | 619 | 214 | 1519 | 430 | 103 | 1199 | 333 |
| V/C Ratio(X) | 0.78 | 0.31 | 0.46 | 0.79 | 0.00 | 0.90 | 0.82 | 0.78 | 0.09 | 0.78 | 0.73 | 0.18 |
| Avail Cap(c_a), veh/h | 142 | 619 | 498 | 308 | 0 | 745 | 251 | 1761 | 499 | 137 | 1433 | 398 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 36.0 | 20.0 | 21.1 | 34.5 | 0.0 | 23.9 | 33.5 | 25.1 | 19.8 | 36.3 | 27.6 | 23.9 |
| Incr Delay (d2), s/veh | 19.5 | 0.3 | 0.7 | 7.8 | 0.0 | 12.4 | 17.0 | 2.1 | 0.1 | 18.1 | 1.6 | 0.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.2 | 2.4 | 3.0 | 2.7 | 0.0 | 10.7 | 4.0 | 6.2 | 0.5 | 1.9 | 4.7 | 0.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 55.5 | 20.3 | 21.8 | 42.3 | 0.0 | 36.3 | 50.5 | 27.2 | 19.9 | 54.4 | 29.2 | 24.1 |
| LnGrp LOS | E | C | C | D | A | D | D | C | B | D | C | C |
| Approach Vol, veh/h | | 495 | | | 693 | | | 1406 | | | 1020 | |
| Approach Delay, s/veh | | 27.3 | | | 37.5 | | | 29.9 | | | 30.9 | |
| Approach LOS | | C | | | D | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 8.5 | 28.1 | 11.5 | 29.9 | 13.4 | 23.2 | 9.0 | 32.4 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 6.0 | 26.9 | 13.5 | 25.8 | 11.0 | 21.9 | 6.2 | 33.1 |
| Max Q Clear Time (g_c+I1), s | 5.5 | 18.7 | 7.8 | 11.1 | 9.5 | 14.4 | 5.8 | 25.5 |
| Green Ext Time (p_c), s | 0.0 | 4.5 | 0.1 | 1.5 | 0.1 | 3.3 | 0.0 | 2.0 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 31.3 |
| HCM 6th LOS | C |



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 89 | 186 | 303 | 136 | 606 | 176 | 1190 | 48 | 80 | 879 | 86 |
| v/c Ratio | 0.66 | 0.32 | 0.46 | 0.58 | 0.92 | 0.78 | 0.71 | 0.08 | 0.62 | 0.71 | 0.17 |
| Control Delay | 66.5 | 26.2 | 6.7 | 46.4 | 46.9 | 62.1 | 29.3 | 0.3 | 62.9 | 33.6 | 0.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 66.5 | 26.2 | 6.7 | 46.4 | 46.9 | 62.1 | 29.3 | 0.3 | 62.9 | 33.6 | 0.7 |
| Queue Length 50th (ft) | 51 | 82 | 7 | 73 | 311 | 99 | 225 | 0 | 45 | 168 | 0 |
| Queue Length 95th (ft) | #128 | 142 | 70 | 130 | #526 | #209 | 279 | 0 | #116 | 213 | 0 |
| Internal Link Dist (ft) | | 2660 | | | 5395 | | 1188 | | | 2623 | |
| Turn Bay Length (ft) | 235 | | | 88 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 134 | 608 | 672 | 293 | 720 | 238 | 1682 | 574 | 130 | 1366 | 533 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.66 | 0.31 | 0.45 | 0.46 | 0.84 | 0.74 | 0.71 | 0.08 | 0.62 | 0.64 | 0.16 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 462 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 3 | 188 | 98 | 61 | 529 | 390 | 133 | 290 | 14 | 169 | 594 | 11 |
| Future Vol, veh/h | 3 | 188 | 98 | 61 | 529 | 390 | 133 | 290 | 14 | 169 | 594 | 11 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 194 | 101 | 63 | 545 | 402 | 137 | 299 | 14 | 174 | 612 | 11 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

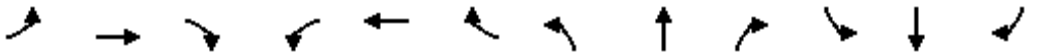
| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 68.2 | 692.6 | 148.1 | 494.2 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 30% | 1% | 6% | 22% |
| Vol Thru, % | 66% | 65% | 54% | 77% |
| Vol Right, % | 3% | 34% | 40% | 1% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 437 | 289 | 980 | 774 |
| LT Vol | 133 | 3 | 61 | 169 |
| Through Vol | 290 | 188 | 529 | 594 |
| RT Vol | 14 | 98 | 390 | 11 |
| Lane Flow Rate | 451 | 298 | 1010 | 798 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 1.132 | 0.78 | 2.464 | 2.004 |
| Departure Headway (Hd) | 17.2 | 19.063 | 11.685 | 13.63 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 216 | 194 | 323 | 279 |
| Service Time | 15.2 | 17.063 | 9.685 | 11.63 |
| HCM Lane V/C Ratio | 2.088 | 1.536 | 3.127 | 2.86 |
| HCM Control Delay | 148.1 | 68.2 | 692.6 | 494.2 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 11.3 | 5.3 | 61 | 38.3 |

5: Minnewawa Ave & Shepherd Ave Cumulative (Year 2045) Wi

HCM 6th Signalized Intersection Summary

12/15/2023

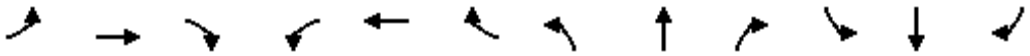


| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 97 | 710 | 364 | 228 | 881 | 200 | 218 | 318 | 101 | 355 | 912 | 147 |
| Future Volume (veh/h) | 97 | 710 | 364 | 228 | 881 | 200 | 218 | 318 | 101 | 355 | 912 | 147 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.96 | 1.00 | | 0.97 | 1.00 | | 0.98 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 103 | 755 | 370 | 243 | 937 | 129 | 232 | 338 | 98 | 378 | 970 | 143 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 83 | 912 | 392 | 257 | 662 | 543 | 166 | 488 | 404 | 392 | 724 | 595 |
| Arrive On Green | 0.05 | 0.26 | 0.26 | 0.14 | 0.35 | 0.35 | 0.09 | 0.26 | 0.26 | 0.22 | 0.39 | 0.39 |
| Sat Flow, veh/h | 1781 | 3554 | 1527 | 1781 | 1870 | 1534 | 1781 | 1870 | 1550 | 1781 | 1870 | 1536 |
| Grp Volume(v), veh/h | 103 | 755 | 370 | 243 | 937 | 129 | 232 | 338 | 98 | 378 | 970 | 143 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1777 | 1527 | 1781 | 1870 | 1534 | 1781 | 1870 | 1550 | 1781 | 1870 | 1536 |
| Q Serve(g_s), s | 7.0 | 30.1 | 35.7 | 20.3 | 53.1 | 8.9 | 14.0 | 24.5 | 7.5 | 31.5 | 58.1 | 9.4 |
| Cycle Q Clear(g_c), s | 7.0 | 30.1 | 35.7 | 20.3 | 53.1 | 8.9 | 14.0 | 24.5 | 7.5 | 31.5 | 58.1 | 9.4 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 83 | 912 | 392 | 257 | 662 | 543 | 166 | 488 | 404 | 392 | 724 | 595 |
| V/C Ratio(X) | 1.24 | 0.83 | 0.94 | 0.95 | 1.42 | 0.24 | 1.40 | 0.69 | 0.24 | 0.96 | 1.34 | 0.24 |
| Avail Cap(c_a), veh/h | 83 | 912 | 392 | 257 | 662 | 543 | 166 | 488 | 404 | 392 | 724 | 595 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 71.5 | 52.6 | 54.7 | 63.6 | 48.5 | 34.2 | 68.0 | 50.0 | 43.8 | 57.9 | 46.0 | 31.0 |
| Incr Delay (d2), s/veh | 176.1 | 6.4 | 31.5 | 41.9 | 195.7 | 0.2 | 210.3 | 4.2 | 0.3 | 36.1 | 161.8 | 0.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 7.2 | 13.8 | 16.7 | 12.0 | 59.7 | 3.3 | 15.9 | 11.7 | 2.9 | 17.7 | 58.3 | 3.5 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 247.6 | 59.0 | 86.1 | 105.5 | 244.1 | 34.4 | 278.3 | 54.2 | 44.1 | 94.1 | 207.7 | 31.2 |
| LnGrp LOS | F | E | F | F | F | C | F | D | D | F | F | C |
| Approach Vol, veh/h | | 1228 | | | 1309 | | | 668 | | | 1491 | |
| Approach Delay, s/veh | | 83.0 | | | 197.7 | | | 130.6 | | | 162.0 | |
| Approach LOS | | F | | | F | | | F | | | F | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 37.0 | 44.0 | 25.6 | 43.4 | 18.0 | 63.0 | 11.0 | 58.0 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 33.0 | 39.1 | 21.6 | 38.5 | 14.0 | 58.1 | 7.0 | 53.1 |
| Max Q Clear Time (g_c+I1), s | 33.5 | 26.5 | 22.3 | 37.7 | 16.0 | 60.1 | 9.0 | 55.1 |
| Green Ext Time (p_c), s | 0.0 | 1.7 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 146.8 |
| HCM 6th LOS | F |

Queues



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 103 | 755 | 387 | 243 | 937 | 213 | 232 | 338 | 107 | 378 | 970 | 156 |
| v/c Ratio | 1.26 | 0.83 | 0.80 | 0.96 | 1.42 | 0.35 | 1.41 | 0.70 | 0.22 | 0.97 | 1.35 | 0.24 |
| Control Delay | 237.1 | 61.8 | 47.7 | 109.1 | 235.1 | 20.0 | 261.3 | 58.9 | 4.6 | 96.4 | 201.4 | 12.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 237.1 | 61.8 | 47.7 | 109.1 | 235.1 | 20.0 | 261.3 | 58.9 | 4.6 | 96.4 | 201.4 | 12.4 |
| Queue Length 50th (ft) | ~125 | 370 | 246 | 240 | ~1232 | 77 | ~303 | 301 | 0 | 371 | ~1236 | 34 |
| Queue Length 95th (ft) | #255 | 450 | #405 | #415 | #1494 | 150 | #482 | 416 | 31 | #583 | #1497 | 87 |
| Internal Link Dist (ft) | | 2560 | | | 1263 | | | 2631 | | | 2555 | |
| Turn Bay Length (ft) | 250 | | 45 | 250 | | 200 | 250 | | | 255 | | 25 |
| Base Capacity (vph) | 82 | 908 | 483 | 254 | 659 | 600 | 165 | 485 | 497 | 389 | 721 | 647 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 1.26 | 0.83 | 0.80 | 0.96 | 1.42 | 0.35 | 1.41 | 0.70 | 0.22 | 0.97 | 1.35 | 0.24 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Intersection | |
|---|---|
| Int Delay, s/veh | 2.3 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 34 | 1119 | 17 | 6 | 1212 | 27 | 0 | 0 | 17 | 0 | 0 | 110 |
| Future Vol, veh/h | 34 | 1119 | 17 | 6 | 1212 | 27 | 0 | 0 | 17 | 0 | 0 | 110 |
| Conflicting Peds, #/hr | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 265 | - | - | 265 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 36 | 1178 | 18 | 6 | 1276 | 28 | 0 | 0 | 18 | 0 | 0 | 116 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1309 | 0 | 0 | 1201 | 0 | 0 | - | - | 608 | - | - | 1286 |
| Stage 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Critical Hdwy | 4.13 | - | - | 4.13 | - | - | - | - | 6.93 | - | - | 6.23 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Follow-up Hdwy | 2.219 | - | - | 2.219 | - | - | - | - | 3.319 | - | - | 3.319 |
| Pot Cap-1 Maneuver | 527 | - | - | 579 | - | - | 0 | 0 | 440 | 0 | 0 | 200 |
| Stage 1 | - | - | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Stage 2 | - | - | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 524 | - | - | 576 | - | - | - | - | 436 | - | - | 198 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - | - | - | - | - | - | - |

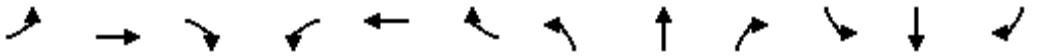
| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s | 0.4 | 0.1 | 13.6 | 46 |
| HCM LOS | | | B | E |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 436 | 524 | - | - | 576 | - | - | 198 |
| HCM Lane V/C Ratio | 0.041 | 0.068 | - | - | 0.011 | - | - | 0.585 |
| HCM Control Delay (s) | 13.6 | 12.4 | - | - | 11.3 | - | - | 46 |
| HCM Lane LOS | B | B | - | - | B | - | - | E |
| HCM 95th %tile Q(veh) | 0.1 | 0.2 | - | - | 0 | - | - | 3.2 |

7: Clovis Ave & Shepherd Ave Cumulative (Year 2045) Wi

HCM 6th Signalized Intersection Summary

12/15/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 120 | 735 | 218 | 325 | 853 | 183 | 206 | 212 | 175 | 203 | 639 | 320 |
| Future Volume (veh/h) | 120 | 735 | 218 | 325 | 853 | 183 | 206 | 212 | 175 | 203 | 639 | 320 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.98 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 130 | 799 | 215 | 353 | 927 | 198 | 224 | 230 | 183 | 221 | 695 | 324 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 196 | 980 | 428 | 437 | 1228 | 537 | 262 | 1135 | 496 | 300 | 921 | 402 |
| Arrive On Green | 0.06 | 0.28 | 0.28 | 0.13 | 0.35 | 0.35 | 0.15 | 0.32 | 0.32 | 0.09 | 0.26 | 0.26 |
| Sat Flow, veh/h | 3456 | 3554 | 1551 | 3456 | 3554 | 1554 | 1781 | 3554 | 1553 | 3456 | 3554 | 1550 |
| Grp Volume(v), veh/h | 130 | 799 | 215 | 353 | 927 | 198 | 224 | 230 | 183 | 221 | 695 | 324 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1551 | 1728 | 1777 | 1554 | 1781 | 1777 | 1553 | 1728 | 1777 | 1550 |
| Q Serve(g_s), s | 3.4 | 19.5 | 10.8 | 9.2 | 21.5 | 8.9 | 11.4 | 4.4 | 8.5 | 5.8 | 16.8 | 18.2 |
| Cycle Q Clear(g_c), s | 3.4 | 19.5 | 10.8 | 9.2 | 21.5 | 8.9 | 11.4 | 4.4 | 8.5 | 5.8 | 16.8 | 18.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 196 | 980 | 428 | 437 | 1228 | 537 | 262 | 1135 | 496 | 300 | 921 | 402 |
| V/C Ratio(X) | 0.66 | 0.81 | 0.50 | 0.81 | 0.75 | 0.37 | 0.85 | 0.20 | 0.37 | 0.74 | 0.75 | 0.81 |
| Avail Cap(c_a), veh/h | 260 | 1226 | 535 | 594 | 1569 | 686 | 383 | 1424 | 622 | 475 | 1149 | 501 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 43.0 | 31.5 | 28.3 | 39.5 | 27.0 | 22.8 | 38.7 | 23.0 | 24.4 | 41.5 | 31.8 | 32.3 |
| Incr Delay (d2), s/veh | 3.8 | 3.5 | 0.9 | 5.9 | 1.6 | 0.4 | 11.9 | 0.1 | 0.5 | 3.5 | 2.2 | 7.6 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.5 | 8.2 | 3.8 | 4.0 | 8.5 | 3.0 | 5.6 | 1.7 | 2.9 | 2.5 | 7.0 | 7.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 46.8 | 35.0 | 29.2 | 45.4 | 28.6 | 23.3 | 50.6 | 23.1 | 24.9 | 45.0 | 34.0 | 39.9 |
| LnGrp LOS | D | D | C | D | C | C | D | C | C | D | C | D |
| Approach Vol, veh/h | | 1144 | | | 1478 | | | 637 | | | 1240 | |
| Approach Delay, s/veh | | 35.3 | | | 31.9 | | | 33.3 | | | 37.5 | |
| Approach LOS | | D | | | C | | | C | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.1 | 34.6 | 15.8 | 30.6 | 17.7 | 29.0 | 9.3 | 37.1 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 12.8 | 37.3 | 16.0 | 32.1 | 20.0 | 30.1 | 7.0 | 41.1 |
| Max Q Clear Time (g_c+I1), s | 7.8 | 10.5 | 11.2 | 21.5 | 13.4 | 20.2 | 5.4 | 23.5 |
| Green Ext Time (p_c), s | 0.3 | 1.9 | 0.5 | 4.1 | 0.3 | 3.9 | 0.0 | 6.2 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 34.5 |
| HCM 6th LOS | C |

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 130 | 799 | 237 | 353 | 927 | 199 | 224 | 230 | 190 | 221 | 695 | 348 |
| v/c Ratio | 0.57 | 0.83 | 0.44 | 0.74 | 0.76 | 0.30 | 0.77 | 0.21 | 0.31 | 0.59 | 0.78 | 0.65 |
| Control Delay | 61.3 | 45.5 | 13.6 | 55.7 | 36.0 | 4.9 | 62.2 | 28.3 | 5.6 | 54.1 | 44.7 | 21.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 61.3 | 45.5 | 13.6 | 55.7 | 36.0 | 4.9 | 62.2 | 28.3 | 5.6 | 54.1 | 44.7 | 21.9 |
| Queue Length 50th (ft) | 50 | 293 | 39 | 132 | 316 | 0 | 160 | 65 | 0 | 82 | 252 | 96 |
| Queue Length 95th (ft) | #84 | 370 | 110 | 184 | 394 | 49 | #268 | 97 | 51 | 123 | 323 | 201 |
| Internal Link Dist (ft) | | 1234 | | | 1233 | | | 1070 | | | 873 | |
| Turn Bay Length (ft) | 250 | | 50 | 250 | | 255 | 235 | | 65 | 255 | | 100 |
| Base Capacity (vph) | 233 | 1101 | 595 | 532 | 1409 | 734 | 343 | 1280 | 679 | 425 | 1032 | 591 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.56 | 0.73 | 0.40 | 0.66 | 0.66 | 0.27 | 0.65 | 0.18 | 0.28 | 0.52 | 0.67 | 0.59 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Intersection | |
|---|---|
| Int Delay, s/veh | 1 |

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 88 | 30 | 491 | 856 | 1 |
| Future Vol, veh/h | 0 | 88 | 30 | 491 | 856 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | 0 | 100 | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 96 | 33 | 534 | 930 | 1 |

| Major/Minor | Minor2 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | - | 466 | 931 | 0 | - | 0 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 0 | 543 | 731 | - | - | - |
| Stage 1 | 0 | - | - | - | - | - |
| Stage 2 | 0 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | - | 543 | 731 | - | - | - |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

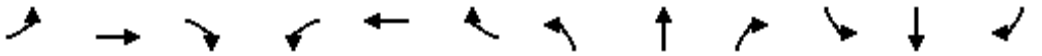
| Approach | EB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 13 | 0.6 | 0 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---|---|---|---|---|---|
| Capacity (veh/h) | 731 | - | 543 | - | - |
| HCM Lane V/C Ratio | 0.045 | - | 0.176 | - | - |
| HCM Control Delay (s) | 10.2 | - | 13 | - | - |
| HCM Lane LOS | B | - | B | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | 0.6 | - | - |

1: Willow Ave & International Ave Cumulative (Year 2045) Wi

HCM 6th Signalized Intersection Summary

12/15/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 22 | 131 | 228 | 28 | 118 | 62 | 231 | 670 | 30 | 78 | 624 | 46 |
| Future Volume (veh/h) | 22 | 131 | 228 | 28 | 118 | 62 | 231 | 670 | 30 | 78 | 624 | 46 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.96 | 1.00 | | 0.96 | 1.00 | | 0.96 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 25 | 149 | 184 | 32 | 134 | 51 | 262 | 761 | 28 | 89 | 709 | 46 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 53 | 356 | 291 | 64 | 368 | 301 | 419 | 1171 | 499 | 129 | 1433 | 432 |
| Arrive On Green | 0.03 | 0.19 | 0.19 | 0.04 | 0.20 | 0.20 | 0.12 | 0.33 | 0.33 | 0.07 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1781 | 1870 | 1526 | 1781 | 1870 | 1528 | 3456 | 3554 | 1515 | 1781 | 5106 | 1539 |
| Grp Volume(v), veh/h | 25 | 149 | 184 | 32 | 134 | 51 | 262 | 761 | 28 | 89 | 709 | 46 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1526 | 1781 | 1870 | 1528 | 1728 | 1777 | 1515 | 1781 | 1702 | 1539 |
| Q Serve(g_s), s | 0.7 | 3.4 | 5.3 | 0.8 | 3.0 | 1.3 | 3.5 | 8.8 | 0.6 | 2.3 | 5.6 | 1.1 |
| Cycle Q Clear(g_c), s | 0.7 | 3.4 | 5.3 | 0.8 | 3.0 | 1.3 | 3.5 | 8.8 | 0.6 | 2.3 | 5.6 | 1.1 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 53 | 356 | 291 | 64 | 368 | 301 | 419 | 1171 | 499 | 129 | 1433 | 432 |
| V/C Ratio(X) | 0.48 | 0.42 | 0.63 | 0.50 | 0.36 | 0.17 | 0.63 | 0.65 | 0.06 | 0.69 | 0.49 | 0.11 |
| Avail Cap(c_a), veh/h | 260 | 785 | 641 | 260 | 785 | 641 | 1010 | 2530 | 1079 | 409 | 3315 | 999 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 22.9 | 17.1 | 17.9 | 22.7 | 16.6 | 16.0 | 20.0 | 13.7 | 11.0 | 21.7 | 14.4 | 12.8 |
| Incr Delay (d2), s/veh | 6.5 | 0.8 | 2.3 | 5.8 | 0.6 | 0.3 | 1.5 | 0.6 | 0.0 | 6.4 | 0.3 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 1.4 | 1.8 | 0.4 | 1.2 | 0.4 | 1.2 | 2.6 | 0.2 | 1.0 | 1.6 | 0.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 29.4 | 17.8 | 20.1 | 28.5 | 17.2 | 16.2 | 21.5 | 14.3 | 11.0 | 28.1 | 14.7 | 12.9 |
| LnGrp LOS | C | B | C | C | B | B | C | B | B | C | B | B |
| Approach Vol, veh/h | | 358 | | | 217 | | | 1051 | | | 844 | |
| Approach Delay, s/veh | | 19.8 | | | 18.7 | | | 16.0 | | | 16.0 | |
| Approach LOS | | B | | | B | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 7.5 | 20.7 | 5.7 | 14.0 | 9.8 | 18.3 | 5.4 | 14.3 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 11.0 | 34.1 | 7.0 | 20.1 | 14.0 | 31.1 | 7.0 | 20.1 |
| Max Q Clear Time (g_c+I1), s | 4.3 | 10.8 | 2.8 | 7.3 | 5.5 | 7.6 | 2.7 | 5.0 |
| Green Ext Time (p_c), s | 0.1 | 4.9 | 0.0 | 1.2 | 0.5 | 4.6 | 0.0 | 0.7 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 16.8 |
| HCM 6th LOS | B |

Queues

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 25 | 149 | 259 | 32 | 134 | 70 | 263 | 761 | 34 | 89 | 709 | 52 |
| v/c Ratio | 0.12 | 0.41 | 0.51 | 0.15 | 0.37 | 0.18 | 0.42 | 0.55 | 0.05 | 0.33 | 0.45 | 0.09 |
| Control Delay | 33.1 | 28.2 | 8.1 | 33.1 | 27.5 | 2.5 | 27.1 | 18.3 | 0.1 | 31.5 | 18.3 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 33.1 | 28.2 | 8.1 | 33.1 | 27.5 | 2.5 | 27.1 | 18.3 | 0.1 | 31.5 | 18.3 | 0.3 |
| Queue Length 50th (ft) | 7 | 42 | 0 | 9 | 37 | 0 | 38 | 96 | 0 | 26 | 60 | 0 |
| Queue Length 95th (ft) | 36 | 119 | 55 | 43 | 108 | 9 | 100 | 221 | 0 | 86 | 136 | 0 |
| Internal Link Dist (ft) | | 2470 | | | 1342 | | | 2623 | | | 1390 | |
| Turn Bay Length (ft) | 250 | | | | | 25 | 250 | | | 250 | | 205 |
| Base Capacity (vph) | 234 | 709 | 742 | 234 | 709 | 656 | 910 | 2285 | 1016 | 368 | 2994 | 955 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.11 | 0.21 | 0.35 | 0.14 | 0.19 | 0.11 | 0.29 | 0.33 | 0.03 | 0.24 | 0.24 | 0.05 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 16.3 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 70 | 2 | 164 | 1 | 2 | 1 | 188 | 360 | 37 | 1 | 355 | 30 |
| Future Vol, veh/h | 70 | 2 | 164 | 1 | 2 | 1 | 188 | 360 | 37 | 1 | 355 | 30 |
| Conflicting Peds, #/hr | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 76 | 2 | 178 | 1 | 2 | 1 | 204 | 391 | 40 | 1 | 386 | 33 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1236 | 1254 | 413 | 1324 | 1250 | 421 | 424 | 0 | 0 | 436 | 0 | 0 |
| Stage 1 | 410 | 410 | - | 824 | 824 | - | - | - | - | - | - | - |
| Stage 2 | 826 | 844 | - | 500 | 426 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 153 | 172 | 639 | 133 | 173 | 632 | 1135 | - | - | 1124 | - | - |
| Stage 1 | 619 | 595 | - | 367 | 387 | - | - | - | - | - | - | - |
| Stage 2 | 366 | 379 | - | 553 | 586 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 122 | 130 | 633 | 76 | 130 | 626 | 1130 | - | - | 1119 | - | - |
| Mov Cap-2 Maneuver | 122 | 130 | - | 76 | 130 | - | - | - | - | - | - | - |
| Stage 1 | 469 | 591 | - | 278 | 293 | - | - | - | - | - | - | - |
| Stage 2 | 275 | 287 | - | 394 | 582 | - | - | - | - | - | - | - |

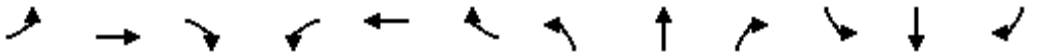
| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s | 75.9 | 33 | 2.9 | 0 |
| HCM LOS | F | D | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 1130 | - | - | 278 | 133 | 1119 | - | - |
| HCM Lane V/C Ratio | 0.181 | - | - | 0.923 | 0.033 | 0.001 | - | - |
| HCM Control Delay (s) | 8.9 | 0 | - | 75.9 | 33 | 8.2 | 0 | - |
| HCM Lane LOS | A | A | - | F | D | A | A | - |
| HCM 95th %tile Q(veh) | 0.7 | - | - | 8.6 | 0.1 | 0 | - | - |

3: Willow Ave & Behymer Ave Cumulative (Year 2045) Wi

HCM 6th Signalized Intersection Summary

12/15/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 22 | 128 | 163 | 128 | 183 | 103 | 187 | 907 | 180 | 155 | 896 | 27 |
| Future Volume (veh/h) | 22 | 128 | 163 | 128 | 183 | 103 | 187 | 907 | 180 | 155 | 896 | 27 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.96 | 1.00 | | 0.97 | 1.00 | | 0.96 | 1.00 | | 0.96 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 24 | 139 | 150 | 139 | 199 | 90 | 203 | 986 | 191 | 168 | 974 | 13 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 50 | 296 | 242 | 177 | 277 | 125 | 252 | 1520 | 453 | 212 | 1405 | 418 |
| Arrive On Green | 0.03 | 0.16 | 0.16 | 0.10 | 0.23 | 0.23 | 0.14 | 0.30 | 0.30 | 0.12 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1781 | 1870 | 1529 | 1781 | 1207 | 546 | 1781 | 5106 | 1521 | 1781 | 5106 | 1518 |
| Grp Volume(v), veh/h | 24 | 139 | 150 | 139 | 0 | 289 | 203 | 986 | 191 | 168 | 974 | 13 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1529 | 1781 | 0 | 1754 | 1781 | 1702 | 1521 | 1781 | 1702 | 1518 |
| Q Serve(g_s), s | 0.7 | 3.7 | 5.0 | 4.2 | 0.0 | 8.3 | 6.0 | 9.2 | 5.5 | 5.0 | 9.3 | 0.3 |
| Cycle Q Clear(g_c), s | 0.7 | 3.7 | 5.0 | 4.2 | 0.0 | 8.3 | 6.0 | 9.2 | 5.5 | 5.0 | 9.3 | 0.3 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.31 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 50 | 296 | 242 | 177 | 0 | 402 | 252 | 1520 | 453 | 212 | 1405 | 418 |
| V/C Ratio(X) | 0.48 | 0.47 | 0.62 | 0.79 | 0.00 | 0.72 | 0.81 | 0.65 | 0.42 | 0.79 | 0.69 | 0.03 |
| Avail Cap(c_a), veh/h | 193 | 617 | 504 | 212 | 0 | 598 | 294 | 1880 | 560 | 248 | 1749 | 520 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 26.1 | 20.9 | 21.4 | 24.0 | 0.0 | 19.4 | 22.7 | 16.7 | 15.4 | 23.4 | 17.7 | 14.5 |
| Incr Delay (d2), s/veh | 7.1 | 1.2 | 2.6 | 14.8 | 0.0 | 2.4 | 13.4 | 0.6 | 0.6 | 14.1 | 0.9 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.4 | 1.5 | 1.7 | 2.2 | 0.0 | 3.1 | 3.0 | 2.9 | 1.6 | 2.6 | 3.0 | 0.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 33.2 | 22.1 | 24.0 | 38.9 | 0.0 | 21.8 | 36.1 | 17.2 | 16.0 | 37.5 | 18.6 | 14.5 |
| LnGrp LOS | C | C | C | D | A | C | D | B | B | D | B | B |
| Approach Vol, veh/h | | 313 | | | 428 | | | 1380 | | | 1155 | |
| Approach Delay, s/veh | | 23.9 | | | 27.3 | | | 19.8 | | | 21.3 | |
| Approach LOS | | C | | | C | | | B | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 10.5 | 21.1 | 9.4 | 13.5 | 11.7 | 19.9 | 5.5 | 17.4 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 7.6 | 20.1 | 6.5 | 18.0 | 9.0 | 18.7 | 5.9 | 18.6 |
| Max Q Clear Time (g_c+I1), s | 7.0 | 11.2 | 6.2 | 7.0 | 8.0 | 11.3 | 2.7 | 10.3 |
| Green Ext Time (p_c), s | 0.0 | 4.4 | 0.0 | 0.9 | 0.1 | 3.5 | 0.0 | 0.9 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 21.7 |
| HCM 6th LOS | C |

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 24 | 139 | 177 | 139 | 311 | 203 | 986 | 196 | 168 | 974 | 29 |
| v/c Ratio | 0.15 | 0.40 | 0.41 | 0.75 | 0.56 | 0.79 | 0.66 | 0.33 | 0.77 | 0.70 | 0.06 |
| Control Delay | 31.2 | 25.6 | 7.0 | 57.4 | 22.2 | 53.1 | 22.2 | 5.2 | 55.8 | 24.1 | 0.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 31.2 | 25.6 | 7.0 | 57.4 | 22.2 | 53.1 | 22.2 | 5.2 | 55.8 | 24.1 | 0.2 |
| Queue Length 50th (ft) | 8 | 48 | 0 | 52 | 80 | 74 | 111 | 0 | 62 | 113 | 0 |
| Queue Length 95th (ft) | 31 | 92 | 43 | #154 | 182 | #202 | 179 | 43 | #177 | 182 | 0 |
| Internal Link Dist (ft) | | 2660 | | | 5395 | | 1188 | | | 2623 | |
| Turn Bay Length (ft) | 235 | | | 88 | | 250 | | 105 | 250 | | 205 |
| Base Capacity (vph) | 169 | 543 | 575 | 186 | 564 | 257 | 1655 | 625 | 217 | 1539 | 566 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.14 | 0.26 | 0.31 | 0.75 | 0.55 | 0.79 | 0.60 | 0.31 | 0.77 | 0.63 | 0.05 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 295.2 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 14 | 377 | 109 | 22 | 222 | 245 | 154 | 442 | 30 | 216 | 270 | 7 |
| Future Vol, veh/h | 14 | 377 | 109 | 22 | 222 | 245 | 154 | 442 | 30 | 216 | 270 | 7 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 15 | 410 | 118 | 24 | 241 | 266 | 167 | 480 | 33 | 235 | 293 | 8 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 254.2 | 226.9 | 409.4 | 259.6 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 25% | 3% | 4% | 44% |
| Vol Thru, % | 71% | 75% | 45% | 55% |
| Vol Right, % | 5% | 22% | 50% | 1% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 626 | 500 | 489 | 493 |
| LT Vol | 154 | 14 | 22 | 216 |
| Through Vol | 442 | 377 | 222 | 270 |
| RT Vol | 30 | 109 | 245 | 7 |
| Lane Flow Rate | 680 | 543 | 532 | 536 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 1.809 | 1.435 | 1.366 | 1.445 |
| Departure Headway (Hd) | 13.77 | 14.864 | 15.015 | 15.262 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 272 | 250 | 250 | 246 |
| Service Time | 11.77 | 12.864 | 13.015 | 13.262 |
| HCM Lane V/C Ratio | 2.5 | 2.172 | 2.128 | 2.179 |
| HCM Control Delay | 409.4 | 254.2 | 226.9 | 259.6 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 32 | 19.8 | 17.8 | 19.6 |

5: Minnewawa Ave & Shepherd Ave Cumulative (Year 2045) Wi

HCM 6th Signalized Intersection Summary

12/15/2023

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 173 | 1141 | 218 | 155 | 934 | 211 | 313 | 707 | 182 | 179 | 521 | 127 |
| Future Volume (veh/h) | 173 | 1141 | 218 | 155 | 934 | 211 | 313 | 707 | 182 | 179 | 521 | 127 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.96 | 1.00 | | 0.97 | 1.00 | | 0.98 | 1.00 | | 0.96 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 188 | 1240 | 225 | 168 | 1015 | 169 | 340 | 768 | 193 | 195 | 566 | 130 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 143 | 1324 | 570 | 181 | 737 | 603 | 249 | 600 | 497 | 154 | 500 | 406 |
| Arrive On Green | 0.08 | 0.37 | 0.37 | 0.10 | 0.39 | 0.39 | 0.14 | 0.32 | 0.32 | 0.09 | 0.27 | 0.27 |
| Sat Flow, veh/h | 1781 | 3554 | 1529 | 1781 | 1870 | 1530 | 1781 | 1870 | 1549 | 1781 | 1870 | 1519 |
| Grp Volume(v), veh/h | 188 | 1240 | 225 | 168 | 1015 | 169 | 340 | 768 | 193 | 195 | 566 | 130 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1777 | 1529 | 1781 | 1870 | 1530 | 1781 | 1870 | 1549 | 1781 | 1870 | 1519 |
| Q Serve(g_s), s | 12.0 | 50.4 | 16.2 | 14.0 | 59.1 | 11.3 | 21.0 | 48.1 | 14.5 | 13.0 | 40.1 | 10.3 |
| Cycle Q Clear(g_c), s | 12.0 | 50.4 | 16.2 | 14.0 | 59.1 | 11.3 | 21.0 | 48.1 | 14.5 | 13.0 | 40.1 | 10.3 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 143 | 1324 | 570 | 181 | 737 | 603 | 249 | 600 | 497 | 154 | 500 | 406 |
| V/C Ratio(X) | 1.32 | 0.94 | 0.39 | 0.93 | 1.38 | 0.28 | 1.36 | 1.28 | 0.39 | 1.26 | 1.13 | 0.32 |
| Avail Cap(c_a), veh/h | 143 | 1324 | 570 | 181 | 737 | 603 | 249 | 600 | 497 | 154 | 500 | 406 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 69.0 | 45.3 | 34.6 | 66.9 | 45.4 | 31.0 | 64.5 | 50.9 | 39.5 | 68.5 | 55.0 | 44.0 |
| Incr Delay (d2), s/veh | 184.3 | 12.5 | 0.4 | 47.4 | 178.3 | 0.3 | 187.2 | 138.7 | 0.5 | 159.9 | 81.8 | 0.5 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 12.6 | 23.6 | 6.0 | 8.6 | 62.6 | 4.1 | 22.3 | 44.7 | 5.5 | 12.6 | 29.6 | 3.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 253.3 | 57.9 | 35.1 | 114.3 | 223.7 | 31.2 | 251.7 | 189.6 | 40.0 | 228.4 | 136.8 | 44.5 |
| LnGrp LOS | F | E | D | F | F | C | F | F | D | F | F | D |
| Approach Vol, veh/h | | 1653 | | | 1352 | | | 1301 | | | 891 | |
| Approach Delay, s/veh | | 77.0 | | | 186.1 | | | 183.7 | | | 143.3 | |
| Approach LOS | | E | | | F | | | F | | | F | |

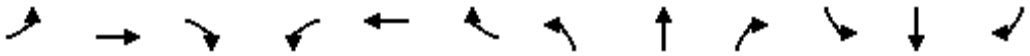
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 17.0 | 53.0 | 19.2 | 60.8 | 25.0 | 45.0 | 16.0 | 64.0 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 13.0 | 48.1 | 15.2 | 55.9 | 21.0 | 40.1 | 12.0 | 59.1 |
| Max Q Clear Time (g_c+I1), s | 15.0 | 50.1 | 16.0 | 52.4 | 23.0 | 42.1 | 14.0 | 61.1 |
| Green Ext Time (p_c), s | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 143.4 |
| HCM 6th LOS | F |

5: Minnewawa Ave & Shepherd Ave Cumulative (Year 2045) Wi

Queues

12/15/2023



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 188 | 1240 | 237 | 168 | 1015 | 229 | 340 | 768 | 198 | 195 | 566 | 138 |
| v/c Ratio | 1.33 | 0.94 | 0.38 | 0.94 | 1.38 | 0.35 | 1.38 | 1.29 | 0.35 | 1.27 | 1.14 | 0.29 |
| Control Delay | 239.9 | 59.7 | 21.0 | 118.6 | 216.5 | 18.9 | 238.6 | 182.4 | 20.7 | 216.3 | 132.1 | 15.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 239.9 | 59.7 | 21.0 | 118.6 | 216.5 | 18.9 | 238.6 | 182.4 | 20.7 | 216.3 | 132.1 | 15.3 |
| Queue Length 50th (ft) | ~238 | 614 | 94 | 166 | ~1314 | 84 | ~438 | ~952 | 70 | ~240 | ~643 | 27 |
| Queue Length 95th (ft) | #400 | #760 | 170 | #315 | #1578 | 155 | #641 | #1204 | 142 | #406 | #878 | 87 |
| Internal Link Dist (ft) | | 2560 | | | 1263 | | | 2631 | | | 2555 | |
| Turn Bay Length (ft) | 250 | | 45 | 250 | | 200 | 250 | | | 255 | | 25 |
| Base Capacity (vph) | 141 | 1318 | 624 | 179 | 734 | 654 | 247 | 597 | 560 | 153 | 498 | 474 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 1.33 | 0.94 | 0.38 | 0.94 | 1.38 | 0.35 | 1.38 | 1.29 | 0.35 | 1.27 | 1.14 | 0.29 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.1 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 70 | 1468 | 21 | 12 | 1253 | 58 | 0 | 0 | 14 | 0 | 0 | 56 |
| Future Vol, veh/h | 70 | 1468 | 21 | 12 | 1253 | 58 | 0 | 0 | 14 | 0 | 0 | 56 |
| Conflicting Peds, #/hr | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 265 | - | - | 265 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 76 | 1596 | 23 | 13 | 1362 | 63 | 0 | 0 | 15 | 0 | 0 | 61 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1430 | 0 | 0 | 1624 | 0 | 0 | - | - | 820 | - | - | 1372 |
| Stage 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Critical Hdwy | 4.13 | - | - | 4.13 | - | - | - | - | 6.93 | - | - | 6.23 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Follow-up Hdwy | 2.219 | - | - | 2.219 | - | - | - | - | 3.319 | - | - | 3.319 |
| Pot Cap-1 Maneuver | 473 | - | - | 398 | - | - | 0 | 0 | 319 | 0 | 0 | 178 |
| Stage 1 | - | - | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Stage 2 | - | - | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 471 | - | - | 396 | - | - | - | - | 316 | - | - | 176 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - | - | - | - | - | - | - |

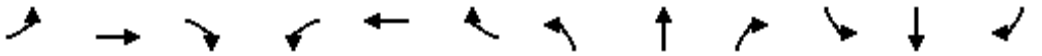
| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s | 0.6 | 0.1 | 17 | 35.9 |
| HCM LOS | | | C | E |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 316 | 471 | - | - | 396 | - | - | 176 |
| HCM Lane V/C Ratio | 0.048 | 0.162 | - | - | 0.033 | - | - | 0.346 |
| HCM Control Delay (s) | 17 | 14.1 | - | - | 14.4 | - | - | 35.9 |
| HCM Lane LOS | C | B | - | - | B | - | - | E |
| HCM 95th %tile Q(veh) | 0.2 | 0.6 | - | - | 0.1 | - | - | 1.4 |

7: Clovis Ave & Shepherd Ave Cumulative (Year 2045) Wi

HCM 6th Signalized Intersection Summary

12/15/2023

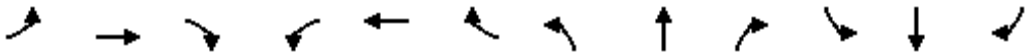


| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 224 | 921 | 170 | 291 | 934 | 202 | 234 | 724 | 374 | 170 | 306 | 187 |
| Future Volume (veh/h) | 224 | 921 | 170 | 291 | 934 | 202 | 234 | 724 | 374 | 170 | 306 | 187 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.98 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 243 | 1001 | 167 | 316 | 1015 | 217 | 254 | 787 | 372 | 185 | 333 | 186 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 317 | 1193 | 522 | 394 | 1273 | 557 | 292 | 1043 | 455 | 254 | 722 | 314 |
| Arrive On Green | 0.09 | 0.34 | 0.34 | 0.11 | 0.36 | 0.36 | 0.16 | 0.29 | 0.29 | 0.07 | 0.20 | 0.20 |
| Sat Flow, veh/h | 3456 | 3554 | 1554 | 3456 | 3554 | 1555 | 1781 | 3554 | 1552 | 3456 | 3554 | 1546 |
| Grp Volume(v), veh/h | 243 | 1001 | 167 | 316 | 1015 | 217 | 254 | 787 | 372 | 185 | 333 | 186 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1554 | 1728 | 1777 | 1555 | 1781 | 1777 | 1552 | 1728 | 1777 | 1546 |
| Q Serve(g_s), s | 6.7 | 25.3 | 7.8 | 8.7 | 24.9 | 10.1 | 13.5 | 19.5 | 21.6 | 5.1 | 8.0 | 10.6 |
| Cycle Q Clear(g_c), s | 6.7 | 25.3 | 7.8 | 8.7 | 24.9 | 10.1 | 13.5 | 19.5 | 21.6 | 5.1 | 8.0 | 10.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 317 | 1193 | 522 | 394 | 1273 | 557 | 292 | 1043 | 455 | 254 | 722 | 314 |
| V/C Ratio(X) | 0.77 | 0.84 | 0.32 | 0.80 | 0.80 | 0.39 | 0.87 | 0.75 | 0.82 | 0.73 | 0.46 | 0.59 |
| Avail Cap(c_a), veh/h | 427 | 1431 | 626 | 534 | 1541 | 674 | 422 | 1284 | 561 | 320 | 772 | 336 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 43.1 | 29.8 | 24.0 | 41.9 | 28.0 | 23.3 | 39.6 | 31.1 | 31.9 | 44.0 | 34.0 | 35.1 |
| Incr Delay (d2), s/veh | 5.8 | 4.0 | 0.4 | 6.2 | 2.5 | 0.4 | 12.8 | 2.1 | 7.6 | 6.1 | 0.5 | 2.5 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 3.0 | 10.5 | 2.7 | 3.8 | 10.1 | 3.5 | 6.7 | 8.1 | 8.4 | 2.3 | 3.3 | 4.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 48.8 | 33.8 | 24.4 | 48.1 | 30.5 | 23.7 | 52.4 | 33.2 | 39.5 | 50.1 | 34.5 | 37.5 |
| LnGrp LOS | D | C | C | D | C | C | D | C | D | D | C | D |
| Approach Vol, veh/h | | 1411 | | | 1548 | | | 1413 | | | 704 | |
| Approach Delay, s/veh | | 35.3 | | | 33.2 | | | 38.3 | | | 39.4 | |
| Approach LOS | | D | | | C | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 11.1 | 33.4 | 15.1 | 37.5 | 19.9 | 24.6 | 12.9 | 39.7 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 9.0 | 35.1 | 15.0 | 39.1 | 23.0 | 21.1 | 12.0 | 42.1 |
| Max Q Clear Time (g_c+I1), s | 7.1 | 23.6 | 10.7 | 27.3 | 15.5 | 12.6 | 8.7 | 26.9 |
| Green Ext Time (p_c), s | 0.1 | 4.9 | 0.4 | 5.3 | 0.4 | 1.7 | 0.2 | 6.3 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 36.0 |
| HCM 6th LOS | D |

Queues



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 243 | 1001 | 185 | 316 | 1015 | 220 | 254 | 787 | 407 | 185 | 333 | 203 |
| v/c Ratio | 0.67 | 0.85 | 0.31 | 0.72 | 0.81 | 0.32 | 0.79 | 0.77 | 0.73 | 0.65 | 0.50 | 0.45 |
| Control Delay | 57.7 | 42.2 | 10.8 | 56.0 | 37.6 | 4.9 | 60.7 | 41.2 | 29.8 | 61.1 | 43.4 | 9.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 57.7 | 42.2 | 10.8 | 56.0 | 37.6 | 4.9 | 60.7 | 41.2 | 29.8 | 61.1 | 43.4 | 9.2 |
| Queue Length 50th (ft) | 91 | 357 | 27 | 117 | 348 | 1 | 180 | 277 | 168 | 70 | 117 | 0 |
| Queue Length 95th (ft) | 135 | 448 | 82 | 167 | 437 | 52 | #287 | 350 | 289 | #117 | 167 | 65 |
| Internal Link Dist (ft) | | 1234 | | | 1233 | | | 1070 | | | 873 | |
| Turn Bay Length (ft) | 250 | | 50 | 250 | | 255 | 235 | | 65 | 255 | | 100 |
| Base Capacity (vph) | 393 | 1320 | 658 | 491 | 1422 | 751 | 388 | 1185 | 621 | 295 | 714 | 473 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.62 | 0.76 | 0.28 | 0.64 | 0.71 | 0.29 | 0.65 | 0.66 | 0.66 | 0.63 | 0.47 | 0.43 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Intersection | |
|---|---|
| Int Delay, s/veh | 1 |

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 72 | 100 | 956 | 587 | 1 |
| Future Vol, veh/h | 0 | 72 | 100 | 956 | 587 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | 0 | 100 | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 78 | 109 | 1039 | 638 | 1 |

| Major/Minor | Minor2 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | - | 320 | 639 | 0 | - | 0 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 0 | 676 | 941 | - | - | - |
| Stage 1 | 0 | - | - | - | - | - |
| Stage 2 | 0 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | - | 676 | 941 | - | - | - |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 11 | 0.9 | 0 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---|---|---|---|---|---|
| Capacity (veh/h) | 941 | - | 676 | - | - |
| HCM Lane V/C Ratio | 0.116 | - | 0.116 | - | - |
| HCM Control Delay (s) | 9.3 | - | 11 | - | - |
| HCM Lane LOS | A | - | B | - | - |
| HCM 95th %tile Q(veh) | 0.4 | - | 0.4 | - | - |

# APPENDIX D

## FLORIDA TABLE

# TABLE 8 Generalized **Peak Hour Directional** Volumes for Florida's Transitioning Areas **and** Areas Over 5,000 Not In Urbanized Areas[1]

January 2020

## INTERRUPTED FLOW FACILITIES

### STATE SIGNALIZED ARTERIALS

**Class I** (40 mph or higher posted speed limit)

| Lanes | Median | B | C | D | E |
|---|---|---|---|---|---|
| 1 | Undivided | * | 710 | 800 | ** |
| 2 | Divided | * | 1,740 | 1,820 | ** |
| 3 | Divided | * | 2,670 | 2,740 | ** |

**Class II** (35 mph or slower posted speed limit)

| Lanes | Median | B | C | D | E |
|---|---|---|---|---|---|
| 1 | Undivided | * | 330 | 680 | 720 |
| 2 | Divided | * | 500 | 1,460 | 1,600 |
| 3 | Divided | * | 810 | 2,280 | 2,420 |

### Non-State Signalized Roadway Adjustments

(Alter corresponding state volumes by the indicated percent.)

Non-State Signalized Roadways - 10%

### Median & Turn Lane Adjustments

| Lanes | Median | Exclusive Left Lanes | Exclusive Right Lanes | Adjustment Factors |
|---|---|---|---|---|
| 1 | Divided | Yes | No | +5% |
| 1 | Undivided | No | No | -20% |
| Multi | Undivided | Yes | No | -5% |
| Multi | Undivided | No | No | -25% |
| – | – | – | Yes | + 5% |

### One-Way Facility Adjustment

Multiply the corresponding directional volumes in this table by 1.2

### BICYCLE MODE[2]

(Multiply vehicle volumes shown below by number of directional roadway lanes to determine two-way maximum service volumes.)

| Paved Shoulder/Bicycle Lane Coverage | B | C | D | E |
|---|---|---|---|---|
| 0-49% | * | 140 | 320 | 1,000 |
| 50-84% | 100 | 280 | 940 | >1,000 |
| 85-100% | 380 | 1,000 | >1,000 | ** |

### PEDESTRIAN MODE[2]

(Multiply vehicle volumes shown below by number of directional roadway lanes to determine two-way maximum service volumes.)

| Sidewalk Coverage | B | C | D | E |
|---|---|---|---|---|
| 0-49% | * | * | 140 | 480 |
| 50-84% | * | 80 | 440 | 800 |
| 85-100% | 200 | 540 | 880 | >1,000 |

### BUS MODE (Scheduled Fixed Route)[3]

(Buses in peak hour in peak direction)

| Sidewalk Coverage | B | C | D | E |
|---|---|---|---|---|
| 0-84% | > 5 | ≥ 4 | ≥ 3 | ≥ 2 |
| 85-100% | > 4 | ≥ 3 | ≥ 2 | ≥ 1 |

## UNINTERRUPTED FLOW FACILITIES

### FREEWAYS

| Lanes | B | C | D | E |
|---|---|---|---|---|
| 2 | 2,430 | 3,180 | 3,790 | 3,910 |
| 3 | 3,520 | 4,670 | 5,610 | 5,870 |
| 4 | 4,630 | 6,170 | 7,440 | 7,830 |
| 5 | 5,480 | 7,310 | 8,730 | 9,800 |

### Freeway Adjustments

| Auxiliary Lane | Ramp Metering |
|---|---|
| + 1,000 | + 5% |

### UNINTERRUPTED FLOW HIGHWAYS

| Lanes | Median | B | C | D | E |
|---|---|---|---|---|---|
| 1 | Undivided | 560 | 860 | 1,160 | 1,560 |
| 2 | Divided | 1,710 | 2,470 | 3,120 | 3,550 |
| 3 | Divided | 2,560 | 3,700 | 4,680 | 5,320 |

### Uninterrupted Flow Highway Adjustments

| Lanes | Median | Exclusive left lanes | Adjustment factors |
|---|---|---|---|
| 1 | Divided | Yes | +5% |
| Multi | Undivided | Yes | -5% |
| Multi | Undivided | No | -25% |

[1] Values shown are presented as peak hour directional volumes for levels of service and are for the automobile/truck modes unless specifically stated. This table does not constitute a standard and should be used only for general planning applications. The computer models from which this table is derived should be used for more specific planning applications. The table and deriving computer models should not be used for corridor or intersection design, where more refined techniques exist. Calculations are based on planning applications of the HCM and the Transit Capacity and Quality of Service Manual.

[2] Level of service for the bicycle and pedestrian modes in this table is based on number of vehicles, not number of bicyclists or pedestrians using the facility.

[3] Buses per hour shown are only for the peak hour in the single direction of the higher traffic flow.

* Cannot be achieved using table input value defaults.

** Not applicable for that level of service letter grade. For the automobile mode, volumes greater than level of service D become F because intersection capacities have been reached. For the bicycle mode, the level of service letter grade (including F) is not achievable because there is no maximum vehicle volume threshold using table input value defaults.

*Source:*
Florida Department of Transportation
Systems Implementation Office
https://www.fdot.gov/planning/systems/

TABLE 8
(continued)

# Generalized **Peak Hour Directional** Volumes for Florida's Transitioning Areas **and** Areas Over 5,000 Not In Urbanized Areas

January 2020

| INPUT VALUE ASSUMPTIONS | Uninterrupted Flow Facilities | | | Interrupted Flow Facilities | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | State Arterials | | | | Class I | |
| | Freeways | Highways | | Class I | | Class II | | Bicycle | Pedestrian |
| **ROADWAY CHARACTERISTICS** | | | | | | | | | |
| Area type (urban, rural) | urban | | | | | | | | |
| Number of through lanes (both dir.) | 4-10 | 2 | 4-6 | 2 | 4-6 | 2 | 4-6 | 4 | 4 |
| Posted speed (mph) | 70 | 50 | 50 | 45 | 50 | 30 | 30 | 45 | 45 |
| Free flow speed (mph) | 75 | 55 | 55 | 50 | 55 | 35 | 35 | 50 | 50 |
| Auxiliary lanes (n,y) | n | | | | | | | | |
| Median (d, n, nr, r) | | | d | n | y | n | y | r | r |
| Terrain (l,r) | l | l | l | l | l | l | l | l | l |
| % no passing zone | | 60 | | | | | | | |
| Exclusive left turn lane impact (n, y) | | [n] | y | y | y | y | y | y | y |
| Exclusive right turn lanes (n, y) | | | | n | n | n | n | n | n |
| Facility length (mi) | 6 | 5 | 5 | 1.8 | 2 | 2 | 2 | 2 | 2 |
| **TRAFFIC CHARACTERISTICS** | | | | | | | | | |
| Planning analysis hour factor (K) | 0.098 | 0.090 | 0.090 | 0.090 | 0.090 | 0.090 | 0.090 | 0.090 | 0.090 |
| Directional distribution factor (D) | 0.55 | 0.55 | 0.55 | 0.550 | 0.570 | 0.570 | 0.565 | 0.570 | 0.570 |
| Peak hour factor (PHF) | 0.92 | 0.92 | 0.92 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Base saturation flow rate (pcphpl) | 2,400 | 1,700 | 2,200 | 1,950 | 1,950 | 1,950 | 1,950 | 1,950 | 1,950 |
| Heavy vehicle percent | 9.0 | 4.0 | 4.0 | 2.0 | 3.0 | 2.0 | 3.0 | 3.0 | 3.0 |
| Speed Adjustment Factor (SAF) | 0.975 | | 0.975 | | | | | | |
| Capacity Adjustment Factor (CAF) | 0.968 | | 0.968 | | | | | | |
| % left turns | | | | 12 | 12 | 12 | 12 | 12 | 12 |
| % right turns | | | | 12 | 12 | 12 | 12 | 12 | 12 |
| **CONTROL CHARACTERISTICS** | | | | | | | | | |
| Number of signals | | | | 5 | 4 | 10 | 10 | 4 | 6 |
| Arrival type (1-6) | | | | 4 | 3 | 4 | 4 | 4 | 4 |
| Signal type (a, c, p) | | | | c | c | c | c | c | c |
| Cycle length (C) | | | | 120 | 150 | 120 | 150 | 120 | 120 |
| Effective green ratio (g/C) | | | | 0.44 | 0.45 | 0.44 | 0.45 | 0.44 | 0.44 |
| **MULTIMODAL CHARACTERISTICS** | | | | | | | | | |
| Paved shoulder/bicycle lane (n, y) | | | | | | | | n, 50%, y | n |
| Outside lane width (n, t, w) | | | | | | | | t | t |
| Pavement condition (d, t, u) | | | | | | | | t | |
| On-street parking (n, y) | | | | | | | | n | n |
| Sidewalk (n, y) | | | | | | | | | n, 50%, y |
| Sidewalk/roadway separation (a, t, w) | | | | | | | | | t |
| Sidewalk protective barrier (n, y) | | | | | | | | | n |

**LEVEL OF SERVICE THRESHOLDS**

| Level of Service | Freeways | Highways | | Arterials | | Bicycle | Ped | Bus |
|---|---|---|---|---|---|---|---|---|
| | Density | Two-Lane %ffs | Multilane Density | Class I ats | Class II ats | Score | Score | Buses/hr. |
| B | ≤ 17 | > 83.3 | ≤ 17 | > 31 mph | > 22 mph | ≤ 2.75 | ≤ 2.75 | ≤ 6 |
| C | ≤ 24 | > 75.0 | ≤ 24 | > 23 mph | > 17 mph | ≤ 3.50 | ≤ 3.50 | ≤ 4 |
| D | ≤ 31 | > 66.7 | ≤ 31 | > 18 mph | > 13 mph | ≤ 4.25 | ≤ 4.25 | < 3 |
| E | ≤ 39 | > 58.3 | ≤ 35 | > 15 mph | > 10 mph | ≤ 5.00 | ≤ 5.00 | < 2 |

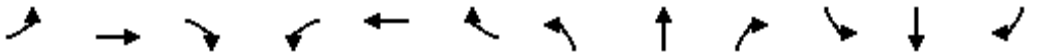
% ffs = Percent free flow speed ats = Average travel speed

# APPENDIX E

## IMPROVED INTERSECTION ANALYSES

PETERS ENGINEERING GROUP
A CALIFORNIA CORPORATION

4: Minnewawa Ave & Behymer Ave — Existing Plus Project
HCM 6th Signalized Intersection Summary
12/21/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 2 | 150 | 70 | 6 | 198 | 244 | 108 | 236 | 9 | 133 | 230 | 1 |
| Future Volume (veh/h) | 2 | 150 | 70 | 6 | 198 | 244 | 108 | 236 | 9 | 133 | 230 | 1 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.97 | 1.00 | | 0.97 | 1.00 | | 0.96 | 1.00 | | 0.96 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 2 | 155 | 72 | 6 | 204 | 252 | 111 | 243 | 9 | 137 | 237 | 1 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 92 | 413 | 190 | 93 | 260 | 314 | 158 | 377 | 14 | 177 | 412 | 2 |
| Arrive On Green | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.09 | 0.21 | 0.21 | 0.10 | 0.22 | 0.22 |
| Sat Flow, veh/h | 3 | 1194 | 549 | 6 | 751 | 909 | 1781 | 1789 | 66 | 1781 | 1861 | 8 |
| Grp Volume(v), veh/h | 229 | 0 | 0 | 462 | 0 | 0 | 111 | 0 | 252 | 137 | 0 | 238 |
| Grp Sat Flow(s),veh/h/ln | 1746 | 0 | 0 | 1667 | 0 | 0 | 1781 | 0 | 1855 | 1781 | 0 | 1869 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 2.4 | 0.0 | 5.0 | 3.0 | 0.0 | 4.6 |
| Cycle Q Clear(g_c), s | 4.0 | 0.0 | 0.0 | 10.0 | 0.0 | 0.0 | 2.4 | 0.0 | 5.0 | 3.0 | 0.0 | 4.6 |
| Prop In Lane | 0.01 | | 0.31 | 0.01 | | 0.55 | 1.00 | | 0.04 | 1.00 | | 0.00 |
| Lane Grp Cap(c), veh/h | 694 | 0 | 0 | 667 | 0 | 0 | 158 | 0 | 391 | 177 | 0 | 414 |
| V/C Ratio(X) | 0.33 | 0.00 | 0.00 | 0.69 | 0.00 | 0.00 | 0.70 | 0.00 | 0.64 | 0.77 | 0.00 | 0.57 |
| Avail Cap(c_a), veh/h | 921 | 0 | 0 | 884 | 0 | 0 | 311 | 0 | 884 | 355 | 0 | 937 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 9.9 | 0.0 | 0.0 | 11.9 | 0.0 | 0.0 | 17.8 | 0.0 | 14.5 | 17.6 | 0.0 | 13.9 |
| Incr Delay (d2), s/veh | 0.3 | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 | 5.6 | 0.0 | 1.8 | 7.0 | 0.0 | 1.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.0 | 0.0 | 0.0 | 2.7 | 0.0 | 0.0 | 1.0 | 0.0 | 1.6 | 1.3 | 0.0 | 1.5 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 10.2 | 0.0 | 0.0 | 13.4 | 0.0 | 0.0 | 23.4 | 0.0 | 16.2 | 24.7 | 0.0 | 15.2 |
| LnGrp LOS | B | A | A | B | A | A | C | A | B | C | A | B |
| Approach Vol, veh/h | | 229 | | | 462 | | | 363 | | | 375 | |
| Approach Delay, s/veh | | 10.2 | | | 13.4 | | | 18.4 | | | 18.6 | |
| Approach LOS | | B | | | B | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 8.0 | 13.4 | | 18.8 | 7.5 | 13.8 | | 18.8 | | | | |
| Change Period (Y+Rc), s | 4.0 | 4.9 | | 4.9 | 4.0 | 4.9 | | 4.9 | | | | |
| Max Green Setting (Gmax), s | 8.0 | 19.1 | | 19.1 | 7.0 | 20.1 | | 19.1 | | | | |
| Max Q Clear Time (g_c+I1), s | 5.0 | 7.0 | | 6.0 | 4.4 | 6.6 | | 12.0 | | | | |
| Green Ext Time (p_c), s | 0.1 | 0.9 | | 0.9 | 0.1 | 0.9 | | 1.6 | | | | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 6th Ctrl Delay | | 15.5 | |
| HCM 6th LOS | | B | |

| Lane Group | EBT | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 229 | 462 | 111 | 252 | 137 | 238 |
| v/c Ratio | 0.38 | 0.74 | 0.41 | 0.53 | 0.45 | 0.47 |
| Control Delay | 13.6 | 21.2 | 27.7 | 20.9 | 27.7 | 19.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 13.6 | 21.2 | 27.7 | 20.9 | 27.7 | 19.2 |
| Queue Length 50th (ft) | 41 | 89 | 31 | 65 | 38 | 60 |
| Queue Length 95th (ft) | 100 | #242 | #88 | 127 | #105 | 117 |
| Internal Link Dist (ft) | 5395 | 1520 | | 2614 | | 2532 |
| Turn Bay Length (ft) | | | | | | |
| Base Capacity (vph) | 814 | 817 | 292 | 836 | 334 | 882 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.28 | 0.57 | 0.38 | 0.30 | 0.41 | 0.27 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

4: Minnewawa Ave & Behymer Ave — Existing Plus Project
HCM 6th Signalized Intersection Summary
12/21/2023

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 3 | 184 | 57 | 5 | 173 | 191 | 72 | 226 | 16 | 164 | 209 | 6 |
| Future Volume (veh/h) | 3 | 184 | 57 | 5 | 173 | 191 | 72 | 226 | 16 | 164 | 209 | 6 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.97 | 1.00 | | 0.97 | 1.00 | | 0.96 | 1.00 | | 0.96 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 3 | 211 | 66 | 6 | 199 | 220 | 83 | 260 | 18 | 189 | 240 | 7 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 87 | 428 | 132 | 88 | 253 | 274 | 131 | 381 | 26 | 243 | 513 | 15 |
| Arrive On Green | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.07 | 0.22 | 0.22 | 0.14 | 0.28 | 0.28 |
| Sat Flow, veh/h | 5 | 1351 | 418 | 7 | 800 | 867 | 1781 | 1724 | 119 | 1781 | 1806 | 53 |
| Grp Volume(v), veh/h | 280 | 0 | 0 | 425 | 0 | 0 | 83 | 0 | 278 | 189 | 0 | 247 |
| Grp Sat Flow(s),veh/h/ln | 1774 | 0 | 0 | 1674 | 0 | 0 | 1781 | 0 | 1843 | 1781 | 0 | 1859 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 1.9 | 0.0 | 5.9 | 4.3 | 0.0 | 4.6 |
| Cycle Q Clear(g_c), s | 5.4 | 0.0 | 0.0 | 9.8 | 0.0 | 0.0 | 1.9 | 0.0 | 5.9 | 4.3 | 0.0 | 4.6 |
| Prop In Lane | 0.01 | | 0.24 | 0.01 | | 0.52 | 1.00 | | 0.06 | 1.00 | | 0.03 |
| Lane Grp Cap(c), veh/h | 648 | 0 | 0 | 616 | 0 | 0 | 131 | 0 | 408 | 243 | 0 | 528 |
| V/C Ratio(X) | 0.43 | 0.00 | 0.00 | 0.69 | 0.00 | 0.00 | 0.63 | 0.00 | 0.68 | 0.78 | 0.00 | 0.47 |
| Avail Cap(c_a), veh/h | 842 | 0 | 0 | 800 | 0 | 0 | 298 | 0 | 809 | 399 | 0 | 921 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 11.7 | 0.0 | 0.0 | 13.2 | 0.0 | 0.0 | 19.1 | 0.0 | 15.1 | 17.7 | 0.0 | 12.5 |
| Incr Delay (d2), s/veh | 0.5 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 5.0 | 0.0 | 2.0 | 5.3 | 0.0 | 0.6 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.6 | 0.0 | 0.0 | 2.8 | 0.0 | 0.0 | 0.8 | 0.0 | 2.0 | 1.7 | 0.0 | 1.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 12.2 | 0.0 | 0.0 | 14.9 | 0.0 | 0.0 | 24.1 | 0.0 | 17.1 | 23.0 | 0.0 | 13.2 |
| LnGrp LOS | B | A | A | B | A | A | C | A | B | C | A | B |
| Approach Vol, veh/h | | 280 | | | 425 | | | 361 | | | 436 | |
| Approach Delay, s/veh | | 12.2 | | | 14.9 | | | 18.7 | | | 17.4 | |
| Approach LOS | | B | | | B | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 9.8 | 14.3 | | 18.3 | 7.1 | 16.9 | | 18.3 | | | | |
| Change Period (Y+Rc), s | 4.0 | 4.9 | | 4.9 | 4.0 | 4.9 | | 4.9 | | | | |
| Max Green Setting (Gmax), s | 9.5 | 18.6 | | 18.1 | 7.1 | 21.0 | | 18.1 | | | | |
| Max Q Clear Time (g_c+I1), s | 6.3 | 7.9 | | 7.4 | 3.9 | 6.6 | | 11.8 | | | | |
| Green Ext Time (p_c), s | 0.1 | 1.0 | | 1.1 | 0.0 | 1.0 | | 1.3 | | | | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 6th Ctrl Delay | | 16.1 | |
| HCM 6th LOS | | B | |

| Lane Group | EBT | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 280 | 425 | 83 | 278 | 189 | 247 |
| v/c Ratio | 0.49 | 0.73 | 0.32 | 0.56 | 0.55 | 0.38 |
| Control Delay | 17.6 | 22.2 | 26.5 | 21.4 | 29.8 | 15.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 17.6 | 22.2 | 26.5 | 21.4 | 29.8 | 15.5 |
| Queue Length 50th (ft) | 62 | 89 | 24 | 75 | 55 | 61 |
| Queue Length 95th (ft) | 131 | #217 | 63 | 134 | #138 | 112 |
| Internal Link Dist (ft) | 5395 | 1520 | | 2614 | | 2532 |
| Turn Bay Length (ft) | | | 250 | | 250 | |
| Base Capacity (vph) | 744 | 747 | 284 | 778 | 380 | 904 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.38 | 0.57 | 0.29 | 0.36 | 0.50 | 0.27 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Warrant 3: Peak Hour

**4: Minnewawa Ave & Behymer Ave Existing Plus Proj**

**Intersection Information:**

| | Major Street | Minor Street |
|---|---|---|
| **Street Name** | Minnewawa Ave | Behymer Ave |
| **Direction** | NB/SB | EB/WB |
| **Number of Lanes** | 1 | 1 |
| **Approach Speed** | 50 | 45 |

**Warrant 3 Met?** Yes

**Details**

**Low Population?** No

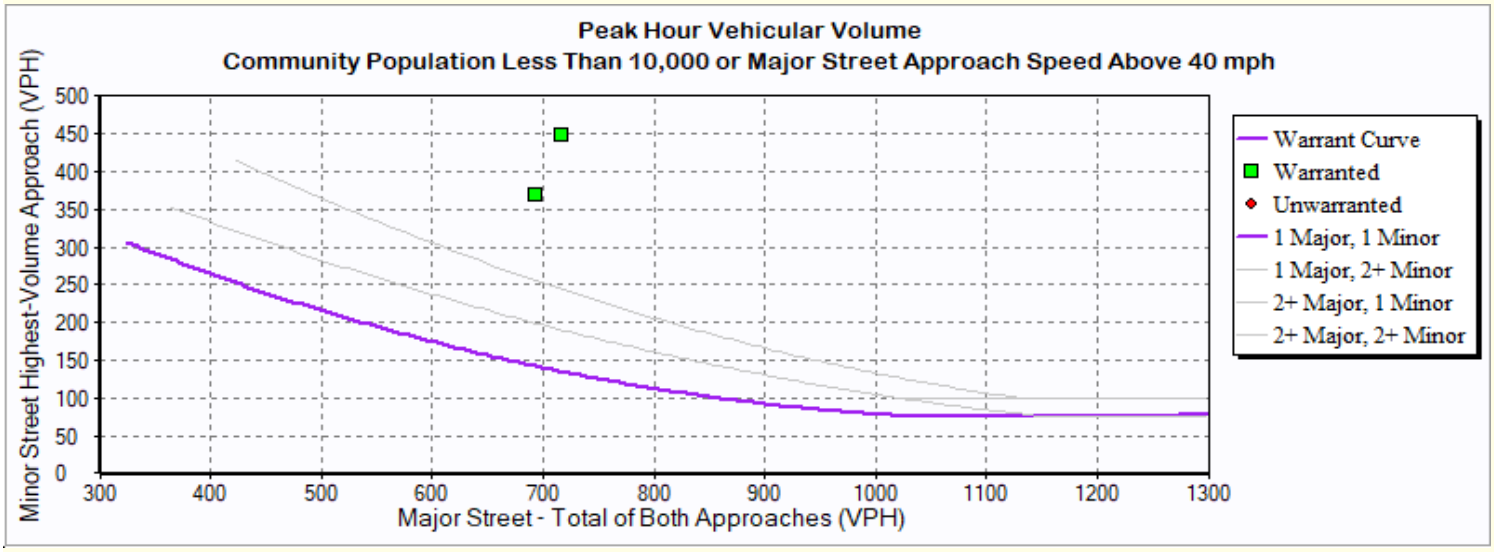
**Condition A Met?** No

**Notes** 0 Hours met (1 required)

**Condition B Met?** Yes

**Notes** 2 Hours met (1 required)

| | |
|---|---|
| Minor Approach Time Delay Condition Met? | Not Met |
| Minor Approach Volume Condition Met? | Met |
| Total Entering Intersection Volume Condition Met? | Not Met |



# Warrant 3: Peak Hour

**4: Minnewawa Ave & Behymer Ave Existing Plus Proj**

| Hour | Major Street<br>Total All Approaches (vph) | Minor Street<br>Highest Volume Approach (vph) |
|---|---|---|
| 7:15 | 717 | 448 |
| 17:00 | 693 | 369 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 23.2 |
| Intersection LOS | C |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 5 | 0 | 104 | 0 | 1 | 0 | 330 | 239 | 0 | 0 | 285 | 5 |
| Future Vol, veh/h | 5 | 0 | 104 | 0 | 1 | 0 | 330 | 239 | 0 | 0 | 285 | 5 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 6 | 0 | 120 | 0 | 1 | 0 | 379 | 275 | 0 | 0 | 328 | 6 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 10.1 | 9.7 | 31.1 | 12.6 |
| HCM LOS | B | A | D | B |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 58% | 5% | 0% | 0% |
| Vol Thru, % | 42% | 0% | 100% | 98% |
| Vol Right, % | 0% | 95% | 0% | 2% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 569 | 109 | 1 | 290 |
| LT Vol | 330 | 5 | 0 | 0 |
| Through Vol | 239 | 0 | 1 | 285 |
| RT Vol | 0 | 104 | 0 | 5 |
| Lane Flow Rate | 654 | 125 | 1 | 333 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.869 | 0.198 | 0.002 | 0.474 |
| Departure Headway (Hd) | 4.786 | 5.697 | 6.619 | 5.115 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 746 | 633 | 542 | 710 |
| Service Time | 2.879 | 3.71 | 4.642 | 3.115 |
| HCM Lane V/C Ratio | 0.877 | 0.197 | 0.002 | 0.469 |
| HCM Control Delay | 31.1 | 10.1 | 9.7 | 12.6 |
| HCM Lane LOS | D | B | A | B |
| HCM 95th-tile Q | 10.6 | 0.7 | 0 | 2.6 |

4: Minnewawa Ave & Behymer Ave — Near-Term With Project-

HCM 6th Signalized Intersection Summary

12/20/2023

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 3 | 162 | 72 | 18 | 222 | 316 | 111 | 271 | 13 | 139 | 255 | 3 |
| Future Volume (veh/h) | 3 | 162 | 72 | 18 | 222 | 316 | 111 | 271 | 13 | 139 | 255 | 3 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.97 | 1.00 | | 0.96 | 1.00 | | 0.96 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 3 | 167 | 74 | 19 | 229 | 326 | 114 | 279 | 13 | 143 | 263 | 3 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 78 | 474 | 207 | 87 | 268 | 363 | 146 | 391 | 18 | 182 | 445 | 5 |
| Arrive On Green | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.08 | 0.22 | 0.22 | 0.10 | 0.24 | 0.24 |
| Sat Flow, veh/h | 5 | 1225 | 535 | 22 | 691 | 938 | 1781 | 1769 | 82 | 1781 | 1845 | 21 |
| Grp Volume(v), veh/h | 244 | 0 | 0 | 574 | 0 | 0 | 114 | 0 | 292 | 143 | 0 | 266 |
| Grp Sat Flow(s),veh/h/ln | 1764 | 0 | 0 | 1652 | 0 | 0 | 1781 | 0 | 1852 | 1781 | 0 | 1866 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 4.7 | 0.0 | 0.0 | 3.0 | 0.0 | 7.0 | 3.7 | 0.0 | 6.0 |
| Cycle Q Clear(g_c), s | 4.7 | 0.0 | 0.0 | 15.5 | 0.0 | 0.0 | 3.0 | 0.0 | 7.0 | 3.7 | 0.0 | 6.0 |
| Prop In Lane | 0.01 | | 0.30 | 0.03 | | 0.57 | 1.00 | | 0.04 | 1.00 | | 0.01 |
| Lane Grp Cap(c), veh/h | 759 | 0 | 0 | 717 | 0 | 0 | 146 | 0 | 409 | 182 | 0 | 450 |
| V/C Ratio(X) | 0.32 | 0.00 | 0.00 | 0.80 | 0.00 | 0.00 | 0.78 | 0.00 | 0.71 | 0.78 | 0.00 | 0.59 |
| Avail Cap(c_a), veh/h | 820 | 0 | 0 | 774 | 0 | 0 | 224 | 0 | 781 | 224 | 0 | 787 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 10.4 | 0.0 | 0.0 | 13.7 | 0.0 | 0.0 | 21.5 | 0.0 | 17.2 | 20.9 | 0.0 | 16.0 |
| Incr Delay (d2), s/veh | 0.2 | 0.0 | 0.0 | 5.6 | 0.0 | 0.0 | 9.2 | 0.0 | 2.3 | 13.6 | 0.0 | 1.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.3 | 0.0 | 0.0 | 5.1 | 0.0 | 0.0 | 1.4 | 0.0 | 2.5 | 1.9 | 0.0 | 2.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 10.6 | 0.0 | 0.0 | 19.3 | 0.0 | 0.0 | 30.7 | 0.0 | 19.5 | 34.5 | 0.0 | 17.2 |
| LnGrp LOS | B | A | A | B | A | A | C | A | B | C | A | B |
| Approach Vol, veh/h | | 244 | | | 574 | | | 406 | | | 409 | |
| Approach Delay, s/veh | | 10.6 | | | 19.3 | | | 22.6 | | | 23.3 | |
| Approach LOS | | B | | | B | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 8.9 | 15.4 | | 23.3 | 7.9 | 16.4 | | 23.3 | | | | |
| Change Period (Y+Rc), s | 4.0 | 4.9 | | 4.9 | 4.0 | 4.9 | | 4.9 | | | | |
| Max Green Setting (Gmax), s | 6.0 | 20.1 | | 20.1 | 6.0 | 20.1 | | 20.1 | | | | |
| Max Q Clear Time (g_c+I1), s | 5.7 | 9.0 | | 6.7 | 5.0 | 8.0 | | 17.5 | | | | |
| Green Ext Time (p_c), s | 0.0 | 1.1 | | 1.0 | 0.0 | 1.0 | | 0.9 | | | | |

| Intersection Summary | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HCM 6th Ctrl Delay | | | 19.8 | | | | | | | | | |
| HCM 6th LOS | | | B | | | | | | | | | |

4: Minnewawa Ave & Behymer Ave Near-Term With Project-
Queues

12/20/2023

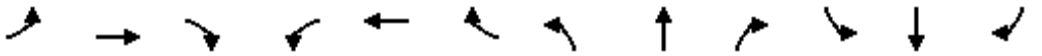


| Lane Group | EBT | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 244 | 574 | 114 | 292 | 143 | 266 |
| v/c Ratio | 0.37 | 0.85 | 0.55 | 0.62 | 0.69 | 0.47 |
| Control Delay | 13.0 | 28.4 | 37.1 | 23.1 | 46.2 | 19.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 13.0 | 28.4 | 37.1 | 23.1 | 46.2 | 19.6 |
| Queue Length 50th (ft) | 44 | 124 | 35 | 80 | 45 | 73 |
| Queue Length 95th (ft) | 106 | #336 | #105 | 143 | #136 | 131 |
| Internal Link Dist (ft) | 5395 | 1520 | | 2614 | | 2532 |
| Turn Bay Length (ft) | | | | | | |
| Base Capacity (vph) | 714 | 722 | 206 | 725 | 206 | 728 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.34 | 0.80 | 0.55 | 0.40 | 0.69 | 0.37 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

5: Minnewawa Ave & Shepherd Ave Near-Term With Project-
HCM 6th Signalized Intersection Summary
12/20/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 93 | 643 | 241 | 228 | 881 | 186 | 191 | 265 | 86 | 199 | 365 | 141 |
| Future Volume (veh/h) | 93 | 643 | 241 | 228 | 881 | 186 | 191 | 265 | 86 | 199 | 365 | 141 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.97 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 99 | 684 | 239 | 243 | 937 | 114 | 203 | 282 | 82 | 212 | 388 | 137 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 127 | 953 | 416 | 292 | 1148 | 140 | 248 | 588 | 255 | 257 | 606 | 263 |
| Arrive On Green | 0.07 | 0.27 | 0.27 | 0.16 | 0.36 | 0.36 | 0.14 | 0.17 | 0.17 | 0.14 | 0.17 | 0.17 |
| Sat Flow, veh/h | 1781 | 3554 | 1551 | 1781 | 3182 | 387 | 1781 | 3554 | 1541 | 1781 | 3554 | 1542 |
| Grp Volume(v), veh/h | 99 | 684 | 239 | 243 | 523 | 528 | 203 | 282 | 82 | 212 | 388 | 137 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1777 | 1551 | 1781 | 1777 | 1792 | 1781 | 1777 | 1541 | 1781 | 1777 | 1542 |
| Q Serve(g_s), s | 3.8 | 12.0 | 9.2 | 9.1 | 18.4 | 18.4 | 7.6 | 5.0 | 3.2 | 8.0 | 7.0 | 5.6 |
| Cycle Q Clear(g_c), s | 3.8 | 12.0 | 9.2 | 9.1 | 18.4 | 18.4 | 7.6 | 5.0 | 3.2 | 8.0 | 7.0 | 5.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.22 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 127 | 953 | 416 | 292 | 641 | 646 | 248 | 588 | 255 | 257 | 606 | 263 |
| V/C Ratio(X) | 0.78 | 0.72 | 0.57 | 0.83 | 0.82 | 0.82 | 0.82 | 0.48 | 0.32 | 0.82 | 0.64 | 0.52 |
| Avail Cap(c_a), veh/h | 181 | 1129 | 493 | 419 | 802 | 808 | 336 | 1088 | 472 | 336 | 1088 | 472 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 31.5 | 22.9 | 21.8 | 27.9 | 20.0 | 20.0 | 28.8 | 26.1 | 25.4 | 28.6 | 26.6 | 26.0 |
| Incr Delay (d2), s/veh | 12.8 | 1.8 | 1.3 | 9.4 | 5.3 | 5.3 | 11.0 | 0.6 | 0.7 | 12.0 | 1.1 | 1.6 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.9 | 4.6 | 3.0 | 4.2 | 7.2 | 7.3 | 3.7 | 1.9 | 1.1 | 3.9 | 2.7 | 1.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 44.3 | 24.7 | 23.1 | 37.3 | 25.3 | 25.3 | 39.8 | 26.7 | 26.1 | 40.7 | 27.8 | 27.6 |
| LnGrp LOS | D | C | C | D | C | C | D | C | C | D | C | C |
| Approach Vol, veh/h | | 1022 | | | 1294 | | | 567 | | | 737 | |
| Approach Delay, s/veh | | 26.2 | | | 27.5 | | | 31.3 | | | 31.4 | |
| Approach LOS | | C | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 14.0 | 16.3 | 15.3 | 23.4 | 13.6 | 16.7 | 8.9 | 29.8 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 13.0 | 21.1 | 16.2 | 21.9 | 13.0 | 21.1 | 7.0 | 31.1 |
| Max Q Clear Time (g_c+I1), s | 10.0 | 7.0 | 11.1 | 14.0 | 9.6 | 9.0 | 5.8 | 20.4 |
| Green Ext Time (p_c), s | 0.2 | 1.5 | 0.3 | 3.1 | 0.2 | 2.1 | 0.0 | 4.5 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 28.5 |
| HCM 6th LOS | C |



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 99 | 684 | 256 | 243 | 1135 | 203 | 282 | 91 | 212 | 388 | 150 |
| v/c Ratio | 0.64 | 0.75 | 0.49 | 0.75 | 0.84 | 0.75 | 0.44 | 0.22 | 0.77 | 0.60 | 0.36 |
| Control Delay | 59.2 | 34.6 | 13.8 | 48.7 | 30.9 | 52.9 | 32.2 | 1.3 | 54.6 | 35.1 | 6.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 59.2 | 34.6 | 13.8 | 48.7 | 30.9 | 52.9 | 32.2 | 1.3 | 54.6 | 35.1 | 6.5 |
| Queue Length 50th (ft) | 51 | 171 | 36 | 119 | 276 | 102 | 70 | 0 | 107 | 100 | 0 |
| Queue Length 95th (ft) | #135 | 255 | 112 | #243 | #452 | #224 | 106 | 2 | #237 | 144 | 38 |
| Internal Link Dist (ft) | | 2560 | | | 1263 | | 2631 | | | 2555 | |
| Turn Bay Length (ft) | 250 | | 45 | 250 | | 250 | | | 255 | | 25 |
| Base Capacity (vph) | 155 | 989 | 553 | 360 | 1360 | 289 | 939 | 533 | 289 | 939 | 533 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.64 | 0.69 | 0.46 | 0.68 | 0.83 | 0.70 | 0.30 | 0.17 | 0.73 | 0.41 | 0.28 |

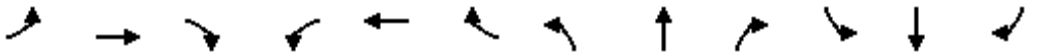
Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

7: Clovis Ave & Shepherd Ave — Near-Term With Project-

HCM 6th Signalized Intersection Summary

12/20/2023



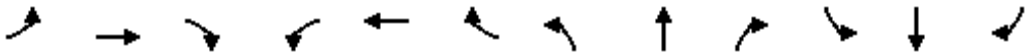
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 117 | 611 | 166 | 202 | 853 | 68 | 185 | 155 | 81 | 161 | 329 | 173 |
| Future Volume (veh/h) | 117 | 611 | 166 | 202 | 853 | 68 | 185 | 155 | 81 | 161 | 329 | 173 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.97 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 131 | 687 | 165 | 227 | 958 | 75 | 208 | 174 | 84 | 181 | 370 | 169 |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 248 | 1219 | 533 | 344 | 1317 | 576 | 321 | 671 | 292 | 287 | 636 | 276 |
| Arrive On Green | 0.07 | 0.34 | 0.34 | 0.10 | 0.37 | 0.37 | 0.09 | 0.19 | 0.19 | 0.08 | 0.18 | 0.18 |
| Sat Flow, veh/h | 3456 | 3554 | 1554 | 3456 | 3554 | 1555 | 3456 | 3554 | 1544 | 3456 | 3554 | 1543 |
| Grp Volume(v), veh/h | 131 | 687 | 165 | 227 | 958 | 75 | 208 | 174 | 84 | 181 | 370 | 169 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1554 | 1728 | 1777 | 1555 | 1728 | 1777 | 1544 | 1728 | 1777 | 1543 |
| Q Serve(g_s), s | 2.3 | 9.8 | 4.9 | 3.9 | 14.5 | 2.0 | 3.6 | 2.6 | 2.9 | 3.2 | 5.9 | 6.3 |
| Cycle Q Clear(g_c), s | 2.3 | 9.8 | 4.9 | 3.9 | 14.5 | 2.0 | 3.6 | 2.6 | 2.9 | 3.2 | 5.9 | 6.3 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 248 | 1219 | 533 | 344 | 1317 | 576 | 321 | 671 | 292 | 287 | 636 | 276 |
| V/C Ratio(X) | 0.53 | 0.56 | 0.31 | 0.66 | 0.73 | 0.13 | 0.65 | 0.26 | 0.29 | 0.63 | 0.58 | 0.61 |
| Avail Cap(c_a), veh/h | 499 | 2058 | 900 | 721 | 2286 | 1000 | 665 | 1260 | 547 | 610 | 1203 | 522 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 27.9 | 16.7 | 15.1 | 27.0 | 16.9 | 13.0 | 27.3 | 21.6 | 21.7 | 27.7 | 23.5 | 23.6 |
| Incr Delay (d2), s/veh | 1.7 | 0.4 | 0.3 | 2.2 | 0.8 | 0.1 | 2.2 | 0.2 | 0.5 | 2.3 | 0.8 | 2.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.9 | 3.3 | 1.4 | 1.5 | 4.8 | 0.6 | 1.4 | 1.0 | 1.0 | 1.3 | 2.3 | 2.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 29.6 | 17.1 | 15.4 | 29.2 | 17.7 | 13.1 | 29.5 | 21.8 | 22.2 | 29.9 | 24.3 | 25.8 |
| LnGrp LOS | C | B | B | C | B | B | C | C | C | C | C | C |
| Approach Vol, veh/h | | 983 | | | 1260 | | | 466 | | | 720 | |
| Approach Delay, s/veh | | 18.5 | | | 19.5 | | | 25.3 | | | 26.1 | |
| Approach LOS | | B | | | B | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 9.2 | 16.7 | 10.2 | 26.3 | 9.8 | 16.1 | 8.5 | 28.0 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 11.0 | 22.1 | 13.0 | 36.1 | 12.0 | 21.1 | 9.0 | 40.1 |
| Max Q Clear Time (g_c+I1), s | 5.2 | 4.9 | 5.9 | 11.8 | 5.6 | 8.3 | 4.3 | 16.5 |
| Green Ext Time (p_c), s | 0.3 | 1.1 | 0.4 | 4.9 | 0.3 | 2.2 | 0.1 | 6.6 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 21.4 |
| HCM 6th LOS | C |

7: Clovis Ave & Shepherd Ave Near-Term With Project-
Queues

12/20/2023



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 131 | 687 | 187 | 227 | 958 | 76 | 208 | 174 | 91 | 181 | 370 | 194 |
| v/c Ratio | 0.38 | 0.59 | 0.32 | 0.50 | 0.75 | 0.12 | 0.48 | 0.26 | 0.24 | 0.45 | 0.57 | 0.44 |
| Control Delay | 40.8 | 25.3 | 11.4 | 38.9 | 27.1 | 2.1 | 39.4 | 30.4 | 6.6 | 39.8 | 35.1 | 8.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 40.8 | 25.3 | 11.4 | 38.9 | 27.1 | 2.1 | 39.4 | 30.4 | 6.6 | 39.8 | 35.1 | 8.6 |
| Queue Length 50th (ft) | 32 | 150 | 28 | 56 | 219 | 0 | 51 | 40 | 0 | 44 | 91 | 0 |
| Queue Length 95th (ft) | 70 | 233 | 83 | 107 | 324 | 14 | 100 | 77 | 30 | 90 | 154 | 55 |
| Internal Link Dist (ft) | | 1234 | | | 1233 | | | 1070 | | | 873 | |
| Turn Bay Length (ft) | 250 | | 50 | 250 | | 255 | 235 | | 65 | 255 | | 100 |
| Base Capacity (vph) | 399 | 1652 | 780 | 577 | 1836 | 854 | 532 | 1012 | 518 | 488 | 966 | 562 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.33 | 0.42 | 0.24 | 0.39 | 0.52 | 0.09 | 0.39 | 0.17 | 0.18 | 0.37 | 0.38 | 0.35 |

Intersection Summary

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 14.8 |
| Intersection LOS | B |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 8 | 0 | 104 | 0 | 2 | 0 | 157 | 312 | 1 | 0 | 313 | 3 |
| Future Vol, veh/h | 8 | 0 | 104 | 0 | 2 | 0 | 157 | 312 | 1 | 0 | 313 | 3 |
| Peak Hour Factor | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 9 | 0 | 116 | 0 | 2 | 0 | 174 | 347 | 1 | 0 | 348 | 3 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 9.7 | 9.3 | 17.7 | 12.3 |
| HCM LOS | A | A | C | B |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 33% | 7% | 0% | 0% |
| Vol Thru, % | 66% | 0% | 100% | 99% |
| Vol Right, % | 0% | 93% | 0% | 1% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 470 | 112 | 2 | 316 |
| LT Vol | 157 | 8 | 0 | 0 |
| Through Vol | 312 | 0 | 2 | 313 |
| RT Vol | 1 | 104 | 0 | 3 |
| Lane Flow Rate | 522 | 124 | 2 | 351 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.687 | 0.188 | 0.004 | 0.473 |
| Departure Headway (Hd) | 4.735 | 5.437 | 6.288 | 4.851 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 757 | 665 | 572 | 734 |
| Service Time | 2.81 | 3.437 | 4.294 | 2.934 |
| HCM Lane V/C Ratio | 0.69 | 0.186 | 0.003 | 0.478 |
| HCM Control Delay | 17.7 | 9.7 | 9.3 | 12.3 |
| HCM Lane LOS | C | A | A | B |
| HCM 95th-tile Q | 5.5 | 0.7 | 0 | 2.6 |

4: Minnewawa Ave & Behymer Ave — Near-Term With Project-
HCM 6th Signalized Intersection Summary
12/20/2023

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 3 | 213 | 60 | 16 | 193 | 204 | 74 | 256 | 26 | 186 | 255 | 6 |
| Future Volume (veh/h) | 3 | 213 | 60 | 16 | 193 | 204 | 74 | 256 | 26 | 186 | 255 | 6 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.97 | 1.00 | | 0.96 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 3 | 245 | 69 | 18 | 222 | 234 | 85 | 294 | 30 | 214 | 293 | 7 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 76 | 458 | 128 | 86 | 269 | 270 | 125 | 394 | 40 | 267 | 576 | 14 |
| Arrive On Green | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.07 | 0.24 | 0.24 | 0.15 | 0.32 | 0.32 |
| Sat Flow, veh/h | 4 | 1397 | 390 | 26 | 819 | 824 | 1781 | 1662 | 170 | 1781 | 1817 | 43 |
| Grp Volume(v), veh/h | 317 | 0 | 0 | 474 | 0 | 0 | 85 | 0 | 324 | 214 | 0 | 300 |
| Grp Sat Flow(s),veh/h/ln | 1791 | 0 | 0 | 1669 | 0 | 0 | 1781 | 0 | 1832 | 1781 | 0 | 1861 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 3.7 | 0.0 | 0.0 | 2.3 | 0.0 | 7.9 | 5.6 | 0.0 | 6.4 |
| Cycle Q Clear(g_c), s | 7.0 | 0.0 | 0.0 | 12.9 | 0.0 | 0.0 | 2.3 | 0.0 | 7.9 | 5.6 | 0.0 | 6.4 |
| Prop In Lane | 0.01 | | 0.22 | 0.04 | | 0.49 | 1.00 | | 0.09 | 1.00 | | 0.02 |
| Lane Grp Cap(c), veh/h | 663 | 0 | 0 | 625 | 0 | 0 | 125 | 0 | 435 | 267 | 0 | 590 |
| V/C Ratio(X) | 0.48 | 0.00 | 0.00 | 0.76 | 0.00 | 0.00 | 0.68 | 0.00 | 0.75 | 0.80 | 0.00 | 0.51 |
| Avail Cap(c_a), veh/h | 743 | 0 | 0 | 699 | 0 | 0 | 261 | 0 | 722 | 331 | 0 | 806 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 13.3 | 0.0 | 0.0 | 15.2 | 0.0 | 0.0 | 22.0 | 0.0 | 17.1 | 19.9 | 0.0 | 13.5 |
| Incr Delay (d2), s/veh | 0.5 | 0.0 | 0.0 | 4.3 | 0.0 | 0.0 | 6.3 | 0.0 | 2.6 | 10.8 | 0.0 | 0.7 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.2 | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 1.0 | 0.0 | 2.9 | 2.7 | 0.0 | 2.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 13.8 | 0.0 | 0.0 | 19.6 | 0.0 | 0.0 | 28.3 | 0.0 | 19.7 | 30.7 | 0.0 | 14.2 |
| LnGrp LOS | B | A | A | B | A | A | C | A | B | C | A | B |
| Approach Vol, veh/h | | 317 | | | 474 | | | 409 | | | 514 | |
| Approach Delay, s/veh | | 13.8 | | | 19.6 | | | 21.5 | | | 21.0 | |
| Approach LOS | | B | | | B | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 11.3 | 16.4 | | 20.8 | 7.4 | 20.3 | | 20.8 | | | | |
| Change Period (Y+Rc), s | 4.0 | 4.9 | | 4.9 | 4.0 | 4.9 | | 4.9 | | | | |
| Max Green Setting (Gmax), s | 9.0 | 19.1 | | 18.1 | 7.1 | 21.0 | | 18.1 | | | | |
| Max Q Clear Time (g_c+I1), s | 7.6 | 9.9 | | 9.0 | 4.3 | 8.4 | | 14.9 | | | | |
| Green Ext Time (p_c), s | 0.1 | 1.1 | | 1.1 | 0.0 | 1.2 | | 0.9 | | | | |

| Intersection Summary | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HCM 6th Ctrl Delay | | | 19.4 | | | | | | | | | |
| HCM 6th LOS | | | B | | | | | | | | | |

4: Minnewawa Ave & Behymer Ave Near-Term With Project-
Queues

12/20/2023

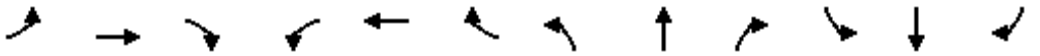


| Lane Group | EBT | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 317 | 474 | 85 | 324 | 214 | 300 |
| v/c Ratio | 0.56 | 0.83 | 0.38 | 0.66 | 0.72 | 0.41 |
| Control Delay | 19.5 | 30.3 | 28.8 | 24.5 | 40.4 | 16.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 19.5 | 30.3 | 28.8 | 24.5 | 40.4 | 16.1 |
| Queue Length 50th (ft) | 76 | 113 | 26 | 92 | 68 | 81 |
| Queue Length 95th (ft) | 151 | #267 | 64 | 155 | #168 | 137 |
| Internal Link Dist (ft) | 5395 | 1520 | | 2614 | | 2532 |
| Turn Bay Length (ft) | | | | | | |
| Base Capacity (vph) | 634 | 632 | 239 | 672 | 303 | 773 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.50 | 0.75 | 0.36 | 0.48 | 0.71 | 0.39 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

5: Minnewawa Ave & Shepherd Ave Near-Term With Project-
HCM 6th Signalized Intersection Summary
12/20/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 166 | 936 | 153 | 155 | 826 | 201 | 195 | 515 | 182 | 153 | 363 | 122 |
| Future Volume (veh/h) | 166 | 936 | 153 | 155 | 826 | 201 | 195 | 515 | 182 | 153 | 363 | 122 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.97 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 189 | 1064 | 162 | 176 | 939 | 166 | 222 | 585 | 201 | 174 | 412 | 131 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 222 | 1249 | 545 | 209 | 1035 | 183 | 255 | 728 | 315 | 209 | 635 | 274 |
| Arrive On Green | 0.12 | 0.35 | 0.35 | 0.12 | 0.34 | 0.34 | 0.14 | 0.20 | 0.20 | 0.12 | 0.18 | 0.18 |
| Sat Flow, veh/h | 1781 | 3554 | 1550 | 1781 | 3006 | 531 | 1781 | 3554 | 1539 | 1781 | 3554 | 1536 |
| Grp Volume(v), veh/h | 189 | 1064 | 162 | 176 | 555 | 550 | 222 | 585 | 201 | 174 | 412 | 131 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1777 | 1550 | 1781 | 1777 | 1761 | 1781 | 1777 | 1539 | 1781 | 1777 | 1536 |
| Q Serve(g_s), s | 8.8 | 23.6 | 6.4 | 8.2 | 25.3 | 25.4 | 10.4 | 13.3 | 10.2 | 8.1 | 9.2 | 6.5 |
| Cycle Q Clear(g_c), s | 8.8 | 23.6 | 6.4 | 8.2 | 25.3 | 25.4 | 10.4 | 13.3 | 10.2 | 8.1 | 9.2 | 6.5 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.30 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 222 | 1249 | 545 | 209 | 612 | 606 | 255 | 728 | 315 | 209 | 635 | 274 |
| V/C Ratio(X) | 0.85 | 0.85 | 0.30 | 0.84 | 0.91 | 0.91 | 0.87 | 0.80 | 0.64 | 0.83 | 0.65 | 0.48 |
| Avail Cap(c_a), veh/h | 222 | 1307 | 570 | 209 | 641 | 635 | 255 | 872 | 378 | 209 | 781 | 337 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 36.5 | 25.6 | 20.0 | 36.8 | 26.6 | 26.6 | 35.7 | 32.2 | 30.9 | 36.8 | 32.5 | 31.4 |
| Incr Delay (d2), s/veh | 25.9 | 5.4 | 0.3 | 25.3 | 16.3 | 16.5 | 26.0 | 4.6 | 2.6 | 24.1 | 1.3 | 1.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 5.2 | 9.7 | 2.1 | 4.8 | 12.2 | 12.2 | 6.0 | 5.7 | 3.7 | 4.7 | 3.8 | 2.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 62.4 | 31.0 | 20.3 | 62.1 | 42.9 | 43.1 | 61.6 | 36.8 | 33.6 | 60.9 | 33.8 | 32.7 |
| LnGrp LOS | E | C | C | E | D | D | E | D | C | E | C | C |
| Approach Vol, veh/h | | 1415 | | | 1281 | | | 1008 | | | 717 | |
| Approach Delay, s/veh | | 34.0 | | | 45.6 | | | 41.7 | | | 40.2 | |
| Approach LOS | | C | | | D | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 14.0 | 22.3 | 14.0 | 34.8 | 16.2 | 20.1 | 14.6 | 34.2 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 10.0 | 20.9 | 10.0 | 31.3 | 12.2 | 18.7 | 10.6 | 30.7 |
| Max Q Clear Time (g_c+I1), s | 10.1 | 15.3 | 10.2 | 25.6 | 12.4 | 11.2 | 10.8 | 27.4 |
| Green Ext Time (p_c), s | 0.0 | 2.0 | 0.0 | 3.3 | 0.0 | 1.7 | 0.0 | 1.9 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 40.1 |
| HCM 6th LOS | D |

5: Minnewawa Ave & Shepherd Ave Near-Term With Project-
Queues

12/20/2023



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 189 | 1064 | 174 | 176 | 1167 | 222 | 585 | 207 | 174 | 413 | 139 |
| v/c Ratio | 0.89 | 0.85 | 0.28 | 0.88 | 0.96 | 0.91 | 0.77 | 0.42 | 0.87 | 0.61 | 0.36 |
| Control Delay | 79.7 | 34.4 | 8.9 | 79.7 | 46.7 | 78.5 | 39.9 | 7.2 | 78.0 | 36.9 | 10.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 79.7 | 34.4 | 8.9 | 79.7 | 46.7 | 78.5 | 39.9 | 7.2 | 78.0 | 36.9 | 10.9 |
| Queue Length 50th (ft) | 108 | 293 | 21 | 100 | 333 | 127 | 161 | 0 | 99 | 111 | 9 |
| Queue Length 95th (ft) | #224 | #367 | 63 | #212 | #462 | #253 | 214 | 50 | #210 | 155 | 54 |
| Internal Link Dist (ft) | | 2560 | | | 1263 | | 2631 | | | 2555 | |
| Turn Bay Length (ft) | 250 | | 45 | 250 | | 250 | | | 255 | | 25 |
| Base Capacity (vph) | 212 | 1257 | 626 | 200 | 1215 | 244 | 839 | 523 | 200 | 751 | 420 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.89 | 0.85 | 0.28 | 0.88 | 0.96 | 0.91 | 0.70 | 0.40 | 0.87 | 0.55 | 0.33 |

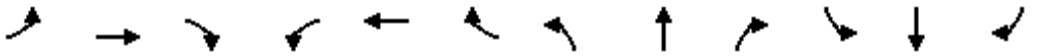
Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

7: Clovis Ave & Shepherd Ave — Near-Term With Project-

HCM 6th Signalized Intersection Summary

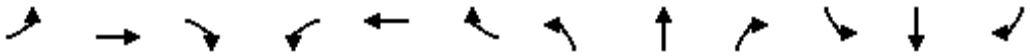
12/20/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 207 | 811 | 163 | 144 | 817 | 165 | 228 | 380 | 200 | 128 | 243 | 147 |
| Future Volume (veh/h) | 207 | 811 | 163 | 144 | 817 | 165 | 228 | 380 | 200 | 128 | 243 | 147 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 238 | 932 | 167 | 166 | 939 | 187 | 262 | 437 | 193 | 147 | 279 | 151 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 352 | 1390 | 609 | 263 | 1298 | 568 | 381 | 707 | 308 | 240 | 562 | 244 |
| Arrive On Green | 0.10 | 0.39 | 0.39 | 0.08 | 0.37 | 0.37 | 0.11 | 0.20 | 0.20 | 0.07 | 0.16 | 0.16 |
| Sat Flow, veh/h | 3456 | 3554 | 1556 | 3456 | 3554 | 1555 | 3456 | 3554 | 1546 | 3456 | 3554 | 1540 |
| Grp Volume(v), veh/h | 238 | 932 | 167 | 166 | 939 | 187 | 262 | 437 | 193 | 147 | 279 | 151 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1556 | 1728 | 1777 | 1555 | 1728 | 1777 | 1546 | 1728 | 1777 | 1540 |
| Q Serve(g_s), s | 4.5 | 14.6 | 4.9 | 3.1 | 15.4 | 5.8 | 4.9 | 7.6 | 7.7 | 2.8 | 4.8 | 6.2 |
| Cycle Q Clear(g_c), s | 4.5 | 14.6 | 4.9 | 3.1 | 15.4 | 5.8 | 4.9 | 7.6 | 7.7 | 2.8 | 4.8 | 6.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 352 | 1390 | 609 | 263 | 1298 | 568 | 381 | 707 | 308 | 240 | 562 | 244 |
| V/C Ratio(X) | 0.68 | 0.67 | 0.27 | 0.63 | 0.72 | 0.33 | 0.69 | 0.62 | 0.63 | 0.61 | 0.50 | 0.62 |
| Avail Cap(c_a), veh/h | 769 | 2590 | 1134 | 564 | 2379 | 1041 | 821 | 1430 | 622 | 564 | 1166 | 505 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 29.2 | 16.9 | 14.0 | 30.2 | 18.4 | 15.4 | 28.9 | 24.6 | 24.7 | 30.5 | 25.9 | 26.5 |
| Incr Delay (d2), s/veh | 2.3 | 0.6 | 0.2 | 2.5 | 0.8 | 0.3 | 2.2 | 0.9 | 2.1 | 2.5 | 0.7 | 2.6 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.8 | 4.9 | 1.5 | 1.3 | 5.3 | 1.8 | 2.0 | 2.9 | 2.6 | 1.1 | 1.9 | 2.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 31.4 | 17.5 | 14.2 | 32.7 | 19.2 | 15.8 | 31.1 | 25.5 | 26.8 | 33.0 | 26.6 | 29.0 |
| LnGrp LOS | C | B | B | C | B | B | C | C | C | C | C | C |
| Approach Vol, veh/h | | 1337 | | | 1292 | | | 892 | | | 577 | |
| Approach Delay, s/veh | | 19.6 | | | 20.4 | | | 27.4 | | | 28.8 | |
| Approach LOS | | B | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 8.7 | 18.3 | 9.1 | 31.3 | 11.4 | 15.6 | 10.9 | 29.5 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 11.0 | 27.1 | 11.0 | 49.1 | 16.0 | 22.1 | 15.0 | 45.1 |
| Max Q Clear Time (g_c+I1), s | 4.8 | 9.7 | 5.1 | 16.6 | 6.9 | 8.2 | 6.5 | 17.4 |
| Green Ext Time (p_c), s | 0.2 | 3.0 | 0.2 | 7.4 | 0.6 | 1.8 | 0.5 | 7.3 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 22.9 |
| HCM 6th LOS | C |



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 238 | 932 | 187 | 166 | 939 | 190 | 262 | 437 | 230 | 147 | 279 | 169 |
| v/c Ratio | 0.53 | 0.69 | 0.28 | 0.45 | 0.74 | 0.28 | 0.56 | 0.61 | 0.54 | 0.42 | 0.47 | 0.43 |
| Control Delay | 44.1 | 26.6 | 8.1 | 45.9 | 29.8 | 4.5 | 43.8 | 38.2 | 18.9 | 45.6 | 38.8 | 9.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 44.1 | 26.6 | 8.1 | 45.9 | 29.8 | 4.5 | 43.8 | 38.2 | 18.9 | 45.6 | 38.8 | 9.8 |
| Queue Length 50th (ft) | 64 | 225 | 20 | 45 | 236 | 0 | 71 | 118 | 40 | 40 | 75 | 0 |
| Queue Length 95th (ft) | 124 | 331 | 65 | 93 | 356 | 41 | 133 | 195 | 120 | 84 | 135 | 53 |
| Internal Link Dist (ft) | | 1234 | | | 1233 | | | 1070 | | | 873 | |
| Turn Bay Length (ft) | 250 | | 50 | 250 | | 255 | 235 | | 65 | 255 | | 100 |
| Base Capacity (vph) | 597 | 2017 | 937 | 438 | 1852 | 899 | 637 | 1113 | 585 | 438 | 908 | 520 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.40 | 0.46 | 0.20 | 0.38 | 0.51 | 0.21 | 0.41 | 0.39 | 0.39 | 0.34 | 0.31 | 0.33 |

Intersection Summary

# Warrant 3: Peak Hour

**4: Minnewawa Ave & Behymer Ave - Near-Term W Proj**

**Intersection Information:**

| | Major Street | Minor Street |
|---|---|---|
| **Street Name** | Minnewawa Ave | Behymer Ave |
| **Direction** | NB/SB | EB/WB |
| **Number of Lanes** | 1 | 1 |
| **Approach Speed** | 50 | 45 |

**Warrant 3 Met?** Yes

**Details**

**Low Population?** No

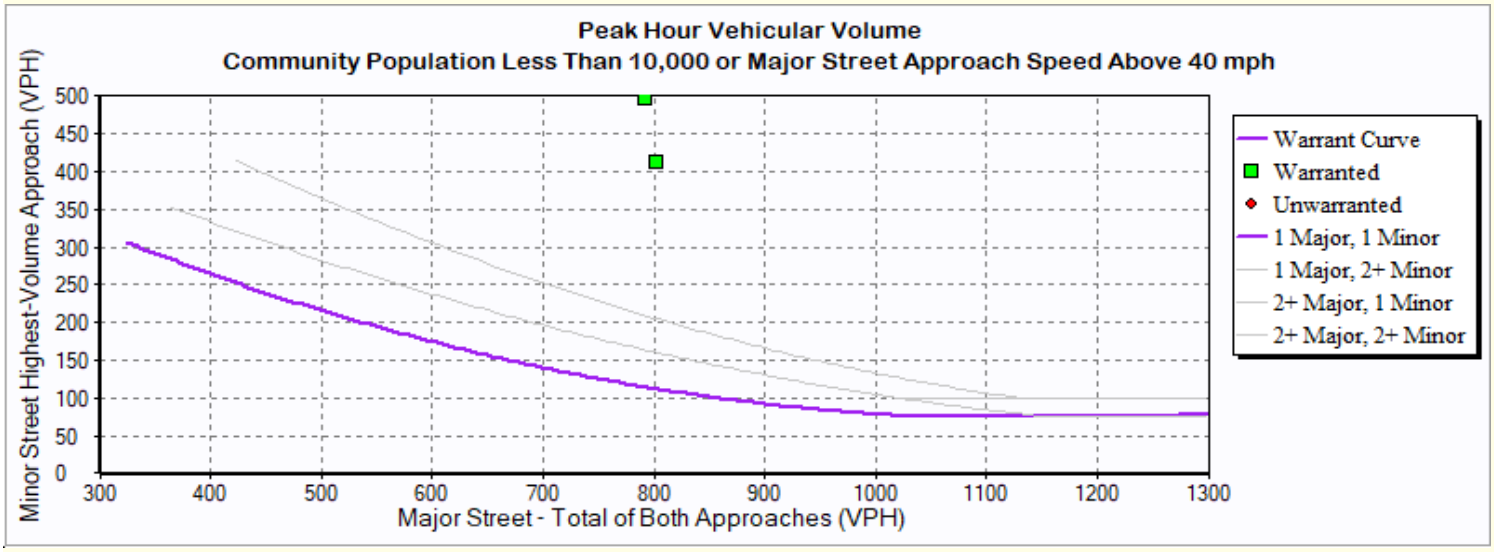
**Condition A Met?** No

**Notes** 0 Hours met (1 required)

**Condition B Met?** Yes

**Notes** 2 Hours met (1 required)

| | |
|---|---|
| Minor Approach Time Delay Condition Met? | Not Met |
| Minor Approach Volume Condition Met? | Met |
| Total Entering Intersection Volume Condition Met? | Not Met |



# Warrant 3: Peak Hour

**4: Minnewawa Ave & Behymer Ave - Near-Term W Proj**

| Hour | Major Street<br>Total All Approaches (vph) | Minor Street<br>Highest Volume Approach (vph) |
|---|---|---|
| 7:15 | 792 | 556 |
| 17:00 | 803 | 413 |

2: Minnewawa Ave & International Ave Cumulative (Year 2045) With Project-
HCM 6th Signalized Intersection Summary

12/20/2023

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 5 | 2 | 149 | 1 | 1 | 1 | 450 | 269 | 6 | 1 | 338 | 29 |
| Future Volume (veh/h) | 5 | 2 | 149 | 1 | 1 | 1 | 450 | 269 | 6 | 1 | 338 | 29 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 0.98 | | 0.97 | 0.99 | | 0.94 | 1.00 | | 0.97 | 1.00 | | 0.96 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 5 | 2 | 113 | 1 | 1 | 1 | 489 | 292 | 7 | 1 | 367 | 22 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 81 | 7 | 171 | 132 | 98 | 65 | 574 | 1081 | 26 | 4 | 477 | 29 |
| Arrive On Green | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.32 | 0.59 | 0.59 | 0.00 | 0.27 | 0.27 |
| Sat Flow, veh/h | 32 | 58 | 1449 | 277 | 830 | 554 | 1781 | 1818 | 44 | 1781 | 1743 | 104 |
| Grp Volume(v), veh/h | 120 | 0 | 0 | 3 | 0 | 0 | 489 | 0 | 299 | 1 | 0 | 389 |
| Grp Sat Flow(s),veh/h/ln | 1539 | 0 | 0 | 1661 | 0 | 0 | 1781 | 0 | 1861 | 1781 | 0 | 1847 |
| Q Serve(g_s), s | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.4 | 0.0 | 3.7 | 0.0 | 0.0 | 9.4 |
| Cycle Q Clear(g_c), s | 3.6 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 12.4 | 0.0 | 3.7 | 0.0 | 0.0 | 9.4 |
| Prop In Lane | 0.04 | | 0.94 | 0.33 | | 0.33 | 1.00 | | 0.02 | 1.00 | | 0.06 |
| Lane Grp Cap(c), veh/h | 260 | 0 | 0 | 296 | 0 | 0 | 574 | 0 | 1107 | 4 | 0 | 505 |
| V/C Ratio(X) | 0.46 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.85 | 0.00 | 0.27 | 0.27 | 0.00 | 0.77 |
| Avail Cap(c_a), veh/h | 649 | 0 | 0 | 679 | 0 | 0 | 959 | 0 | 1630 | 218 | 0 | 849 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 20.3 | 0.0 | 0.0 | 18.8 | 0.0 | 0.0 | 15.3 | 0.0 | 4.7 | 24.1 | 0.0 | 16.1 |
| Incr Delay (d2), s/veh | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.9 | 0.0 | 0.1 | 35.4 | 0.0 | 2.5 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | 0.6 | 0.0 | 0.0 | 3.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 21.6 | 0.0 | 0.0 | 18.8 | 0.0 | 0.0 | 19.2 | 0.0 | 4.9 | 59.5 | 0.0 | 18.7 |
| LnGrp LOS | C | A | A | B | A | A | B | A | A | E | A | B |
| Approach Vol, veh/h | | 120 | | | 3 | | | 788 | | | 390 | |
| Approach Delay, s/veh | | 21.6 | | | 18.8 | | | 13.8 | | | 18.8 | |
| Approach LOS | | C | | | B | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 4.1 | 33.6 | | 10.6 | 19.6 | 18.1 | | 10.6 | | | | |
| Change Period (Y+Rc), s | 4.0 | 4.9 | | 4.9 | 4.0 | 4.9 | | 4.9 | | | | |
| Max Green Setting (Gmax), s | 5.9 | 42.3 | | 18.0 | 26.0 | 22.2 | | 18.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 2.0 | 5.7 | | 5.6 | 14.4 | 11.4 | | 2.1 | | | | |
| Green Ext Time (p_c), s | 0.0 | 1.6 | | 0.4 | 1.2 | 1.5 | | 0.0 | | | | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 6th Ctrl Delay | | 16.0 | |
| HCM 6th LOS | | B | |

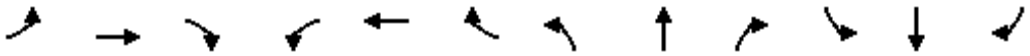
| Lane Group | EBT | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 169 | 3 | 489 | 299 | 1 | 399 |
| v/c Ratio | 0.52 | 0.02 | 0.77 | 0.23 | 0.01 | 0.73 |
| Control Delay | 12.4 | 24.3 | 28.7 | 4.9 | 31.0 | 29.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 12.4 | 24.3 | 28.7 | 4.9 | 31.0 | 29.4 |
| Queue Length 50th (ft) | 3 | 1 | 155 | 24 | 0 | 132 |
| Queue Length 95th (ft) | 53 | 8 | #344 | 102 | 5 | #260 |
| Internal Link Dist (ft) | 1204 | 1166 | | 2532 | | 1799 |
| Turn Bay Length (ft) | | | | | | |
| Base Capacity (vph) | 586 | 454 | 769 | 1398 | 174 | 684 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.29 | 0.01 | 0.64 | 0.21 | 0.01 | 0.58 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

4: Minnewawa Ave & Behymer Ave Cumulative (Year 2045) With Project-
HCM 6th Signalized Intersection Summary

12/20/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 3 | 188 | 98 | 61 | 529 | 390 | 133 | 290 | 14 | 169 | 594 | 11 |
| Future Volume (veh/h) | 3 | 188 | 98 | 61 | 529 | 390 | 133 | 290 | 14 | 169 | 594 | 11 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.97 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 3 | 194 | 71 | 63 | 545 | 281 | 137 | 299 | 14 | 174 | 612 | 11 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 7 | 358 | 131 | 84 | 596 | 495 | 170 | 597 | 28 | 212 | 661 | 12 |
| Arrive On Green | 0.00 | 0.28 | 0.28 | 0.05 | 0.32 | 0.32 | 0.10 | 0.34 | 0.34 | 0.12 | 0.36 | 0.36 |
| Sat Flow, veh/h | 1781 | 1298 | 475 | 1781 | 1870 | 1553 | 1781 | 1769 | 83 | 1781 | 1830 | 33 |
| Grp Volume(v), veh/h | 3 | 0 | 265 | 63 | 545 | 281 | 137 | 0 | 313 | 174 | 0 | 623 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 0 | 1773 | 1781 | 1870 | 1553 | 1781 | 0 | 1852 | 1781 | 0 | 1863 |
| Q Serve(g_s), s | 0.1 | 0.0 | 10.3 | 2.8 | 22.6 | 12.1 | 6.1 | 0.0 | 10.9 | 7.7 | 0.0 | 25.9 |
| Cycle Q Clear(g_c), s | 0.1 | 0.0 | 10.3 | 2.8 | 22.6 | 12.1 | 6.1 | 0.0 | 10.9 | 7.7 | 0.0 | 25.9 |
| Prop In Lane | 1.00 | | 0.27 | 1.00 | | 1.00 | 1.00 | | 0.04 | 1.00 | | 0.02 |
| Lane Grp Cap(c), veh/h | 7 | 0 | 489 | 84 | 596 | 495 | 170 | 0 | 625 | 212 | 0 | 673 |
| V/C Ratio(X) | 0.42 | 0.00 | 0.54 | 0.75 | 0.91 | 0.57 | 0.81 | 0.00 | 0.50 | 0.82 | 0.00 | 0.93 |
| Avail Cap(c_a), veh/h | 130 | 0 | 556 | 170 | 629 | 522 | 172 | 0 | 625 | 274 | 0 | 726 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 40.0 | 0.0 | 24.9 | 37.9 | 26.4 | 22.8 | 35.7 | 0.0 | 21.3 | 34.7 | 0.0 | 24.7 |
| Incr Delay (d2), s/veh | 34.4 | 0.0 | 0.9 | 12.8 | 17.6 | 1.3 | 23.4 | 0.0 | 0.6 | 14.1 | 0.0 | 17.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.1 | 0.0 | 4.1 | 1.5 | 11.9 | 4.2 | 3.5 | 0.0 | 4.3 | 3.9 | 0.0 | 13.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 74.4 | 0.0 | 25.8 | 50.7 | 44.0 | 24.2 | 59.1 | 0.0 | 21.9 | 48.8 | 0.0 | 41.9 |
| LnGrp LOS | E | A | C | D | D | C | E | A | C | D | A | D |
| Approach Vol, veh/h | | 268 | | | 889 | | | 450 | | | 797 | |
| Approach Delay, s/veh | | 26.3 | | | 38.2 | | | 33.2 | | | 43.4 | |
| Approach LOS | | C | | | D | | | C | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.6 | 32.1 | 7.8 | 27.1 | 11.7 | 34.0 | 4.3 | 30.6 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 12.4 | 26.8 | 7.7 | 25.3 | 7.8 | 31.4 | 5.9 | 27.1 |
| Max Q Clear Time (g_c+I1), s | 9.7 | 12.9 | 4.8 | 12.3 | 8.1 | 27.9 | 2.1 | 24.6 |
| Green Ext Time (p_c), s | 0.1 | 1.3 | 0.0 | 1.1 | 0.0 | 1.2 | 0.0 | 1.1 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 37.7 |
| HCM 6th LOS | D |

Queues



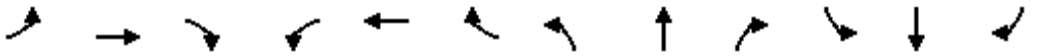
| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 3 | 295 | 63 | 545 | 402 | 137 | 313 | 174 | 623 |
| v/c Ratio | 0.02 | 0.62 | 0.41 | 0.84 | 0.50 | 0.82 | 0.52 | 0.71 | 0.91 |
| Control Delay | 39.0 | 32.0 | 45.9 | 40.1 | 5.0 | 75.4 | 27.2 | 52.2 | 45.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 39.0 | 32.0 | 45.9 | 40.1 | 5.0 | 75.4 | 27.2 | 52.2 | 45.1 |
| Queue Length 50th (ft) | 2 | 129 | 31 | 252 | 0 | 71 | 129 | 86 | 293 |
| Queue Length 95th (ft) | 10 | 213 | 75 | #512 | 65 | #187 | 233 | #189 | #566 |
| Internal Link Dist (ft) | | 5395 | | 1520 | | | 2614 | | 2532 |
| Turn Bay Length (ft) | | | | | | | | | |
| Base Capacity (vph) | 126 | 565 | 165 | 646 | 799 | 167 | 606 | 266 | 707 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.02 | 0.52 | 0.38 | 0.84 | 0.50 | 0.82 | 0.52 | 0.65 | 0.88 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

5: Minnewawa Ave & Shepherd Ave Cumulative (Year 2045) With Project-
HCM 6th Signalized Intersection Summary

12/20/2023



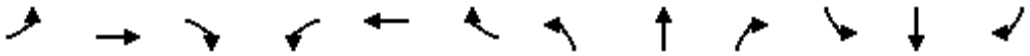
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 97 | 710 | 364 | 228 | 881 | 200 | 218 | 318 | 101 | 355 | 912 | 147 |
| Future Volume (veh/h) | 97 | 710 | 364 | 228 | 881 | 200 | 218 | 318 | 101 | 355 | 912 | 147 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.98 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 103 | 755 | 309 | 243 | 937 | 129 | 232 | 338 | 86 | 378 | 970 | 125 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 123 | 798 | 347 | 265 | 1082 | 473 | 253 | 727 | 316 | 400 | 1019 | 445 |
| Arrive On Green | 0.07 | 0.22 | 0.22 | 0.15 | 0.30 | 0.30 | 0.14 | 0.20 | 0.20 | 0.22 | 0.29 | 0.29 |
| Sat Flow, veh/h | 1781 | 3554 | 1548 | 1781 | 3554 | 1553 | 1781 | 3554 | 1546 | 1781 | 3554 | 1552 |
| Grp Volume(v), veh/h | 103 | 755 | 309 | 243 | 937 | 129 | 232 | 338 | 86 | 378 | 970 | 125 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1777 | 1548 | 1781 | 1777 | 1553 | 1781 | 1777 | 1546 | 1781 | 1777 | 1552 |
| Q Serve(g_s), s | 5.1 | 18.8 | 17.4 | 12.1 | 22.4 | 5.7 | 11.6 | 7.5 | 4.2 | 18.8 | 24.1 | 5.6 |
| Cycle Q Clear(g_c), s | 5.1 | 18.8 | 17.4 | 12.1 | 22.4 | 5.7 | 11.6 | 7.5 | 4.2 | 18.8 | 24.1 | 5.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 123 | 798 | 347 | 265 | 1082 | 473 | 253 | 727 | 316 | 400 | 1019 | 445 |
| V/C Ratio(X) | 0.84 | 0.95 | 0.89 | 0.92 | 0.87 | 0.27 | 0.92 | 0.47 | 0.27 | 0.95 | 0.95 | 0.28 |
| Avail Cap(c_a), veh/h | 123 | 798 | 347 | 265 | 1082 | 473 | 253 | 727 | 316 | 400 | 1019 | 445 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 41.4 | 34.4 | 33.8 | 37.7 | 29.6 | 23.7 | 38.1 | 31.5 | 30.2 | 34.4 | 31.5 | 24.9 |
| Incr Delay (d2), s/veh | 37.7 | 20.0 | 23.4 | 33.9 | 7.6 | 0.3 | 34.9 | 0.5 | 0.5 | 31.3 | 17.8 | 0.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 3.4 | 9.7 | 8.3 | 7.4 | 9.8 | 2.0 | 7.2 | 3.1 | 1.5 | 11.0 | 11.9 | 1.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 79.1 | 54.4 | 57.2 | 71.7 | 37.1 | 24.1 | 73.0 | 31.9 | 30.6 | 65.7 | 49.3 | 25.2 |
| LnGrp LOS | E | D | E | E | D | C | E | C | C | E | D | C |
| Approach Vol, veh/h | | 1167 | | | 1309 | | | 656 | | | 1473 | |
| Approach Delay, s/veh | | 57.3 | | | 42.2 | | | 46.3 | | | 51.5 | |
| Approach LOS | | E | | | D | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 24.2 | 23.3 | 17.4 | 25.1 | 16.8 | 30.7 | 10.2 | 32.3 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 20.2 | 18.4 | 13.4 | 20.2 | 12.8 | 25.8 | 6.2 | 27.4 |
| Max Q Clear Time (g_c+I1), s | 20.8 | 9.5 | 14.1 | 20.8 | 13.6 | 26.1 | 7.1 | 24.4 |
| Green Ext Time (p_c), s | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 49.6 |
| HCM 6th LOS | D |

5: Minnewawa Ave & Shepherd Ave Cumulative (Year 2045) With Project-
Queues

12/20/2023



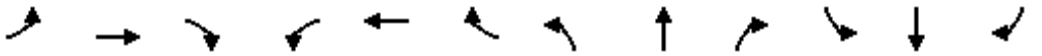
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 103 | 755 | 387 | 243 | 937 | 213 | 232 | 338 | 107 | 378 | 970 | 156 |
| v/c Ratio | 0.85 | 0.95 | 0.75 | 0.92 | 0.87 | 0.34 | 0.92 | 0.47 | 0.22 | 0.95 | 0.96 | 0.28 |
| Control Delay | 93.4 | 57.6 | 24.5 | 78.9 | 40.0 | 5.2 | 80.6 | 34.0 | 1.0 | 71.0 | 52.2 | 4.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 93.4 | 57.6 | 24.5 | 78.9 | 40.0 | 5.2 | 80.6 | 34.0 | 1.0 | 71.0 | 52.2 | 4.9 |
| Queue Length 50th (ft) | 59 | 223 | 88 | 138 | 263 | 0 | 132 | 89 | 0 | 213 | 284 | 0 |
| Queue Length 95th (ft) | #152 | #339 | #225 | #279 | #372 | 49 | #269 | 132 | 0 | #386 | #413 | 38 |
| Internal Link Dist (ft) | | 2560 | | | 1263 | | | 2631 | | | 2555 | |
| Turn Bay Length (ft) | 250 | | 45 | 250 | | 200 | 250 | | | 255 | | 25 |
| Base Capacity (vph) | 121 | 794 | 515 | 263 | 1077 | 619 | 251 | 723 | 488 | 397 | 1014 | 563 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.85 | 0.95 | 0.75 | 0.92 | 0.87 | 0.34 | 0.92 | 0.47 | 0.22 | 0.95 | 0.96 | 0.28 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

7: Clovis Ave & Shepherd Ave Cumulative (Year 2045) With Project-
HCM 6th Signalized Intersection Summary

12/20/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 120 | 735 | 218 | 325 | 853 | 183 | 206 | 212 | 175 | 203 | 639 | 320 |
| Future Volume (veh/h) | 120 | 735 | 218 | 325 | 853 | 183 | 206 | 212 | 175 | 203 | 639 | 320 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.98 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 130 | 799 | 189 | 353 | 927 | 159 | 224 | 230 | 152 | 221 | 695 | 278 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 205 | 1040 | 454 | 458 | 1301 | 569 | 314 | 941 | 410 | 312 | 939 | 410 |
| Arrive On Green | 0.06 | 0.29 | 0.29 | 0.13 | 0.37 | 0.37 | 0.09 | 0.26 | 0.26 | 0.09 | 0.26 | 0.26 |
| Sat Flow, veh/h | 3456 | 3554 | 1552 | 3456 | 3554 | 1555 | 3456 | 3554 | 1551 | 3456 | 3554 | 1551 |
| Grp Volume(v), veh/h | 130 | 799 | 189 | 353 | 927 | 159 | 224 | 230 | 152 | 221 | 695 | 278 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1552 | 1728 | 1777 | 1555 | 1728 | 1777 | 1551 | 1728 | 1777 | 1551 |
| Q Serve(g_s), s | 3.0 | 16.6 | 7.9 | 8.0 | 18.1 | 5.9 | 5.1 | 4.1 | 6.5 | 5.0 | 14.5 | 13.0 |
| Cycle Q Clear(g_c), s | 3.0 | 16.6 | 7.9 | 8.0 | 18.1 | 5.9 | 5.1 | 4.1 | 6.5 | 5.0 | 14.5 | 13.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 205 | 1040 | 454 | 458 | 1301 | 569 | 314 | 941 | 410 | 312 | 939 | 410 |
| V/C Ratio(X) | 0.63 | 0.77 | 0.42 | 0.77 | 0.71 | 0.28 | 0.71 | 0.24 | 0.37 | 0.71 | 0.74 | 0.68 |
| Avail Cap(c_a), veh/h | 371 | 1539 | 672 | 767 | 1947 | 852 | 512 | 1416 | 618 | 546 | 1451 | 633 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 37.3 | 26.1 | 23.1 | 34.0 | 22.0 | 18.1 | 35.8 | 23.4 | 24.3 | 35.8 | 27.3 | 26.7 |
| Incr Delay (d2), s/veh | 3.2 | 1.4 | 0.6 | 2.8 | 0.7 | 0.3 | 3.0 | 0.1 | 0.6 | 3.0 | 1.2 | 2.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.3 | 6.5 | 2.7 | 3.3 | 6.7 | 1.9 | 2.2 | 1.6 | 2.2 | 2.1 | 5.8 | 4.5 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 40.5 | 27.5 | 23.7 | 36.7 | 22.8 | 18.4 | 38.8 | 23.6 | 24.8 | 38.8 | 28.4 | 28.7 |
| LnGrp LOS | D | C | C | D | C | B | D | C | C | D | C | C |
| Approach Vol, veh/h | | 1118 | | | 1439 | | | 606 | | | 1194 | |
| Approach Delay, s/veh | | 28.4 | | | 25.7 | | | 29.5 | | | 30.4 | |
| Approach LOS | | C | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 11.3 | 26.4 | 14.7 | 28.6 | 11.4 | 26.3 | 8.8 | 34.6 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 12.8 | 32.3 | 18.0 | 35.1 | 12.0 | 33.1 | 8.7 | 44.4 |
| Max Q Clear Time (g_c+I1), s | 7.0 | 8.5 | 10.0 | 18.6 | 7.1 | 16.5 | 5.0 | 20.1 |
| Green Ext Time (p_c), s | 0.3 | 1.8 | 0.8 | 5.1 | 0.3 | 4.9 | 0.1 | 6.8 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 28.2 |
| HCM 6th LOS | C |

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 130 | 799 | 237 | 353 | 927 | 199 | 224 | 230 | 190 | 221 | 695 | 348 |
| v/c Ratio | 0.46 | 0.78 | 0.44 | 0.68 | 0.73 | 0.29 | 0.60 | 0.25 | 0.35 | 0.58 | 0.74 | 0.63 |
| Control Delay | 53.6 | 39.7 | 16.8 | 49.5 | 32.3 | 4.6 | 52.7 | 31.1 | 6.6 | 51.5 | 39.7 | 20.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 53.6 | 39.7 | 16.8 | 49.5 | 32.3 | 4.6 | 52.7 | 31.1 | 6.6 | 51.5 | 39.7 | 20.4 |
| Queue Length 50th (ft) | 44 | 258 | 54 | 118 | 280 | 0 | 75 | 64 | 0 | 74 | 225 | 88 |
| Queue Length 95th (ft) | 81 | 356 | 132 | 180 | 375 | 47 | 125 | 104 | 54 | 123 | 311 | 198 |
| Internal Link Dist (ft) | | 1234 | | | 1233 | | | 1070 | | | 873 | |
| Turn Bay Length (ft) | 250 | | 50 | 250 | | 255 | 235 | | 65 | 255 | | 100 |
| Base Capacity (vph) | 306 | 1276 | 640 | 634 | 1614 | 813 | 423 | 1174 | 638 | 451 | 1203 | 652 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.42 | 0.63 | 0.37 | 0.56 | 0.57 | 0.24 | 0.53 | 0.20 | 0.30 | 0.49 | 0.58 | 0.53 |

Intersection Summary

2: Minnewawa Ave & International Ave Cumulative (Year 2045) With Project-
HCM 6th Signalized Intersection Summary

12/20/2023

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 70 | 2 | 164 | 1 | 2 | 1 | 188 | 360 | 37 | 1 | 355 | 30 |
| Future Volume (veh/h) | 70 | 2 | 164 | 1 | 2 | 1 | 188 | 360 | 37 | 1 | 355 | 30 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 0.99 | | 0.98 | 1.00 | | 0.96 | 1.00 | | 0.97 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 76 | 2 | 178 | 1 | 2 | 1 | 204 | 391 | 40 | 1 | 386 | 33 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 189 | 29 | 240 | 158 | 241 | 97 | 262 | 735 | 75 | 4 | 502 | 43 |
| Arrive On Green | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.15 | 0.44 | 0.44 | 0.00 | 0.30 | 0.30 |
| Sat Flow, veh/h | 339 | 128 | 1066 | 220 | 1070 | 430 | 1781 | 1663 | 170 | 1781 | 1693 | 145 |
| Grp Volume(v), veh/h | 256 | 0 | 0 | 4 | 0 | 0 | 204 | 0 | 431 | 1 | 0 | 419 |
| Grp Sat Flow(s),veh/h/ln | 1534 | 0 | 0 | 1720 | 0 | 0 | 1781 | 0 | 1834 | 1781 | 0 | 1838 |
| Q Serve(g_s), s | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.6 | 0.0 | 7.1 | 0.0 | 0.0 | 8.6 |
| Cycle Q Clear(g_c), s | 6.4 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 4.6 | 0.0 | 7.1 | 0.0 | 0.0 | 8.6 |
| Prop In Lane | 0.30 | | 0.70 | 0.25 | | 0.25 | 1.00 | | 0.09 | 1.00 | | 0.08 |
| Lane Grp Cap(c), veh/h | 457 | 0 | 0 | 495 | 0 | 0 | 262 | 0 | 810 | 4 | 0 | 545 |
| V/C Ratio(X) | 0.56 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.78 | 0.00 | 0.53 | 0.23 | 0.00 | 0.77 |
| Avail Cap(c_a), veh/h | 769 | 0 | 0 | 820 | 0 | 0 | 428 | 0 | 983 | 253 | 0 | 804 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 14.9 | 0.0 | 0.0 | 12.5 | 0.0 | 0.0 | 17.1 | 0.0 | 8.5 | 20.7 | 0.0 | 13.3 |
| Incr Delay (d2), s/veh | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 0.0 | 0.5 | 25.8 | 0.0 | 2.7 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 1.6 | 0.0 | 0.0 | 2.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 16.0 | 0.0 | 0.0 | 12.5 | 0.0 | 0.0 | 22.1 | 0.0 | 9.0 | 46.5 | 0.0 | 16.0 |
| LnGrp LOS | B | A | A | B | A | A | C | A | A | D | A | B |
| Approach Vol, veh/h | | 256 | | | 4 | | | 635 | | | 420 | |
| Approach Delay, s/veh | | 16.0 | | | 12.5 | | | 13.2 | | | 16.1 | |
| Approach LOS | | B | | | B | | | B | | | B | |

| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 4.1 | 23.3 | | 14.3 | 10.1 | 17.2 | | 14.3 | | | | |
| Change Period (Y+Rc), s | 4.0 | 4.9 | | 4.9 | 4.0 | 4.9 | | 4.9 | | | | |
| Max Green Setting (Gmax), s | 5.9 | 22.3 | | 18.0 | 10.0 | 18.2 | | 18.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 2.0 | 9.1 | | 8.4 | 6.6 | 10.6 | | 2.1 | | | | |
| Green Ext Time (p_c), s | 0.0 | 1.9 | | 0.9 | 0.2 | 1.3 | | 0.0 | | | | |

| Intersection Summary | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HCM 6th Ctrl Delay | | | 14.7 | | | | | | | | | |
| HCM 6th LOS | | | B | | | | | | | | | |

2: Minnewawa Ave & International Ave Cumulative (Year 2045) With Project-Queues



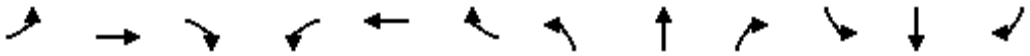
| Lane Group | EBT | WBT | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 256 | 4 | 204 | 431 | 1 | 419 |
| v/c Ratio | 0.61 | 0.01 | 0.58 | 0.41 | 0.00 | 0.72 |
| Control Delay | 13.4 | 15.0 | 28.1 | 9.1 | 22.0 | 23.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 13.4 | 15.0 | 28.1 | 9.1 | 22.0 | 23.3 |
| Queue Length 50th (ft) | 19 | 1 | 51 | 46 | 0 | 96 |
| Queue Length 95th (ft) | 74 | 7 | #145 | 189 | 4 | #237 |
| Internal Link Dist (ft) | 1204 | 1166 | | 2532 | | 1799 |
| Turn Bay Length (ft) | | | | | | |
| Base Capacity (vph) | 690 | 650 | 384 | 1055 | 226 | 729 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.37 | 0.01 | 0.53 | 0.41 | 0.00 | 0.57 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

4: Minnewawa Ave & Behymer Ave Cumulative (Year 2045) With Project-
HCM 6th Signalized Intersection Summary

12/20/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 14 | 377 | 109 | 22 | 222 | 245 | 154 | 442 | 30 | 216 | 270 | 7 |
| Future Volume (veh/h) | 14 | 377 | 109 | 22 | 222 | 245 | 154 | 442 | 30 | 216 | 270 | 7 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.97 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 15 | 410 | 94 | 24 | 241 | 213 | 167 | 480 | 26 | 235 | 293 | 6 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 31 | 446 | 102 | 46 | 584 | 485 | 204 | 523 | 28 | 273 | 614 | 13 |
| Arrive On Green | 0.02 | 0.30 | 0.30 | 0.03 | 0.31 | 0.31 | 0.11 | 0.30 | 0.30 | 0.15 | 0.34 | 0.34 |
| Sat Flow, veh/h | 1781 | 1466 | 336 | 1781 | 1870 | 1553 | 1781 | 1754 | 95 | 1781 | 1825 | 37 |
| Grp Volume(v), veh/h | 15 | 0 | 504 | 24 | 241 | 213 | 167 | 0 | 506 | 235 | 0 | 299 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 0 | 1802 | 1781 | 1870 | 1553 | 1781 | 0 | 1849 | 1781 | 0 | 1862 |
| Q Serve(g_s), s | 0.7 | 0.0 | 22.0 | 1.1 | 8.3 | 8.9 | 7.5 | 0.0 | 21.5 | 10.5 | 0.0 | 10.3 |
| Cycle Q Clear(g_c), s | 0.7 | 0.0 | 22.0 | 1.1 | 8.3 | 8.9 | 7.5 | 0.0 | 21.5 | 10.5 | 0.0 | 10.3 |
| Prop In Lane | 1.00 | | 0.19 | 1.00 | | 1.00 | 1.00 | | 0.05 | 1.00 | | 0.02 |
| Lane Grp Cap(c), veh/h | 31 | 0 | 548 | 46 | 584 | 485 | 204 | 0 | 551 | 273 | 0 | 627 |
| V/C Ratio(X) | 0.48 | 0.00 | 0.92 | 0.52 | 0.41 | 0.44 | 0.82 | 0.00 | 0.92 | 0.86 | 0.00 | 0.48 |
| Avail Cap(c_a), veh/h | 131 | 0 | 591 | 131 | 613 | 509 | 267 | 0 | 593 | 293 | 0 | 627 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 39.6 | 0.0 | 27.3 | 39.2 | 22.1 | 22.3 | 35.2 | 0.0 | 27.6 | 33.6 | 0.0 | 21.3 |
| Incr Delay (d2), s/veh | 10.8 | 0.0 | 18.9 | 9.0 | 0.5 | 0.6 | 13.9 | 0.0 | 18.7 | 21.0 | 0.0 | 0.6 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.4 | 0.0 | 11.4 | 0.6 | 3.4 | 3.0 | 3.8 | 0.0 | 11.3 | 5.8 | 0.0 | 4.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 50.4 | 0.0 | 46.2 | 48.1 | 22.6 | 22.9 | 49.1 | 0.0 | 46.4 | 54.6 | 0.0 | 21.9 |
| LnGrp LOS | D | A | D | D | C | C | D | A | D | D | A | C |
| Approach Vol, veh/h | | 519 | | | 478 | | | 673 | | | 534 | |
| Approach Delay, s/veh | | 46.3 | | | 24.0 | | | 47.0 | | | 36.3 | |
| Approach LOS | | D | | | C | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 16.5 | 29.2 | 6.1 | 29.7 | 13.3 | 32.3 | 5.4 | 30.3 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 13.4 | 26.1 | 6.0 | 26.7 | 12.2 | 27.3 | 6.0 | 26.7 |
| Max Q Clear Time (g_c+I1), s | 12.5 | 23.5 | 3.1 | 24.0 | 9.5 | 12.3 | 2.7 | 10.9 |
| Green Ext Time (p_c), s | 0.1 | 0.7 | 0.0 | 0.8 | 0.1 | 1.3 | 0.0 | 1.7 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 39.3 |
| HCM 6th LOS | D |

4: Minnewawa Ave & Behymer Ave Cumulative (Year 2045) With Project-
Queues

12/20/2023

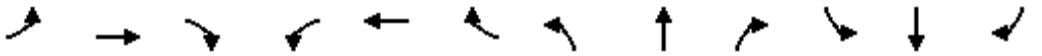


| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | SBL | SBT |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 15 | 528 | 24 | 241 | 266 | 167 | 513 | 235 | 301 |
| v/c Ratio | 0.12 | 0.90 | 0.19 | 0.38 | 0.38 | 0.70 | 0.90 | 0.83 | 0.49 |
| Control Delay | 41.1 | 48.8 | 42.5 | 23.5 | 4.7 | 52.2 | 50.0 | 61.2 | 26.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 41.1 | 48.8 | 42.5 | 23.5 | 4.7 | 52.2 | 50.0 | 61.2 | 26.5 |
| Queue Length 50th (ft) | 7 | 238 | 12 | 91 | 0 | 79 | 235 | 114 | 116 |
| Queue Length 95th (ft) | 28 | #498 | 38 | 180 | 55 | #181 | #487 | #267 | 222 |
| Internal Link Dist (ft) | | 5395 | | 1520 | | | 2614 | | 2532 |
| Turn Bay Length (ft) | | | | | | | | | |
| Base Capacity (vph) | 128 | 589 | 128 | 642 | 708 | 260 | 583 | 286 | 617 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.12 | 0.90 | 0.19 | 0.38 | 0.38 | 0.64 | 0.88 | 0.82 | 0.49 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

5: Minnewawa Ave & Shepherd Ave Cumulative (Year 2045) With Project-
HCM 6th Signalized Intersection Summary
12/20/2023



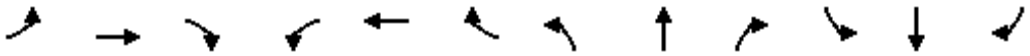
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 173 | 1141 | 218 | 155 | 934 | 211 | 313 | 707 | 182 | 179 | 521 | 127 |
| Future Volume (veh/h) | 173 | 1141 | 218 | 155 | 934 | 211 | 313 | 707 | 182 | 179 | 521 | 127 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.97 | 1.00 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 188 | 1240 | 190 | 168 | 1015 | 183 | 340 | 768 | 159 | 195 | 566 | 111 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 208 | 1228 | 536 | 180 | 1171 | 511 | 345 | 900 | 391 | 215 | 642 | 278 |
| Arrive On Green | 0.12 | 0.35 | 0.35 | 0.10 | 0.33 | 0.33 | 0.19 | 0.25 | 0.25 | 0.12 | 0.18 | 0.18 |
| Sat Flow, veh/h | 1781 | 3554 | 1550 | 1781 | 3554 | 1549 | 1781 | 3554 | 1544 | 1781 | 3554 | 1536 |
| Grp Volume(v), veh/h | 188 | 1240 | 190 | 168 | 1015 | 183 | 340 | 768 | 159 | 195 | 566 | 111 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1777 | 1550 | 1781 | 1777 | 1549 | 1781 | 1777 | 1544 | 1781 | 1777 | 1536 |
| Q Serve(g_s), s | 10.3 | 34.3 | 9.1 | 9.3 | 26.6 | 8.9 | 18.9 | 20.4 | 8.5 | 10.7 | 15.4 | 6.3 |
| Cycle Q Clear(g_c), s | 10.3 | 34.3 | 9.1 | 9.3 | 26.6 | 8.9 | 18.9 | 20.4 | 8.5 | 10.7 | 15.4 | 6.3 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 208 | 1228 | 536 | 180 | 1171 | 511 | 345 | 900 | 391 | 215 | 642 | 278 |
| V/C Ratio(X) | 0.90 | 1.01 | 0.35 | 0.94 | 0.87 | 0.36 | 0.99 | 0.85 | 0.41 | 0.91 | 0.88 | 0.40 |
| Avail Cap(c_a), veh/h | 208 | 1228 | 536 | 180 | 1171 | 511 | 345 | 928 | 403 | 215 | 670 | 289 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 43.3 | 32.5 | 24.2 | 44.3 | 31.2 | 25.3 | 39.9 | 35.3 | 30.8 | 43.1 | 39.6 | 35.9 |
| Incr Delay (d2), s/veh | 36.9 | 28.0 | 0.4 | 48.9 | 7.1 | 0.4 | 44.7 | 7.6 | 0.7 | 36.6 | 12.7 | 0.9 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 6.5 | 18.2 | 3.1 | 6.3 | 11.6 | 3.1 | 12.0 | 9.2 | 3.0 | 6.7 | 7.5 | 2.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 80.2 | 60.5 | 24.6 | 93.2 | 38.3 | 25.7 | 84.6 | 42.9 | 31.5 | 79.6 | 52.3 | 36.8 |
| LnGrp LOS | F | F | C | F | D | C | F | D | C | E | D | D |
| Approach Vol, veh/h | | 1618 | | | 1366 | | | 1267 | | | 872 | |
| Approach Delay, s/veh | | 58.6 | | | 43.4 | | | 52.7 | | | 56.5 | |
| Approach LOS | | E | | | D | | | D | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 16.0 | 30.0 | 14.0 | 39.2 | 23.2 | 22.8 | 15.6 | 37.6 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 12.0 | 25.9 | 10.0 | 34.3 | 19.2 | 18.7 | 11.6 | 32.7 |
| Max Q Clear Time (g_c+I1), s | 12.7 | 22.4 | 11.3 | 36.3 | 20.9 | 17.4 | 12.3 | 28.6 |
| Green Ext Time (p_c), s | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 2.5 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 52.7 |
| HCM 6th LOS | D |

# 5: Minnewawa Ave & Shepherd Ave Cumulative (Year 2045) With Project-Queues

12/20/2023



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 188 | 1240 | 237 | 168 | 1015 | 229 | 340 | 768 | 198 | 195 | 566 | 138 |
| v/c Ratio | 0.91 | 1.02 | 0.38 | 0.94 | 0.87 | 0.36 | 1.00 | 0.85 | 0.37 | 0.92 | 0.87 | 0.34 |
| Control Delay | 88.7 | 63.5 | 11.1 | 101.0 | 41.3 | 6.6 | 90.0 | 45.6 | 6.4 | 88.1 | 55.4 | 7.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 88.7 | 63.5 | 11.1 | 101.0 | 41.3 | 6.6 | 90.0 | 45.6 | 6.4 | 88.1 | 55.4 | 7.3 |
| Queue Length 50th (ft) | 120 | ~444 | 37 | 108 | 318 | 10 | ~219 | 244 | 0 | 125 | 185 | 0 |
| Queue Length 95th (ft) | #251 | #577 | 98 | #237 | #433 | 62 | #400 | #336 | 53 | #259 | #273 | 42 |
| Internal Link Dist (ft) | | 2560 | | | 1263 | | | 2631 | | | 2555 | |
| Turn Bay Length (ft) | 250 | | 45 | 250 | | 200 | 250 | | | 255 | | 25 |
| Base Capacity (vph) | 206 | 1219 | 630 | 178 | 1163 | 644 | 341 | 921 | 547 | 213 | 664 | 411 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.91 | 1.02 | 0.38 | 0.94 | 0.87 | 0.36 | 1.00 | 0.83 | 0.36 | 0.92 | 0.85 | 0.34 |

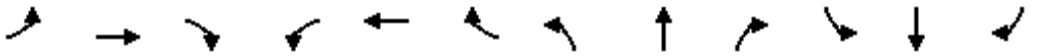
Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

7: Clovis Ave & Shepherd Ave Cumulative (Year 2045) With Project-
HCM 6th Signalized Intersection Summary

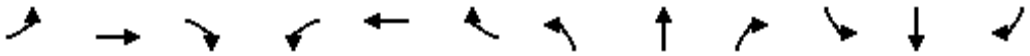
12/20/2023



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 224 | 921 | 170 | 291 | 934 | 202 | 234 | 724 | 374 | 170 | 306 | 187 |
| Future Volume (veh/h) | 224 | 921 | 170 | 291 | 934 | 202 | 234 | 724 | 374 | 170 | 306 | 187 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.98 | 1.00 | | 0.98 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 243 | 1001 | 148 | 316 | 1015 | 177 | 254 | 787 | 325 | 185 | 333 | 163 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 320 | 1205 | 527 | 398 | 1286 | 562 | 335 | 1001 | 437 | 257 | 920 | 401 |
| Arrive On Green | 0.09 | 0.34 | 0.34 | 0.12 | 0.36 | 0.36 | 0.10 | 0.28 | 0.28 | 0.07 | 0.26 | 0.26 |
| Sat Flow, veh/h | 3456 | 3554 | 1554 | 3456 | 3554 | 1555 | 3456 | 3554 | 1552 | 3456 | 3554 | 1550 |
| Grp Volume(v), veh/h | 243 | 1001 | 148 | 316 | 1015 | 177 | 254 | 787 | 325 | 185 | 333 | 163 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1554 | 1728 | 1777 | 1555 | 1728 | 1777 | 1552 | 1728 | 1777 | 1550 |
| Q Serve(g_s), s | 6.4 | 24.3 | 6.5 | 8.4 | 23.9 | 7.7 | 6.7 | 19.2 | 17.9 | 4.9 | 7.2 | 8.2 |
| Cycle Q Clear(g_c), s | 6.4 | 24.3 | 6.5 | 8.4 | 23.9 | 7.7 | 6.7 | 19.2 | 17.9 | 4.9 | 7.2 | 8.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 320 | 1205 | 527 | 398 | 1286 | 562 | 335 | 1001 | 437 | 257 | 920 | 401 |
| V/C Ratio(X) | 0.76 | 0.83 | 0.28 | 0.79 | 0.79 | 0.31 | 0.76 | 0.79 | 0.74 | 0.72 | 0.36 | 0.41 |
| Avail Cap(c_a), veh/h | 442 | 1482 | 648 | 553 | 1595 | 698 | 527 | 1330 | 581 | 332 | 1129 | 493 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 41.5 | 28.5 | 22.6 | 40.4 | 26.7 | 21.6 | 41.3 | 31.1 | 30.6 | 42.5 | 28.4 | 28.8 |
| Incr Delay (d2), s/veh | 5.0 | 3.4 | 0.3 | 5.4 | 2.2 | 0.3 | 3.5 | 2.3 | 3.6 | 5.3 | 0.2 | 0.7 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.8 | 9.9 | 2.2 | 3.6 | 9.5 | 2.6 | 2.9 | 8.0 | 6.6 | 2.2 | 2.9 | 2.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 46.5 | 32.0 | 22.9 | 45.8 | 28.9 | 21.9 | 44.8 | 33.4 | 34.2 | 47.8 | 28.7 | 29.4 |
| LnGrp LOS | D | C | C | D | C | C | D | C | C | D | C | C |
| Approach Vol, veh/h | | 1392 | | | 1508 | | | 1366 | | | 681 | |
| Approach Delay, s/veh | | 33.5 | | | 31.6 | | | 35.7 | | | 34.0 | |
| Approach LOS | | C | | | C | | | D | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 11.0 | 31.3 | 14.8 | 36.7 | 13.1 | 29.2 | 12.7 | 38.8 |
| Change Period (Y+Rc), s | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 | 4.0 | 4.9 |
| Max Green Setting (Gmax), s | 9.0 | 35.1 | 15.0 | 39.1 | 14.3 | 29.8 | 12.0 | 42.1 |
| Max Q Clear Time (g_c+I1), s | 6.9 | 21.2 | 10.4 | 26.3 | 8.7 | 10.2 | 8.4 | 25.9 |
| Green Ext Time (p_c), s | 0.1 | 5.2 | 0.5 | 5.5 | 0.4 | 2.4 | 0.3 | 6.4 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 33.6 |
| HCM 6th LOS | C |



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 243 | 1001 | 185 | 316 | 1015 | 220 | 254 | 787 | 407 | 185 | 333 | 203 |
| v/c Ratio | 0.67 | 0.85 | 0.31 | 0.72 | 0.81 | 0.32 | 0.63 | 0.77 | 0.73 | 0.65 | 0.37 | 0.38 |
| Control Delay | 57.7 | 42.2 | 10.8 | 56.0 | 37.6 | 4.9 | 53.8 | 41.2 | 29.8 | 61.1 | 35.2 | 6.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 57.7 | 42.2 | 10.8 | 56.0 | 37.6 | 4.9 | 53.8 | 41.2 | 29.8 | 61.1 | 35.2 | 6.9 |
| Queue Length 50th (ft) | 91 | 357 | 27 | 117 | 348 | 1 | 93 | 277 | 168 | 70 | 107 | 0 |
| Queue Length 95th (ft) | 135 | 448 | 82 | 167 | 437 | 52 | 137 | 350 | 289 | #117 | 151 | 58 |
| Internal Link Dist (ft) | | 1234 | | | 1233 | | | 1070 | | | 873 | |
| Turn Bay Length (ft) | 250 | | 50 | 250 | | 255 | 235 | | 65 | 255 | | 100 |
| Base Capacity (vph) | 393 | 1320 | 658 | 491 | 1422 | 751 | 468 | 1185 | 621 | 295 | 1006 | 584 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.62 | 0.76 | 0.28 | 0.64 | 0.71 | 0.29 | 0.54 | 0.66 | 0.66 | 0.63 | 0.33 | 0.35 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

# Warrant 3: Peak Hour

**2: Minnewawa Ave & International Ave - 2045 W Proj**

**Intersection Information:**

| | Major Street | Minor Street |
|---|---|---|
| **Street Name** | Minnewawa Ave | International Ave |
| **Direction** | NB/SB | EB/WB |
| **Number of Lanes** | 1 | 1 |
| **Approach Speed** | 50 | 50 |

**Warrant 3 Met?** **Yes**

**Details**

**Low Population?** No

**Condition A Met?** No

**Notes** 0 Hours met (1 required)

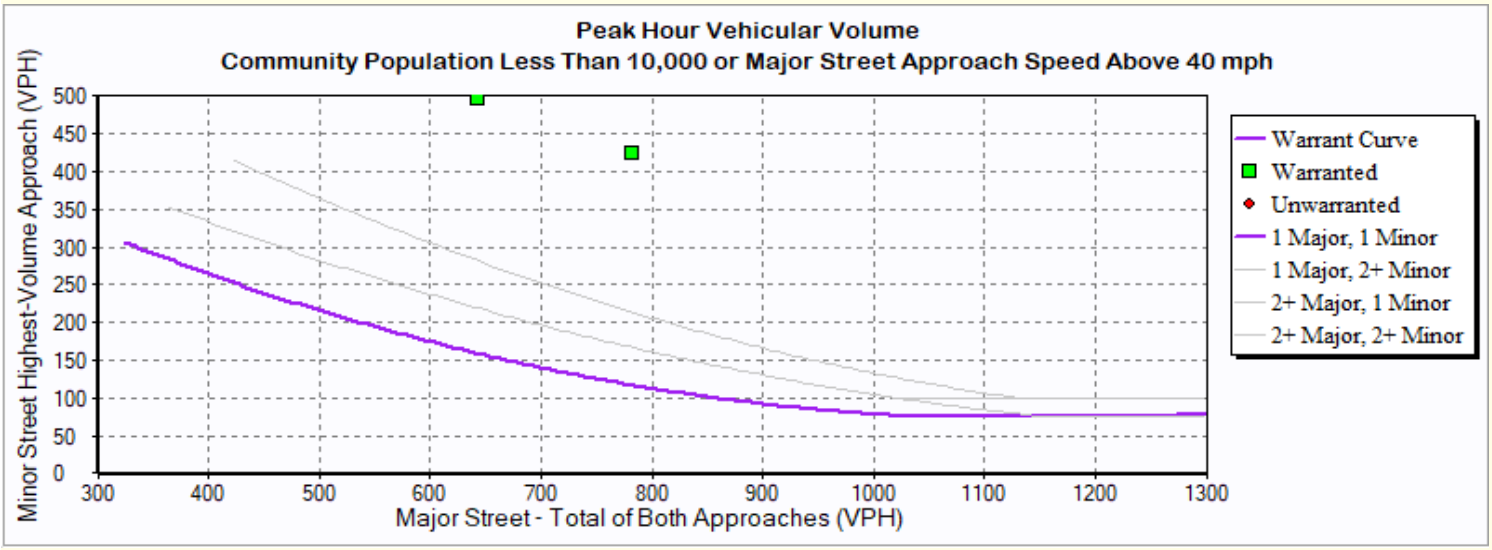
**Condition B Met?** Yes

**Notes** 2 Hours met (1 required)

Minor Approach Time Delay Condition Met? Not Met

Minor Approach Volume Condition Met? Met

Total Entering Intersection Volume Condition Met? Not Met



# Warrant 3: Peak Hour

**2: Minnewawa Ave & International Ave - 2045 W Proj**

| Hour | Major Street<br>Total All Approaches (vph) | Minor Street<br>Highest Volume Approach (vph) |
|---|---|---|
| 7:30 | 643 | 606 |
| 17:00 | 783 | 424 |

# Warrant 3: Peak Hour

**4: Minnewawa Ave & Behymer Ave - 2045 W Proj**

**Intersection Information:**

| | Major Street | Minor Street |
|---|---|---|
| **Street Name** | Minnewawa Ave | Behymer Ave |
| **Direction** | NB/SB | EB/WB |
| **Number of Lanes** | 1 | 1 |
| **Approach Speed** | 50 | 45 |

**Warrant 3 Met?** Yes

**Details**

**Low Population?** No

**Condition A Met?** No

**Notes** 0 Hours met (1 required)

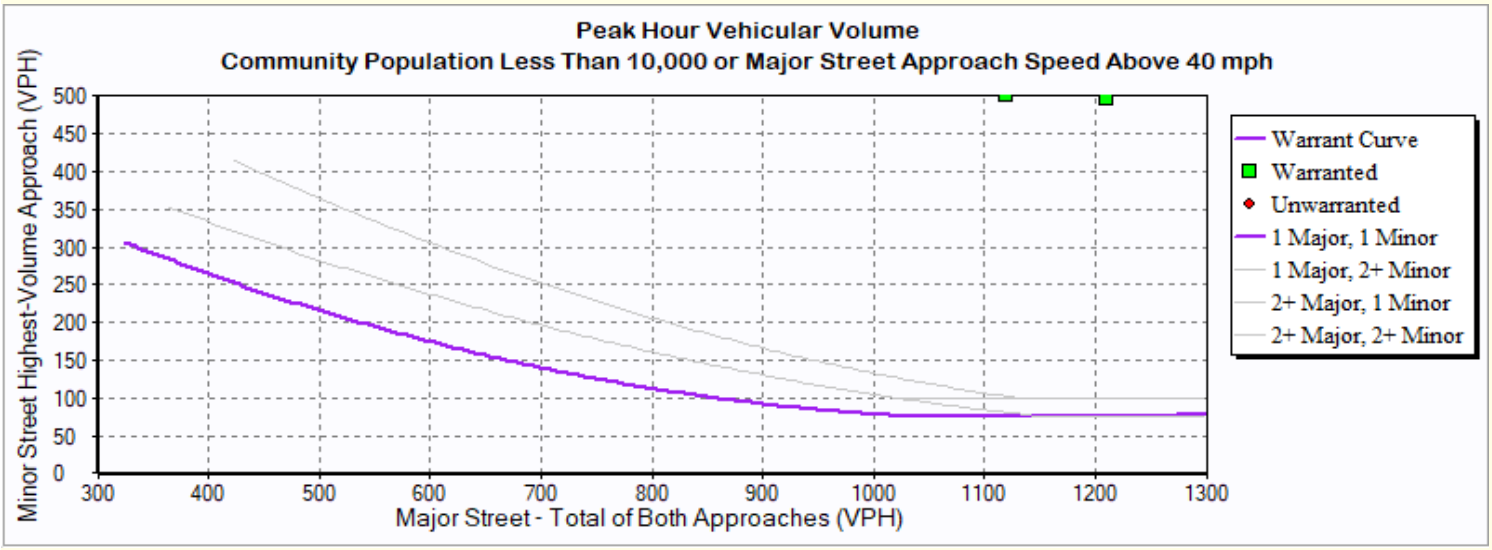
**Condition B Met?** Yes

**Notes** 2 Hours met (1 required)

Minor Approach Time Delay Condition Met? Not Met

Minor Approach Volume Condition Met? Met

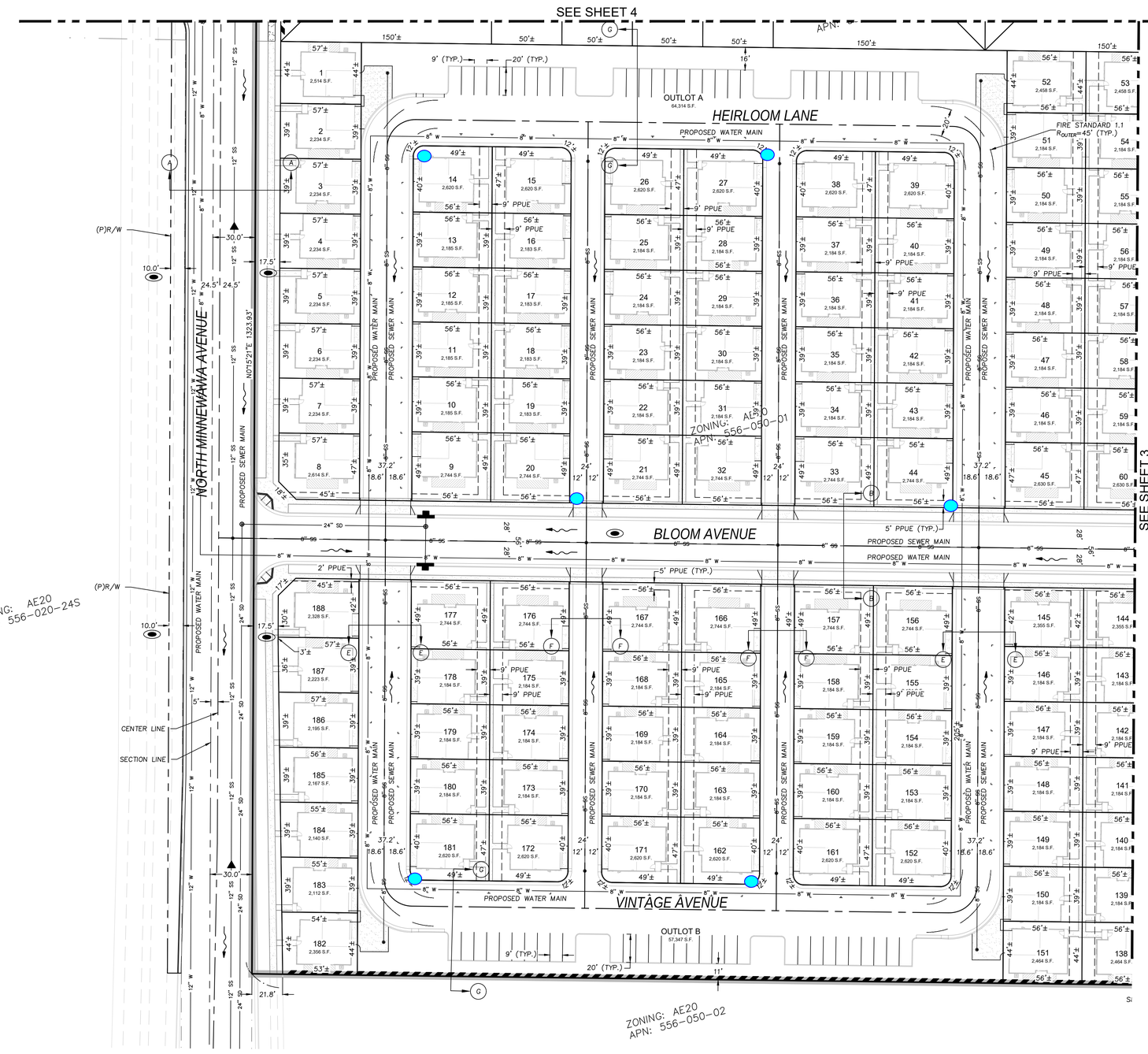
Total Entering Intersection Volume Condition Met? Not Met



# Warrant 3: Peak Hour

**4: Minnewawa Ave & Behymer Ave - 2045 W Proj**

| Hour | Major Street<br>Total All Approaches (vph) | Minor Street<br>Highest Volume Approach (vph) |
|---|---|---|
| 7:15 | 1,211 | 980 |
| 17:00 | 1,119 | 500 |




*LEGEND*

- PUBLIC STREET TO BE OFFERED IN FEE TO THE CITY OF CLOVIS FOR PUBLIC USE.
- ▲ CONVEYED TO THE COUNTY OF FRESNO PER DEED RECORDED DEC. 14, 1976, IN BOOK 6706, PAGE 288 O.R.F.C., AS DOCUMENT NO. 111542.

# Fire Hydrant Markings
# Page 1 of 4

SCALE: 1" = 40'
0 20' 40' 80'

REGISTERED PROFESSIONAL ENGINEER BRANDON A. BROUSSARD No. 64518 CIVIL STATE OF CALIFORNIA

Yamabe & Horn Engineering, Inc.
CIVIL ENGINEERS • LAND SURVEYORS
2985 N. BURL AVENUE SUITE 101 FRESNO, CA 93727
TEL: (559) 244-3123 WEBSITE: YANDHENGR.COM

| APPROVALS | APPROVED (INITIALS) |
|---|---|
| CONSTRUCTION MANAGEMENT | |
| FEE ADMINISTRATION | |
| DEVELOPMENT REVIEW | |
| STREETS | |
| PARKS | |
| SOLID WASTE | |
| UTILITIES | |

| REVISIONS | DATE | APPROVED |
|---|---|---|
| △ | | |
| △ | | |
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| △ | | |
| △ | | |

CITY OF CLOVIS

PLANNING AND DEVELOPMENT SERVICES DEPARTMENT

PROJECT TITLE
TRACT NO. 6375
MINNEWAWA & SHEPHERD

SHEET DESCRIPTION
MULTI-FAMILY

Y&H No. 21-156
Dr. By: CR
Ch. By: BB
Date: 8/8/2023

Project No.

Sheet No. 2 of 6 Sheets

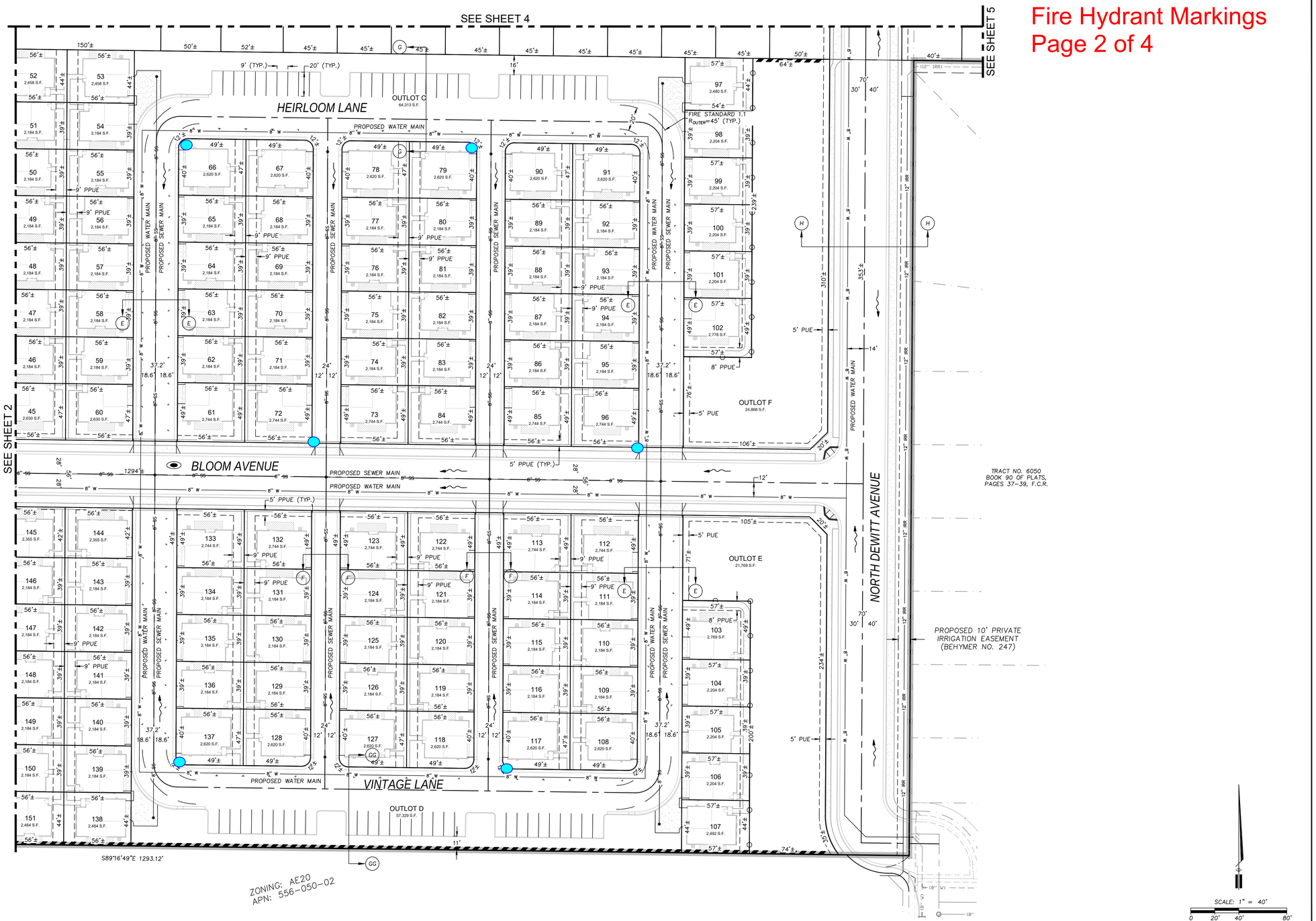
Plot By: Alec Sandoval Plot Date: 10/14/2024 File Location: F:\2021\21-156\dwg\Mapsi\Tentative Map\21-156_TTM_SHT 2.dwg

**Attachment 10**

## LEGEND

PUBLIC STREET TO BE OFFERED IN FEE TO THE CITY OF CLOVIS FOR PUBLIC USE.

# Fire Hydrant Markings
# Page 2 of 4

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|---|---|
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| DEVELOPMENT REVIEW | |
| STREETS | |
| PARKS | |
| SOLID WASTE | |
| UTILITIES | |

| REVISIONS | DATE | APPROVED |
|---|---|---|
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CITY OF CLOVIS

PROJECT TITLE
TRACT NO. 6375
MINNEWAWA & SHEPHERD

SHEET DESCRIPTION
MULTI-FAMILY

PLANNING AND DEVELOPMENT SERVICES DEPARTMENT

Project No.

Y&H No. 21-156
Dr. By: CR
Ch. By: BB
Date: 8/8/2023

Sheet No. 3 of 6 Sheets

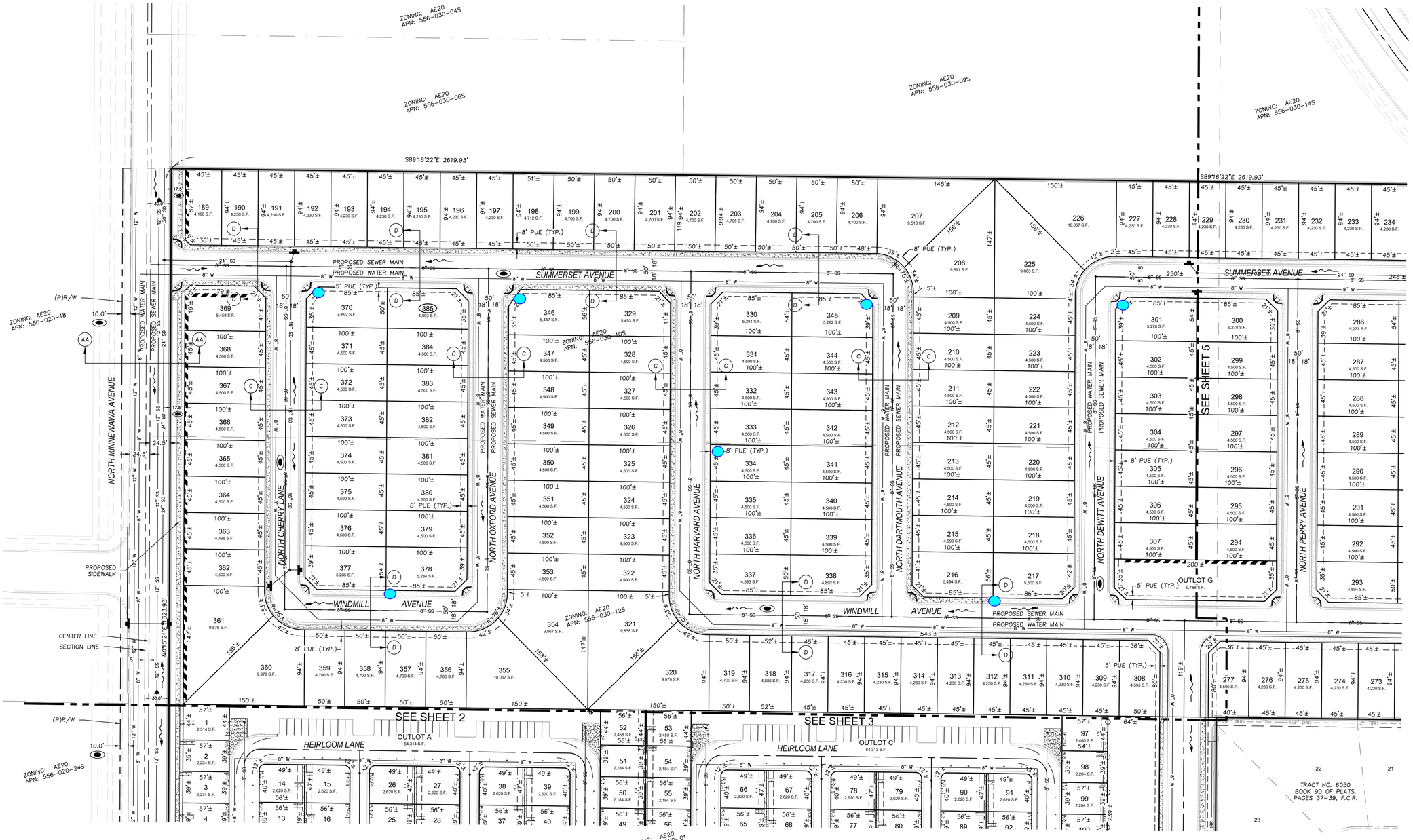
Plot By: Alec Sandoval Plot Date: 10/14/2024 File Location: F:\2021\21-156\dwg\Map\Tentative Map\21-156_TTM_SHT 3.dwg

# Fire Hydrant Markings
Page 3 of 4

LEGEND

PUBLIC STREET TO BE OFFERED IN FEE TO THE CITY OF CLOVIS FOR PUBLIC USE.

CONVEYED TO THE COUNTY OF FRESNO PER DEED RECORDED DEC. 14, 1976, IN BOOK 6706, PAGE 288 O.R.F.C., AS DOCUMENT NO. 111542.

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STATE OF CALIFORNIA

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2985 N. BURL AVENUE SUITE 101 FRESNO, CA 93727
TEL: (559) 244-3123 WEBSITE: YANDHENGR.COM

APPROVALS

| | APPROVED (INITIALS) |
|---|---|
| CONSTRUCTION MANAGEMENT | |
| FEE ADMINISTRATION | |
| DEVELOPMENT REVIEW | |
| STREETS | |
| PARKS | |
| SOLID WASTE | |
| UTILITIES | |

| REVISIONS | DATE | APPROVED |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

CITY OF CLOVIS

PLANNING AND DEVELOPMENT SERVICES DEPARTMENT

PROJECT TITLE
TRACT NO. 6375
MINNEWAWA & SHEPHERD

Project No.

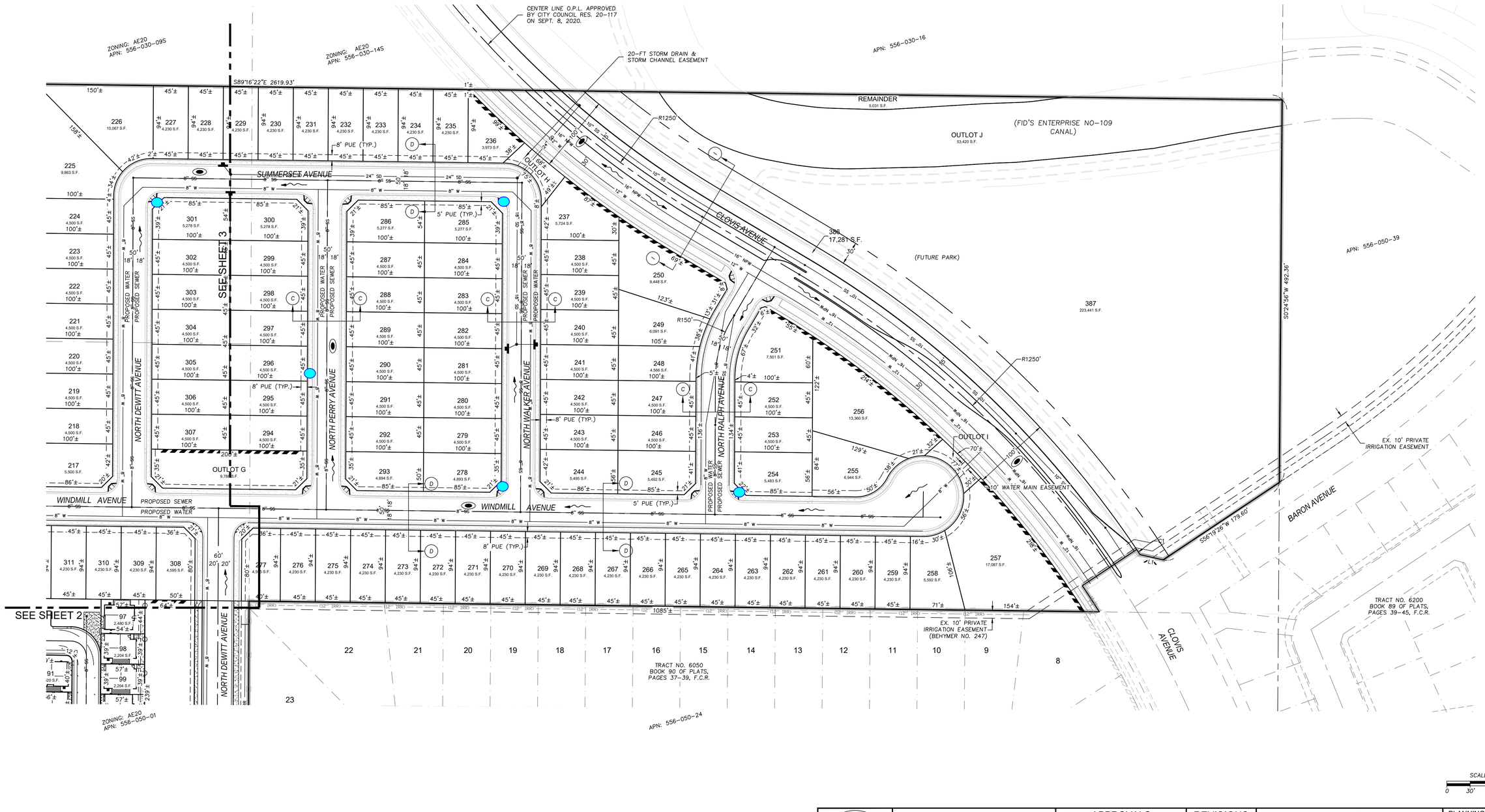
Y&H No. 21-156
Dr. By: CR
Ch. By: BB
Date: 8/8/2023

SHEET DESCRIPTION
RESIDENTIAL

Sheet No. 4 of 6 Sheets

Plot By: Alec Sandoval Plot Date: 10/14/2024 File Location: F:\2021\21-156\dwg\Maps\Tentative Map\21-156_TTM_SHT 4.dwg

# Fire Hydrant Markings
# Page 4 of 4




SCALE: 1" = 60'

0 30' 60' 120'

REGISTERED PROFESSIONAL ENGINEER
BRANDON A. BROUSSARD
No. 64518
CIVIL
STATE OF CALIFORNIA

Yamabe & Horn Engineering, Inc.
CIVIL ENGINEERS • LAND SURVEYORS
2985 N. BURL AVENUE SUITE 101 FRESNO, CA 93727
TEL: (559) 244-3123 WEBSITE: YANDHENGR.COM

APPROVALS (INITIALS)

| | APPROVED |
|---|---|
| CONSTRUCTION MANAGEMENT | |
| FEE ADMINISTRATION | |
| DEVELOPMENT REVIEW | |
| STREETS | |
| PARKS | |
| SOLID WASTE | |
| UTILITIES | |

REVISIONS

| DATE | APPROVED |
|---|---|
| △ | |
| △ | |
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CITY OF CLOVIS

PLANNING AND DEVELOPMENT SERVICES DEPARTMENT

PROJECT TITLE
TRACT NO. 6375
MINNEWAWA & SHEPHERD

SHEET DESCRIPTION
RESIDENTIAL

Y&H No. 21-156
Dr. By: CR
Ch. By: BB
Date: 8/8/2023

Project No.

Sheet No. 5 of 6 Sheets

Plot By: Alec Sandoval Plot Date: 10/14/2024 File Location: F:\2021\21-156\dwg\Maps\Tentative Map\21-156_TTM_SHT 5.dwg

2907 S. Maple Avenue
Fresno, California 93725-2208
Telephone: (559) 233-7161
Fax: (559) 233-8227

CONVEYANCE. COMMITMENT. CUSTOMER SERVICE.

October 7, 2024

Liz Salazar
Planning Division
City of Clovis
1033 Fifth Street
Clovis, CA 93612

RE: Tract Map 6375
N/W Shepherd and Clovis avenues
FID's Enterprise No. 109

Dear Ms. Salazar:

The Fresno Irrigation District (FID) has reviewed the Tract Map 6375 for which the applicant request approval for a 387-lot single-family planned residential development, APNS: 556-030-10S, 12S, 556-050-01, 35S. This entitlement is being processed concurrently with RO310, R2024-005, and PDP2024-001. FID has the following comment:

1. FID previously reviewed and commented on the subject property on March 8, 2022, as Development Review Committee Application no. 2022-009.Those comments and conditions still apply, and a copy has been attached for your reference.

Thank you for submitting this for our review. We appreciate the opportunity to review and comment on the subject documents for the proposed project. If you have any questions, please feel free to contact Chris Lundeen at (559) 233-7161 extension 7410 or clundeen@fresnoirrigation.com.

Sincerely,

Laurence Kimura, P.E.
Chief Engineer

Attachment

G:\Agencies\Clovis\Tract Map\TM6375\TM6375 FID Comment.doc

BOARD OF DIRECTORS President RYAN JACOBSEN Vice-President JERRY PRIETO, JR. CHRISTOPHER WO
GEORGE PORTER GREGORY BEBERIAN General Manager BILL STRETCH

2907 S. Maple Avenue
Fresno, California 93725-2208
Telephone: (559) 233-7161
Fax: (559) 233-8227

CONVEYANCE. COMMITMENT. CUSTOMER SERVICE.

March 8, 2022

Kelsey George
Planning and Development Services Dept.
City of Clovis
1033 Fifth Street
Clovis, CA 93612

RE: Development Review Committee Application No. 2022-009
N/W Clovis and Shepherd avenues
FID's Enterprise No. 109

Dear Ms. George:

The Fresno Irrigation District (FID) has reviewed the Development Review Committee Application No. 2022-009 for which the applicant proposes a 369-lot single-family development (TTM 6375) in Heritage Grove, APNs: 556-030-10S, 12S, 556-050-01, 35S. FID has the following comments:

**Summary of Requirements:**

- Grant of Easement w/ 20-feet full width drive banks
- Canal Bank Improvements
- Channel Improvements
- Drive Approaches per FID Detail No. 1-02
- Existing Encroachments removed and/or relocated if any
- Review and Approval of all Plans
- Execute additional Agreement(s), if necessary
- Project Fees
- No Encroachments (i.e. trees, monuments, fences, PUE, etc.)

**Area of Concern 1**

1. FID's active Enterprise No. 109 Canal runs northwesterly, crosses Shepherd Avenue and Sunnyside Avenue approximately 2,600 feet southeast of the subject property, Baron Avenue approximately 360 feet east of the subject property and traverses the subject property as shown on the attached FID exhibit map and will be impacted by the future development. Records do not show a recorded easement; however, FID does own an easement and the width is as shown on FID's attached Standard Detail Page No. 1-01. Should this project include any street and or utility improvements along Shepherd Avenue, Sunnyside Avenue, Baron Avenue or in the vicinity of the canal, FID requires it review and approve all plans.



BOARD OF DIRECTORS President RYAN JACOBSEN Vice-President JERRY PRIETO, JR. CHRISTOPHER WOOLF
GEORGE PORTER GREGORY BEBERIAN General Manager BILL STRETCH

2. FID requires that, within the limits of the proposed project [and its remainder], the landowner grant an exclusive easement for the land underlying the canal and associated area along the canal required for maintenance pursuant to Water Code Section 22425 and FID policy. FID's District Canal Right-of-Way Requirements sheet is enclosed for your reference. The proposed easement (width) will depend on several factors including: 1) Width of canal, 2) height of canal banks, 3) final alignment of canal, 4) additional space needed where roads/avenues intersect canal, etc.

3. FID requires that the Engineer/Land Surveyor use the inside top hinge of the canal to define the edge of FID's right-of-way such that FID has a minimum of 20-feet at all points along the top of the canal bank. There are no minimum or suggested numbers of survey shots to take but, there must be enough survey points such that the top inside hinge of the canal bank is properly identified. Before finalizing the Final Maps, the Engineer/Land Surveyor will need to stake both the inside top hinge and the right-of-way/property for FID Staff to field evaluate an adequate width. FID staff must field verify the right-of-way/property boundary and the hinge line edge before signing plans to ensure that there are enough survey points to properly define the canal.

4. Typically, for any type of development that impacts a large open canal or is adjacent to one such as the Enterprise Canal, FID requires the developer to improve the canal with either concrete lining, encasing the canal in a box culvert, or other approved means to protect the canal's integrity for an urban setting. FID does not have sufficient information to determine what kind of improvements will ultimately be required as part of the development. The engineers working on the project and FID's engineering staff must meet to discuss specific requirements as discussed below. In order to meet the "urban" standards for the canal, FID will require the following minimum conditions:

    a. Channel Stabilization: The proposed plan does not indicate any improvements to the Canal. If the Developer is not willing to concrete line the Canal or place it underground within a box culvert, they must come up with another means acceptable to and approved by FID to protect the Canal's integrity. On similar projects, Developers typically propose the following:

        i. Surrounding Development – All proposed building pad elevations must be a minimum of 12-inches above the canal's high water, unless separated by a roadway with curb and gutter.

        ii. Freeboard – FID typically requires between 1.0 to 1.5 feet of freeboard. Because the Canal is used to route stormwaters, and is one of the larger canals used to convey the stormwater, FID will require a minimum of 1.5 feet of freeboard and a maximum of 2.0 feet. The Developer will be required to either import or export material to match FID's standards.

        iii. Maintenance – this reach of Canal does have a history of high loads of sediment deposits which requires periodic dredging. FID will typically dredge the Canal and deposit the spoils on top of the banks to dry out.

Once the spoil has dried, FID will flatten the spoil as time permits. This reach of Canal also has large volumes of trash, debris, shopping carts that are deposited into the Canal. FID's crews will typically remove the trash at the Shepherd Avenue bridge and another crew will come by to remove the trash. The hauling off of this material may occur several weeks after the trash has been placed on the side of the canal, and the trash may be considered a nuisance (sight and smell). If the Developer and/or City require a different level of maintenance effort, they will need to enter into an agreement for that purpose. The City and/or Developer will be responsible to fund the "higher level" of maintenance.

b. Drive banks/maintenance roads and encroachments (both banks):

   i. Both banks must be of full-width cross section to the outside limits of the canal easement.

   ii. One or both of the drive banks must be sloped a minimum of 2% away from the canal, 4% maximum, with provisions made for rainfall. Drainage will not be accepted into the Canal and must be routed away from FID property/drive banks. Runoff must be conveyed to nearby public streets or drainage system by drainage swales or other FID acceptable alternatives.

   iii. One or both of the drive banks shall be overlaid with 3 inches of Class II aggregate base for all-weather access and for dust suppression.

   iv. Encroachments - All existing trees, bushes, debris, fencing, and other structures must be removed within FID's property/easement.

5. Trail - It is FID's understanding that a trail is master-planned along the Enterprise canal bank. As with other developments with trails proposed along the canals, FID will not allow the trail to encroach/overlap FID's canal easement. The following requirements are intended for trail projects adjacent to FID-owned properties and right-of-ways for open canals:

   a. FID will not allow the trail easement to be in common use with FID-owned property or easements.

   b. FID requires all trail improvements be placed outside of FID-owned properties and easements.

   c. FID will not allow any portion of a tree canopy to encroach within its properties or easements.

   d. FID's canals will not accept any drainage from the trail or the canal bank.

e. FID may require some improvements be made to the canal depending on the existing canal condition, the proposed trail, and the adjacent development.

6. A Trail fence between Trail and Canal is required unless an agreement is in place between City of Clovis and FID.

7. If a fence will be installed between the development and open canal, a block/masonry wall shall be required. Chain-link and wood fencing will no longer be accepted for urban developments.

8. Should a trail or walkway be placed adjacent to the canal, FID will require a minimum 4 feet tall pedestrian barrier for this development, located outside of its right-of-way, on both sides of the canal, for the length of the development. FID is open to suggestions regarding design.

9. Canal Access – FID will require access from future Clovis Avenue. In order to access the maintenance road with our larger equipment, FID requires a drive approach wide enough to accommodate the equipment. FID proposes a 50-foot wide drive approach narrowing to a 20 feet wide drive bank (See attached "Drive Approach in Urban Areas" Detail No. 1-02). The 50-foot width is defined as starting from the end portion of the bridge/railing outward (away from the bridge). Every road and canal intersection is different and therefore each access will be different. The major factors affecting the proposed width will be the angle of the road intersecting the Canal, grade of canal bank vs. City road, median vs. no median, etc.

**Impacted Private Facilities**

1. For informational purposes, a Private pipeline known as the Behymer No. 427 traverses the subject property as shown on the attached FID exhibit map and will be impacted by the proposed project. FID's records indicate this Private pipeline is active and should be treated as such. FID can supply the City with a list of known users upon request.

**Fresno Metropolitan Flood Control District**

1. FMFCD's Hewitt Creek No. 496 traverses the subject property as shown on the attached FID exhibit map and will be impacted by the proposes project. FID's recommends contacting FMFCD for further comments/requirements.

**General Comments**

1. FID requires the applicant and or the applicant's engineer contact FID at their earliest convenience to discuss specific requirements.

2. FID requires its easements be shown on all maps/plans with proper recording information, and that FID be made a party to signing the final map.

3. FID does not allow FID owned property or easements to be in common use with public utility easements but will in certain instances allow for its property to be in common use with landscape easements and trails if the City of Clovis enters into the appropriate agreement.

4. FID requires the applicant to submit for FID's approval a grading and drainage plan which shows that the proposed development will not endanger the structural integrity of the Canal, or result in drainage patterns that could adversely affect FID.

5. FID requires its review and approval of all improvement plans which affect its property/easements and canal/pipeline facilities including but not limited to Sewer, Water, Fresno Metropolitan Flood Control District (FMFCD), Street, Landscaping, Dry Utilities, and all other utilities.

6. Footings of retaining walls shall not encroach onto FID property/easement areas.

7. FID requires its review and approval of all Private and Public facilities that encroach into FID's property/easement. If FID allows the encroachment, the Public or Private party will be required to enter into the appropriate agreement which will be determined by FID.

8. FID is concerned that the proposed development may negatively impact local groundwater supplies. The area was historically agricultural land and a significant portion of its water supply was imported surface water, supplemented by groundwater pumping. Under current circumstances the project area is experiencing a modest but continuing groundwater overdraft. Should the proposed development result in a conversion from imported surface water to groundwater, this deficit will increase. FID recommends the City of Clovis require the proposed development balance anticipated groundwater use with sufficient recharge of imported surface water in order to preclude increasing the area's existing groundwater overdraft problem.

9. California enacted landmark legislation in 2014 known as the Sustainable Groundwater Management Act (SGMA). The act requires the formation of local groundwater sustainability agencies (GSAs) that must assess conditions in their local water basins and adopt locally-based management plans. FID and the City of Clovis are members of the North Kings Groundwater Sustainability Agency which will manage the groundwater basin within the FID service area. This area is completely reliant on groundwater pumping and SGMA will impact all users of groundwater and those who rely on it. The City of Clovis should consider the impacts of the development on the City's ability to comply with requirements of SGMA.

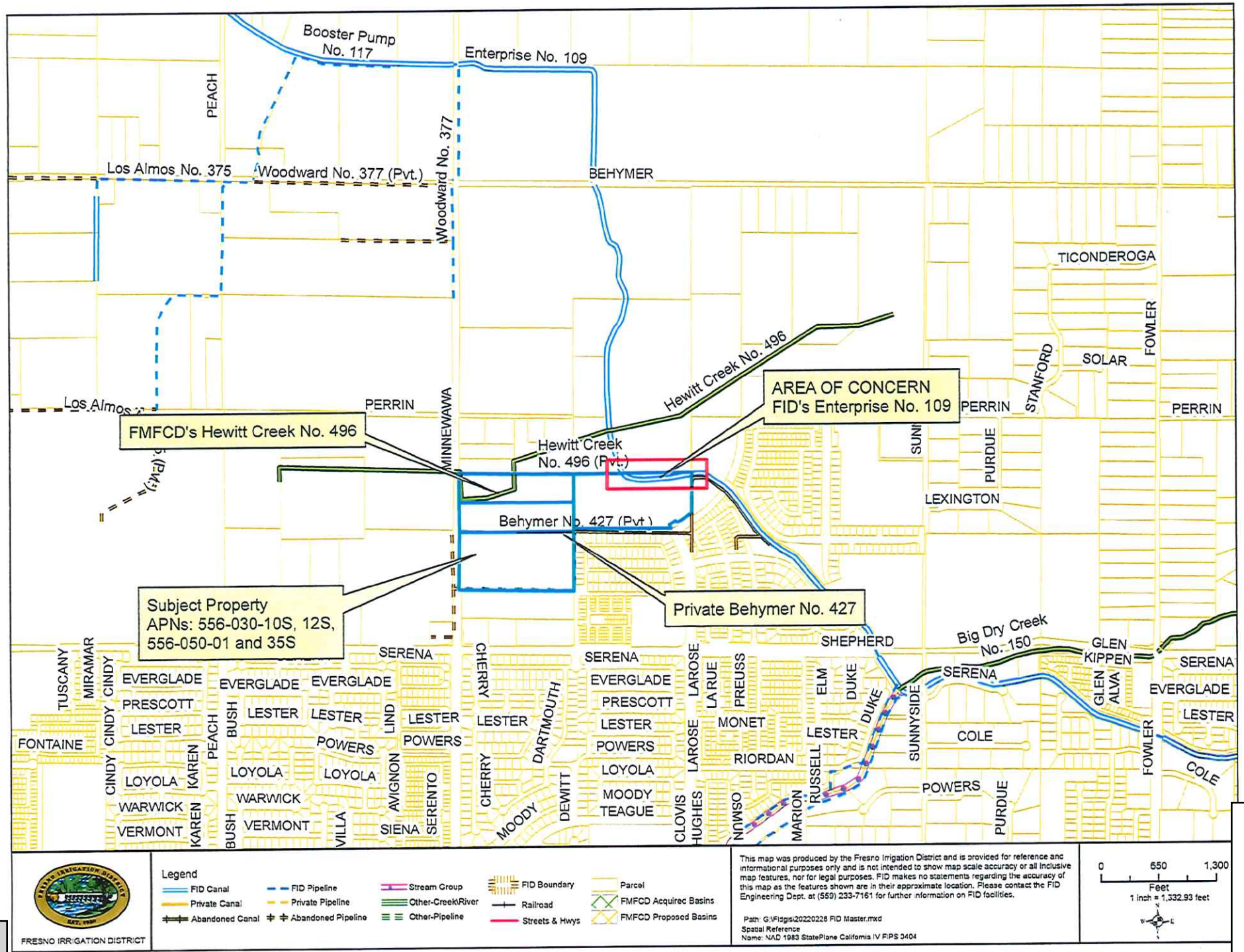
10. The above comments are not to be construed as the only requests FID will have regarding this project. FID will make additional comments and requests as necessary as the project progresses.

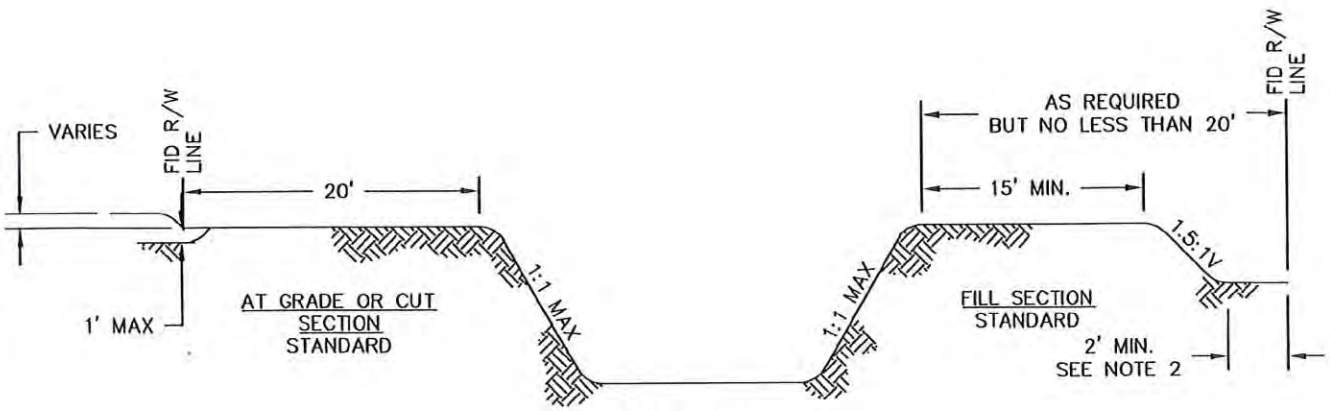
Thank you for submitting this for our review. We appreciate the opportunity to review and comment on the subject documents for the proposed project. If you have any questions, please feel free to contact Chris Lundeen at (559) 233-7161 extension 7410 or clundeen@fresnoirrigation.com.

Sincerely,

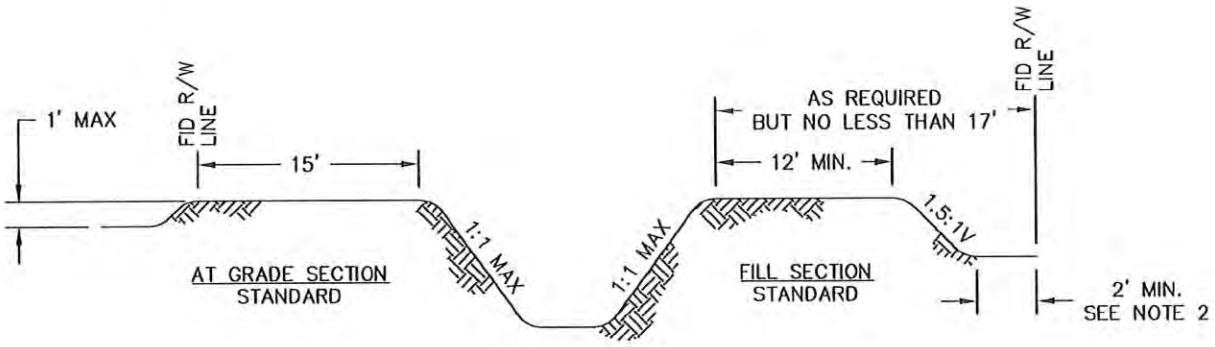
Laurence Kimura, P.E.
Chief Engineer

Attachment

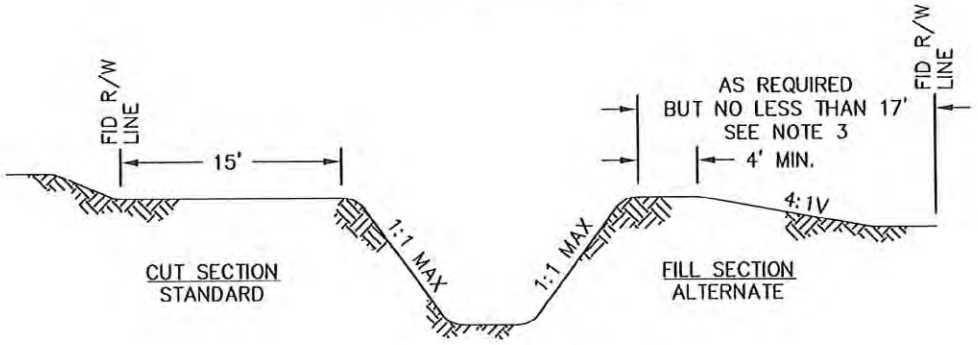

Booster Pump No. 117
Enterprise No. 109
PEACH
Woodward No. 377
Los Almos No. 375
Woodward No. 377 (Pvt.)
BEHYMER
TICONDEROGA
FOWLER
SOLAR
STANFORD
PERRIN
Hewitt Creek No. 496
AREA OF CONCERN
FID's Enterprise No. 109
FMFCD's Hewitt Creek No. 496
MINNEWAWA
Hewitt Creek No. 496 (Pvt.)
SUNNYSIDE
PURDUE
LEXINGTON
Behymer No. 427 (Pvt.)
Subject Property
APNs: 556-030-10S, 12S,
556-050-01 and 35S
Private Behymer No. 427
SHEPHERD
Big Dry Creek No. 150
GLEN
KIPPEN
ALVA
SERENA
EVERGLADE
PRESCOTT
LESTER
POWERS
LOYOLA
WARWICK
VERMONT
MONET
RIORDAN
COLE
MOODY
TEAGUE
TUSCANY
MIRAMAR
CINDY
FONTAINE
KAREN
BUSH
LIND
CHERRY
DARTMOUTH
DEWITT
AVIGNON
SERENTO
VILLA
SIENA
LAROSE
LARUE
PREUSS
ELM
DUKE
RUSSELL
MARION
OSMUN
CLOVIS
HUGHES
Legend
FID Canal
Private Canal
Abandoned Canal
FID Pipeline
Private Pipeline
Abandoned Pipeline
Stream Group
Other-Creek\River
Other-Pipeline
FID Boundary
Railroad
Streets & Hwys
Parcel
FMFCD Acquired Basins
FMFCD Proposed Basins
FRESNO IRRIGATION DISTRICT
This map was produced by the Fresno Irrigation District and is provided for reference and informational purposes only and is not intended to show map scale accuracy or all inclusive map features, nor for legal purposes. FID makes no statements regarding the accuracy of this map as the features shown are in their approximate location. Please contact the FID Engineering Dept. at (559) 233-7161 for further information on FID facilities.
Path: G:\Fidgis\20220226 FID Master.mxd
Spatial Reference
Name: NAD 1983 StatePlane California IV FIPS 0404
0
650
1,300
Feet
1 inch = 1,332.93 feet




50 C.F.S. & UP




UNDER 50 C.F.S.




UNDER 50 C.F.S.

NOTES:

1. ALL PRIVATE FACILITIES TO BE LOCATED OUTSIDE FID RIGHT-OF-WAY.
2. ADD 2 FEET TO EMBANKMENT WIDTH TO ESTABLISH OVERALL RIGHT-OF-WAY WIDTH TO ACCOMMODATE GRADER BLADE CLEARANCE.
3. THE ALTERNATE SECTION CANNOT BE USED IF THE OVERALL WIDTH EXCEEDS THE STANDARD WIDTH AND IS PERMITTED ONLY WHEN DISTRICT OPERATIONS AND MAINTENANCE FUNCTIONS DO NOT REQUIRE A STANDARD ROADWAY.

| | | | |
|---|---|---|---|
| FRESNO IRRIGATION DISTRICT | FRESNO IRRIGATION DISTRICT | CANAL RIGHT-OF-WAY | |
| "Your Most Valuable Resource - Water" | "Your Most Valuable Resource - Water" | SCALE: NOT TO SCALE<br>DATE: JANUARY 2018 | STANDARD DETAIL 1-01<br>SHEET 1 OF 1 |

# STANDARD EASEMENT WIDTHS FOR OPEN CANALS AND PIPELINES

SOURCE:

Board Policy No. 155

Rev. 5/29/02

Section 22438 of the California Water Code, attached as Exhibit "A" hereto, entitles the District to a secondary easement on each side of any open canal for which the District holds a prescriptive easement, with the width of the secondary easement to be whatever is reasonably required by the District for maintenance, repair, cleaning and operations of the secondary easement and open canal with equipment owned by or available to the District for that use at the time the rights are exercised. Exhibit "B" attached hereto, sets forth the dimensions of secondary easements for Fresno Irrigation District canals which are deemed to be reasonably required and which are claimed by the District under Section 22438.

Easements for pipelines or for open canals for which the District holds a written grant or judgement providing a legal description of the easement are not subject to the secondary easement provisions of Section 22438. District activities and the locations of canal facilities are therefore restricted to the limits established by the legal description of the easement.

For the purposes of acquiring easements for pipelines by grant or condemnation, the standard easement requirements are shown on Exhibit "C", attached hereto. Extraordinary conditions or circumstances may dictate modification of the standard easement, but such modification shall be subject to approval of the Board of Directors.

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|---|---|---|---|
| FRESNO IRRIGATION DISTRICT | FRESNO IRRIGATION DISTRICT | STANDARD EASEMENT WIDTHS FOR OPEN CANALS AND PIPELINES | |
| "Your Most Valuable Resource – Water" | "Your Most Valuable Resource – Water" | SCALE: NOT TO SCALE<br>DATE: JANUARY 2018 | STANDARD DETAIL<br>P-03<br>SHEET 1 OF 1 |

**STANDARD EASEMENT WIDTHS FOR**

**OPEN CANALS AND PIPELINES**

**EXHIBIT "A"**

**SENATE BILL No. 891**

An act to add Section 22438 to the Water Code, relating to irrigation districts.

Approved by the Governor on July 5, 1989.

Filed with the Secretary of State July 5, 1989.

LEGISLATIVE COUNSEL'S DIGEST

SB 891, Vuich. Irrigation Districts: canal easements.

Under existing law, an irrigation district may acquire by any means any property or interest in property to carry out its purposes.

This bill would declare that whenever any irrigation district is the owner of an easement for an open canal for the transportation of water across lands not owned by it, other than as specified, the district shall have a secondary easement on each side of the open canal for the maintenance, repair, cleaning, operation, and control of the open canal, as prescribed, and would specify related matters.

The people of the State of California do enact as follows:

SECTION 1. Section 22438 is added to the Water Code, to read:

22438. (a) Whenever any district is the owner of an easement for an open canal for the transportation of water across lands not owned by it, other than an easement evidenced by a written grant or judgement providing a legal description of the easement, the district shall have a secondary easement on each side of the open canal for the maintenance, repair, cleaning, operation, and control of the open canal and such other use thereof as may be reasonably be required by the district in exercising those rights and in the maintenance, repair, cleaning, and operation of that easement and open canal with equipment owned by or available to the district for that use at the time the rights are exercised. The duration of the secondary easement shall be for so long as the district, or its successors or assigns, continues to own the open canal easement regardless of what use has or has not been made of the secondary easement.

(b) The owner of the land upon which a secondary easement is located, or any lessee of the land, shall have the right to use the surface of the land upon which the secondary easement is located for his or her own purposes to the extent that the use does not unreasonably interfere with the district's ownership or use of the secondary easement, or upon the open canal easement. Any encroachment or obstruction placed or permitted upon the secondary easement by the owner of the land or any lessee of the land, which unreasonably interferes with the secondary easement or the open canal easement, may be removed by the district at the owner's or lessee's expense, or by legal action filed by the district.

This section shall not be construed to limit the right of a district or of any person to acquire any easement by prescriptive or condemnation or to enter into a written agreement concerning an easement or secondary easement upon such terms as are agreed upon the parties.

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|---|---|---|---|
| FRESNO IRRIGATION DISTRICT | FRESNO IRRIGATION DISTRICT | STANDARD EASEMENT WIDTHS FOR OPEN CANALS AND PIPELINES EXHIBIT A | |
| | "Your Most Valuable Resource – Water" | SCALE: NOT TO SCALE<br>DATE: JANUARY 2018 | STANDARD DETAIL P-04<br>SHEET 1 OF 1 |

**STANDARD EASEMENT WIDTHS FOR**

**OPEN CANALS AND PIPELINES EXHIBIT "B"**

**(Page 1 of 2)**

GENERAL REQUIREMENTS

The following requirements have been approved and adopted by the Board of Directors to provide a guideline for establishing adequate Right-of-Way widths for canals and ditches owned, operated, and maintained by the Fresno Irrigation District. Any extraordinary conditions, circumstances, misunderstandings, failure or refusal of a property owner to accept or comply with the general requirements described below should be brought to the immediate attention of the General Manager.

1. When establishing top of bank width required for operation and maintenance purposes, some existing top of bank widths may be more than required by the District, but in most cases, will be less. Therefore, the Right-of-Way line should be established in accordance with the requirements for future improvements, operations, and maintenance of the canal.

2. To determine the requirements for top of bank widths, canals and ditches shall be classified into two different categories. First, canals with banks which are not more than one foot 1.0') above the surrounding ground level will be classified in a "cut" category. Second, canals with banks which are more than one foot (1.0') above the adjacent ground level will be classified as "fill".

3. Required top of bank widths shall be measured on a level plane from the inside edge of the canal or ditch bank.

4. Canals with capacity of 50 C.F.S or more:

   a). Canals which are in a "cut" or at grade shall require a top of bank width no less than twenty feet (20') wide.

   b). Canals which are in a" fill" shall require a top of bank width of no less than fifteen feet (15') plus one and one-half feet (1.5') for each vertical foot outside of the bank slope plus and an additional two feet (2') to establish the Right-of-Way line beyond the outside toe of the canal bank. Easement width will be as required or no less than twenty feet (20') from the top inside bank to Right-of-Way line.

5. Canals with a capacity of less than 50 C.F.S:

   a). Canals which are in a "cut" shall require a top of bank width no less than fifteen feet (15') wide.

   b). Canals which are in a "fill" shall require a top of bank width of no less than twelve feet (12') plus one and one-half feet (1.5') for each vertical foot outside of the bank slope. "Fill" canals also require an additional two feet (2.0') to establish the Right-of-Way line beyond the outside toe of the canal.

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| FRESNO IRRIGATION DISTRICT | FRESNO IRRIGATION DISTRICT | STANDARD EASEMENT WIDTHS FOR OPEN CANALS AND PIPELINES EXHIBIT B | |
| | "Your Most Valuable Resource – Water" | SCALE: NOT TO SCALE<br>DATE: JANUARY 2018 | STANDARD DETAIL P-05<br>SHEET 1 OF 2 |

**STANDARD EASEMENT WIDTH FOR**

**OPEN CANALS AND PIPELINES EXHIBIT "B"**

**(Page 2 of 2)**

6. Canals with a capacity less than 50 C.F.S: (Alternate)

   a). Canals which are in a "cut" shall require a top of bank width no less than fifteen feet (15') wide.

   b). Canals which are in a "fill" shall require a top of bank width of no less than four feet (4') plus four feet (4.0') for each vertical foot outside of the bank slope.

   c). On smaller sloper type ditches, it may be necessary to resort to access along and outside the ditch, but in all cases the requirements should be established to prevent encroachments on the Right-of-Way.

   d). The alternate section cannot be used if the overall width exceeds the standard width and is permitted only when the District operations and maintenance functions do not require a standard road Right-of-Way.

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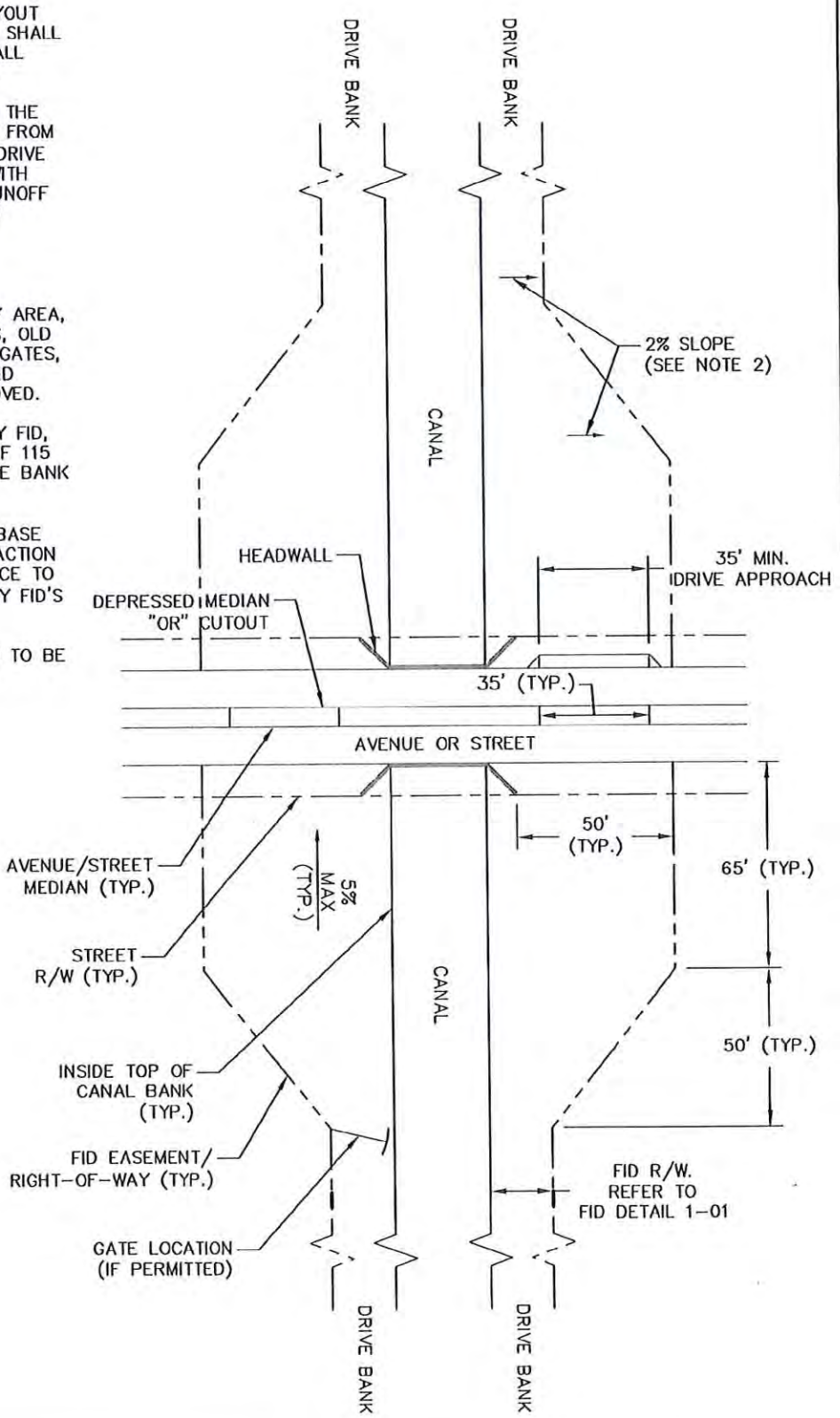
| FRESNO IRRIGATION DISTRICT | FRESNO IRRIGATION DISTRICT | STANDARD EASEMENT WIDTHS FOR OPEN CANALS AND PIPELINES EXHIBIT B | |
| | "Your Most Valuable Resource – Water" | SCALE: NOT TO SCALE<br>DATE: JANUARY 2018 | STANDARD DETAIL<br>P-05<br>SHEET 2 OF 2 |

NOTES:

1. DIMENSIONS AND NOTES ARE FOR LAYOUT PURPOSES ONLY. A SCALED DRAWING SHALL BE PREPARED AND SUBMITTED WITH ALL PLAN SETS PRIOR TO CONSTRUCTION.
2. DRAINAGE WILL NOT BE ACCEPTED IN THE CANAL AND SHALL BE ROUTED AWAY FROM FID PROPERTY/DRIVE BANKS. SLOPE DRIVE BANKS 2% AWAY FROM THE CANAL WITH PROVISIONS MADE FOR RAINFALL. RUNOFF TO BE CONVEYED TO NEARBY PUBLIC STREETS OR DRAINAGE SYSTEM BY DRAINAGE SWALES OR OTHER FID ACCEPTABLE ALTERNATIVES.
3. WITHIN FID EASEMENT/RIGHT-OF-WAY AREA, ALL EXISTING TREES, BUSHES, DEBRIS, OLD CANAL STRUCTURES, PUMPS, CANAL GATES, AND OTHER NON OR INACTIVE FID AND PRIVATE STRUCTURES MUST BE REMOVED.
4. IF AN ACCESS GATE IS PERMITTED BY FID, GATE MUST BE PLACED A MINIMUM OF 115 FEET AWAY FROM ROAD, WHERE DRIVE BANK NARROWS TO 20 FEET.
5. THREE INCH (3") THICK AGGREGATE BASE COMPACTED TO 93% RELATIVE COMPACTION SHALL BE REQUIRED AT THE ENTRANCE TO EACH DRIVE BANK AS DETERMINED BY FID'S ENGINEER. NO REGRIND ASPHALT.
6. DRIVEWAY APPROACH MINIMUM WIDTH TO BE 35 FEET.

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| FRESNO IRRIGATION DISTRICT "Your Most Valuable Resource – Water" | FRESNO IRRIGATION DISTRICT | DRIVE APPROACH – URBAN AREAS | |
| | | SCALE: NOT TO SCALE<br>DATE: JANUARY 2018 | STANDARD DETAIL 1-02<br>SHEET 1 OF 1 |

# City of Clovis
# DEVELOPMENT REVIEW COMMITTEE (DRC) APPLICATION

City Hall - 1033 Fifth Street, Clovis, California 93612 | (559) 324-2340

The Development Review Committee is a pre-application meeting scheduled between developers and City Staff. It is a service provided, without cost, which is intended to encourage discussion on potential development projects. City representatives on the Development Review Committee include representatives from the Fire, Police, Planning, Building, and Public Works Departments, in addition to the Clovis Community Development Agency. The Fresno Metropolitan Flood Control District, as well as other outside agencies, may also be invited to attend the Development Review Committee meeting.

As a general rule, the Development Review Committee meets on Wednesday mornings by appointment only. If you wish to have your proposal reviewed with the Development Review Committee, you should submit one (1) copy of your plans (preferably .pdf) and the application form. Your item will be scheduled approximately two weeks from the application date. Please note that the more detailed the submittal the more complete the City's response will be.

A written list of comments will be presented to you at the DRC meeting and development fees may be also requested at that time. Please keep in mind the list of comments is meant to be informational and may not include all requirements for your particular project. The DRC process provides a list of suggestions, which may be in your best interest to help you with a successful project.

NAME: Lennar Homes of California, Inc (Jeff Callaway)

MAILING ADDRESS: 8080 N. Palm Ave. Ste. 110

CITY: Fresno ST: CA ZIP: 93711

PHONE: (559) 447-3400 E-MAIL: jeff.callaway@lennar.com

PROPERTY OWNER: Lennar Homes of California, Inc and Ricchiuti Patrick Vincent Trustee

PROPOSED USE (be specific - use separate sheet if necessary):

See attached project description.

SIZE OF PROPERTY: 4 Parcels (Approx. 58.91 acres)

ASSESSOR'S PARCEL NUMBER: 556-030-10S and12s, 556-050-01 and 35S

PROJECT LOCATION: North of Shepherd, between Minnewawa and Clovis Avenues.

**All submitted plans should try to include the following items:**

1. Scale of drawing (Engineering or Architectural scale).
2. North arrow (pointing to top of paper).
3. Existing uses and structures on the property.
4. Names of adjacent streets.
5. Correct location of property line.
6. If available, one copy of floor plans and elevations.
7. Any existing off-site improvements (i.e. driveway approaches, fire hydrants, etc.).

**(OFFICE USE ONLY)**

**File No: DRC** 2022-009

**Date:** 3/9/22 at 9am

**RHNA Site:** N/A

**Should you have any questions, please feel free to contact the Planning Division at (559) 324-2340.**

# Lennar Homes of California

## Project Description - TTM #6375

Lennar Homes is proposing a single-family development project consisting of 369 homes in Heritage Grove. The project is located north of Shepherd, between Minnewawa and Clovis Avenues. The project includes two product types and is consistent with the City of Clovis General Plan land use.

**Project Details**

- Project site address – 58.91 acres (4 APNS)
- Assessor's parcel numbers
  - 556-050-35S (19.57 acres)
    - Legal owner: Ricchiuti Patrick V Trustee
  - 556-050-01 (19.55 acres)
    - Legal owner: Ricchiuti Patrick Vincent Trustee
  - 556-030-12S (9.77 acres)
    - Legal owner: Lennar Homes of California, Inc.
  - 556-030-10S (9.63 acres)
    - Legal owner: Legal Owner: Lennar Homes of California, Inc.
- Existing General Plan land use designation: M – Medium Density Residential (4.1 – 7 DU/Ac)
- Existing zone district: AE-20
- Community plan: Heritage Grove
- Current use: Agricultural Uses/Vacant Land/Rural Residential

**Detailed Description of Project Uses**

The proposed development consists of 2 single-family product types, totaling 369 units, providing for a variety of housing offerings and a range of housing densities. The current version of the tract map (dated 2-3-2022) is as follows:

- Northern portion – a total of 167 homes 50 by 100 feet plus, non-gated with a park
- Southern portion - a total of 202 homes 39 by 51 feet plus, gated with private open space

The northern portion of the project includes a gateway landscape area on Minnewawa (outlot B) and a pedestrian access to Clovis Avenue (outlot C). There is also a park planned near the center of the overall project (outlot D). There are vehicular access points off of Minnewawa and Clovis Avenues, as we as a stub road to future development to the north.

The southern portion of the project is gated with a main entrance off of Minnewawa Avenue and a secondary entrance off of Dewitt Avenue. There will be common area amenities that include a pool, restrooms, and seating areas for the residences of the gated community (outlot A). There will also be a gate for pedestrian access to the central park (outlot D). These homes are alley loaded connected by paseo areas.

**County of Fresno**
DEPARTMENT OF PUBLIC HEALTH
Environmental Health Division

September 24, 2024

LU0021631
2604

Liz Salazar, Assistant Planner
City of Clovis
Planning and Development Services Department
1033 Fifth Street
Clovis, CA 93612

Dear Ms. Salazar:

PROJECT NUMBER: **RO310, R2024-005, PDP2024-001, TM6375**

**RO310**; a resolution of application for the annexation of approximately 193.02 acres into the City of Clovis. **R2024-005**; A request to prezone approximately 193.02 acres from Fresno County AE-20 to Clovis R-1 and R-1-MD Zone Districts. **PDP2024-001**; A planned development permit request for a 387-lot single-family planned residential development for land located north of Shepherd Avenue, between Minnewawa and Clovis Avenues. **TM6375**; A request to approve a vesting tentative tract map for a 387-lot single-family planned residential development.

**APN: Multiple** **ZONING: AE-20 to R-1-PRD**
**ADDRESS: N. of Shepherd btw Minnewawa & Clovis Avenues**

Recommended Conditions of Approval:

- Construction permits for development should be subject to assurance of sewer capacity of the Regional Wastewater Treatment Facility. Concurrence should be obtained from the California Regional Water Quality Control Board (RWQCB). For more information, contact staff at (559) 445-5116.

- Construction permits for the development should be subject to assurance that the City of Clovis community water system has the capacity and quality to serve this project. Concurrence should be obtained from the State Water Resources Control Board, Division of Drinking Water-Southern Branch. For more information call (559) 447-3300.

- The proposed project has the potential to expose nearby residents to elevated noise levels. Consideration should be given to the Fresno County Ordinance Code the City's municipal code.

- As a measure to protect ground water, all water wells and/or septic systems that exist or have been abandoned within the project area should be properly destroyed by an appropriately licensed contractor.

- Should any underground storage tank(s) be found during the project, the applicant shall apply for and secure an Underground Storage Tank Removal Permit from the Fresno County Department of Public Health, Environmental Health Division. Contact the Fresno County Hazmat Compliance Program at (559) 600-3271 for more information.

The following comments pertain to the demolition of any existing structure(s):

- Should the structure(s) have an active rodent or insect infestation, the infestation should be abated prior to demolition of the structure(s) in order to prevent the spread of vectors to adjacent properties.

- In the process of demolishing the existing structure(s), the contractor may encounter asbestos containing construction materials and materials coated with lead-based paints.

- If asbestos containing materials are encountered, contact the San Joaquin Valley Air Pollution Control District at (559) 230-6000 for more information.

- If the structure(s) were constructed prior to 1979 or if lead-based paint is suspected to have been used in these structures, then prior to demolition work the contractor should contact the following agencies for current regulations and requirements:

  - California Department of Public Health, Childhood Lead Poisoning Prevention Branch, at (510) 620-5600.

  - United States Environmental Protection Agency, Region 9, at (415) 947-8000.

  - State of California, Industrial Relations Department, Division of Occupational Safety and Health, Consultation Service (CAL-OSHA) at (559) 454-5302.

REVIEWED BY:

Kevin Tsuda

Kevin Tsuda, R.E.H.S.
Environmental Health Specialist II (559) 600-33271

KT

cc: Deep Sidhu- Environmental Health Division (CT. 55.25)
Jeff Callaway- Applicant (jeff.callaway@lennar.com)

# County of Fresno

DEPARTMENT OF PUBLIC WORKS AND PLANNING
**STEVEN E. WHITE, DIRECTOR**

October 8, 2024

Liz Salazar, Assistant Planner
City of Clovis Planning and Development Services
1033 Fifth Street Clovis, CA 93612

**SUBJECT: City of Clovis TM6375, R2024-005, PDP2024-001, and RO310- 387-lot single-family planned residential development.**

Dear Ms. Salazar,

The County of Fresno appreciates the opportunity to review and comment on the subject project being reviewed by the City of Clovis. The proposed 387-lot single-family planned residential development on land north of Shepherd Avenue, between Minnewawa and Clovis Avenues.

The documents received for this review were circulated to our various Fresno County Public Works and Planning divisions. See comments below.

**Fresno County Policy Planning:**

Williamson Act:
Parcel identified as APN 556-030-17S and APN 556-040-05s on the Assessor's map is considered one legal parcel and is 17.81-acres in size. A notice of contract non-renewal was recorded on a 5.30-acre portion of the 17.81-acre parcel known as APN 556-040-05S on July 16, 2007, and the contract on that portion the parcel expired in in 2017 (Document Number 07-0136149.) The balance of the 17.81-acre parcel known as APN 556-030-17S and is 12.51 acres, is currently enrolled in the Williamson Act Program under Contract No. AP 4826.

A Notice of Nonrenewal was recorded on the 12.51-acre balance on April 29, 2022, as Document No. 22-0056293 and the contract on the 12.51-acres will expire on the last day of December 2031 Prior to any development on this 12.51 acres known as APN 556-030-17S, the contract nonrenewal must either expire which is the last day of December 2031, or a Cancellation Petition must be filed, processed, and approved by the governing body having jurisdiction over the subject parcel.

The subject parcel will be removed from the Williamson Act program if the governing body approves the cancellation petition, and a Certificate of Cancellation is approved and recorded at the Fresno County Recorder's Office.

**Fresno County Transportation Planning:**

This project will impact county facilities and should require a TIS, please include the county in all future routings best point of contact is bhines@fresnocountyca.gov. Using ITE trip Generation Manual (11th Edition) trips are calculated to be over the county's threshold.

The county would Like the request the following intersections be included in the traffic impact study:

- The intersection of Behymer Avenue and Minnewawa Avenue
- Behymer Avenue, from Peach Avenue to Minnewawa Avenue
- The newly constructed segment of Peach Avenue adjacent to the subject site
- The segment of Minnewawa Avenue adjacent to the subject site

The entire right-of-way of the following street segments and intersection should be incorporated into the City of Clovis as part of the annexation process:

- The intersection of Behymer Avenue and Minnewawa Avenue
- Behymer Avenue, adjacent to the annexation area
- Shepherd Avenue from Peach Avenue to the east boundary of the annexation area

**Fresno County Road Maintenance and Operations Division:**

Pending receipt of Road Maintenance and Operations comment.

**Minnewawa Avenue** is a county-maintained road classified as a collector road with an existing 60' total road right-of-way, 30' east of section line fronting the subject parcel. Ultimate right-of-way is 84' per the Fresno County General Plan. Minnewawa Ave has a total pavement width of 32.2', an AADT of 5600 VPD, and a PCI of 100. Roadway is in good condition.

**Mason** is not a county-maintained road, but it does have a 20' right-of-way for a distance east of Minnewawa.

**RMO Comments:**

1) City of Clovis should be required to annex the full road right-of-way of Minnewawa Ave and any roads along parcel frontage.
2) Road Maintenance and Operations requests to be included in any traffic impact studies performed as part of this project.
3) The right of way along Mason should be vacated if not annexed or not used for road purposes.

Sincerely,

Arianna Brown
Arianna Brown, Planner -- Development Services and Capital Projects Division

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San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

October 8, 2024

Liz Salazar
City of Clovis
Planning and Development Services
1033 Fifth St
Clovis, CA 93612

**Project: Planning Application for RO310, R2024-005, TM6375, PDP2024-001**

**District CEQA Reference No: 20241058**

Dear Ms. Salazar

The San Joaquin Valley Air Pollution Control District (District) has reviewed the Planning Application (PA) from the City of Clovis (City) for the projects listed above. Per the PA, the project consists of the development of 387 single-family residential lots and the annexation of 193.02 acres into the City of Clovis (Project). The Project is located north of Shepherd Ave between Minnewawa Ave and Clovis Ave, in Clovis, CA.

The District offers the following comments at this time regarding the Project:

## 1) Project Related Emissions

At the federal level under the National Ambient Air Quality Standards (NAAQS), the District is designated as extreme nonattainment for the 8-hour ozone standards and serious nonattainment for the particulate matter less than 2.5 microns in size (PM2.5) standards. At the state level under California Ambient Air Quality Standards (CAAQS), the District is designated as nonattainment for the 8-hour ozone, PM10, and PM2.5 standards.

The District's initial review of the Project concludes that emissions resulting from construction and/or operation of the Project may exceed any of the following significance thresholds as identified in the District's Guidance for Assessing and Mitigating Air Quality Impacts: https://ww2.valleyair.org/media/g4nl3p0g/gamaqi.pdf. The District recommends that a more detailed preliminary review of the Project be conducted for the Project's construction and operational emissions.

Samir Sheikh
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: (661) 392-5500 FAX: (661) 392-5585

www.valleyair.org www.healthyairliving.com



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### 1a) Construction Emissions

The District recommends, to reduce impacts from construction-related diesel exhaust emissions, the Project should utilize the cleanest available off-road construction equipment.

### 1b) Operational Emissions

Operational (ongoing) air emissions from mobile sources and stationary sources should be analyzed separately. For reference, the District's significance thresholds are identified in the District's Guidance for Assessing and Mitigating Air Quality Impacts: https://ww2.valleyair.org/media/g4nl3p0g/gamaqi.pdf.

*Recommended Mitigation Measure*: At a minimum, project related impacts on air quality should be reduced to levels below the District's significance thresholds through incorporation of design elements such as the use of cleaner Heavy Heavy-Duty (HHD) trucks and vehicles, measures that reduce Vehicle Miles Traveled (VMTs), and measures that increase energy efficiency. More information on transportation mitigation measures can be found at: https://ww2.valleyair.org/media/ob0pweru/clean-air-measures.pdf

### 1c) Recommended Model for Quantifying Air Emissions

Project-related criteria pollutant emissions from construction and operational sources should be identified and quantified. Emissions analysis should be performed using the California Emission Estimator Model (CalEEMod), which uses the most recent CARB-approved version of relevant emissions models and emission factors. CalEEMod is available to the public and can be downloaded from the CalEEMod website at: www.caleemod.com.

## 2) Health Risk Screening/Assessment

The City should evaluate the risk associated with the Project for sensitive receptors (residences, businesses, hospitals, day-care facilities, health care facilities, etc.) in the area and mitigate any potentially significant risk to help limit exposure of sensitive receptors to emissions.

To determine potential health impacts on surrounding receptors (residences, businesses, hospitals, day-care facilities, health care facilities, etc.) a Prioritization and/or a Health Risk Assessment (HRA) should be performed for the Project. These health risk determinations should quantify and characterize potential Toxic Air Contaminants (TACs) identified by the Office of Environmental Health Hazard Assessment/California Air Resources Board (OEHHA/CARB) that pose a present or potential hazard to human health.

Health risk analyses should include all potential air emissions from the project, which include emissions from construction of the project, including multi-year construction, as well as ongoing operational activities of the project. Note, two common sources of TACs can be attributed to diesel exhaust emitted from heavy-duty off-road earth moving equipment during construction, and from ongoing operation of heavy-duty on-road trucks.

Prioritization (Screening Health Risk Assessment):
A "Prioritization" is the recommended method for a conservative screening-level health risk assessment. The Prioritization should be performed using the California Air Pollution Control Officers Association's (CAPCOA) methodology. Please contact the District for assistance with performing a Prioritization analysis.

The District recommends that a more refined analysis, in the form of an HRA, be performed for any project resulting in a Prioritization score of 10 or greater. This is because the prioritization results are a conservative health risk representation, while the detailed HRA provides a more accurate health risk evaluation.

Health Risk Assessment:
Prior to performing an HRA, it is strongly recommended that land use agencies/ project proponents develop and submit for District review a health risk modeling protocol that outlines the sources and methodologies that will be used to perform the HRA.

A development project would be considered to have a potentially significant health risk if the HRA demonstrates that the health impacts would exceed the District's established risk thresholds, which can be found here: https://ww2.valleyair.org/permitting/ceqa/.

A project with a significant health risk would trigger all feasible mitigation measures. The District strongly recommends that development projects that result in a significant health risk not be approved by the land use agency.

The District is available to review HRA protocols and analyses. For HRA submittals please provide the following information electronically to the District for review:

- HRA (AERMOD) modeling files
- HARP2 files
- Summary of emissions source locations, emissions rates, and emission factor calculations and methodologies.

For assistance, please contact the District's Technical Services Department by:

- E-Mailing inquiries to: hramodeler@valleyair.org
- Calling (559) 230-5900

*Recommended Measure*: Development projects resulting in TAC emissions should be located an adequate distance from residential areas and other sensitive receptors to prevent the creation of a significant health risk in accordance to CARB's Air Quality and Land Use Handbook: A Community Health Perspective located at https://ww2.arb.ca.gov/our-work/programs/resource-center/strategy-development/land-use-resources.

## 3) Ambient Air Quality Analysis

An Ambient Air Quality Analysis (AAQA) uses air dispersion modeling to determine if emissions increases from a project will cause or contribute to a violation of State or National Ambient Air Quality Standards. The District recommends an AAQA be performed for the Project if emissions exceed 100 pounds per day of any pollutant.

An AAQA uses air dispersion modeling to determine if emission increase from a project will cause or contribute to a violation of State or National Ambien Air Quality Standards. An acceptable analysis would include emissions from both project-specific permitted and non-permitted equipment and activities. The District recommends consultation with District staff to determine the appropriate model and input data to use in the analysis.

Specific information for assessing significance, including screening tools and modeling guidance, is available online at the District's website: https://ww2.valleyair.org/permitting/ceqa/.

## 4) Voluntary Emission Reduction Agreement

Criteria pollutant emissions may result in emissions exceeding the District's significance thresholds, potentially resulting in a significant impact on air quality. When a project is expected to have a significant impact, the District recommends the environmental review also include a discussion on the feasibility of implementing a Voluntary Emission Reduction Agreement (VERA) for this Project.

A VERA is a mitigation measure by which the project proponent provides pound-for-pound mitigation of emissions increases through a process that develops, funds, and implements emission reduction projects, with the District serving a role of administrator of the emissions reduction projects and verifier of the successful mitigation effort. To implement a VERA, the project proponent and the District enter into a contractual agreement in which the project proponent agrees to mitigate project specific emissions by providing funds for the District's incentives programs.

The funds are disbursed by the District in the form of grants for projects that achieve emission reductions. Thus, project-related impacts on air quality can be mitigated. Types of emission reduction projects that have been funded in the past include electrification of stationary internal combustion engines (such as agricultural irrigation pumps), replacing old heavy-duty trucks with new, cleaner, more efficient heavy-duty trucks, and replacement of agricultural equipment with the latest generation technologies.

In implementing a VERA, the District verifies the actual emission reductions that have been achieved as a result of completed grant contracts, monitors the emission reduction projects, and ensures the enforceability of achieved reductions. After the project is mitigated, the District certifies to the Lead Agency that the mitigation is completed, providing the Lead Agency with an enforceable mitigation measure demonstrating that project-related emissions have been mitigated. To assist the Lead Agency and project proponent in ensuring that the environmental document is compliant with CEQA, the District recommends the environmental document includes an assessment of the feasibility of implementing a VERA.

## 5) Vegetative Barriers and Urban Greening

There are residential units located near the Project. The District suggests the City consider the feasibility of incorporating vegetative barriers and urban greening as a measure to further reduce air pollution exposure on sensitive receptors (e.g., residential units).

While various emission control techniques and programs exist to reduce air quality emissions from mobile and stationary sources, vegetative barriers have been shown to be an additional measure to potentially reduce a population's exposure to air pollution through the interception of airborne particles and the update of gaseous pollutants. Examples of vegetative barriers include, but are not limited to the following: trees, bushes, shrubs, or a mix of these. Generally, a higher and thicker vegetative barrier with full coverage will result in greater reductions in downwind pollutant concentrations. In the same manner, urban greening is also a way to help improve air quality and public health in addition to enhancing the overall beautification of a community with drought tolerant, low-maintenance greenery.

## 6) Clean Lawn and Garden Equipment in the Community

Since the Project consists of residential development, gas-powered residential lawn and garden equipment have the potential to result in an increase of NOx and PM2.5 emissions. Utilizing electric lawn care equipment can provide residents with immediate economic, environmental, and health benefits. The District recommends the Project proponent consider the District's Clean Green Yard Machines (CGYM) program which provides incentive funding for replacement of existing gas powered lawn and garden equipment. More information on the District CGYM program and

funding can be found at: https://ww2.valleyair.org/grants/clean-green-yard-machines-residential/

## 7) On-Site Solar Deployment

It is the policy of the State of California that renewable energy resources and zero-carbon resources supply 100% of retail sales of electricity to California end-use customers by December 31, 2045. While various emission control techniques and programs exist to reduce air quality emissions from mobile and stationary sources, the production of solar energy is contributing to improving air quality and public health. The District suggests that the City consider incorporating solar power systems as an emission reduction strategy for the Project.

## 8) District Rules and Regulations

The District issues permits for many types of air pollution sources, and regulates some activities that do not require permits. A project subject to District rules and regulations would reduce its impacts on air quality through compliance with the District's regulatory framework. In general, a regulation is a collection of individual rules, each of which deals with a specific topic. As an example, Regulation II (Permits) includes District Rule 2010 (Permits Required), Rule 2201 (New and Modified Stationary Source Review), Rule 2520 (Federally Mandated Operating Permits), and several other rules pertaining to District permitting requirements and processes.

The list of rules below is neither exhaustive nor exclusive. Current District rules can be found online at: https://ww2.valleyair.org/rules-and-planning/current-district-rules-and-regulations. To identify other District rules or regulations that apply to future projects, or to obtain information about District permit requirements, the project proponents are strongly encouraged to contact the District's Small Business Assistance (SBA) Office at (559) 230-5888.

### 8a) District Rules 2010 and 2201 - Air Quality Permitting for Stationary Sources

Stationary Source emissions include any building, structure, facility, or installation which emits or may emit any affected pollutant directly or as a fugitive emission. District Rule 2010 (Permits Required) requires operators of emission sources to obtain an Authority to Construct (ATC) and Permit to Operate (PTO) from the District. District Rule 2201 (New and Modified Stationary Source Review) requires that new and modified stationary sources of emissions mitigate their emissions using Best Available Control Technology (BACT).

This Project may be subject to District Rule 2010 (Permits Required) and Rule 2201 (New and Modified Stationary Source Review) and may require District permits. Prior to construction, the Project proponent should submit to the District an application for an ATC. For further information or assistance, the project proponent may contact the District's SBA Office at (559) 230-5888.

**8b) District Rule 9510 - Indirect Source Review (ISR)**

The Project is subject to District Rule 9510 because it will receive a project-level discretionary approval from a public agency and will equal or exceed 50 residential units.

The purpose of District Rule 9510 is to reduce the growth in both NOx and PM emissions associated with development and transportation projects from mobile and area sources; specifically, the emissions associated with the construction and subsequent operation of development projects. The ISR Rule requires developers to mitigate their NOx and PM emissions by incorporating clean air design elements into their projects. Should the proposed development project clean air design elements be insufficient to meet the required emission reductions, developers must pay a fee that ultimately funds incentive projects to achieve off-site emissions reductions.

Per Section 5.0 of the ISR Rule, an Air Impact Assessment (AIA) application is required to be submitted no later than applying for project-level approval from a public agency. As of the date of this letter, the District has not received an AIA application for this Project. Please inform the project proponent to immediately submit an AIA application to the District to comply with District Rule 9510 so that proper mitigation and clean air design under ISR can be incorporated into the Project's design. One AIA application should be submitted for the entire Project.

Information about how to comply with District Rule 9510 can be found online at: https://ww2.valleyair.org/permitting/indirect-source-review-rule-overview

The AIA application form can be found online at: https://ww2.valleyair.org/permitting/indirect-source-review-rule-overview/forms-and-applications/

District staff is available to provide assistance and can be reached by phone at (559) 230-5900 or by email at ISR@valleyair.org.

**8c) District Rule 4002 (National Emissions Standards for Hazardous Air Pollutants)**

In the event an existing building will be renovated, partially demolished or removed, the Project may be subject to District Rule 4002. This rule requires a thorough inspection for asbestos to be conducted before any regulated facility is demolished or renovated. Information on how to comply with District Rule 4002 can be found online at: https://ww2.valleyair.org/compliance/demolition-renovation/

**8d) District Rule 4601 (Architectural Coatings)**

The Project may be subject to District Rule 4601 since it is expected to utilize architectural coatings. Architectural coatings are paints, varnishes, sealers, or stains that are applied to structures, portable buildings, pavements or curbs. The purpose of this rule is to limit VOC emissions from architectural coatings. In addition, this rule specifies architectural coatings storage, cleanup and labeling requirements. Additional information on how to comply with District Rule 4601 requirements can be found online at: https://ww2.valleyair.org/media/tkgjeusd/rule-4601.pdf

**8e) District Regulation VIII (Fugitive PM10 Prohibitions)**

The project proponent may be required to submit a Construction Notification Form or submit and receive approval of a Dust Control Plan prior to commencing any earthmoving activities as described in Regulation VIII, specifically Rule 8021 – *Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities.*

Should the project result in at least 1-acre in size, the project proponent shall provide written notification to the District at least 48 hours prior to the project proponents intent to commence any earthmoving activities pursuant to District Rule 8021 (Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities). Also, should the project result in the disturbance of 5-acres or more, or will include moving, depositing, or relocating more than 2,500 cubic yards per day of bulk materials, the project proponent shall submit to the District a Dust Control Plan pursuant to District Rule 8021 (Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities). For additional information regarding the written notification or Dust Control Plan requirements, please contact District Compliance staff at (559) 230-5950.

The application for both the Construction Notification and Dust Control Plan can be found online at: https://ww2.valleyair.org/media/fm3jrbsq/dcp-form.docx

Information about District Regulation VIII can be found online at: https://ww2.valleyair.org/dustcontrol

**8f) District Rule 4901 - Wood Burning Fireplaces and Heaters**

The purpose of this rule is to limit emissions of carbon monoxide and particulate matter from wood burning fireplaces, wood burning heaters, and outdoor wood burning devices. This rule establishes limitations on the installation of new wood burning fireplaces and wood burning heaters. Specifically, at elevations below 3,000 feet in areas with natural gas service, no person shall install a wood burning fireplace, low mass fireplace, masonry heater, or wood burning heater.

Information about District Rule 4901 can be found online at: https://ww2.valleyair.org/compliance/residential-wood-smoke-reduction-program/

**8g) Other District Rules and Regulations**

The Project may also be subject to the following District rules: Rule 4102 (Nuisance) and Rule 4641 (Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations).

**9) District Comment Letter**

The District recommends that a copy of the District's comments be provided to the Project proponent.

If you have any questions or require further information, please contact Ryan Grossman by e-mail at Ryan.grossman@valleyair.org or by phone at (559) 230-6569.

Sincerely,

Tom Jordan
Director of Policy and Government Affairs



Mark Montelongo
Program Manager

Docusign Envelope ID: A2E95575-01A3-4094-A2F9-2A1F662AFFB4



State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
Central Region
1234 East Shaw Avenue
Fresno, California 93710
(559) 243-4005
www.wildlife.ca.gov

***GAVIN NEWSOM***
***CHARLTON H. BONHAM, Director***

October 8, 2024

Liz Salazar, Assistant Planner
City of Clovis, Planning Department
1033 Fifth Street
Clovis, California 93612
(559) 324-2305
lizs@cityofclovis.com

**Subject: Lennar Homes of California, Inc. Project (Project)**
**TTM 6375, Early Consultation (CON)**

Dear Liz Salazar:

The California Department of Fish and Wildlife (CDFW) received an Early Consultation (CON) request from the City of Clovis for the above-referenced Project pursuant to the California Environmental Quality Act (CEQA) and CEQA Guidelines.[1]

Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish and wildlife. Likewise, CDFW appreciates the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may be required to carry out or approve through the exercise of its own regulatory authority under Fish and Game Code.

**CDFW ROLE**

CDFW is California's **Trustee Agency** for fish and wildlife resources and holds those resources in trust by statue for all the people of the State (Fish and Game Code, §§ 711.7, subd. (a) & 1802; Pub. Resources Code, § 21070; CEQA Guidelines § 15386, subd. (a)). CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species (*Id.*, § 1802). Similarly, for purposes of CEQA, CDFW is charged by law to provide, as available, biological expertise during public agency environmental review efforts, focusing specifically on

[1] CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.

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projects and related activities that have the potential to adversely affect fish and wildlife resources.

CDFW is also submitting comments as a **Responsible Agency** under CEQA (Pub. Resources Code, § 21069; CEQA Guidelines, § 15381). CDFW expects that it may need to exercise regulatory authority as provided by the Fish and Game Code. As proposed, for example, the Project may be subject to CDFW's lake and streambed alteration regulatory authority (Fish and Game Code, § 1600 et seq.). Likewise, to the extent implementation of the Project as proposed may result in "take" as defined by State law of any species protected under the California Endangered Species Act (CESA) (Fish & G. Code, § 2050 et seq.), related authorization as provided by the Fish and Game Code may be required.

**Nesting Birds:** CDFW has jurisdiction over actions with potential to result in the disturbance or destruction of active nest sites or the unauthorized take of birds. Fish and Game Code sections that protect birds, their eggs and nests include, sections 3503 (regarding unlawful take, possession or needless destruction of the nest or eggs of any bird), 3503.5 (regarding the take, possession or destruction of any birds-of-prey or their nests or eggs), and 3513 (regarding unlawful take of any migratory nongame bird).

## PROJECT DESCRIPTION SUMMARY

**Proponent:** Jeff Callaway

**Objective:** Lennar Homes is proposing a single-family development Project consisting of 369 homes in Heritage Grove, in the City of Clovis. The Project contains four parcels with a total of approximately 58.91-acres, and is consistent with the City of Clovis General Plan land use. The northern portion of the development will total 167 homes, and will be non-gated with a park. The southern portion will total 202 homes, and will be gated with private open space. There will be common area amenities including a park, pool, restrooms, seating areas for the residences of the gated community, and alley loaded and connected by paseo (shops, restaurants, etc.) areas.

**Location:** The Project Site is located north of East Shepherd Ave., between North Minnewawa and North Clovis Avenues. on Assessor's Parcel Numbers (APNs) 556-030-10S, 556-030-12S, 556-050-01, and 556-050-35S.

## COMMENTS AND RECOMMENDATIONS

CDFW offers the following comments and recommendations to assist the City of Clovis in adequately identifying and/or mitigating the Project's significant, or potentially significant, direct and indirect impacts on fish and wildlife (biological) resources.

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Editorial comments or other suggestions may also be included to improve the CEQA document.

The Project Site contains an orchard and had previously contained rural residential homes and fallowed lands but were graded and disturbed in 2023 per Google Streetview and historical imagery information. Most of the trees have been removed aside from a few large eucalyptus trees on the southwest corner of the parcel that may contain potential nesting habitat for birds and raptors as well as scattered trees on the parcel just north of the Project Site. Orchards are present to the west, southwest, and northwest of the Project Site across North Minnewawa Ave.

The area adjacent to the east of the Enterprise Canal (just outside of Project limits) shows a large area that is completely disturbed and appears to be in the process of constructing an additional housing development. Also, per aerial imagery, there is a new residential neighborhood in construction immediately east and southeast of the proposed Project Site. The earth-lined Enterprise Canal is present in the very northeast portion of the Project Site.

There is the potential that special-status species may be present at the Project Site. These resources may need to be evaluated and addressed prior to any approvals that would allow ground-disturbing activities or land use changes. CDFW is concerned regarding potential impacts to special-status species including, but not limited to the State threatened (ST) Swainson's hawk (*Buteo swainsoni*), the ST and federally endangered (FE) California tiger salamander (*Ambystoma californiense*), the State candidate endangered (SCE) Crotch's bumble bee (*Bombus crotchii*), and the State Species of Special Concern (SSC) burrowing owl (*Athene cunicularia*).

In order to adequately assess potential impacts to biological resources, a qualified biologist should perform database and other research of the Project Site, then conduct focused habitat assessments and/or focused biological surveys during the appropriate survey period(s) in order to determine whether any special-status species may be present within the Project Site. CDFW recommends this initial work be documented and used to inform further efforts that may be needed thereafter including the need for additional protocol surveys; and the development of avoidance, minimization, and mitigation measures. This information and analysis should also be used to consider the development of modified or new Project alternatives to avoid and minimize potentially significant environmental impacts on the biological environment. This information is critical to make an informed decision during the CEQA process and to ensure Project compliance with CESA, Fish and Game code, and other applicable State and federal laws and regulations.

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**Swainson's hawk**

After review of the provided documents, aerial imagery of the Project Site, and a review of the California Natural Diversity Database (CNDDB) records of the surrounding area, the Project Site and surrounding area contains both viable nesting trees and foraging habitat for Swainson's hawk (SWHA). As such, CDFW recommends the following:

**Recommended Mitigation Measure 1: SWHA Surveys Prior to Construction**

Depending on the time between the previously recommended habitat assessment and Project construction, CDFW recommends that additional surveys, following the survey methodology developed by the SWHA Technical Advisory Committee (SWHA TAC 2000), be repeated the survey season immediately prior to construction.

**Recommended Mitigation Measure 2: SWHA Avoidance Buffer**

If Project-specific activities will take place during the SWHA nesting season (i.e., March 1 through September 15), and active SWHA nests are present, CDFW recommends a minimum ½-mile no-disturbance buffer be delineated and maintained around each nest, regardless of whether it was detected by surveys or observed incidentally. These buffers would remain in place until the breeding season has ended or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or parental care for survival, to prevent nest abandonment and other take of SWHA as a result of Project activities.

**Recommended Mitigation Measure 3: SWHA Take Authorization**

CDFW also recommends that in the event an active SWHA nest is detected, and a ½-mile no-disturbance buffer is not feasible, consultation with CDFW is warranted to discuss how to implement the Project and avoid take. If take cannot be avoided, take authorization through the acquisition of a State Incidental Take Permit (ITP), pursuant to Fish and Game Code section 2081 subdivision (b) is necessary to comply with CESA.

**California tiger salamander**

The Project Site is within the range of California tiger salamander (CTS) and the species has been documented within the vicinity of the Project (CDFW 2024a). CTS are known to breed and develop in vernal and seasonal pools and stock ponds in grassland habitat types and have been determined to be physiologically capable of dispersing up to approximately 1.5 miles from these habitats. As CTS have been documented in the Project vicinity, and have the potential to utilize the habitat within the Project Site, CDFW recommends the following:

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**Recommended Mitigation Measure 4: Focused CTS Protocol-level Surveys**

CDFW recommends that a qualified biologist conduct protocol-level surveys in accordance with the USFWS "Interim Guidance on Site Assessment and Field Surveys for Determining Presence or a Negative Finding of the California Tiger Salamander" (USFWS 2003) at the appropriate time of year to determine the existence and extent of CTS breeding and refugia habitat. The protocol-level surveys for CTS require more than one survey season and are dependent upon sufficient rainfall to complete. As a result, consultation with CDFW and the USFWS is recommended well in advance of beginning the surveys and prior to any planned vegetation- or ground-disturbing activities. CDFW advises that the protocol-level survey include a 100-foot buffer around the Project Site in all areas of wetland and upland habitat that could support CTS. Please be advised that protocol-level survey results are viable for two years after the results are reviewed by CDFW.

**Recommended Mitigation Measure 5: CTS Avoidance**

If CTS protocol-level surveys are not conducted, CDFW advises that a minimum 50-foot no-disturbance buffer be delineated around all small mammal burrows in suitable upland refugia habitat within and/or adjacent to the Project Site. Further, CDFW recommends potential or known breeding habitat within and/or adjacent to the Project site be delineated with a minimum 250-foot no-disturbance buffer. Both upland burrow and wetland breeding no-disturbance buffers are intended to minimize impacts to CTS habitat and avoid take of individuals. Alternatively, the applicant can assume presence of CTS within the Project Site and obtain from CDFW a State ITP in accordance with Fish and Game Code section 2081(b).

**Recommended Mitigation Measure 6: CTS Take Authorization**

If through surveys it is determined that CTS are occupying or have the potential to occupy the Project Site, consultation with CDFW is warranted to determine if the Project can avoid take. If take cannot be avoided, take authorization through the acquisition of an ITP, pursuant to Fish and Game Code section 2081 subdivision (b) is necessary to comply with CESA. As stated above, in the absence of protocol surveys, the applicant can assume presence of CTS within the Project site and obtain an ITP from CDFW.

**Crotch's bumble bee**

The Project Site is within the range of Crotch's bumblebee (CBB) and historical occurrences have been documented within the Project vicinity. CBB are known to inhabit areas of grasslands and scrub that contain requisite habitat elements for nesting,

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such as small mammal burrows and bunch/thatched grasses, and these habitat elements appear to be present within the Project Site. As such, CDFW recommends the following:

**Recommended Mitigation Measure 7: CBB Habitat Assessment**

CDFW recommends a qualified biologist conduct a habitat assessment to determine if the Project Site and the surrounding vicinity contain habitat suitable to support CBB. Potential nesting sites, which include all small mammal burrows, perennial bunch grasses, thatched annual grasses, brush piles, old bird nests, dead trees, and hollow logs would need to be documented as part of the assessment.

**Recommended Mitigation Measure 8: CBB Surveys**

If potentially suitable habitat is identified, CDFW recommends that a qualified biologist conduct focused surveys for CBB, and their requisite habitat features following the methodology outlined in the Survey Considerations for California Endangered Species Act Candidate Bumble Bee Species (CDFW 2024b). Xerces Society for Invertebrate Conservation, 2018.

**Recommended Mitigation Measure 9: CBB Avoidance**

If CBB is detected, then CDFW recommends that all small mammal burrows and thatched/bunch grasses be avoided by a minimum of 50 feet to avoid take and potentially significant impacts. If ground-disturbing activities will occur during the overwintering period (October through February), consultation with CDFW is warranted to discuss how to implement Project activities and avoid take. Any detection of CBB prior to or during Project implementation warrants consultation with CDFW to discuss how to avoid take.

**Recommended Mitigation Measure 10: CBB Take Authorization**

If take cannot be avoided, CDFW recommends acquiring an ITP pursuant to Fish and Game Code Section 2081(b), prior to initiating ground-disturbing activities.

**Burrowing owl**

The Project Site is within the historic range of burrowing owl (BUOW), and since the species is known to occupy grassland and agricultural habitats, there is the potential for BUOW within the vicinity of the Project Site.

As BUOW have the potential to nest and/or forage within the Project Site, CDFW recommends the following:

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**Recommended Mitigation Measure 11: BUOW Surveys Prior to Construction**

CDFW recommends that surveys, following the "Burrowing Owl Survey Protocol and Mitigation Guidelines" (CBOC 1993) and CDFW's "Staff Report on Burrowing Owl Mitigation" (CDFG 2012) be conducted the survey season immediately prior to construction.

**Recommended Mitigation Measure 12: BUOW Avoidance Buffer**

Should a BUOW be detected, CDFW recommends that no-disturbance buffers, as outlined in the "Staff Report on Burrowing Owl Mitigation" (CDFG 2012), be implemented prior to and during any ground-disturbing activities. Specifically, CDFW's Staff Report recommends that impacts to occupied burrows be avoided in accordance with the following table unless a qualified biologist approved by CDFW verifies through non-invasive methods that either: 1) the birds have not begun egg laying and incubation; or 2) that juveniles from the occupied burrows are foraging independently and are capable of independent survival.

| Location | Time of Year | Level of Disturbance | | |
|---|---|---|---|---|
| | | Low | Med | High |
| Nesting sites | April 1-Aug 15 | 200 m* | 500 m | 500 m |
| Nesting sites | Aug 16-Oct 15 | 200 m | 200 m | 500 m |
| Nesting sites | Oct 16-Mar 31 | 50 m | 100 m | 500 m |

* meters (m)

**Recommended Mitigation Measure 13: BUOW Consultation**

If BUOW are found within these recommended buffers and avoidance is not possible, consultation with the CDFW is recommended for guidance on the development of mitigation measures such as take avoidance, minimization, and mitigation.

**Editorial Comments and/or Suggestions**

**Nesting Birds**

CDFW encourages that Project construction occur during the bird non-nesting season; however, if ground-disturbing or vegetation-disturbing activities must occur during the breeding season (February 1 through September 15), the Project applicant is responsible for ensuring that construction of the Project does not result in violation of the Migratory Bird Treaty Act or relevant Fish and Game Code.

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To evaluate Project-related impacts on nesting birds, CDFW recommends that a qualified biologist conduct pre-activity surveys for active nests, no more than 10 days prior to the start of ground or vegetation disturbance to maximize the probability that nests that could potentially be impacted are detected. CDFW also recommends that surveys cover a sufficient area around the Project Site to identify nests and determine their status. A sufficient area means any area potentially affected, either directly or indirectly, by the Project. In addition to direct impacts (i.e., nest destruction), noise, vibration, and movement of workers or equipment could also affect nests. Prior to initiation of construction activities, CDFW recommends that a qualified biologist conduct a survey to establish a behavioral baseline of all identified nests. Once Project activities begin, CDFW recommends having a qualified biologist continuously monitor nests to detect behavioral changes resulting from the Project. If behavioral changes occur, CDFW recommends halting the work causing that change.

If continuous monitoring of identified nests by a qualified biologist is not feasible, CDFW recommends a minimum no-disturbance buffer of 250 feet around active nests of non-listed bird species and a 500-foot no-disturbance buffer around active nests of non-listed raptors. These buffers are advised to remain in place until the breeding season has ended or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or on-site parental care for survival. Variance from these no-disturbance buffers is possible when there is compelling biological or ecological reason to do so, such as when the Project Site would be concealed from a nest site by topography. CDFW recommends that a qualified biologist advise and support any variance from these buffers and notify CDFW in advance of implementing a variance.

**Federally Listed Species:** CDFW also recommends consulting with the USFWS on potential impacts to Federally listed species, including, but not limited to, the California tiger salamander. Take under the Federal Endangered Species Act (FESA) is more broadly defined than CESA; take under FESA also includes significant habitat modification or degradation that could result in death or injury to a listed species by interfering with essential behavioral patterns such as breeding, foraging, or nesting. Consultation with the USFWS in order to comply with FESA is advised well in advance of any ground disturbing activities.

**Waters of the State and U.S.:** A portion of the proposed Project is adjacent to the dirt-lined Enterprise Canal located in the northeast area of the Project Site. Pursuant to Fish and Game Code section 5650, it is unlawful to deposit in, permit to pass into, or place where it can pass into “Waters of the State” any substance or material deleterious to fish, plant life, or bird life, including non-native species. It is possible that without mitigation measures this Project could result in pollution of Waters of the State from storm water runoff or construction-related erosion. Potential impacts to the wildlife

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resources that utilize watercourses in the Project vicinity include the following: increased sediment input from road or structure runoff; construction-related activity runoff associated with Project-related activities and implementation; and/or impairment of wildlife movement through the area. The Regional Water Quality Control Board and United States Army Corps of Engineers (USACE) also have jurisdiction regarding discharge and pollution to Waters of the State.

**ENVIRONMENTAL DATA**

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database which may be used to make subsequent or supplemental environmental determinations (Pub. Resources Code, § 21003, subd. (e)). Accordingly, please report any special-status species and natural communities detected during Project surveys to the California Natural Diversity Database. The CNDDB field survey form can be found at the following link: https://www.wildlife.ca.gov/Data/CNDDB/Submitting-Data. The completed form can be mailed electronically to CNDDB at the following email address: CNDDB@wildlife.ca.gov. The types of information reported to CNDDB can be found at the following link: https://www.wildlife.ca.gov/Data/CNDDB/Plants-and-Animals.

**FILING FEES**

The Project, as proposed, would have an impact on fish and/or wildlife, and assessment of filing fees is necessary. Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW. Payment of the fee is required in order for the underlying project approval to be operative, vested, and final (Cal. Code Regs, tit. 14, § 753.5; Fish & G. Code, § 711.4; Pub. Resources Code, § 21089).)

**CONCLUSION**

CDFW appreciates the opportunity to comment and assist the City of Clovis in identifying and mitigating Project impacts on biological resources.

If you have any questions, please contact Kelley Nelson, Environmental Scientist, at the address provided on this letterhead, by telephone at (559) 580-3194, or by electronic mail at Kelley.Nelson@wildlife.ca.gov.

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Sincerely,

DocuSigned by:
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# Attachment 1

## CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
## RECOMMENDED MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)

## PROJECT: Lennar Homes of California Project

| RECOMMENDED MITIGATION MEASURE | STATUS/DATE/INITIALS |
|---|---|
| *Before Disturbing Soil or Vegetation* | |
| **SWHA** | |
| Recommended Mitigation Measure 1: SWHA pre-construction surveys | |
| Recommended Mitigation Measure 2: SWHA avoidance buffer | |
| Recommended Mitigation Measure 3: SWHA Take Authorization | |
| **CTS** | |
| Recommended Mitigation Measure 4: Focused CTS protocol-level surveys | |
| Recommended Mitigation Measure 5: CTS Avoidance | |
| Recommended Mitigation Measure 6: CTS take authorization | |
| **CBB** | |
| Recommended Mitigation Measure 7: CBB habitat assessment | |
| Recommended Mitigation Measure 8: CBB surveys | |
| Recommended Mitigation Measure 9: CBB Avoidance | |
| Recommended Mitigation Measure 10: CBB take authorization | |
| **BUOW** | |
| Recommended Mitigation Measure 11: BUOW surveys prior to construction | |
| Recommended Mitigation Measure 12: BUOW avoidance buffer | |
| Recommended Mitigation Measure 13: BUOW consultation | |

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| | |
|---|---|
| *During Construction* | |
| SWHA | |
| Recommended Mitigation Measure 2: SWHA Avoidance Buffer | |
| **CTS** | |
| Recommended Mitigation Measure 5: CTS avoidance | |
| **CBB** | |
| Recommended Mitigation Measure 9: CBB avoidance | |
| BUOW | |
| Recommended Mitigation Measure 12: BUOW Avoidance Buffer | |

CITY of CLOVIS
PLANNING & DEVELOPMENT
1033 FIFTH STREET • CLOVIS, CA 93612

# SPECIFIC SERVICE PLAN
# SHEPHERD-MINNEWAWA NORTHEAST REORGANIZATION
# RO310

## 1.1 INTRODUCTION

A Site Specific Service Plan for providing services and improvements to land being annexed to the City is required by the Fresno Local Agency Formation Commission (LAFCo). The site specific service plan provides assurance to LAFCo that newly annexed land to the City will be properly served as urban territory. The service plan also provides information to property owners, districts and interesting parties who may have projects underway within the vicinity of the proposed annexation.

On November 21, 2024, the Clovis Planning Commission conducted a noticed public hearing and adopted a resolution recommending approval of the following applications:

a. Adoption of an environmental finding of a mitigated negative declaration and a mitigation monitoring and reporting program for Reorganization (RO) 310, Prezone (R) 2024-005, Vesting Tentative Tract Map (TM) 6375, and Planned Development Permit (PDP) 2024-001.

b. Rezone 2024-005, approving a request to prezone the properties within the annexation area (201 acres) from the Fresno County AE-20 Zone District to the Clovis C-1, R-1-PRD, O, and P-C-C Zone Districts.

c. Vesting Tentative Tract Map 6375, approving a request for a 385-lot single-family planned residential development on approximately 58.9 acres of land subject to the City Council's approval of the annexation.

d. Planned Development Permit 2024-001, approving a request to approve a planned development permit for a 385-lot single-family residential development.

On December 16, 2024, the Clovis City Council conducted a noticed public hearing and took action to approve the following applications:

a. Adoption of an environmental finding of a mitigated negative declaration and a mitigation monitoring and reporting program for Reorganization (RO) 310, Prezone (R) 2024-005, Vesting Tentative Tract Map (TM) 6375, and Planned Development Permit (PDP) 2024-001.

b. Rezone 2024-005, approving a request to prezone the properties within the annexation area (201 acres) from the Fresno County AE-20 Zone District to the Clovis C-1, R-1-PRD, O, and P-C-C Zone Districts.

c. Vesting Tentative Tract Map 6375, approving a request for a 385-lot single-family planned residential development on approximately 58.9 acres of land.

d. Planned Development Permit 2024-001, approving a request to approve a planned development permit for a 385-lot single-family residential development.

On December 16, 2024, the Clovis City Council adopted a resolution addressing Reorganization RO310, requesting the Fresno Local Agency Formation Commission (LAFCo) take proceedings for the reorganization of the territory known as the Shepherd-Minnewawa Northeast Reorganization.

## 1.2 SERVICES EXISTING OR PROPOSED

### 1. Community Water Service

The Water Master Plan Update, completed in 2017, by Provost & Pritchard Consulting Group, was prepared to support the 2014 Clovis General Plan, and the development plans therein. The plan examined the feasibility of continued growth in the greater Clovis area from a water resource perspective. This included a review of existing and future demands for water from surface, groundwater, and reclaimed water. The study area corresponded with the General Plan planning area. The 2015 Urban Water Management Plan updated the water supply and demand issues identified in the 2017 Master Plan.

The City and Tarpey Village have 37 domestic water wells to provide for the needs of its residents. Some of these have wellhead treatment facilities to treat contaminated groundwater. The wells discharge water into a distribution main grid, based on a minimum of 12-inch mains, spaced at half-mile intervals. The present water storage facilities consist of one elevated tank and three ground level tanks. The total storage capacity is 7 million gallons.

The City began operations of the Surface Water Treatment Facility, located on the Enterprise Canal on the east side of Clovis, in 2004. Kings River water is supplied to the plant via Fresno Irrigation District's (FID) Enterprise Canal. This 15 million gallon-per-day (MGD) plant allows Clovis to serve existing users and new growth areas, while lessening the demand on groundwater. In 2014, treatment capacity at the SWTF was increased to 22.5 MGD.

In 2009, the City began operation of the Water Reuse Facility (WRF) to treat wastewater from a portion of the City's growth areas. In 2012, the City began using recycled water from this facility to irrigate public landscapes. At build-out of the system, this facility will be able to produce 8.4 MGD of recycled water.

The strategy for future water supply is termed "conjunctive use" where multiple elements are used to provide a secure long-term supply. It includes using both groundwater and treated surface water to ensure a secure drought-resistant water supply with the flexibility to use surface and groundwater supplies in a cost and operationally-efficient manner. This strategy is conducive to phased development that is critical to both community approval and existing operational constraints.

Water systems for newly developed areas, such as the project site, will be financed by development fees, assessment districts, and capital facilities funding. Additional surface water supplies for certain growth areas will be financed by the Water Supply development fee.

### 2. Water

The following water conditions have been placed on the project:

1. The applicant shall identify and abandon all water wells to City standards.

2. The applicant shall install water mains of the sizes and in the locations indicated below, and provide an adequately looped water system prior to occupancy. The water improvements shall be in accordance with the City's master plans and shall match existing improvements. The applicant's engineer shall be responsible for verifying the size, location, and elevations of

existing improvements. Any alternative routing of the mains shall require approval of the City Engineer and shall be supported by appropriate calculations.

a. North Minnewawa Avenue – install 12" main along frontage.

b. North Clovis Avenue – install 12" main along frontage.

c. Interior Streets – install 8" mains.

d. Install facilities to provide separation between Pressure Zone 2 east of North Minnewawa Avenue and Pressure Zone 1 west of North Minnewawa Avenue.

3. The applicant shall install a City standard water service to each lot of the proposed subdivision. Water services shall be grouped at property lines to accommodate automatic meter reading system, including installation of connecting conduit. The water meter shall be placed in the sidewalk and not in planters or driveways.

4. All existing water services that will not be used with this development shall be abandoned by closing the service's corporation stop and creating a physical separation between the corporation stop and the service.

5. The applicant shall notify all property owners' annexed to the City and along streets where a new water main will be constructed to determine if they wish to be connected to City water. Property owners shall work directly with the applicant regarding costs and location. The applicant shall notify property owners that water connection fees are required if they choose to connect.

6. Prior to recording a final map of any phase, the applicant shall demonstrate to the satisfaction of the City Fire Chief and City Engineer that there is adequate water pressure to serve the units to be constructed. The applicant shall work with the City Engineer to determine the adequacy of water supply/pressure for the proposed development.

7. Applicant acknowledges that water distribution and treatment capacity for the area within which the proposed subdivision is located is extremely limited, and that distribution may not be available to provide service for the proposed subdivision at such time as applicant is ready to seek approval of a final map. Applicant acknowledges, understands, and agrees that if such water distribution and treatment capacity is not available to serve the proposed subdivision, as determined in the sole and absolute discretion of the City of Clovis, the final map may not be approved. Notwithstanding the foregoing, applicant has freely and voluntarily chosen to proceed with the submittal and processing of the tentative map, intends to expend money, time and effort in connection therewith, and accepts the risks that the final map approval may be delayed until sufficient distribution is available as determined in the sole and absolute discretion of the City of Clovis. Applicant agrees to hold harmless and indemnify the City of Clovis from any and all claims, costs, expenses, and damages incurred or suffered by applicant, its principals, officers, employees, agents, or contractors, caused by, in connection with, or arising out of the unavailability of water distribution or treatment capacity to serve the proposed subdivision, or the City's refusal or failure to approve a final map for the proposed subdivision because of the unavailability of water distribution or treatment capacity.
    a. The Project requires the improvements indicated below in accordance with the Water Master Plan. The City Engineer shall determine the timing of the improvements in the event they are installed by a City CIP project or development.
    b. P-3 (16" Water Main)
    c. P-4 (12" Water Main)
    d. T-6 (3.5 MG Tank)

e. T-9 (7 MG Tank)

### 3. Recycled Water

The following recycled water conditions have been placed on the project:

8. The applicant shall install recycled water mains of the sizes and in the locations indicated below. The recycled water improvements shall be in accordance with the City's master plans and shall match existing improvements. All areas utilizing recycle water for irrigation shall be clearly marked on the improvement plans. The applicant's engineer shall be responsible for verifying the size, location, and elevations of existing improvements. Any alternative routing of the mains shall require approval of the City Engineer and may require appropriate calculations.

    a. North Minnewawa Avenue – install 8" main along frontage.

    b. North Clovis Avenue – install 16" main along the property.

    c. Paseos, Trails, and Neighborhood Parks – install mains as necessary to serve the paseos, trails, and the neighborhood parks.

### 4. Wastewater

The Fresno-Clovis Regional Wastewater Treatment Facility serves the Fresno and Clovis urban area from its location southwest of the two cities. The City of Clovis owns and maintains sewer lines within the City Sphere of Influence, with the exception of the Tarpey Village area, which is maintained by the City of Fresno. The City operates the Water Reuse Facility which treats wastewater from a portion of the City and provides recycled water for use in public landscapes. This facility will be expanded as required to serve portions of the northwest and northeast growth areas. The City does not have sewer collection facilities constructed for the entire current Sphere of Influence at this time, but all areas have been master planned.

The Clovis Wastewater Master Plan Update in 2017 provided the City with a course of action with respect to wastewater service needs through the year 2035, in keeping with the Clovis General Plan.

Wastewater facilities for newly developed areas will be financed by development fees, assessment districts, and capital facilities funding.

The following sewer conditions have been placed on the project:

9. The applicant shall identify and abandon all septic systems to City standards.

10. The applicant shall install sanitary sewer mains of the size and in the locations indicated below, prior to occupancy. The sewer improvements shall be in accordance with the City's master plans and shall match existing improvements. The applicant's engineer shall be responsible for verifying the size, location, and elevations of existing improvements. Any alternative routing of the mains shall require approval of the City Engineer and shall be supported by appropriate calculations. The improvements indicated below will provide temporary service until the improvements are installed that provide permanent service.

    a. North Minnewawa Avenue – install 12" main along frontage.

    b. North Clovis Avenue – install 10" main along frontage.

    c. Interior Streets – install 8" mains.

11. The applicant shall install one (1) 4" sewer service house branch to each lot within the tentative tract.

12. All existing sewer services that will not be used with this development shall be abandoned by cutting and capping the service at the right-of-way line.

13. The applicant shall notify all property owners annexed to the City and along streets where a new sewer main will be constructed to determine if they wish to be connected to City sewer. Property owners shall work directly with the applicant regarding costs and location. The applicant shall notify property owners that sewer connection fees are required if they choose to connect.

14. The City cannot guarantee at this time that sewer capacity will be available for this development when site construction occurs. The applicant, therefore, waives any claim or demand against the City for any delay in availability of sewer capacity for this subdivision.

15. Applicant acknowledges that sewage collection and treatment capacity for the area within which the proposed subdivision is located is extremely limited, and that capacity may not be available to provide service for the proposed subdivision at such time as applicant is ready to seek approval of a final map. Applicant acknowledges, understands, and agrees that if such sewage collection and treatment capacity is not available to serve the proposed subdivision, as determined in the sole and absolute discretion of the City of Clovis, the final map may not be approved. Notwithstanding the foregoing, applicant has freely and voluntarily chosen to proceed with the submittal and processing of the tentative map, intends to expend money, time and effort in connection therewith, and accepts the risks that the final map approval may be delayed until sufficient capacity is available as determined in the sole and absolute discretion of the City of Clovis. Applicant agrees to hold harmless and indemnify the City of Clovis from any and all claims, costs, expenses, and damages incurred or suffered by applicant, its principals, officers, employees, agents, or contractors, caused by, in connection with, or arising out of the unavailability of sewage collection or treatment capacity to serve the proposed subdivision, or the City's refusal or failure to approve a final map for the proposed subdivision because of the unavailability of sewage collection or treatment.

    a. Permanent service to the Project requires the improvements indicated below in accordance with the Sewer Master Plan. The City Engineer shall determine the timing of the improvements in the event they are installed by a City CIP project or development.

    b. CIP Project 6-B (DeWolf Trunk Sewer System).

    c. CIP Project 6-A (Shepherd / Willow Pump Station and Force Main System).

    d. CIP Project AA (Phase 2 STWRF Expansion).

**5. <u>Dedications and Street Improvements</u>**

The following street conditions have been placed on the project:

16. The applicant shall provide right-of-way acquisition or dedicate free and clear of all encumbrances and/or improve the following streets to City standards. The street improvements shall be in accordance with the City's specific plans and shall match existing improvements. The applicant's engineer shall be responsible for verifying the type, location, and grades of existing improvements.

    a. North Minnewawa Avenue – dedicate to provide right-of-way acquisition for 42.5' (exist varies) east of centerline and 24.5' (existing 20') west of centerline, and improve with curb, gutter, sidewalk, curb return ramps, street lights, fiber optic conduit, landscape strip, 43' (20.5' west + 22.5' east) permanent paving, permanent paving

and overlay as necessary to match the existing permanent pavement, 3' paved swale, and transitional paving as needed.

b. North Clovis Avenue – dedicate to provide right-of-way acquisition for 106' (exist 0'), and improve with curb, gutter, sidewalk, drive approaches, curb return ramps, street lights, fiber optic conduit, median island, median island landscaping and irrigation, landscape strip, 56' (28' west + 28 east') permanent paving, permanent paving and overlay as necessary to match the existing permanent pavement, 3' paved swale, and transitional paving as needed.

c. Interior Streets – Dedicate to provide for 50' or 54' of right-of-way in conformance with the City policy on street widths, and improve with curb, gutter, 5' sidewalk adjacent to the curb, drive approaches, curb return ramps, streetlights, permanent paving, and all transitional paving as needed.

d. Cul-De-Sacs - dedicate to provide for 52' radius and improve with curb, gutter, sidewalk, street lights, 43' permanent paving and all transitional paving as needed.

e. Install a traffic signal at North Baron and North Clovis Avenues and provide the necessary right-of-way for the signal in its ultimate location.

f. The applicant shall relinquish all access to Clovis and Minnewawa Avenues.

g. Median island turn pockets require the approval of the City Engineer.

17. The applicant shall provide a dedication for a 10' public utility easement, where applicable, along all public frontages. The applicant shall be responsible for obtaining approval by the utilities companies where alternate widths are provided. The applicant shall provide to the City copies of all final easements prior to final map acceptance.

18. For new onsite ADA paths of travel that connect to the City sidewalk, the applicant shall replace enough sidewalk to provide a compliant landing with appropriate transitions to existing sidewalk grades.

19. The applicant shall remove and repair all damaged or broken concrete improvements. The City Engineer may require the repair of additional improvements if they are damaged prior to occupancy.

20. The applicant shall not install any fences, temporary or permanent in public right-of-way.

21. The applicant shall provide preliminary title report, legal description and drawings for all dedications required which are not on the site. All contact with owners, appraisers, etc. of the adjacent properties where dedication is needed shall be made only by the City. The City will prepare an estimate of acquisition costs including but not limited to appraised value, appraisal costs, negotiation costs, and administrative costs. The applicant shall pay such estimated costs as soon as they are determined by the City.

22. The sideyard side of all corner lots shall have full width sidewalk except where planter strips or meandering sidewalk is proposed.

23. The applicant shall obtain "R Value" tests in quantity sufficient to represent all street areas, and have street structural sections designed by a registered civil engineer based on these "R Value" tests.

24. The applicant shall, at the ends of any permanent pavement abutting undeveloped property, install 2" x 6" redwood header boards that shall be placed prior to the street surfacing.

25. Standard barricades with reflectors shall be installed at ends of streets abutting undeveloped property and any other locations to be specified by the City Engineer.

## 6. Solid Waste Collection

Refuse Collection collects and disposes of solid waste generated by residential and commercial customers located within the City. Private vendors, under City contract, collect waste from select commercial customers and recyclables and yard wastes from residential customers. For improved cost accounting and control, the Refuse Collection Unit is further organized into four sub-accounts identified as Administration, Residential, Commercial, and Community Cleanup.

Refuse Landfill conducts all operations necessary to landfill City refuse in accordance with county, state, and federal requirements. The Clovis landfill is an active Class III landfill which accepts municipal solid waste that is currently permitted through the year 2053.

Refuse Contracts provides refuse-related services to the community through contracts with private vendors. These include refuse compactor and roll-off services for larger businesses, and residential curbside recycling, and greenwaste programs.

## 7. Fire Protection

The Fire Department employs two primary measures in determining service for the community and future development. The first measure is distribution. “Distribution” describes station locations that allow for a rapid first-due response deployment to mitigate fire and medical aid emergencies before they result in further life/property loss. Distribution is measured by how much of the jurisdiction is covered by first due units within our adopted response time goal of arrival within 5 minutes or less 90% of the time. The second term, “concentration” is a measure of how many multiple units are within sufficient proximity to provide the necessary tools, equipment and personnel, known as an effective response force, for a large scale incident or when another unit is assigned to a concurrent emergency. An initial effective response force is one that has been determined likely to stop the escalation of a fire emergency and bring it effectively under control.

In addition to these factors, Clovis Fire has conducted several station location studies over the last ten years to ensure efficient and effective operations. Stations have generally been located in between 4.5 to 5 mile squares near major street intersections. Previous studies identified various station configurations that could serve City growth depending on the type of development and infrastructure planned for these areas. Currently, the Clovis Fire Department operates out of five fire stations located throughout the City.

In determining desired levels of resource concentration to maintain existing standards and to provide equal protection to future growth areas, the Clovis Fire Department analyzed the risk assessment, call volume, population, critical task analysis, and industry standards. Depending on the factors previously noted, the number of units needed for an initial effective response force are dispatched as defined in the Critical Task Analysis document.

Consideration for community protection must also take into account utilization of Automatic Aid Agreements that provide the closest available resources, regardless of jurisdiction. Using software programs and data from neighboring jurisdictions, fire staff are able to analyze the concentration of units revealing detailed information regarding the deployment of resources necessary to provide an effective fire fighting force within defined response time goals for a geographic area neighboring other fire protection districts.

The Emergency Services Bureau is responsible for providing the resources needed by Fire Department staff who respond daily to requests for emergency and non-emergency services from the citizens of Clovis

through four divisions: Operations, Support Services, Training, and Communications. The Operations Division activities include: responding to fires, first responder medical services, mutual/automatic aid, mapping, apparatus replacement, etc. The Training Division activities include coordination of recruitment, testing and training of new employees, in-service training for all Department employees and coordinated use of the Fire Training Center. Support Services Division activities include: apparatus maintenance, facilities maintenance, station supplies, etc. The Communications Division has responsibility for coordinating dispatch services to the Fire Department. Fire dispatch services are provided via a contract with the Fresno County Emergency Medical Services Division. Dispatch services coordinate the emergency response of all City fire resources and mutual or automatic aid resources. The Department continues to promote sound planning, economic efficiency, and effective use of the City resources while providing essential and valuable services.

The Life Safety and Enforcement Bureau is responsible for providing community risk reduction activities through two divisions: Fire Prevention and Emergency Preparedness. The Fire Prevention Division assists local businesses and building development though activities such as inspections and plan review to ensure safe occupancies comply with fire codes, standards, and local ordinances. Additional risk reduction is performed through public education where citizens learn about actions they can take to reduce their fire risk and learn emergency preparedness skills that are essential during times of crisis. Within the Bureau, the Investigations team has the responsibility to investigate all fires for cause and origin, and enforce minimum standards to safeguard life, health, property, and public welfare.

The Emergency Preparedness Division has the responsibility for preparing and carrying out emergency plans to protect property and the citizens of Clovis in case of actual or threatened conditions of disaster or extreme peril. This includes having an emergency plan in place, maintaining an Emergency Operations Center (EOC), ensuring policies and procedures are compliant with the National Incident Management System (NIMS) guidelines and exercises are conducted to evaluate system effectiveness. Within the Emergency Preparedness section are the Hazardous Materials Response Team and an Urban Search and Rescue Team. These teams are capable of responding to emergency incidents that require specialized tools, equipment, and personnel. Some funding for this division is augmented by state and federal grants.

The Fire Administration Division is responsible for supporting all department operations, administering the Accreditation program, and the development and administration of the Fire Department budget. Fire Administration provides administrative analysis, report preparation, coordination of programs, incident response data management, timekeeping, and other routine duties performed daily that support the delivery of emergency and non-emergency services. Fire Administration also identifies, writes, and manages grants to supplement funding for all Department programs.

The following fire conditions have been placed on the project:

26. Two Points of Access: Any development to this parcel will require a minimum of two (2) points of access to be reviewed and approved by the Clovis Fire Department. All required access drives shall remain accessible during all phases of construction which includes paving, concrete work, underground work, landscaping, perimeter walls. Developments of one- or two-family dwellings where the number of dwelling units exceeds 30 shall be provided with two separate and approved fire apparatus access roads.

27. Street Width for Single Family Residences: Minimum Access Road Width of 36 feet for Single Family Residences. Roads 36 feet or wider allow for Parking on both sides of street.

28. Exception Streets with houses on only one side of the street: Roads 32 feet or greater, to less than 36 feet in width require Fire Lane Markings on one side of the street. Parking is allowed on one side of street.

29. Street Width: Fire apparatus access width shall be determined by measuring from "base of curb" to "base of curb" for roadways that have curbs. When roadways do not have curbs, the measurements shall be from the edge of the roadway surface (approved all weather surface).

30. Turning Radius: All access way roads constructed shall be designed with a minimum outside turning radius of forty-five feet (45').

31. Temporary Street Signs: The applicant shall install temporary street signs that meet City Temporary Street Sign Standard #1.9 prior to issuance of building permits within a subdivision.

32. All Weather Access &Water Supply: The applicant shall provide all weather access to the site during all phases of construction to the satisfaction of the approved Clovis Fire Department Standard #1.2 or #1.3.

33. Private Street Names: Private street names shall be consistent with public street names to the north and south or to the east and west alignments as approved by the Fire Department.

34. Fire Access – Landscape Obstruction: Landscaping trees or shrubs located adjacent to the fire access drives shall be of the type that will not impede fire access due to their growth process.

35. Residential Fire Hydrant: 4 ½" x 2 ½" approved Residential Type fire hydrant(s) and "Blue Dot" hydrant locators, paint fire hydrant(s) yellow with blue top and caps, and paint the curb red shall be installed as specified by the adopted Clovis Fire Department Standard #1.4. Plans shall be submitted to the Clovis Fire Department for review and approval prior to installation. The hydrants shall be charged and in operation prior to any framing or combustible material being brought onto the site. Hydrants curb markings and blue dots to be completed prior to occupancy of any homes.

36. Looped Water Main: The applicant shall install approved looped water main capable of the necessary flow of water for adequate fire protection and approved by the Clovis Fire Department.

## 8. Law Enforcement

The responsibility of the Police Department is to provide protection and police-related services to the community. The Department's mission is to do this in a manner that builds public confidence and improves the quality of life in Clovis. Police headquarters is located at the Clovis Civic Center. Currently, the Police Department is allotted for 112 sworn officers. The current ratio is 0.90 sworn officers per 1,000 residents. In accordance with the recommendations contained in the Police Department Master Service Plan, the Police Department will seek funding to achieve and maintain a ratio of 1.3 officers per 1,000 residents.

Police protection to the unincorporated areas is provided by the Fresno County Sheriff and California Highway Patrol. The City has a mutual aid assistance agreement with both agencies.

The operations of the Police Department, now and as the City grows, will be funded through the General Fund, Community Facilities District (CFD) fund, and grants. It is noted that continued annexation and development without proportionate increase in the funding of safety services will have an effect on the city's ability to maintain acceptable service levels. If unable to maintain acceptable service levels, the department will have to reduce response to certain calls and possibly eliminate other services altogether. This reduction of services will greatly impact our citizens and the quality of life in our community.

The Department is organized into three major divisions, which are composed of seven budgetary sections.

The following Police Department conditions have been placed on the project:

37. Construction work shall be limited to the hours set forth in the Clovis Municipal Code. (CMC § 5.27.604.)

38. It shall be the responsibility of the property owner to maintain the structures and adjoining fences to the project free of graffiti. All forms of graffiti shall be removed within 48 hours. (CMC §§ 5.27.101.)

39. Emergency phone numbers for responsible parties shall be kept current during the building phase of the project.

40. All construction materials shall be located within a secured area or monitored by security staff during non-construction hours.

## 9. Parks & Recreation

The Parks Section provides maintenance to City parks, trails and trail lighting, street landscaping, City trees, and numerous recreational facilities, including playgrounds and picnic sites; maintains Old Town streetscape; and provides grounds maintenance at City administrative facilities. Some of these areas are maintained by Parks personnel, while others are maintained through contracts administered by the Parks section. Parks also provides support for civic activities such as hanging banners and decorating for Christmas, Rodeo Weekend, Big Hat Days, and Farmer's Market. The Parks Section administers the Landscape Maintenance District (LMD), which provides funding for maintenance of certain parks, trails, street landscaping, streetlights, and neighborhood architectural enhancement features for areas within the Landscape Maintenance District. All City owned landscaping that is not within the LMD is funded through the General Fund.

## 10. Transit Services

The Community Services Division administers various senior citizen programs at the Clovis Senior Activity Center. The Division also administers the City's Round-Up demand-response transit program, the fixed-route Stageline transit program, and administers the City's contract with Fresno Area Express (FAX). User fees, and state and federal transit funds and grants support the transit service.

## 11. Storm Drainage

Storm Drain responds to significant rainfall events by providing sand bags, pumping of flooded areas, monitoring stream channels, placing warning signage, and pumping temporary storm drain basins when needed. It also provides pre-storm cleaning of drain inlets to ensure debris do not hamper proper operation of the storm drain collection system. As development occurs, applicants will be required to construct storm drainage facilities in accordance with the standard and requirements of the Fresno Metropolitan Flood Control District. Specific conditions for improvements to the storm drainage system will be issued as development projects are proposed and approved.

## 12. Street Lighting

The City is responsible for maintenance of traffic signals, the cost of energy/repairs/replacements for PG&E-owned streetlights within the City, energy and materials for City-owned streetlights, and maintenance of City-owned streetlights.

The following street light condition has been placed on the project:

41. The applicant shall install street lights. Street lights along the major streets shall be installed on metal poles to local utility provider's standards at the locations designated by the City Engineer. Street light locations shall be shown on the utility plans submitted with the final map for approval. Street lights at future traffic signal locations shall be installed on approved traffic signal poles, including all conduits and pull boxes. Street lights along the major streets shall be owned and maintained by local utility providers. Proof of local utility provider's approval shall be provided. The

applicant may install thematic lighting, as approved by the City Engineer. If the applicant chooses to install thematic lighting, the applicant shall provide a conceptual lighting plan identifying adjacent properties that may be incorporated with thematic lights to create a neighborhood effect. Thematic lighting owned by the City shall be maintained by an additional landscape maintenance assessment.

## 13. Schools

The City of Clovis and its sphere of influence lies primarily within the Clovis Unified School District (CUSD). The portion the sphere of influence within the Loma Vista Specific Plan, east of the Highland Avenue alignment lies within the Sanger Unified School District (SUSD). Only a small portion of the southwest area of the city lies in the Fresno Unified School District (FUSD). These districts are affected by residential growth in the Clovis area. The area of the City serviced by FUSD is fully built-out and future development within the City's sphere of influence will not affect this district.

## 14. Other Services

Pacific Gas and Electric (PG&E) provides gas and electrical service to the City of Clovis, its sphere of influence, and Fresno County. Electrical service is supplied by underground and overhead lines routed through three substations in the greater Clovis area. The hierarchy of establishing electrical power lines from generation stations to customers is as follows: transmission distribution; sub-transmission; and service. PG&E provides gas to customers through plastic and steel underground lines. Residents not serviced by PG&E use propane fuel.

## 15. Financing of Services and Facilities

The City Council has established fiscal policies that govern the city's financial administration and are designed to safeguard the City's assets, provide a stable funding base, and ensure that adequate accounting data are compiled. These accounting data allow for the preparation of various accounting reports such as the annual budget and the annual year-end financial report. Following are the financial policies that provide the basis for the financial direction of the city.

- The City's budget policy states that all operating budgets shall be balanced and ongoing costs will not exceed current revenues plus available fund balance that exceeds reserve requirements. The minimum reserve for any operational fund is 10% of the budgeted expenditures with the goal for reserves of 15% of budgeted expenditures unless capital borrowing or extraordinary fiscal conditions require that higher levels of reserves be maintained. As discussed during the five-year forecast, the General Fund target reserve is now set at 25%, the current General Fund reserve is approximately 16.5%. Budgetary and purchasing controls have been instituted that ensure adherence to the adopted budget.

- The Enterprise Funds are to be fully supported by user fees and charges, and the Internal Services Funds are to be funded at appropriate levels to ensure reasonable ability to respond to unforeseen events. Annually, the City has designated a contribution of general funds to the General Government Services Fund (an Internal Service Fund) to address the building space needs for new fire stations, safety training facilities, regional park facilities, business and industrial parks, upgrades and new technology for improved productivity, and major remodeling, repairs, or additions to existing facilities.

- The City will not issue long-term debt to cover current operations. The City will consider the issuance of long-term debt to purchase/build capital assets when those assets will benefit users over several years and it is determined that it is more equitable to spread the capital investment and financing costs of the asset to current and future users of the asset.

- Annually the City will have an independent audit of its financial records prepared by a certified public accountant pursuant to generally accepted auditing practices of the government finance industry and submit an annual financial report to the City Council by December 31 for the previous fiscal year.

- Fees for services will be charged directly to users of the services when appropriate and should cover the full cost of service delivery. Fees are to be reviewed on an annual basis to ensure that the fee is appropriate for the service provided compared to actual cost or an approved cost index.

- Development impact fees will be established to ensure that new growth pays the cost of infrastructure improvements and is not a burden to existing tax payers.

- The City will invest available cash assets in a manner consistent with the safeguards and diversity that a prudent investor would adhere to with primary emphasis on preservation of principal, sufficient liquidity to cover anticipated payment outflows, and high yields consistent with the first two goals. The City's investments will be consistent with Section 53601 of the Government Code of the State of California that identifies which types of investments are eligible for investment of public funds and the maximum percentage of an investment portfolio that is allowed for any one investment.

The City is in compliance with all of its financial policies.

## 16. California Environmental Quality Act (CEQA) Compliance

The City of Clovis has completed an environmental review (an assessment of the Project's impact on natural and manmade environments) of the proposed project, as required by the State of California. A Mitigated Negative Declaration was approved and adopted by the Clovis City Council in conjunction with its approval of the Project.

# CITY of CLOVIS

## REPORT TO THE CITY COUNCIL

TO: Mayor and City Council

FROM: Planning and Development Services

DATE: December 16, 2024

SUBJECT: Consider various items associated with ±14.57 acres of land located on the south side of E. Perrin Avenue, between N. Minnewawa Avenue and west of the N. Clovis Avenue alignment. David Williams, John & Tricia Zimmerer, Merrill Michael, Misha Kay Wight Miller, and Jon Kurisu owners; Bonadelle Homes, applicant; Scott Harbour, representative.

a. Consider Approval - Res. 24-__, A resolution of the City Council adopting an environmental finding of a Mitigated Negative Declaration and a Mitigation Monitoring and Reporting Program for Vesting Tentative Tract Map 6467 and Planned Development Permit 2024-003.

b. Consider Approval - Res. 24-__, TM6467, A resolution of the City Council approving a vesting tentative tract map for a 162-lot single-family planned residential development.

c. Consider Approval - Res. 24-__, PDP2024-003, A resolution of the City Council approving a planned development permit for a 162-lot single-family residential development.

**Staff:** Marissa Parker, Assistant Planner
**Recommendation:** Approve

ATTACHMENTS:

1. Draft Resolution CEQA
2. Draft Resolution TM6467
3. Draft Resolution PDP2024-003
4. Proposed Development Standards for PDP2024-003
5. Proposed Park Amenity for PDP2024-003
6. Elevations and Floor Plans
7. Correspondence from Commenting Agencies
8. Initial Study Mitigated Negative Declaration and MMRP

## RECOMMENDATION

Staff recommends that the City Council approve each component of the Project as identified in the title.

## EXECUTIVE SUMMARY

Bonadelle Homes ("Applicant") proposes to subdivide the subject properties to facilitate the development of a 162-lot single-family subdivision, Tract Map 6467 ("TM6467"). Currently, the properties are located within Fresno County's jurisdiction and are zoned AE-20 (Exclusive Agricultural, 20-acre minimum parcel size). The properties will be annexed into the City Limits and prezoned to the R-1-PRD (Single-Family Planned Residential Development) zone district, through separate entitlements. The separate entitlements are identified as Reorganization 310 ("RO310") and Prezone 2024-005 ("R2024-005"). The Project site is located on ±14.57 acres of primarily undeveloped land with three (3) single-family residences and accessory buildings, which are located on the south side of E. Perrin Avenue, between N. Minnewawa Avenue and the N. Clovis alignment ("Property"). The Project proposes a 162-lot single-family subdivision with associated infrastructure improvements. In conjunction with TM6467, Planned Development Permit 2024-003 ("PDP2024-003") is required for the proposed planned residential development to ensure a comprehensive development of high quality. The aforementioned entitlements are hereinafter collectively referred to as the "Project". The Project will include site improvements, including landscaping, parking, sidewalks, and utility infrastructure. Approval of this Project would allow the developer to continue processing a residential site plan review ("RSPR") entitlement and development drawings.

## BACKGROUND

- General Plan Designation: Medium Density Residential (4.1-7.0 DU/Ac.)
  Medium High Density Residential (7.1-20.0 DU/Ac.)
- Master Plan Designation: Heritage Grove Master Plan
- Existing Zoning: Fresno County AE-20 (Exclusive Agricultural)
- Proposed Zoning: R-1-PRD (Single-Family Planned Residential Development) (under R2024-005 entitlement)
- Project Size: ±14.57 acres
- Current Land Use: Single-Family Residences, Vacant
- Adjacent Land Uses:
  - North: Rural Residential / Single-Family Residence, Orchards
  - South: Vacant
  - East: Vacant
  - West: Rural Residential / Single-Family Residence, Orchards
- Previous Entitlements: N/A

The Project site is in the City's Heritage Grove growth area and is currently within the County of Fresno's jurisdiction. The Project site has been planned in the City's general plan as future Medium and Medium-High Density Residential development. Medium Density Residential allows for single-family residential development at a density of 4.1-7.0 dwelling units per acre, whereas Medium High Density Residential designation allows for single-family residential development at a density of 7.1-20.0 dwelling units per acre. The Project proposes to blend the Medium and Medium High densities to obtain the maximum number of units allowed based on the acreage.

The resulting project density is 11.6 dwelling units per acre. Further details regarding the general plan land use designation(s) calculation is provided in the report below. The Project site is currently zoned Fresno County AE-20 (Exclusive Agricultural) and is a primarily undeveloped site with three (3) single-family residences and accessory buildings. Surrounding properties contain orchards, single-family residences, and vacant/undeveloped land.

**PROPOSAL AND ANALYSIS**

As shown in **Figure 1** below, the Project boundary consists of ±14.57 acres and is located on the south side of E. Perrin Avenue, between N. Minnewawa Avenue and the N. Clovis Avenue alignment in the County of Fresno. As indicated above, the Project site is located on a primarily undeveloped site with three (3) single-family residences and accessory buildings. Additionally, the Project is situated adjacent to primarily vacant and agricultural properties designated for future residential development at varying densities, a future park, and existing single-family residences to the east and southeast. The Project will occupy the entire parcel with Accessor's Parcel Numbers (APNs) 556-030-04, 06, 08, and 09.

The Project includes two planning entitlements, including a vesting tentative tract map (TM6467) and PDP (PDP2024-003). The tentative tract map is required to subdivide the Project site in accordance with the Subdivision Map Act and City standards. The PDP entitlement is necessary to evaluate the unique development standards and enhanced development features, such as architecture, landscaping, parking, and additional amenities. If the Project is approved, a residential site plan review (RSPR) is required to memorialize the design and layout of the homes. The RSPR will be reviewed at the staff level.

The Project is within the City's Heritage Grove planned growth area. Heritage Grove encompasses approximately ±2,560 acres of land bounded by Willow Avenue to the west, Sunnyside Avenue to the east, Copper Avenue to the north, and Shepherd Avenue to the south. The 2014 Clovis General Plan designates the Project site for residential uses. The Project area is planned to be converted to non-agricultural land pursuant to the 2014 General Plan.

**Figure 1 – Project Location**

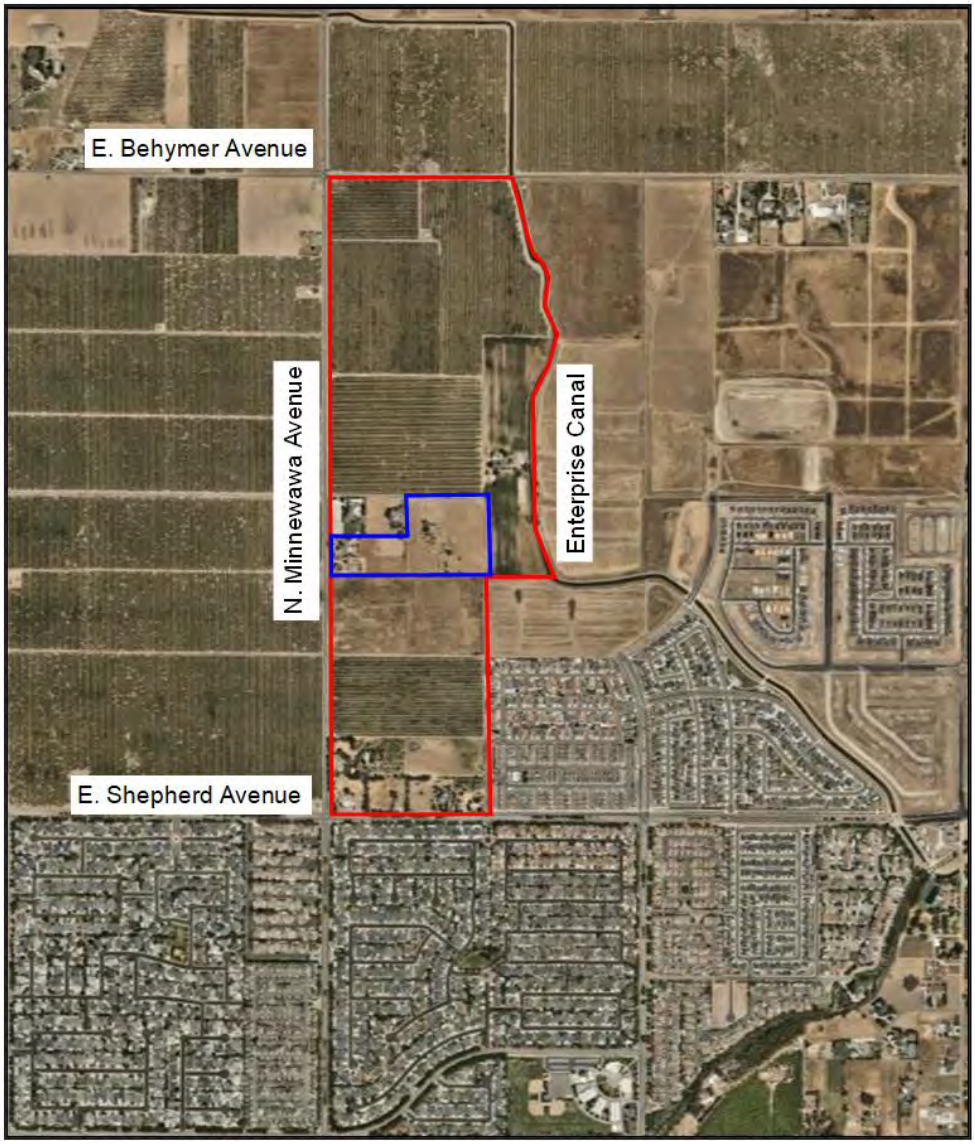



## Annexation & Pre-Zoning

The Project is situated within the City's Heritage Grove planned growth area and requires annexation into the City. The Project site will be annexed into the City Limits and prezoned to the R-1-PRD (Single-Family Planned Residential Development) zone district, through separate entitlements, RO310 and R2024-005. While the Project site encompasses approximately 14.57 acres, a larger annexation area is proposed after consultation with the County of Fresno and the Fresno Local Agency Formation Commission (LAFCo) staff to establish a logical boundary for incorporation with regard to the overall annexation timing of projects in this area (see **Figure 2** below). In addition to the ±14.57-acre development site, the proposed annexation boundary includes properties planned for future residential development at similar densities, future community park, mixed use development, and neighborhood commercial. The annexation application will undergo consideration by the City Council and, if approved, will proceed to the LAFCo for processing and final consideration. Development of the Project cannot occur without the completion of the annexation process.

As mentioned above, the Project site will be prezoned to the R-1-PRD Zone District through R2024-005. The prezoning process is a prerequisite for the property's integration into the City. The R-1-PRD Zone District is appropriate for single-family small lot uses, including attached and detached single-family structures, and is applicable to this Project. The R-1-PRD Zone District is consistent with the Medium and Medium High Density land use designations of the Project site.

**Figure 2 – Annexation Boundary**



**Planned Development Permits**

The proposed R-1-PRD Zone District requires the associated PDP. As indicated above, PDPs are required for all planned residential developments. The PDP process allows design flexibility and encourages innovative and superior site planning, culminating in a comprehensive, high-quality development. Further details regarding the PDP are outlined below.

Development Standards

The PDP provides the flexibility to adjust or modify development standards, such as building coverage, height, setbacks, fence and wall heights, landscaping, open space, and street layout, where necessary and justifiable. **Table 1** below outlines the proposed development standards for the development. While the Applicant has provided models for their development, they will be assessed against the established development standards and formalized through the RSPR process, which has been included as a condition of approval for TM6467 and PDP2024-003.

**Table 1 – Planned Development Permit Development Standards**

| Standards | Harvest Product (162 lots) | Typical City Standards R-1-MD (Medium High Density) |
|---|---|---|
| Minimum Lot Size (Square Feet) | 2,220 | 4,500 |
| Minimum Parcel Width | 37 feet | 50 feet |
| Minimum Curved Parcel Width | 60 feet | 50 feet |
| Minimum Corner Parcel Width | 37 feet | 50 feet |
| Minimum Parcel Depth | 60 feet | 90 feet |
| Maximum Lot Coverage | 65% | 45% |
| Maximum Height | 35 feet / 2 Stories | 35 feet / 2 Stories |
| Front (Garage) Setback | 5 feet | 20 feet |
| Front (Living) Setback | 5 feet | 15 feet |
| Setback to Projections and/or Porch/ Patio | 4 feet | 15 feet |
| Garage Side Setback | 5 feet | 5 feet |
| Corner Street Side Setbacks | 3 feet | 10 feet |
| Reversed Corner Street Side Setback | 3 feet | 15 feet |
| Corner Street Side Fence Setback | 3 feet | 15 feet |
| Interior Side Yard Setback (opposite from garage) | 3 feet | 5 feet |
| Rear Setback | 5 feet | 15 feet |
| Garages | • 20’x20’ interior dimension (2-car)<br>• 12’x20’ interior dimension (1-car) | 20’x22’ interior dimension (2-car) |

**Table 1** above delineates alterations to the typical development criteria associated with the Medium Density zone districts (R-1-MD). The Project site has split designations of Medium and Medium High Density. Although the R-1-MD Zone District isn’t consistent with the Medium High Density land use designation, it represents the smallest lot sizes accommodated by traditional single-family residential zone districts and therefore is utilized for comparison. The utilization of Planned Residential Developments approved through the PDP process is required to achieve single-family development in the Medium High Density land use designation as identified in Table LU-3 of the City’s General Plan. The table above categorically presents various

development standards, including the applicant's proposed standards for the proposed residential development. For comparison, the last column of the table provides standards for the typical zone district consistent with Medium density, specifically the R-1-MD Zone District. The development standards requested primarily consist of reductions in listed standards, such as lot size, parcel configuration, setbacks, garage sizes, and an increase in maximum lot coverage. Furthermore, the proposed homes will include a total of one (1) home model featuring a single-car garage, whereas it is typical for a single-family home to provide a 2-car garage. An allowance for single-car garage configurations has been requested on up to 58 of the 162 lots within the subdivision. These lots are located adjacent to the planned-off-street parking areas.

It's important to emphasize that, to ensure adequate side yard access and proper storage for trash toters, the Project proposes a minimum setback of five (5') feet for all garage-side setbacks. Additionally, the Project is conditioned to provide an all-weather surface for the placement and storage of trash receptacles, extending from the 5-foot side yard (garage side) to the front of the property. These proposed development standards are in line with recent projects approved under the PDP process.

Proposed Amenities

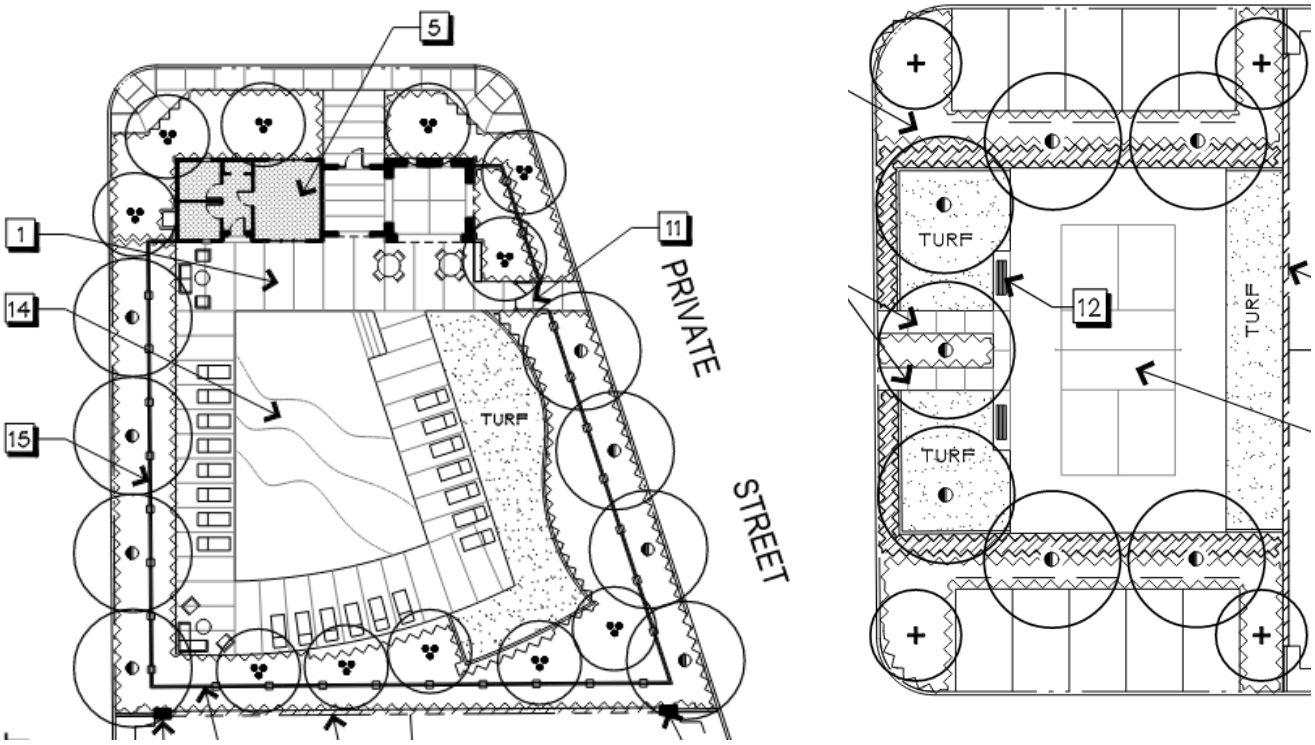
Chapter 9.66 of the Clovis Municipal Code, Planned Development Permits, offers a framework for flexibility in development standards to accommodate various development types that may not conform to standard regulations. Within this context, planned residential developments are mandated to provide a program of public amenities commiserate to the deviations being requested. Amenities may include but are not limited to features such as open space and improvements to the existing public facilities such as parks and trails. It's important to note that PDP amenities are assessed on a project-by-project basis, as each development is unique in terms of its scale, location, and context.

In exchange for the requested concessions, such as reduced lot sizes, setbacks, increased lot coverage, and non-standard garages, the Applicant proposes a range of project amenities aimed at benefiting both homeowners and the wider community. These amenities include two (2) community areas totaling ±21,997 square feet (see **Figure 3** below). The first area is ±8,639 square feet and includes open space areas and a pickleball court. The second area is ±13,358 square feet and includes a recreation center with fitness rooms, covered dining areas, restrooms, open space areas, and a 50-foot-long pool. Both areas provide landscaping and walkways for access to and from the areas. The specific details of the areas will be evaluated through the civil review process for compliance with the Clovis Municipal Code ("CMC") and Water Efficient Landscape Ordinance ("WELO").

When assessing and determining an adequate amenity that would provide a public benefit, staff evaluated opportunities for open space and other public improvements near the proposed tract map. Staff identified the construction of the planned trail along N. Sunnyside Avenue, adjacent to the existing PG&E substation. As part of the amenities, the Project will contribute a dollar amount totaling approximately $40,165 towards the development of the Sunnyside Avenue trail. This monetary contribution is based on a calculation methodology recently utilized in conjunction with other projects. Ultimately, if the development of this portion of the trail is infeasible, the funds could be used for alternative public benefit improvement outside of the Project vicinity, such as

the development of shade structures and seating areas within the following neighborhood parks: Woods Park (TM5146), Pinnacles Park (TM5002) or Countryside Park (TM4732/5545).

**Figure 3 – Conceptual Park Designs**




In addition to the requirement for proportional amenities, approval of a planned development permit necessitates the demonstration of superior development quality compared to what could be achieved through conventional development practices on the site. This might entail enhancements such as upgraded entry points, embellished block walls along street frontages, and superior exterior elevation design. These features are typically integrated into the proposed planned development projects by the applicant, subject to review and approval during the civil plan review process and residential site plan evaluation for individual lots.

Planned Development Permit Required Findings and Analysis

The required findings for the approval of a PDP application, and staff's response to each of those findings are listed below. (CMC § 9.66.060.)

1. The PDP would:

    a. Be allowed within the subject base zoning district.

        *The proposed Planned Development Permit is permissible within the R-1-PRD Zone District, which is proposed concurrently with the Prezoning of the Project site.*

b. Be consistent with the purpose, intent, goals, policies, actions, and land use designations of the General Plan and any applicable specific plan.

*The Project proposes a single-family residential use, which is consistent with the established land uses of the General Plan. Policy 3.6 of the Land Use Element of the General Plan encourages a mix of housing types, unit sizes and densities. The Project would comply with Policy 3.6 by providing a housing product that adds to the variety of housing stock within the City.*

c. Be generally in compliance with all of the applicable provisions of this Development Code relating to both on- and off-site improvements that are necessary to accommodate flexibility in site planning and property development and to carry out the purpose, intent, and requirements of this chapter and the subject base zoning district, including prescribed development standards and applicable design guidelines.

*The Project incorporates measures to construct both on-site and off-site improvements in accordance with the City's adopted infrastructure master plans and the standards outlined in the 2014 General Plan. The design of these improvements align with the proposed Project development standards and land use change(s) outlined in the staff report.*

d. Ensure compatibility of property uses within the zoning district and general neighborhood of the proposed development.

*As mentioned previously, the Project is located on a primarily undeveloped site with three (3) single-family residences and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities. The Project is located within the Heritage Grove planned growth area. Although the Project is proposing to convert agricultural land to residential uses, this conversion is consistent with the 2014 General Plan. Upon completion, the Project will not be consistent with the existing rural residential, orchards and vacant/undeveloped properties that currently exist in the surrounding area. However, it will be consistent with future single-family development at Medium and Medium High Densities, in accordance with the General Plan designations.*

2. The proposed Project would produce a comprehensive development of superior quality (e.g., appropriate variety of structure placement and orientation opportunities, appropriate mix of structure sizes, high quality architectural design, increased amounts of landscaping and open space, improved solutions to the design and placement of parking facilities, incorporation of a program of enhanced amenities, etc.) than which might otherwise occur from more traditional development applications.

*The Project integrates design elements that elevate its quality beyond traditional developments. Notably, it includes amenities like two (2) pocket parks, which total approximately 21,997 square feet. Per the Heritage Grove Master Plan, a community corner paseo is required at the southwest corner of the N. Clovis Avenue alignment and E. Perrin Avenue. The architectural design of the model homes will undergo thorough evaluation during the residential site plan review process to ensure high quality.*

3. Proper standards and conditions have been imposed to ensure the protection of the public health, safety, and welfare.

   *The proposed PDP will comply with the CMC, all Fire Department standards and Building Code regulations to ensure adherence to public health and safety requirements.*

4. Proper on-site traffic circulation and control is designed into the development to ensure protection for fire suppression and police surveillance equal to or better than what would normally be created by compliance with the minimum setback and parcel width standards identified in Division 2 of this title (Zoning Districts, Allowable Land Uses, and Zone-Specific Standards).

   *The proposed PDP2024-003 will adhere to the standards set by the Fire Department and the requirements of the City Engineer concerning fire suppression measures and enhancements to traffic flow related to TM6467.*

5. The subject parcel is adequate in terms of size, shape, topography, and circumstances to accommodate the proposed development.

   *The proposed development has undergone scrutiny through the City's preliminary application process (Development Review Committee), confirming the site's physical suitability for accommodating the proposed Project. Additionally, a thorough review and routing of the applications determined that the Project will occupy and operate within an existing site that is physically suitable in size, compatible with surrounding uses. The Project will be required to install the infrastructure required and necessary to support it. The Project will be required to comply with all conditions from Public Utilities and Engineering, which will further ensure the site is suitable for the proposed use. Site specific details will be evaluated through the SPR process.*

6. The design, location, operating characteristics, and size of the proposed development would be compatible with the existing and future land uses in the vicinity, in terms of aesthetic values, character, scale, and view protection.

   *As indicated above, the proposed PDP2024-003 is compatible with the existing and planned adjacent land uses. In regard to view protection, the PDP proposes a reduced maximum height limit than that prescribed under the comparable R-1 Zone*

*District. The proposed development will process a RSPR application where aesthetics and design will be evaluation in compliance with the Development Code.*

**Vesting Tract Map**

The Project encompasses a ±14.57-acre site and is associated with TM6467, provided as **Attachment 2B**. TM6467 consists of 162 residential lots and three (3) outlots, allocated for amenities and open space. Further specifics regarding the vesting tentative tract map are detailed below.

Lot Details

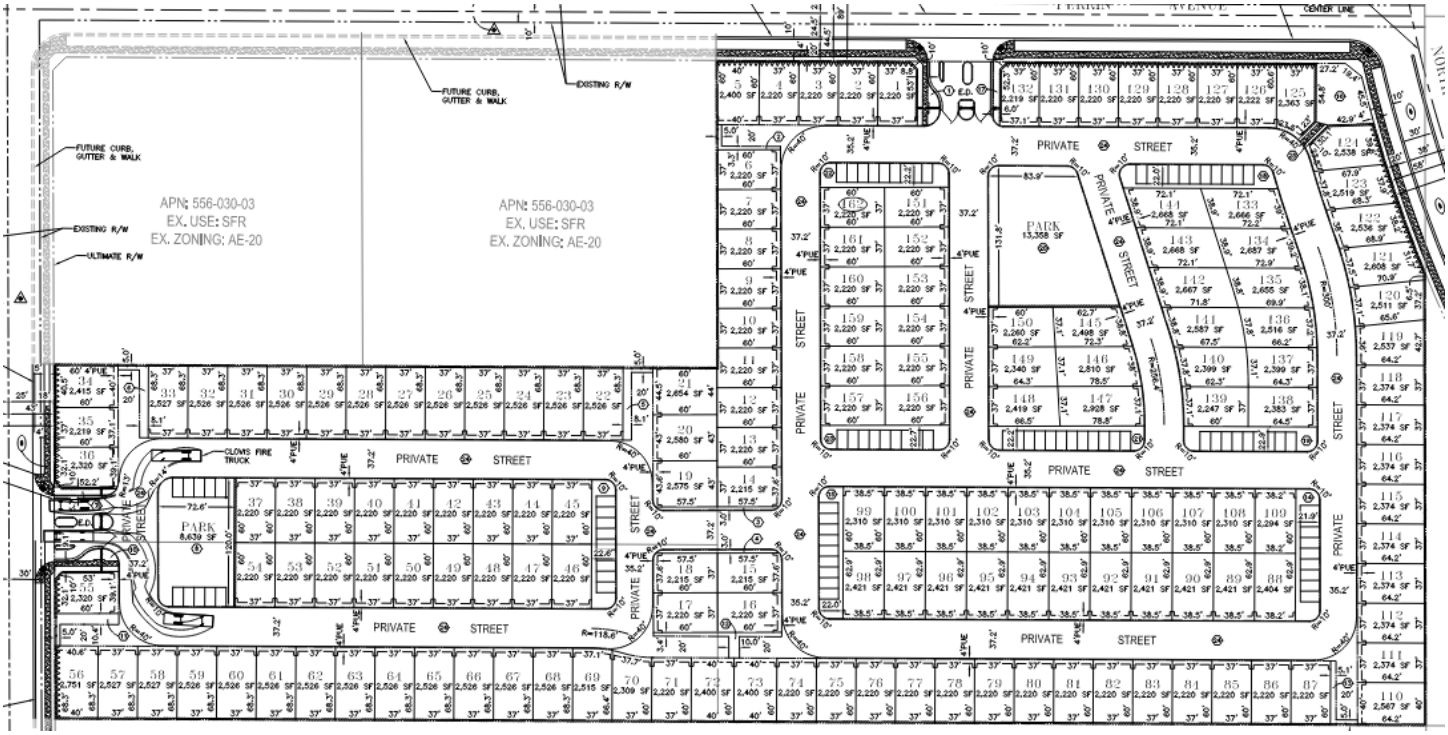
The Project is proposing 162 lots, ranging from ±2,220 square feet to ±2,928 square feet, with an average of ±2,364 square feet. The Project includes one product line, the Harvest product, that consists of four (4) home models with varying elevation options. Because of the size of the lots, the homes are all proposed to be two stories. The proposed floor area for the homes are ±1,209, ±1,398, ±1,512, and ±1,579 square feet, respectfully.

These specific product types present distinctive lot sizes that differ from the standard zoning districts outlined in the Municipal Code. The PRD designation permits these unique lot sizes along with specific development standards, as detailed in the PRD section of the report. While the lot sizes are unique, this type of development is similar to other planned residential developments within the City of Clovis.

Circulation

As shown in **Figure 4** below, the Project aims to improve the general circulation in the area by upgrading existing streets and constructing new ones, including internal private streets within the Project site. The Project will be required to construct N. Clovis Avenue and improve E. Perrin and N. Minnewawa Avenues to City standards. Along with improvements to the surrounding streets, the Applicant is also proposing a network of internal private streets. The Project would be accessed via two (2) ingress/egress access points, one (1) from N. Minnewawa Avenue and one (1) from E. Perrin Avenue. The installation of pedestrian paths of travel from the Minnewawa, Perrin and Clovis frontages would be required as part of the Project. Throughout the tract map, the private streets are between 35.2 feet and 37.2 feet in width allowing for parking on both sides and meeting City standards for private streets.

**Figure 4 – Proposed TM6467**




Homeowners Association

As the Project is gated, a Homeowner's Association ("HOA") is required for the purpose of maintaining open spaces and common areas, ensuring they remain well-kept and functional as well as enforcing the covenants, conditions and restrictions. This requirement is designed to uphold community standards and elevate the quality of life for residents within the Project's jurisdiction.

General Plan Designation and Density Calculation

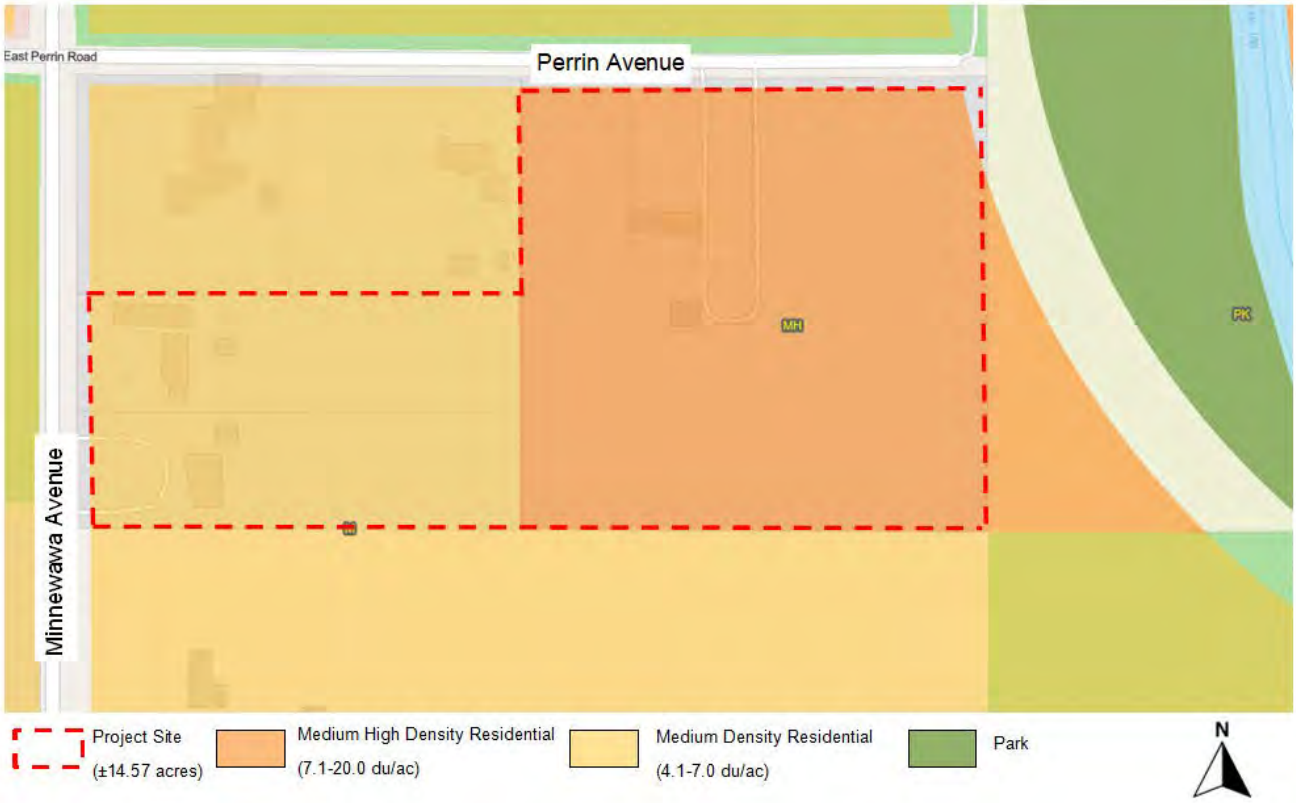
As shown below in **Figure 5**, the Project site has existing general plan land use designations of Medium and Medium-High Density Residential. Medium Density Residential allows for single-family residential development at a density of 4.1-7.0 dwelling units per acre, whereas Medium High Density Residential designation allows for single-family residential development at a density of 7.1-20.0 dwelling units per acre. The project calculates the maximum allowable density by combining the maximum units permitted for each land-use designation based on their respective acreages. This is then translated into the overall maximum density. **Table 2** below provides a breakdown of the calculations, showing the maximum units and density for the project.

**Table 2 – Density calculation**

| | |
|---|---|
| 4.78 Acres of M (Medium) @ 7 du/ac | 33 |
| 10.0 Acres of MH (Medium High) @ 20 du/ac | 200 |
| Max Lots Allowable | 233 Lots |
| Max Density Allowable | 15.99 du/ac |
| | |
| Proposed Density | 11.6 du/ac |
| Actual Lots Proposed by TM6467 | 162 Lots |

The resulting Project density is 11.6 dwelling units per acre. Per policy 3.6 within the Land Use Element of the 2014 Clovis General Plan, individual projects five (5) acres or larger may be developed at densities equivalent to one designation higher or lower than the assigned designation, provided that the density across an individual project remains consistent with the General Plan. Thus, the blending of Medium and Medium High Densities is consistent with the General Plan and consistent with other projects that have been approved throughout the City.

**Figure 5 – Planned Land Use Designation**




Sewer and Water Impact

The Project's impacts to water and sewer facilities were analyzed during the California Environmental Quality Act (CEQA) review. Provost and Pritchard, the City's water system consultant, provided a summary of water system impacts and concluded that the City has capacity to serve, and that infrastructure can accommodate the Project upon completion of the

recommended connections. The City Engineer completed a sewer analysis and concluded that the City has capacity to accommodate the Project.

Heritage Grove Thematic Elements

The City's 2014 General Plan directed the preparation and adoption of a comprehensive design document for the Heritage Grove area. As a result, the Heritage Grove Design Guidelines was developed and adopted on December 5, 2016. The document is intended to build upon the merits of the distinctive area that contains a unique and valuable agricultural and cultural heritage and to provide a vision and guidance for its future development and sustainability. The design document establishes an overall agricultural theme and quality for Heritage Grove. It illustrates and directs the intended architectural, landscape, and site elements to reinforce the theme and quality. Criteria and examples of design and treatments are provided throughout the document.

The proposed development is required through the Heritage Grove Design Guidelines to install a community corner paseo at the southwest corner of N. Clovis and E. Perrin Avenues. The previously approved TM6343, located at the southwest area of Behymer Avenue and the Sunnyside Avenue alignment, will be the first of its kind to install the corner gateway feature. The final design is still in progress, aiming to establish a design that meets the intent provided in the Heritage Grove Design Guidelines. Therefore, the final design as established with TM6343 will be carried out with this development.

Vesting Tentative Tract Map Required Findings and Analysis

The following are findings required to approve a vesting tentative tract map. (CMC §§ 9.102.060, subd. (A), and 9.102.110, subd. (C).)

1. The proposed map, subdivision design, and improvements are consistent with the General Plan and any applicable specific plan.

   *The proposed map (TM6467) design maintains consistency with both the General Plan and the proposed PDP. The Project meets various goals and policies of the General Plan, as stated in the Consistency with General Plan Goals and Policies section of this report. All improvements will adhere to the conditions of approvals and City standards. The specifics of these improvements will undergo scrutiny during the City's civil plan review process to ensure compliance with standards.*

2. The site is physically suitable for the type and proposed density of development.

   *Refer to number 5 of the Findings for Planned Development Permit section.*

3. The design of the subdivision and the proposed improvements are not likely to cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat.

   *As described in the Initial Study/Mitigated Negative Declaration prepared for the Project (**Attachment 8**), environmental impacts were determined to be less than significant with implementation of mitigation measures. Consequently, the Project*

*is not anticipated to inflict substantial environmental harm or endanger fish and wildlife.*

4. The design of the subdivision or type of improvements is not likely to cause serious public health or safety problems.

   *The design of the Project will comply with the Development Code, Fire Department standards, and Building Code regulations to ensure adherence to public health and safety requirements. Furthermore, during review of the Project, agencies and City departments had the opportunity to review the Project to ensure consistency with City codes and regulations and no serious public health or safety concerns were identified. Therefore, the Project was determined not to be detrimental to the public interest, health, safety, or general welfare of the City.*

5. The design of the subdivision or the type of improvements will not conflict with easements acquired by the public at large for access through or use of property within the proposed subdivision. This finding may also be made if the review authority finds that alternate easements for access or use will be provided, and that they will be substantially equivalent to ones previously acquired by the public. This finding shall apply only to easements of record, or to easements established by judgment of a court of competent jurisdiction, and no authority is hereby granted to the review authority to determine that the public at large has acquired easements of access through or use of property within the proposed subdivision.

   *During the final map review process conducted by the City's Engineering Division, all easements will be identified. Additionally, during the final map review, the City Engineer and other outside agencies will ensure that no conflicts with easements would occur as a result of the Project. As needed, alternate easements will be found that will be substantially equivalent to those previously required in TM6467.*

6. The discharge of sewage from the proposed subdivision into the community sewer system will not result in violation of existing requirements prescribed by the California Regional Water Quality Control Board.

   *The City Engineer has determined that the City has the capacity to accommodate the proposed Project. Installation of sewer lines within the proposed subdivision and beyond its borders will adhere to the regulations set forth by the California Regional Water Quality Control Board.*

7. The design of the subdivision provides, to the extent feasible, passive or natural heating and cooling opportunities.

   *The proposed subdivision will comply with the CMC and California Building Code requirements as it relates to heating and cooling opportunities within TM6467.*

8. The proposed subdivision, its design, density, and type of development and improvements conform to the regulations of this Development Code and the regulations of any public agency having jurisdiction by law.

   *The proposed subdivision comprises of single-family housing, consistent with the prescribed land uses outlined in the General Plan. The existing R-1-PRD Zone District allows for the proposed use and PDP development standards. The proposed development will process an RSPR application, where aesthetics and design will be evaluated in compliance with the Development Code and established PDP development standards.*

**Consistency with General Plan Goals and Policies**

Staff has evaluated the Project in light of the goals and policies of the General Plan. The following goals and policies reflect Clovis' desire to maintain Clovis' tradition of responsible planning and well-managed growth to preserve the quality of life in existing neighborhoods and ensure the development of new neighborhoods with an equal quality of life. These goals and polices seek to foster more compact development patterns that can reduce the number, length, and duration of auto trips.

**Goal 3:** Orderly and sustainable outward growth into three Urban Centers with neighborhoods that provide a balanced mix of land uses and development types to support a community lifestyle and small-town character.

Policy 3.5 **Fiscal sustainability.** The City shall require establishment of community facility districts, lighting and landscaping maintenance districts, special districts, and other special funding or financing tools in conjunction with or as a condition of development, building or permit approval, or annexation or sphere of influence amendments when necessary to ensure that new development is fiscally neutral or beneficial.

Policy 3.6 **Mix of housing types and sizes.** Development is encouraged to provide a mix of housing types, unit sizes, and densities at the block level.

**Goal 5:** A city with housing, employment, and lifestyle opportunities for all ages and incomes of residents.

Policy 5.1: **Housing variety in developments.** The Clovis General Plan has been planned to provide a variety of housing product types suitable to each stage of a person's life. Each development should contribute to a diversity of housing sizes and types within the standards appropriate to the land use designation. This policy does not apply to projects smaller than five acres.

**Planning Commission Hearing – November 21, 2024**

On Thursday, November 21, 2024, the Planning Commission considered the Project, with staff presenting the Project alongside its recommendations and detailed information as described in the staff report. Staff did not receive opposing comments from any of the surrounding property

owners and no one spoke in opposition of the project during the hearing. After discussion, the Planning Commission voted to recommend that the Council approve the entitlements associated with the Project. All the items were approved with a vote of 3-1-1, with Commissioner Bedsted voting no and Chair Antuna absent. During the Commission's deliberation on the project, Commissioner Bedsted noted concerns regarding lot sizes, lack of sidewalks, and the design of the tract.

**Public Comments**

The City published a notice of this public hearing in The Business Journal on Wednesday, December 4, 2024. A public hearing notice was sent to area residents within 1,500 feet of the Property boundaries for the December 16, 2024, City Council hearing. As of the completion of this staff report, staff has not received any comments from the public.

**Review and Comments from Agencies**

The Project was distributed to all City divisions as well as outside agencies, including Caltrans, Clovis Unified School District, Fresno Irrigation District, Fresno Metropolitan Flood Control District, AT&T, PG&E, San Joaquin Valley Air Pollution Control District, State Department of Fish and Wildlife, and the County of Fresno.

Comments received are attached (**Attachment 7**) only if the agency has provided concerns, conditions, or mitigation measures. Routine responses and comment letters are placed in the administrative record and provided to the Applicant for their records.

**Community Facilities District**

The fiscal analysis of the Heritage Grove Master Plan identified possible long-term funding shortfalls in the Clovis Citywide operating and maintenance costs. To address this issue the City of Clovis implemented a Community Facilities District. Community Facilities Districts (CFDs) are a means of providing additional funding for the provision of public facilities and services for public safety in newly developing areas of the community where the city would not otherwise be able to afford to continue to provide an adequate level of service as the City continues to grow. The use of CFDs is fairly common among cities in California experiencing high rates of growth, such as Clovis, due to significant losses of local revenue from tax shifts authorized by the State of California and the need to continue to provide an adequate level of service as growth occurs. A condition of approval has been added to this tentative map requiring participation of this vesting tentative map in the CFD.

**California Environmental Quality Act (CEQA)**

The City of Clovis has completed an Initial Study (see **Attachment 8**) assessing the Project's impact on natural and manmade environments, as required by the State of California. Staff is recommending approval of a mitigated negative declaration ("MND"). An MND is a written statement announcing that this project will not have a significant effect on the environment with the implementation of mitigation measures. The complete Initial Study/Mitigated Negative Declaration is provided as **Attachment 8** and may also be found on the City's website at: https://cityofclovis.com/planning-and-development/planning/ceqa/.

In summary, environmental impacts were determined to be found less than significant with implementation of mitigation measures for greenhouse gas emissions, biological resources, cultural resources, transportation, vehicle miles traveled, and tribal cultural resources (See the Mitigation and Monitoring Program attached hereto as part of **Attachment 8**). The Notice of Intent to adopt an MND was posted to the City's website at the web address listed above (Cal. Code Regs., Tit.14, § 15072, subd. (b)(2).). The proposed MND was made available for public comment and review at the City's Planning and Development Services Department from October 31, 2024, and will conclude December 2, 2024. (Cal. Code Regs., Tit. 14, § 15073, subd. (a).)

**FISCAL IMPACT**
None.

**REASON FOR RECOMMENDATION**
The proposed Project will provide a diversity in housing types, contribute a quality residential product and further advance growth within the Heritage Grove growth area as envisioned by the General Plan. The Project does not substantially impact sewer, water and other public services and will contribute to their proportionate share of infrastructure and open space. The Project is consistent with the goals and policies of the General Plan and Development Code. Additionally, each component of the Project meets the findings that must be considered when making a decision on a project, as outlined in the sections above. Staff therefore recommends the City Council adopt a MND and mitigation monitoring program in accordance with CEQA, and approve TM6467 and PDP2024-003, subject to the conditions of approval provided in **Attachments 1A, 2A,** and **3A**.

**ACTIONS FOLLOWING APPROVAL**
None.

**CONFLICT OF INTEREST**
None.

Prepared by: Marissa Parker, Assistant Planner

Reviewed by: City Manager

# RESOLUTION 24-___

## RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS ADOPTING A MITIGATED NEGATIVE DECLARATION FOR VESTING TENTATIVE TRACT MAP 6467 AND PLANNED DEVELOPMENT PERMIT 2024-003, PURSUANT TO THE CALIFORNIA ENVIRONMENTAL QUALITY ACT GUIDELINES

**WHEREAS,** Bonadelle Homes, 7030 Fruit Avenue #101, Fresno, CA 93711, has submitted various applications including, Vesting Tentative Tract Map 6467 (TM6467) and Planned Development Permit (PDP) 2024-003 ("Project") for property located south of E. Perrin Avenue, between N. Minnewawa Avenue and the N. Clovis Avenue Alignment ("Property"); and

**WHEREAS,** the City of Clovis ("City") caused to be prepared an initial study (hereinafter incorporated by reference) to evaluate potential environmental impacts from the Project, and on the basis of that study, it was determined that no significant environmental impacts would result from this Project with the adoption of mitigation measures; and

**WHEREAS,** the City adopted a Supplemental Environmental Impact Report (SEIR) for the 2014 General Plan Circulation Element Update on October 17, 2022. The SEIR evaluated potential land uses consistent with the General Plan and their associated VMT impacts. The SEIR finds that implementation of the 2014 General Plan may result in VMT metrics that are greater than the applicable thresholds. Mitigation measures include policies to reduce VMT. Because the City cannot demonstrate that the implementation of these policies would achieve VMT reductions to meet the VMT thresholds, the impacts would remain significant and unavoidable. Therefore, following approval of the SEIR, individual land use development projects that are consistent with the 2014 General Plan have the opportunity to tier their environmental review from the General Plan SEIR. The SEIR has disclosed the VMT impacts of land use development consistent with the General Plan. Therefore, significant and unavoidable VMT impacts associated with the General Plan have already been disclosed. Because the proposed Project is consistent with the 2014 General Plan, the Project's significant transportation impact does not require a project specific EIR. Overall, the Project, as determined to be consistent with the 2014 General Plan, would result in a Significant and Unavoidable impact; and

**WHEREAS,** on the basis of this initial study, a proposed mitigated negative declaration has been prepared, circulated, and made available for public comment pursuant to the California Environmental Quality Act ("CEQA"), Public Resources Code, section 21000, et seq., and Guidelines for implementation of CEQA, 14 California Code of Regulations, sections 15000, et seq.; and

**WHEREAS**, the Planning Commission considered the Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program on November 21, 2024, recommending approval of said MND and MMRP; and

**Attachment 1**

**WHEREAS**, the notice of intent to adopt a mitigated negative declaration was posted to City's website in accordance with CEQA Guidelines section 15072, subdivision (b)(2), and notice of the public hearing for this item was published with the Fresno Business Journal on December 2, 2024; and

**WHEREAS**, the City Council has independently reviewed, evaluated, and considered the CEQA analysis outlined in the staff report, initial study, mitigated negative declaration, mitigation monitoring and reporting program, and all comments, written and oral, received from persons who reviewed the mitigated negative declaration, or otherwise commented on the Project (Administrative Record).

**NOW, THEREFORE, BASED UPON THE ENTIRE RECORD OF THE PROCEEDINGS, THE CITY COUNCIL RESOLVES AND FINDS AS FOLLOWS:**

1. The foregoing recitals as true and correct.

2. The initial study and mitigated negative declaration for the Project are adequate, reflect the City's independent judgment and analysis, and have been completed in compliance with CEQA and the CEQA Guidelines.

3. That the initial study and mitigated negative declaration were presented to the Planning Commission and the Planning Commission has independently reviewed, evaluated, and considered the initial study, mitigated negative declaration and all comments, written and oral, received from persons who reviewed the initial study and mitigated negative declaration, or otherwise commented on the Project (Administrative Record) prior to approving the Project.

4. On the basis of the whole record, that there is no substantial evidence that the Project will have a significant effect on the environment with the adoption of the mitigation measures identified in **Attachment A**.

5. The mitigated negative declaration and the mitigation monitoring program set forth in **Attachment A**, including the mitigation measures identified therein and as described in the mitigated negative declaration itself are hereby adopted.

6. Directs that the record of these proceedings shall be contained in the Department of Planning and Development Services located at 1033 Fifth Street, Clovis, CA 93612, and the custodian of the record shall be the City Planner or other person designated by the Planning and Development Services Director.

7. The Planning and Development Services Director, or his/her designee, is authorized to file a notice of determination for the Project in accordance with CEQA and to pay any fees required for such filing.

8. The basis for the findings is detailed in the November 21, 2024, staff report, which is hereby incorporated by reference in its entirety, the entire Administrative Record,

as well as evidence and comments presented in connection with the mitigated negative declaration.

* * * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED: December 16, 2024

_____ Mayor

_____ City Clerk

**ATTACHMENT A:**
**Mitigation Monitoring Program – TM6467**

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| ***Air Quality*** | | | | |
| AIR-1 | Before a construction permit is issued for the proposed project, the project applicant, project sponsor, or construction contractor shall submit documentation demonstrating reasonably detailed compliance with the following requirements to the City of Clovis:<br>(1) Where portable diesel engines are used during construction, all off-road equipment with engines greater than 50 horsepower shall have engines that meet or exceed either United States Environmental Protection Agency (EPA) or California Air Resources Board (CARB) Tier 4 Interim off-road emission standards or be equipped with Level 3 diesel particulate filters. Tier 4 Interim engines shall, at a minimum, meet EPA or CARB particulate matter emissions standards for Tier 4 Interim engines. Alternatively, use of CARB-certified Level 3 diesel particulate filters on off-road equipment with engines greater than 50 horsepower can be used in lieu of Tier 4 Interim engines or in combination with Tier 4 Interim or better engines. The construction contractor shall maintain records documenting its efforts to comply with this requirement, including equipment lists. Off-road equipment descriptions and information shall include, but | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | are not limited to, equipment type, equipment manufacturer, equipment identification number, engine model year, engine certification (Tier rating), horsepower, and engine serial number. The project applicant and/or construction contractor shall submit the construction operations plan and records of compliance to the City of Clovis. | | | |
| ***Biological Resources*** | | | | |
| BIO-1 | If ground disturbance (including grading, grubbing, home demolition, tree removal, or construction equipment and materials mobilization) is initiated during the nesting season (February 1 – August 31), a pre-construction survey for potential nesting raptors, migratory birds, and burrowing is recommended. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| ***Cultural Resources*** | | | | |
| CULT-1 | If archaeological or tribal resources or materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants. | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.<br><br>If a potentially-eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met. | | | |
| CULT-2 | If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code and Project shall follow the procedures and protocols set for un CEQA Guidelines Section 15064.4(e)(1). If human remains are identified to be those of Native American, California Health and Safety Code 7050.5 requires the County coroner notify the NAHC within 24 hours of discovery. All reports, correspondence, and determinations regarding the discovery of | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | human remains on the project site shall be submitted to the Lead Agency. | | | |
| ***Geological Resources*** | | | | |
| GEO-1 | If prehistoric or historic-era cultural materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist and/or paleontologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.<br>If the qualified professional determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.<br>If a potentially-eligible resource is encountered, then the qualified professional archaeologist and/or paleontologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met. | | | |
| ***Greenhouse Gas Emissions*** | | | | |
| GHG-1 | In order to meet the 2022 Scoping Plan GHG requirements, consistent with State GHG reduction and equity prioritization goals, each residential unit shall provide electric vehicle charging capabilities as part of the final project designs. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| ***Tribal Cultural Resources*** | | | | |
| TCR-1 | If archaeological or tribal resources or materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.<br><br>If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation. | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | If a potentially-eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met. | | | |
| TCR-2 | If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code and Project shall follow the procedures and protocols set for un CEQA Guidelines Section 15064.4(e)(1). If human remains are identified to be those of Native American, California Health and Safety Code 7050.5 requires the County coroner notify the NAHC within 24 hours of discovery. All reports, correspondence, and determinations regarding the discovery of human remains on the project site shall be submitted to the Lead Agency. | City of Clovis Planning | *Prior to Permits and During Construction* | |

**RESOLUTION 24-__**

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS APPROVING VESTING TENTATIVE TRACT MAP TRACT MAP 6467 FOR A 162-LOT SINGLE-FAMILY SUBDIVISION ON APPROXIMATELY 14.57 ACRES OF PROPERTY LOCATED SOUTH OF E. PERRIN AVENUE, BETWEEN N. MINNEWAWA AND THE N. CLOVIS AVENUE ALIGNMENT**

**WHEREAS,** Bonadelle Homes ("Applicant"), 7030 Fruit Avenue #101, Fresno, CA 93711, has submitted an application for Vesting Tentative Tract Map 6467 ("TM6467") ("Project") for property located south of E. Perrin Avenue, between N. Minnewawa and the N. Clovis Avenue Alignment ("Property"); and

**WHEREAS,** the Planning Commission considered TM6467 on November 21, 2024 recommending approval of said map; and

**WHEREAS,** the Planning Commission's recommendations were forwarded to the City Council for consideration; and

**WHEREAS,** the City of Clovis published notice of the public hearing in the Fresno Business Journal on December 2, 2024 mailed public notices to property owners within 950 feet of the Property, twenty-one (21) days prior to said Planning Commission hearing, and otherwise posted notice of the Public Hearing in accordance with applicable law; and

**WHEREAS,** the proposed TM6467 was presented to the City Council for approval in accordance with the Subdivision Map Act and Chapter 102 of Title 9 of the Clovis Municipal Code (Development Code); and

**WHEREAS,** a duly noticed hearing was held on December 16, 2024, at which time the City Council considered TM6467; and

**WHEREAS,** the City Council has given careful consideration to this map on December 16, 2024, and considered the CEQA analysis outlined in the staff report and elsewhere in the Administrative Record which determines that said map meets the requirements pursuant to CEQA Guidelines and does adopt the mitigated negative declaration and the mitigation monitoring program for the Project; and

**WHEREAS**, the City Council has had an opportunity to review and consider the entire Administrative Record relating to TM6467, which is on file with the City of Clovis Department of Planning and Development Services, and reviewed and considered those portions of the Administrative Record determined to be necessary to make an informed decision, including, but not limited to, the staff report, the written materials submitted with the request, and the verbal and written testimony and other evidence presented during the public hearing, and the conditions of approval attached as **Attachment 3A** to this Resolution, which are incorporated herein by this reference ("Administrative Record").

**NOW, THEREFORE, BASED UPON THE ENTIRE RECORD OF THE PROCEEDINGS, THE CITY COUNCIL RESOLVES AND FINDS AS FOLLOWS:**

1. The City Council hereby approves TM6467 as shown in **Attachment A,** subject to the conditions of approval set forth in **Attachment B** to this Resolution.

2. TM6467 satisfies the required findings for approval of a Vesting Tentative Tract Map, as follows:

    a. The proposed map, subdivision design, and improvements are consistent with the General Plan and any applicable specific plan.

    b. The Project site is physically suitable for the type and proposed density of development.

    c. The design of the subdivision and the proposed improvements are not likely to cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat.

    d. The design of the subdivision or type of improvements is not likely to cause serious public health or safety problems.

    e. The design of the subdivision or the type of improvements will not conflict with easements acquired by the public at large for access through or use of property within the proposed subdivision.

    f. The discharge of sewage from the proposed subdivision into the community sewer system will not result in violation of existing requirements prescribed by the California Regional Water Quality Control Board.

    g. The design of the subdivision provides, to the extent feasible, passive or natural heating and cooling opportunities.

    h. The proposed subdivision, its design, density, and type of development and improvements conform to the regulations of the Development Code and the regulations of any public agency having jurisdiction by law.

3. Without the conditions of approval (**Attachment B** of this resolution), the City Council could not make the findings necessary for approval of TM6467 (attached and labeled **Attachment A**).

4. The basis for the findings is detailed in the December 16, 2024, staff report, which is hereby incorporated by reference, the entire Administrative Record, as well as the evidence and comments presented during the public hearing.

* * * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED: December 16, 2024

_____ _____

Mayor City Clerk

**Attachment A**
**Conditions of Approval – TM6467**
**Planning Division Comments**
(Marissa Jensen, Assistant Planner – 559-324-2338)

1. The developer shall comply with all mitigation measures identified in the Mitigation Monitoring and Reporting Program prepared for the Project, included as **Attachment 1A** to the staff report.

2. TM6467 is approved per **Attachment 2B**.

3. This Project is subject to the development standards of the Heritage Grove Master Plan.

4. The proposed project shall produce a comprehensive development of superior quality than which might otherwise occur from more traditional development on the site which will be reviewed and approved through the civil plan review process and residential site plan review (RSPR).

5. The developer shall obtain City approval in advance of temporary and permanent subdivision signs through separate sign review, consistent with the development criteria of the Development Code Sign Ordinance.

6. No more than two of the same unit type (floor layout and exterior materials package) shall be repeated side by side. When two of the same units are repeated side by side, they shall be different colors. These identical provisions may be waived by the City Planner on a specific lot basis within the project when the size or configuration of a lot would otherwise prevent compliance with the above requirements of any other siting or setback/yard requirements established under this application. If such a waiver is requested, the developer and City Planner shall work together to ensure that any sitings of units not in compliance with the above requirements shall be of different materials and elevations in order to minimize any adverse visual impacts that may result.

7. TM6467 is subject to the development standards of Planned Development Permit (PDP) 2024-003 and any amendments thereafter**.** Any development standards not expressed within PDP2024-003 and TM6467 shall be subject to the underlying Zone District R-1-PRD Standards and Guidelines, and the Development Code.

8. A RSPR is required to memorialize building plans and elevations for the different product types of TM6467. Specific color and materials of the models, walls, amenities, landscaping, and fencing will be evaluated through the civil plans.

9. Setbacks shall be measured to the exterior face of the framing of the structure. Exceptions to the setbacks are identified in §9.24.100, of the Development Code.

10. Development standards for the lots of TM6467 shall be as follows:

| Standards | Harvest Product (162 lots) |
|---|---|
| Minimum Lot Size (Square Feet) | 2,220 |
| Minimum Parcel Width | 37 feet |
| Minimum Curved Parcel Width | 60 feet |
| Minimum Corner Parcel Width | 37 feet |
| Minimum Parcel Depth | 60 feet |
| Maximum Lot Coverage | 65 % |
| Maximum Height | 35 feet / 2 Stories |
| Front (Garage) Setback | 5 feet |
| Front (Living) Setback | 5 feet |
| Setback to Projections and/or Porch/ Patio | 4 feet |
| Garage Side Setback | 5 feet |
| Corner Street Side Setbacks | 3 feet |
| Reversed Corner Street Side Setback | 3 feet |
| Corner Street Side Fence Setback | 3 feet |
| Interior Side Yard Setback (opposite from garage) | 3 feet |
| Rear Setback | 5 feet |
| Garages | 20'x20' interior dimension (2-car)<br><br>12'x20' interior dimension (1-car) |

11. E. Perrin Avenue is designated as a Neighborhood Boulevard and shall have a 20-foot landscape/pedestrian setback, with a 10-foot landscape, 6-foot walk, and 4-foot landscape buffer setback.

12. N. Minnewawa Avenue is designated as a Thematic Street and shall have an 18-foot parkway, with a 9-foot landscape buffer adjacent to the right-of-way, 5-foot walk, and 4-foot landscape buffer setback.

13. N. Clovis Avenue is designated as a Community Boulevard and shall have an 20-foot parkway, with a 10-foot landscape buffer adjacent to the right-of-way, 6-foot walk, and 4-foot landscape buffer setback.

14. The developer shall construct a minimum six-foot high solid split face masonry wall along the Perrin, Clovis, and Minnewawa Avenue frontages of TM6467.

15. The developer shall utilize streetlights along local and private streets within the development area that are of the same design and luminosity as surrounding developments within Heritage Grove.

16. All lighting shall be screened from direct view from the public right-of-way and adjacent residential properties.

17. All landscaping (open space and private yards) shall conform to the City of Clovis Water Efficient Landscape Ordinance.

18. Landscape plans shall be reviewed and approved separately by the landscape review committee with the civil set for tree and landscape type and location.

19. All lots shall provide an all-weather surface and path for the placement and storage of trash toters. The paved path shall lead from the street to the fenced noncovered patio areas within the 5-foot side yard to the street.

20. Landscape features and forms within amenity areas shall be consistent with Heritage Grove Design Guidelines. Details shall be provided in the construction plan.

21. The applicant must provide two (2) pocket parks totaling ±21,997 square feet inclusive of recreation centers with fitness rooms, covered dining areas, restrooms, open space areas, a pickleball court, and a pool as shown in **Attachment 5**.

22. The developer shall design and install the Community Gateway (Community Corner Paseo) at the southwest corner of N. Clovis and E. Perrin Avenues. The Corner Paseo shall be designed to meet the intent outlined in the Heritage Grove Guidelines.

23. As a public amenity for the Project, the developer shall contribute the dollar amount totaling $40,165 to the City for utilization in existing or future open space and/or park improvements.

24. The developer shall record a Covenant regarding a “right to farm,” for adjacent property owners. Such agreement shall be disclosed to all future home buyers.

25. The applicant shall record a Notice of Nonconformance dealing with any structure used for model homes where the garage is converted for the use as a sales office.

26. Upon final recordation of this vesting tentative tract map, it shall be the applicant’s responsibility to furnish to the Planning Department an electronic (PDF) copy of the original map obtained from the Fresno County Recorder’s Office.

27. The applicant shall relay all conditions of approval for TM6467 to all subsequent purchasers of individual lots, if applicable, and/or to subsequent purchasers of this entire tract map development.

## Fire Department Conditions

(Rick Fultz, Fire Department Representative – 559-324-2224)

**FIRE DEPARTMENT ACCESS**

28. All Weather Access &Water Supply: The applicant shall provide all weather access to the site during all phases of construction to the satisfaction of the approved Clovis Fire Department Standard #1.2 or #1.3.

29. Street Width: Fire apparatus access width shall be determined by measuring from “base of curb” to “base of curb” for roadways that have curbs. When roadways do not have curbs, the measurements shall be from the edge of the roadway surface (approved all weather surface).

30. Street Width for Single Family Residences: Minimum Access Road Width of 36 feet for Single Family Residences. Roads 36 feet or wider allow for Parking on both sides of street.

31. Turning Radius: All access way roads constructed shall be designed with a minimum outside turning radius of forty-five feet (45’)

32. Electric Operated Gates: The electric gate access feature shall require the following:

    a. A lock box with a Best padlock (see the specifications on the next page).
    b. The entrance and exit gates shall default to an open position and remain open in the event of power failure at residential developments. At all other properties, the gate shall be openable manually in the event of a power failure.
    c. A manual gate release shall be provided and accessible for emergency use.
    d. All vehicle gates for developments containing dwellings or as required by the Fire Chief shall be equipped with an approved “Class II” modulated light detection system capable of receiving a modulated frequency of 14.035 Hz. plus or minus 0.250 Hz. The detection system shall be installed according to the manufacturer’s specifications. The light detection shall be installed to operate from any angle of approach by Clovis Fire Department Emergency Vehicles. Multiple light detection sensors may be required to be installed to allow access from different angles of approach. All light sensors are required to be tested by Clovis Fire Department Emergency Vehicles for approval.
    e. All entrance and exit gates, when made active, shall move from completely closed to fully open, taking no more than 15 seconds. Once the gate is activated via the detection system or lock box, the gate shall remain open for 10 seconds minimum. Both entrance and exit shall open at the same time when the detection system or the lock box is activated.
    f. All electrical devices shall be UL listed.

g. All exit gates shall open when a vehicle is prepared to exit the area without the use of a key, card or special knowledge.
h. Developments containing dwellings shall also provide a pedestrian gate in the area of the main gate that can be opened from the inside without a key or special knowledge. Other pedestrian gates may be required.
i. Fire Department approval must be given prior to putting the gate into operation. Approval is granted only after passing a final inspection by the fire department. Please call 324-2200 to schedule the inspection.

**FIRE HYDRANTS**

33. Residential Fire Hydrant: The applicant shall install _10__4 ½" x 2 ½" approved Residential Type fire hydrant(s) and "Blue Dot" hydrant locators, paint fire hydrant(s) yellow with blue top and caps, and paint the curb red as specified by the adopted Clovis Fire Department Standard #1.4. See plans for locations of fire hydrants. Plans shall be submitted to the Clovis Fire Department for review and approval prior to installation. The hydrant(s) shall be charged and in operation prior to any framing or combustible material being brought onto the site. Hydrants curb markings and blue dots to be completed prior to occupancy of any homes.

**Engineering / Utilities / Solid Waste Division Conditions**

(Sean Smith, Engineering Division Representative – 559-324-2363)
(Paul Armendariz, Department Representative – 559-324-2649)

**Maps and Plans**

34. The conditions of this tract map are written under the assumption that all dedications and improvements have been completed by the adjacent TM 6375 development, and that these dedications and improvements have been accepted by the City. Additional conditions shall be required at the discretion of the City Engineer, if the improvements and dedications by TM 6375 have not been accepted by the City.

35. The applicant shall have a final tract map prepared, in the form prescribed by the Subdivision Map Act and City of Clovis Municipal Code. The final tract map shall be submitted to the City of Clovis Engineering Division, and should include, but not be limited to, final tract map, the current filing fee, closure calculations, current preliminary title report, legal descriptions and drawings of required dedications.

36. The applicant shall submit separately to the City of Clovis Engineering Division, a set of construction plans on 24" x 36" sheets with City standard title block for all required improvements and a current preliminary title report. These plans shall be prepared by a registered civil engineer, and shall include a grading plan, landscape plan, a site plan showing trash enclosure locations and an overall site utility plan showing locations and sizes of sewer, water, storm drain, and irrigation mains, laterals, manholes, meters, valves, hydrants, fire sprinkler services, other facilities, etc. Plan check and inspection fees per City of Clovis Resolution No. 23-34 shall be paid with the first submittal of said plans. All plans shall be submitted at or before the time the

building plans are submitted to the Building Division and shall be approved by the City and all other involved agencies prior to the release of any development permits.

37. Prior to the initial submittal of the improvement plans, the applicant shall contact Sean Smith at (559) 324-2363 to setup a coordination meeting (Pre-submittal Meeting).

38. Upon approval of improvement plans, the applicant shall provide the City with the appropriate number of copies. After all improvements have been constructed and accepted by the City, the applicant shall submit to the City of Clovis Engineering Division (1) digital copy to the City in PDF format of the approved set of construction plans revised to accurately reflect all field conditions and revisions and marked "AS-BUILT" for review and approval. Upon approval of the AS-BUILTs by the City, and prior to granting of final occupancy or final acceptance, the applicant shall provide to the City (1) digital copy in PDF format and two (2) bond copies.

39. The applicant shall comply with reporting requirements in accordance with Government Code 65940.1, which requires the City to, “request from a development proponent, upon issuance of a certificate of occupancy or the final inspection, whichever occurs last, the total amount of fees and exactions associated with the project for which the certificate was issued. The City shall post this information on its internet website, and update it at least twice per year.”

**General Provisions**

40. The applicant shall pay all applicable development fees at the rate in effect at the time of payment and prior to final map approval by Council or have the fees payable directly to the City through a separate escrow account at the time of recordation of the map.

41. The applicant is advised that, pursuant to California Government Code, Section 66020, any party may protest the imposition of fees, dedications, reservations, or other exactions imposed on a development project by a local agency. Protests shall be filed in accordance with the provisions of the California Government Code and shall be filed within 90 days after conditional approval of this application is granted. The 90 day protest period for this project shall begin on the “date of approval” as indicated on the “Acknowledgment of Acceptance of Conditions” form.

42. All reimbursement requests shall be prepared and submitted in accordance with the requirements of the current version of the “Developer Reimbursement Procedures” a copy of which may be obtained at the City Engineer’s Office.

43. The applicant shall install all improvements within public right-of-way and easements in accordance with the City of Clovis standards, specifications, master plans, and record drawings in effect at the time of improvement plan approval.

44. The applicant shall address all conditions and be responsible for obtaining encroachment permits from the City of Clovis for all work performed within the City's right-of-way and easements.

45. The applicant shall submit a soils report or a waiver of soils report to the City of Clovis Engineering Division for approval by the City Engineer.

46. The applicant shall provide and pay for all geotechnical services per City policy.

47. The applicant shall comply with the requirements of the local utility, telephone, and cable companies. It shall be the responsibility of the applicant to notify the local utility, telephone, and cable companies for the removal or relocation of utility poles where necessary. The City shall not accept first submittals without proof that the applicant has provided the improvement plans and documents showing all proposed work to the utility, telephone, and cable companies. All utility vaults in which lids cannot be sloped to match proposed finished grading, local utilities have 5% max slope, shall be located in sidewalk areas with pedestrian lids so the lid slope matches sidewalk cross slope.

48. All existing overhead and new utility facilities located on-site, within alleys, or within the street right-of-way along the streets adjacent to this tract shall be undergrounded unless otherwise approved by the City Engineer.

49. The applicant shall contact and address all requirements of the United States Postal Service Clovis Office for the location and type of mailboxes to be installed. The location of the facilities shall be approved by the City Engineer prior to approval of improvement plans or any construction.

50. The applicant shall contact and address Caltrans requirements, and be responsible for obtaining encroachment permits from Caltrans for all work performed within the State right-of-way. The applicant shall be required to mitigate impacts to State Highway facilities as determined by the City Engineer.

**Dedications and Street Improvements**

51. The applicant shall provide right-of-way acquisition or dedicate free and clear of all encumbrances and/or improve the following streets to City standards. The street improvements shall be in accordance with the City's specific plans and shall match existing improvements. The applicant's engineer shall be responsible for verifying the type, location, and grades of existing improvements.

52. North Minnewawa Avenue – Along frontage dedicate to provide right-of-way acquisition for 42.5' (exist varies) east of centerline and 24.5' (existing 20') west of centerline, and improve with curb, gutter, sidewalk, curb return ramps, street lights, fiber optic conduit, landscape strip, 43' (20.5' west + 22.5' east) permanent paving, permanent paving and overlay as necessary to match the existing permanent pavement, 3' paved swale, and transitional paving as needed.

53. Perrin Avenue – Along frontage dedicate to provide right-of-way acquisition for 44.5' (exist 0') south of centerline and 24.5’ (existing 0’) of right-of-way north of centerline, and improve with curb, gutter, sidewalk, drive approaches, curb return ramps, street lights, fiber optic conduit, landscape strip, 43' (22.5’ south +20.5’ north) permanent paving, permanent paving and overlay as necessary to match the existing permanent pavement, 3' paved swale, and transitional paving as needed.

54. North Clovis Avenue – dedicate to provide right-of-way acquisition for 58’ (exist 0’) west of centerline and 48’ (exist 0’) east of centerline, and improve with curb, gutter, sidewalk, drive approaches, curb return ramps, street lights, fiber optic conduit, median island, median island landscaping and irrigation, landscape strip, 56' (28’ west + 28 east’) permanent paving, permanent paving and overlay as necessary to match the existing permanent pavement, 3' paved swale, and transitional paving as needed.

55. Community Corner Paseo – Dedicate to provide for and improve a community corner paseo at the southwest corner of North Clovis Avenue and Perrin Avenue.

56. Gated Developments – Provide ample vehicle stacking area outside the travel lanes of North Minnewawa and Perrin Avenues that will allow vehicles to wait as vehicles are accessing the control panel to open the security gates. Design a turn-a-round to allow vehicles that cannot enter the complex to return to the street without backing the vehicle up. Provide the Solid Waste Division with remote controls that will allow access for all solid waste and recycling vehicles.

57. Interior Streets – Dedicate to provide for 50’ or 54’ of right-of-way in conformance with the City policy on street widths, and improve with curb, gutter, 5’ sidewalk adjacent to the curb, drive approaches, curb return ramps, streetlights, permanent paving, and all transitional paving as needed.

58. Interior streets shall be private. For two-way traffic with no parking on both sides, the minimum travel width shall be 25’ with a clear width of 30’. For two-way traffic with parking on one side, the minimum travel width shall be 32’. For two-way traffic with parking on both sides, the minimum travel width shall be 36’.

59. Applicant shall provide for future circulation and access to the parcel east of the project and west of North Clovis Avenue.

60. Entry feature streets with median islands shall have a minimum of 22’ wide travel lanes in each direction with parking or without parking.

61. All Major Streets – Provide right-of-way acquisition sufficient to provide for the relocation of all remaining utility poles a minimum of 8' from the traveled lane.

62. Applicant shall design a traffic signal at North Clovis and Perrin Avenues, provide the necessary right-of-way for the signal in its ultimate location, and install the facilities along the project frontages.

63. The applicant shall relinquish all access to North Minnewawa, North Clovis, and Perrin Avenues.

64. The applicant shall provide a dedication for a 10' public utility easement, where applicable, along all public frontages. The applicant shall be responsible for obtaining approval by the utilities companies where alternate widths are provided. The applicant shall provide to the City copies of all final easements prior to final map acceptance.

65. For new onsite ADA paths of travel that connect to the City sidewalk, the applicant shall replace enough sidewalk to provide a compliant landing with appropriate transitions to existing sidewalk grades.

66. The applicant shall remove and repair all damaged or broken concrete improvements. The City Engineer may require the repair of additional improvements if they are damaged prior to occupancy.

67. The applicant shall not install any fences, temporary or permanent in public right-of-way.

68. The applicant's engineer of record shall provide traffic geometric studies to determine exact limits of dedication(s) on North Minnewawa, North Clovis, and Perrin Avenues, and lengths and configuration of left turn, right turn pockets and bus bays. Additional dedication and improvements may be required depending on the traffic study.

69. The applicant shall provide preliminary title report, legal description and drawings for all dedications required which are not on the site. All contact with owners, appraisers, etc. of the adjacent properties where dedication is needed shall be made only by the City. The City will prepare an estimate of acquisition costs including but not limited to appraised value, appraisal costs, negotiation costs, and administrative costs. The applicant shall pay such estimated costs as soon as they are determined by the City.

70. The sideyard side of all corner lots shall have full width sidewalk except where planter strips or meandering sidewalk is proposed.

71. The applicant shall obtain "R Value" tests in quantity sufficient to represent all street areas, and have street structural sections designed by a registered civil engineer based on these "R Value" tests.

72. The applicant shall, at the ends of any permanent pavement abutting undeveloped property, install 2" x 6" redwood header boards that shall be placed prior to the street surfacing.

73. Standard barricades with reflectors shall be installed at ends of streets abutting undeveloped property and any other locations to be specified by the City Engineer.

74. The applicant shall provide to the City for recording a reciprocal access agreement to maintain and provide vehicular, pedestrian and public access, prior to obtaining building permits.

**Sewer**

75. The applicant shall identify and abandon all septic systems to City standards.

76. The applicant shall install sanitary sewer mains of the size and in the locations indicated below, prior to occupancy. The sewer improvements shall be in accordance with the City's master plans and shall match existing improvements. The applicant's engineer shall be responsible for verifying the size, location, and elevations of existing improvements. Any alternative routing of the mains shall require approval of the City Engineer and shall be supported by appropriate calculations. The improvements indicated below will provide temporary service until the improvements are installed that provide permanent service.
    a. North Minnewawa Avenue – install 12" main along frontage to Perrin Avenue.
    b. North Clovis Avenue – install 10" main along frontage.
    c. Perrin Avenue – install 10" main between North Clovis and North Minnewawa Avenues.
    d. Interior Private Streets – install 8" mains.

77. Applicant shall provide sewer service to the parcel east of the project and west of North Clovis Avenue.

78. The applicant shall install one (1) 4" sewer service house branch to each lot within the tentative tract.

79. All existing sewer services that will not be used with this development shall be abandoned by cutting and capping the service at the right-of-way line.

80. The applicant shall notify all property owners annexed to the City and along streets where a new sewer main will be constructed to determine if they wish to be connected to City sewer. Property owners shall work directly with the applicant regarding costs and location. The applicant shall notify property owners that sewer connection fees are required if they choose to connect.

81. The City cannot guarantee at this time that sewer capacity will be available for this development when site construction occurs. The applicant, therefore, waives any claim or demand against the City for any delay in availability of sewer capacity for this subdivision.

82. Applicant acknowledges that sewage collection and treatment capacity for the area within which the proposed subdivision is located is extremely limited, and that capacity may not be available to provide service for the proposed subdivision at such time as applicant is ready to seek approval of a final. Applicant acknowledges, understands, and agrees that if such sewage collection and treatment capacity is not available to serve the proposed subdivision, as determined in the sole and absolute discretion of the City of Clovis, the final map may not be approved. Notwithstanding the foregoing, applicant has freely and voluntarily chosen to proceed with the submittal and processing of the tentative map, intends to expend money, time and effort in connection therewith, and accepts the risks that the final map approval may be delayed until sufficient capacity is available as determined in the sole and absolute discretion of the City of Clovis. Applicant agrees to hold harmless and indemnify the City of Clovis from any and all claims, costs, expenses, and damages incurred or suffered by applicant, its principals, officers, employees, agents, or contractors, caused by, in connection with, or arising out of the unavailability of sewage collection or treatment capacity to serve the proposed subdivision, or the City's refusal or failure to approve a final map for the proposed subdivision because of the unavailability of sewage collection or treatment.

83. Permanent service to the Project requires the improvements indicated below in accordance with the Sewer Master Plan. The City Engineer shall determine the timing of the improvements in the event they are installed by a City CIP project or development.
    a. CIP Project 6-B (DeWolf Trunk Sewer System).
    b. CIP Project 6-A (Shepherd / Willow Pump Station and Force Main System).
    c. CIP Project AA (Phase 2 STWRF Expansion).

**Water**

84. The applicant shall identify and abandon all water wells to City standards.

85. The applicant shall install water mains of the sizes and in the locations indicated below, and provide an adequately looped water system prior to occupancy. The water improvements shall be in accordance with the City's master plans and shall match existing improvements. The applicant's engineer shall be responsible for verifying the size, location, and elevations of existing improvements. Any alternative routing of the mains shall require approval of the City Engineer and shall be supported by appropriate calculations. The improvements indicated below will provide temporary service until the improvements are installed that provide permanent service.
    a. North Minnewawa Avenue – install 12" main along frontage to Perrin Avenue.
    b. North Clovis Avenue – install 12" main along frontage.
    c. Perrin Avenue – install 12" main between North Minnewawa & North Clovis Avenues.
    d. Interior Private Streets – install 8" mains.

e. Applicant shall provide water service to the parcel east of the project and west of North Clovis Avenue.

86. Install facilities to provide separation between Pressure Zone 2 east of North Minnewawa Avenue and Pressure Zone 1 west of North Minnewawa Avenue.

87. The applicant shall install a City standard water service to each lot of the proposed subdivision. Water services shall be grouped at property lines to accommodate automatic meter reading system, including installation of connecting conduit. The water meter shall be placed in the sidewalk and not in planters or driveways.

88. All existing water services that will not be used with this development shall be abandoned by closing the service's corporation stop and creating a physical separation between the corporation stop and the service.

89. The applicant shall notify all property owners' annexed to the City and along streets where a new water main will be constructed to determine if they wish to be connected to City water. Property owners shall work directly with the applicant regarding costs and location. The applicant shall notify property owners that water connection fees are required if they choose to connect.

90. Prior to recording a final map of any phase, the applicant shall demonstrate to the satisfaction of the City Fire Chief and City Engineer that there is adequate water pressure to serve the units to be constructed. The applicant shall work with the City Engineer to determine the adequacy of water supply/pressure for the proposed development.

91. Applicant acknowledges that water distribution and treatment capacity for the area within which the proposed subdivision is located is extremely limited, and that distribution may not be available to provide service for the proposed subdivision at such time as applicant is ready to seek approval of a final map. Applicant acknowledges, understands, and agrees that if such water distribution and treatment capacity is not available to serve the proposed subdivision, as determined in the sole and absolute discretion of the City of Clovis, the final map may not be approved. Notwithstanding the foregoing, applicant has freely and voluntarily chosen to proceed with the submittal and processing of the tentative map, intends to expend money, time and effort in connection therewith, and accepts the risks that the final map approval may be delayed until sufficient distribution is available as determined in the sole and absolute discretion of the City of Clovis. Applicant agrees to hold harmless and indemnify the City of Clovis from any and all claims, costs, expenses, and damages incurred or suffered by applicant, its principals, officers, employees, agents, or contractors, caused by, in connection with, or arising out of the unavailability of water distribution or treatment capacity to serve the proposed subdivision, or the City's refusal or failure to approve a final map for the proposed subdivision because of the unavailability of water distribution or treatment capacity.

92. The Project requires the improvements indicated below in accordance with the Water Master Plan. The City Engineer shall determine the timing of the improvements in the event they are installed by a City CIP project or development.
    a. P-3 (16" Water Main)
    b. P-4 (12" Water Main)
    c. P-35 (12" Water Main)
    d. T-6 (3.5 MG Tank)
    e. T-9 (7 MG Tank)

**Recycled Water**

93. The applicant shall install recycled water mains of the sizes and in the locations indicated below. The recycled water improvements shall be in accordance with the City's master plans and shall match existing improvements. All areas utilizing recycle water for irrigation shall be clearly marked on the improvement plans. The applicant's engineer shall be responsible for verifying the size, location, and elevations of existing improvements. Any alternative routing of the mains shall require approval of the City Engineer and may require appropriate calculations.
    a. North Minnewawa Avenue – install 8" main along the property frontage to Perrin Avenue.
    b. North Clovis Avenue – install 16" main along the property frontage.
    c. Perrin Avenue – install 10" recycled water main from North Minnewawa Avenue to North Clovis Avenue.
    d. Paseos, Trails, and Neighborhood Parks – install mains as necessary to serve the paseos, trails, and the neighborhood parks.

**Grading and Drainage**

94. The applicant shall contact the Fresno Metropolitan Flood Control District (FMFCD) and address all requirements, pay all applicable fees required, obtain any required NPDES permit, and implement Best Available Technology Economically Achievable and Best Conventional Pollutant Control Technology to reduce or eliminate storm water pollution. Plans for these requirements shall be included in the previously required set of construction plans, and shall be submitted to and approved by FMFCD prior to the release of any development permits.

95. In the event permanent storm drainage facilities are not available, the applicant shall provide temporary on-site retention basins for storm water disposal and provide a cash deposit for each basin to offset the City's cost of maintaining the basins. The size and design shall be in accordance with the requirements of the City Engineer and may change based on design calculations and access requirements for maintenance. The temporary pond maintenance deposit shall be based on size, depth, expected maintenance schedule, etc. However, the property owner shall be responsible for periodic cleaning of toxic material. The temporary basin is solely for the convenience of the subdivision.

96. The owner of the property on which the temporary basin(s) are located shall backfilled said basin(s) within ninety (90) days after notice is given by the City that the basin(s) are no longer needed. In the event the owner fails to backfill said basin(s) within said 90 days, the City may cause the basin to be backfilled. A lien to cover the cost of the work will be placed on the property, including the costs to prepare and enforce the lien. A covenant shall be prepared and recorded on the lot on which the basin(s) is/are located.

97. Grade differentials between lots and adjacent properties shall be adequately shown on the grading plan and shall be treated in a manner in conformance with City of Clovis Standard Drawing No. M-4 as modified by the City Council. Any retaining walls required on-site or in public right of way shall be masonry construction. All retaining walls shall be designed by a registered civil engineer.

**Irrigation and Landscaping Facilities**

98. The applicant, as a portion of the required tract improvements, shall provide landscaping and irrigation as required herein. The landscaping and irrigation shall be installed in public right-of-way and the area reserved for landscaping. The irrigation and landscape improvements shall be in accordance with the City's master plans and shall match existing improvements. The applicant's engineer shall be responsible for verifying the size, location, and elevations of existing improvements. Plans for the required landscaping and irrigation systems shall be prepared by an appropriately registered professional at the applicant's expense and shall be approved by the City of Clovis Planning and Development Services Department and Public Utilities Department prior to the beginning of construction or the recording of the final tract map, whichever occurs first. Landscape and irrigation facilities that the City Landscape Maintenance District shall maintain: the, entry features, landscape strips along North Minnewawa, North Clovis, and Perrin Avenues, and the median islands in Clovis Avenue. The landscape strip around the planned unit development may be maintained by a perpetual maintenance covenant.

99. The owner shall request annexation to and provide a covenant for the Landscape Maintenance District. The property owner acknowledges and agrees that such request serves as a petition pursuant to California State Proposition 218 and no further election shall be required for the establishment of the initial assessment. The assessment for each lot shall be obtained from the City for the tax year following the recordation of the final map. The estimated annual assessment per average sized lot is $540.26, which is subject to change prior to issuance of building permit or final tract map approval and is subject to an annual change in the range of the assessment in the amount of the Consumer Price Index, U.S. City Average, All Urban Consumers (CPI Index), plus two percent (2%). The additional landscaping enhancements that exceed the City norms and are specific benefit to the property, such as the entry feature, columns, monuments, interior median islands, round-a-bouts, special street lights, etc, if determined to be maintained by the Landscape Maintenance District, shall be maintained by an additional landscape maintenance assessment. The

applicant shall provide construction costs and deposit with the City an amount equal to 50% of the value of the enhanced landscaping hardscape features, or an alternate amount approved by the City Engineer, such as columns, monuments, and special street lights, that exceeds the City norms. The applicant shall provide the City with an estimate of the annual maintenance for the special lighting and landscaping enhancements that exceeds the City norms. The owner/developer shall notify all potential lot buyers before they actually purchase a lot that this tract is a part of a Landscape Maintenance District and shall inform potential buyers of the assessment amount. Said notification shall be in a manner approved by the City. The owner/developer shall supply all pertinent materials for the Landscape Maintenance District.

100. The applicant shall comply with the City of Clovis Water Efficient Landscape Requirements Ordinance.

101. The applicant shall contact and address all requirements of the Fresno Irrigation District (FID). This may include dedicating easements, piping or relocating any existing FID canals and ditches, replacing any existing irrigation piping, concrete lining or improving any existing canals, construction or reconstruction of any canals, culverts, and bridge crossings. Plans for these requirements and improvements shall be included as in the previously required set of construction plans, and shall be submitted to and approved by FID prior to the release of any development permits or recording of the final tract map. If a FID or private irrigation line is to be abandoned, the applicant shall provide waivers from all downstream users.

102. The applicant shall indicate on construction drawings the depth, location and type of material of any existing Fresno Irrigation District's irrigation line along the proposed or existing street rights-of-way or onsite. Any existing canals shall be piped. The material of the existing pipe shall be upgraded to the proper class of rubber gasket pipe at all locations unless otherwise approved by the City Engineer.

103. The applicant shall apply to the Fresno Irrigation District (FID) for transfer of irrigation water rights to the City of Clovis, if the property has not already been removed from FID and transferred to the City. The applicant shall execute a “Request for Change of Relative Value” that can be obtained and processed through FID. The applicant shall provide a copy of the completed form to the City.

104. All existing agricultural irrigation systems either on-site or in public right of way, whether FID or privately owned, shall be identified prior to any construction activity on the site. Service to all downstream users of irrigation water shall be maintained at all times through preservation of existing facilities or, if the existing facilities are required to be relocated, the relocation and replacement of the existing facilities. It is the intent that downstream users not bear any burden as a result of development of the site. Therefore, the applicant shall pay all costs related to modification, relocation, or repair of any existing irrigation facilities resulting from or necessitated by the development of the site. The applicant shall identify on site plans and construction

plans, all existing irrigation systems and their disposition (abandonment, repair, relocation, and/or piping). The applicant shall consult with the Fresno Irrigation District for any additional requirements for lines to be abandoned, relocated, or piped. The applicant shall provide waivers from all users in order to abandon or modify any irrigation pipelines or for any service interruptions resulting from development activities.

105. The applicant shall provide a landscape and irrigation perpetual maintenance covenant recorded for landscaping installed in the public right-of-way behind the curb including easements that will not be maintained by the Clovis Landscape Maintenance District. A recordable covenant shall be submitted to and approved by the City of Clovis City Engineer prior to final map approval.

106. The applicant shall provide a perimeter wall perpetual maintenance covenant on all properties that have a perimeter wall that is installed on private property. A recordable covenant shall be submitted to and approved by the City of Clovis City Engineer prior to final map approval.

**Miscellaneous**

107. The applicant shall install street lights. Street lights along the major streets shall be installed on metal poles to local utility provider's standards at the locations designated by the City Engineer. Street light locations shall be shown on the utility plans submitted with the final map for approval. Street lights at future traffic signal locations shall be installed on approved traffic signal poles, including all conduits and pull boxes. Street lights along the major streets shall be owned and maintained by local utility providers. Proof of local utility provider's approval shall be provided. The applicant may install thematic lighting, as approved by the City Engineer. If the applicant chooses to install thematic lighting, the applicant shall provide a conceptual lighting plan identifying adjacent properties that may be incorporated with thematic lights to create a neighborhood effect. Thematic lighting owned by the City shall be maintained by an additional landscape maintenance assessment.

108. The applicant shall provide a Solid Waste Receptacle Locations covenant for Lots 4, 5, 20, 21, 34, 35, 56, 57, 70 – 74, 110, and 111, and any other lot located where solid waste receptacles cannot be properly serviced as determined by the Solid Waste manager. A recordable covenant shall be submitted to and approved by the City of Clovis City Engineer prior to final map approval.

109. The applicant shall install all major street monumentation and section corner monumentation within the limits of the project work in accordance with City Standard ST-32 prior to final acceptance of the project. Monumentation shall include all section corners, all street centerline intersection points, angle points and beginning and end of curves (E.C.'s & B.C.'s). The applicant/contractor shall furnish brass caps. Any existing section corner or property corner monuments damaged by this development shall be reset to the satisfaction of the City Engineer. A licensed land surveyor or civil

engineer licensed to perform land surveying shall certify the placement of all required monumentation prior to final acceptance. Brass caps required for installation of new monuments or replacement of existing monuments shall be provided by the contractor/the applicant and approved by City prior to installation. Within five days after the final setting of all monuments has been completed, the engineer or surveyor shall give written notice to the City Engineer that the final monuments have been set. Upon payment to the engineer or surveyor for setting the final monuments, the applicant shall present to the City Engineer evidence of the payment and receipt thereof by the engineer or surveyor.

110. A deferment, modification, or waiver of any engineering conditions shall require the express written approval of the City Engineer.

111. The conditions given herein are for the entire development. Additional requirements for individual phases may be necessary pending review by the City Engineer.

**Fresno Metropolitan Flood Control District (FMFCD) Comments**
(Amjad M. Qader, FMFCD Representative – 559-456-3292)

112. The applicant shall refer to the attached FMFCD correspondence. If the list is not attached, please contact the FMFCD for the requirements.

**Fresno Irrigation District (FID) Comments**
(Jeremy Landrith, Department Representative – 559-233-7161 ext. 7407)

113. The applicant shall refer to the attached FID correspondence. If the list is not attached, please contact the FID for the list of requirements.

**County of Fresno Health Department Comments**
(Kevin Tsuda, County of Fresno Health Department Representative – 559-600-3271)

114. The applicant shall refer to the attached Fresno County Health Department correspondence. If the list is not attached, please contact the Health Department for the list of requirements.

**California Department of Transportation**
(Christopher Xiong, Caltrans Representative – 559-908-7064)

115. The applicant shall refer to the attached Caltrans correspondence. If the list is not attached, please contact the Caltrans for the list of requirements.

**County of Fresno Dept. of Public Works and Planning**
(David Randall, Department Representative – 559-600-4052)

116. The applicant shall refer to the attached County of Fresno correspondence. If the list is not attached, please contact the County of Fresno for the list of requirements.

**San Joaquin Valley Air Pollution Control District (SJVAPCD)**
(Ryan Grossman, District Representative – 559-230-6569)

117. The applicant shall refer to the attached SJVAPCD correspondence. If the list is not attached, please contact the SJVSPCD for the list of requirements.

**Department of Toxic Substances Control**
(Tamara Purvis, District Representative – Tamara.Purvis@dtsc.ca.gov)

118. The applicant shall refer to the attached DTSC correspondence. If the list is not attached, please contact the DTSC for the list of requirements

**Administration Department Conditions**
(John Holt, Department Representative – 324-2060)

119. Prior to approval, recordation or filing of an annexation, final map, or site plan, the property covered by the Project shall be included within or annexed to a Community Facilities District (CFD), established by the City for the provision of public facilities and services, for which proceedings have been consummated, and shall be subject to the special tax approved with the formation or annexation to the CFD. The CFD applies only to residential projects.

## LEGAL DESCRIPTION:

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE UNINCORPORATED AREA OF CLOVIS, COUNTY OF FRESNO, STATE OF CALIFORNIA AND IS DESCRIBED AS FOLLOWS:

PARCEL 1:
THE EAST HALF OF THE NORTH HALF OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 13 SOUTH, RANGE 21 EAST, MOUNT DIABLO BASE AND MERIDIAN, ACCORDING TO THE UNITED STATES GOVERNMENT TOWNSHIP PLATS. EXCEPTING THEREFROM ALL THAT PORTION OF THE WEST HALF OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 12 SOUTH, RANGE 21 EAST, MOUNT DIABLO BASE AND MERIDIAN, ACCORDING TO THE UNITED STATES GOVERNMENT TOWNSHIP PLATS, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF SAID WEST HALF OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 20, SAID POINT BEARING WESTERLY ALONG THE NORTH LINE OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 20, 331.22 FEET FROM THE NORTHEAST CORNER OF SAID NORTHWEST QUARTER OF SOUTHWEST QUARTER; THENCE SOUTHERLY ALONG THE EAST LINE OF SAID WEST HALF OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SOUTHWEST QUARTER OF SAID SECTION 20, 280 FEET TO A 1 INCH IRON PIPE; THENCE WESTERLY PARALLEL TO THE NORTH LINE OF SAID NORTHWEST QUARTER OF SOUTHWEST QUARTER OF SAID SECTION 20, 174.24 FEET TO A 1 INCH IRON PIPE; THENCE NORTHERLY PARALLEL TO THE EAST LINE OF SAID WEST HALF OF NORTHEAST QUARTER OF NORTHWEST QUARTER OF SOUTHWEST QUARTER OF SAID SECTION 20, 280 FEET TO A POINT ON THE NORTH LINE; THENCE EASTERLY ALONG THE NORTH LINE OF SAID WEST HALF OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 20, 174.24 FEET TO THE POINT OF BEGINNING. EXCEPTING THEREFROM ANY PORTION THEREOF LYING WITHIN THE RIGHT OF WAY OF THE ENTERPRISE CANAL AS GRANTED TO E. B. PERRIN BY DEED RECORDED IN BOOK 153, PAGE 140 OF DEEDS.

ALSO EXCEPTING THEREFROM N UNDIVIDED 3/4 INTEREST IN AND TO ALL OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES AND MINERALS OF WHATSOEVER KIND AND NATURE IN, UPON OR BENEATH SAID PROPERTY AS EXCEPTED AND RESERVED IN THE DEED RECORDED JUNE 20, 1941 IN BOOK 1883, PAGE 461 AND IN THE DEED RECORDED OCTOBER 23, 1958 IN BOOK 4127, PAGE 647 OF OFFICIAL RECORDS.

PARCEL 2:
ALL THAT PORTION OF THE WEST HALF OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 12, SOUTH, RANGE 21, EAST, MOUNT DIABLO BASE AND MERIDIAN, ACCORDING TO THE UNITED STATES GOVERNMENT TOWNSHIP PLATS, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF SAID WEST HALF OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 20; SAID POINT BEARING WESTERLY ALONG THE NORTH LINE OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 20, 331.22 FEET FROM THE NORTH EAST CORNER OF SAID NORTHWEST QUARTER OF SOUTHWEST QUARTER; THENCE SOUTHERLY ALONG THE EAST LINE OF SAID WEST HALF OF THE NORTHEAST QUARTER OF NORTHWEST QUARTER OF SOUTHWEST QUARTER OF SAID SECTION 20, 280 FEET TO A 1 INCH IRON PIPE; THENCE WESTERLY PARALLEL TO THE NORTH LINE OF SAID NORTHWEST QUARTER OF SOUTHWEST QUARTER OF SAID SECTION 20, 174.24 FEET TO A 1 INCH IRON PIPE; THENCE NORTHERLY PARALLEL TO THE EAST LINE OF SAID WEST HALF OF NORTHEAST QUARTER OF NORTHWEST QUARTER OF SOUTHWEST QUARTER OF SAID SECTION 20, 280 FEET TO A POINT ON THE NORTH LINE; THENCE EASTERLY ALONG THE NORTH LINE OF SAID WEST HALF OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 20, 174.24 FEET TO THE POINT OF BEGINNING. EXCEPTING THEREFROM ANY PORTION THEREOF LYING WITHIN THE RIGHT OF WAY OF THE ENTERPRISE CANAL AS GRANTED TO E. B. PERRIN BY DEED RECORDED IN BOOK 153, PAGE 140 OF DEEDS.

ALSO EXCEPTING THEREFROM AN UNDIVIDED 3/4 INTEREST IN AND TO ALL OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES AND MINERALS OF WHATSOEVER KIND AND NATURE IN, UPON OR BENEATH SAID PROPERTY AS EXCEPTED AND RESERVED IN THE DEED RECORDED JUNE 20, 1941 IN BOOK 1883, PAGE 461 AND IN THE DEED RECORDED OCTOBER 23, 1958 IN BOOK 4127, PAGE 647 OF OFFICIAL RECORDS.

PARCEL 3:
THE SOUTH HALF OF THE SOUTH HALF OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 14 SOUTH, RANGE 21 EAST, MOUNT DIABLO BASE AND MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF. EXCEPTING THEREFROM THE WEST 30 FEET. ALSO EXCEPTING THEREFROM THAT PORTION THEREOF, IF ANY, INCLUDED WITHIN THE RIGHT-OF-WAY OF THE ENTERPRISE CANAL, GRANTED TO E.B. PERRIN BY DEED RECORDED IN BOOK 153 PAGE 140 OF DEEDS. ALSO EXCEPTING THEREFROM AN UNDIVIDED 1/2 INTEREST IN AND TO ALL OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES AND MINERALS OF WHATSOEVER KIND AND NATURE IN, UPON OR BENEATH SAID PROPERTY, AS RESERVED IN THE DEED RECORDED JANUARY 21, 1941 AS DOCUMENT NO. 2239 IN BOOK 1883 PAGE 461 OFFICIAL RECORDS. ALSO EXCEPTING THEREFROM AN UNDIVIDED 1/4 INTEREST IN AND TO ALL OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES AND MINERALS OF WHATSOEVER KIND AND NATURE IN, UPON OR BENEATH SAID PROPERTY, AS RESERVED IN THE DEED FROM J.R. WOODBURY AND WIFE, TO JACK DOKE AND WIFE, DATED JANUARY 20, 1958, AND RECORDED OCTOBER 23, 1958 IN BOOK 4127 PAGE 647 OFFICIAL RECORDS.

PARCEL 4:
THE NORTH HALF OF THE SOUTH HALF OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 12 SOUTH RANGE 21 SOUTH, RANGE 21 EAST, MOUNT DIABLO BASE AND MERIDIAN, ACCORDING TO THE UNITED STATES GOVERNMENT TOWNSHIP PLATS. EXCEPTING THEREFROM THAT PORTION THEREOF, INCLUDED WITHIN THE RIGHT OF WAY OF THE ENTERPRISE CANAL, GRANTED TO E.S. PERRIN BY DEED RECORDED IN BOOK 153, PAGE 140 OF DEEDS.

ALSO EXCEPTING THEREFROM AN UNDIVIDED HALF INTEREST IN AND TO ALL OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES AND MINERALS OR WHATSOEVER KIND AND NATURE IN, UPON OR BENEATH SAID PROPERTY, AS RESERVED IN THE DEED RECORDED JANUARY 21, 1941 IN BOOK 1883, PAGE 461, OFFICIAL RECORDS.
ALSO EXCEPTING AN UNDIVIDED 1/4 INTEREST IN AND TO ALL OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES AND MINERALS OF WHATSOEVER KIND AND NATURE IN, UPON AND BENEATH SAID PROPERTY, AS RESERVED IN THE DEED FROM J.R. WOODBURY AND WIFE, TO JACK DOKE AND WIFE, DATED JANUARY 20, 1958 AND RECORDED OCTOBER 23,1958 IN BOOK 4127, PAGE 657, OFFICIAL RECORDS.
ALSO EXCEPTING THE WEST 30 FEET THEREOF AS GRANTED TO THE COUNTY OF FRESNO BY DEED RECORDED MAY 4, 1977, BOOK 6788, PAGE 56, SERIES NO. 44827, OFFICIAL RECORDS.

APN: 556-030-08S, 556-030-09S, 556-030-04S, 556-030-06S

## NOTES:

1. THIS AREA IS SUBJECT TO FLOODZONE X (UNSHADED).
2. ALL IMPROVEMENTS SHALL BE AS REQUIRED BY THE CITY OF CLOVIS TO CITY STANDARDS, AND SHALL INCLUDE SANITARY SEWER, DOMESTIC WATER, UNDERGROUND POWER, TELEPHONE, GAS, CONCRETE CURBS, GUTTERS, SIDEWALKS, PERMANENT STREET PAVEMENT STREET LIGHTS, ETC.
3. THERE SHALL BE NO GRADE DIFFERENTIALS OF GREATER THAN 6" WITHIN 200 FEET OF THE SITE UNLESS APPROVED BY THE CITY OF FRESNO DEVELOPMENT DEPARTMENT.
4. ALL EXISTING ABOVE GROUND USES OR STRUCTURES SUCH AS BUILDINGS, WATER WELLS, POWER LINES, TOWERS, ETC., WITHIN THE PROPOSED SUBDIVISION ARE TO BE REMOVED.
5. ALL UNDERGROUND FEATURES SUCH AS WELLS, CESSPOOLS, SEWERS, CULVERTS, STORM DRAINS, DUMP SITES AND OTHER UNDERGROUND STRUCTURES WITHIN THE PROPOSED SUBDIVISION ARE TO BE REMOVED AND ABANDONED.
6. THE DESIGN OF THE PROPOSED SUBDIVISION SHALL PROVIDE TO THE EXTENT FEASIBLE FOR FUTURE PASSIVE OR NATURAL HEATING OR COOLING OPPORTUNITIES AND OTHER MEASURES THAT CONSERVE NONRENEWABLE ENERGY RESOURCES AS PROVIDED IN THE SUBDIVISION MAP ACT.

SOURCE OF DATA
RECORD INFORMATION

EXISTING BUILDINGS
ALL EXISTING BUILDINGS & STRUCTURES TO BE REMOVED

EXISTING TREES
EXISTING TREES TO BE REMOVED AS NEEDED

PROPOSED ZONING
R-1-PRD

EXISTING ZONING
AE-20

PROPOSED GENERAL PLAN LAND USE
MEDIUM DENSITY RESIDENTIAL,
MEDIUM-HIGH DENSITY RESIDENTIAL

SOURCE OF WATER
CITY OF CLOVIS

SOURCE OF SEWAGE DISPOSAL
CITY OF CLOVIS

SOURCE OF WASTE DISPOSAL
CITY OF CLOVIS

SOURCE OF ELECTRICITY
PG&E

MAXIMUM LOT COUNT ALLOWED
MEDIUM: 7.0 DU/AC. X 4.71 NET AC. = 33 DU
MEDIUM-HIGH: 15.0 DU/AC. X 10.4 NET AC. = 156 DU
TOTAL DU ALLOWED = (33 LOTS + 139 LOTS) = 189 LOTS

## ASSESSOR'S PARCEL NUMBER, SITE ADDRESS, USE & OWNERSHIP

APN: 556-030-04
SITE ADDRESS: 9450 N. MINNEWAWA AVE, CLOVIS, CA 93619
OWNER: JOHN & TRICIA ZIMMERER, JON A. KURISU, MERRILL MICHAEL & MISHA KAY WIGHT MILLER, & DAVID M. WILLIAMS
MAILING ADDRESS: 220 TRENTON AVE, CLOVIS, CA 93619
USE: DUPLEX

APN:556-030-06
SITE ADDRESS: 9434 N. MINNEWAWA AVE, CLOVIS, CA 93619
OWNER: JOHN & TRICIA ZIMMERER, JON A. KURISU, MERRILL MICHAEL & MISHA KAY WIGHT MILLER, & DAVID M. WILLIAMS
MAILING ADDRESS: 220 TRENTON AVE, CLOVIS, CA 93619
USE: SINGLE FAMILY RESIDENTIAL

APN:556-030-08
SITE ADDRESS: 4165 PERRIN RD, CLOVIS, CA 93619
OWNER: JOHN & TRICIA ZIMMERER, JON A. KURISU, MERRILL MICHAEL & MISHA KAY WIGHT MILLER, & DAVID M. WILLIAMS
MAILING ADDRESS: 220 TRENTON AVE, CLOVIS, CA 93619
USE: RESIDENTIAL

APN:556-030-09
SITE ADDRESS: 4185 PERRIN RD, CLOVIS, CA 93619
OWNER: JOHN & TRICIA ZIMMERER, JON A. KURISU, MERRILL MICHAEL & MISHA KAY WIGHT MILLER, & DAVID M. WILLIAMS
MAILING ADDRESS: 220 TRENTON AVE, CLOVIS, CA 93619
USE:SINGLE FAMILY RESIDENTIAL

SOURCE OF GAS
PG&E

SOURCE OF CABLE T.V.
COMCAST

AVERAGE LOT SIZE
2,364 S.F.

DENSITY
11.61 D.U./AC.

SOURCE OF TELEPHONE
AT&T

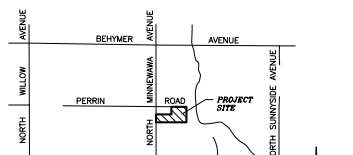
SITE AREA
14.57 AC. (GROSS)
13.95 AC. (NET)

NUMBER OF LOTS
162 LOTS & 24 OUTLOTS

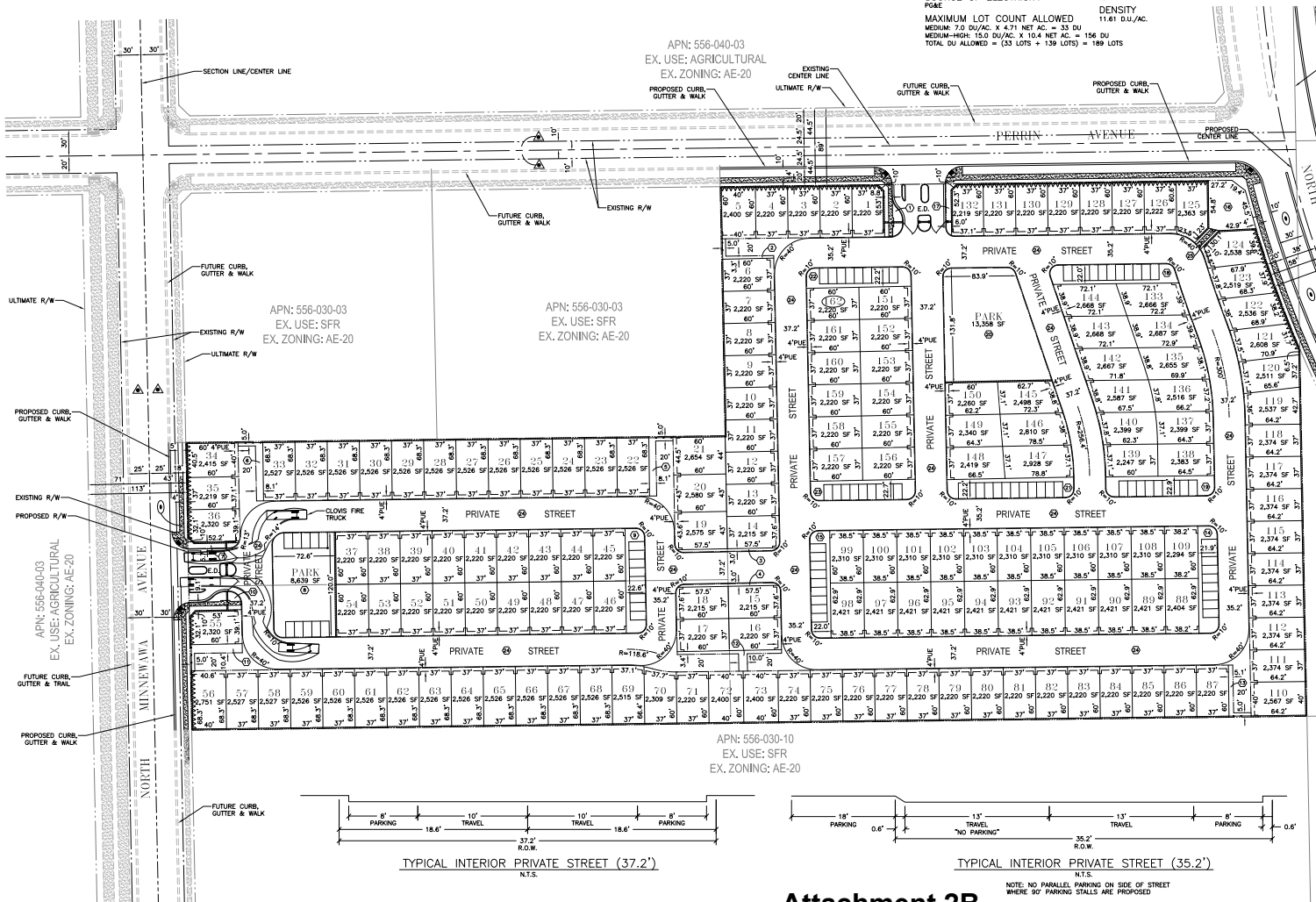
VESTING
TENTATIVE SUBDIVISION MAP

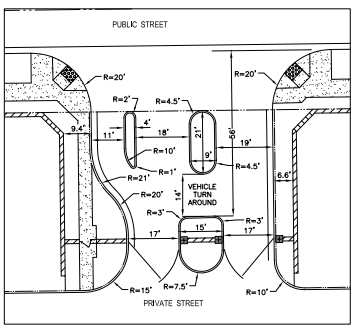
TR AGENDA ITEM NO. 17. 7

IN THE CITY OF CLOVIS
FRESNO COUNTY, CALIFORNIA




VICINITY MAP
N.T.S.



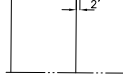

ENTRY DETAIL
SCALE: 1"=20'

## LEGEND:

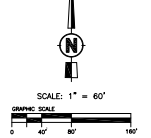
- INDICATES STREETS PREVIOUSLY DEDICATED FOR PUBLIC USE
- PUBLIC STREET EASEMENT NOW OFFERED FOR DEDICATION FOR PUBLIC USE
- OUTLOT IDENTIFIER
- E.D. ENTRY DETAIL THIS SHEET
- PROPOSED CONCRETE SIDEWALK
- RELINQUISHMENT OF ACCESS ALONG DOUBLE FRONTAGE LOTS
- PUE PUBLIC UTILITY EASEMENT NOW OFFERED FOR DEDICATION FOR PUBLIC USE
- PROPOSED 6' BLOCK WALL

## OUTLOT SCHEDULE:

- OUTLOT 24 IS FOR PRIVATE STREET AND PUBLIC UTILITY PURPOSES.
- OUTLOT 8 & 20 IS FOR PRIVATE PARK AREA AND PUBLIC UTILITY PURPOSES.
- OUTLOTS 9, 14, 15, 18, 19, 21, 22, 23 ARE FOR PRIVATE PARKING, PRIVATE LANDSCAPE AND PUBLIC UTILITY.
- OUTLOTS 1, 10, & 25 ARE FOR PRIVATE LANDSCAPE, PRIVATE PEDESTRIAN AND PUBLIC UTILITY PURPOSES.
- OUTLOTS 2, 3, 4, 5, 6, 7, 11, 12, 13, 17 ARE FOR PRIVATE LANDSCAPE AND PUBLIC UTILITY PURPOSES.
- OUTLOT 16 IS FOR PUBLIC OPEN SPACE PURPOSES.




PUE DETAIL
N.T.S.







TYPICAL INTERIOR PRIVATE STREET (37.2')
N.T.S.




TYPICAL INTERIOR PRIVATE STREET (35.2')
N.T.S.

NOTE: NO PARALLEL PARKING ON SIDE OF STREET WHERE 90° PARKING STALLS ARE PROPOSED

**Attachment 2B**

## TENTATIVE TRACT MAP

SUBDIVIDER
Bonadelle Neighborhoods
7030 FIRST AVENUE #101
FRESNO, CA. 93711
559-435-0700


Harbour & Associates
Civil Engineers
389 Clovis Avenue, Suite 300 • Clovis, California 93612
(559) 325-7676 • Fax (559) 325-7569 • e-mail bmmc@harbourandassociates.com


| REVISIONS | SHEET NO. |
|---|---|
| | 1 OF 1 |

DATE: 10-14-24 | SCALE: 1"= 60' | DRAWN BY: SDH | W.O. #23-031

# RESOLUTION 24-__

## RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLOVIS APPROVING PLANNED DEVELOPMENT PERMIT 2024-003 FOR VESTING TENTATIVE TRACT MAP 6467 LOCATED SOUTH OF E. PERRIN, BETWEEN N. MINNEWAWA AVENUE AND THE N. CLOVIS AVENUE ALIGNMENT

**WHEREAS,** Bonadelle Homes ("Applicant"), 7030 Fruit Avenue #101, Fresno, CA 93711, submitted an application for Planned Development Permit ("PDP") 2024-003 ("PDP2024-003") to deviate from the R-1 Zone District development standards associated with Vesting Tentative Tract Map 6467 for a 162-lot single-family subdivision ("Project") on approximately 14.57 acres of property located on the located south of E. Perrin, between N. Minnewawa Avenue and the N. Clovis Avenue Alignment ("Property"); and

**WHEREAS,** PDP2024-003 is in keeping with the intent and purpose of Chapter 66 of Title 9 of the Clovis Municipal Code (Development Code); and

**WHEREAS,** the Planning Commission considered PDP2024-003 on November 21, 2024, recommending approval of said PDP; and

**WHEREAS,** the City published notice of the public hearing in the Fresno Business Journal on December 2, 2024 mailed public notices to property owners within 950 feet of the Property twenty-one (21) days prior to said City Council hearing, and otherwise posted notice of the Public Hearing according to applicable law; and

**WHEREAS,** a duly noticed public hearing was held on December 16, 2024; and

**WHEREAS,** the City Council has given careful consideration to this PDP on December 16, 2024, and considered the CEQA analysis outlined in the staff report and elsewhere in the Administrative Record which determines that the PDP meets the requirements pursuant to CEQA Guidelines and does adopt the mitigated negative declaration and the mitigation monitoring program for the Project; and

**WHEREAS,** the City Council has reviewed and considered the entire Administrative Record relating to the Project, which is on file with the Department, and reviewed and considered those portions of the Administrative Record determined to be necessary to make an informed decision, including, but not necessarily limited to, the staff report, the written materials submitted with the request, and the verbal and written testimony and other evidence presented during the public hearing, and the conditions of approval attached as **Attachment A** to this Resolution, which are incorporated herein by this reference.

**NOW, THEREFORE, BASED UPON THE ENTIRE RECORD OF THE PROCEEDINGS, THE CITY COUNCIL RESOLVES AND FINDS AS FOLLOWS:**

1. The City Council hereby approves PDP2024-003, subject to the conditions of approval set forth in **Attachment A** of this Resolution.

2. The Project satisfies the required findings for approval of a PDP, as follows:

   a. The Project is allowed within the subject base zoning district.

   b. The Project is consistent with the purpose, intent, goals, policies, actions, and land use designations of the General Plan and any applicable specific plan.

   c. The Project is generally in compliance with all of the applicable provisions of this Development Code relating to both on- and off-site improvements that are necessary to accommodate flexibility in site planning and property development and to carry out the purpose, intent, and requirements of this chapter and the subject base zoning district, including prescribed development standards and applicable design guidelines.

   d. The Project ensures compatibility of property uses within the zoning district and general neighborhood of the proposed development.

   e. The Project would produce a comprehensive development of superior quality (e.g., appropriate variety of structure placement and orientation opportunities, appropriate mix of structure sizes, high quality architectural design, increased amounts of landscaping and open space, improved solutions to the design and placement of parking facilities, incorporation of a program of enhanced amenities, etc.) than which might otherwise occur from more traditional development applications.

   f. Proper standards and conditions have been imposed to ensure the protection of the public health, safety, and welfare.

   g. Proper on-site traffic circulation and control is designed into the development to ensure protection for fire suppression and police surveillance equal to or better than what would normally be created by compliance with the minimum setback and parcel width standards identified in Division 2 of Title 9 of the Clovis Municipal Code (Zoning Districts, Allowable Land Uses, and Zone-Specific Standards).

   h. The subject Property is adequate in terms of size, shape, topography, and circumstances to accommodate the proposed development.

   i. The design, location, operating characteristics, and size of the Project would be compatible with the existing and future land uses in the vicinity, in terms of aesthetic values, character, scale, and view protection.

3. Without the conditions of approval (**Attachment A** of this resolution), the City Council could not make the findings necessary for approval of PDP2024-003.

4. The basis for the findings is detailed in the December 16, 2024, staff report, which is hereby incorporated by reference, the entire Administrative Record, as well as the evidence and comments presented during the public hearing.

* * * * * *

The foregoing resolution was introduced and adopted at a regular meeting of the City Council of the City of Clovis held on December 16, 2024, by the following vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAIN:

DATED: December 16, 2024

_____ _____

Mayor City Clerk

**Attachment A**
**Conditions of Approval – PDP2024-003**
**Planning Division Comments**
(Marissa Jensen, Assistant Planner – 559-324-2338)

1. The Project must produce a comprehensive development of superior quality than which might otherwise occur from more traditional development on the site. This will be reviewed and approved through the civil plan review process and residential site plan review.

2. The applicant must provide two (2) pocket parks totaling ±21,997 square feet, inclusive of a recreation center with fitness rooms, covered dining areas, restrooms, open space areas, a pickleball court, and a pool as designed in **Attachment 5**.

3. As a public amenity for the Project, the Applicant shall contribute the dollar amount totaling $40,165 to the City for utilization in existing or future open space and/or park improvements.

4. The developer shall construct a minimum six-foot high solid split face masonry wall along the Perrin, Clovis, and Minnewawa Avenue frontages of TM6467.

5. The developer shall design and install the Community Gateway (Community Corner Paseo) a community corner paseo is required at the southwest corner of N. Clovis and E. Perrin Avenues. The Corner Paseo shall be designed to meet the intent outlined in the Heritage Grove Guidelines.

6. The developer shall screen all ground mounted mechanical equipment from public view from abutting public streets and rights-of-way and open space uses. Screening material shall be constructed of materials consistent with the superior quality of the PDP and Heritage Grove Design Guidelines.

7. Landscape features and forms within amenity areas shall be consistent with Heritage Grove Design Guidelines. Details shall be provided in the construction plan.

8. No more than two (2) of the same unit type (floor layout and exterior materials package) shall be repeated side by side. When two (2) of the same units are repeated side by side, they shall be different colors. These identical provisions may be waived by the City Planner on a specific lot basis within the project when the size or configuration of a lot would otherwise prevent compliance with the above requirements of any other siting or setback/yard requirements established under this application. If such a waiver is requested, the developer and City Planner shall work together to ensure that any sitings of units not in compliance with the above requirements shall be of different materials and elevations in order to minimize any adverse visual impacts that may result.

9. Setbacks shall be measured to the exterior face of the framing of the structure. Exceptions to the setbacks are identified in section 9.24.100 of the Clovis Municipal Code.

10. Development standards for the lots of TM6467 shall be as follows:

| **Standards** | **Harvest Product (162 lots)** |
|---|---|
| Minimum Lot Size (Square Feet) | 2,220 |
| Minimum Parcel Width | 37 feet |
| Minimum Curved Parcel Width | 60 feet |
| Minimum Corner Parcel Width | 37 feet |
| Minimum Parcel Depth | 60 feet |
| Maximum Lot Coverage | 65 % |
| Maximum Height | 35 feet / 2 Stories |
| Front (Garage) Setback | 5 feet |
| Front (Living) Setback | 5 feet |
| Setback to Projections and/or Porch/ Patio | 4 feet |
| Garage Side Setback | 5 feet |
| Corner Street Side Setbacks | 3 feet |
| Reversed Corner Street Side Setback | 3 feet |
| Corner Street Side Fence Setback | 3 feet |
| Interior Side Yard Setback (opposite from garage) | 3 feet |
| Rear Setback | 5 feet |
| Garages | 20’x20’ interior dimension (2-car)<br><br>12’x20’ interior dimension (1-car) |

11. All lighting shall be screened from direct view from the public right-of-way and adjacent residential properties.

12. The developer shall utilize streetlights along local streets within the development area that are of the same design and luminosity as surrounding developments within Heritage Grove.

13. A residential site plan review is required to memorialize building plans and elevations for the different product types of TM6467. Specific color and materials of the models, walls, amenities, landscaping, and fencing will be evaluated through the civil plans.

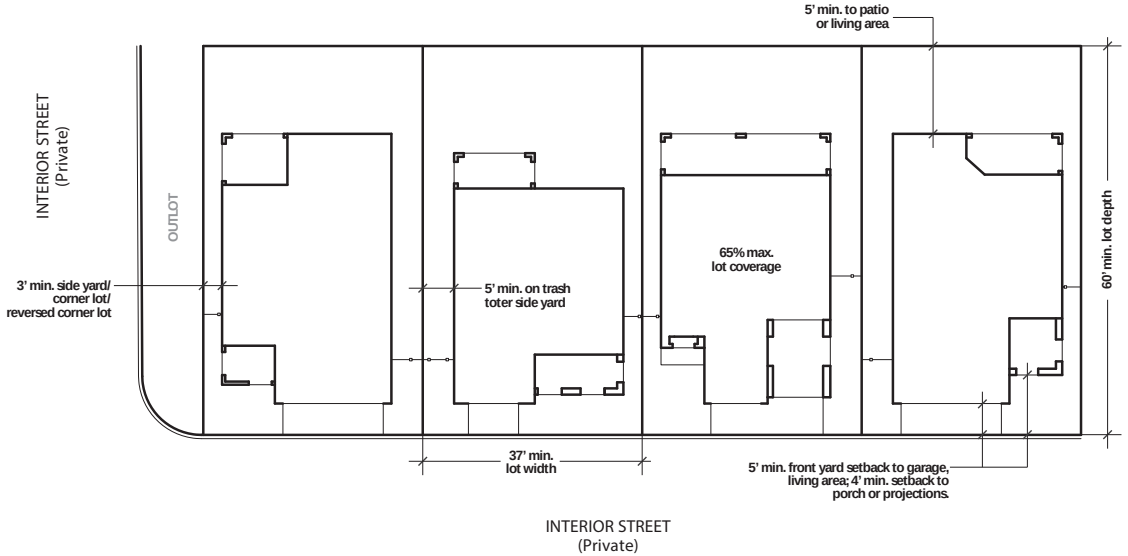
# TRACT 6467

AGENDA ITEM NO. 17.

## Residential Land Use Development Standards

TRACT 6467 – SEC MINNEWAWA AVE & PERRIN RD

| LAND USE | DEVELOPMENT STANDARDS | |
|---|---|---|
| **SINGLE-FAMILY RESIDENTIAL** | **STANDARD** | **NOTES** |
| **DESIGNATION** | | |
| Zone District | R-1-PRD | |
| GP Density Range | 4.1 - 7.0 du/ac<br>7.1 - 15.0 du/ac | Medium Density Residential<br>Medium-High Density Residential |
| Dwelling Units | 162 | |
| **BUILDING INTENSITY** | | |
| Minimum Lot Area | 2,220 sq ft | |
| Minimum Lot Width | 37' | |
| Minimum Lot Depth | 60' | |
| Maximum Coverage | 65% | |
| Maximum Height | 35' | 2 story homes |
| Curved, Cul-de-sac or Corner Lot | 37' min/60' min | For street frontage/For lot depth |
| **BUILDING SETBACKS** | | **All setbacks measured from PL.** |
| Front Yard | 5' min/4' min | To garage, living area/porch or projections |
| Side Yard | 5' min/3' min | 5' min one side/3' min other side |
| Corner/Reversed Corner | 3' min | |
| Rear Yard | 5' min | |
| **GARAGES/STREETS/PARKING** | | |
| Garages | 1-car<br>2-car | 12'x20' min<br>20'x20' min |
| Streets (Interior) | 36' wide<br>34' wide | Curb-to-curb with parking on both sides<br>Curb-to-curb with parking on one side |
| Parking | 1 space/unit<br><br><br><br>2 spaces/unit | Lots 1-4, 6, 7, 12-19, 31-33, 35, 44, 45, 53, 57-60, 74-76, 85-88, 98-109, 113-116, 133, 138, 139, 144, 147, 148, 151, 156, 157 & 162<br>(adjacent to perpendicular parking stalls)<br>All other lots |
| **ACCESSORY USES** | | **General list of requirements and restrictions.** |
| Walls/Fences | 6' min - 8' high max | |
| Trellises | 12' high max | |
| Covered Structures<br>Accessory Buildings | 12' high max | Covered structures and building additions are allowed subject to review by HOA committee and permitting by the City of Clovis, provided that lot coverage standards are not exceeded and that a rear yard encroachment permit is obtained if encroachment into rear yard occurs. |

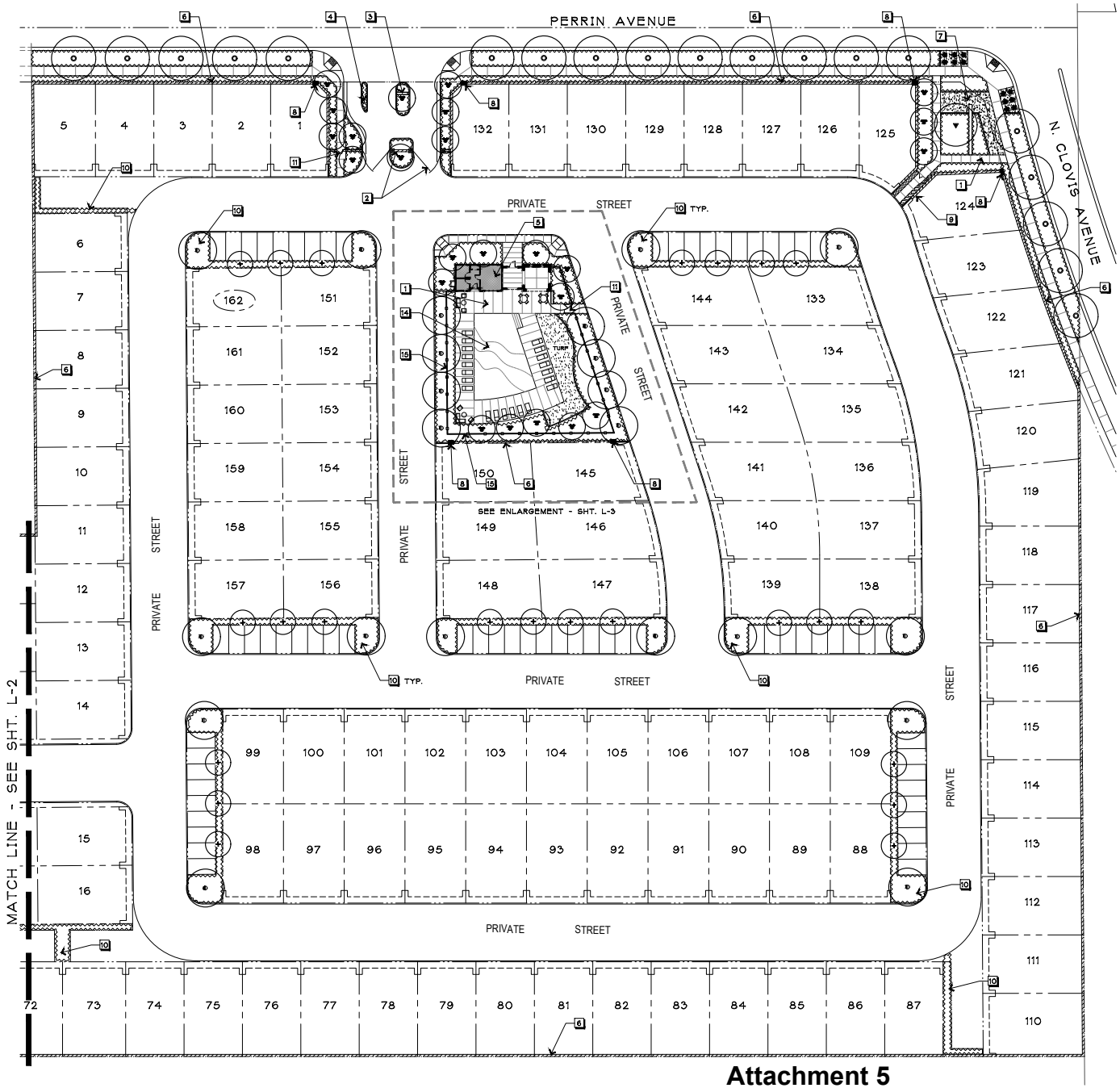



**NOTE: Construction of more than two of the same plan type in a row shall be addressed through the Residential Site Plan Review process.**

The imagery conveys samples of the architectural character intended for these neighborhoods.

NOT TO SCALE

**Attachment 4**




## PLANT PALETTE

| | BOTANICAL NAME / COMMON NAME | COMMENTS | WATER USAGE |
|---|---|---|---|
| **TREES** | | | |
| + | LAGERSTROEMIA INDICA 'NATCHEZ' / CRAPE MYRTLE | STANDARD | LOW |
| | OLEA EUROPAEA 'WILSONII' / WILSON OLIVE | MULTI-TRUNK | V. LOW |
| | PISTACIA CHINENSIS 'KEITH DAVIES' / CHINESE PISTACHE | STANDARD | LOW |
| | PLATANUS RACEMOSA / CALIFORNIA SYCAMORE | STANDARD | MED |
| | QUERCUS VIRGINIANA / SOUTHERN LIVE OAK | MULTI-TRUNK | MED |
| **SHRUBS** (PLANTING AREA) | | | |
| | BUXUS JAPONICA 'GREEN BEAUTY' / BOXWOOD | | MED |
| | DIANELLA REVOLTA 'COOL VISTA' / COOLVISTA FLAX LILY | | LOW |
| | EUONYMUS JAPONICUS 'GREEN SPIRE' / GREEN SPIRE EUONYMUS | | LOW |
| | HESPERALOE PARVIFLORA / RED YUCCA | | LOW |
| | LAURUS NOBILIS / BAY LAUREL | | LOW |
| | LIGUSTRUM JAPONICA 'TEXANUM' / JAPANESE PRIVET | | LOW |
| | MUHLENBERGIA CAPILLARIS 'WHITE CLOUD' / WHITE MUHLY | | LOW |
| | OLEA EUROPAEA 'MONTRA' / LITTLE OLLIE | | V. LOW |
| | PRUNUS CAROLINIANA 'BRIGHT 'N TIGHT' / CAROLINA CHERRY | | LOW |
| | ROSA 'ICEBERG' / ICEBERG ROSE | | MED |
| | RHAPHIOLEPIS UMBELLATA 'Minor' / DWARF YEDDO HAWTHORN | | LOW |
| | TEUCRIUM CHAMAEDRYS / WALL GERMANDER | | LOW |
| | LANTANA MONTEVIDENSIS 'ALBA' / WHITE TRAILING LANTANA | | LOW |
| | MYOPORUM PARVIFOLIUM / MYOPORUM | | LOW |

### TURF GRASS

AG-1 SOD / HYBRID BERMUDA

### PLANTING NOTES

1) SHRUB AND TREE PLANTING PER CITY STANDARD DETAILS.
2) ROOT BARRIER: BARRIER (ONE) PANELS). INSTALL AT BACK OF CURB AND @ TREES WITHIN 10' OF ADJACENT HARDSCAPE, HARDSCAPE TO INCLUDE CRUSHED ROCK PATHS.
3) ALL SHRUB AREAS TO RECEIVE 3" OF SHREDDED BARK MULCH

### IRRIGATION NOTES

1) THE IRRIGATION DESIGN SHALL CONFORM TO THE CITY OF CLOVIS WATER ORDINANCE.
2) THE IRRIGATION CONTROLLER SHALL BE AN ET BASED AUTOMATIC CONTROLLER.
3) NO OVERHEAD SPRAY IRRIGATION IN SHRUB AREAS, IN LINE DRIP OR BUBBLERS ONLY.

## CONSTRUCTION LEGEND

| SYM. | DESCRIPTION |
|---|---|
| 1 | PEDESTRIAN CONCRETE |
| 2 | ENTRY GATES, SEE ELEVATION SHT. L-2 |
| 3 | MONUMENT SIGN |
| 4 | CALL BOX |
| 5 | RECREATION CENTER WITH RESTROOM, FITNESS ROOM & COVERED DINING AREA |
| 6 | COMMUNITY MASONRY WALL, SPLIT FACE BLOCK COLOR: TAN, DETAIL A/L-3 |
| 7 | STONE ENTRY WALL AND LANDSCAPE PER HERITAGE GROVE DESIGN GUIDELINES, DET. B/L-3 |
| 8 | STONE PILASTER, DETAIL C/L-3 |
| 9 | PASEO WALL & ACCESS GATE |
| 10 | H.O.A. MAINTAINED LANDSCAPE AREA |
| 11 | PEDESTRIAN ACCESS GATE |
| 12 | 6' BENCH |
| 13 | PICKLEBALL COURT, DET. A/L-2 |
| 14 | 50' POOL |
| 15 | 5' HT. TUBULAR STEEL FENCE AT POOL |

NORTH

0 30' 60'

SCALE: 1"=30'

BROUSSARD ASSOCIATES
landscape architects
389 Clovis Ave., Suite 200
Clovis, CA 93612
T 559.325.7284
F 559.325.7286

REVISIONS

1
2
3
4
5

Contractor shall verify and be responsible for all dimensions and conditions on the job and shall notify the office of Broussard Associates, Landscape Architects, of any errors, discrepancies or variations from the information shown by these drawings. Written dimensions shall govern over scaled dimensions. Shop drawings are required to be submitted for approval before proceeding with any fabrication.
All designs, ideas and information shown on these drawings and specifications are and shall remain the property of Broussard Associates, Landscape Architects, and shall not be used in whole or part for any work on any other site except the specific project for which they have been prepared and developed without the written consent of Broussard Associates, Landscape Architects. Visual contact with these drawings or specifications shall constitute conclusive evidence of acceptance of these restrictions.

LICENSED LANDSCAPE ARCHITECT TERRY R. BROUSSARD No. 3569 EXP. 01/31/25 STATE OF CALIFORNIA

CLIENT AND PROJECT BON241771

BONADELLE NEIGHBORHOODS
(559) 316-5814

TR 6467
N. CLOVIS AVE. & PERRIN AVE.

SHEET DESCRIPTION

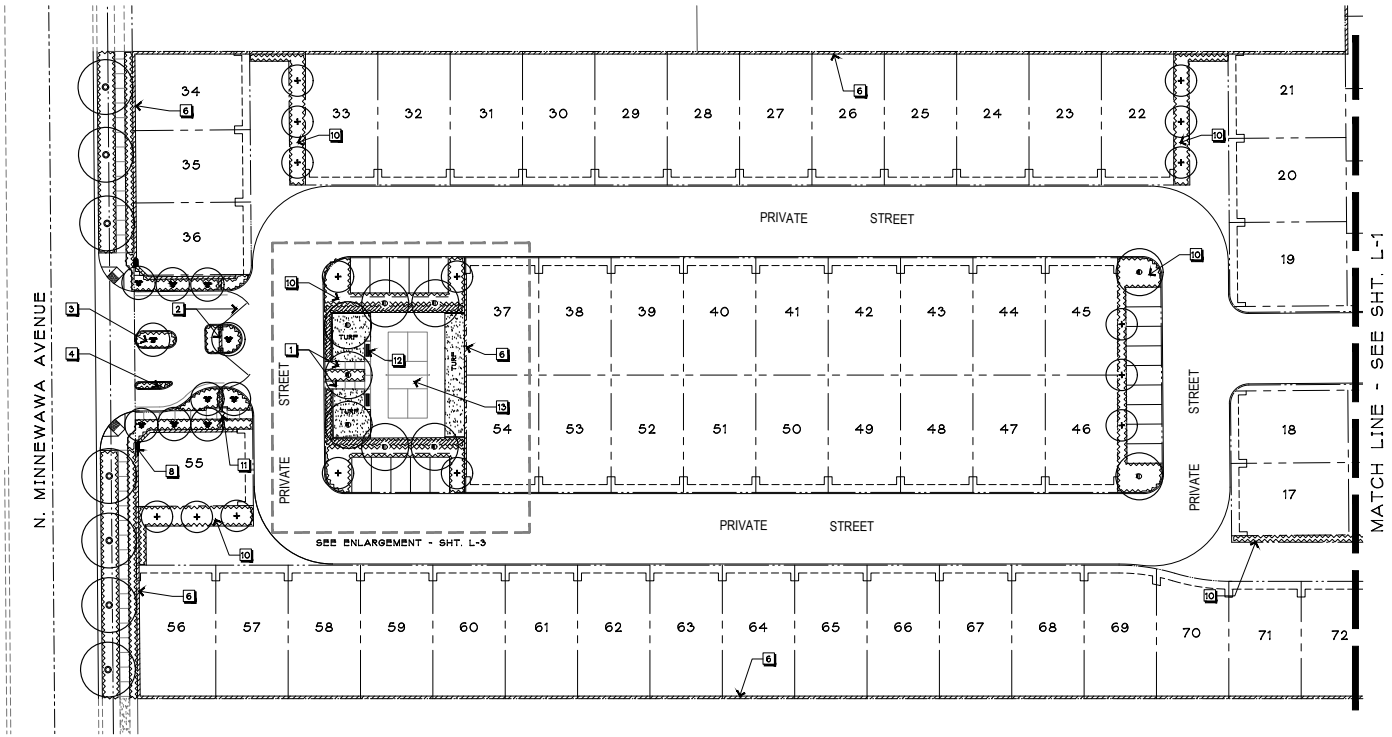
LANDSCAPE SITE PLAN

DATE: 9/2024
SCALE: AS SHOWN
DRAWN:
SHEET: 2617

**Attachment 5**




## ENTRY GATES
SCALE: 1/4" = 1'-0"




## PLANT PALETTE

| | BOTANICAL NAME / COMMON NAME | COMMENTS | WATER USAGE |
|---|---|---|---|
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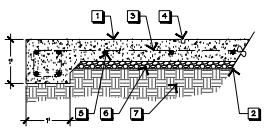
| | PISTACIA CHINENSIS 'KEITH DAVIES' / CHINESE PISTACHE | STANDARD | LOW |
| | PLATANUS RACEMOSA / CALIFORNIA SYCAMORE | STANDARD | MED |
| | QUERCUS VIRGINIANA / SOUTHERN LIVE OAK | MULTI-TRUNK | MED |
| **SHRUBS** (PLANTING AREA) | | | |
| | BUXUS JAPONICA 'GREEN BEAUTY' / BOXWOOD | | MED |
| | DIANELLA REVOLTA 'COOL VISTA' / COOLVISTA FLAX LILY | | LOW |
| | EUONYMUS JAPONICUS 'GREEN SPIRE' / GREEN SPIRE EUONYMUS | | LOW |
| | HESPERALOE PARVIFLORA / RED YUCCA | | LOW |
| | LAURUS NOBILIS / BAY LAUREL | | LOW |
| | LIGUSTRUM JAPONICA 'TEXANUM' / JAPANESE PRIVET | | LOW |
| | MUHLENBERGIA CAPILLARIS 'WHITE CLOUD' / WHITE MUHLY | | LOW |
| | OLEA EUROPAEA 'MONTRA' / LITTLE OLLIE | | V. LOW |
| | PRUNUS CAROLINIANA 'BRIGHT N TIGHT' / CAROLINA CHERRY | | LOW |
| | ROSA 'ICEBERG' / ICEBERG ROSE | | MED |
| | RHAPHIOLEPIS UMBELLATA 'Minor' / DWARF YEDDO HAWTHORN | | LOW |
| | TEUCRIUM CHAMAEDRYS / WALL GERMANDER | | LOW |
| | LANTANA MONTEVIDENSIS 'ALBA' / WHITE TRAILING LANTANA | | LOW |
| | MYOPORUM PARVIFOLIUM / MYOPORUM | | LOW |

### TURF GRASS
AG-1 SOD / HYBRID BERMUDA

### PLANTING NOTES
1) SHRUB AND TREE PLANTING PER CITY STANDARD DETAILS.
2) ROOT BARRIER: BARRIER (10'X2' PANELS). INSTALL AT BACK OF CURB AND @ TREES WITHIN 10' OF ADJACENT HARDSCAPE, (HARDSCAPE TO INCLUDE CRUSHED ROCK PATHS.
3) ALL SHRUB AREAS TO RECEIVE 3" OF SHREDDED BARK MULCH

### IRRIGATION NOTES
1) THE IRRIGATION DESIGN SHALL CONFORM TO THE CITY OF CLOVIS WATER ORDINANCE.
2) THE IRRIGATION CONTROLLER SHALL BE AN ET BASED AUTOMATIC CONTROLLER.
3) NO OVERHEAD SPRAY IRRIGATION IN SHRUB AREAS, IN LINE DRIP OR BUBBLERS ONLY.

### LEGEND
1. NATURAL COLOR CONCRETE PAVING
2. 6 MIL VAPOR BARRIER
3. #4 REBAR @ 18" O.C. EACH WAY
4. 1/2" FELT EXPANSION JOINT; CAULK TO MATCH ADJACENT PAVING; TYP. BETWEEN SEPARATE POURS - 18'-0" MIN - 21' MAX
5. #4 REBAR DOWELS AT 18" O.C.; TYP. BETWEEN POURS
6. 2" COMPACTED ROCK DUST
7. COMPACTED SUBGRADE PER SOIL ENGINEER




## A CONCRETE @ PICKLEBALL COURT
SCALE: 3/4" = 1'-0"

### CONSTRUCTION LEGEND

| SYM. | DESCRIPTION |
|---|---|
| 1 | PEDESTRIAN CONCRETE |
| 2 | ENTRY GATES, SEE ELEVATION SHT. L-2 |
| 3 | MONUMENT SIGN |
| 4 | CALL BOX |
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| 9 | PASEO WALL & ACCESS GATE |
| 10 | H.O.A. MAINTAINED LANDSCAPE AREA |
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| 12 | 6' BENCH |
| 13 | PICKLEBALL COURT, DET. A/L-2 |
| 14 | 50' POOL |
| 15 | 5' HT. TUBULAR STEEL FENCE AT POOL |

NORTH
0 30' 60'
SCALE: 1"=30'

BROUSSARD ASSOCIATES
landscape architects
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REVISIONS
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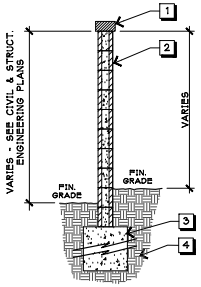
Contractor shall verify and be responsible for all dimensions and conditions on the job and shall notify the office of Broussard Associates, Landscape Architects of any errors, discrepancies or variations from the information shown by these drawings. Written dimensions shall have precedence over scaled dimensions. Shop drawings shall be submitted to this office for approval before proceeding with any fabrication.
All designs, ideas and information shown on these drawings and specifications are and shall remain the property of Broussard Associates, Landscape Architects and shall not be used in whole or part for any work on any other site except the specific project for which they have been prepared without the written permission of Broussard Associates, Landscape Architects. Visual contact with these drawings or specifications shall constitute conclusive evidence of acceptance of these restrictions.

LICENSED LANDSCAPE ARCHITECT TERRY R. BROUSSARD, MEMBER EXP. 01/31/25 STATE OF CALIFORNIA

CLIENT AND PROJECT BON241771
BONADELLE NEIGHBORHOODS
(559) 316-5814
TR 6467
N. CLOVIS AVE. & PERRIN AVE.

SHEET DESCRIPTION
LANDSCAPE SITE PLAN

DATE: 9/2024
SCALE: AS SHOWN
DRAWN:
SHEET: 2618




LEGEND

1. 4x8x16 SLUG
2. 6x8x16 SPLIT FACE BASALITE: S-515(B), SPLIT FACE ON STREET SIDE, MORTAR: BASALITE #52 375, GROUT SOLID ALL CELLS
3. CONCRETE FOOTING - SEE ENG. WALL PLANS
4. COMPACTED SUBGRADE

NOTES:

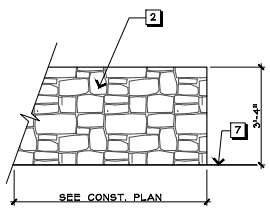
1. ALL BLOCK WALLS REQUIRE A CITY BUILDING PERMIT.
2. SOIL UNDER FOOTING TO BE COMPACTED TO 90% RELATIVE COMPACTION.
3. FOOTING SHALL BE 2500 PSI @ 28 DAYS. FOOTINGS SHALL NOT ENCROACH ONTO ADJACENT PROPERTY. ECCENTRIC FOOTINGS (L-TYPE) MAY BE USED TO OFFSET WALL AT P/L.
4. CONCRETE BLOCK SHALL BE 2000 PSI WITH TYPE AND COLOR APPROVED BY THE PLANNING DIVISION.
5. ALL WALLS TO BE PLUMB WITH ALL BLOCK COURSES LAID LEVEL. ALL CELLS TO BE FILLED WITH 2000 PSI @ 28 DAY GROUT.
6. ALL ECCENTRIC FOOTINGS, ALL WALLS OVER 6' HIGH, AND ALL WALLS ALTERNATELY DESIGNED SHALL BE ENGINEERED BY A REGISTERED ENGINEER AND SHALL BE APPROVED BY THE CITY.

## (A) PERIMETER BLOCK WALL

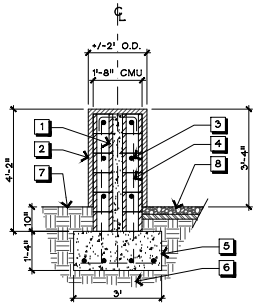
SCALE: 1/2" = 1'-0"

LEGEND

1. 8X8X16 CMU. SOLID FILL ALL CELLS
2. STONE VENEER: ROUGH CUT, COLOR: VINEYARD TRAIL, BY ELDORADO STONE, ALLOW 2"
3. NO. 4 HORIZ. REBAR TIES @ 16" O.C.
4. NO. 4 VERT. REBAR
5. CONC. FOOTING PER STRUCT. ENG.
6. SUB-GRADE PER SOIL ENG. SPECS
7. FINISH GRADE
8. D.G. - SEE DET D/LD-1



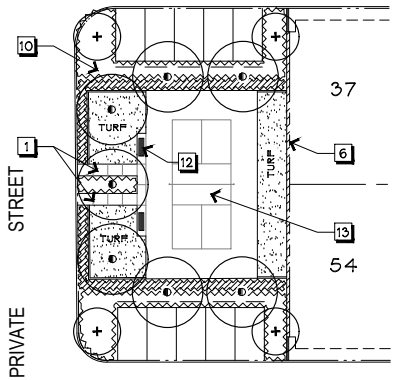

ELEVATION




SECTION

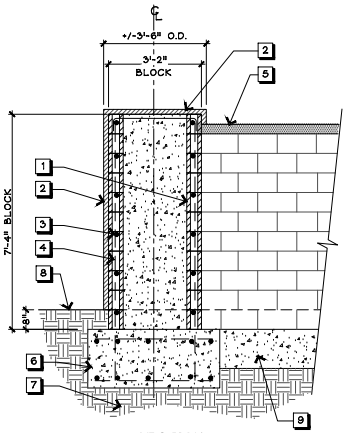
## (B) HERITAGE GROVE STONE ENTRY WALL

SCALE: 1/2" = 1'-0"

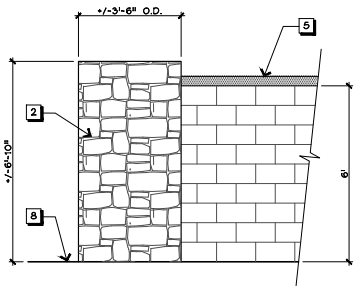



## PICKLEBALL COURTS ENLARGEMENT

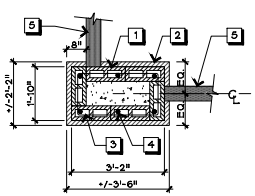
SCALE: 1" = 20'




SECTION




ELEVATION



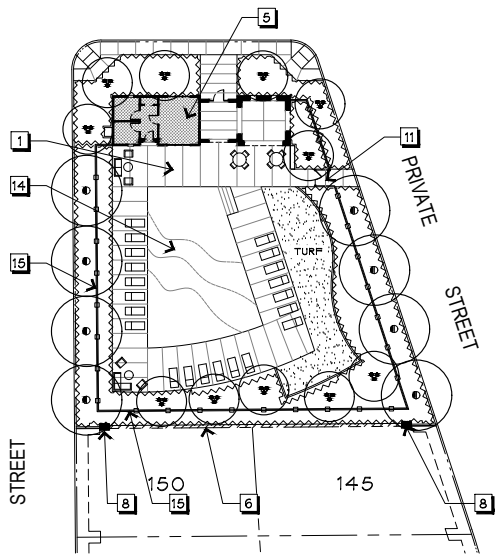

PLAN

LEGEND

1. 6X8X16 CMU. SOLID FILL ALL CELLS
2. STONE VENEER: ROUGH CUT, COLOR: VINEYARD TRAIL, BY ELDORADO STONE, ALLOW 2"
3. NO. 4 HORIZ. REBAR TIES @ 16" O.C. AND TOP & BOTTOM
4. NO. 5 VERT. REBAR
5. PERIMETER BLOCK WALL WITH CAP & FOOTING (SEE C/LD-6)
6. CONC. FOOTING PER STRUCT. ENG.
7. SUB-GRADE PER SOIL ENG. SPECS
8. FINISH GRADE
9. WALL FOOTING

## (C) PERIMETER BLOCK WALL

SCALE: 1/2" = 1'-0"

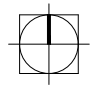



## RECREATION CENTER & POOL ENLARGEMENT

SCALE: 1" = 20'

CONSTRUCTION LEGEND

| SYM. | DESCRIPTION |
|---|---|
| 1 | PEDESTRIAN CONCRETE |
| 2 | ENTRY GATES, SEE ELEVATION SHT. L-2 |
| 3 | MONUMENT SIGN |
| 4 | CALL BOX |
| 5 | RECREATION CENTER WITH RESTROOM, FITNESS ROOM & COVERED DINING AREA |
| 6 | COMMUNITY MASONRY WALL, SPLIT FACE BLOCK COLOR: TAN, DETAIL A/L-3 |
| 7 | STONE ENTRY WALL AND LANDSCAPE PER HERITAGE GROVE DESIGN GUIDELINES, DET. B/L-3 |
| 8 | STONE PILASTER, DETAIL C/L-3 |
| 9 | PASEO WALL & ACCESS GATE |
| 10 | H.O.A. MAINTAINED LANDSCAPE AREA |
| 11 | PEDESTRIAN ACCESS GATE |
| 12 | 6' BENCH |
| 13 | PICKLEBALL COURT, DET. A/L-2 |
| 14 | 50' POOL |
| 15 | 5' HT. TUBULAR STEEL FENCE AT POOL |




0 20' 40'

SCALE: 1"=20'

BROUSSARD ASSOCIATES
landscape architects
389 Clovis Ave., Suite 200
Clovis, CA 93612
T 559.325.7284
F 559.325.7286

REVISIONS

1
2
3
4
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Contractor shall verify and be responsible for all dimensions and conditions on the job and shall notify the office of Broussard Associates, Landscape Architects of any errors, discrepancies or variations from the information shown by these drawings. Written dimensions shall govern over scaled dimensions. Shop drawings are required to be submitted for approval before proceeding with any fabrication.
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LICENSED LANDSCAPE ARCHITECT TERRY R. BROUSSARD 4938 EXP. 01/31/25 STATE OF CALIFORNIA

CLIENT AND PROJECT BON241771

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TR 6467
N. CLOVIS AVE. & PERRIN AVE.

SHEET DESCRIPTION

LANDSCAPE SITE PLAN

DATE: 9/2024
SCALE: AS SHOWN
DRAWN:
SHEET:

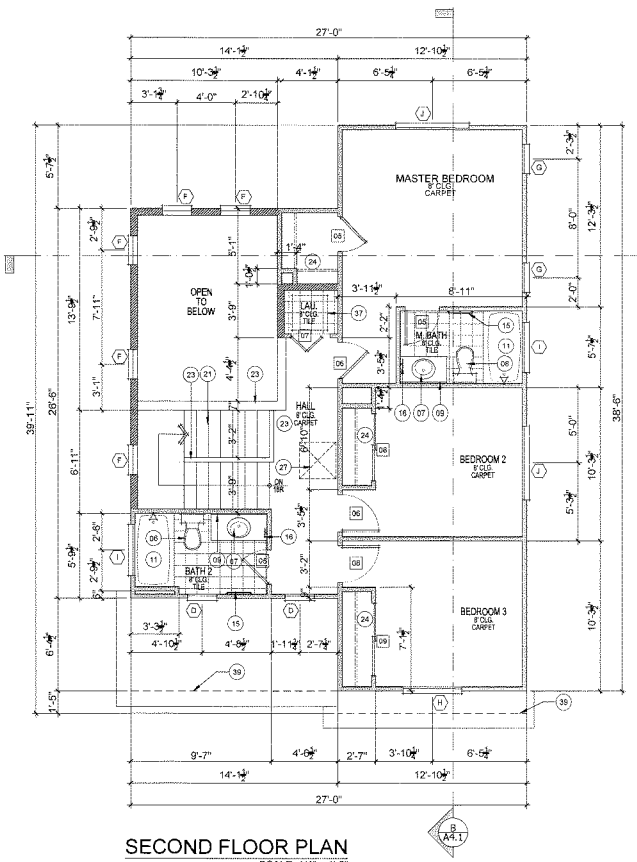
2619

## DOOR SCHEDULE

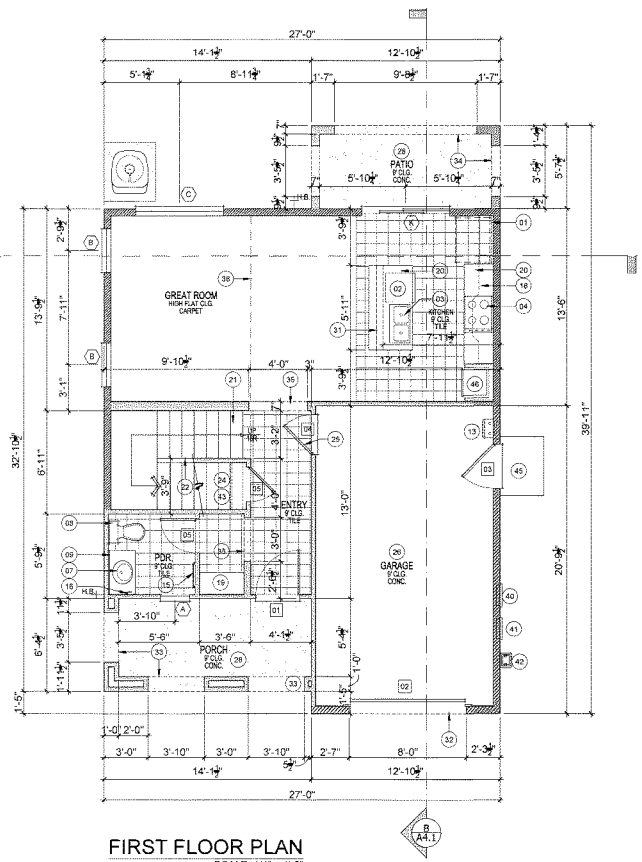
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 8'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/4" THK. SOLID CORE DOOR w/SELF CLOSURE, & SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 2'-6" x 6'-8" | SINGLE | | | |
| 07 | 2'-8" x 6'-8" | BI-FOLD | | | |
| 08 | 4'-6" x 6'-8" | BI-PASS | | | |
| 09 | 5'-0" x 6'-8" | BI-PASS | | | |

## WINDOW SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. |
| B | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 6'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| D | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH |
| E | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | COTTAGE & TUSCAN |
| F | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| G | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| H | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | SPANISH, COTTAGE & TUSCAN |
| I | 3'-6" x 1'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| J | 5'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| K | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |




SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"




FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

## PROJECT DATA

AREAS - RESIDENCE

| | | |
|---|---|---|
| FIRST FLOOR | : | 544 SQ.FT. |
| SECOND FLOOR | : | 665 SQ.FT. |
| TOTAL FLOOR AREA | : | 1209 SQ.FT. |
| GARAGE | : | 272 SQ.FT. |
| PORCH | : | 90 SQ.FT. |
| PATIO | : | 72 SQ.FT. |

**Attachment 6**

## WALL LEGEND

2x4 STD. GRD. STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.

2x6 STD. GRD. STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O.

## FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP w/ HOOD ABV. (MICROW SPECIFICATIONS VERTICAL CLEARAN 30" UNPROTECTED, OR 24" PROTECTE REQUIRED TO BE PER THE PERMANE ANTI-TILT LOCK.
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR A MIN. 4" DIA MOISTER EXHAUST DUCT PER SECTION 504.2. A (14'-0" MAX. RUN PER C.M.C. SECTION 908) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET w/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 OVAL TUB w/12" TILE SPLASH & DECK
11 LASCO MODEL #1024227P FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPARATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE. 72" MIN. O/ USE OF FIBER-CEMENT FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS. w/2'-9" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" TEMP DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK.
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINFT (18" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
22 HANDRAIL / GUARDRAIL - SEE PLAN FOR LOCATION
23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL.
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALL & CEILING.
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL.
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING).
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 1/2".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0"
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 WASHER/DRYER STACK UNIT (N.I.C.) DRYER VENT TO OUTSIDE AIR MIN. 4" DIA. MOISTER EXHAUST DUCT PER SECT. 504.2. A (14'-0" MAX. RUN PER C.M.C. SECT. 908) REFER TO PLUMBING PLANS FOR OPT. GAS. INSTALL DRYER BOX IN WALL FOR VENTING
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF DECK COATING-HILLS BROS. CHEM. CO. 'DESERT-CRETE' ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO# REPORT
45 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BLDG.
46 30" OVEN / MICROWAVE COMBO
47 2x6 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 6x6 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION

## FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUB/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS. WITH MINIMUM 821 SQ.IN. (24" WIDE x 22" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW. THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2006 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL.
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8kBTU/hr (2-kw) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER. AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |

AGENDA ITEM NO. 17.

SPANISH
7030 N. FRUIT AVE. SU
FRESNO, CALIFORNIA 9
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

BONADELLE HOMES INC.
PLAN 1209

REVIEWED FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING

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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS
1 12.2.19 CODE UPDATE
2
3
4
5
6
7

SHEET A1.1

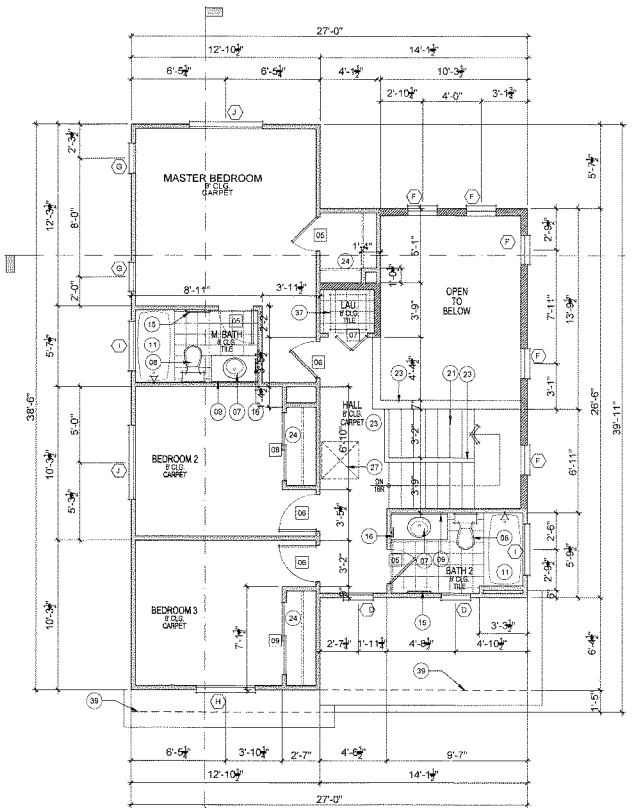
TRACT: RIVERSTONE
HARVEST

## DOOR SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 8'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/4" THK. SOLID CORE DOOR W/SELF CLOSURE, & SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 2'-6" x 6'-8" | SINGLE | | | |
| 07 | 2'-8" x 6'-8" | BI-FOLD | | | |
| 08 | 4'-6" x 6'-8" | BI-PASS | | | |
| 09 | 5'-0" x 6'-8" | BI-PASE | | | |

## WINDOW SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. |
| B | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 6'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| D | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH |
| E | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | COTTAGE & TUSCAN |
| F | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| G | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| H | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | SPANISH, COTTAGE & TUSCAN |
| I | 3'-6" x 1'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| J | 5'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| K | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |

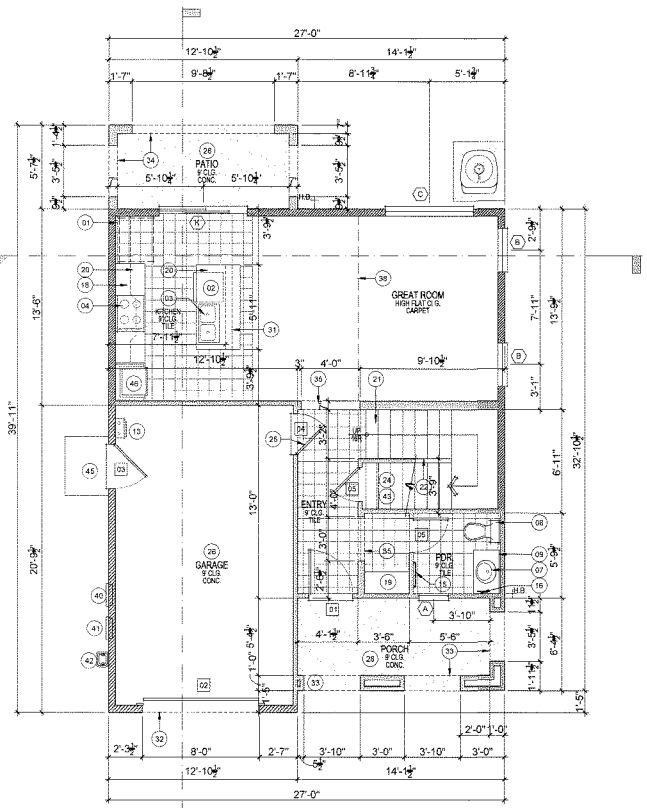



B A4.1

## SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"

A A4.1




B A4.1

## FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

## PROJECT DATA

AREAS - RESIDENCE

| | | |
|---|---|---|
| FIRST FLOOR | : | 544 SQ.FT. |
| SECOND FLOOR | : | 665 SQ.FT. |
| TOTAL FLOOR AREA | : | 1209 SQ.FT. |
| GARAGE | : | 272 SQ.FT. |
| PORCH | : | 90 SQ.FT. |
| PATIO | : | 72 SQ.FT. |

## WALL LEGEND

2x4 STD. GRD. STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.

2x6 STD. GRD. STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O.

## FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP W/ HOOD ABV. (MICROW SPECIFICATIONS VERTICAL CLEARAN 30" UNPROTECTED, OR 24" PROVIDE REQUIRED TO BE PER THE PERMANE ANTI-TILT LOCK
05 WASHER (N.I.C)
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR A MIN. 4" DIA MOISTER EXHAUST DUCT PER SECTION 504.3. A 1'4"-0" MAX. RUN PER C.M.C. SECTION 908) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 OVAL TUB w/12" TILE SPLASH & DECK
11 LASCO MODEL #1024/72P FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPARATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE, 72" MIN. OR USE OF FIBER-CEMENT FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS. w/7'-6" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" TEMP DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET (18" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS. SEE DETAIL 4/D1.2.
22 HANDRAIL / GUARDRAIL - SEE PLAN FOR LOCATION
23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALL & CEILING.
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING).
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 1/2".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 WASHER/DRYER STACK UNIT (N.I.C.) DRYER VENT TO OUTSIDE AIR MIN. 4" DIA. MOISTER EXHAUST DUCT PER SECT. 504.3. A 1'4"-0" MAX. RUN PER C.M.C. SECT. 908) REFER TO PLUMBING PLANS FOR OPT. GAS. INSTALL DRYER BOX IN WALL FOR VENTING
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF DECK COATING-HILLS BROS. CHEM. CO. 'DESERT-CRETE'. ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO® REPORT
45 CONC. STOOP AT GARAGE MAN DOOR - (BRDOM FINISH) SLOPE AWAY FROM BLDG.
46 30" OVEN / MICROWAVE COMBO
47 2x6 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 6x8 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION

## FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM SIZE IN. (24" WIDE x 22" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW. THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2006 OR F 2090, THE GUARD MAY NOT HAVE OPENINGS WHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6 BkBTU/hr (2-kw) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 18.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |

AGENDA ITEM NO. 17.


SPANISH - L
7030 N. FRUIT AVE. SU
FRESNO, CALIFORNIA 93711
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555


BONADELLE HOMES INC.

PLAN 1209

REVIEWED FOR CODE COMPLIANCE

FEB 25 2020

INTERWEST CONSULTING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PLOT DATE: 2.3.20

MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.9.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

SHEET A1.2

TRACT: RIVERSTONE

HARVEST

## DOOR SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 8'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/8" THK. SOLID CORE DOOR W/SELF CLOSURE, & SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 2'-6" x 6'-8" | SINGLE | | | |
| 07 | 2'-8" x 6'-8" | BI-FOLD | | | |
| 08 | 4'-6" x 6'-8" | BI-PASS | | | |
| 09 | 5'-0" x 6'-8" | BI-PASS | | | |

## WINDOW SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. |
| B | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 6'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| D | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH |
| E | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | COTTAGE & TUSCAN |
| F | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| G | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| H | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | SPANISH, COTTAGE & TUSCAN |
| I | 3'-6" x 1'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| J | 5'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| K | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |

## FLOOR KEYNOTES

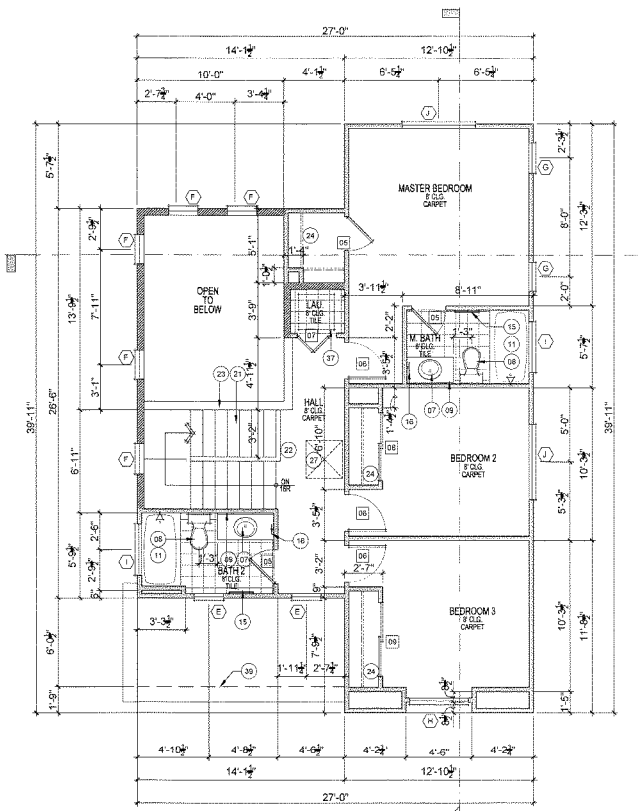
01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP W/ HOOD ABV. (MICROWAVE OVEN SPECIFICATIONS,VERTICAL CLEARANCE ABOVE COOKTOP, 30" UNPROTECTED, OR 24" PROTECTED WITH 1" NON-COMBUSTIBLE MATERIAL REQUIRED TO BE PER THE PERMANENT INSTALLATION INSTRUCTIONS. ANTI-TILT LOCK.
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR & MIN. 4" DIA MASTER EXHAUST DUCT PER SECTION 504.0 A (14'-0" MAX. RUN PER C.M.C. SECTION 908) - PLUMB FOR OPTIONAL GAS INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 OVAL TUB w/12" TILE SPLASH & DECK
11 LASCO MODEL #1024220 FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPARATOR TO BE TEMPERED. SEE OPTIONAL " PLAN.
12 SHOWER W/ TILE, 72" MIN. OVER OF FIBER-CEMENT,FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS . w/2'-0" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" TEMP. DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET (18" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
22 HANDRAIL / GUARDRAIL - SEE PLAN FOR LOCATION
23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL.
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALL & CEILING
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF TIE CEILING SHALL BE INSTALLED ON ACCESS PANEL.
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING).
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 1/2".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 WASHER/DRYER STACK UNIT (N.I.C.) DRYER VENT TO OUTSIDE AIR MIN. 4" DIA. MASTER EXHAUST DUCT PER SECT. 504.0, A (14'-0" MAX. RUN PER C.M.C. SECT. 908) REFER TO PLUMBING PLANS FOR OPT. GAS. INSTALL DRYER BOX IN WALL FOR VENTING
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF DECK COATING-HILL'S BROS. CHEEM. CO. 'DESERT-CRETE' ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO# REPORT
45 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BLDG.
46 30" OVEN / MICROWAVE COMBO
47 2x8 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 8x6 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION

## FLOOR NOTES:

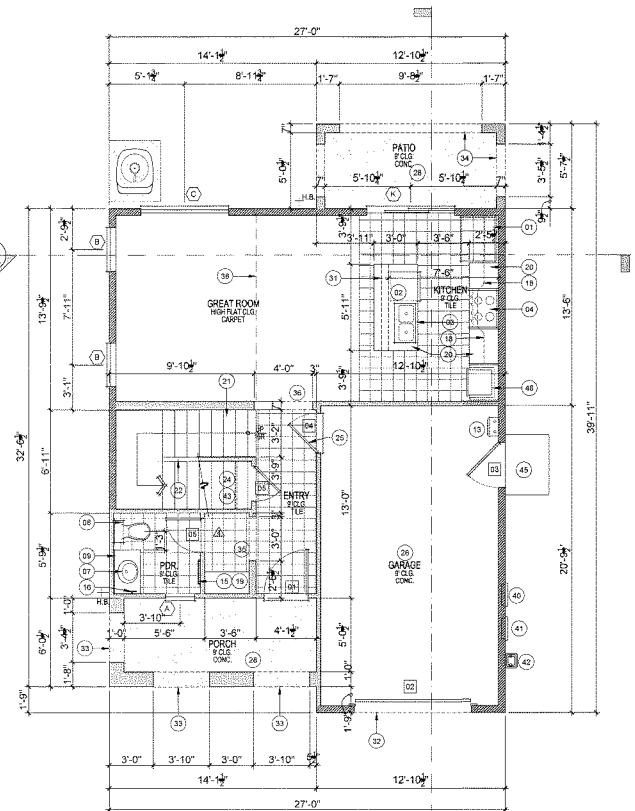
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 821 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION : OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2006 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL.
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8KBTU/hr (2-kw) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 15.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |




SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"




FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

## PROJECT DATA

AREAS - RESIDENCE

| | |
|---|---|
| FIRST FLOOR | 544 SQ.FT. |
| SECOND FLOOR | 665 SQ.FT. |
| TOTAL FLOOR AREA | 1209 SQ.FT. |
| GARAGE | 272 SQ.FT. |
| PORCH | 85 SQ.FT. |
| PATIO | 72 SQ.FT. |

## WALL LEGEND

2x4 STD. GRD STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.
2x6 STD. GRD STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O.

AGENDA ITEM NO. 17.


TUSCAN
7030 N. FRUIT AVE. SU
FRESNO, CALIFORNI
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555


BONADELLE HOMES INC.
PLAN 1209

REVIEWED FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING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PLOT DATE: 2.3.20
MASTER PLAN NO:

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |

SHEET A1.3

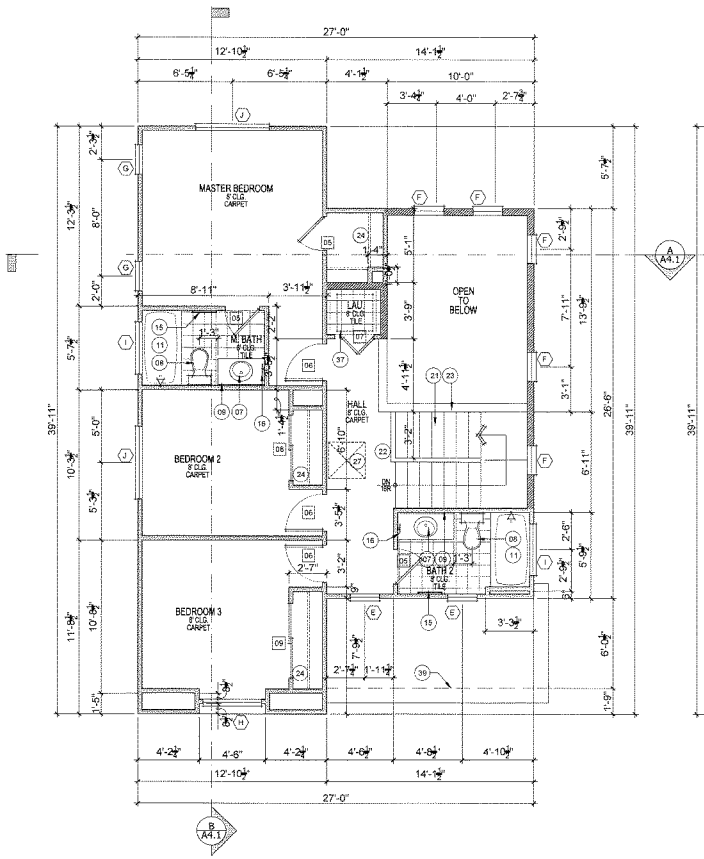
TRACT: RIVERSTONE
HARVEST

## DOOR SCHEDULE

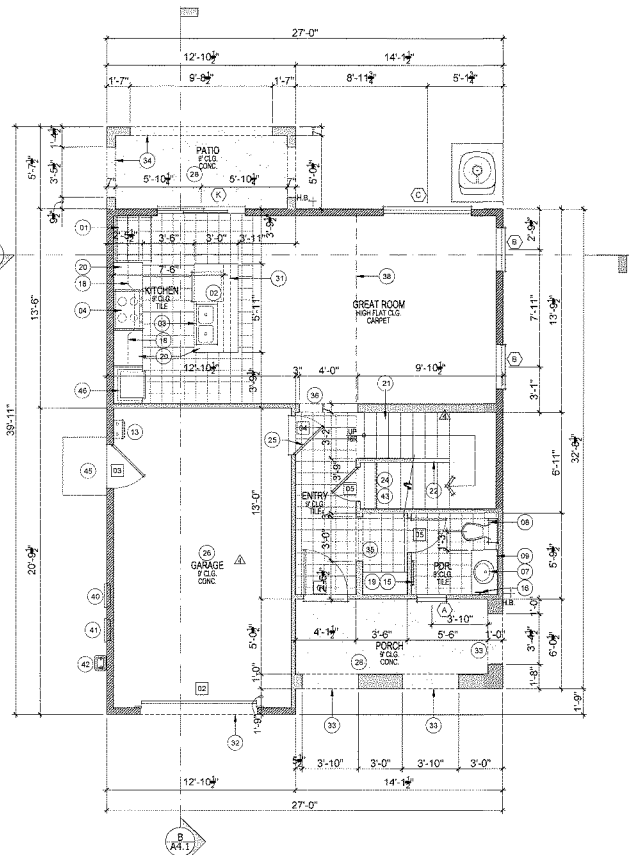
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 6'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/4" THK. SOLID CORE DOOR W/SELF CLOSURE, & SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 2'-6" x 6'-8" | SINGLE | | | |
| 07 | 2'-8" x 6'-8" | BI-FOLD | | | |
| 08 | 4'-6" x 6'-8" | BI-PASS | | | |
| 09 | 5'-0" x 6'-8" | BI-PASS | | | |

## WINDOW SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. |
| B | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 6'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| D | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH |
| E | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | COTTAGE & TUSCAN |
| F | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| G | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| H | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | SPANISH, COTTAGE & TUSCAN |
| I | 3'-6" x 1'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| J | 5'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| K | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |




SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"




FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

## PROJECT DATA

AREAS - RESIDENCE

| | | |
|---|---|---|
| FIRST FLOOR | : | 544 SQ.FT. |
| SECOND FLOOR | : | 665 SQ.FT. |
| TOTAL FLOOR AREA | : | 1209 SQ.FT. |
| GARAGE | : | 272 SQ.FT. |
| PORCH | : | 85 SQ.FT. |
| PATIO | : | 72 SQ.FT. |

## WALL LEGEND

2x4 STD. GRD. STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.

2x6 STD. GRD.STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O

## FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP w/ HOOD ABV. (MICROWAVE OVEN PER MFR SPECIFICATIONS VERTICAL CLEARANCE BETWEEN COOKTOP & 30" UNPROTECTED, OR 24" PROTECTED WITH 30" UNPROTECTED REQUIRED TO BE PER THE PERMANENT LABEL. PROVIDE ANTI-TILT LOCK.
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR A MIN. 4" DIA MOISTER EXHAUST DUCT PER SECTION 504.9. A (14'-0" MAX. RUN PER C.M.C. SECTION 906) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 OVAL TUB w/12" TILE SPLASH & DECK.
11 LASCO MODEL #1024222P FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPARATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE. 72" MIN. OI USE OF FIBER-CEMENT,FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS. W/2'-9" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN.22" TEMP DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET (18" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS. SEE DETAIL 4/D1.2.
22 HANDRAIL / GUARDRAIL - SEE PLAN FOR LOCATION
23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALL & CEILING.
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL.
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING)
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 1/2".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 WASHER/DRYER STACK UNIT (N.I.C.) DRYER VENT TO OUTSIDE AIR MIN. 4" DIA. MOISTER EXHAUST DUCT PER SECT. 504.9. A (14'-0" MAX. RUN PER C.M.C. SECT. 906) REFER TO PLUMBING PLANS FOR OPT. GAS. INSTALL DRYER BOX IN WALL FOR VENTING
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS
44 WATERPROOF DECK COATING-HILLS BROS. CHECM. CO. 'DESERT-CRETE'; ICBO#1635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO# REPORT
45 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BLDG.
46 30" OVEN / MICROWAVE COMBO
47 2x6 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 6x8 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION

## FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 821 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2006 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8kBTU/hr (2-kw) SHALL HAVE ISOLATION VALVES ON BOTH COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |

AGENDA ITEM NO. 17.


TUSCAN - LE
7030 N. FRUIT AVE. SU
FRESNO, CALIFORNIA 93
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555


BONADELLE HOMES INC.
PLAN 1209

REVIEWED FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING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PLOT DATE: 2.3.20
MASTER PLAN NO. -

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

SHEET A1.4

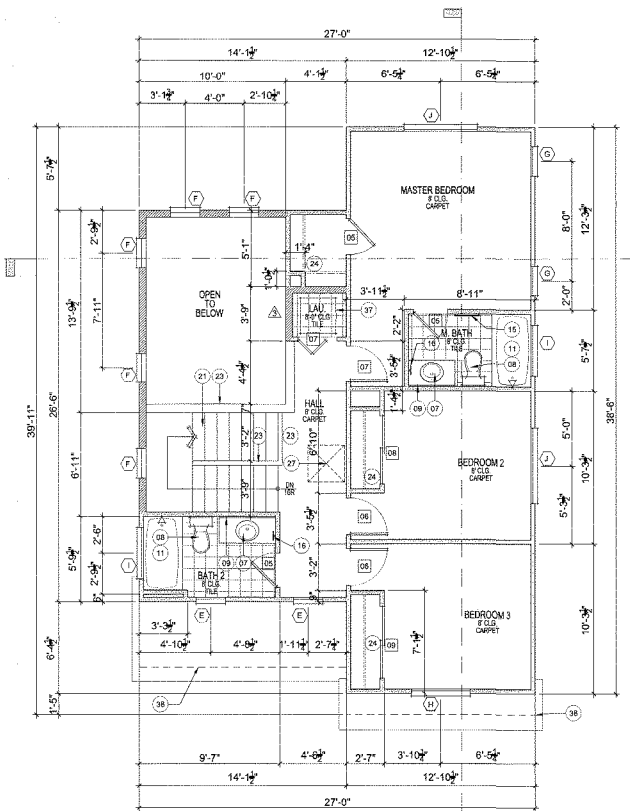
TRACT KINGSTONE
HARVEST

## DOOR SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 8'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/4" THK. SOLID CORE DOOR W/SELF CLOSURE, & SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 2'-6" x 6'-8" | SINGLE | | | |
| 07 | 2'-8" x 6'-8" | BI-FOLD | | | |
| 08 | 4'-6" x 6'-8" | BI-PASS | | | |
| 09 | 5'-0" x 6'-8" | BI-PASS | | | |

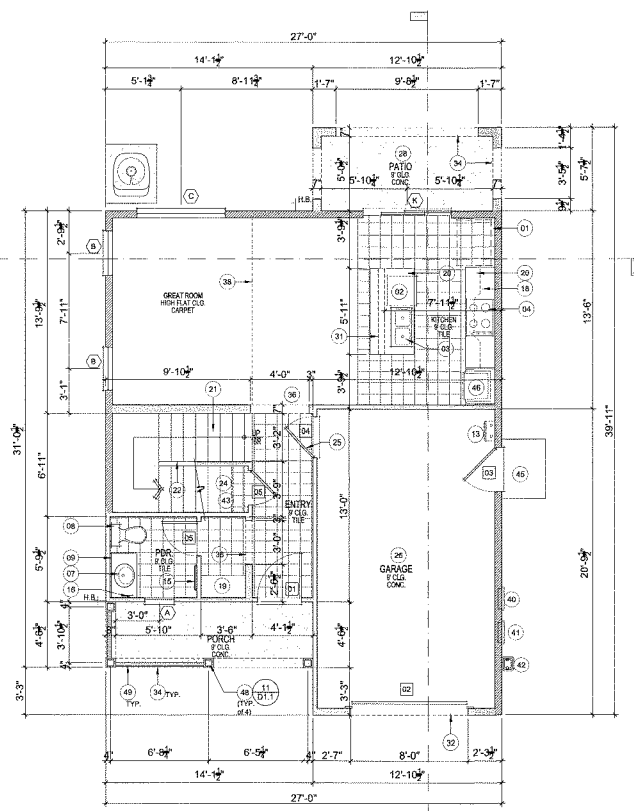
## WINDOW SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. |
| B | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 6'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| D | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH |
| E | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | COTTAGE & TUSCAN |
| F | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| G | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| H | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | SPANISH, COTTAGE & TUSCAN |
| I | 3'-6" x 1'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| J | 5'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| K | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |




## SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"




## FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

## PROJECT DATA

| AREAS - RESIDENCE | | |
|---|---|---|
| FIRST FLOOR | : | 544 SQ.FT. |
| SECOND FLOOR | : | 685 SQ.FT. |
| TOTAL FLOOR AREA | : | 1209 SQ.FT. |
| GARAGE | : | 272 SQ.FT. |
| PORCH | : | 64 SQ.FT. |
| PATIO | : | 72 SQ.FT. |

## WALL LEGEND

2x4 STD. GRD. STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.

2x6 STD. GRD.STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O.

## FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP w/ HOOD ABV. (MICRO SPECIFICATIONS, VERTICAL CLEARA 30" UNPROTECTED, OR 24" PROTEC REQUIRED TO BE PER THE PERMAN ANTI-TILT LOCK.
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR A MIN. 4" DIA MOISTER EXHAUST DUCT PER SECTION 504.0. A (14'-0" MAX. RUN PER C.M.C. SECTION 906) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 OVAL TUB w/12" TILE SPLASH & DECK
11 LASCO MODEL #1924222 FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPARATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE 72" MIN. O/ USE OF FIBER-CEMENT,FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS. w/2'-0" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" TEMP DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.85 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET (18" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
22 HANDRAIL / GUARDRAIL - SEE PLAN FOR LOCATION
23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL.
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28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING).
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 1/2".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 WASHER/DRYER STACK UNIT (N.I.C.) DRYER VENT TO OUTSIDE AIR MIN. 4" DIA. MOISTER EXHAUST DUCT PER SEECT. 504.0 (A (14'-0" MAX. RUN PER C.M.C. SECT. 906) REFER TO PLUMBING PLANS FOR OPT. GAS. INSTALL DRYER BOX IN WALL FOR VENTING
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF DECK COATING-HILLS BROS. CHEMCAL CO. "DESERT-CRETE", ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO# REPORT
45 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BLDG.
46 30" OVEN / MICROWAVE COMBO
47 2x6 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 6x6 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION

## FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUB/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 821 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2090 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8kBTU/hr (2-kw) SHALL HAVE ISOLATION VALVES ON THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY | PRIOR TO FINAL INSPECTION |

AGENDA ITEM NO. 17.


COTTAGE
7030 N. FRUIT AVE. SUITE 101
FRESNO, CALIFORNIA 93711
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 922555


BONADELLE HOMES INC.
PLAN 1209

REVIEWED FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING


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PLOT DATE: 2.13.20
MASTER PLAN NO. -

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |

SHEET A1.5

TRACT: RIVERSTONE
HARVEST

## DOOR SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 8'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/8" THK. SOLID CORE DOOR w/SELF CLOSURE, & SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 2'-6" x 6'-8" | SINGLE | | | |
| 07 | 2'-8" x 6'-8" | BI-FOLD | | | |
| 08 | 4'-6" x 6'-8" | BI-PASS | | | |
| 09 | 5'-0" x 6'-8" | BI-PASS | | | |

## WINDOW SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. |
| B | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 6'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| D | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH |
| E | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | COTTAGE & TUSCAN |
| F | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| G | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| H | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | SPANISH, COTTAGE & TUSCAN |
| I | 3'-6" x 1'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| J | 5'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| K | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |

## FLOOR KEYNOTES

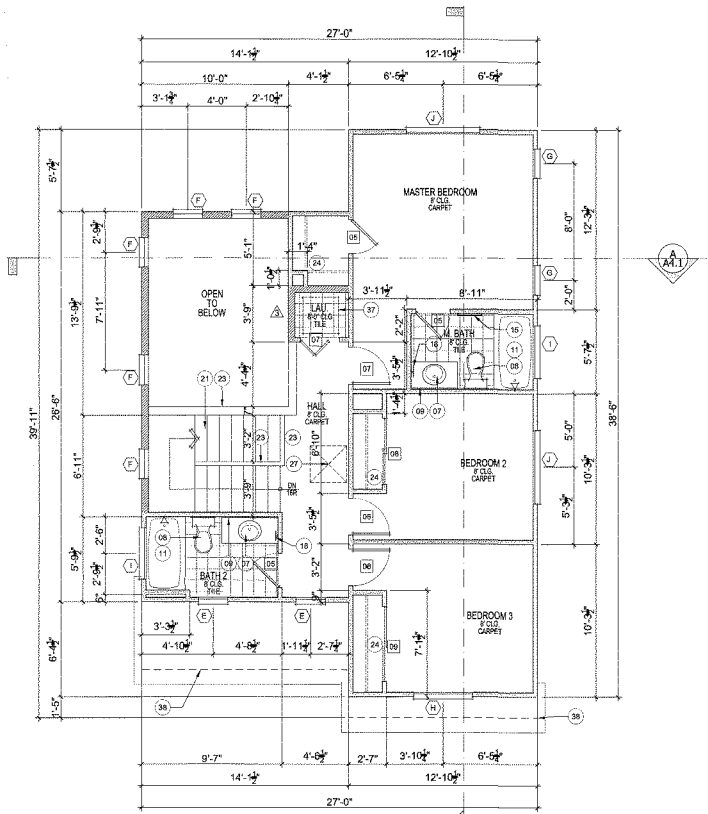
01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP w/ HOOD ABV. (MICRO SPECIFICATIONS,VERTICAL CLEARA 30" UNPROTECTED, OR 24" PROTEC REQUIRED TO BE PER THE PERMAN ANTI-TILT LOCK
05 WASHER (N.I.C).
06 DRYER (N.I.C ) - VENT TO OUTSIDE AIR A MIN. 4" DIA MOISTER EXHAUST DUCT PER SECTION 504.0. A (14'-0" MAX. RUN PER C.M.C. SECTION 506) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 OVAL TUB w/12" TILE SPLASH & DECK
11 LASCO MODEL #1024222P FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPARATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE. 72" MIN. OVER TILE OF FIBER-CEMENT,FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYP BOARD BACKERS. 72" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" TEMP DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET (18" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
22 HANDRAIL / GUARDRAIL - SEE PLAN FOR LOCATION
23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL.
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALL & CEILING.
27 30"X30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING)
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 1/2".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 WASHER/DRYER STACK UNIT (N.I.C.) DRYER VENT TO OUTSIDE AIR MIN. 4" DIA. MOISTER EXHAUST DUCT PER SECT. 504.0. A (14'-0" MAX. RUN PER C.M.C. SECT. 506) REFER TO PLUMBING PLANS FOR OPT. GAS. INSTALL DRYER BOX IN WALL FOR VENTING
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF DECK COATING-HILLS BROS. CHECM. CO. 'DIERERT-CRETE' ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO# REPORT
45 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BLDG.
46 30" OVEN / MICROWAVE COMBO
47 2x6 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 6x6 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION

## FLOOR NOTES:

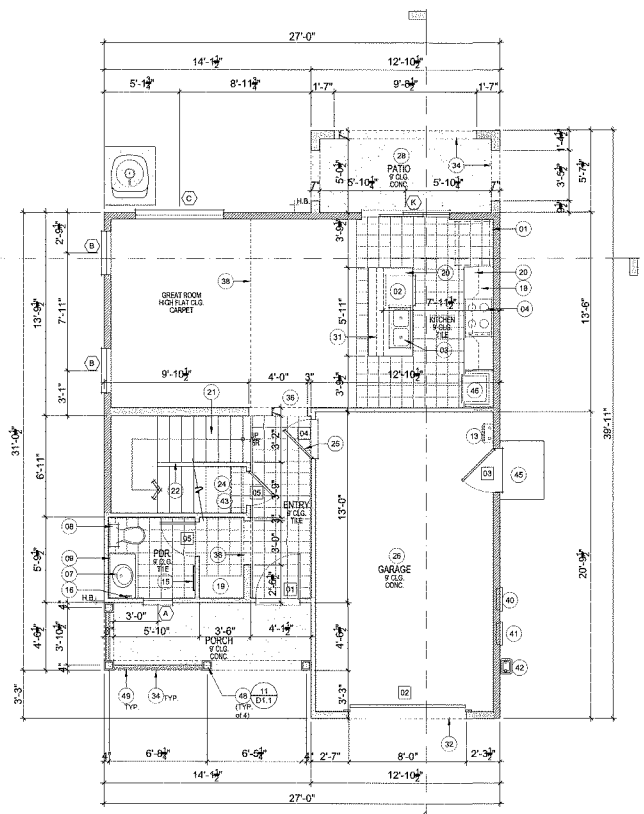
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 821 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2090 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8kBTU/hr (2 kw) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY | PRIOR TO FINAL INSPECTION |




SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"




FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

## PROJECT DATA

AREAS - RESIDENCE

| | | |
|---|---|---|
| FIRST FLOOR | : | 544 SQ.FT. |
| SECOND FLOOR | : | 685 SQ.FT. |
| TOTAL FLOOR AREA | : | 1209 SQ.FT. |
| GARAGE | : | 272 SQ.FT. |
| PORCH | : | 64 SQ.FT. |
| PATIO | : | 72 SQ.FT. |

## WALL LEGEND

2x4 STD. GRD. STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.
2x6 STD. GRD.STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O.

AGENDA ITEM NO. 17.


COTTAGE - I
7030 N. FRUIT AVE. SU
FRESNO , CALIFORNIA 93711
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555


BONADELLE HOMES INC.
PLAN 1209

REVIEWED FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING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PLOT DATE: 2.13.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
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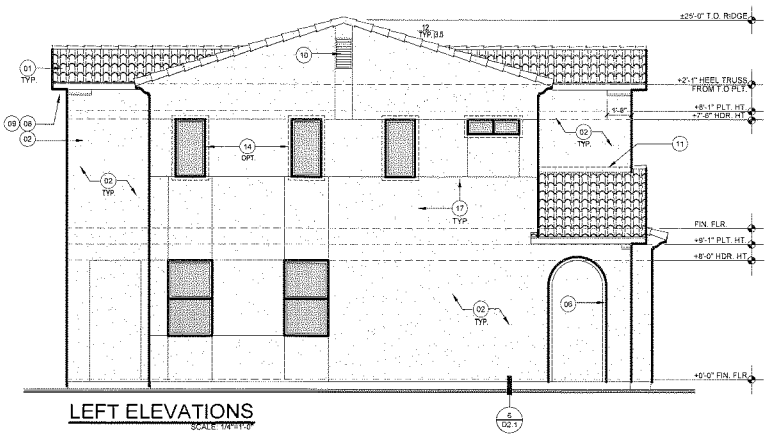
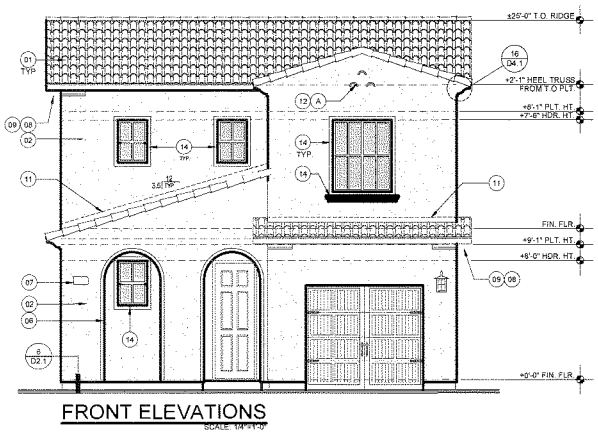
SHEET A1.6

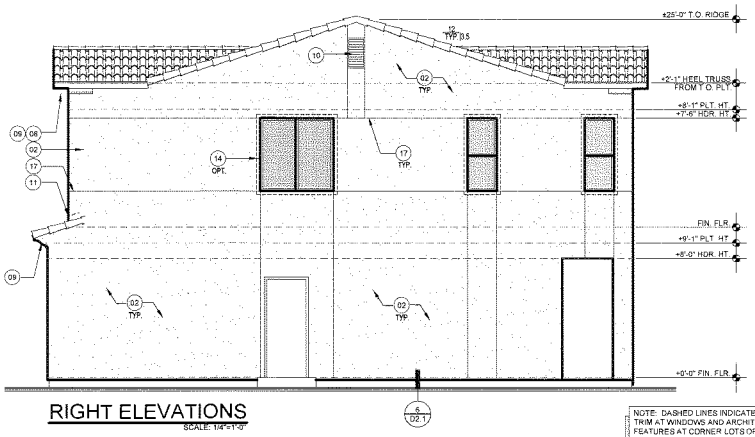
TRACT: RIVERSTONE
HARVEST



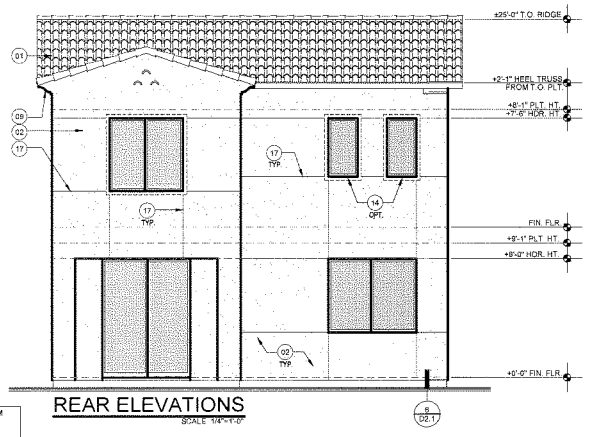

LEFT ELEVATIONS
SCALE: 1/4"=1'-0"




FRONT ELEVATIONS
SCALE: 1/4"=1'-0"

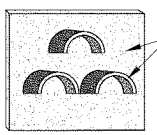



RIGHT ELEVATIONS
SCALE: 1/4"=1'-0"




REAR ELEVATIONS
SCALE: 1/4"=1'-0"

NOTE: DASHED LINES INDICATE OPT. FOAM TRIM AT WINDOWS AND ARCHITECTURAL FEATURES AT CORNER LOTS OR LOTS ADJACENT MAIN STREET. REFER TO PLOT PLANS TO IDENTIFY LOTS.




(A) ARCHITECTURAL FEATURE
SCALE: N.T.S.

## ELEVATION KEYNOTES

01 TILE ROOF MATERIAL. ICC # ESR 1547 OR EQUAL TO COMPLY WITH 2019 CRC R904, R905 SEE ROOF FRAMING PLAN
02 2-COAT CEMENT PLASTER 0'5" THK. FOAM w/ (2) LAYER GRADE "D" PAPER UNDER THE CEMENTPLASTER. COVERING WHEN APPLIED OVER WOOD SHEATHING w/ LATH AND WEEP SCREED APPLY CEMENT PLAS[illegible] CEILINGS, OVERHANGS, AND OTHER E[illegible]
03 ICC ESR#2586 APPROVED THERMAL B[illegible] SYSTEM AT EXPOSED GABLE END AT[illegible] EO
04 MANUFACTURED STONE VENEER ELDORADO STONE, VENESET, LIGHTWE[illegible] IRON OXIDES. CODE CERTIFICATION: ESR-1215 FAMA MATERIAL RELEASE #910 UNDERWRITER'S LABORATORIES CLASSIFICATION #2467. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH w/ ONE PART TYPE "M" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT.
05 1x LAP SIDING @15# BUILDING PAPER INSTALLED PER MANUFACTURER'S SPECIFICATIONS
06 DECORATIVE PRE-CAST SURROUND. INSTALL PER MANUFACTURE'S SPECIFICATIONS
07 ILLUMINATED ADDRESS LOCATION
08 2x6 FASCIA / BARGE BD. (TYP.)
09 12" OVERHANG U.N.O.
10 GABLE END VENT - SEE ROOF FRAMING PLAN FOR VENTING CALCS
11 G.I. SHEET METAL FLASHING AND COUNTER FLASHING AS REQUIRED (2019 CRC 1503.2)
12 DECORATIVE (3) 4"x6"x4" DP. ARCHITECTURAL FOAM FEATURES
13 DECORATIVE SHUTTERS TYPICAL
14 FOAM w/ STUCCO FINISH
15 2x4 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR/WINDOW OPENING
16 2x8 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR
17 1/2" EXPANSION JOINTS INSTALLED @ TIME OF LATH
18 +42" WD. GUARDRAIL - PER PLAN
19 WROUGHT IRON DECORATIVE FEATURE - INSTALLED PER MANUFACTURER'S SPECIFICATIONS
20 6x6 D.F. RE-SAWN POST
21 +42" W.I. GUARDRAIL - PER PLAN

## RADIANT BARRIERS

01 RADIANT BARRIERS: LOUISIANA PACIFIC TECHSHIELD, CALIFORNIA DEPARTMENT OF CONSUMER AFFAIRS CERTIFIED #CA-TS70.
02 THE RADIANT BARRIER MUST HAVE AN EMISSIVITY OF 0.05 OR LESS. RADIANT BARRIER MUST BE INSTALLED TO COVER ROOF RAFTERS, TRUSSES, GABLE END WALLS, ALL VERTICAL ATTIC SURFACES AND MUST MEET ATTIC VENTILATION CRITERIA
03 THE ATTIC VENTILATION SHALL BE INCREASED TO 1/300 OF ATTIC AREA WITH HIGH/LOW VENTILATION.
04 ICBO APPROVED THERMAL BARRIER PROTECTION BEHIND ONE COAT STUCCO SYSTEM AT EXPOSED GABLE END ATTIC SPACE OR 1/2" SHEET ROCK (2019 CBC 2602.4)

## ELEVATION NOTES

1 CONTRACTOR TO PROVIDE ADDITIONAL STUCCO JOINTS AS NEEDED TO MINIMIZE CRACKING.
2 PROVIDE G.I. SHEET METAL FLASHING AND COUNTER-FLASHING AS REQUIRED COMPLY TO 2019 CRC
3 ALL WINDOWS TO BE DUAL GLAZED VINYL "LOW-E" w/ FINISH PER DEVELOPER - PROVIDE MUNTINS AS SHOWN.
4 PROVIDE FOAM TRIM AT ALL WINDOWS AND ANY ARCHITECTURAL FEATURES TO MATCH THE FRONT ON CORNER LOTS OR LOTS ADJACENT THE MAIN STREET. REFER TO PLOT PLANS TO IDENTIFY WHICH LOTS.

REVIEWED
FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING

AGENDA ITEM NO. 17.

SPANISH
7030 N. FRUIT AVE. SU[illegible]
FRESNO, CALIFORNI[illegible]
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

BONADELLE HOMES INC.
PLAN 1209

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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
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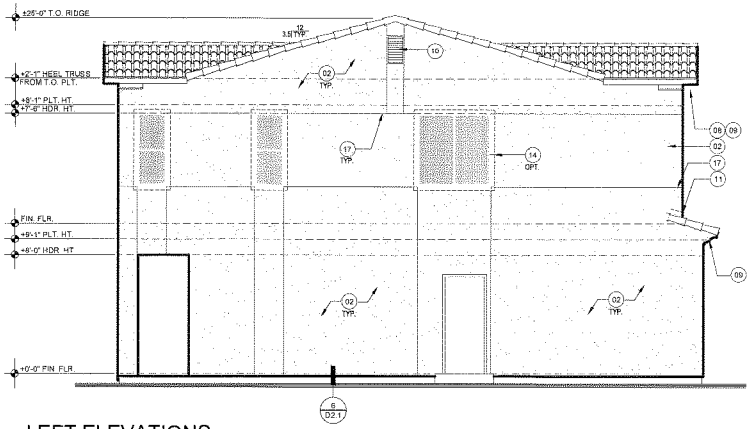
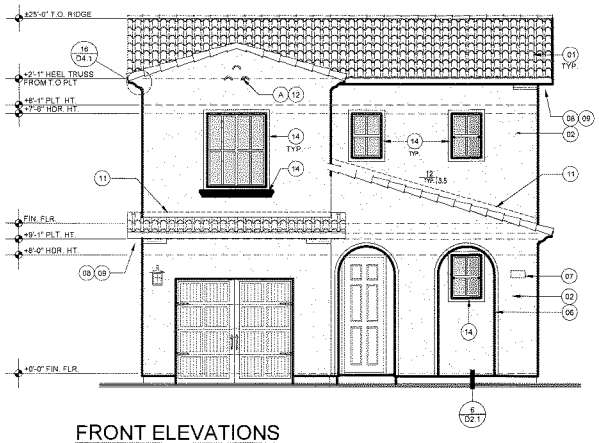
SHEET A3.1

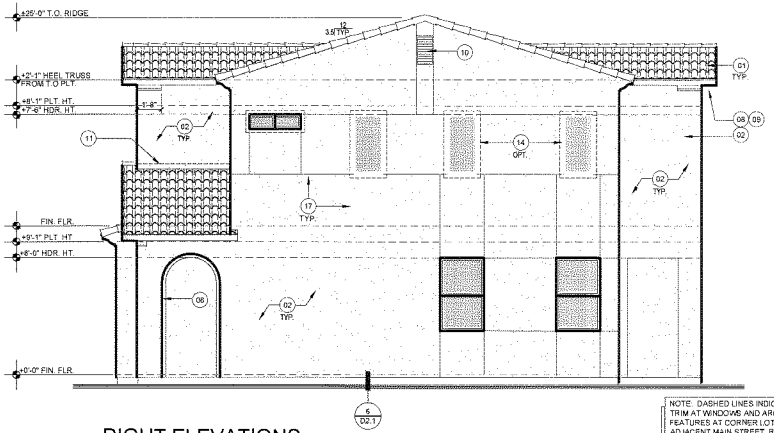
TRACT: RIVERSTONE
HARVEST




## LEFT ELEVATIONS
SCALE: 1/4"=1'-0"

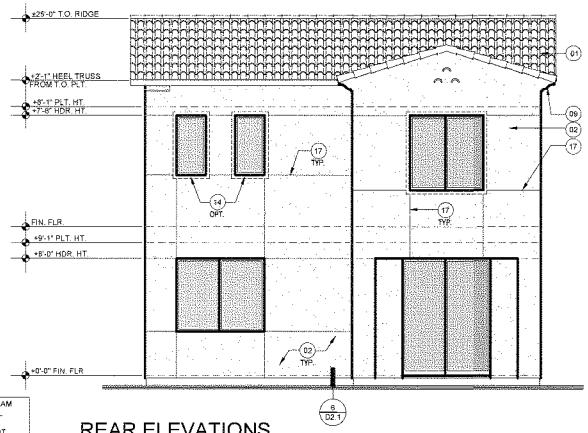



## FRONT ELEVATIONS
SCALE: 1/4"=1'-0"

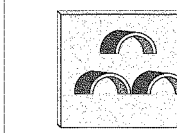



## RIGHT ELEVATIONS
SCALE: 1/4"=1'-0"

NOTE: DASHED LINES INDICATE OPT. FOAM TRIM AT WINDOWS AND ARCHITECTURAL FEATURES AT CORNER LOTS OR LOTS ADJACENT MAIN STREET. REFER TO PLOT PLANS TO IDENTIFY LOTS




## REAR ELEVATIONS
SCALE: 1/4"=1'-0"




Ⓐ ARCHITECTURAL FEATURE
SCALE : N.T.S.

## ELEVATION KEYNOTES

| | |
|---|---|
| 01 | TILE ROOF MATERIAL ICC # ESR 1647 OR EQUAL TO COMPLY WITH 2019 CRC R904, R905 SEE ROOF FRAMING PLAN |
| 02 | 2-COAT CEMENT PLASTER o/1" THK. FOAM w/ (2) LAYER GRADE "D" PAPER UNDER THE CEMENT PLASTER COVERING WHEN APPLICABLE. WEEP SCREED. APPLY CEMENT PLASTER TO EAVES, CEILINGS, OVERHANGS, AND OTHER |
| 03 | ICC ESR#2586 APPROVED THERMAL B SYSTEM AT EXPOSED GABLE END AT EQ |
| 04 | MANUFACTURED STONE VENEER ELDORADO STONE VENEER: LIGHTW FROM DIVERSIFIED. CODE CERTIFICATION: ESR-1215 FAVA MATERIAL RELEASE #910 UNDERWRITER'S LABORATORIES CLASSIFICATION #5467. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH w/ ONE PART TYPE "M" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT |
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| 07 | ILLUMINATED ADDRESS LOCATION |
| 08 | 2x6 FASCIA / BARGE BD. (TYP.) |
| 09 | 12" OVERHANG U.N.O. |
| 10 | GABLE END VENT - SEE ROOF FRAMING PLAN FOR VENTING CALCS |
| 11 | G.I. SHEET METAL FLASHING AND COUNTER FLASHING AS REQUIRED (2019 CRC 1502.2) |
| 12 | DECORATIVE (3) 4"x6"x4" DP. ARCHITECTURAL FOAM FEATURES |
| 13 | DECORATIVE SHUTTERS TYPICAL |
| 14 | FOAM w/ STUCCO FINISH |
| 15 | 2x4 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR/WINDOW OPENING |
| 16 | 2x8 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR |
| 17 | 1/2" EXPANSION JOINTS INSTALLED @ TIME OF LATH |
| 18 | +42" WD. GUARDRAIL - PER PLAN |
| 19 | WROUGHT IRON DECORATIVE FEATURE - INSTALLED PER MANUFACTURER'S SPECIFICATIONS |
| 20 | 6x6 D.F. RE-SAWN POST |
| 21 | +42" W.I. GUARDRAIL - PER PLAN |

REVIEWED
FOR CODE COMPLIANCE
FEB 25 2026
INTERWEST CONSULTING

## RADIANT BARRIERS

| | |
|---|---|
| 01 | RADIANT BARRIERS - LOUISIANA PACIFIC TECHSHIELD, CALIFORNIA DEPARTMENT OF CONSUMER AFFAIRS CERTIFIED #CA-T370. |
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| 03 | THE ATTIC VENTILATION SHALL BE INCREASED TO 1/300 OF ATTIC AREA WITH HIGH/LOW VENTILATION. |
| 04 | ICBO APPROVED THERMAL BARRIER PROTECTION BEHIND ONE COAT STUCCO SYSTEM AT EXPOSED GABLE END ATTIC SPACE OR 1/2" SHEET ROCK (2019 CBC 2602.4) |

## ELEVATION NOTES

1. CONTRACTOR TO PROVIDE ADDITIONAL STUCCO JOINTS AS NEEDED TO MINIMIZE CRACKING.
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3. ALL WINDOWS TO BE DUAL GLAZED VINYL "LOW-E" w/ FINISH PER DEVELOPER - PROVIDE MUNTINS AS SHOWN.
4. PROVIDE FOAM TRIM AT ALL WINDOWS AND ANY ARCHITECTURAL FEATURES TO MATCH THE FRONT ON CORNER LOTS OR LOTS ADJACENT THE MAIN STREET REFER TO PLOT PLANS TO IDENTIFY WHICH LOTS

AGENDA ITEM NO. 17.

SPANISH-LE
7030 N. FRUIT AVE. S
FRESNO , CALIFORN
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

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PLAN 1209

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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
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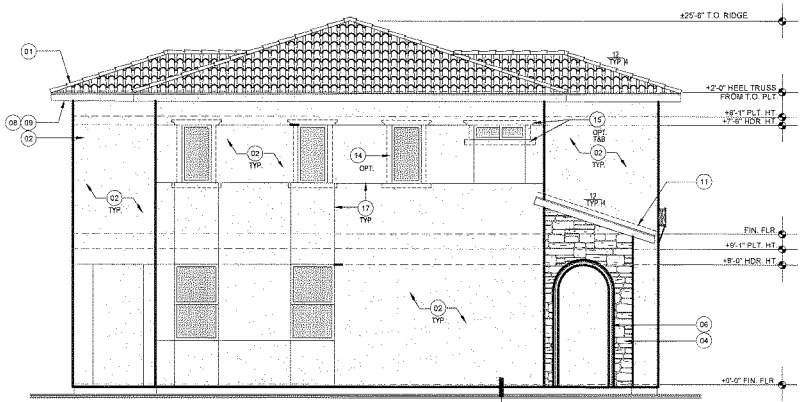
SHEET A3.2

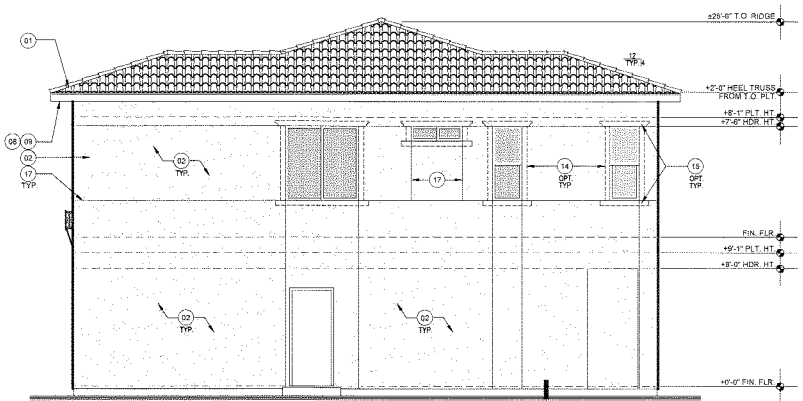
TRACT: RIVERSTONE
HARVEST




LEFT ELEVATIONS
SCALE: 1/4"=1'-0"

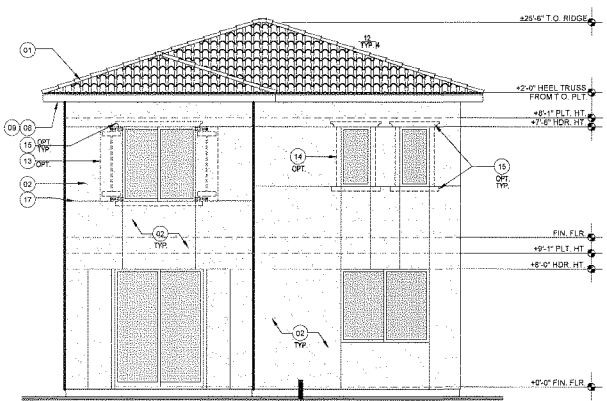



FRONT ELEVATIONS
SCALE: 1/4"=1'-0"

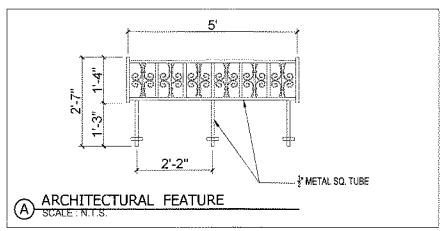



RIGHT ELEVATIONS
SCALE: 1/4"=1'-0"

NOTE: DASHED LINES INDICATE OPT. FOAM TRIM AT WINDOWS AND ARCHITECTURAL FEATURES AT CORNER LOTS OR LOTS ADJACENT MAIN STREET. REFER TO PLOT PLANS TO IDENTIFY LOTS




REAR ELEVATIONS
SCALE: 1/4"=1'-0"




A ARCHITECTURAL FEATURE
SCALE: N.T.S.

## ELEVATION KEYNOTES

01 TILE ROOF MATERIAL ICC # ESR 1647 OR EQUAL TO COMPLY WITH 2019 CRC R904, R905 SEE ROOF FRAMING PLAN
02 2-COAT CEMENT PLASTER @1" THK. FOAM w/ (2) LAYER GRADE "D" PAPER UNDER THE CEMENTPLASTER COVERING WHEN APPLICABLE. AT WEEP SCREED APPLY CEMENT PLASTER TO CEILINGS, OVERHANGS, AND OTHER
03 ICC ESR2586 APPROVED THERMAL BARRIER SYSTEM AT EXPOSED GABLE END ATTIC SPACE OR EQ.
04 MANUFACTURED STONE VENEER. ELDORADO STONE VENEER, LIGHTWEIGHT [illegible] IRON OXIDES. CODE CERTIFICATION: ESR-1215 FAVA MATERIAL RELEASE #910. UNDERWRITER'S LABORATORIES CLASSIFICATION #5467. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH w/ ONE PART TYPE "M" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT.
05 1x LAP SIDING o/15# BUILDING PAPER INSTALLED PER MANUFACTURERS SPECIFICATIONS
06 DECORATIVE PRE-CAST SURROUND. INSTALL PER MANUFACTURE'S SPECIFICATIONS
07 ILLUMINATED ADDRESS LOCATION
08 2x6 FASCIA / BARGE BD. (TYP.)
09 12" OVERHANG U.N.O.
10 GABLE END VENT - SEE ROOF FRAMING PLAN FOR VENTING CALCS
11 G.I. SHEET METAL FLASHING AND COUNTER FLASHING AS REQUIRED (2019 CRC 1503.2)
12 DECORATIVE (3) 4"x8"x4" DP. ARCHITECTURAL FOAM FEATURES
13 DECORATIVE SHUTTERS TYPICAL
14 FOAM w/ STUCCO FINISH
15 2x4 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR/WINDOW OPENING
16 2x8 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR
17 1/2" EXPANSION JOINTS INSTALLED @ TIME OF LATH
18 +42" WD. GUARDRAIL - PER PLAN
19 WROUGHT IRON DECORATIVE FEATURE - INSTALLED PER MANUFACTURER'S SPECIFICATIONS
20 6x6 D.F. RE-SAWN POST
21 +42" W.I. GUARDRAIL - PER PLAN

REVIEWED
FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING

## RADIANT BARRIERS

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03 THE ATTIC VENTILATION SHALL BE INCREASED TO 1/300 OF ATTIC AREA WITH HIGH/LOW VENTILATION.
04 ICBO APPROVED THERMAL BARRIER PROTECTION BEHIND ONE COAT STUCCO SYSTEM AT EXPOSED GABLE END ATTIC SPACE OR 1/2" SHEET ROCK (2019 CBC 2602.4)

## ELEVATION NOTES

1 CONTRACTOR TO PROVIDE ADDITIONAL STUCCO JOINTS AS NEEDED TO MINIMIZE CRACKING.
2 PROVIDE G.I. SHEET METAL FLASHING AND COUNTER-FLASHING AS REQUIRED COMPLY TO 2019 CRC
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4 PROVIDE FOAM TRIM AT ALL WINDOWS AND ANY ARCHITECTURAL FEATURES TO MATCH THE FRONT ON CORNER LOTS OR LOTS ADJACENT THE MAIN STREET. REFER TO PLOT PLANS TO IDENTIFY WHICH LOTS

AGENDA ITEM NO. 17.

TUSCAN
7030 N. FRUIT AVE. SUITE 101
FRESNO, CALIFORNIA 93711
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

BONADELLE HOMES INC.
PLAN 1209

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PLOT DATE: 2.3.20
MASTER PLAN NO.
-

REVISIONS

| | DATE | CODE UPDATE |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
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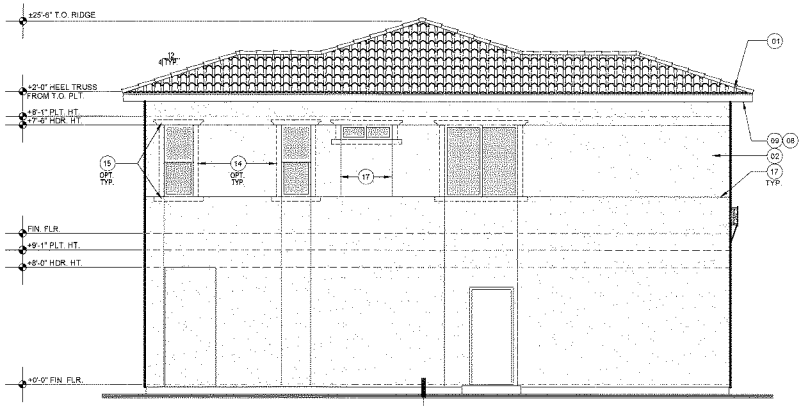
| 6 | | |
| 7 | | |

SHEET A3.3

TRACT #'S 6205 HARVEST



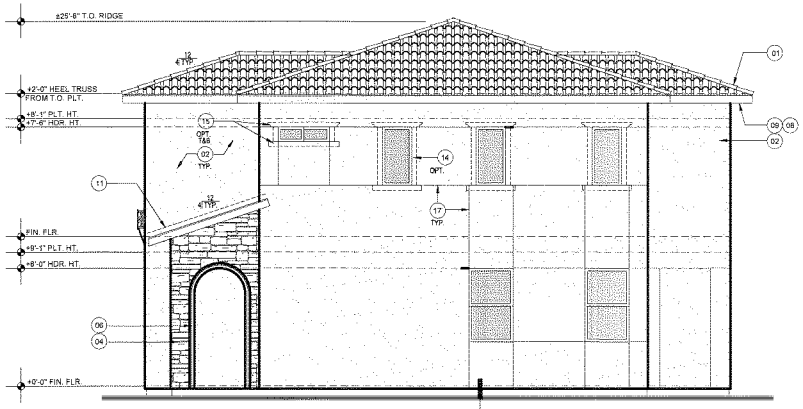

## LEFT ELEVATIONS

SCALE: 1/4"=1'-0"



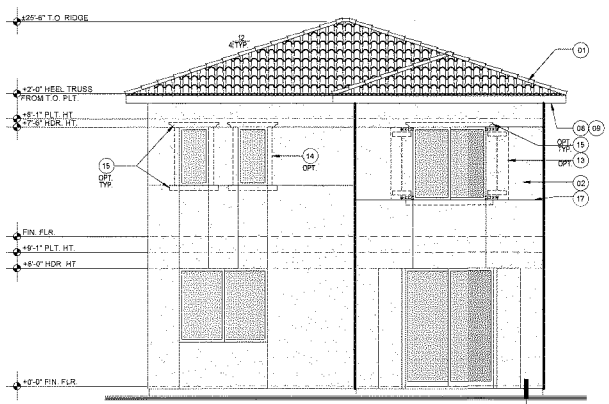

## FRONT ELEVATIONS

SCALE: 1/4"=1'-0"




## RIGHT ELEVATIONS

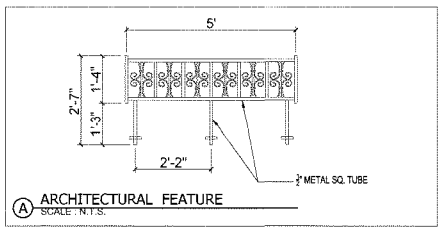
SCALE: 1/4"=1'-0"




## REAR ELEVATIONS

SCALE: 1/4"=1'-0"

NOTE: DASHED LINES INDICATE OPT. FOAM TRIM AT WINDOWS AND ARCHITECTURAL FEATURES AT CORNER LOTS OR LOTS ADJACENT MAIN STREET. REFER TO PLOT PLANS TO IDENTIFY LOTS




A ARCHITECTURAL FEATURE

SCALE: N.T.S.

## ELEVATION KEYNOTES

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03 ICC ESR#2568 APPROVED THERMAL BARRIER PROTECTION BEHIND ONE COAT STUCCO SYSTEM AT EXPOSED GABLE END ATTIC SPACE OR 1/2" SHEET ROCK (2019 CBC 2602.4)

04 MANUFACTURED STONE VENEER: ELDORADO STONE VENEER LIGHTWEIGHT IRON OXIDES. CODE CERTIFICATION: ESR-1219 FAVA MATERIAL RELEASE #910 UNDERWRITER'S LABORATORIES CLASSIFICATION #5481. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH w/ ONE PART TYPE "M" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT.

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REVIEWED
FOR CODE COMPLIANCE

FEB 25 2020

INTERWEST CONSULTING

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AGENDA ITEM NO. 17.

TUSCAN - L
7030 N. FRUIT AVE. S
FRESNO , CALIFORN
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

BONADELLE HOMES INC.

PLAN 1209

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PLOT DATE: 2.3.20

MASTER PLAN NO:

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
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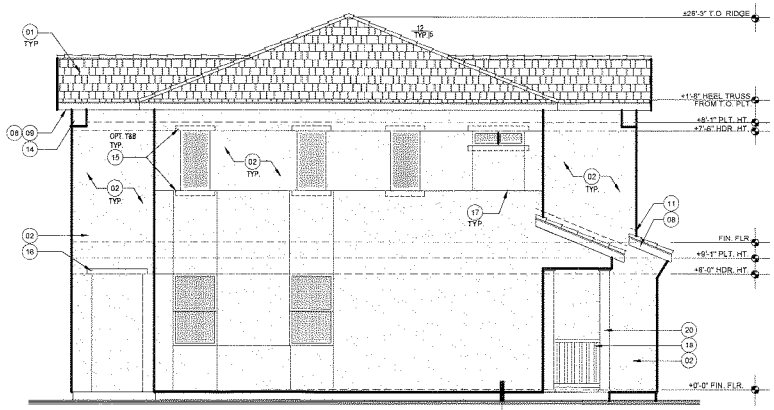
| 7 | | |

SHEET A3.4

TRACT: RIVERSTONE

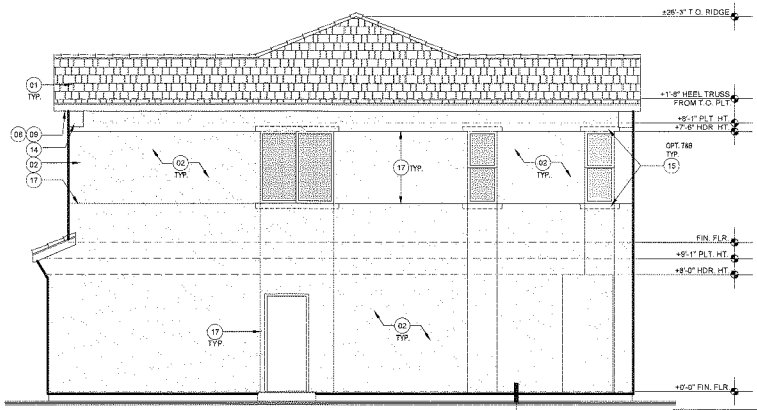
HARVEST




LEFT ELEVATIONS
SCALE: 1/4"=1'-0"




FRONT ELEVATIONS
SCALE: 1/4"=1'-0"




RIGHT ELEVATIONS
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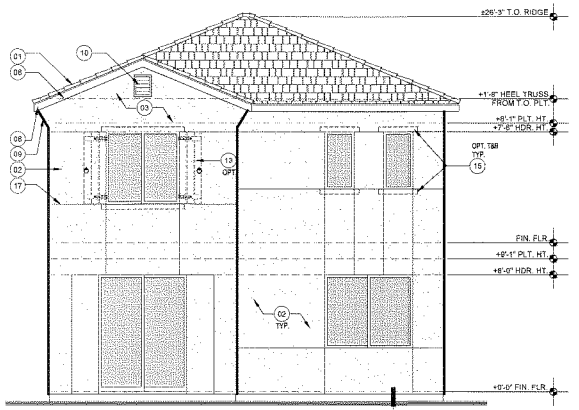
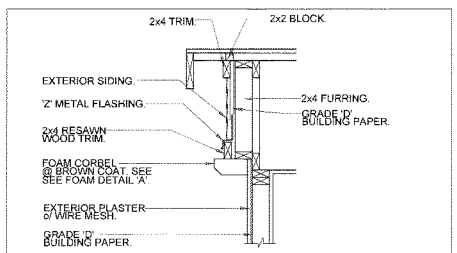



REAR ELEVATIONS
SCALE: 1/4"=1'-0"




1 GABLE END CORBEL w/SIDING DETAIL

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03 ICC ESR#2388 APPROVED THERMAL B[illegible] SYSTEM AT EXPOSED GABLE END AT EQ
04 MANUFACTURED STONE VENEER ELDORADO STONE VENEER. LIGHTWEIGHT AGGREGATE, PORTLAND CEMENT AND IRON OXIDES. CODE CERTIFICATION: ESR-1215 FAMA MATERIAL RELEASE #910. UNDERWRITERS LABORATORIES CLASSIFICATION #9907. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL WITH 2 LAYERS GRADE 'D' PAPER OVER METAL LATH w/ ONE PART TYPE 'M' MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT.
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REVIEWED
FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING

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AGENDA ITEM NO. 17.

COTTAG
7030 N. FRUIT AVE. SU
FRESNO, CALIFORNIA 9
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

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PLAN 1209

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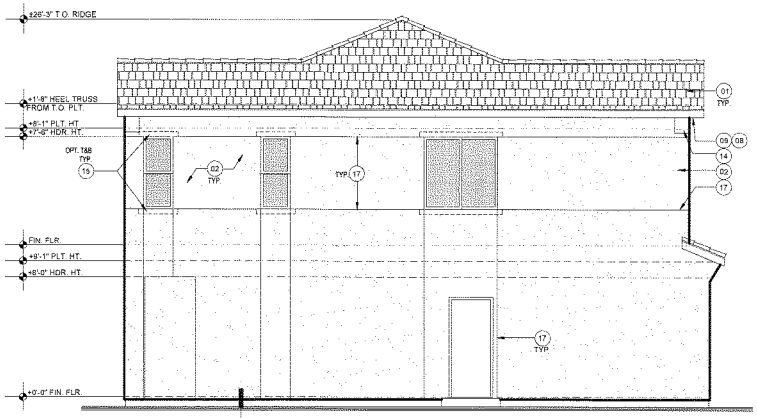
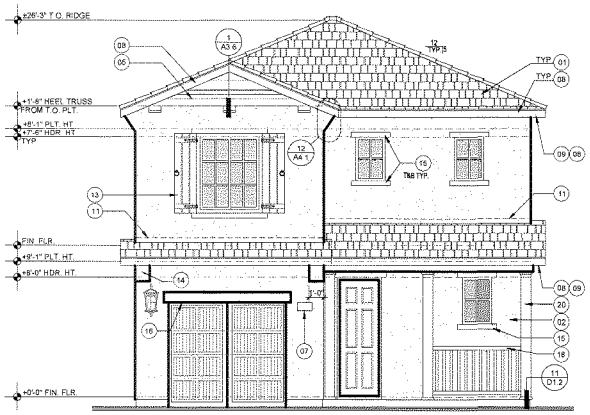
PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS
1 12.2.19 CODE UPDATE
2
3
4
5
6

SHEET A3.5
TRACT: KINGSTONE
HARVEST




LEFT ELEVATIONS
SCALE: 1/4"=1'-0"




FRONT ELEVATIONS
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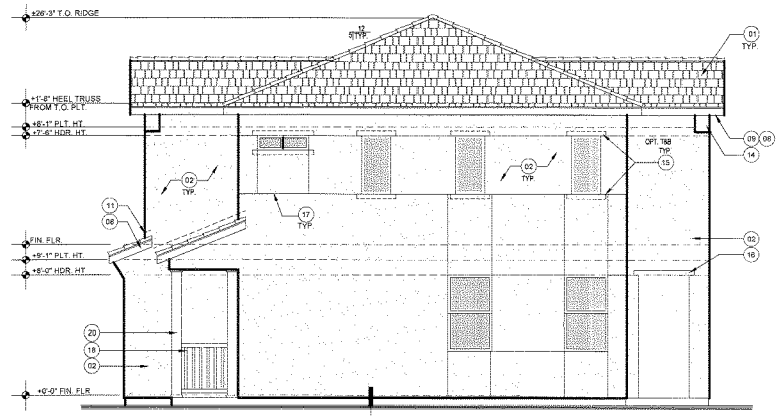


RIGHT ELEVATIONS
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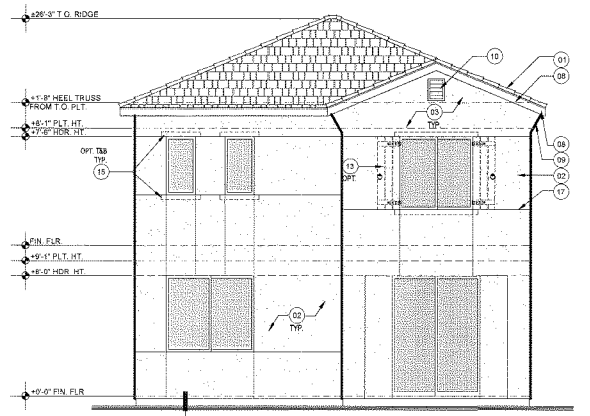


REAR ELEVATIONS
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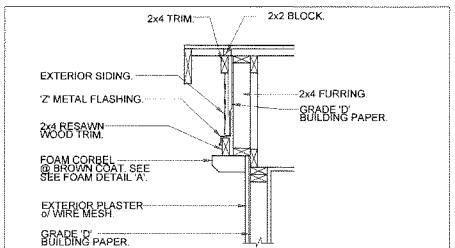


1 GABLE END CORBEL w/SIDING DETAIL

## ELEVATION KEYNOTES

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03 ICC ESR#2586 APPROVED THERMAL B... SYSTEM AT EXPOSED GABLE END AT... EQ.
04 MANUFACTURED STONE VENEER: ELDORADO STONE VENEER, LIGHTWEIGHT... IRON OXIDES. CODE CERTIFICATION: ESR-1215 FAVIA MATERIAL RELEASE #915 UNDERWRITER'S LABORATORIES CLASSIFICATION #5401. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH W/ ONE PART TYPE "M" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT.
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AGENDA ITEM NO. 17.

COTTAGE -
7030 N. FRUIT AVE. SU...
FRESNO , CALIFORNIA ...
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS
1 2.9.14 CODE UPDATE
2
3
4
5
6

SHEET A3.6

TRACT: KINGSTONE
HARVEST

## DOOR SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 16'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/8" THK. SOLID CORE DOOR W/SELF CLOSURE, & SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 3'-0" x 6'-8" | SINGLE | | | |
| 07 | 2'-6" x 6'-8" | SINGLE | | | |
| 08 | 5'-0" x 6'-8" | BI-PASS | | | |
| 09 | 5'-0" x 6'-8" | BI-FOLD | | | |

## WINDOW SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| B | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| D | 5'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| E | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH |
| F | 1'-5" x 3'-0" | FIX | 0.27 | 0.23 | SPANISH |
| G | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | COTTAGE & TUSCAN |
| H | 2'-0" x 3'-6" | FIX | 0.27 | 0.23 | COTTAGE |
| I | 2'-0" x 4'-0" | FIX | 0.27 | 0.23 | TUSCAN |
| J | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| K | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| L | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| M | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. |
| N | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| O | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |

## FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP w/ HOOD ABV. (MICROWAVE SPECIFICATIONS, VERTICAL CLEARANCE 30" UNPROTECTED, OR 24" PROTECTED REQUIRED, TO BE PER THE PERMANENT ANTI-TILT LOCK.
05 WASHER (N.I.C.)
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR A MIN. 4" DIA MOISTER EXHAUST DUCT PER SECTION 504.3. A (14'-0" MAX. RUN PER C.M.C. SECTION 908) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL)
09 VANITY MIRROR.
10 OVAL TUB w/12" TILE SPLASH & DECK
11 LASCO MODEL #102422P FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPARATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE. 72" MIN. C/ USE OF FIBER-CEMENT FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS. w/2"-9" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" TEMP DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET (16" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
22 HANDRAIL / GUARDRAIL - SEE PLAN FOR LOCATION
23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL.
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALL & CEILING.
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL.
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING).
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 1/2".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 WASHER/DRYER STACK UNIT (N.I.C.) DRYER VENT TO OUTSIDE AIR MIN. 4" DIA. MOISTER EXHAUST DUCT PER SECT. 504.3. A (14'-0" MAX. RUN PER C.M.C. SECT. 908) REFER TO PLUMBING PLANS FOR OPT. GAS. INSTALL DRYER BOX IN WALL FOR VENTING
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF DECK COATING-HILLS BROS. CHEM.CO. 'DESERT-CRETE'. ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO# REPORT
45 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BLDG.
46 30" OVEN / MICROWAVE COMBO
47 2x6 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 6x6 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION

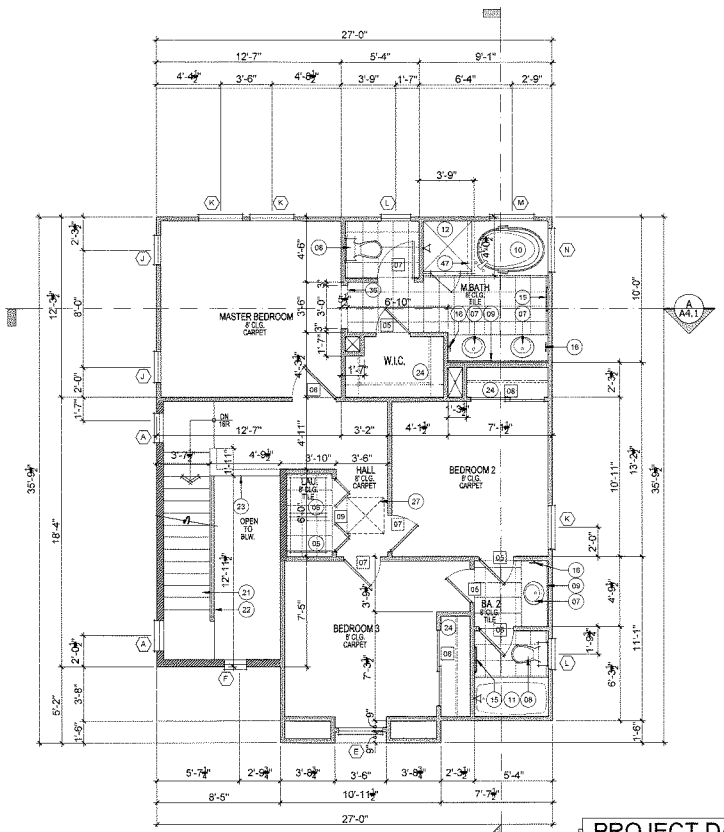
## ENERGY COMPLIANCE SCHEDULE

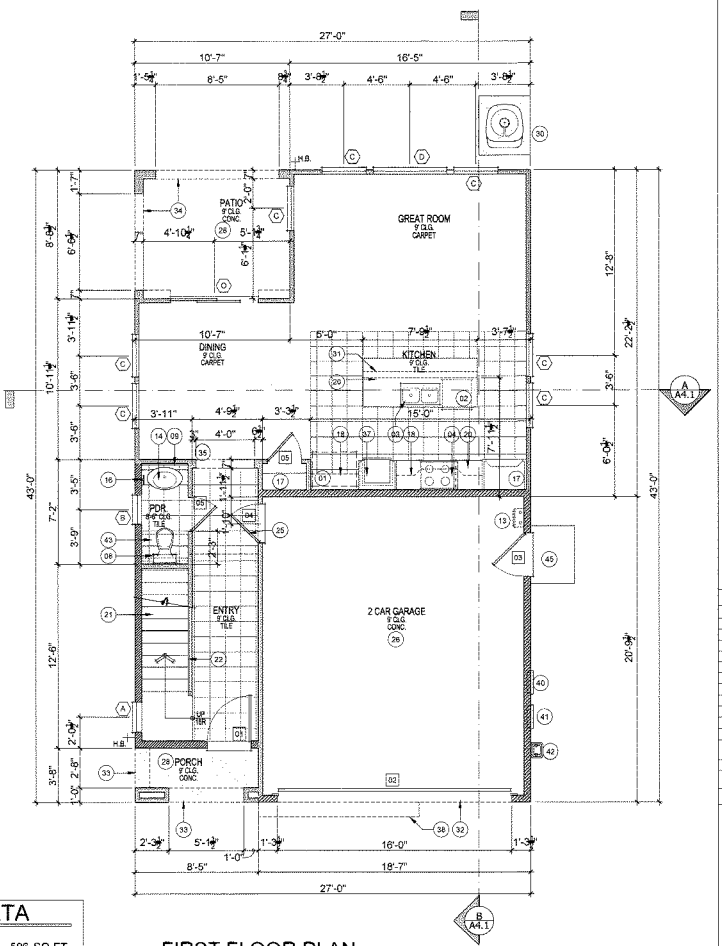
INTERWEST CONSULTING

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |

## FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUBS/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS. WITH MINIMUM 821 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2006 OR F 2090. THE WINDOW GUARDS MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6 8kBTU/hr (2 kW) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS




## PROJECT DATA

| | | |
|---|---|---|
| AREAS - RESIDENCE | | |
| FIRST FLOOR | : | 596 SQ.FT. |
| SECOND FLOOR | : | 802 SQ.FT. |
| TOTAL FLOOR AREA | : | 1398 SQ.FT. |
| GARAGE | : | 392 SQ.FT. |
| PORCH (SPANISH) | : | 31 SQ.FT. |
| PATIO | : | 110 SQ.FT. |

## WALL LEGEND

2x4 STD. GRD. STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.
2x6 STD. GRD.STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O

AGENDA ITEM NO. 17.


SPANISH
7030 N. FRUIT AVE. SUITE 101
FRESNO, CALIFORNIA 93711
PHONE: (559) 435-9700 FAX: (559) 435-9707
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BONADELLE HOMES INC.
PLAN 1398

REVIEWED FOR CODE COMPLIANCE
FEB 25 2020


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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

SHEET A1.1

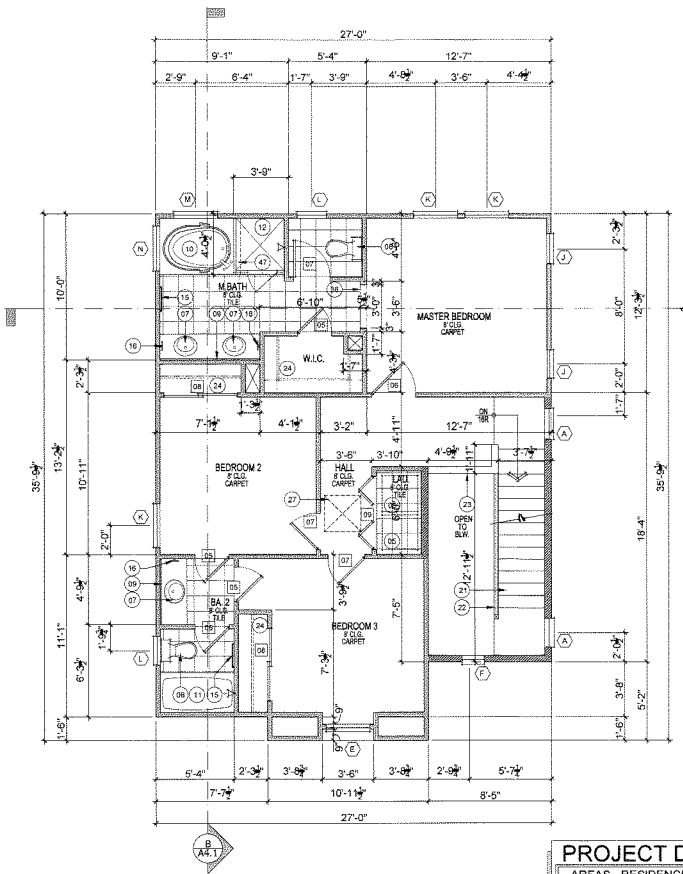
TRACT: RIVERSTONE
HARVEST

## DOOR SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 16'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/4" THK. SOLID CORE DOOR W/SELF CLOSURE, & SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 3'-0" x 6'-8" | SINGLE | | | |
| 07 | 2'-6" x 6'-8" | SINGLE | | | |
| 08 | 5'-0" x 6'-8" | BI-PASS | | | |
| 09 | 5'-0" x 6'-8" | BI-FOLD | | | |

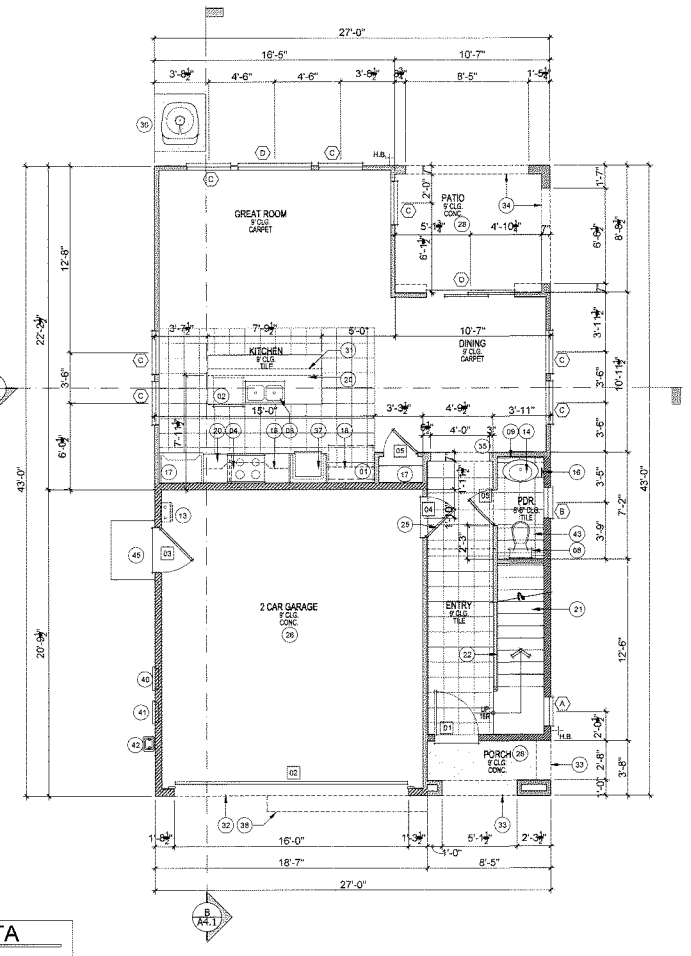
## WINDOW SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| B | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| D | 5'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| E | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH |
| F | 1'-6" x 3'-0" | FIX | 0.27 | 0.23 | SPANISH |
| G | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | COTTAGE & TUSCAN |
| H | 2'-0" x 3'-6" | FIX | 0.27 | 0.23 | COTTAGE |
| I | 2'-0" x 4'-0" | FIX | 0.27 | 0.23 | TUSCAN |
| J | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| K | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| L | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| M | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. |
| N | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| O | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |




## SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"




## FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

## PROJECT DATA

| AREAS - RESIDENCE | | |
|---|---|---|
| FIRST FLOOR | : | 596 SQ.FT. |
| SECOND FLOOR | : | 802 SQ.FT. |
| TOTAL FLOOR AREA | : | 1398 SQ.FT. |
| GARAGE | : | 392 SQ.FT. |
| PORCH (SPANISH) | : | 31 SQ.FT. |
| PATIO | : | 110 SQ.FT. |

## WALL LEGEND

2x4 STD. GRD. STUDS @16" O.C. W/R-15 INSULATION @EXT. WALLS U.N.O.

2x6 STD. GRD.STUDS @16" O.C. W/R-19 INSULATION @ EXT./INT WALLS U.N.O.

## FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP W/ HOOD ABV. (MICROWAVE OVEN) PER MFR SPECIFICATIONS, VERTICAL CLEARANCE ABOVE COOKTOP SHALL BE 30" UNPROTECTED, OR 24" PROTECTED WITH 1-1/2" GYP. BD. REQUIRED TO BE PER THE PERMANENT LABEL AND INCLUDE ANTI-TILT LOCK.
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR A MIN. 4" DIA MOISTER EXHAUST DUCT PER SECTION 504.3. A (14'-0" MAX. RUN PER C.M.C. SECTION 906) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 OVAL TUB w/12" TILE SPLASH & DECK
11 LASCO MODEL #1024222P FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPARATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE 72" MIN. OR USE OF FIBER-CEMENT FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS. w/2" 6" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" TEMP. DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET (18" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
22 HANDRAIL / GUARDRAIL - SEE PLAN FOR LOCATION
23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALL & CEILING.
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL.
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING).
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 1/2".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 WASHER/DRYER STACK UNIT (N.I.C.) DRYER VENT TO OUTSIDE AIR MIN 4" DIA. MOISTER EXHAUST PER SECT. 504.0. A (14'-0" MAX. RUN PER C.M.C. SECT. 906) REFER TO PLUMBING PLANS FOR DPT. GAS. INSTALL DRYER BOX IN WALL FOR VENTING
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF DECK COATING-HILLS BROS. CHEC-M. CO. /DESERT-CRETE. IDBO#4836 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO# REPORT
45 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BLDG.
46 30" OVEN / MICROWAVE COMBO
47 2x6 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 6x6 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION

REVIEWED FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING

## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |

## FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUB/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 5.21 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROTECTED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2090 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8kBTU/hr (2-kw) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

AGENDA ITEM NO. 17.


SPANISH - L
7030 N. FRUIT AVE. SU
FRESNO, CALIFORNIA
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555


BONADELLE HOMES INC.
PLAN 1398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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

SHEET A1.2

TRACT: RIVERSTONE

HARVEST

## DOOR SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 16'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/8" THK. SOLID CORE DOOR W/SELF CLOSURE, & SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 3'-0" x 6'-8" | SINGLE | | | |
| 07 | 2'-6" x 6'-8" | SINGLE | | | |
| 08 | 5'-0" x 6'-8" | BI-PASS | | | |
| 09 | 5'-0" x 6'-8" | BI-FOLD | | | |

## WINDOW SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| B | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| D | 5'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| E | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH |
| F | 1'-6" x 3'-0" | FIX | 0.27 | 0.23 | SPANISH |
| G | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | COTTAGE & TUSCAN |
| H | 2'-0" x 3'-6" | FIX | 0.27 | 0.23 | COTTAGE |
| I | 2'-0" x 4'-0" | FIX | 0.27 | 0.23 | TUSCAN |
| J | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| K | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| L | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| M | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. |
| N | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| O | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |

## FLOOR KEYNOTES

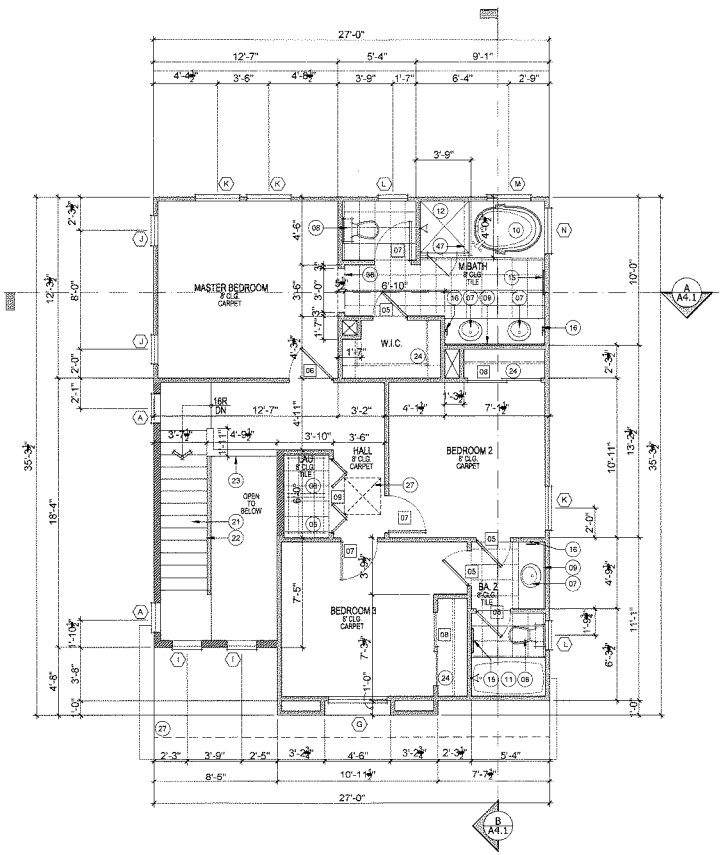
01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP w/ HOOD ABV. (MICROWAVE/HOOD COMBO PER MFR SPECIFICATIONS.VERTICAL CLEARANCE BETWEEN COOKTOP AND HOOD SHALL BE 30" UNPROTECTED, OR 24" PROTECTED. IF 24" PROTECTED, 30" WIDE HOOD IS REQUIRED TO BE PER THE PERMANENT ANTI-TILT LOCK.
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR MIN. 4" DIA. MOISTURE EXHAUST DUCT PER SECTION 504.3. A 114'-0" MAX. RUN PER C.M.C. SECTION 908) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 OVAL TUB w/12" TILE SPLASH & DECK
11 LASCO MODEL #1024423P FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPARATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE. 72" MIN. O/ USE OF FIBER-CEMENT, FIBER-MAT REINFORCED CEMENT, OR GLASS MAT GYPSUM BACKERS., W/2"-0" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" TEMP. DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET (18" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS. SEE DETAIL 4/D1.2.
22 HANDRAIL / GUARDRAIL - SEE PLAN FOR LOCATION
23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALL & CEILING
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING).
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x8 PONY WALL @ +34 1/2".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 WASHER/DRYER STACK UNIT (N.I.C.) DRYER VENT TO OUTSIDE AIR MIN. 4" DIA. MOISTURE EXHAUST DUCT PER SECT. 504.0, A 114'-0" MAX. RUN PER C.M.C. SECT. 908) REFER TO PLUMBING PLANS FOR OPT. GAS. INSTALL DRYER BOX IN WALL FOR VENTING
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF DECK COATING-HILLS BROS. CHEC-M. CO. 'DESERT-CRETE' ICSO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO# REPORT
45 CONC. STOOP AT GARAGE MAN DOOR - (BRDOM FINISH) SLOPE AWAY FROM BLDG.
46 30" OVEN / MICROWAVE COMBO
47 2x6 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 6x6 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION

## ENERGY COMPLIANCE SCHEDULE

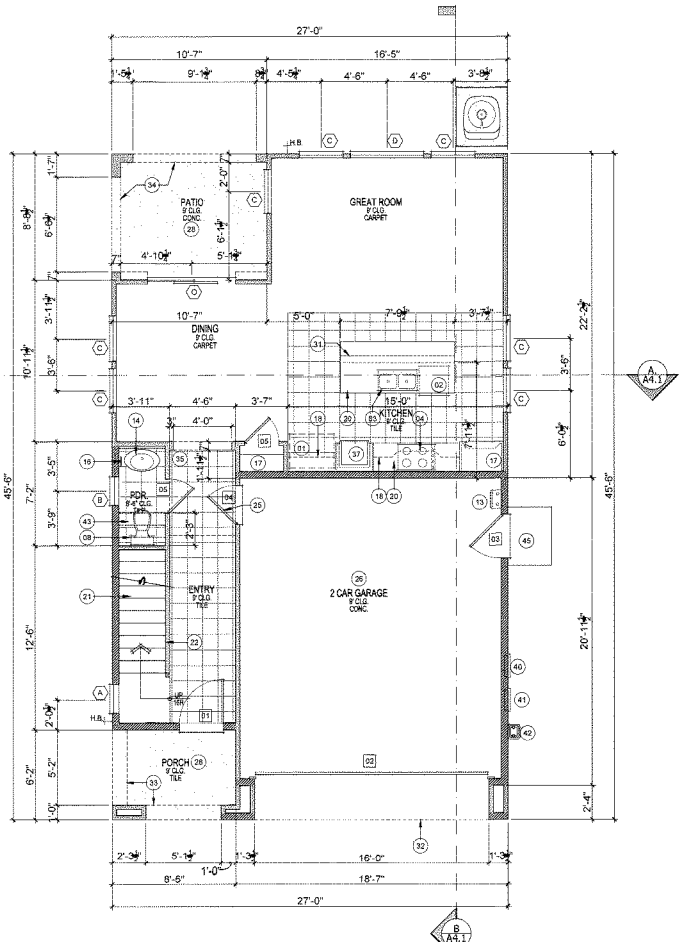
| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x6=R-19, 2x8=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER, EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |

## FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 821 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION. OPENINGS THAT ARE PROTECTED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2090 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8kBTU/hr (2-kw) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS




SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"




FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

## PROJECT DATA

| | | |
|---|---|---|
| AREAS - RESIDENCE | | |
| FIRST FLOOR | : | 596 SQ.FT. |
| SECOND FLOOR | : | 802 SQ.FT. |
| TOTAL FLOOR AREA | : | 1398 SQ.FT. |
| GARAGE | : | 392 SQ.FT. |
| PORCH | : | 52 SQ.FT. |
| PATIO | : | 110 SQ.FT. |

## WALL LEGEND

2x4 STD. GRD. STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.
2x6 STD. GRD.STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O.

AGENDA ITEM NO. 17.


TUSCAN
7030 N. FRUIT AVE. SU
FRESNO, CALIFORNI
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555


BONADELLE HOMES INC.
PLAN 1398

REVIEWED FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

SHEET A1.3

TRACT: RIVERSTONE
HARVEST

## DOOR SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 16'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/8" THK. SOLID CORE DOOR W/SELF CLOSURE, & SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 3'-0" x 6'-8" | SINGLE | | | |
| 07 | 2'-6" x 6'-8" | SINGLE | | | |
| 08 | 5'-0" x 6'-8" | BI-PASS | | | |
| 09 | 5'-0" x 6'-8" | BI-FOLD | | | |

## WINDOW SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| B | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| D | 5'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| E | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH |
| F | 1'-6" x 3'-0" | FIX | 0.27 | 0.23 | SPANISH |
| G | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | COTTAGE & TUSCAN |
| H | 2'-0" x 3'-6" | FIX | 0.27 | 0.23 | COTTAGE |
| I | 2'-0" x 4'-0" | FIX | 0.27 | 0.23 | TUSCAN |
| J | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| K | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| L | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| M | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. |
| N | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| O | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |

## FLOOR KEYNOTES

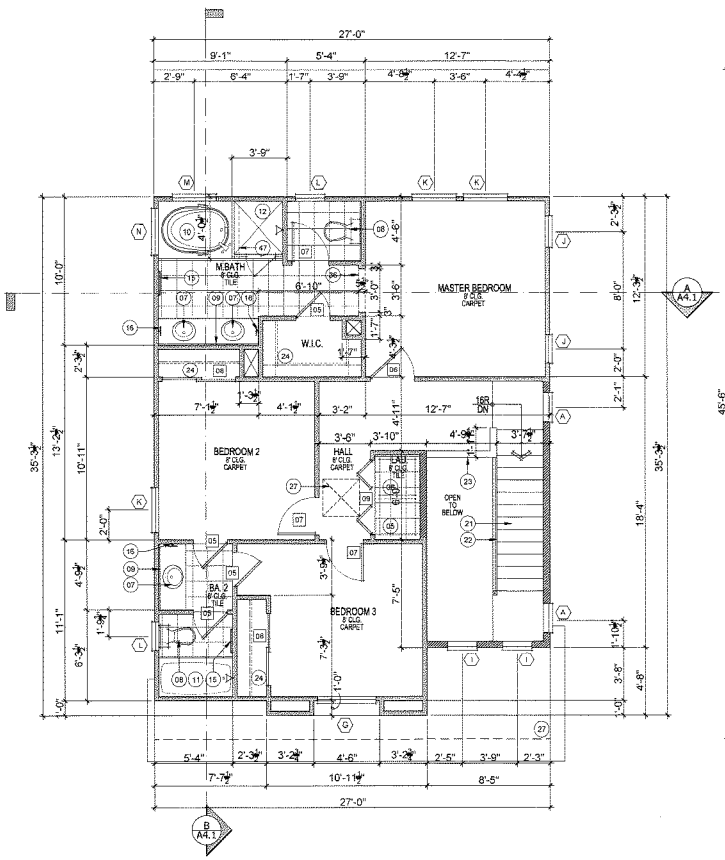
01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP w/ HOOD ASV. (MICROWAVE OVEN SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS VERTICAL CLEARANCE ABOVE COOKTOP SHALL BE 30" UNPROTECTED, OR 24" PROTECTED. IF 24" PROTECTED, A MINIMUM OF 30" UNPROTECTED IS REQUIRED TO BE PER THE PERMANENT LABEL. RANGE SHALL BE EQUIPPED WITH ANTI-TILT LOCK.
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR MIN. 4" DIA. MOISTER EXHAUST DUCT PER SECT. 504.3, A (14'-0" MAX. RUN PER C.M.C. SECTION 908) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL)
09 VANITY MIRROR.
10 OVAL TUB w/12" TILE SPLASH & DECK
11 LASCO MODEL #102422P FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPARATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE. 72" MIN. O/ USE OF FIBER-CEMENT, FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS. w/2'-6" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" TEMP DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN A REA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +58" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET (18" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
22 HANDRAIL / GUARDRAIL - SEE PLAN FOR LOCATION
23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALL & CEILING.
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL.
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING).
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 1/2".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 WASHER/DRYER STACK UNIT (N.I.C.) DRYER VENT TO OUTSIDE AIR MIN. 4" DIA. MOISTER EXHAUST DUCT PER SECT. 504.3, A (14'-0" MAX. RUN PER C.M.C. SECT. 908) REFER TO PLUMBING PLANS FOR OPT. GAS. INSTALL DRYER BOX IN WALL FOR VENTING
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF DECK COATING-HILLS BRDS. CHECK .CO. "DESERT-CRETE" ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO# REPORT
45 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BLDG.
46 30" OVEN / MICROWAVE COMBO
47 2x6 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 6x6 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION

## ENERGY COMPLIANCE SCHEDULE

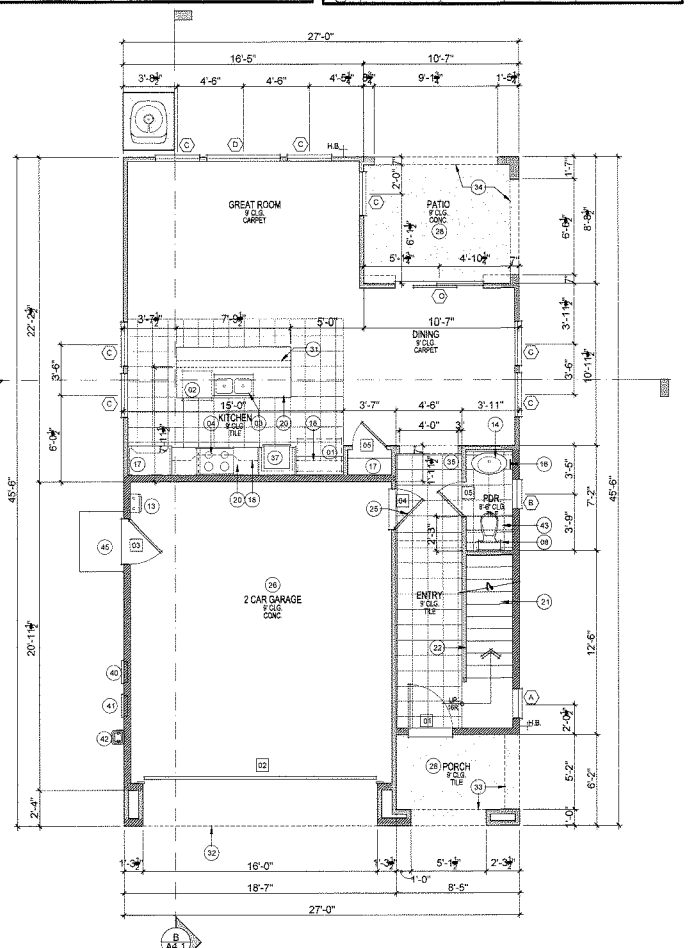
| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |

## FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 821 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION : OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2006 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8KBTU/hr (2-kw) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS




SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"




FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

## PROJECT DATA

| | | |
|---|---|---|
| AREAS - RESIDENCE | | |
| FIRST FLOOR | : | 596 SQ.FT. |
| SECOND FLOOR | : | 802 SQ.FT. |
| TOTAL FLOOR AREA | : | 1398 SQ.FT. |
| GARAGE | : | 392 SQ.FT. |
| PORCH | : | 52 SQ.FT. |
| PATIO | : | 110 SQ.FT. |

## WALL LEGEND

2x4 STD. GRD. STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.
2x6 STD. GRD.STUDS @16" O.C. w/R-19 INSULATION @ EXT.ANT WALLS U.N.O.

AGENDA ITEM NO. 17.

REVIEWED FOR CODE COMPLIANCE
FEB 5 2020
INTERWEST CONSULTING


TUSCAN - L
7030 N. FRUIT AVE. S
FRESNO, CALIFORN
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555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PLAN 1398


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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

SHEET A1.4

TRACT: RIVERSTONE
HARVEST

## DOOR SCHEDULE

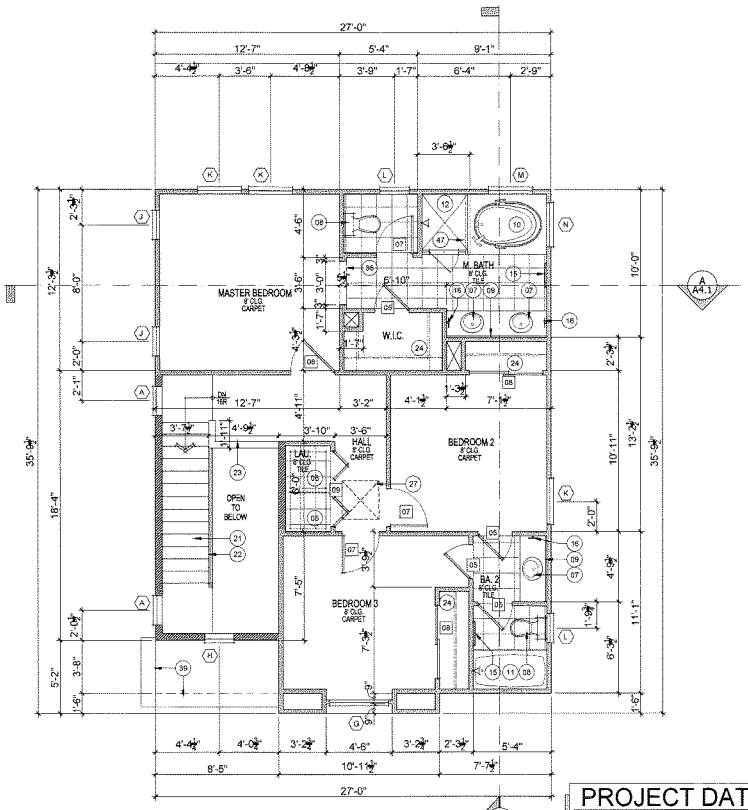
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 16'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/4" THK. SOLID CORE DOOR W/SELF CLOSURE, & SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 3'-0" x 6'-8" | SINGLE | | | |
| 07 | 2'-6" x 6'-8" | SINGLE | | | |
| 08 | 5'-0" x 6'-8" | BI-PASS | | | |
| 09 | 5'-0" x 6'-8" | BI-FOLD | | | |

## WINDOW SCHEDULE

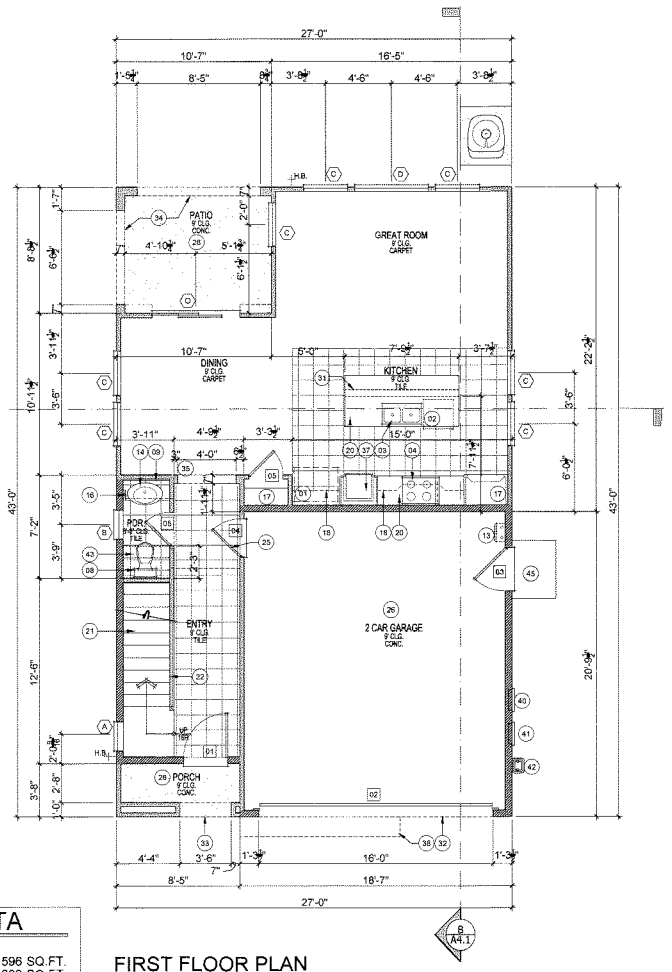
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| B | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| D | 5'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| E | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH |
| F | 1'-6" x 3'-0" | FIX | 0.27 | 0.23 | SPANISH |
| G | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | COTTAGE & TUSCAN |
| H | 2'-0" x 3'-6" | FIX | 0.27 | 0.23 | COTTAGE |
| I | 2'-0" x 4'-0" | FIX | 0.27 | 0.23 | TUSCAN |
| J | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| K | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| L | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| M | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. |
| N | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| O | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |

## FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP w/ HOOD ABV. (MICROWAVE OVEN) SEE SPECIFICATIONS/VERTICAL CLEARANCE BETWEEN COOKTOP & 30" UNPROTECTED, OR 24" PROTECTED WOOD CABINETRY REQUIRED TO BE PER THE PERMANENT LABEL. COOKTOP TO HAVE ANTI-TILT LOCK.
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR MIN. 4" DIA. PER SECTION 504.0. A (14'-0" MAX. RUN PER C.M.C. SECTION 906) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL)
09 VANITY MIRROR.
10 OVAL TUB w/12" TILE SPLASH & DECK
11 ASCO MODEL #1034220 FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPARATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE: 72" MIN. OVER USE OF FIBER-CEMENT BOARD MAT, REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS - WITH NO MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" WIDE DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET (18" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
22 HANDRAIL / GUARDRAIL - SEE PLAN FOR LOCATION
23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALL & CEILING.
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING)
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 1/2"
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT, SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 WASHER/DRYER STACK UNIT (N.I.C.) DRYER VENT TO OUTSIDE AIR MIN. 4" DIA. MOISTER EXHAUST DUCT PER SECT. 504.0. A (14'-0" MAX. RUN PER C.M.C. SECT. 906) REFER TO PLUMBING PLANS FOR OPT. GAS. INSTALL DRYER BOX IN WALL FOR VENTING
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS
44 WATERPROOF COATING-HILLS BROS. CHEMCM. CO. 'DESERT-CRETE' ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO# REPORT
45 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BLDG.
46 30" OVEN / MICROWAVE COMBO
47 2x6 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 6x6 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION




SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"




FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

## PROJECT DATA

AREAS - RESIDENCE

| | | |
|---|---|---|
| FIRST FLOOR | : | 596 SQ.FT. |
| SECOND FLOOR | : | 802 SQ.FT. |
| TOTAL FLOOR AREA | : | 1398 SQ.FT. |
| GARAGE | : | 392 SQ.FT. |
| PORCH | : | 31 SQ.FT. |
| PATIO | : | 110 SQ.FT. |

## WALL LEGEND

2x4 STD. GRD STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.
2x6 STD. GRD STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O.

## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.6 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (HERS) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |

## FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUBS/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 821 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2006 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8KBTU/hr (2kw) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

AGENDA ITEM NO. 17.


COTTA
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BONADELLE HOMES INC.
PLAN 1398

REVIEWED FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING


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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.3.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |

SHEET A1.5

TRACT: RIVERSTONE
HARVEST

## DOOR SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 16'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-⅜" THK. SOLID CORE DOOR w/SELF CLOSURE, & SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 3'-0" x 6'-8" | SINGLE | | | |
| 07 | 2'-6" x 6'-8" | SINGLE | | | |
| 08 | 5'-0" x 6'-8" | BI-PASS | | | |
| 09 | 5'-0" x 6'-8" | BI-FOLD | | | |

## WINDOW SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| B | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| D | 5'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| E | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH |
| F | 1'-6" x 3'-0" | FIX | 0.27 | 0.23 | SPANISH |
| G | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | COTTAGE & TUSCAN |
| H | 2'-0" x 3'-6" | FIX | 0.27 | 0.23 | COTTAGE |
| I | 2'-0" x 4'-0" | FIX | 0.27 | 0.23 | TUSCAN |
| J | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| K | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| L | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| M | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. |
| N | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| O | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |

## FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP w/ HOOD ABV. (MICROWAVE COMBO) PER MFR SPECIFICATIONS VERTICAL CLEARANCE ABOVE COOKTOP SHALL BE 30" UNOBSTRUCTED, OR 24" IF RESTRICTIVE HOOD IS REQUIRED TO BE PER THE PERMANENT ANTI-TILT LOCK.
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR MIN. 4" DIA. PER SECTION 504.3. A (14'-0" MAX. RUN PER C.M.C. SECTION 906) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL)
09 VANITY MIRROR.
10 OVAL TUB w/12" TILE SPLASH & DECK
11 LASCO MODEL #1024222P FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPARATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE 72" MIN. O/ USE OF FIBER-CEMENT FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS, w/2'-6" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" TEMP DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
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14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET (18" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
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23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALL & CEILING.
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING).
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44 WATERPROOF DECK COATING-HILLS BROS. CHEMCM. CO. 'DESERT-CRETE', ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO# REPORT
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46 30" OVEN / MICROWAVE COMBO
47 2x6 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 8x8 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION

## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.85 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATING (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |

## FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 821 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2006 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8kBTU/hr (2-kw) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
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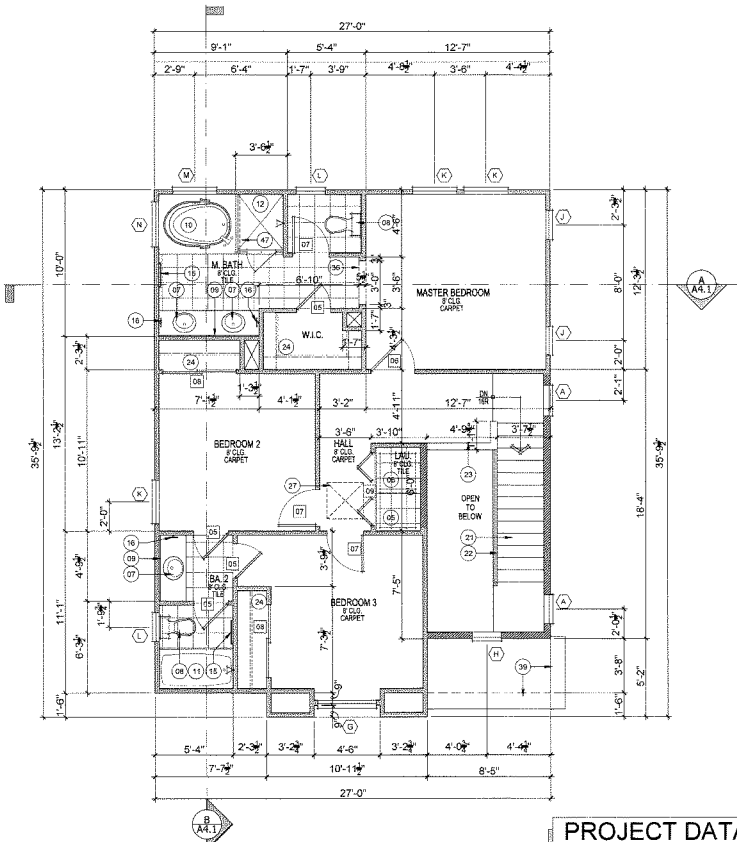
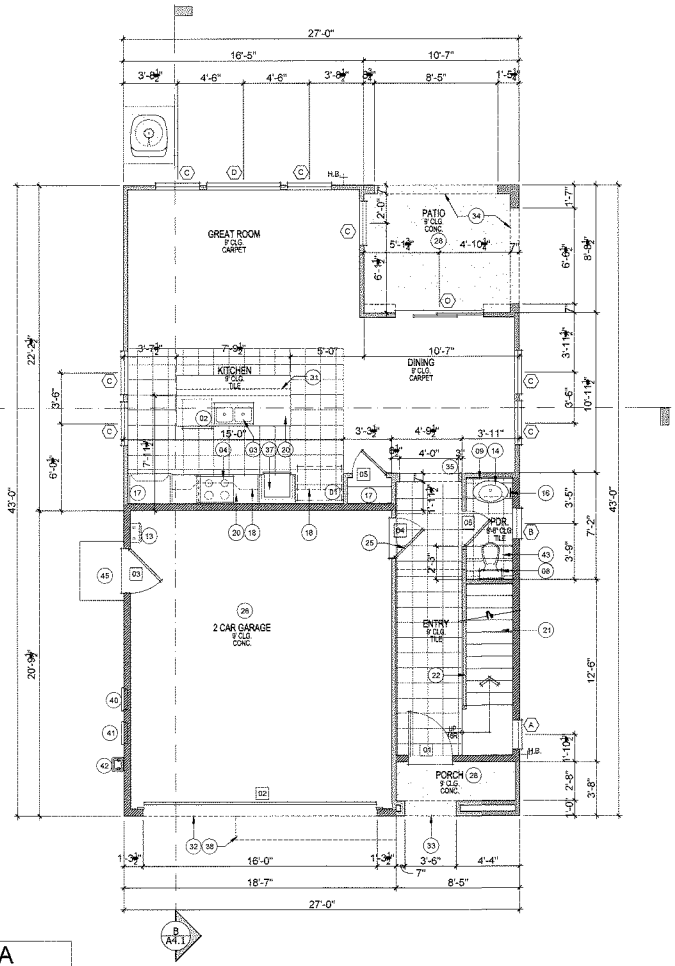



SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"




FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

## PROJECT DATA

| AREAS - RESIDENCE | |
|---|---|
| FIRST FLOOR | 596 SQ.FT. |
| SECOND FLOOR | 802 SQ.FT. |
| TOTAL FLOOR AREA | 1398 SQ.FT. |
| GARAGE | 392 SQ.FT. |
| PORCH | 31 SQ.FT. |
| PATIO | 110 SQ.FT. |

## WALL LEGEND

2x4 STD. GRD. STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.
2x6 STD. GRD.STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O.

AGENDA ITEM NO. 17.


COTTAGE
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FRESNO, CALIFORNIA 93711
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

BONADELLE HOMES INC.
PLAN 1398


REVIEWED FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING


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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
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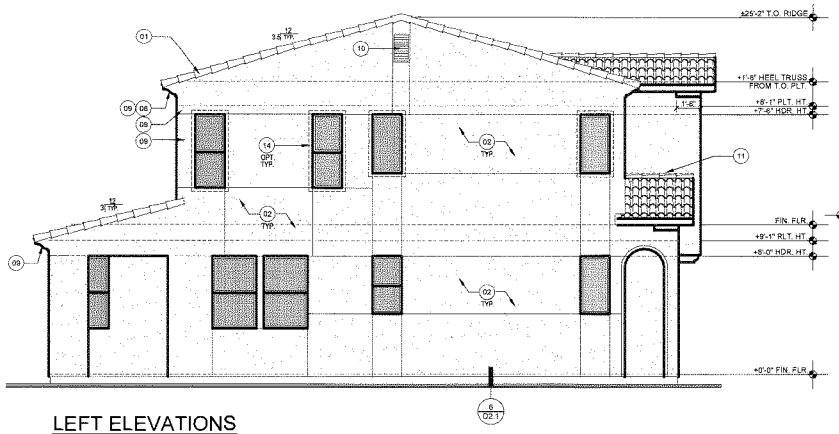
| 7 | | |

SHEET A1.6

TRACT: RIVERSTONE
HARVEST




LEFT ELEVATIONS
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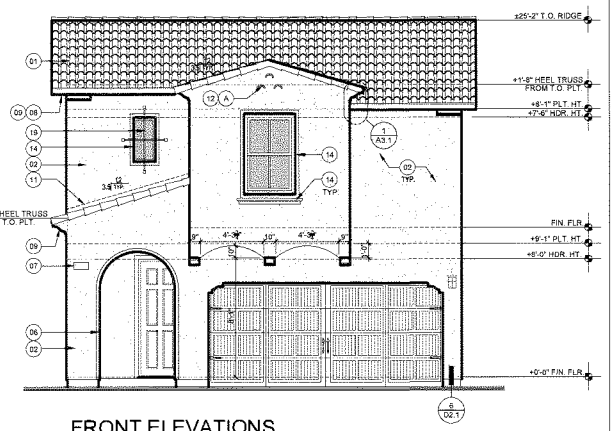
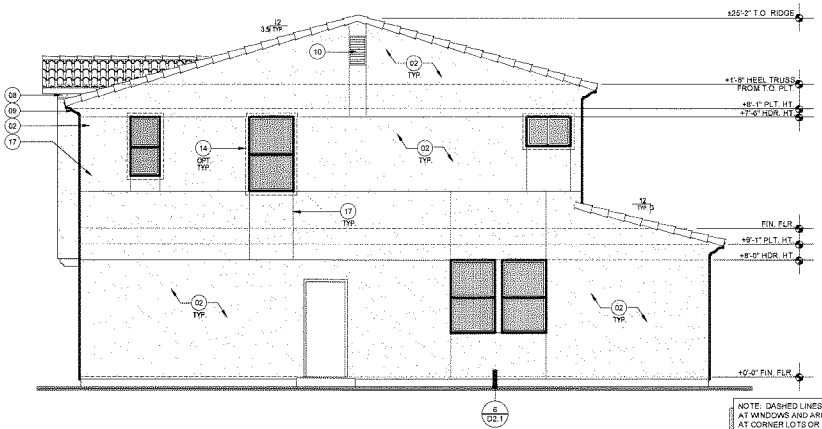
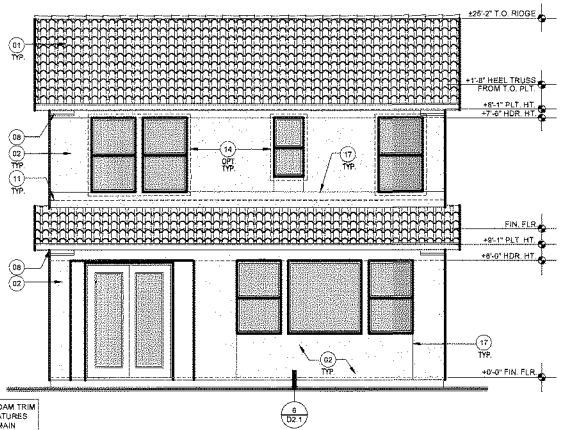



FRONT ELEVATIONS
SCALE: 1/4"=1'-0"

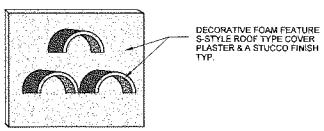



RIGHT ELEVATIONS
SCALE: 1/4"=1'-0"

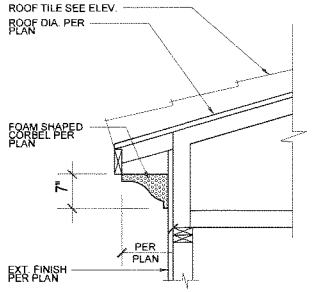
NOTE: DASHED LINES INDICATE ORT. FOAM TRIM AT WINDOWS AND ARCHITECTURAL FEATURES AT CORNER LOTS OR LOTS ADJACENT MAIN STREET. REFER TO PLOT PLANS TO IDENTIFY LOTS




REAR ELEVATIONS
SCALE: 1/4"=1'-0"




A ARCHITECTURAL FEATURE
SCALE: N.T.S.




1 EAVE DETAIL @SPANISH ELEV.

## ELEVATION KEYNOTES

01 TILE ROOF MATERIAL ICC # ESR 1647 OR EQUAL TO COMPLY WITH 2019 CRC R904, R905 SEE ROOF FRAMING PLAN
02 2-COAT CEMENT PLASTER o/1" THK. FOAM w/ (2) LAYER GRADE "D" PAPER UNDER THE CEMENT/PLASTER COVERING WHEN APPLIED OVER WOOD SHEATHING w/ LATH AND WEEP SCREED APPLY CEMENT PLASTER TO ALL EXTERIOR SURFACES INCLUDING SOFFITS, CEILINGS, OVERHANGS, AND OTHER
03 ICC ESR#2698 APPROVED THERMAL B... SYSTEM AT EXPOSED GABLE END AT... EQ.
04 MANUFACTURED STONE VENEER: ELDORADO STONE VENEER - LIGHTWE... IRON OXIDES. CODE CERTIFICATION: ... UNDERWRITER'S LABORATORIES CLASSIFICATION #5467. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH w/ ONE PART TYPE "M" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT.
05 1x LAP SIDING w/15# BUILDING PARER INSTALLED PER MANUFACTURERS SPECIFICATIONS
06 DECORATIVE PRE-CAST SURROUND. INSTALL PER MANUFACTURE'S SPECIFICATIONS
07 ILLUMINATED ADDRESS LOCATION
08 2x6 FASCIA / BARGE BD. (TYP.)
09 12" OVERHANG U.N.O.
10 GABLE END VENT - SEE ROOF FRAMING PLAN FOR VENTING CALCS
11 G.I. SHEET METAL FLASHING AND COUNTER FLASHING AS REQUIRED (2019 CRC 1503.2)
12 DECORATIVE (3) 4"x6"x4" DP. ARCHITECTURAL FOAM FEATURES
13 DECORATIVE SHUTTERS TYPICAL
14 FOAM w/ STUCCO FINISH
15 2x4 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR/WINDOW OPENING
16 2x8 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR
17 1/2" EXPANSION JOINTS INSTALLED @ TIME OF LATH
18 +42" WD. GUARDRAIL - PER PLAN
19 WROUGHT IRON DECORATIVE FEATURE - INSTALLED PER MANUFACTURER'S SPECIFICATIONS
20 6x6 D.F. RE-SAWN POST
21 +42" W.I. GUARDRAIL - PER PLAN

## RADIANT BARRIERS

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## ELEVATION NOTES

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2 PROVIDE G.I. SHEET METAL FLASHING AND COUNTER-FLASHING AS REQUIRED COMPLY TO 2019 CRC
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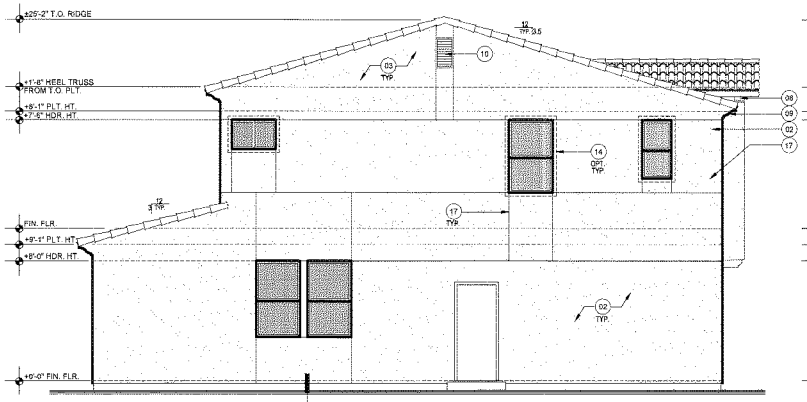
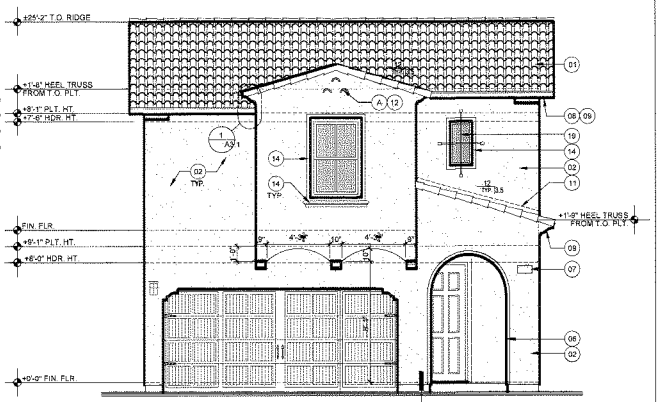
SHEET A3.1

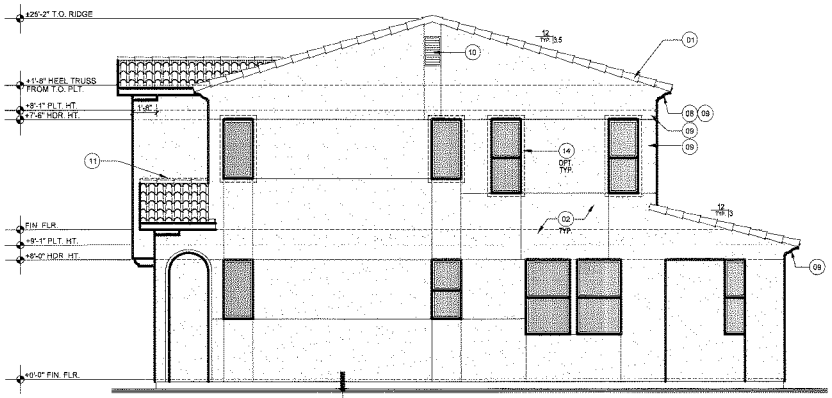
TRACT: RIVERSTONE
HARVEST



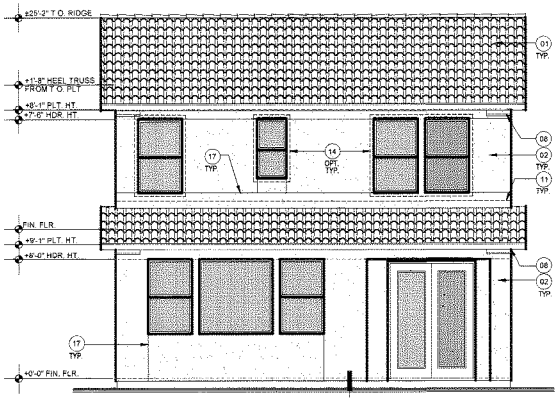

LEFT ELEVATIONS
SCALE: 1/4"=1'-0"




FRONT ELEVATIONS
SCALE: 1/4"=1'-0"




RIGHT ELEVATIONS
SCALE: 1/4"=1'-0"




REAR ELEVATIONS
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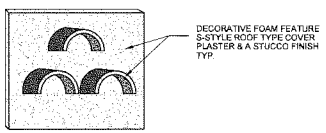
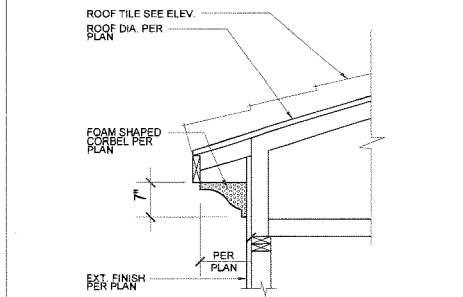



A ARCHITECTURAL FEATURE
SCALE : N.T.S.




1 EAVE DETAIL
@SPANISH ELEV.

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02 2-COAT CEMENT PLASTER o/1" THK. FOAM w/ (2) LAYER GRADE "D" PAPER UNDER THE CEMENTPLASTER COVERING WHEN APPLIED OVER WOOD SHEATHING w/ LATH AND WEEP SCREED APPLY CEMENT PLASTER TO A MIN. HEIGHT OF 4" ABOVE FINISH GRADE AT EXTERIOR CEILINGS, OVERHANGS, AND OTHER

03 ICC ESR#2568 APPROVED THERMAL B SYSTEM AT EXPOSED GABLE END AT EQ.

04 MANUFACTURED STONE VENEER ELDORADO STONE VENEER, LIGHTWE IRON OXIDES. CODE CERTIFICATION UNDERWRITERS LABORATORIES CLASSIFICATION #5467. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH w/ ONE PART TYPE "M" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT.

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11 G.I. SHEET METAL FLASHING AND COUNTER FLASHING AS REQUIRED (2019 CRC 1503.2)

12 DECORATIVE (3) 4"x5"x4" DP. ARCHITECTURAL FOAM FEATURES

13 DECORATIVE SHUTTERS TYPICAL

14 FOAM w/ STUCCO FINISH

15 2x4 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR/WINDOW OPENING

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17 1/2" EXPANSION JOINTS INSTALLED @ TIME OF LATH

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| 1 | 12.2.19 | CODE UPDATE |
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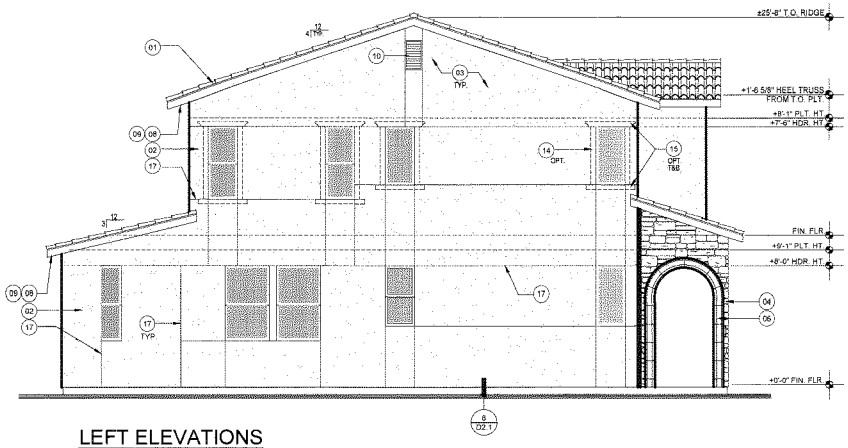
SHEET A3.2

TRACT: RIVERSTONE
HARVEST




LEFT ELEVATIONS
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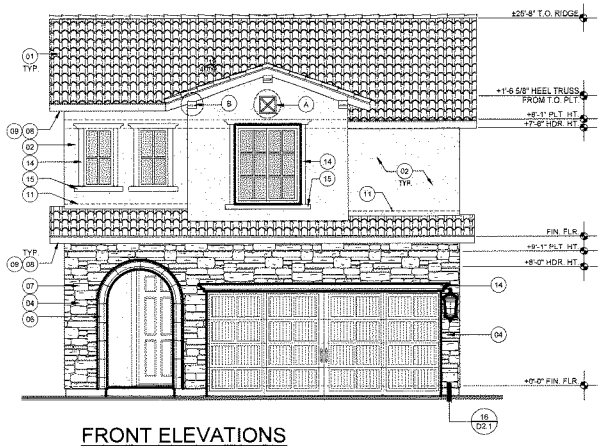


FRONT ELEVATIONS
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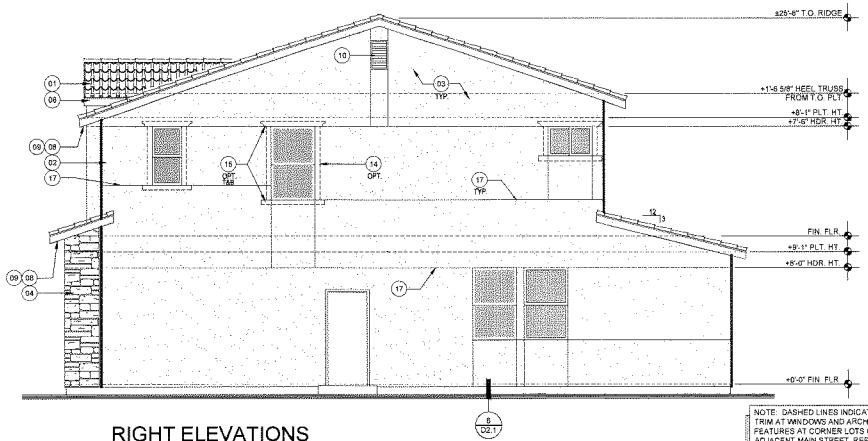


RIGHT ELEVATIONS
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REAR ELEVATIONS
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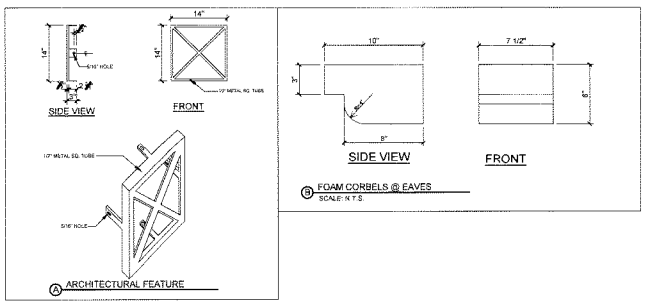


## ELEVATION KEYNOTES

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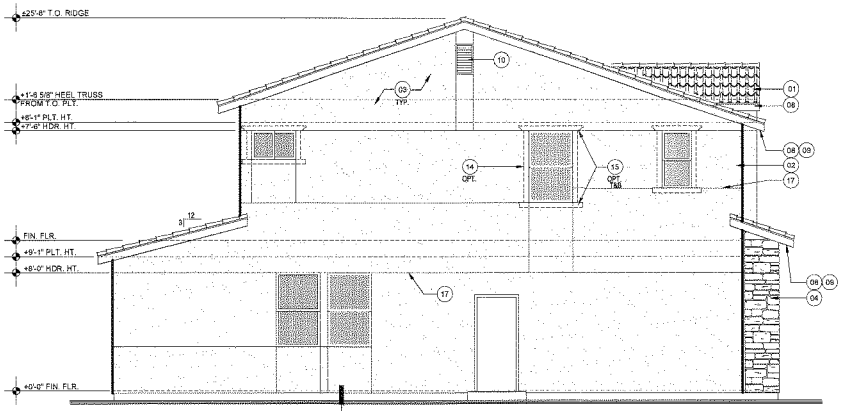
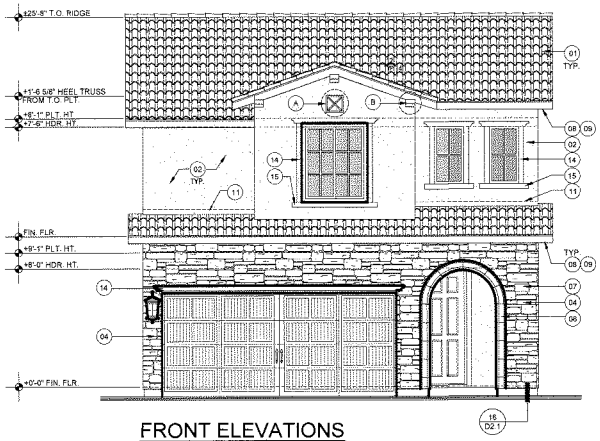
SHEET A3.3

TRACT: RIVERSTONE
HARVEST




LEFT ELEVATIONS
SCALE: 1/4"=1'-0"




FRONT ELEVATIONS
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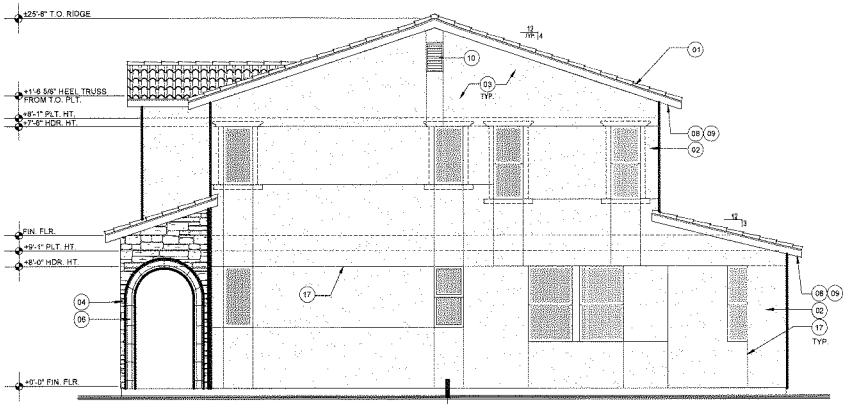


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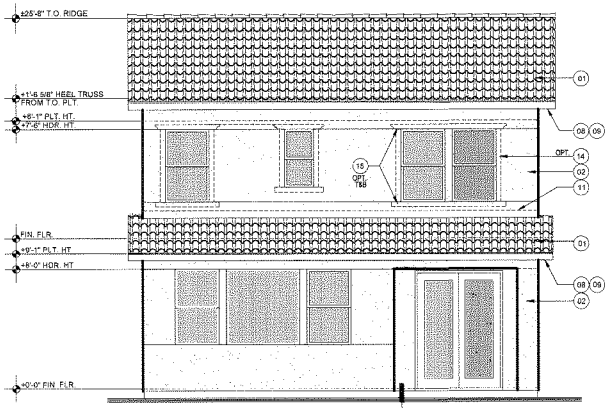


REAR ELEVATIONS
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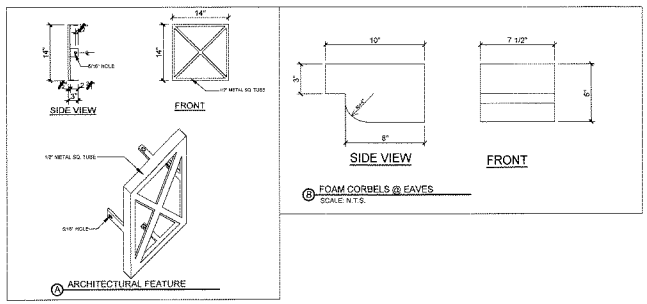


## ELEVATION KEYNOTES

01 TILE ROOF MATERIAL ICC # ESR 1647 OR EQUAL TO COMPLY WITH 2019 CRC R904, R905 SEE ROOF FRAMING PLAN
02 2-COAT CEMENT PLASTER @ ½" THK. FOAM w/ (2) LAYER GRADE "D" PAPER UNDER THE CEMENT PLASTER COVERING WHEN APPLIED OVER WOOD SHEATHING w/ LATH AND WEEP SCREED APPLY CEMENT PLASTER (3 ¾ HIGH RIB METAL LATH AT EXTERIOR CEILINGS, OVERHANGS, AND OTHER
03 ICC ESR#2586 APPROVED THERMAL B SYSTEM AT EXPOSED GABLE END ATT EQ.
04 MANUFACTURED STONE VENEER. ELDORADO STONE VENEER, LIGHTWE IRON OXIDES. CODE CERTIFICATION UNDERWRITERS LABORATORIES CLASSIFICATION #5467. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH w/ ONE PART TYPE "M" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT.
05 1x LAP SIDING w/15# BUILDING PAPER INSTALLED PER MANUFACTURERS SPECIFICATIONS
06 DECORATIVE PRE-CAST SURROUND. INSTALL PER MANUFACTURE'S SPECIFICATIONS
07 ILLUMINATED ADDRESS LOCATION
08 2x6 FASCIA / BARGE BD. (TYP.)
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13 DECORATIVE SHUTTERS TYPICAL
14 FOAM w/ STUCCO FINISH
15 2x4 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR/WINDOW OPENING
16 2x8 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR
17 1/2" EXPANSION JOINTS INSTALLED @ TIME OF LATH
18 +42" WD. GUARDRAIL - PER PLAN
19 WROUGHT IRON DECORATIVE FEATURE - INSTALLED PER MANUFACTURER'S SPECIFICATIONS
20 6x6 D.F. RE-SAWN POST
21 +42" W.I. GUARDRAIL - PER PLAN

## RADIANT BARRIERS

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AGENDA ITEM NO. 17.

REVIEWED
FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING


TUSCAN
7030 N. FRUIT AVE.
FRESNO, CALIFORNIA
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555


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PLAN 1398


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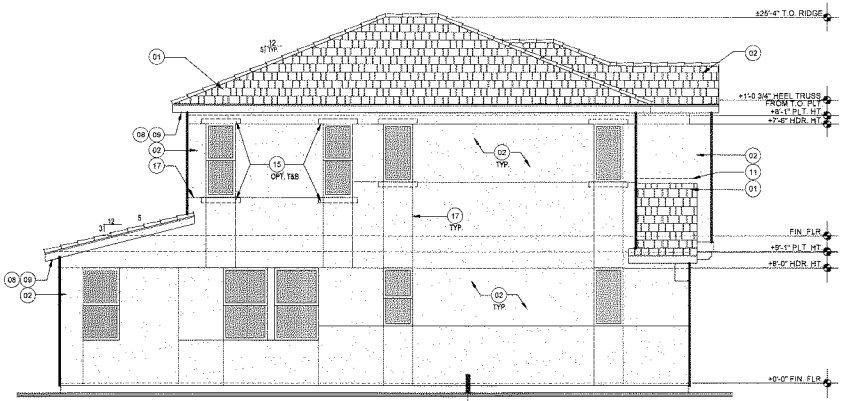
PLOT DATE: 2.3.20
MASTER PLAN NO.

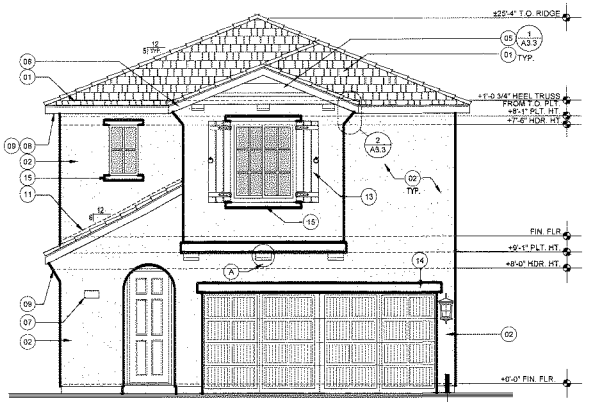
REVISIONS
1 12.2.19 CODE UPDATE
2
3
4
5
6
7

SHEET A3.4

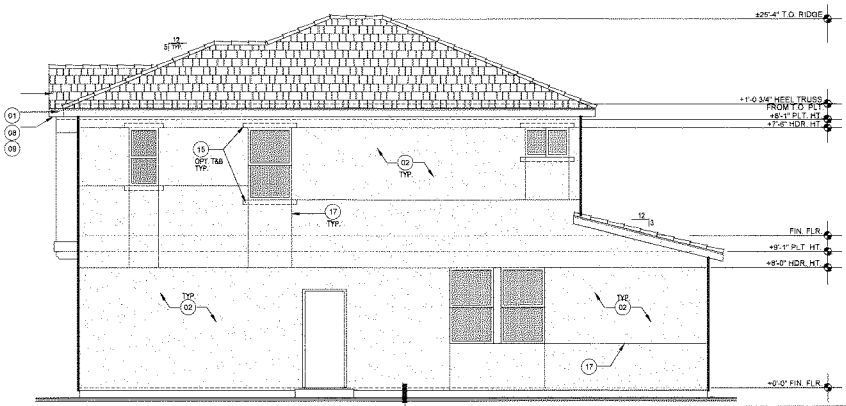
TRACT: RIVERSTONE
HARVEST




LEFT ELEVATIONS
SCALE: 1/4"=1'-0"




FRONT ELEVATIONS
SCALE: 1/4"=1'-0"




RIGHT ELEVATIONS
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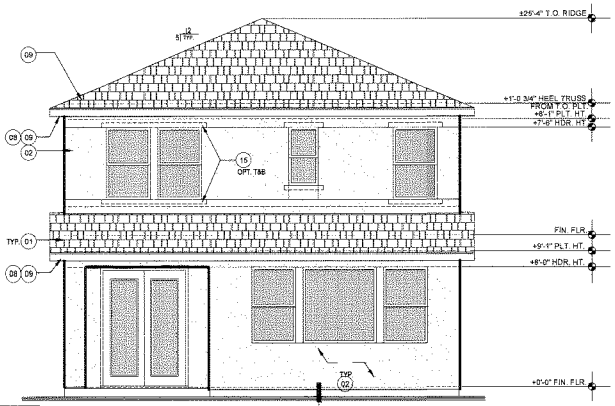
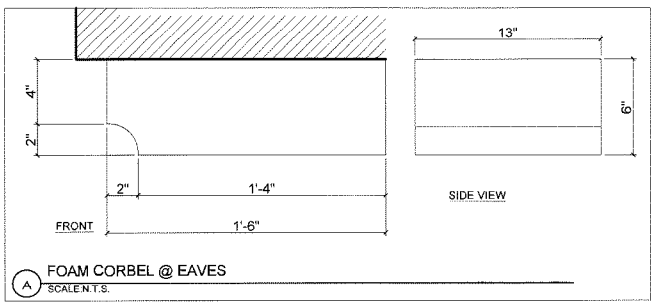
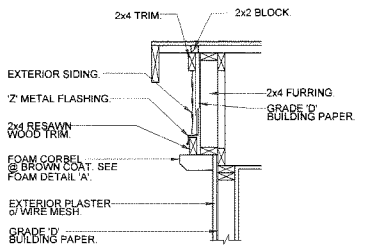



REAR ELEVATIONS
SCALE: 1/4"=1'-0"

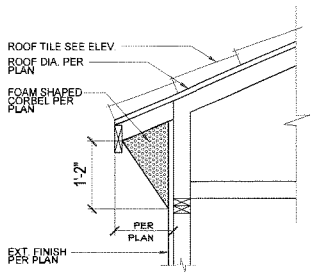
NOTE: DASHED LINES INDICATE OPT. FOAM TRIM AT WINDOWS AND ARCHITECTURAL FEATURES AT CORNER LOTS OR LOTS ADJACENT MAIN STREET. REFER TO PLOT PLANS TO IDENTIFY LOTS




A FOAM CORBEL @ EAVES
SCALE:N.T.S.




1 GABLE END CORBEL w/SIDING DETAIL




2 EAVE DETAIL

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03 ICC ESR#2568 APPROVED THERMAL B SYSTEM AT EXPOSED GABLE END AT EQ.
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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
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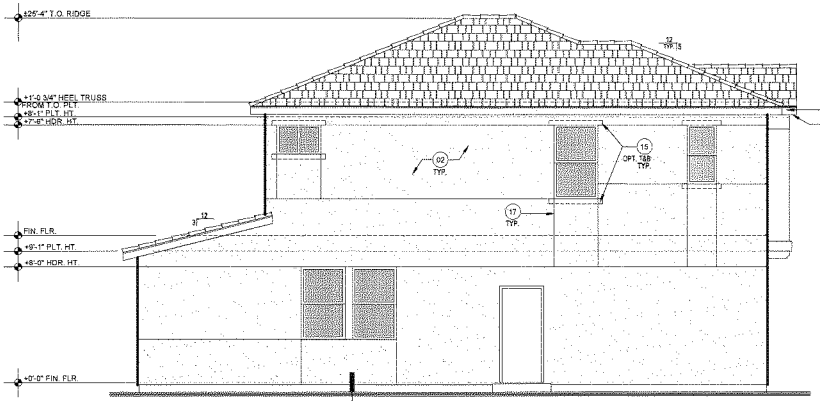
| 6 | | |

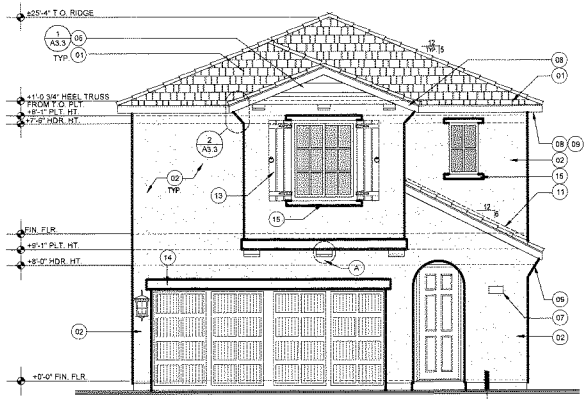
SHEET A3.5

TRACT: RIVERSTONE
HARVEST




LEFT ELEVATIONS

SCALE: 1/4"=1'-0"

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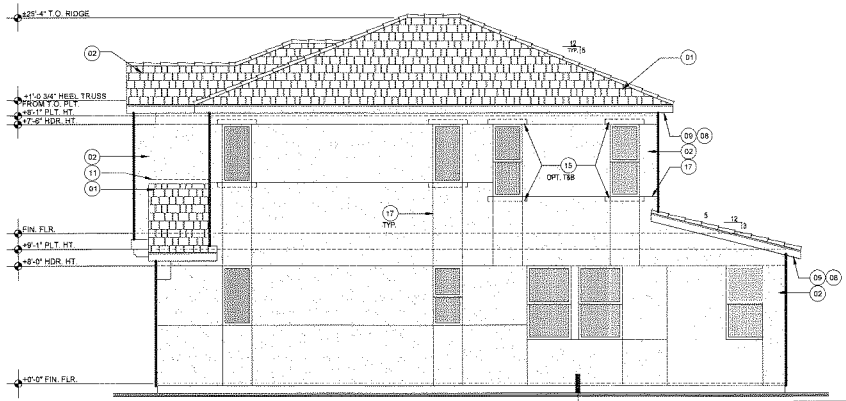


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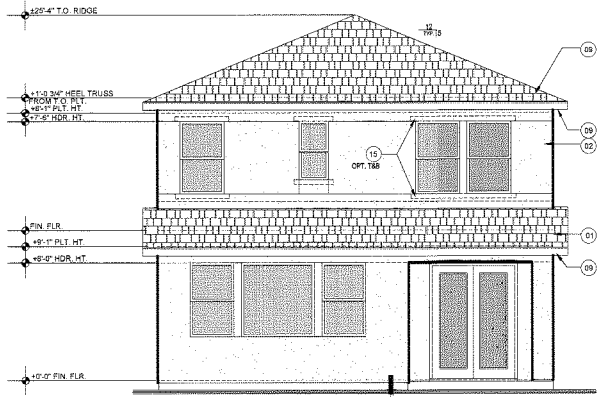


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FEB 25 2020

INTERWEST CONSULTING

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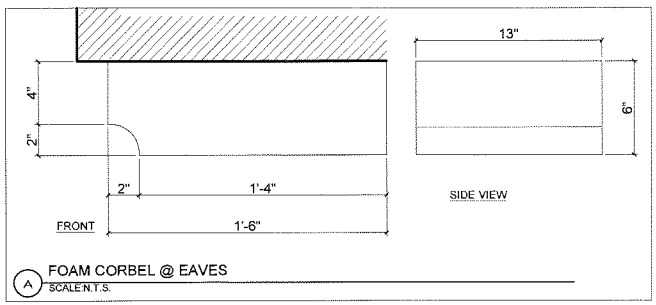
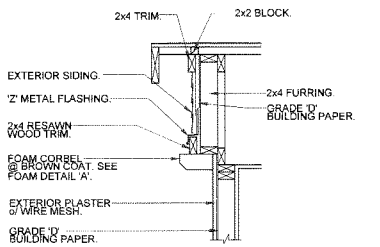
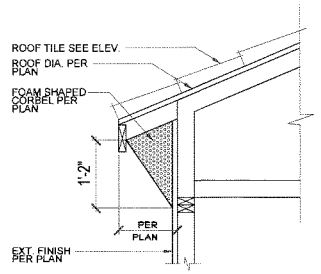



A FOAM CORBEL @ EAVES

SCALE:N.T.S.




1 GABLE END CORBEL w/SIDING DETAIL




2 EAVE DETAIL

COTTAGE - T

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PLOT DATE: 2.3.20

MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.3.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

SHEET A3.6

TRACT: RIVERSTONE

HARVEST

## DOOR SCHEDULE

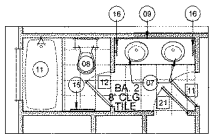
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 8'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 8'-0" | FRENCH DOOR | 0.32 | 0.23 | TEMP. |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/4" THK. SOLID CORE DOOR W/SELF CLOSURE, SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 2'-4" x 6'-8" | SINGLE | | | |
| 07 | 2'-4" x 6'-8" | SINGLE | | | |
| 08 | 2'-6" x 6'-8" | SINGLE | | | |
| 09 | 2'-6" x 6'-8" | SINGLE | | | |
| 10 | 2'-6" x 6'-8" | SINGLE | | | |
| 11 | 2'-4" x 6'-8" | SINGLE | | | |
| 12 | 2'-4" x 6'-8" | SINGLE | | | |
| 13 | 2'-4" x 6'-8" | SINGLE | | | |
| 14 | 6'-0" x 6'-8" | BI-PASS | | | |
| 15 | 5'-0" x 6'-8" | BI-PASS | | | |
| 16 | 5'-0" x 6'-8" | BI-PASS | | | |
| 17 | 5'-0" x 6'-8" | BI-FOLD | | | |
| 18 | PR. 2'-6" x 6'-8" | FRENCH DOOR | 0.32 | 0.23 | TEMP. TUSCAN & MONTEREY |
| 19 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 20 | 3'-0" x 6'-8" | FRENCH DOOR | 0.32 | 0.23 | TEMP. SPANISH |
| 21 | 2'-4" x 6'-8" | SINGLE | | | BA. 2 LINEN CLOSET |

## WINDOW SCHEDULE

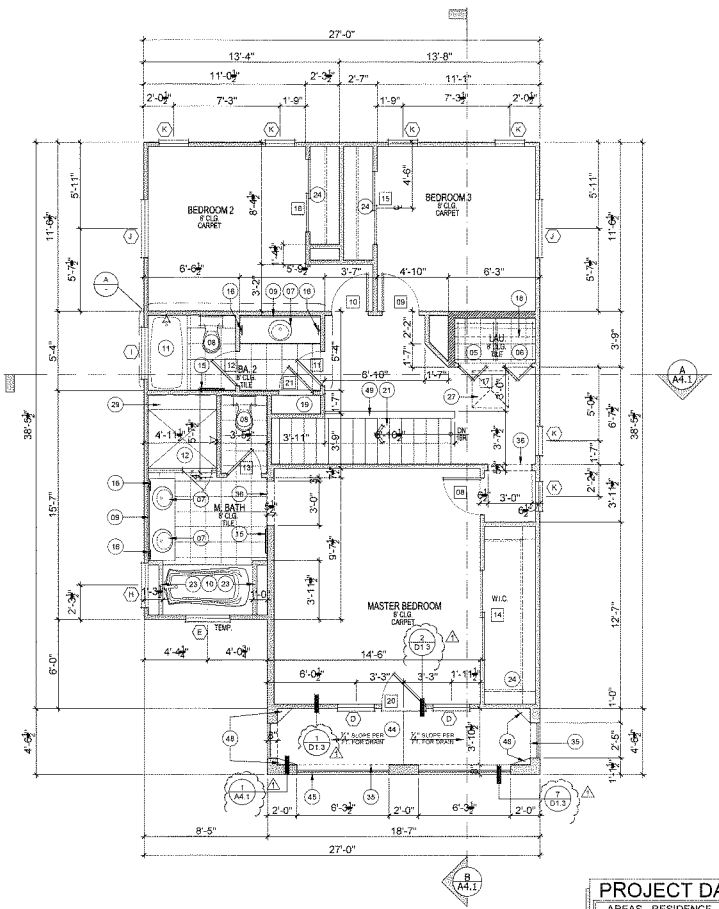
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| B | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 4'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| D | 2'-6" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. SPANISH |
| E | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH & MONTEREY |
| F | 2'-6" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | MONTEREY & TUSCAN |
| G | 2'-0" x 3'-6" | SINGLE HUNG | 0.30 | 0.22 | TUSCAN |
| H | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| I | 3'-6" x 1'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| J | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| K | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |

## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |

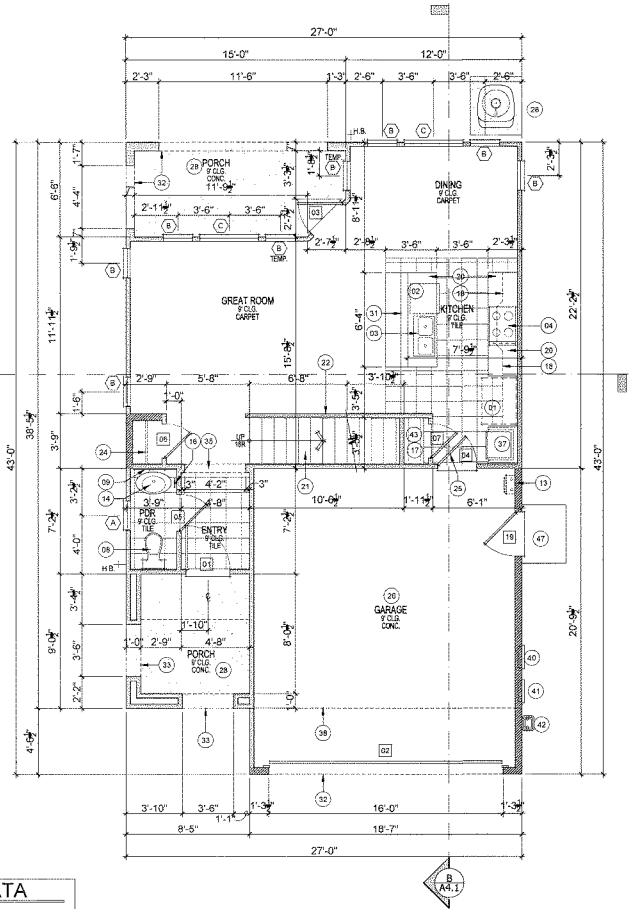



A DBL. SINK OPT. @ BATH 2




## SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"




## FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

## PROJECT DATA

| AREAS - RESIDENCE | |
|---|---|
| FIRST FLOOR | : 561 SQ.FT. |
| SECOND FLOOR | : 951 SQ.FT. |
| TOTAL FLOOR AREA | : 1512 SQ.FT. |
| GARAGE | : 392 SQ.FT. |
| PORCH | : 76 SQ.FT. |
| PATIO | : 94 SQ.FT. |

## FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP W/ HOOD ABV. (MICROW CLEARANCE ABOVE THE COOKTOP T PROTECTED, AND THE HORIZON PERMANENT MARKING LISTED ON TH
05 WASHER (N.I.C.)
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR A MIN. 4" DIA MOISTER EXHAUST DUCT PER SECTION 504.9. A (14'-0" MAX. RUN PER C.M.C. SECTION 906) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX W/ WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL)
09 VANITY MIRROR
10 "PROFLO" TUB w/TILE SPLASH & DECK
11 LASCO MODEL #1024322 FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPERATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE. 72" MIN. O/ USE OF FIBER-CEMENT, FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS. W/ 2"x6" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" TEMP DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET w/5 SHELVES
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
22 HANDRAIL/GUARDRAIL w/8" CURB - SEE DETAIL 4/D1.2.
23 HATCH INDICATES 2x4 PONY WALLS @ +36" HI. w/TILE
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS & APPLY TO ENTIRE GARAGE WALLS & CEILING
27 30"x36" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 12" WIDE TILE SHOWER SEAT @ +18" HI. SEE PLAN FOR LOCATION
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR
37 30" OVEN / MICROWAVE COMBO
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE. INTERWEST CONSULTING
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER 5/8" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS
44 WATERPROOF DECK COATING-HILLS BROS. CHECM. CO. 'DESERT-CRETE', ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO REPORT
45 +42" WROUGHT IRON RILING - SEE ELEVATION
46 OPTIONAL LAVATORY SET IN CERAMIC TILE COUNTER TOP w/CABINET BELOW
47 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BUILDING
48 PROVIDE CRICKET FOR DRAINAGE
49 2x6 HALF-WALL @ +42" w/ WOOD CAP
50 6x6 D.F. RE-SAWN POST - SEE ELEVATION

REVIEWED
FOR CODE COMPLIANCE
FEB 26 2020

## FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUB/SHOWER/PAN (TYP.)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 621 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2006 OR F 2090. THE GUARDS MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6 BkBTU/hr (2-kw) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

## WALL LEGEND

2x4 STD. GRD. STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O
2x6 STD. GRD STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O

AGENDA ITEM NO. 17.

SPANISH
7030 N. FRUIT AVE. SU
FRESNO , CALIFORNIA 937
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

BONADELLE HOMES INC.
PLAN 1512

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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | DATE | CODE UPDATE |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

SHEET A1.1

TRACT: RIVERSTONE
HARVEST

## DOOR SCHEDULE

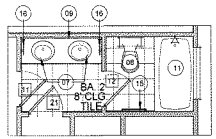
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 8'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 8'-0" | FRENCH DOOR | 0.32 | 0.23 | TEMP. |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/8" THK. SOLID CORE DOOR W/SELF CLOSURE, SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 2'-4" x 6'-8" | SINGLE | | | |
| 07 | 2'-4" x 6'-8" | SINGLE | | | |
| 08 | 2'-6" x 6'-8" | SINGLE | | | |
| 09 | 2'-6" x 6'-8" | SINGLE | | | |
| 10 | 2'-6" x 6'-8" | SINGLE | | | |
| 11 | 2'-4" x 6'-8" | SINGLE | | | |
| 12 | 2'-4" x 6'-8" | SINGLE | | | |
| 13 | 2'-4" x 6'-8" | SINGLE | | | |
| 14 | 6'-0" x 6'-8" | BI-PASS | | | |
| 15 | 5'-0" x 6'-8" | BI-PASS | | | |
| 16 | 5'-0" x 6'-8" | BI-PASS | | | |
| 17 | 5'-0" x 6'-8" | BI-FOLD | | | |
| 18 | PR. 2'-6" x 6'-8" | FRENCH DOOR | 0.32 | 0.23 | TEMP. TUSCAN & MONTEREY |
| 19 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 20 | 3'-0" x 8'-8" | FRENCH DOOR | 0.32 | 0.23 | TEMP. SPANISH |
| 21 | 2'-4" x 6'-8" | SINGLE | | | BA. 2 LINEN CLOSET |

## WINDOW SCHEDULE

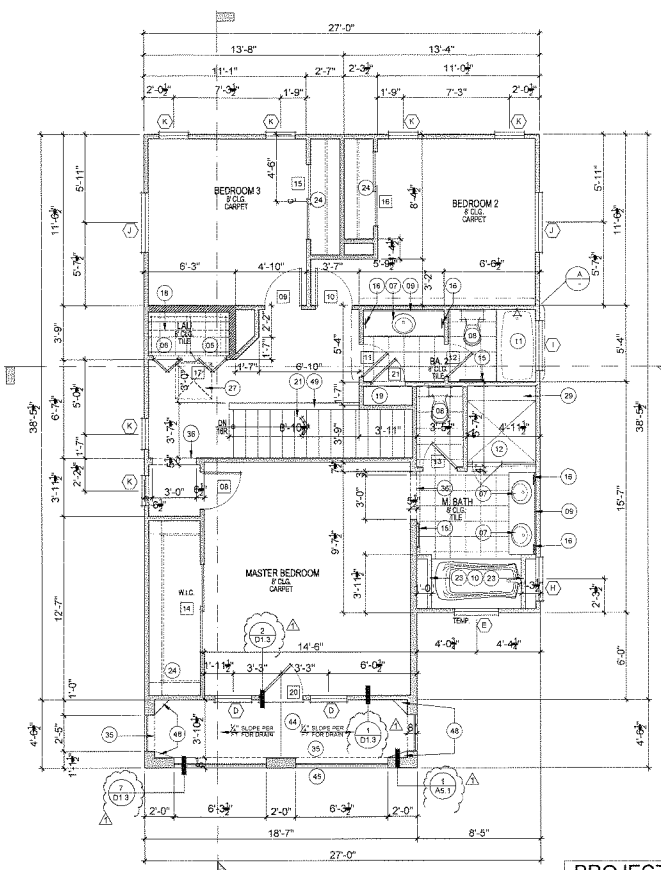
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| B | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 4'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| D | 2'-6" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. SPANISH |
| E | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH & MONTEREY |
| F | 2'-6" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | MONTEREY & TUSCAN |
| G | 2'-0" x 3'-6" | SINGLE HUNG | 0.30 | 0.22 | TUSCAN |
| H | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| I | 3'-6" x 1'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| J | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| K | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |

## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |

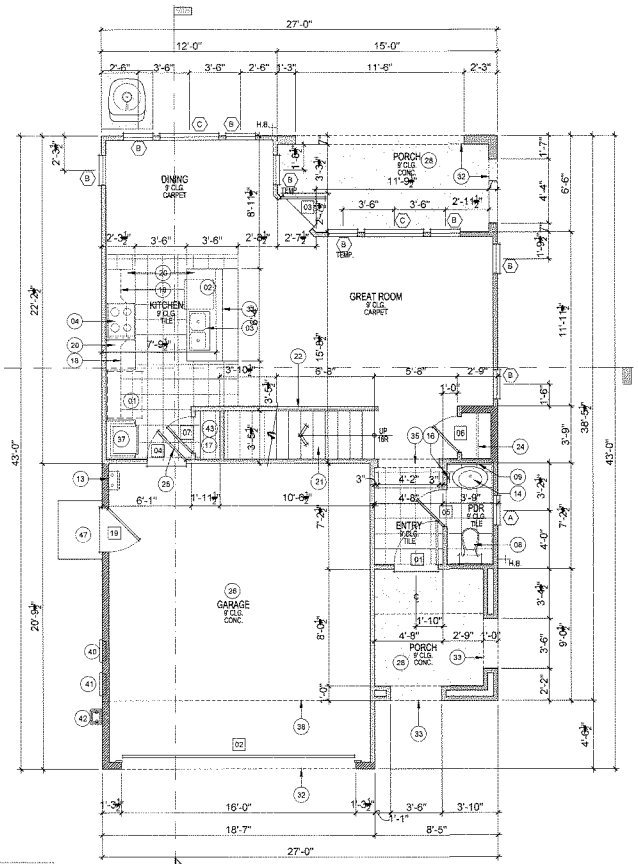



(A) DBL. SINK OPT. @ BATH 2




## SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"




## FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

## PROJECT DATA

| AREAS - RESIDENCE | |
|---|---|
| FIRST FLOOR | 561 SQ.FT. |
| SECOND FLOOR | 951 SQ.FT. |
| TOTAL FLOOR AREA | 1512 SQ.FT. |
| GARAGE | 392 SQ.FT. |
| PORCH | 76 SQ.FT. |
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## FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP w/ HOOD ABV. (MICROW CLEARANCE ABOVE THE COOKTOP T PROTECTIVES AND THE HORIZONTAL PERMANENT MARKING LISTED ON TH
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR A MIN. 4" DIA MOISTER EXHAUST DUCT PER SECTION 504.0. A (14'-0" MAX. RUN PER C.M.C. SECTION 906) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 "PROFLO" TUB w/TILE SPLASH & DECK
11 LASCO MODEL #1624422F FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPERATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
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13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET
19 LINEN CABINET w/5 SHELVES
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
22 HANDRAIL/GUARDRAIL w/8" CURB - SEE DETAIL 4/D1.2.
23 HATCH INDICATES 2x4 PONY WALLS @ +36" HI. w/TILE
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL.
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALLS & CEILING
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 12" WIDE TILE SHOWER SEAT @ +18" HI. SEE PLAN FOR LOCATION
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34½".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 30" OVEN / MICROWAVE COMBO
38 LINE OF FLOOR ABOVE.
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41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
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44 WATERPROOF DECK COATING-HILLS BROS. CHEMM. CO. 'DESERT-CRETE'. ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO REPORT
45 +42" WROUGHT IRON RILING - SEE ELEVATION
46 OPTIONAL LAVATORY SET IN CERAMIC TILE COUNTER TOP w/CABINET BELOW
47 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BUILDING
48 PROVIDE CRICKET FOR DRAINAGE
49 2x8 HALF-WALL @ +42" w/ WOOD CAP
50 6x6 D.F. RE-SAWN POST - SEE ELEVATION

REVIEWED FOR CODE COMPLIANCE
FEB 26 2020
INTERWEST CONSULTING

## FLOOR NOTES:

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8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8KBTU/hr (2kW) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2016 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

## WALL LEGEND

2x4 STD. GRD STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.
2x6 STD. GRD STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O.

AGENDA ITEM NO. 17.

SPANISH - FT
7030 N. FRUIT AVE. SU
FRESNO, CALIFORNI
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

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PLAN 1512

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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 10-1-19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |

SHEET A1.2

TRACT: RIVERSTONE
HARVEST

# DOOR SCHEDULE

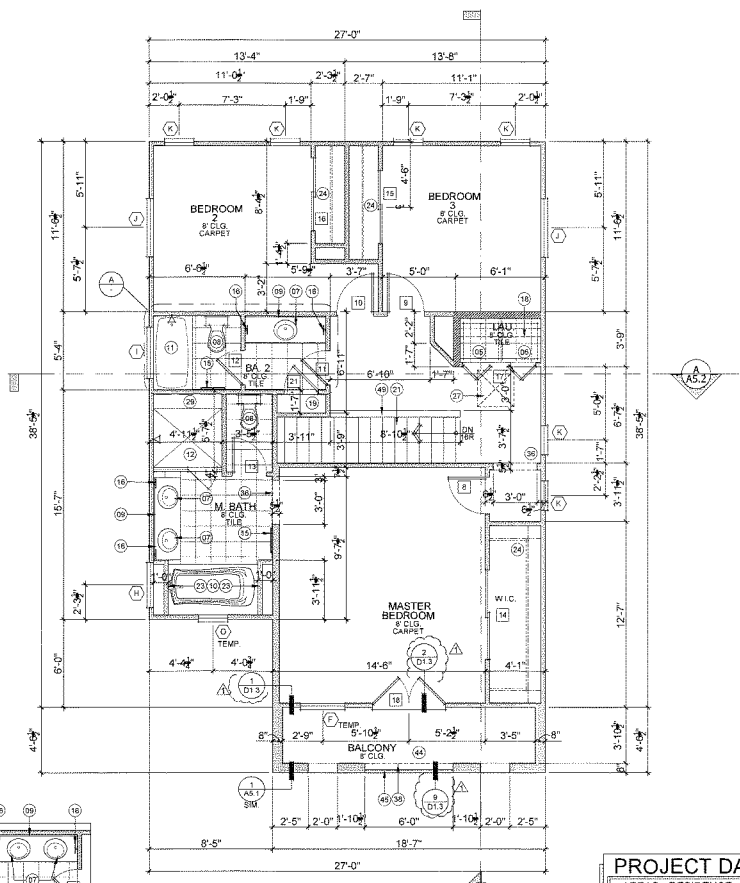
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 8'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 8'-0" | FRENCH DOOR | 0.32 | 0.23 | TEMP. |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/8" THK. SOLID CORE DOOR W/SELF CLOSURE, SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 2'-4" x 6'-8" | SINGLE | | | |
| 07 | 2'-4" x 6'-8" | SINGLE | | | |
| 08 | 2'-6" x 6'-8" | SINGLE | | | |
| 09 | 2'-6" x 6'-8" | SINGLE | | | |
| 10 | 2'-6" x 6'-8" | SINGLE | | | |
| 11 | 2'-4" x 6'-8" | SINGLE | | | |
| 12 | 2'-4" x 6'-8" | SINGLE | | | |
| 13 | 2'-4" x 6'-8" | SINGLE | | | |
| 14 | 6'-0" x 6'-8" | BI-PASS | | | |
| 15 | 5'-0" x 6'-8" | BI-PASS | | | |
| 16 | 5'-0" x 6'-8" | BI-PASS | | | |
| 17 | 5'-0" x 6'-8" | BI-POLD | | | |
| 18 | PR. 2'-6" x 6'-8" | FRENCH DOOR | 0.32 | 0.23 | TEMP. TUSCAN & MONTEREY |
| 19 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 20 | 3'-0" x 6'-8" | FRENCH DOOR | 0.32 | 0.23 | TEMP. SPANISH |
| 21 | 2'-4" x 6'-8" | SINGLE | | | BA. 2 LINEN CLOSET |

# WINDOW SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| B | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 4'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| D | 2'-6" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. SPANISH |
| E | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH & MONTEREY |
| F | 2'-6" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | MONTEREY & TUSCAN |
| G | 2'-0" x 3'-6" | SINGLE HUNG | 0.30 | 0.22 | TUSCAN |
| H | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| I | 3'-6" x 1'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| J | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| K | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |

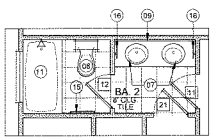
# ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING. |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |

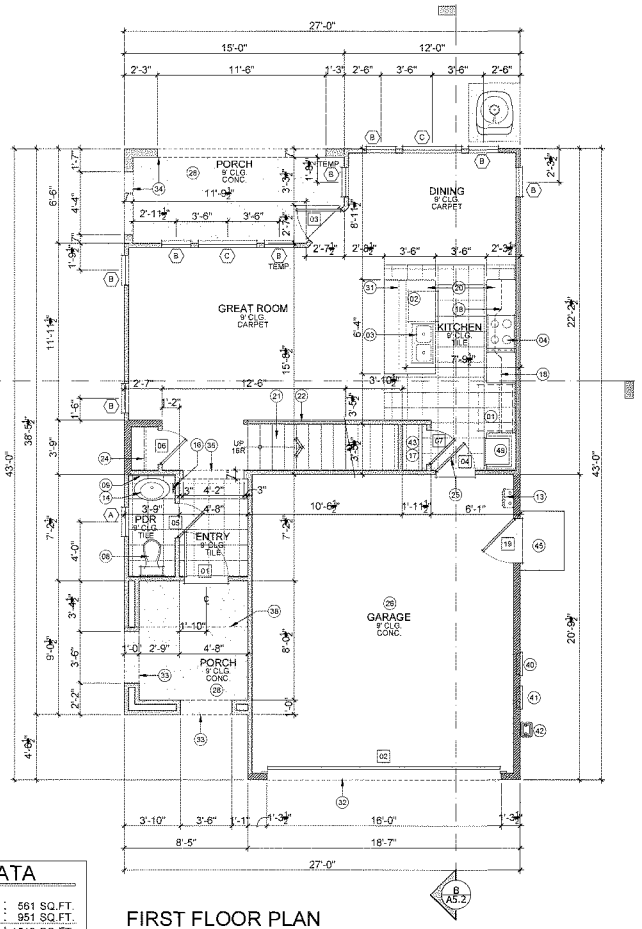



## SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"



(A) OBL. SINK OPT. @ BATH 2




## FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

# PROJECT DATA

| AREAS - RESIDENCE | |
|---|---|
| FIRST FLOOR | : 561 SQ.FT. |
| SECOND FLOOR | : 951 SQ.FT. |
| TOTAL FLOOR AREA | : 1512 SQ.FT. |
| GARAGE | : 392 SQ.FT. |
| PORCH | : 76 SQ.FT. |
| PATIO | : 94 SQ.FT. |

# FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP W/ HOOD ABV. (MICRO... CLEARANCE ABOVE THE COOKTOP ... PROJECTED, AND THE HORIZONTAL... PERMANENT MARKING LISTED ON TH...
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR A MIN. 4" DIA MOISTER EXHAUST DUCT PER SECTION 504.0 A (14'-0" MAX. RUN PER C.M.C. SECTION 806) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 "PROFLO" TUB w/TILE SPLASH & DECK
11 LASCO MODEL #1024422P FIBEROLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPERATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE. 72" MIN. OF USE OF FIBER-CEMENT, FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS. W/ 2'-9" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" TEMP DOOR. THE WATER-RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK.
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET w/5 SHELVES
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
22 HANDRAIL/GUARDRAIL w/8" CURB - SEE DETAIL 4/D1.2.
23 HATCH INDICATES 2x4 PONY WALLS @ +36" HI. w/TILE
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL.
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALLS & CEILING.
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 12" WIDE TILE SHOWER SEAT @ +18" HI. SEE PLAN FOR LOCATION
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 ½".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 30" OVEN / MICROWAVE COMBO
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER ½" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF DECK COATING-HILLS BROS. CHECM. CO. 'DESERT-CRETE'. ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO REPORT.
45 +42" WROUGHT IRON RILING - SEE ELEVATION
46 OPTIONAL LAVATORY SET IN CERAMIC TILE COUNTER TOP w/CABINET BELOW
47 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BUILDING
48 PROVIDE CRICKET FOR DRAINAGE
49 2x6 HALF-WALL @ +42" w/ WOOD CAP
50 6x6 D.F. RE-SAWN POST - SEE ELEVATION

# FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 821 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION. OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2006 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8kBTU/hr (2 kW) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

# WALL LEGEND

2x4 STD. GRD. STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.
2x6 STD. GRD.STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT.WALLS U.N.O.

AGENDA ITEM NO. 17.

REVIEWED FOR CODE COMPLIANCE
FEB 26 2020
INTERWEST CONSULTING


TUSCAN
7030 N. FRUIT AVE., SUITE 101
FRESNO, CALIFORNIA 93711
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CONTR. LIC. # 822555


BONADELLE HOMES INC.
PLAN 1512


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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |

SHEET A1.3

TRACT: RIVERSTONE

HARVEST

## DOOR SCHEDULE

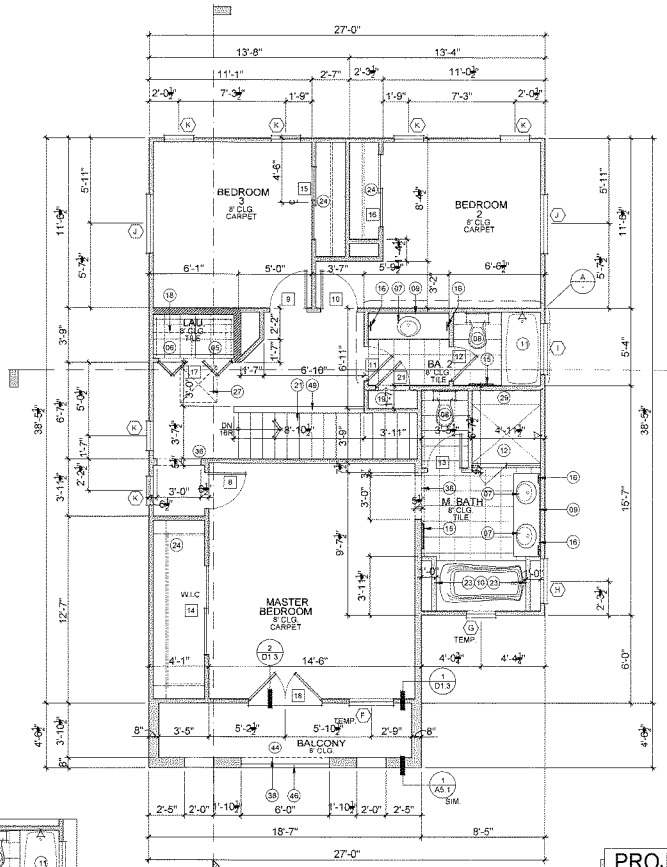
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 8'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 8'-0" | FRENCH DOOR | 0.32 | 0.23 | TEMP. |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/4" THK. SOLID CORE DOOR W/SELF CLOSURE, SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 2'-4" x 6'-8" | SINGLE | | | |
| 07 | 2'-4" x 6'-8" | SINGLE | | | |
| 08 | 2'-6" x 6'-8" | SINGLE | | | |
| 09 | 2'-6" x 6'-8" | SINGLE | | | |
| 10 | 2'-6" x 6'-8" | SINGLE | | | |
| 11 | 2'-4" x 6'-8" | SINGLE | | | |
| 12 | 2'-4" x 6'-8" | SINGLE | | | |
| 13 | 2'-4" x 6'-8" | SINGLE | | | |
| 14 | 6'-0" x 6'-8" | BI-PASS | | | |
| 15 | 5'-0" x 6'-8" | BI-PASS | | | |
| 16 | 5'-0" x 6'-8" | BI-PASS | | | |
| 17 | 5'-0" x 6'-8" | BI-FOLD | | | |
| 18 | PR. 2'-6" x 6'-8" | FRENCH DOOR | 0.32 | 0.23 | TEMP. TUSCAN & MONTEREY |
| 19 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 20 | 3'-0" x 6'-8" | FRENCH DOOR | 0.32 | 0.23 | TEMP. SPANISH |
| 21 | 2'-4" x 6'-8" | SINGLE | | | BA. 2 LINEN CLOSET |

## WINDOW SCHEDULE

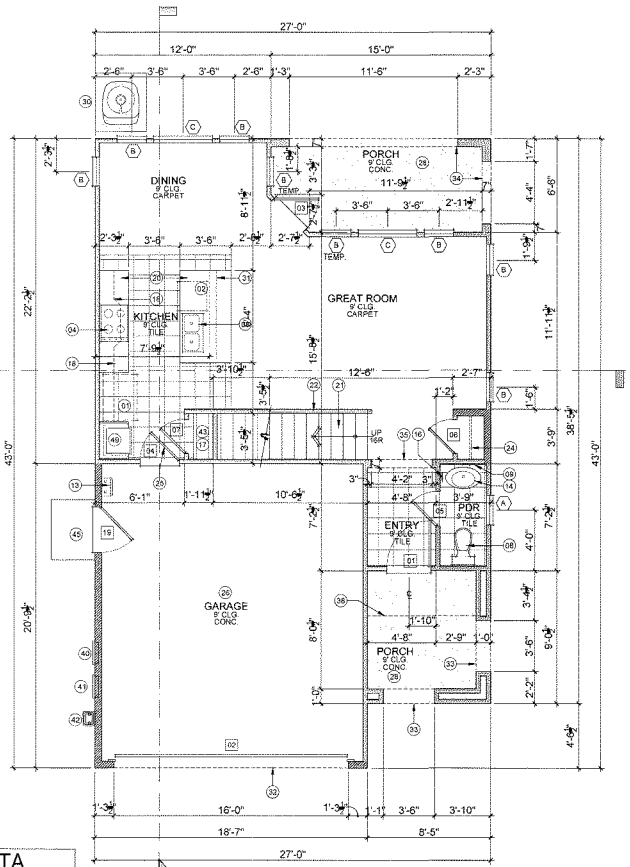
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| B | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 4'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| D | 2'-6" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. SPANISH |
| E | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH & MONTEREY |
| F | 2'-6" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | MONTEREY & TUSCAN |
| G | 2'-0" x 3'-6" | SINGLE HUNG | 0.30 | 0.22 | TUSCAN |
| H | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| I | 3'-6" x 1'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| J | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| K | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |

## ENERGY COMPLIANCE SCHEDULE

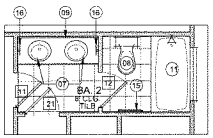
| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |




SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"




FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



Ⓐ DBL. SINK OPT. @ BATH 2

## PROJECT DATA

AREAS - RESIDENCE

| | | |
|---|---|---|
| FIRST FLOOR | : | 561 SQ.FT. |
| SECOND FLOOR | : | 951 SQ.FT. |
| TOTAL FLOOR AREA | : | 1512 SQ.FT. |
| GARAGE | : | 392 SQ.FT. |
| PORCH | : | 76 SQ.FT. |
| PATIO | : | 94 SQ.FT. |

## FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP W/ HOOD ABV. (MICROWAVE OVEN ABV.) MIN. CLEARANCE ABOVE THE COOKTOP TO COMBUSTIBLES SHALL BE PROTECTED, AND THE HORIZONTAL CLEARANCE SHALL BE AS PER MANUFACTURER PER MANENT MARKING LISTED ON THE APPLIANCE.
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR A MIN. 4" DIA MOISTER EXHAUST DUCT PER SECTION 504.0. A (14'-0" MAX. RUN PER C.M.C. SECTION 906) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 "PROFLO" TUB w/TILE SPLASH & DECK
11 LASCO MODEL #1602422P FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPERATOR TO BE TEMPERED. SEE OPTIONAL PLAN
12 SHOWER W/ TILE. 72" MIN. OI USE OF FIBER-CEMENT, FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS. W/ 2"-6" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" TEMP DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET w/5 SHELVES
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
22 HANDRAIL/GUARDRAIL w/8" CURB - SEE DETAIL 4/D1.2.
23 HATCH INDICATES 2x4 PONY WALLS @ +36" HI. w/TILE
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALLS & CEILING.
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL.
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 12" WIDE TILE SHOWER SEAT @ +18" HI. SEE PLAN FOR LOCATION
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 ½".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 30" OVEN / MICROWAVE COMBO
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER ⅝" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS
44 WATERPROOF DECK COATING-HILLS BROS. CHECM. CO. 'DESERT-CRETE'. ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO REPORT
45 +42" WROUGHT IRON RILING - SEE ELEVATION
46 OPTIONAL LAVATORY SET IN CERAMIC TILE COUNTER TOP w/CABINET BELOW
47 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BUILDING
48 PROVIDE CRICKET FOR DRAINAGE
49 2x6 HALF-WALL @ +42" w/ WOOD CAP
50 8x6 D.F. RE-SAWN POST. - SEE ELEVATION

REVIEWED
FOR CODE COMPLIANCE
FEB 26 2020
INTERWEST CONSULTING

## FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS. WITH MINIMUM 5.01 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2090 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6 BTU/hr (2-kw) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

## WALL LEGEND

2x4 STD. GRD STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.
2x6 STD. GRD STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O.

AGENDA ITEM NO. 17.


TUSCAN - LE
7030 N. FRUIT AVE. S
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PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555


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PLAN 1512


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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

SHEET A1.4

TRACT: RIVERSTONE
BY HARVEST

## DOOR SCHEDULE

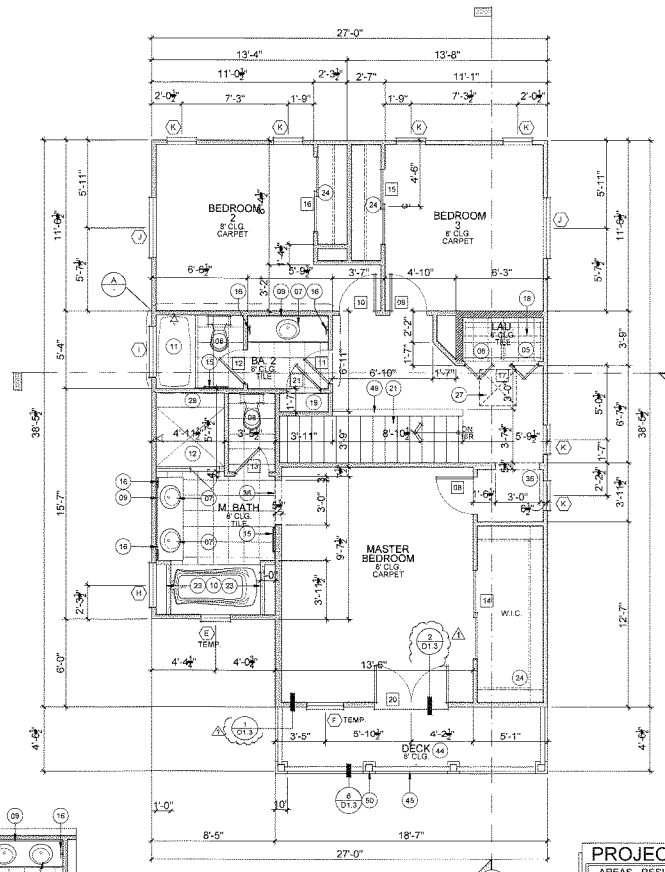
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 8'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 8'-0" | FRENCH DOOR | 0.32 | 0.23 | TEMP. |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/8" THK. SOLID CORE DOOR w/SELF CLOSURE, SELF-LATCHING, PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 2'-4" x 6'-8" | SINGLE | | | |
| 07 | 2'-4" x 6'-8" | SINGLE | | | |
| 08 | 2'-6" x 6'-8" | SINGLE | | | |
| 09 | 2'-6" x 6'-8" | SINGLE | | | |
| 10 | 2'-6" x 6'-8" | SINGLE | | | |
| 11 | 2'-4" x 6'-8" | SINGLE | | | |
| 12 | 2'-4" x 6'-8" | SINGLE | | | |
| 13 | 2'-4" x 6'-8" | SINGLE | | | |
| 14 | 6'-0" x 6'-8" | BI-PASS | | | |
| 15 | 5'-0" x 6'-8" | BI-PASS | | | |
| 16 | 5'-0" x 6'-8" | BI-PASS | | | |
| 17 | 5'-0" x 6'-8" | BI-FOLD | | | |
| 18 | PR. 2'-6" x 6'-8" | FRENCH DOOR | 0.32 | 0.23 | TEMP. TUSCAN & MONTEREY |
| 19 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 20 | 3'-0" x 6'-8" | FRENCH DOOR | 0.32 | 0.23 | TEMP. SPANISH |
| 21 | 2'-4" x 6'-8" | SINGLE | | | BA. 2 LINEN CLOSET |

## WINDOW SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| B | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 4'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| D | 2'-6" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. SPANISH |
| E | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH & MONTEREY |
| F | 2'-6" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | MONTEREY & TUSCAN |
| G | 2'-0" x 3'-6" | SINGLE HUNG | 0.30 | 0.22 | TUSCAN |
| H | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| I | 3'-6" x 1'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| J | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| K | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |

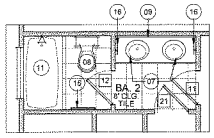
## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.93 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |

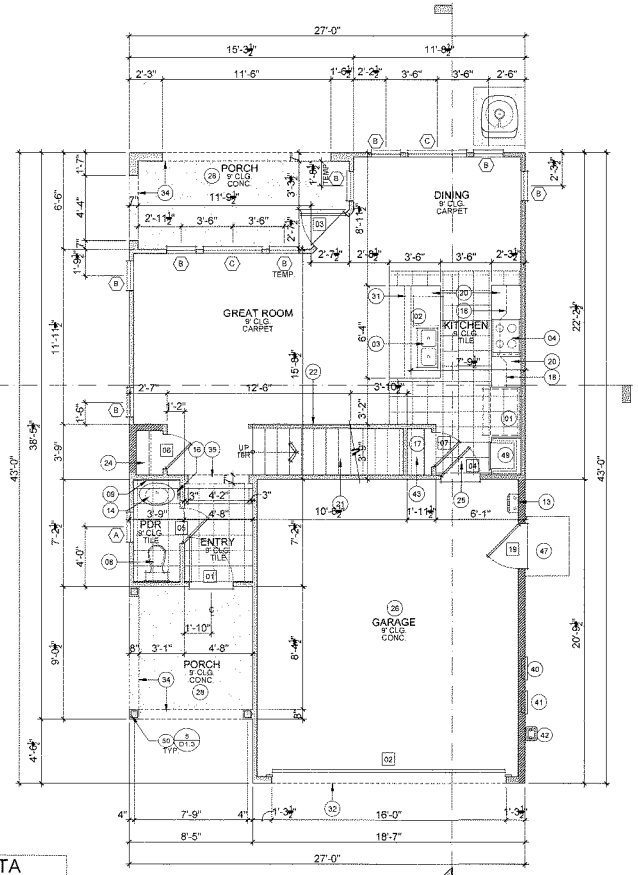



SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"




(A) DBL. SINK OPT. @ BATH 2




FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

## PROJECT DATA

AREAS - RESIDENCE

| | | |
|---|---|---|
| FIRST FLOOR | : | 561 SQ.FT. |
| SECOND FLOOR | : | 951 SQ.FT. |
| TOTAL FLOOR AREA | : | 1512 SQ.FT. |
| GARAGE | : | 392 SQ.FT. |
| BALCONY | : | 84 SQ.FT. |
| PORCH | : | 76 SQ.FT. |
| PATIO | : | 94 SQ.FT. |

## FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP w/ HOOD ABV. (MICRO/HOOD COMBO MAY BE USED IF CLEARANCE ABOVE THE COOKTOP IS PROTECTED, AND THE HORIZONTAL PERMANENT MARKING LISTED ON TH
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR A MIN. 4" DIA MOISTER EXHAUST DUCT PER SECTION 504.0 A (14'-0" MAX. RUN PER C.M.C. SECTION 908) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 "PROFLO" TUB w/TILE SPLASH & DECK
11 LASCO MODEL #1524229P FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPERATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE. 72" MIN. O/ USE OF FIBER-CEMENT, FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS. W/ 2"-9" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN. 22" TEMP DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.93 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET w/5 SHELVES
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
22 HANDRAIL/GUARDRAIL w/6" CURB - SEE DETAIL 4/D1.2.
23 HATCH INDICATES 2x4 PONY WALLS @ +36" Ht. w/TILE
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL.
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALLS & CEILING.
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL.
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 12" WIDE TILE SHOWER SEAT @ +18" +/l. SEE PLAN FOR LOCATION
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 1/2".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 30" OVEN / MICROWAVE COMBO
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF DECK COATING-HILLS BROS. CHEC/M. CO. 'DESERT-CRETE', ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO REPORT
45 +42" WROUGHT IRON RILING - SEE ELEVATION
46 OPTIONAL LAVATORY SET IN CERAMIC TILE COUNTER TOP w/CABINET BELOW
47 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BUILDING
48 PROVIDE CRICKET FOR DRAINAGE
49 2x6 HALF-WALL @ +42" w/ WOOD CAP
50 6x6 D.F. RE-SAWN POST - SEE ELEVATION

## FLOOR NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 821 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2006 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL.
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8kBTU/hr (2-kw) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)5
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

## WALL LEGEND

2x4 STD. GRD STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O

2x6 STD. GRD STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT. WALLS U.N.O.

REVIEWED FOR CODE COMPLIANCE

FEB 26 2020

INTERWEST CONSULTING

AGENDA ITEM NO. 17.


MONTE
7030 N. FRUIT AVE. SU
FRESNO, CALIFORNIA
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555


BONADELLE HOMES INC.

PLAN 1512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PLOT DATE: 2.3.20

MASTER PLAN NO.:

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

SHEET A1.5

TRACT: RIVERSTONE

HARVEST

# DOOR SCHEDULE

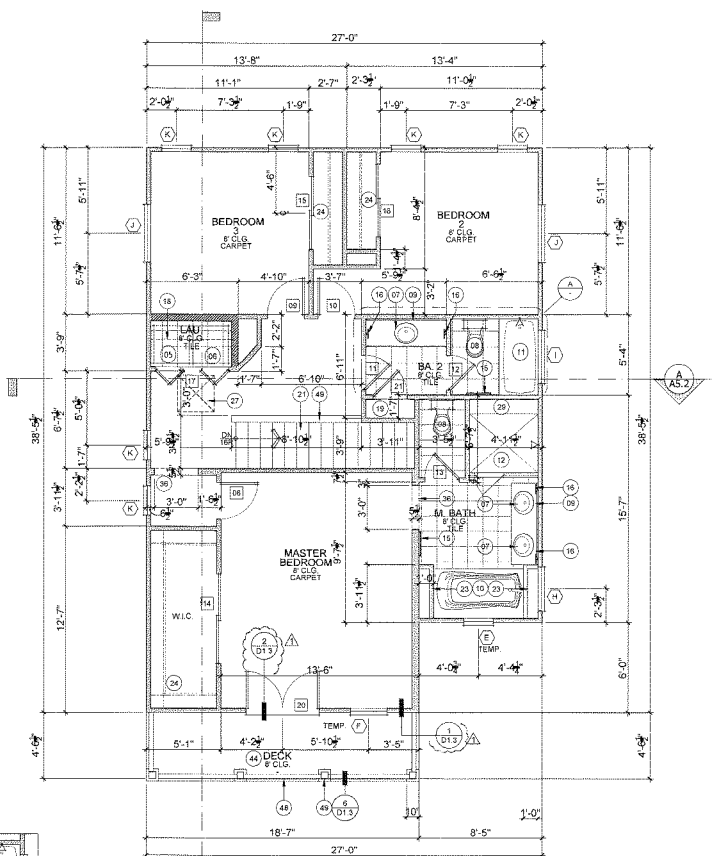
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 8'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 8'-0" | FRENCH DOOR | 0.32 | 0.23 | TEMP. |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/8" THK. SOLID CORE DOOR W/SELF CLOSURE, SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-4" x 6'-8" | SINGLE | | | |
| 06 | 2'-4" x 6'-8" | SINGLE | | | |
| 07 | 2'-4" x 6'-8" | SINGLE | | | |
| 08 | 2'-6" x 6'-8" | SINGLE | | | |
| 09 | 2'-6" x 6'-8" | SINGLE | | | |
| 10 | 2'-6" x 6'-8" | SINGLE | | | |
| 11 | 2'-4" x 6'-8" | SINGLE | | | |
| 12 | 2'-4" x 6'-8" | SINGLE | | | |
| 13 | 2'-4" x 6'-8" | SINGLE | | | |
| 14 | 6'-0" x 6'-8" | BI-PASS | | | |
| 15 | 5'-0" x 6'-8" | BI-PASS | | | |
| 16 | 5'-0" x 6'-8" | BI-PASS | | | |
| 17 | 5'-0" x 6'-8" | BI-FOLD | | | |
| 18 | PR. 2'-6" x 6'-8" | FRENCH DOOR | 0.32 | 0.23 | TEMP. TUSCAN & MONTEREY |
| 19 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 20 | 3'-0" x 6'-8" | FRENCH DOOR | 0.32 | 0.23 | TEMP. SPANISH |
| 21 | 2'-4" x 6'-8" | SINGLE | | | BA. 2 LINEN CLOSET |

# WINDOW SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| B | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 4'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| D | 2'-6" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | TEMP. SPANISH |
| E | 2'-0" x 3'-0" | SINGLE HUNG | 0.30 | 0.22 | SPANISH & MONTEREY |
| F | 2'-6" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | MONTEREY & TUSCAN |
| G | 2'-0" x 3'-6" | SINGLE HUNG | 0.30 | 0.22 | TUSCAN |
| H | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| I | 3'-6" x 1'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| J | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | |
| K | 2'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |

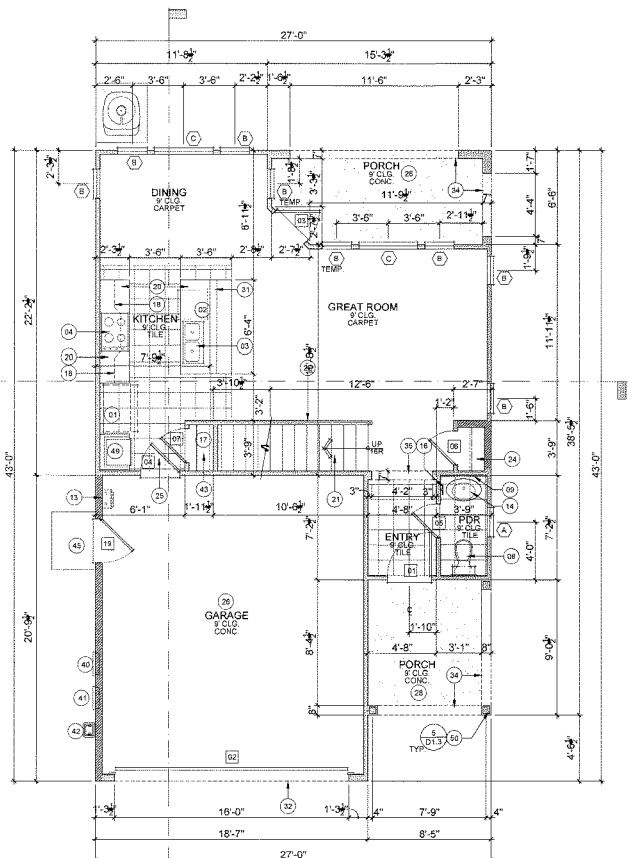
# ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-6.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |



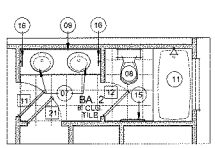

SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"




FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"




(A) DBL. SINK OPT. @ BATH 2

## PROJECT DATA

| AREAS - RESIDENCE | | |
|---|---|---|
| FIRST FLOOR | : | 561 SQ.FT. |
| SECOND FLOOR | : | 951 SQ.FT. |
| TOTAL FLOOR AREA | : | 1512 SQ.FT. |
| GARAGE | : | 392 SQ.FT. |
| BALCONY | : | 84 SQ.FT. |
| PORCH | : | 76 SQ.FT. |
| PATIO | : | 94 SQ.FT. |

## FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP W/ HOOD ABV. (MICROWAVE OVEN OPT.) CLEARANCE ABOVE THE COOKTOP TO COMBUSTIBLES SHALL BE PROTECTED, AND THE HORIZONTAL SURFACE SHALL HAVE A PERMANENT MARKING LISTED ON THE
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR A MIN. 4" DIA MOISTER EXHAUST DUCT PER SECTION 504.2. A (14'-0" MAX. RUN PER C.M.C. SECTION 906) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 "PROFLO" TUB w/TILE SPLASH & DECK
11 LASCO MODEL #1024222P FIBERGLASS TUB/ SHOWER COMBO UNIT, INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPERATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE. 72" MIN. O/ USE OF FIBER-CEMENT,FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS . W/ 2'-6" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" TEMP DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.6.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET w/5 SHELVES
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
22 HANDRAIL/GUARDRAIL w/8" CURB - SEE DETAIL 4/D1.2.
23 HATCH INDICATES 2x4 PONY WALLS @ +36" HI. w/TILE
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL.
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALLS & CEILING.
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 12" WIDE TILE SHOWER SEAT @ +18" HI. SEE PLAN FOR LOCATION
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 ½"
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 30" OVEN / MICROWAVE COMBO
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER ½" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF DECK COATING-HILLS BROS. CHECM. CO. 'DESERT-CRETE'. ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO REPORT.
45 +42" WROUGHT IRON RILING - SEE ELEVATION
46 OPTIONAL LAVATORY SET IN CERAMIC TILE COUNTER TOP w/CABINET BELOW
47 SLOPE SURFACE AWAY FROM DOOR. (MIN. 1/4" PER FOOT)

REVIEWED FOR CODE COMPLIANCE
FEB 26 2020
INTERWEST CONSULTING

## FLOOR NOTES:

1 GENERAL CONTRACTORS RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2 SEE SHEETS FOR GENERAL NOTES
3 SEE SHEETS FOR GENERAL NOTES
4 ALL 2-0 X 6-0 WINDOWS ARE REQUIRED TO BE TEMPERED W/ SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS. (OPTIONAL)
5 MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 821 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6 WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2006 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7 PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8 INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8kBTU/hr (2kW) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY, AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9 GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

## WALL LEGEND

2x4 STD GRD. STUDS @16" O.C. W/R-15 INSULATION @EXT. WALLS U.N.O.
2x6 STD GRD.STUDS @16" O.C. W/R-19 INSULATION @ EXT./INT WALLS U.N.O.

AGENDA ITEM NO. 17.


MONTEREY
7030 N. FRUIT AVE. SUITE 101
FRESNO, CALIFORNIA 93711
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. #822555


BONADELLE HOMES INC.

PLAN 1512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PLOT DATE: 2.3.20

MASTER PLAN NO.

REVISIONS

| | DATE | CODE UPDATE |
|---|---|---|
| 1 | 7.2.19 | |
| 2 | | |
| 3 | | |
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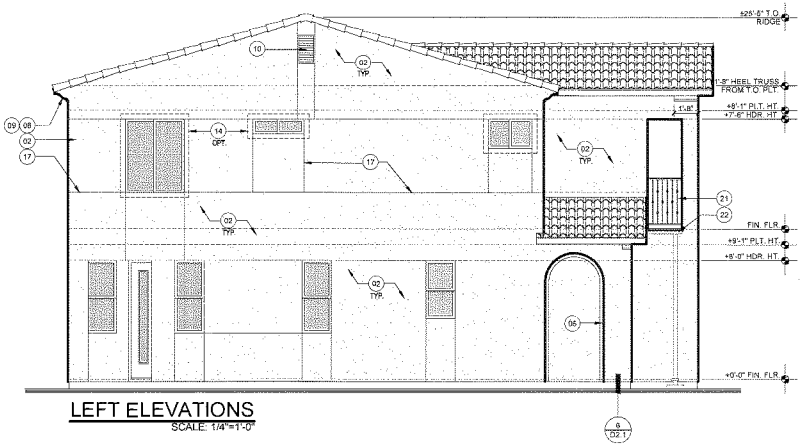
| 6 | | |

SHEET A1.6

TRACT: RIVERSTONE

HARVEST




LEFT ELEVATIONS
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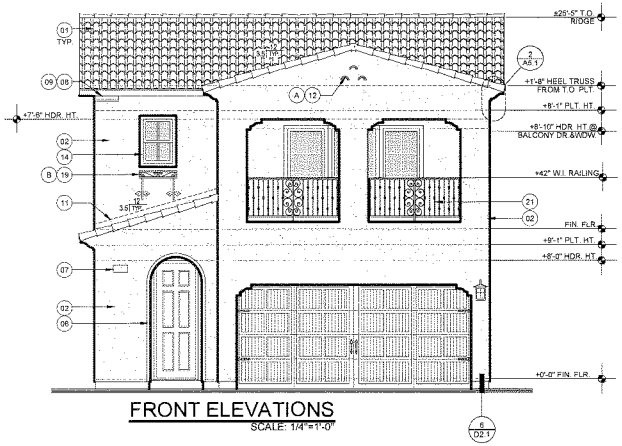
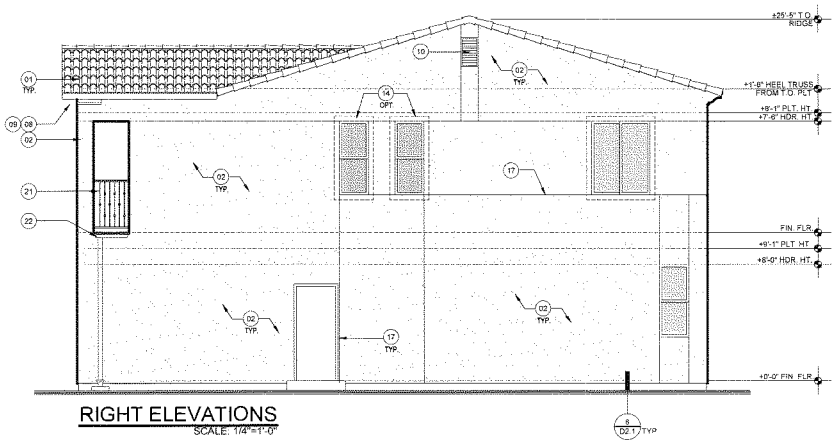



FRONT ELEVATIONS
SCALE: 1/4"=1'-0"




RIGHT ELEVATIONS
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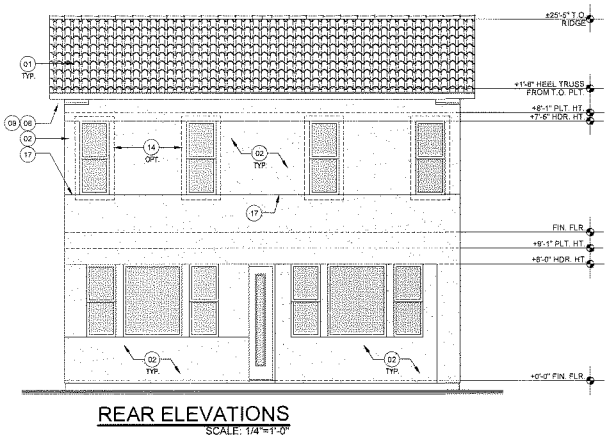
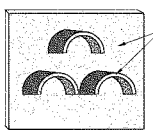
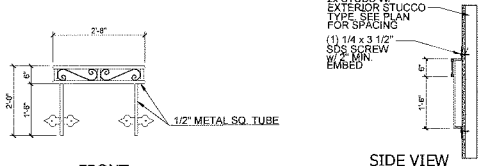



REAR ELEVATIONS
SCALE: 1/4"=1'-0"




Ⓐ ARCHITECTURAL FEATURE
SCALE : N.T.S.




Ⓑ ARCHITEURAL DECORATIVE WROUGHT IRON @ FRONT WINDOW

## ELEVATION KEYNOTES

01 TILE ROOF MATERIAL ICC # ESR 1647 OR EQUAL TO COMPLY WITH 2019 CRC R904, R905 SEE ROOF FRAMING PLAN
02 2-COAT CEMENT PLASTER o/1" THK. FOAM w/ (2) LAYER GRADE "D" PAPER UNDER THE CEMENT PLASTER COVERING WHERE [illegible] WEEP SCREED. APPLY CEMENT PLASTER TO CEILINGS, OVERHANGS, AND OTHER
03 ICC ESR#2568 APPROVED THERMAL B[illegible] SYSTEM AT EXPOSED GABLE END AT[illegible] EQ
04 MANUFACTURED STONE VENEER. ELDORADO STONE VENEER. LIGHTW[illegible] IRON OXIDES. CODE CERTIFICATION ESR-1215 FAIVA MATERIAL RELEASE #910. UNDERWRITER'S LABORATORIES CLASSIFICATION #546T. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH w/ ONE PART TYPE "M" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT.
05 1x LAP SIDING o/1/2" BUILDING PAPER. INSTALLED PER MANUFACTURERS SPECIFICATIONS
06 DECORATIVE PRE-CAST SURROUND. INSTALL PER MANUFACTURE'S SPECIFICATIONS
07 ILLUMINATED ADDRESS LOCATION
08 2x6 FASCIA / BARGE BD. (TYP.)
09 12" OVERHANG U.N.O.
10 GABLE END VENT - SEE ROOF FRAMING PLAN FOR VENTING CALCS
11 G.I. SHEET METAL FLASHING AND COUNTER FLASHING AS REQUIRED (2019 CRC 1503.2)
12 DECORATIVE (3) 4"x6"x4" DP. ARCHITECTURAL FOAM FEATURES
13 DECORATIVE SHUTTERS TYPICAL
14 FOAM w/ STUCCO FINISH
15 2x4 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR/WINDOW OPENING
16 2x8 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR
17 1/2" EXPANSION JOINTS INSTALLED @ TIME OF LATH
18 +42" WD. GUARDRAIL - PER PLAN
19 WROUGHT IRON DECORATIVE FEATURE - INSTALLED PER MANUFACTURER'S SPECIFICATIONS
20 6x6 D.F. RE-SAWN POST
21 +42" W.I. GUARDRAIL - PER PLAN

## RADIANT BARRIERS

01 RADIANT BARRIERS: LOUISIANA PACIFIC TECHSHIELD. CALIFORNIA DEPARTMENT OF CONSUMER AFFAIRS CERTIFIED #CA-1370.
02 THE RADIANT BARRIER MUST HAVE AN EMISSIVITY OF 0.05 OR LESS. RADIANT BARRIER MUST BE INSTALLED TO COVER ROOF RAFTERS, TRUSSES, GABLE END WALLS, ALL VERTICAL ATTIC SURFACES AND MUST MEET ATTIC VENTILATION CRITERIA.
03 THE ATTIC VENTILATION SHALL BE INCREASED TO 1/300 OF ATTIC AREA WITH HIGH/LOW VENTILATION.
04 ICBO APPROVED THERMAL BARRIER PROTECTION BEHIND ONE COAT STUCCO SYSTEM AT EXPOSED GABLE END ATTIC SPACE OR 1/2" SHEET ROCK (2019 CBC 2602.4)

## ELEVATION NOTES

1 CONTRACTOR TO PROVIDE ADDITIONAL STUCCO JOINTS AS NEEDED TO MINIMIZE CRACKING.
2 PROVIDE G.I. SHEET METAL FLASHING AND COUNTER-FLASHING AS REQUIRED COMPLY TO 2019 CRC
3 ALL WINDOWS TO BE DUAL GLAZED VINYL "LOW-E" w/ FINISH PER DEVELOPER - PROVIDE MUNTINS AS SHOWN.
4 PROVIDE FOAM TRIM AT ALL WINDOWS AND ANY ARCHITECTURAL FEATURES TO MATCH THE FRONT ON CORNER LOTS OR LOTS ADJACENT THE MAIN STREET REFER TO PLOT PLANS TO IDENTIFY WHICH LOTS

AGENDA ITEM NO. 17.

REVIEWED
FOR CODE COMPLIANCE
FEB 26 2020
INTERWEST CONSULTING

SPANISH
7030 N. FRUIT AVE. SU[illegible]
FRESNO, CALIFORNIA [illegible]
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

BONADELLE HOMES INC.
PLAN 1512

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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | DATE | CODE UPDATE |
|---|---|---|
| 1 | | |
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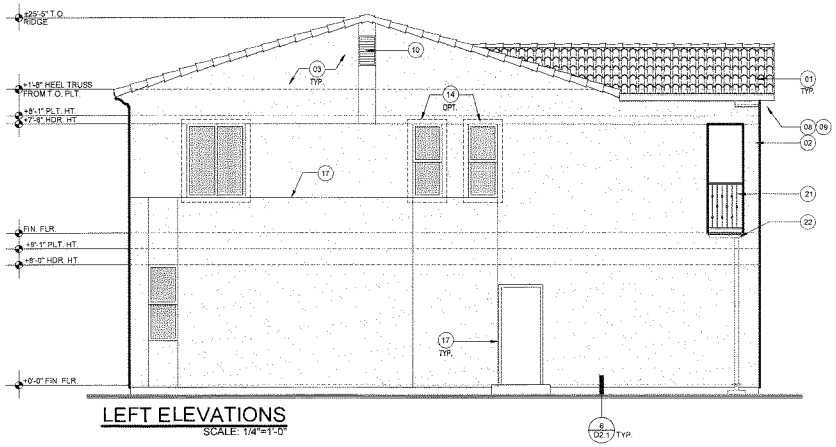
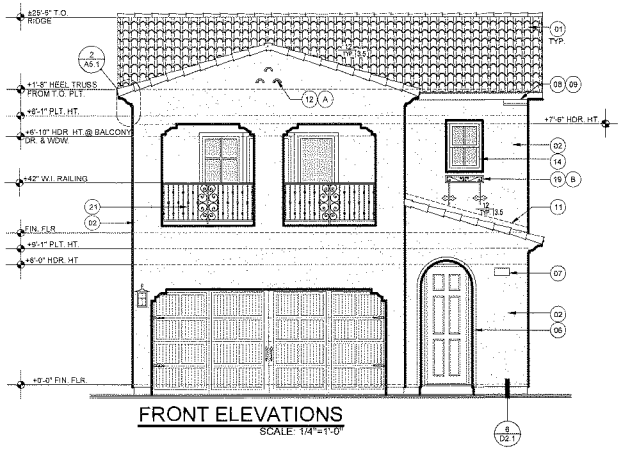
SHEET A3.1

TRACT: RIVERSTONE
HARVEST




## LEFT ELEVATIONS
SCALE: 1/4"=1'-0"

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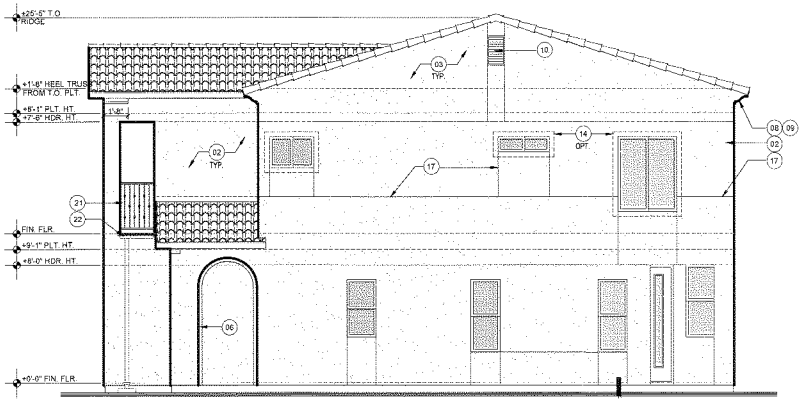
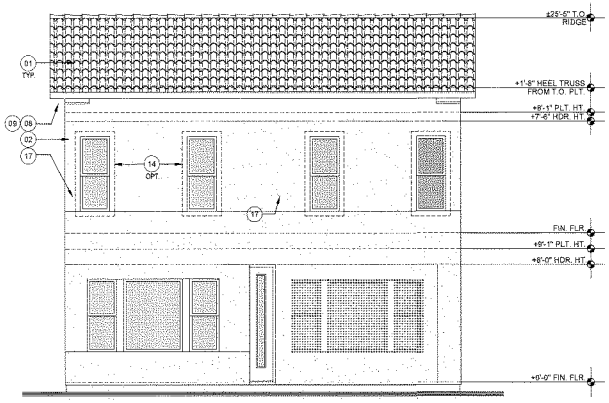
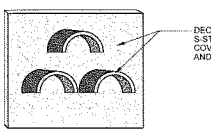



## RIGHT ELEVATIONS
SCALE: 1/4"=1'-0"

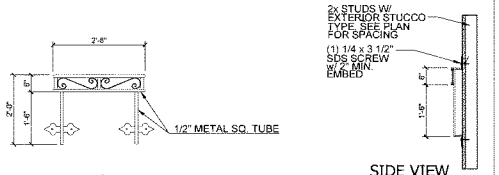



## REAR ELEVATIONS
SCALE: 1/4"=1'-0"

NOTE: DASHED LINES INDICATE OPT. FOAM TRIM AT WINDOWS AND ARCHITECTURAL FEATURES AT CORNER LOTS OR LOTS ADJACENT MAIN STREET. REFER TO PLOT PLANS TO IDENTIFY LOTS




Ⓐ ARCHITECTURAL FEATURE
SCALE : N.T.S.




Ⓑ ARCHITEURAL DECORATIVE WROUGHT IRON @ FRONT WINDOW

## ELEVATION KEYNOTES

01 TILE ROOF MATERIAL ICC # ESR 1647 OR EQUAL TO COMPLY WITH 2019 CRC R904. R905 SEE ROOF FRAMING PLAN
02 2-COAT CEMENT PLASTER o/1" THK. FOAM w/ (2) LAYER GRADE "D" PAPER UNDER THE CEMENT PLASTER COVERING WHEN APPLIED OVER WOOD SHEATHING w/ LATH AND WEEP SCREED APPLY CEMENT PLASTER TO ALL EXTERIOR WALLS, SOFFITS, CEILINGS, OVERHANGS, AND OTHER
03 ICC ESR#2586 APPROVED THERMAL S SYSTEM AT EXPOSED GABLE END AT R-2
04 MANUFACTURED STONE VENEER ELDORADO STONE VENEER, LIGHTW IRON OXIDES, CODE CERTIFICATION, ESR-1215 FAVVA MATERIAL RELEASE #910 UNDERWRITER'S LABORATORIES CLASSIFICATION #5467. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH w/ ONE PART TYPE "M" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT
05 1x LAP SIDING o/15# BUILDING PAPER INSTALLED PER MANUFACTURERS SPECIFICATIONS
06 DECORATIVE PRE-CAST SURROUND. INSTALL PER MANUFACTURE'S SPECIFICATIONS
07 ILLUMINATED ADDRESS LOCATION
08 2x6 FASCIA / BARGE BD. (TYP.)
09 12" OVERHANG U.N.O.
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14 FOAM w/ STUCCO FINISH
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17 1/2" EXPANSION JOINTS INSTALLED @ TIME OF LATH
18 +42" WD. GUARDRAIL - PER PLAN
19 WROUGHT IRON DECORATIVE FEATURE - INSTALLED PER MANUFACTURER'S SPECIFICATIONS
20 6x6 D.F. RE-SAWN POST
21 +42" W.I. GUARDRAIL - PER PLAN

## RADIANT BARRIERS

01 RADIANT BARRIERS: LOUISIANA PACIFIC TECHSHIELD. CALIFORNIA DEPARTMENT OF CONSUMER AFFAIRS CERTIFIED #CA-T370.
02 THE RADIANT BARRIER MUST HAVE AN EMISSIVITY OF 0.05 OR LESS. RADIANT BARRIER MUST BE INSTALLED TO COVER ROOF RAFTERS, TRUSSES, GABLE END WALLS, ALL VERTICAL ATTIC SURFACES AND MUST MEET ATTIC VENTILATION CRITERIA.
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## ELEVATION NOTES

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AGENDA ITEM NO. 17.

REVIEWED
FOR CODE COMPLIANCE
FEB 26 2020
INTERWEST CONSULTING

SPANISH - L
7030 N. FRUIT AVE. SU
FRESNO, CALIFORNI
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

BONADELLE HOMES INC.
PLAN 1512

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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS
1 12.3.19 CODE UPDATE
2
3
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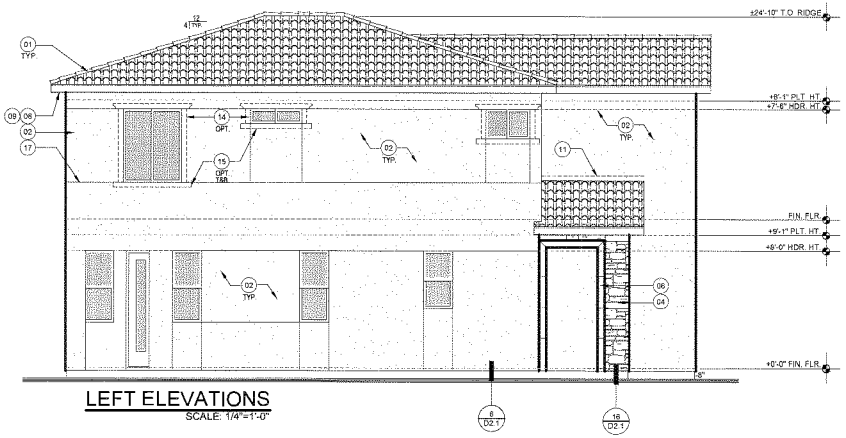
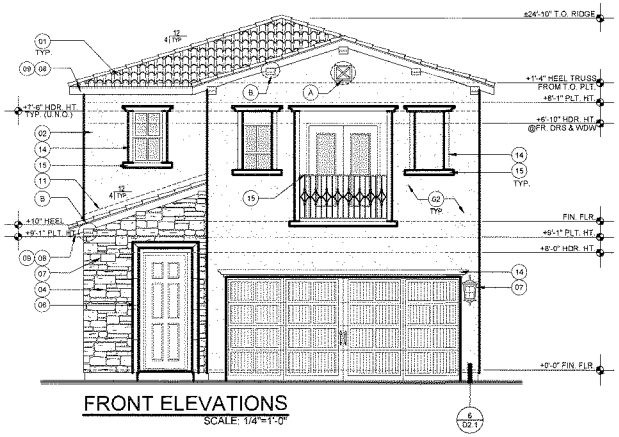
7

SHEET A3.2

TRACT: RIVERSTONE
HARVEST




## LEFT ELEVATIONS
SCALE: 1/4"=1'-0"

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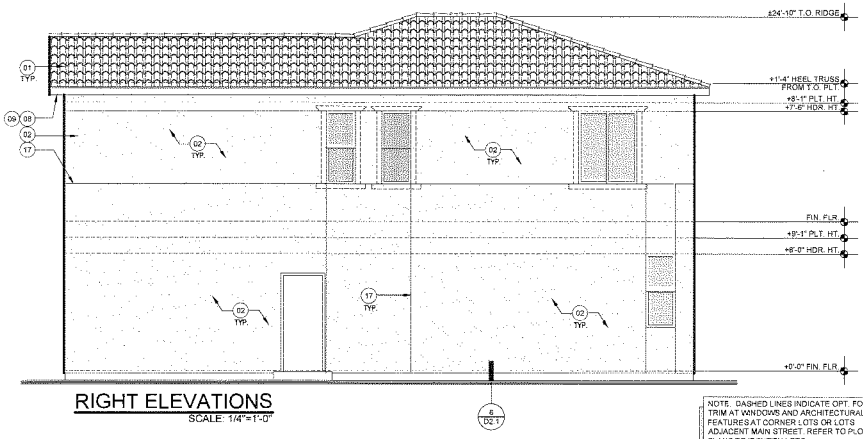


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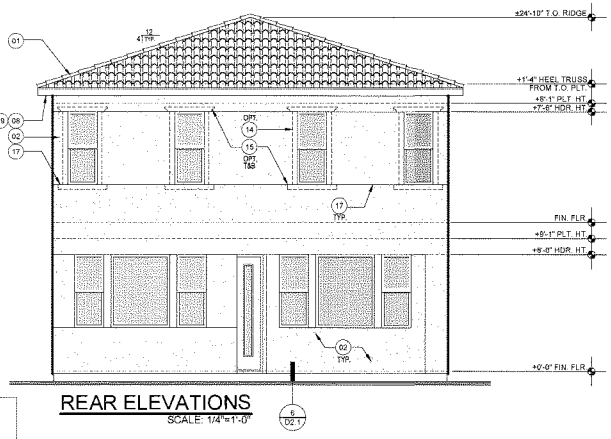
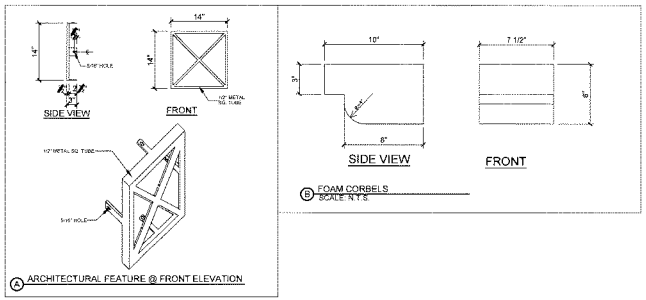



## REAR ELEVATIONS
SCALE: 1/4"=1'-0"

NOTE: DASHED LINES INDICATE OPT. FOAM TRIM AT WINDOWS AND ARCHITECTURAL FEATURES AT CORNER LOTS OR LOTS ADJACENT MAIN STREET. REFER TO PLOT PLANS TO IDENTIFY LOTS




Ⓐ ARCHITECTURAL FEATURE @ FRONT ELEVATION

Ⓑ FOAM CORBELS
SCALE: N.T.S.

## ELEVATION KEYNOTES

01 TILE ROOF MATERIAL ICC # ESR 1647 OR EQUAL TO COMPLY WITH 2019 CRC R804, R905 SEE ROOF FRAMING PLAN
02 2-COAT CEMENT PLASTER o/1" THK. FOAM w/ (2) LAYER GRADE "D" PAPER UNDER THE CEMENTPLASTER COVERING WHEN WEEP SCREED APPLY CEMENT PLAS CEILINGS, OVERHANGS AND OTHER
03 ICC ESR#2586 APPROVED THERMAL SYSTEM AT EXPOSED GABLE END A EQ
04 MANUFACTURED STONE VENEER, ELDORADO STONE VENEER. LIGHTW IRON OXIDES. CODE CERTIFICATION: ESR-1215 FAMA MATERIAL RELEASE #512 UNDERWRITERS LABORATORIES CLASSIFICATION #5467. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH w/ ONE PART TYPE "N" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT.
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12 DECORATIVE (3) 4"x6"x4" DP. ARCHITECTURAL FOAM FEATURES
13 DECORATIVE SHUTTERS TYPICAL
14 FOAM w/ STUCCO FINISH
15 2x4 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR/WINDOW OPENING
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20 6x6 D.F. RE-SAWN POST
21 +42" W.I. GUARDRAIL - PER PLAN

REVIEWED
FOR CODE COMPLIANCE

FEB 26 2020

INTERWEST CONSULTING

## RADIANT BARRIERS

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## ELEVATION NOTES

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4 PROVIDE FOAM TRIM AT ALL WINDOWS AND ANY ARCHITECTURAL FEATURES TO MATCH THE FRONT ON CORNER LOTS OR LOTS ADJACENT THE MAIN STREET. REFER TO PLOT PLANS TO IDENTIFY WHICH LOTS

AGENDA ITEM NO. 17.

TUSCAN
7030 N. FRUIT AVE. SU
FRESNO , CALIFORNIA 93711
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

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PLAN 1512

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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
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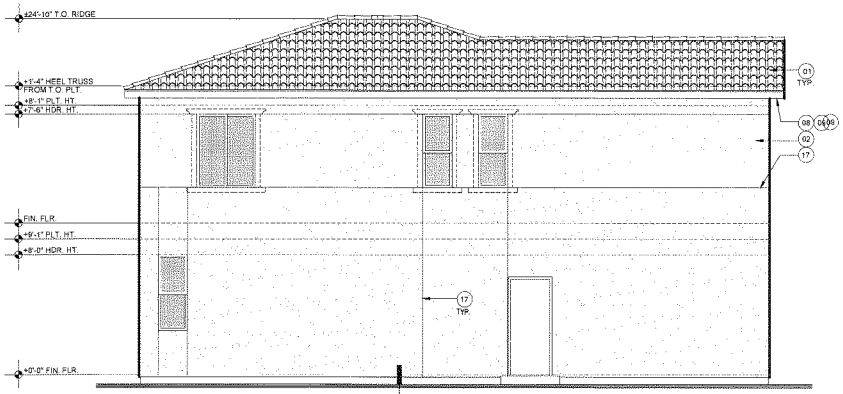
SHEET A3.3

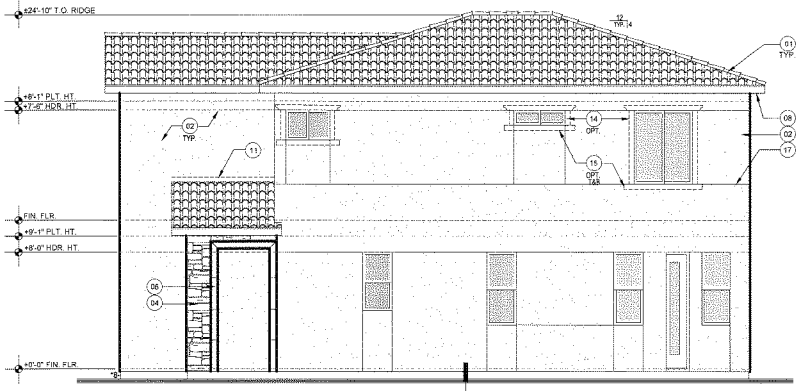
TRACT: HARVEST




## LEFT ELEVATIONS
SCALE: 1/4"=1'-0"




## FRONT ELEVATIONS
SCALE: 1/4"=1'-0"




## RIGHT ELEVATIONS
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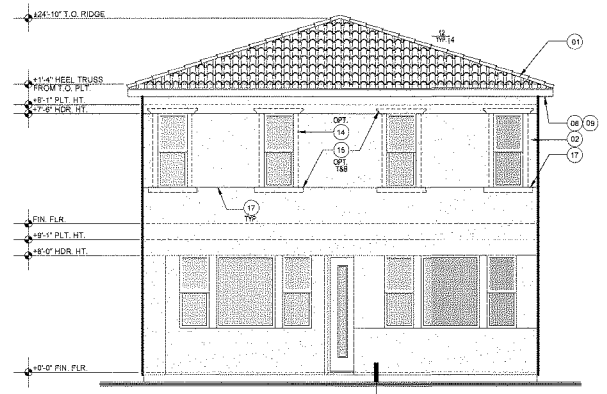
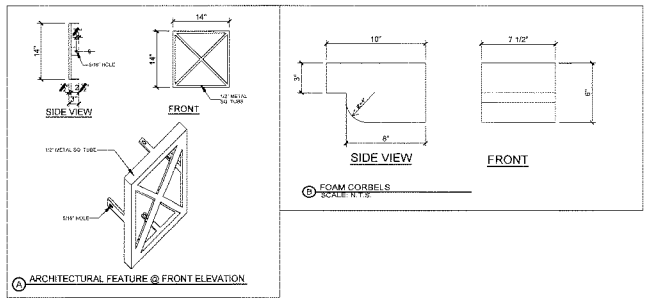



## REAR ELEVATIONS
SCALE: 1/4"=1'-0"

NOTE: DASHED LINES INDICATE OPT. FOAM TRIM AT WINDOWS AND ARCHITECTURAL FEATURES AT CORNER LOTS OR LOTS ADJACENT MAIN STREET. REFER TO PLOT PLANS TO IDENTIFY LOTS




## ELEVATION KEYNOTES

| | |
|---|---|
| 01 | TILE ROOF MATERIAL ICC # ESR 1847 OR EQUAL TO COMPLY WITH 2019 CRC R904, R905 SEE ROOF FRAMING PLAN |
| 02 | 2-COAT CEMENT PLASTER o/1" THK. FOAM w/ (2) LAYER GRADE "D" PAPER UNDER THE CEMENT PLASTER COVERING WHEN APPLYING OVER FOAM PLASTIC WALLS AND WEEP SCREED APPLY CEMENT PLASTER TO WITHIN 4" OF EARTH ON CONCRETE CEILINGS: OVERHANGS, AND OTHER |
| 03 | ICC ESR#2586 APPROVED THERMAL BARRIER PROTECTION BEHIND ONE COAT STUCCO SYSTEM AT EXPOSED GABLE END ATTIC SPACE OR 1/2" SHEET ROCK (2019 CBC 2602.4) |
| 04 | MANUFACTURED STONE VENEER: ELDORADO STONE VENEER, LIGHTWEIGHT, IRON OXIDES, CODE CERTIFICATION: ESR-1215 FAVA MATERIAL RELEASE #910, UNDERWRITERS LABORATORIES CLASSIFICATION #5467. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH w/ ONE PART TYPE "M" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT |
| 05 | 1x LAP SIDING o/1/2" BUILDING PAPER. INSTALLED PER MANUFACTURERS SPECIFICATIONS |
| 06 | DECORATIVE PRE-CAST SURROUND. INSTALL PER MANUFACTURE'S SPECIFICATIONS |
| 07 | ILLUMINATED ADDRESS LOCATION |
| 08 | 2x6 FASCIA / BARGE BD. (TYP.) |
| 09 | 12" OVERHANG U.N.O. |
| 10 | GABLE END VENT - SEE ROOF FRAMING PLAN FOR VENTING CALCS |
| 11 | G.I. SHEET METAL FLASHING AND COUNTER FLASHING AS REQUIRED (2019 CRC 1503.2) |
| 12 | DECORATIVE (3) 4"x5"x4" DP. ARCHITECTURAL FOAM FEATURES |
| 13 | DECORATIVE SHUTTERS TYPICAL |
| 14 | FOAM w/ STUCCO FINISH |
| 15 | 2x4 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR/WINDOW OPENING |
| 16 | 2x8 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR |
| 17 | 1/2" EXPANSION JOINTS INSTALLED @ TIME OF LATH |
| 18 | +42" WD. GUARDRAIL - PER PLAN |
| 19 | WROUGHT IRON DECORATIVE FEATURE - INSTALLED PER MANUFACTURER'S SPECIFICATIONS |
| 20 | 6x6 D.F. RE-SAWN POST |
| 21 | +42" W.I. GUARDRAIL - PER PLAN |

REVIEWED
FOR CODE COMPLIANCE

FEB 26 2020

INTERWEST CONSULTING

## RADIANT BARRIERS

| | |
|---|---|
| 01 | RADIANT BARRIERS: LOUISIANA PACIFIC TECHSHIELD. CALIFORNIA DEPARTMENT OF CONSUMER AFFAIRS CERTIFIED #CA-T370. |
| 02 | THE RADIANT BARRIER MUST HAVE AN EMISSIVITY OF 0.05 OR LESS. RADIANT BARRIER MUST BE INSTALLED TO COVER ROOF RAFTERS, TRUSSES, GABLE END WALLS, ALL VERTICAL ATTIC SURFACES AND MUST MEET ATTIC VENTILATION CRITERIA. |
| 03 | THE ATTIC VENTILATION SHALL BE INCREASED TO 1/300 OF ATTIC AREA WITH HIGH/LOW VENTILATION |
| 04 | ICBO APPROVED THERMAL BARRIER PROTECTION BEHIND ONE COAT STUCCO SYSTEM AT EXPOSED GABLE END ATTIC SPACE OR 1/2" SHEET ROCK (2019 CBC 2602.4) |

## ELEVATION NOTES

| | |
|---|---|
| 1 | CONTRACTOR TO PROVIDE ADDITIONAL STUCCO JOINTS AS NEEDED TO MINIMIZE CRACKING. |
| 2 | PROVIDE G.I. SHEET METAL FLASHING AND COUNTER-FLASHING AS REQUIRED COMPLY TO 2019 CRC |
| 3 | ALL WINDOWS TO BE DUAL GLAZED VINYL "LOW-E" w/ FINISH PER DEVELOPER - PROVIDE MUNTINS AS SHOWN. |
| 4 | PROVIDE FOAM TRIM AT ALL WINDOWS AND ANY ARCHITECTURAL FEATURES TO MATCH THE FRONT ON CORNER LOTS OR LOTS ADJACENT THE MAIN STREET. REFER TO PLOT PLANS TO IDENTIFY WHICH LOTS |

AGENDA ITEM NO. 17.

TUSCAN - LI
7030 N. FRUIT AVE. SU
FRESNO, CALIFORNIA 937
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

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PLAN 1512

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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
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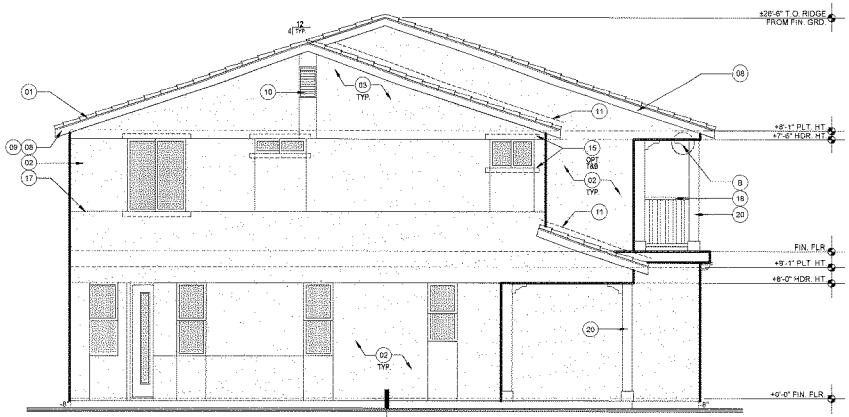
| 5 | | |
| 6 | | |

SHEET A3.4

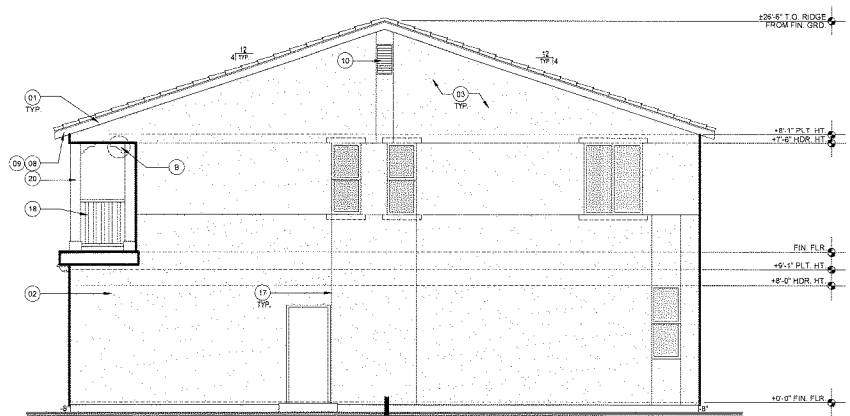
TRACT: RIVERSTONE
HARVEST




LEFT ELEVATIONS
SCALE: 1/4"=1'-0"



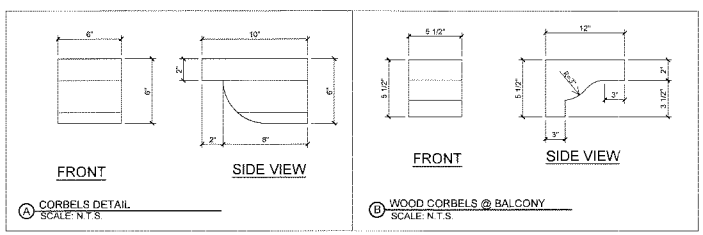

FRONT ELEVATIONS
SCALE: 1/4"=1'-0"




RIGHT ELEVATIONS
SCALE: 1/4"=1'-0"




REAR ELEVATIONS
SCALE: 1/4"=1'-0"




A CORBELS DETAIL
SCALE: N.T.S.




B WOOD CORBELS @ BALCONY
SCALE: N.T.S.

## ELEVATION KEYNOTES

01 TILE ROOF MATERIAL ICC # ESR 1647 OR EQUAL TO COMPLY WITH 2019 CRC R904, R905 SEE ROOF FRAMING PLAN
02 2-COAT CEMENT PLASTER o/1" THK. FOAM w/ (2) LAYER GRADE "D" PAPER UNDER THE CEMENT-PLASTER COVERING WHEN APPLIED OVER WOOD-BASED SHEATHING. INSTALL WEEP SCREED APPLY CEMENT PLASTER TO A MINIMUM DEPTH OF 1" BELOW FINISH CEILINGS, OVERHANGS, AND OTHER
03 ICC ESR#2586 APPROVED THERMAL BARRIER PROTECTION BEHIND ONE COAT STUCCO SYSTEM AT EXPOSED GABLE END ATTIC SPACE OR 1/2" SHEET ROCK EQ.
04 MANUFACTURED STONE VENEER ELDORADO STONE VENEER. LIGHTWEIGHT AGGREGATE, PORTLAND CEMENT, AND IRON OXIDES. CODE CERTIFICATION: ESR-1215 PAVA MATERIAL RELEASE #910 UNDERWRITERS LABORATORIES CLASSIFICATION #5467. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH w/ ONE PART TYPE "M" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT.
05 1x LAP SIDING o/1/16 BUILDING PAPER INSTALLED PER MANUFACTURERS SPECIFICATIONS
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20 6x6 D.F. RE-SAWN POST
21 +42" W.I. GUARDRAIL - PER PLAN

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AGENDA ITEM NO. 17.

REVIEWED
FOR CODE COMPLIANCE
FEB 26 2020
INTERWEST CONSULTING

MONTER
7030 N. FRUIT AVE. SU
FRESNO , CALIFORNIA 93711
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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 2.3.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
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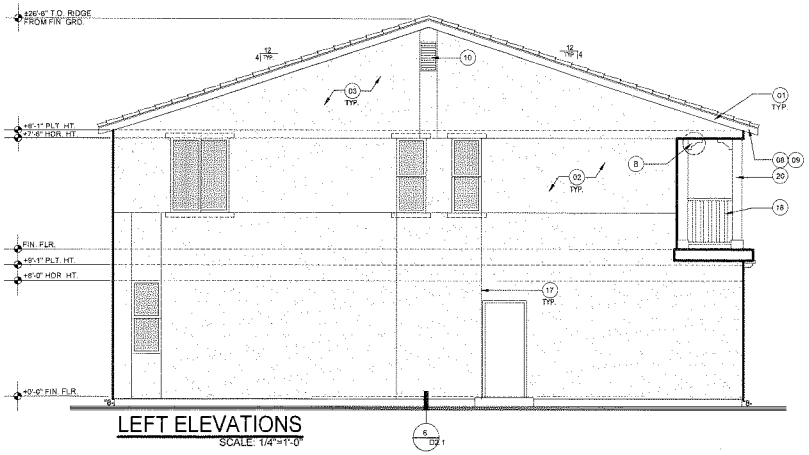
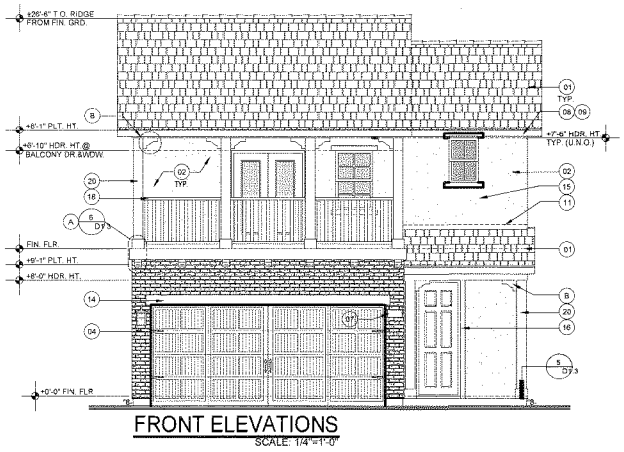
| 7 | | |

SHEET A3.5

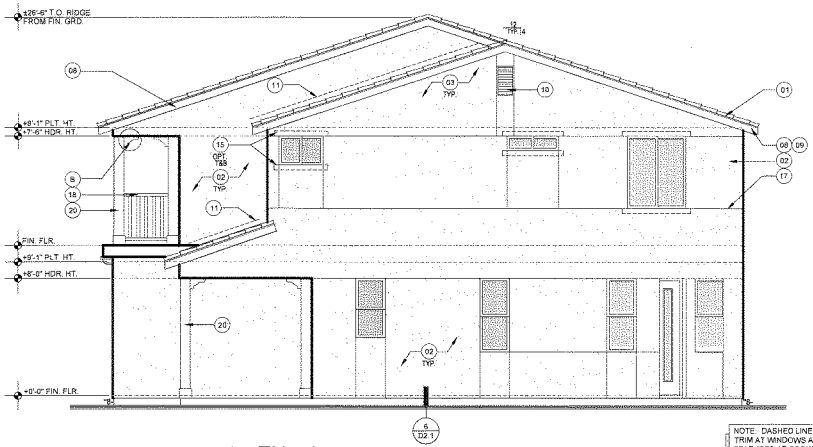
TRACT: RIVERSTONE
HARVEST




LEFT ELEVATIONS
SCALE: 1/4"=1'-0"




FRONT ELEVATIONS
SCALE: 1/4"=1'-0"




RIGHT ELEVATIONS
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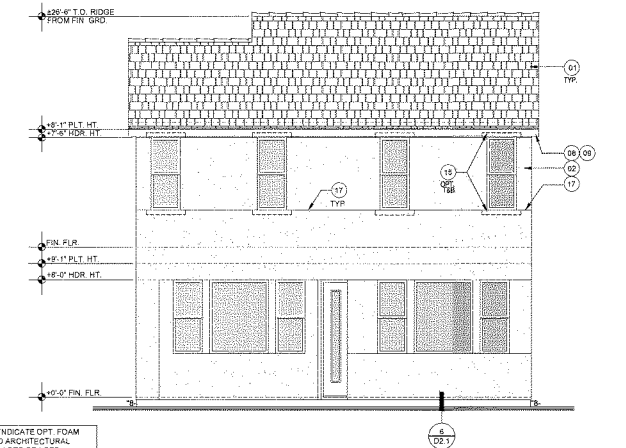
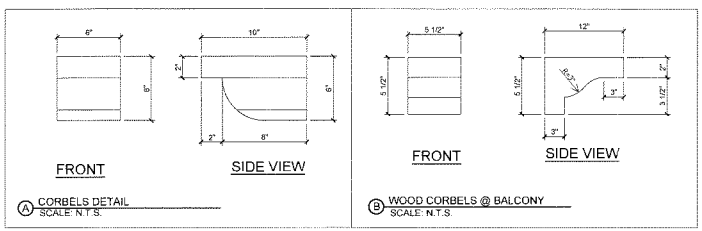



REAR ELEVATIONS
SCALE: 1/4"=1'-0"

NOTE: DASHED LINES INDICATE OPT. FOAM TRIM AT WINDOWS AND ARCHITECTURAL FEATURES AT CORNER LOTS OR LOTS ADJACENT MAIN STREET. REFER TO PLOT PLANS TO IDENTIFY LOTS




Ⓐ CORBELS DETAIL
SCALE: N.T.S.

Ⓑ WOOD CORBELS @ BALCONY
SCALE: N.T.S.

## ELEVATION KEYNOTES

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AGENDA ITEM NO. 17.

REVIEWED
FOR CODE COMPLIANCE
FEB 26 2020
INTERWEST CONSULTING

MONTEREY
7030 N. FRUIT AVE. SU...
FRESNO , CALIFORNIA 93...
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CONTR. LIC. # 822555

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PLOT DATE: 2.3.20
MASTER PLAN NO.:

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |

SHEET A3.6

TRACT: RIVERSTONE
HARVEST

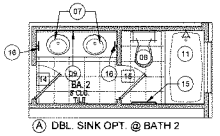
AGENDA ITEM NO. 17.

## DOOR SCHEDULE

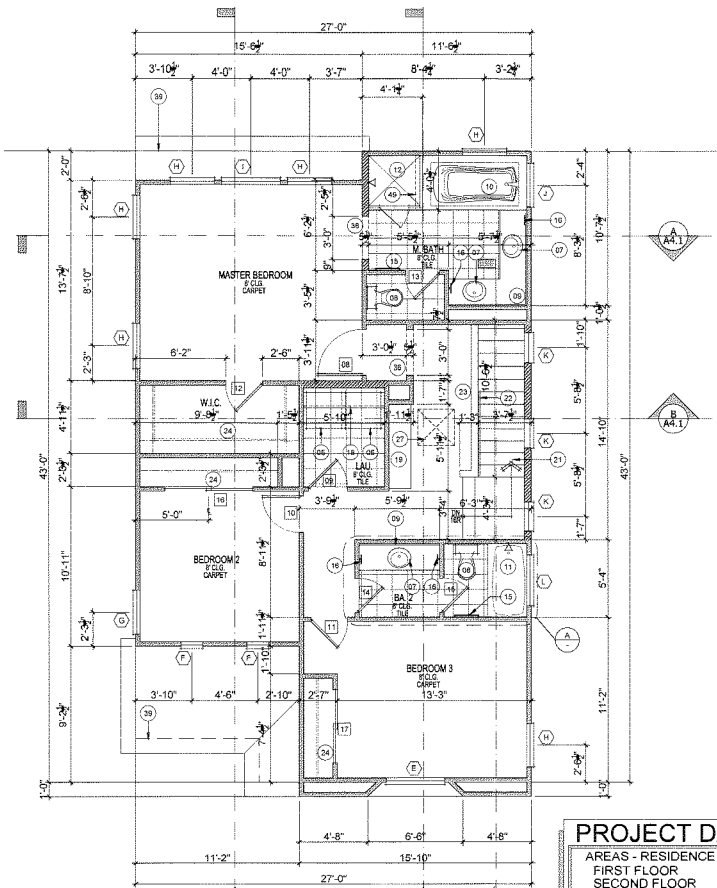
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 16'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/4" THK. SOLID CORE DOOR W/SELF CLOSURE, SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-6" x 6'-8" | SINGLE | | | |
| 06 | 2'-4" x 6'-8" | SINGLE | | | |
| 07 | 2'-6" x 6'-8" | SINGLE | | | |
| 08 | 3'-0" x 6'-8" | SINGLE | | | |
| 09 | 2'-8" x 6'-8" | SINGLE | | | |
| 10 | 2'-6" x 6'-8" | SINGLE | | | |
| 11 | 2'-6" x 6'-8" | SINGLE | | | |
| 12 | 2'-6" x 6'-8" | SINGLE | | | |
| 13 | 2'-4" x 6'-8" | SINGLE | | | |
| 14 | 2'-4" x 6'-8" | SINGLE | | | |
| 15 | 2'-4" x 6'-8" | SINGLE | | | |
| 16 | 6'-0" x 6'-8" | BI-PASS | | | |
| 17 | 5'-0" x 6'-8" | BI-PASS | | | |
| 18 | 3'-0" x 6'-8" | FRENCH DR. | 0.32 | 0.23 | MONTEREY TEMP. |

## WINDOW SCHEDULE

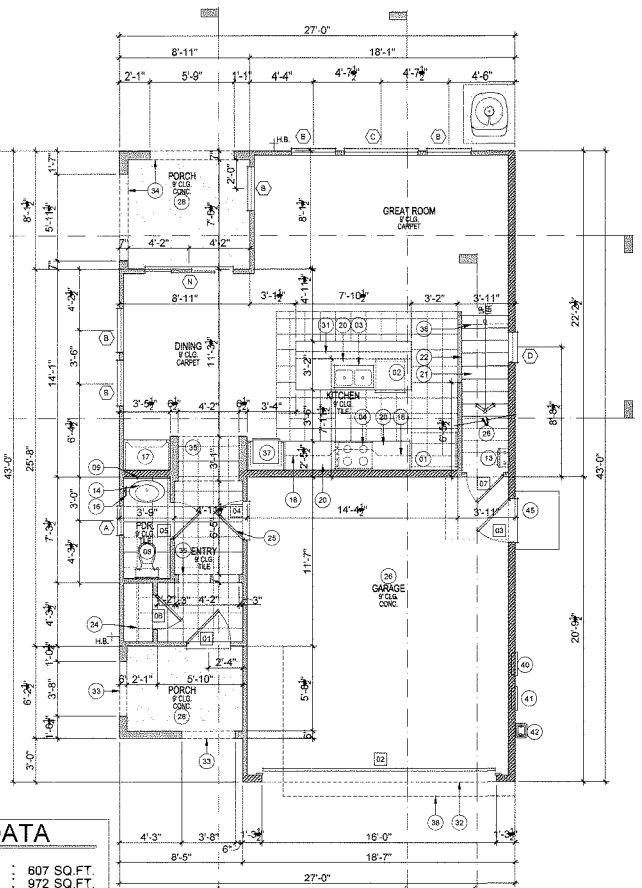
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| B | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 5'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| D | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| E | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | SPANISH & MONTEREY |
| F | 1'-6" x 3'-0" | FIX | 0.27 | 0.23 | SPANISH & TUSCAN |
| G | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| H | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| I | 4'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| J | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| K | 2'-0" x 5'-0" | FIX | 0.27 | 0.25 | TEMP. |
| L | 3'-6" x 1'-0" | SLIDER | 0.30 | 0.22 | |
| M | 3'-6" x 6'-8" | FIX | 0.27 | 0.23 | TEMP. TUSCAN |
| N | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |



Ⓐ DBL. SINK OPT. @ BATH 2



## SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"



## FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

## PROJECT DATA

| AREAS - RESIDENCE | |
|---|---|
| FIRST FLOOR | 607 SQ.FT. |
| SECOND FLOOR | 972 SQ.FT. |
| TOTAL FLOOR AREA | 1579 SQ.FT. |
| GARAGE | 392 SQ.FT. |
| PORCH | 53 SQ.FT. |
| PATIO | 85 SQ.FT. |

## WALL LEGEND
2x4 STD. GRD STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.
2x6 STD. GRD.STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O.

## FLOOR KEYNOTES
01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP w/ HOOD ABV. (MICROWAVE OVEN PER MANUFACTURER'S SPECIFICATIONS.VERTICAL CLEARANCE BETWEEN COOKTOP AND CABINET ABOVE SHALL BE 30" UNPROTECTED, OR 24" PROTECTED WITH METAL HOOD AS REQUIRED TO BE PER THE MANUFACTURER'S SPECIFICATIONS. ANTI-TILT LOCK.
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR PER U.M.C. SECTION 504.3. A (14'-0" MAX. RUN PER U.M.C. SECTION 908) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 OVAL TUB w/12" TILE SPLASH & DECK
11 LASCO MODEL #1042422F FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPARATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE 72" MIN. O/ USE OF FIBER-CEMENT,FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS , w/2" 8" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED, MIN 22" TEMP DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK.
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET (18" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS. SEE DETAIL 4/D1.2.
22 HANDRAIL / GUARDRAIL - SEE PLAN FOR LOCATION
23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL.
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALL & CEILING.
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL.
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING).
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 1/2"
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 WASHER/DRYER STACK UNIT (N.I.C.) DRYER VENT TO OUTSIDE AIR MIN. 4" DIA. MOISTER EXHAUST DUCT PER SECT. 504.0, A (14'-0" MAX. RUN PER O.M.C. SECT. 908) REFER TO PLUMBING PLANS FOR OPT. GAS. INSTALL DRYER BOX IN WALL FOR VENTING
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF DECK COATING-HILL'S BROS. CHECM. CO. 'DESERT-CRETE'. ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO# REPORT
45 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BLDG.
46 30" OVEN / MICROWAVE COMBO
47 2x6 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 6x6 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION

## FLOOR NOTES:
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 821 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION - OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2006 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL.
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8KBTU/hr (2-kw) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2016 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4+R-15, 2x6+R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-6.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |


SPANISH
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CONTR. LIC. # 822555

BONADELLE HOMES INC.
PLAN 1579


REVIEWED FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING


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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

SHEET A1.1

TRACT: RIVERSTONE
HARVEST

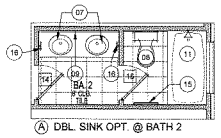
AGENDA ITEM NO. 17.

## DOOR SCHEDULE

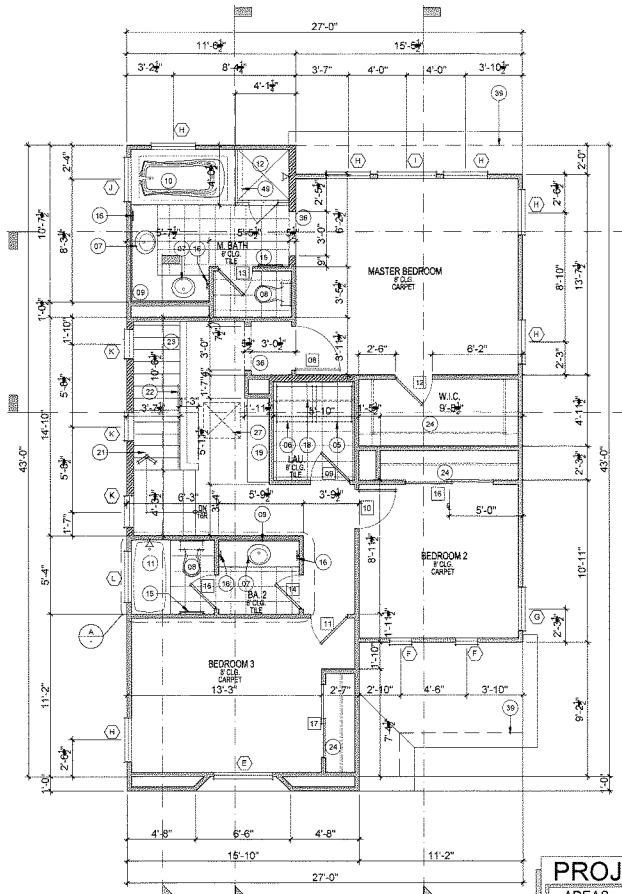
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 16'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/4" THK. SOLID CORE DOOR W/SELF CLOSURE, SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-6" x 6'-8" | SINGLE | | | |
| 06 | 2'-4" x 6'-8" | SINGLE | | | |
| 07 | 2'-6" x 6'-8" | SINGLE | | | |
| 08 | 3'-0" x 6'-8" | SINGLE | | | |
| 09 | 2'-6" x 6'-8" | SINGLE | | | |
| 10 | 2'-6" x 6'-8" | SINGLE | | | |
| 11 | 2'-6" x 6'-8" | SINGLE | | | |
| 12 | 2'-6" x 6'-8" | SINGLE | | | |
| 13 | 2'-4" x 6'-8" | SINGLE | | | |
| 14 | 2'-4" x 6'-8" | SINGLE | | | |
| 15 | 2'-4" x 6'-8" | SINGLE | | | |
| 16 | 6'-0" x 6'-8" | BI-PASS | | | |
| 17 | 5'-0" x 6'-8" | BI-PASS | | | |
| 18 | 3'-0" x 6'-8" | FRENCH DR. | 0.32 | 0.23 | MONTEREY TEMP. |

## WINDOW SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| B | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 5'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| D | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| E | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | SPANISH & MONTEREY |
| F | 1'-6" x 3'-0" | FIX | 0.27 | 0.23 | SPANISH & TUSCAN |
| O | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| H | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| I | 4'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| J | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| K | 2'-0" x 5'-0" | FIX | 0.27 | 0.25 | TEMP. |
| L | 3'-5" x 1'-0" | SLIDER | 0.30 | 0.22 | |
| M | 3'-6" x 6'-8" | FIX | 0.27 | 0.23 | TEMP. TUSCAN |
| N | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |

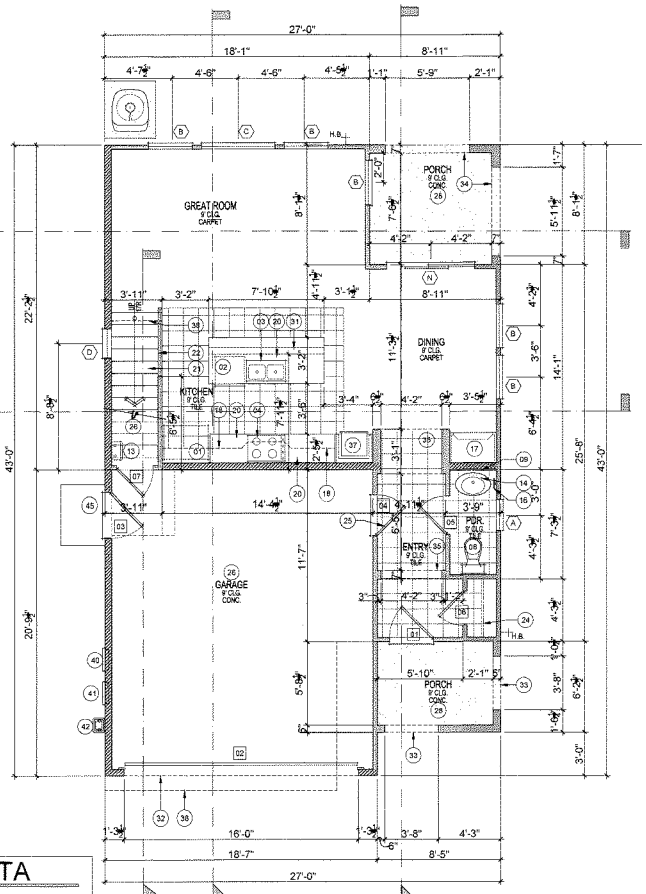



Ⓐ DBL. SINK OPT. @ BATH 2




## SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"




## FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

## PROJECT DATA

AREAS - RESIDENCE

| | | |
|---|---|---|
| FIRST FLOOR | : | 607 SQ.FT. |
| SECOND FLOOR | : | 972 SQ.FT. |
| TOTAL FLOOR AREA | : | 1579 SQ.FT. |
| GARAGE | : | 392 SQ.FT. |
| PORCH | : | 53 SQ.FT. |
| PATIO | : | 85 SQ.FT. |

## WALL LEGEND

2x4 STD. GRD. STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.

2x6 STD. GRD.STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O.

## FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP w/ HOOD ABV. (MICRON SPECIFICATIONS,VERTICAL CLEARANCE 30" UNPROTECTED, OR 24" PROTECTED REQUIRED TO BE PER THE PERMANENT ANTI-TILT LOCK.
05 WASHER (N.I.C.)
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR PER C.M.C. SECTION 908) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 OVAL TUB w/12" TILE SPLASH & DECK
11 LASCO MODEL #1524SPD FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPARATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE 72" MIN. O/ SIDE OF FIBERCEMENT FIBERMAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS. W/2'-6" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" WIDE DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +58" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET (18" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS. SEE DETAIL 4/D1.2
22 HANDRAIL / GUARDRAIL - SEE PLAN FOR LOCATION
23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL.
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALL & CEILING.
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL
28 CONCRETE PORCH/PATIO SLABS - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING).
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 1/2"
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 WASHER/DRYER STACK UNIT (N.I.C.) DRYER VENT TO OUTSIDE AIR MIN. 4" DIA. MOISTER EXHAUST DUCT PER SECT. 504.0, A (14'-0" MAX. RUN PER C.M.C. SECT. 906) REFER TO PLUMBING PLANS FOR OPT. GAS. INSTALL DRYER BOX IN WALL FOR VENTING
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF/CX COATING-HILLS BROS. CHECM. CO. 'DESERT-CRETE' ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO# REPORT
45 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BLDG.
46 30" OVEN / MICROWAVE COMBO
47 2x6 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 6x6 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION

## FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 821 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2006 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8kBTU/hr (2-kw) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED, PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-6.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |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BONADELLE HOMES INC.


PLAN 1579

REVIEWED FOR CODE COMPLIANCE
FEB 25 2020
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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |

SHEET A1.2

TRACT: RIVERSTONE

HARVEST

## DOOR SCHEDULE

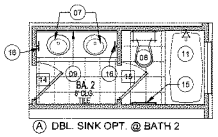
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 16'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/8" THK. SOLID CORE DOOR W/SELF CLOSURE, SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-6" x 6'-8" | SINGLE | | | |
| 06 | 2'-4" x 6'-8" | SINGLE | | | |
| 07 | 2'-6" x 6'-8" | SINGLE | | | |
| 08 | 3'-0" x 6'-8" | SINGLE | | | |
| 09 | 2'-8" x 6'-8" | SINGLE | | | |
| 10 | 2'-6" x 6'-8" | SINGLE | | | |
| 11 | 2'-6" x 6'-8" | SINGLE | | | |
| 12 | 2'-6" x 6'-8" | SINGLE | | | |
| 13 | 2'-4" x 6'-8" | SINGLE | | | |
| 14 | 2'-4" x 6'-8" | SINGLE | | | |
| 15 | 2'-4" x 6'-8" | SINGLE | | | |
| 16 | 6'-0" x 6'-8" | BI-PASS | | | |
| 17 | 5'-0" x 6'-8" | BI-PASS | | | |
| 18 | 3'-0" x 6'-8" | FRENCH DR. | 0.32 | 0.23 | MONTEREY TEMP. |

## WINDOW SCHEDULE

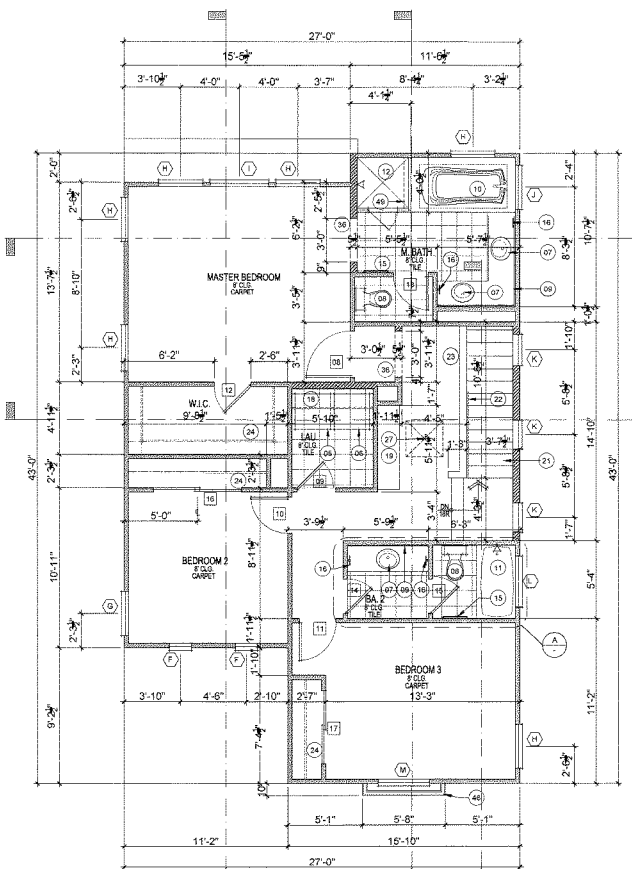
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| B | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 5'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| D | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| E | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | SPANISH & MONTEREY |
| F | 1'-6" x 3'-0" | FIX | 0.27 | 0.23 | SPANISH & TUSCAN |
| G | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| H | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| I | 4'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| J | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| K | 2'-0" x 5'-0" | FIX | 0.27 | 0.25 | TEMP. |
| L | 3'-6" x 1'-0" | SLIDER | 0.30 | 0.22 | |
| M | 3'-6" x 6'-8" | FIX | 0.27 | 0.23 | TEMP, TUSCAN |
| N | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |

## FLOOR KEYNOTES

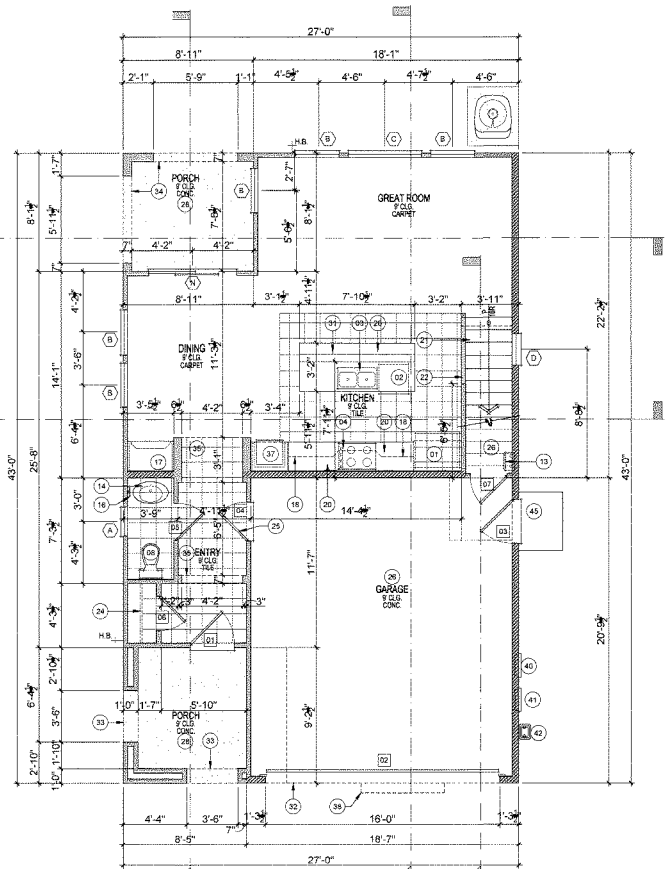
01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP w/ HOOD ABV. (MICROW... SPECIFICATIONS.VERTICAL CLEARAN... 30" UNPROTECTED, OR 24" PROTECTE... REQUIRED TO BE PER THE PERMANE... ANTI-TILT LOCK.
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR A MIN. 4" DIA.MOISTER EXHAUST DUCT PER SECTION 504.3. A 1/4-0" MAX. RUN PER C.M.C. SECTION 908) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 OVAL TUB w/12" TILE SPLASH & DECK
11 LASCO MODEL #102422P FIBERGLASS TUB/ SHOWER COMBO UNIT, INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE GLASS TUB/SHOWER SEPARATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE. 72" MIN. C/ USE OF FIBER-CEMENT,FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS., w/2" 6" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN.22" TEMP.DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET (18" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
22 HANDRAIL / GUARDRAIL - SEE PLAN FOR LOCATION
23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALL & CEILING.
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL.
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING).
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 1/2".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 WASHER/DRYER STACK UNIT (N.I.C.) DRYER VENT TO OUTSIDE AIR MIN.,4" DIA. MOISTER EXHAUST DUCT PER SECT. 504.6 A 1/4-0" MAX. RUN PER C.M.C. SECT. 906) REFER TO PLUMBING PLANS FOR OPT. GAS. INSTALL DRYER BOX IN WALL FOR VENTING
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF DECK COATING-HILL'S BROS. CHEM. CO. 'DESERT-CRETE' ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO# REPORT
45 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BLDG.
46 30" OVEN / MICROWAVE COMBO
47 2x6 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 6x6 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION



Ⓐ DBL. SINK OPT. @ BATH 2



SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"



FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

## PROJECT DATA

| AREAS - RESIDENCE | |
|---|---|
| FIRST FLOOR | 607 SQ.FT. |
| SECOND FLOOR | 972 SQ.FT. |
| TOTAL FLOOR AREA | 1579 SQ.FT. |
| GARAGE | 392 SQ.FT. |
| PORCH | 78 SQ.FT. |
| PATIO | 85 SQ.FT. |

## WALL LEGEND

2x4 STD. GRD. STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.
2x6 STD. GRD. STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O.

## FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUB/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 821 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE BOTTOM OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2006 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8kBTU/hr (2kw) SHALL HAVE THE CAPACITY FOR THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |

AGENDA ITEM NO. 17.

TUSCAN
7030 N. FRUIT AVE. SUI...
FRESNO, CALIFORNIA...
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

BONADELLE HOMES INC.
PLAN 1579

REVIEWED FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING

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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS
1 12.3.19 CODE UPDATE
2
3
4
5
6

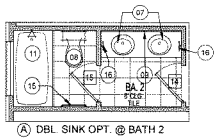
SHEET A1.3
TRACT: RIVERSTONE
HARVEST

## DOOR SCHEDULE

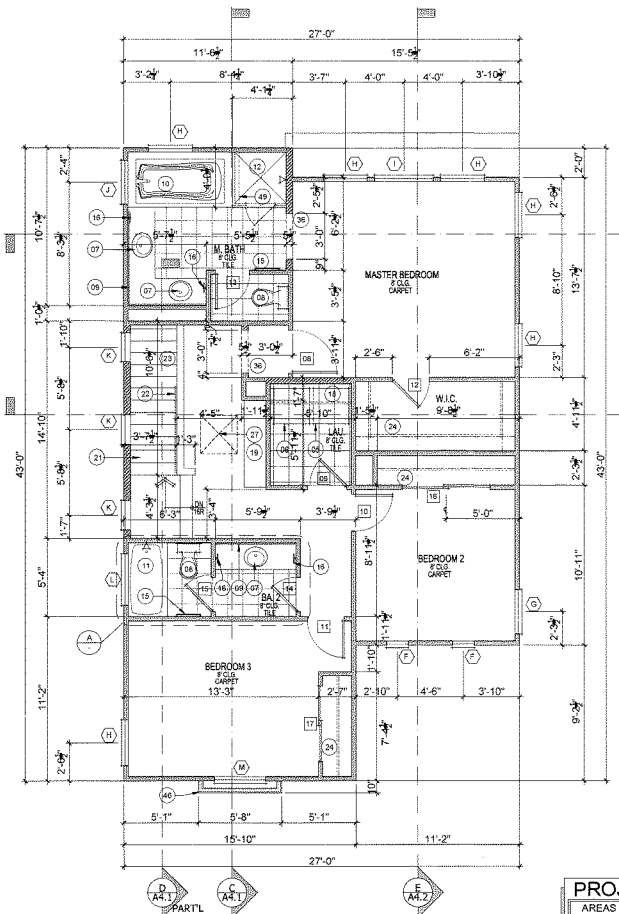
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 15'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL ODOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/8" THK. SOLID CORE DOOR W/SELF CLOSURE, SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-6" x 6'-8" | SINGLE | | | |
| 06 | 2'-4" x 6'-8" | SINGLE | | | |
| 07 | 2'-6" x 6'-8" | SINGLE | | | |
| 08 | 3'-0" x 6'-8" | SINGLE | | | |
| 09 | 2'-8" x 6'-8" | SINGLE | | | |
| 10 | 2'-6" x 6'-8" | SINGLE | | | |
| 11 | 2'-6" x 6'-8" | SINGLE | | | |
| 12 | 2'-6" x 6'-8" | SINGLE | | | |
| 13 | 2'-4" x 6'-8" | SINGLE | | | |
| 14 | 2'-4" x 6'-8" | SINGLE | | | |
| 15 | 2'-4" x 6'-8" | SINGLE | | | |
| 16 | 6'-0" x 6'-8" | BI-PASS | | | |
| 17 | 5'-0" x 6'-8" | BI-PASS | | | |
| 18 | 3'-0" x 6'-8" | FRENCH DR. | 0.32 | 0.23 | MONTEREY TEMP. |

## WINDOW SCHEDULE

| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| B | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 5'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| D | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| E | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | SPANISH & MONTEREY |
| F | 1'-6" x 3'-0" | FIX | 0.27 | 0.23 | SPANISH & TUSCAN |
| G | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| H | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| I | 4'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| J | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| K | 2'-0" x 5'-0" | FIX | 0.27 | 0.25 | TEMP. |
| L | 3'-6" x 1'-0" | SLIDER | 0.30 | 0.22 | |
| M | 3'-6" x 6'-8" | FIX | 0.27 | 0.23 | TEMP. TUSCAN |
| N | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |

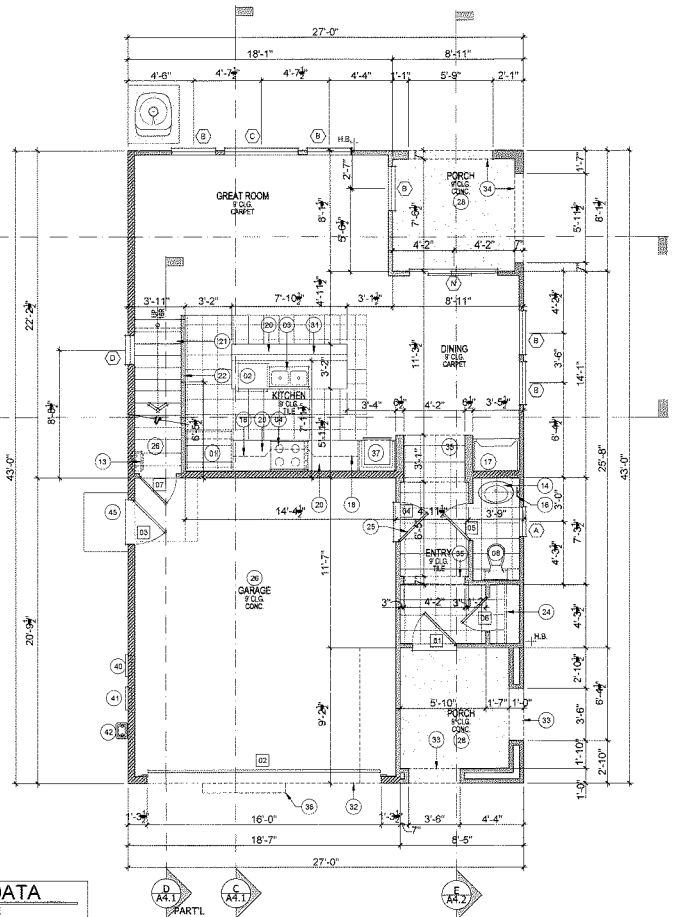



Ⓐ DBL. SINK OPT. @ BATH 2




## SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"




## FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

## PROJECT DATA

| AREAS - RESIDENCE | |
|---|---|
| FIRST FLOOR | 607 SQ.FT. |
| SECOND FLOOR | 972 SQ.FT. |
| TOTAL FLOOR AREA | 1579 SQ.FT. |
| GARAGE | 392 SQ.FT. |
| PORCH | 78 SQ.FT. |
| PATIO | 85 SQ.FT. |

## WALL LEGEND

2x4 STD. GRD. STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.

2x6 STD. GRD.STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O.

## FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP w/ HOOD ABV. (MICROWAVE OVEN SPECIFICATIONS, VERTICAL CLEARANCE BETWEEN 30" UNPROTECTED, OR 24" PROVIDED WITH 1" MIN. PROTECTION REQUIRED TO BE PER THE PERMANENT LABEL, INCLUDE ANTI-TILT LOCK.
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR A MIN. 4" DIA MOISTER EXHAUST DUCT PER SECTION 504.0. A 114'-0" MAX. RUN PER C.M.C. SECTION 906) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW.
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 OVAL TUB w/12" TILE SPLASH & DECK
11 LASCO MODEL #1024220 FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPARATOR TO BE TEMPERED. SEE OPTIONAL. PLAN.
12 SHOWER W/ TILE. 72" MIN. O/ USE OF FIBER-CEMENT FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS., w/2'-8" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" TEMP DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET (18" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
22 HANDRAIL / GUARDRAIL - SEE PLAN FOR LOCATION
23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALL & CEILING
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING).
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 1/2".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 WASHER/DRYER STACK UNIT (N.I.C.) DRYER VENT TO OUTSIDE AIR MIN. 4" DIA. MOISTER EXHAUST DUCT PER SECT. 504.0. A 114'-0" MAX. RUN PER C.M.C. SECT. 906) REFER TO PLUMBING PLANS FOR OPT. GAS. INSTALL DRYER BOX IN WALL FOR VENTING
38 LINE OF FLOOR ABOVE
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF DECK COATING-HILLS BROS. CHEEM. CO. 'DESERT-CRETE' ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO# REPORT
45 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BLDG.
46 30" OVEN / MICROWAVE COMBO
47 2x6 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 6x6 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION

## FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS. (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 821 SQ.IN. (24" WIDE x 29" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72' ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2006 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8kBTU/H (2-kw) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-6.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |

AGENDA ITEM NO. 17.

TUSCAN - L
7030 N. FRUIT AVE. SU
FRESNO, CALIFORNI
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

BONADELLE HOMES INC.
PLAN 1579

REVIEWED
FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.9.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |

SHEET A1.4

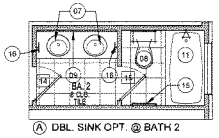
TRACT: RIVERSTONE
HARVEST

## DOOR SCHEDULE

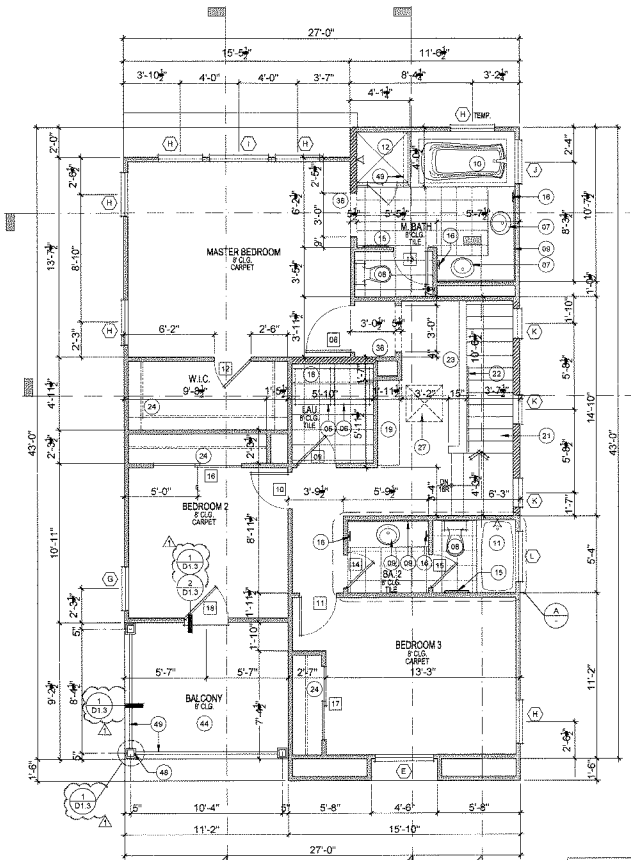
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 16'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/4" THK. SOLID CORE DOOR W/SELF CLOSURE, SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-6" x 6'-8" | SINGLE | | | |
| 06 | 2'-4" x 6'-8" | SINGLE | | | |
| 07 | 2'-6" x 6'-8" | SINGLE | | | |
| 08 | 3'-0" x 6'-8" | SINGLE | | | |
| 09 | 2'-8" x 6'-8" | SINGLE | | | |
| 10 | 2'-6" x 6'-8" | SINGLE | | | |
| 11 | 2'-6" x 6'-8" | SINGLE | | | |
| 12 | 2'-6" x 6'-8" | SINGLE | | | |
| 13 | 2'-4" x 6'-8" | SINGLE | | | |
| 14 | 2'-4" x 6'-8" | SINGLE | | | |
| 15 | 2'-4" x 6'-8" | SINGLE | | | |
| 16 | 6'-0" x 6'-8" | BI-PASS | | | |
| 17 | 5'-0" x 6'-8" | BI-PASS | | | |
| 18 | 3'-0" x 6'-8" | FRENCH DR. | 0.32 | 0.23 | MONTEREY TEMP. |

## WINDOW SCHEDULE

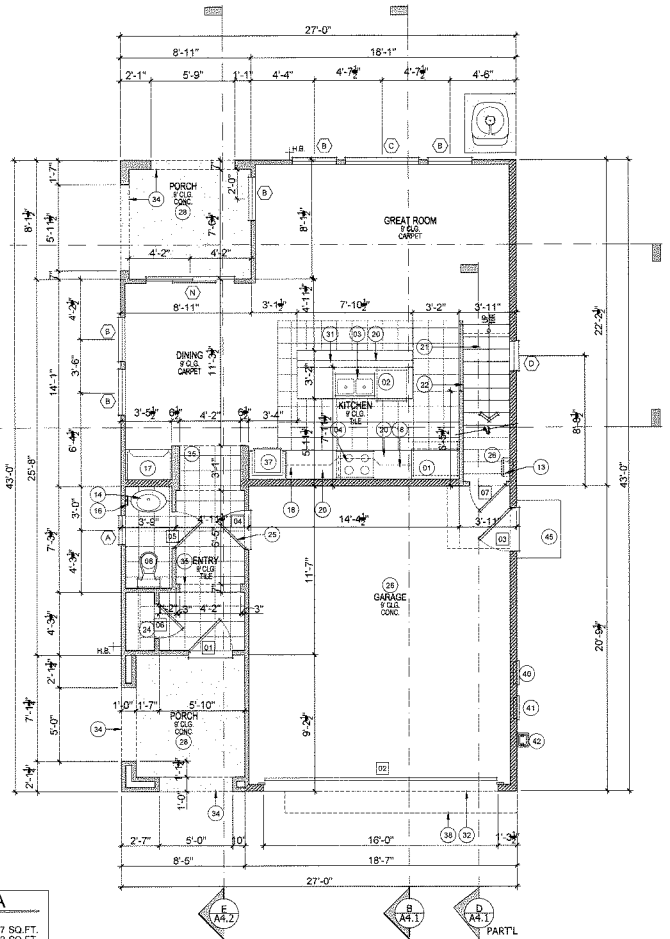
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| B | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 5'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| D | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| E | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | SPANISH & MONTEREY |
| F | 1'-6" x 3'-0" | FIX | 0.27 | 0.23 | SPANISH & TUSCAN |
| G | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| H | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| I | 4'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| J | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| K | 2'-0" x 5'-0" | FIX | 0.27 | 0.25 | TEMP. |
| L | 3'-6" x 1'-0" | SLIDER | 0.30 | 0.22 | |
| M | 3'-6" x 6'-8" | FIX | 0.27 | 0.23 | TEMP. TUSCAN |
| N | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |



Ⓐ DBL. SINK OPT. @ BATH 2




SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"




FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

## PROJECT DATA

| | | |
|---|---|---|
| AREAS - RESIDENCE | | |
| FIRST FLOOR | : | 607 SQ.FT. |
| SECOND FLOOR | : | 972 SQ.FT. |
| TOTAL FLOOR AREA | : | 1579 SQ.FT. |
| GARAGE | : | 392 SQ.FT. |
| PORCH | : | 78 SQ.FT. |
| BALCONY | : | 103 SQ.FT. |
| PATIO | : | 85 SQ.FT. |

## WALL LEGEND

2x4 STD. GRD. STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.

2x6 STD. GRD. STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O

## FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB.
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP w/ HOOD ABV. (MICROWAVE OVEN PER MANUFACTURER'S SPECIFICATIONS.VERTICAL CLEARANCE BETWEEN COOKTOP AND 30" UNPROTECTED, OR 24" PROTECTED, COMBUSTIBLE MATERIAL REQUIRED TO BE PER THE PERMANENT LABEL AND INCLUDE ANTI-TILT LOCK.
05 WASHER (N.I.C)
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR A MIN. 4" DIA MOISTER EXHAUST DUCT PER SECTION 504.5. A (14'-0" MAX. RUN PER C.M.C. SECTION 906) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL).
09 VANITY MIRROR.
10 OVAL TUB w/12" TILE SPLASH & DECK
11 LASCO MODEL #1004228 FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPARATOR TO BE TEMPERED. SEE OPTIONAL PLAN.
12 SHOWER W/ TILE. 72" MIN. OI USE OF FIBER-CEMENT,FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS. W/2'-0" MAX. CURB. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" TEMP DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. R702.3.8.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET (18" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS. SEE DETAIL 4/D1.2.
22 HANDRAIL / GUARDRAIL - SEE PLAN FOR LOCATION
23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALL & CEILING.
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL.
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING).
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 1/2".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 WASHER/DRYER STACK UNIT (N.I.C.) DRYER VENT TO OUTSIDE AIR MIN. 4" DIA. MOISTER EXHAUST DUCT PER SECT. 504.5. A (14'-0" MAX. RUN PER C.M.C. SECT. 906) REFER TO PLUMBING PLANS FOR OPT. GAS. INSTALL DRYER BOX IN WALL FOR VENTING
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF DECK COATING-HILLS BROS. CHECM. CO. 'DESERT-CRETE'. ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO# REPORT
45 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BLDG.
46 30" OVEN / MICROWAVE COMBO
47 2x6 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 8x8 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION

## FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUB/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 821 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2090 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8kBTU/hr (2-kw) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 16.0 SEER EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |

AGENDA ITEM NO. 17.


MONTE
7030 N. FRUIT AVE. SU
FRESNO , CALIFORNI
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555


BONADELLE HOMES INC.
PLAN 1579

REVIEWED
FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

SHEET A1.5

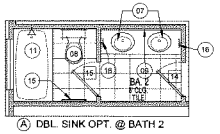
TRACT: RIVERSTONE
HARVEST

## DOOR SCHEDULE

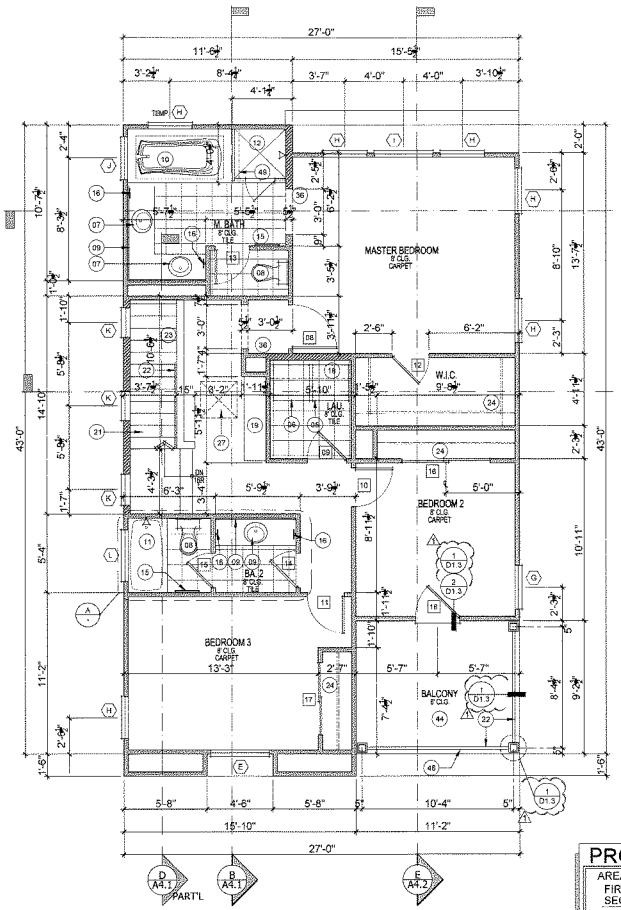
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| 01 | 3'-0" x 8'-0" | SINGLE | | | ENTRY DOOR |
| 02 | 16'-0" x 7'-0" | ALUM. | | | |
| 03 | 3'-0" x 6'-8" | METAL DOOR | | | GARAGE MAN DOOR |
| 04 | 2'-8" x 6'-8" | SINGLE | | | 1-3/8" THK. SOLID CORE DOOR w/SELF CLOSURE, SELF-LATCHING. PROVIDE GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL |
| 05 | 2'-6" x 6'-8" | SINGLE | | | |
| 06 | 2'-4" x 6'-8" | SINGLE | | | |
| 07 | 2'-6" x 6'-8" | SINGLE | | | |
| 08 | 3'-0" x 6'-8" | SINGLE | | | |
| 09 | 2'-8" x 6'-8" | SINGLE | | | |
| 10 | 2'-6" x 6'-8" | SINGLE | | | |
| 11 | 2'-6" x 6'-8" | SINGLE | | | |
| 12 | 2'-6" x 6'-8" | SINGLE | | | |
| 13 | 2'-4" x 6'-8" | SINGLE | | | |
| 14 | 2'-4" x 6'-8" | SINGLE | | | |
| 15 | 2'-4" x 6'-8" | SINGLE | | | |
| 16 | 6'-0" x 6'-8" | BI-PASS | | | |
| 17 | 5'-0" x 6'-8" | BI-PASS | | | |
| 18 | 3'-0" x 6'-8" | FRENCH DR. | 0.32 | 0.23 | MONTEREY TEMP. |

## WINDOW SCHEDULE

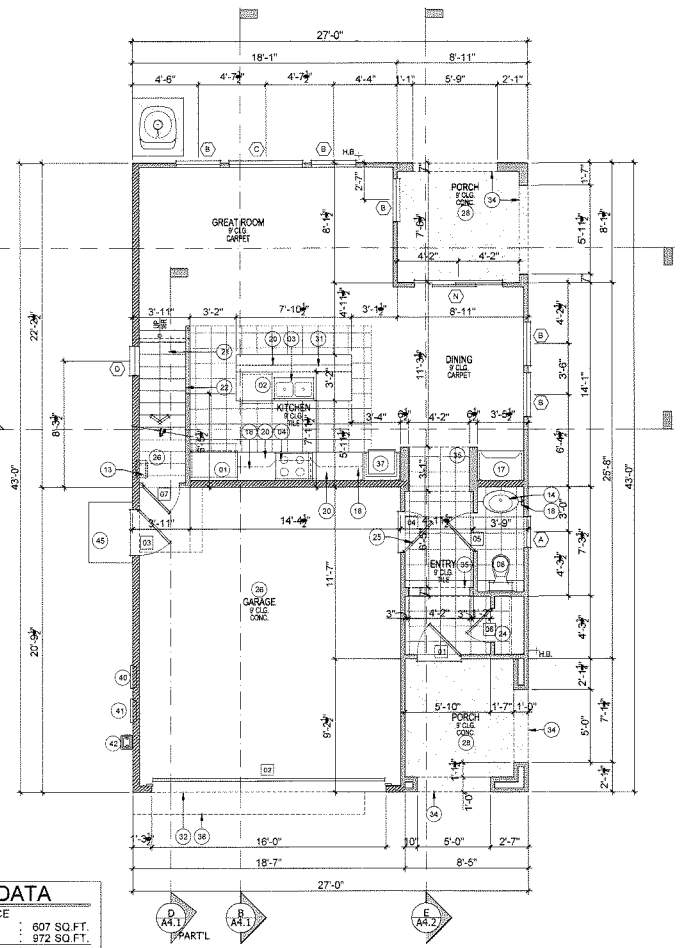
| SYMBOL | DIMENSIONS | TYPE | UVALUE | SHGC | REMARKS |
|---|---|---|---|---|---|
| A | 2'-0" x 4'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| B | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| C | 5'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| D | 2'-0" x 4'-0" | FIX | 0.27 | 0.25 | TEMP. |
| E | 4'-0" x 5'-0" | SLIDER | 0.30 | 0.22 | SPANISH & MONTEREY |
| F | 1'-6" x 3'-0" | FIX | 0.27 | 0.23 | SPANISH & TUSCAN |
| G | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| H | 3'-0" x 5'-0" | SINGLE HUNG | 0.30 | 0.22 | |
| I | 4'-0" x 5'-0" | FIX | 0.27 | 0.25 | |
| J | 3'-0" x 2'-0" | SLIDER | 0.30 | 0.22 | TEMP. |
| K | 2'-0" x 5'-0" | FIX | 0.27 | 0.25 | TEMP. |
| L | 3'-6" x 1'-0" | SLIDER | 0.30 | 0.22 | |
| M | 3'-6" x 6'-8" | FIX | 0.27 | 0.23 | TEMP. TUSCAN |
| N | 6'-0" x 8'-0" | S.G.D. | 0.29 | 0.22 | TEMP. |



A DBL. SINK OPT. @ BATH 2



SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"



FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

## PROJECT DATA

AREAS - RESIDENCE

| | | |
|---|---|---|
| FIRST FLOOR | : | 607 SQ.FT. |
| SECOND FLOOR | : | 972 SQ.FT. |
| TOTAL FLOOR AREA | : | 1579 SQ.FT. |
| GARAGE | : | 392 SQ.FT. |
| PORCH | : | 78 SQ.FT. |
| BALCONY | : | 103 SQ.FT. |
| PATIO | : | 85 SQ.FT. |

## WALL LEGEND

2x4 STD. GRD. STUDS @16" O.C. w/R-15 INSULATION @EXT. WALLS U.N.O.

2x6 STD. GRD STUDS @16" O.C. w/R-19 INSULATION @ EXT./INT WALLS U.N.O.

## FLOOR KEYNOTES

01 REFRIGERATOR (N.I.C.) - PROVIDE COLD WATER STUB
02 DISHWASHER
03 DOUBLE SINK W/ DISPOSAL
04 30" COOKTOP w/ HOOD ABV. (MICROWAVE SPECIFICATIONS, VERTICAL CLEARANCE 30" UNPROTECTED, OR 24" PROTECTED REQUIRED TO BE PER THE PERMANENT ANTI-TILT LOCK.
05 WASHER (N.I.C).
06 DRYER (N.I.C.) - VENT TO OUTSIDE AIR A MIN. 4" DIA MOISTER EXHAUST DUCT PER SECTION 504.3. A (14'-0" MAX. RUN PER C.M.C. SECTION 908) - PLUMB FOR OPTIONAL GAS. INSTALL DRYER BOX IN WALL FOR VENTING
07 LAVATORY SET IN CERAMIC TILE COUNTERTOP WITH CABINETS BELOW
08 LOW FLOW WATER CLOSET W/ MAXIMUM FLUSH OF OF 1.28 GALLONS PER FLUSH (TYPICAL)
09 VANITY MIRROR
10 OVAL TUB w/12" TILE SPLASH & DECK
11 LASCO MODEL #1024322P FIBERGLASS TUB/ SHOWER COMBO UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SHOWER GLASS DOOR TO BE TEMP. & MIN. 22" WIDE. GLASS TUB/SHOWER SEPARATION TO BE TEMPERED. SEE OPTIONAL PLAN
12 SHOWER W TILE. 72" MIN. OU USE OF FIBER-CEMENT, FIBER-MAT REINFORCED CEMENT OR GLASS MAT GYPSUM BACKERS. 3/8" @ MAX. CLEAR. PROVIDE TEMPERED GLASS ENCLOSURE AS REQUIRED. MIN 22" TEMP DOOR. THE WATER RESISTANT GYP BOARD SHALL NOT BE INSTALLED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREA SUBJECT TO HIGH HUMIDITY. RTG 2.6.1
13 RINNAI TANKLESS WATER HEATER W/ ENERGY FACTOR OF 0.95 WALL MOUNTED PER MANUFACTURES INSTALLATION FOR CLEARANCES.
14 PEDESTAL SINK
15 TOWEL BAR @ +51" w/ BLOCKING.
16 TOWEL RING @ +59" w/ BLOCKING.
17 PANTRY w/ (5) SHELVES
18 LINE OF UPPER CABINET.
19 LINEN CABINET (18" DEEP LOWER CABINET 14" DEEP UPPER CABINET)
20 GRANITE COUNTERTOP w/ CABINETS BELOW
21 STAIRS, SEE DETAIL 4/D1.2.
22 HANDRAIL / GUARDRAIL - SEE PLAN FOR LOCATION
23 2x HALF-WALL @ +42" w/ WOOD CAP-SEE PLAN FOR LOCATION
24 (1) SHELF AND (1) POLE.
25 1-3/8" THK. SOLID CORE DOOR W/ SELF CLOSING HINGES AND SELF-LATCHING. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
26 ONE LAYER OF 5/8" THK. TYPE 'X' GYP. BD. TYPICAL AT ALL HOUSE/GARAGE COMMON WALLS. APPLY TO ENTIRE GARAGE WALL & CEILING.
27 30"x30" ATTIC ACCESS TO BE WEATHER STRIPPED & INSULATION EQUIVALENT TO THAT OF THE CEILING SHALL BE INSTALLED ON ACCESS PANEL.
28 CONCRETE PORCH/PATIO SLAB - BROOM FINISH (SLOPE AWAY FROM BUILDING).
29 CONCRETE DRIVE APRON - REFER TO INDIVIDUAL SITE PLAN (SLOPE AWAY FROM BUILDING).
30 A/C CONDENSING UNIT ON PRE-CAST CONCRETE PAD.
31 2x6 PONY WALL @ +34 1/2".
32 SOFFIT @ GARAGE. SEE ELEVATIONS SHEETS.
33 ARCHED SOFFIT. SEE ELEVATIONS.
34 FLAT SOFFIT. SEE ELEVATIONS.
35 FLAT SOFFIT @ +8'-0".
36 SOFFIT @ +7'-6" ABOVE SECOND FINISHED FLOOR.
37 WASHER/DRYER STACK UNIT (N.I.C.) DRYER VENT TO OUTSIDE AIR MIN. 4" DIA. MOISTER EXHAUST DUCT PER SECT. 504.3 A (14'-0" MAX. RUN PER C.M.C. SECT. 908) REFER TO PLUMBING PLANS FOR OPT. GAS. INSTALL DRYER BOX IN WALL FOR VENTING.
38 LINE OF FLOOR ABOVE.
39 LINE OF FLOOR BELOW.
40 TELECOMMUNICATION SERVICE TO RESIDENCE.
41 ELECTRICAL SERVICE TO RESIDENCE.
42 GAS SERVICE TO RESIDENCE.
43 PROVIDE (1) LAYER 1/2" TYPE 'X' GYP. BD AT WALL & CEILING IN THE ENCLOSED USABLE SPACE UNDER STAIRS.
44 WATERPROOF DECK COATING-HILLS BROS. CHEM. CO. "DESERT-CRETE", ICBO#4635 OR APPROVED EQUAL. INSTALL PER MFR RECOMMENDATIONS & ICBO# REPORT
45 CONC. STOOP AT GARAGE MAN DOOR - (BROOM FINISH) SLOPE AWAY FROM BLDG.
46 30" OVEN / MICROWAVE COMBO
47 2x6 PONY WALL +37" HIGH FROM FINISH FLOOR - SEE PLAN FOR LOCATION
48 6x6 D.F. RE-SAWN POST - SEE ELEVATION
49 +42" WOOD RAILING - SEE ELEVATION

## FLOOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL SPECIAL BOLTS, STRAPS AND HOLDOWNS
2. SEE N SHEETS FOR GENERAL NOTES
3. SEE D SHEETS FOR GENERAL DETAILS
4. LABELED SAFETY GLASS IS REQUIRED IN TUBS/SHOWER ENCLOSURES & GLAZING WITHIN 60" FORM BOTTOM OF TUBS/SHOWERS (OPTIONAL)
5. MAXIMUM SILL HEIGHT OF 44 INCHES FROM THE BOTTOM OF THE CLEAR OPENING ABOVE THE FLOOR IN SLEEPING ROOMS FOR ALL WINDOWS USED FOR EMERGENCY EXITS, WITH MINIMUM 821 SQ.IN. (24" WIDE x 20" HIGH CLR. OPENING)
6. WHERE THE OPENING OF THE SILL PORTION OF AN OPERABLE WINDOW IS LOCATD MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE 24" ABOVE THE FINISHED FLOOR SURFACE OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND A HEIGHT OF 24" SHALL BE FIXED OR HAVE OPENINGS SUCH THAT A 4" DIAMETER SPHERE CANNOT PASS. EXCEPTION: OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM 2208 OR F 2090. THE GUARD MAY NOT HAVE OPENINGS THAT A 4" SPHERE IN DIAMETER CAN PASS THRU
7. PROVIDE A GASKET OR WEATHERSTRIPPING TO PROVIDE A SUBSTANTIALLY AIRTIGHT SEAL
8. INSTANTANEOUS WATER HEATERS WITH INPUT RATING GREATER THAN 6.8kBTU/hr (2-kw) SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBBS OR OTHER FITTINGS ON EACH VALVE FLUSHING THE WATER HEATER WHEN VALVES ARE CLOSED. PER 2019 CA ENERGY CODE 110.3(c)7
9. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS

## ENERGY COMPLIANCE SCHEDULE

| REQUIREMENT | VALUES OR NOTES |
|---|---|
| WALL INSULATION | 2x4=R-15, 2x6=R-19 |
| ATTIC INSULATION | R-49 |
| FLOOR INSULATION | R-19 |
| DUCT INSULATION | R-8.0 |
| HVAC HEATING | 0.95 AFUE |
| HVAC COOLING | 18.0 SEER, EER 13.0 |
| RINNAI TANKLESS WATER HEATER | 0.95 ENERGY FACTOR |
| ROOF REQUIRED | RADIANT BARRIER SHEETING |
| COOL ROOF | TILE |
| EXT. FOAM INSULATION | 1" THK. FOAM INSULATION R-4.0 |
| LIGHTING | SEE ELECTRICAL SHEETS |
| HERS HIGH ENERGY EFFICIENCY RATIO (EER) | PRIOR TO FINAL INSPECTION |
| HERS DUCT LEAKAGE TESTING | PRIOR TO FINAL INSPECTION |
| HERS HIGH EFFICIENCY INSULATION INSTALL | PRIOR TO FINAL INSPECTION |

AGENDA ITEM NO. 17.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CONTR. LIC. # 822555


BONADELLE HOMES INC.
PLAN 1579

REVIEWED
FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING


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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
| 3 | | |
| 4 | | |
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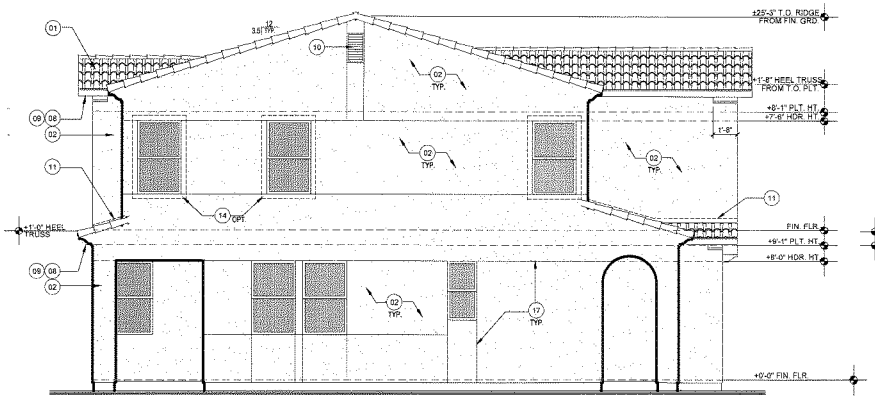
| 6 | | |

SHEET A1.6

TRACT: 5797/SITE(S)#2

HARVEST




## LEFT ELEVATIONS
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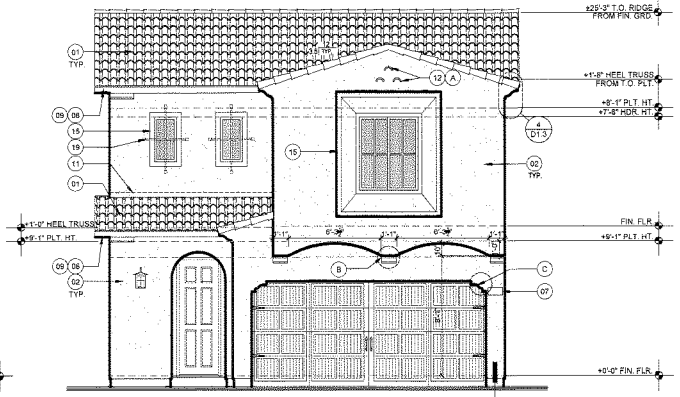
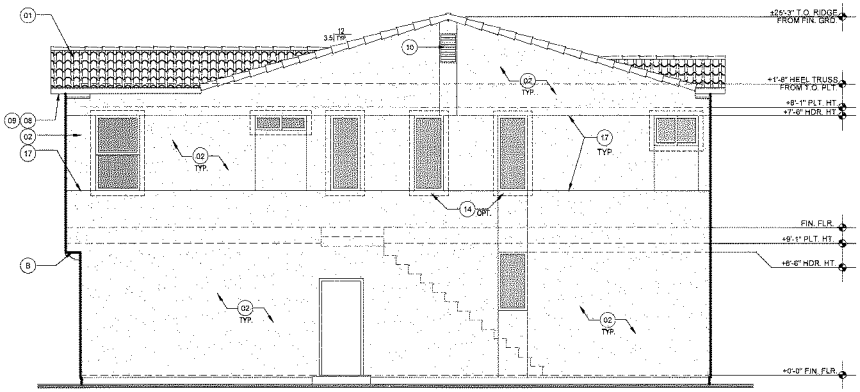
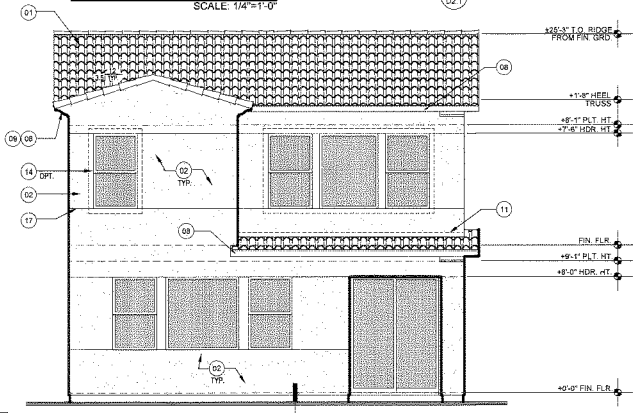



## FRONT ELEVATIONS
SCALE: 1/4"=1'-0"

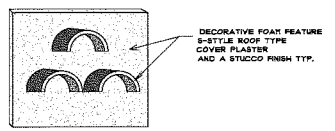



## RIGHT ELEVATIONS
SCALE: 1/4"=1'-0"

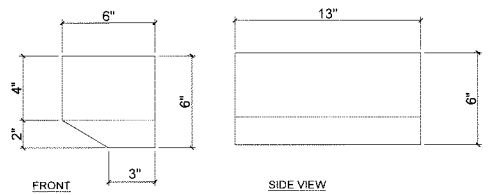
NOTE: DASHED LINES INDICATE OPT. FOAM TRIM AT WINDOWS AND ARCHITECTURAL FEATURES AT CORNER LOTS OR LOTS ADJACENT MAIN STREET. REFER TO PLOT PLANS TO IDENTIFY LOTS.



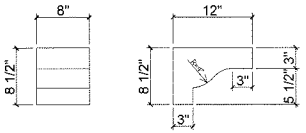

## REAR ELEVATIONS
SCALE: 1/4"=1'-0"




A ARCHITECTURAL FEATURE
SCALE: N.T.S.




B FOAM CORBEL
SCALE: N.T.S.




C FOAM CORBEL
SCALE: N.T.S.

## ELEVATION KEYNOTES

01 TILE ROOF MATERIAL (CC & ESR 1647 OR EQUAL TO COMPLY WITH 2019 CRC R904, R905 SEE ROOF FRAMING PLAN
02 2-COAT CEMENT PLASTER o/1" THK. FOAM w/ (2) LAYER GRADE "D" PAPER UNDER THE CEMENT PLASTER COVERING WHEN APPLIED OVER WOOD SHEATHING w/ LATH AND WEEP SCREED APPLY CEMENT PLASTER FROM 4" ABOVE GRADE MINIMUM TO FINISH CEILINGS, OVERHANGS, AND OTHER
03 ICC ESR#2586 APPROVED THERMAL B SYSTEM AT EXPOSED GABLE END AT ED.
04 MANUFACTURED STONE VENEER ELDORADO STONE VENEER, LIGHTWE IRON OXIDES, CODE CERTIFICATION UNDERWRITER'S LABORATORIES CLASSIFICATION #2467. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH w/ ONE PART TYPE "M" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT.
05 1x LAP SIDING w/15# BUILDING PAPER INSTALLED PER MANUFACTURER'S SPECIFICATIONS
06 DECORATIVE PRE-CAST SURROUND. INSTALL PER MANUFACTURE'S SPECIFICATIONS
07 ILLUMINATED ADDRESS LOCATION
08 2x6 FASCIA / SARGE B.D. (TYP.)
09 12" OVERHANG U.N.O
10 GABLE END VENT - SEE ROOF FRAMING PLAN FOR VENTING CALCS
11 G.I. SHEET METAL FLASHING AND COUNTER FLASHING AS REQUIRED (2019 CRC 1503.2)
12 DECORATIVE (3) 4"x6"x4" DP. ARCHITECTURAL FOAM FEATURES
13 DECORATIVE SHUTTERS TYPICAL
14 FOAM w/ STUCCO FINISH
15 2x4 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR/WINDOW OPENING
16 2x8 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR.
17 1/2" EXPANSION JOINTS INSTALLED @ TIME OF LATH
18 +42" WD. GUARDRAIL - PER PLAN
19 WROUGHT IRON DECORATIVE FEATURE - INSTALLED PER MANUFACTURER'S SPECIFICATIONS
20 6x6 D.F. RE-SAWN POST
21 +42" W.I. GUARDRAIL - PER PLAN

## RADIANT BARRIERS

01 RADIANT BARRIERS: LOUISIANA PACIFIC TECHSHIELD, CALIFORNIA DEPARTMENT OF CONSUMER AFFAIRS CERTIFIED #CA-7370.
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03 THE ATTIC VENTILATION SHALL BE INCREASED TO 1/300 OF ATTIC AREA WITH HIGH/LOW VENTILATION.
04 ICBO APPROVED THERMAL BARRIER PROTECTION BEHIND ONE COAT STUCCO SYSTEM AT EXPOSED GABLE END ATTIC SPACE OR 1/2" SHEET ROCK (2019 CBC 2602.4)

## ELEVATION NOTES

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REVIEWED
FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING

AGENDA ITEM NO. 17.

SPANISH

7030 N. FRUIT AVE. S
FRESNO , CALIFORN
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

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PLAN 1579

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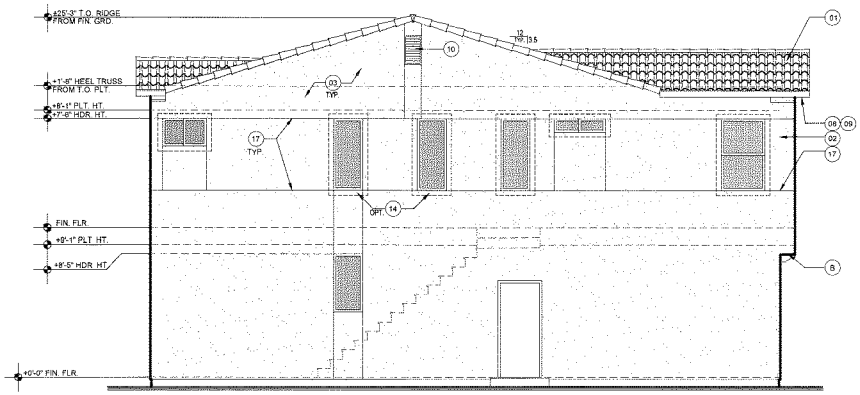
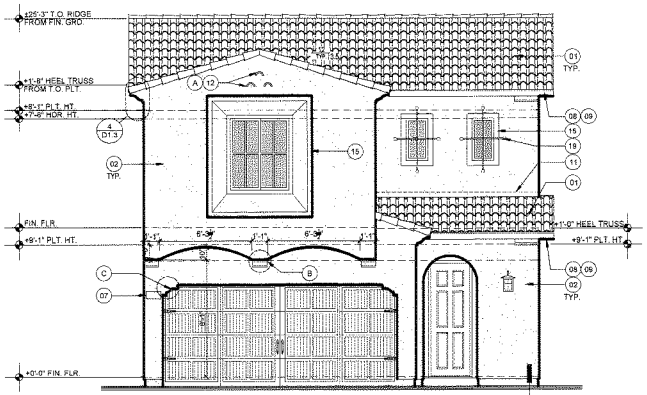
| 6 | | |

SHEET A3.1

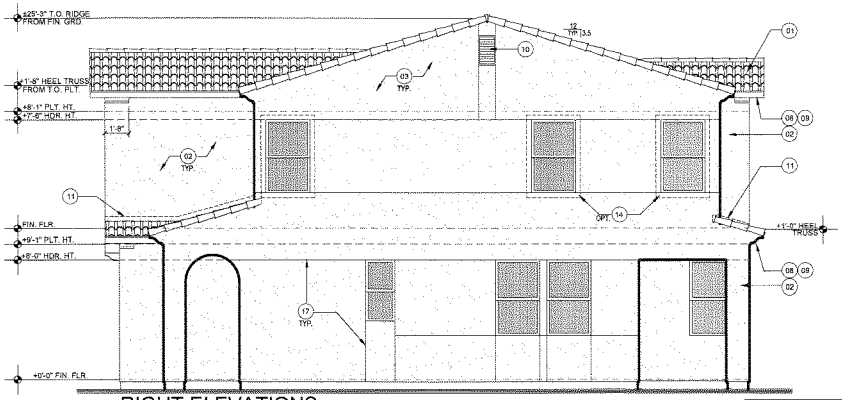
TRACT: RIVERSTONE
HARVEST




## LEFT ELEVATIONS
SCALE: 1/4"=1'-0"




## FRONT ELEVATIONS
SCALE: 1/4"=1'-0"




## RIGHT ELEVATIONS
SCALE: 1/4"=1'-0"

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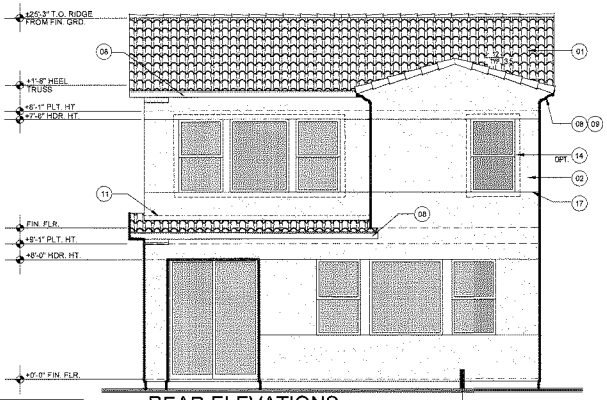


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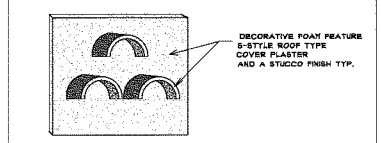
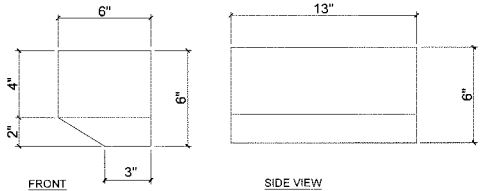
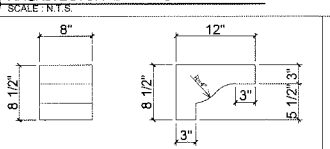
SCALE: 1/4"=1'-0"




A ARCHITECTURAL FEATURE
SCALE : N.T.S.




B FOAM CORBEL
SCALE: N.T.S.




C FOAM CORBEL
SCALE: N.T.S.

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04 MANUFACTURED STONE VENEER: ELDORADO STONE VENEER, LIGHTWEIGHT, ACCENTED WITH CAST IRON ON CROSS, CODE CERTIFICATION ESR-1215 FAVA MATERIAL RELEASE #510 UNDERWRITER'S LABORATORIES CLASSIFICATION #5461. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH w/ ONE PART TYPE "M" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT
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FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING

AGENDA ITEM NO. 17.

SPANISH - LE
7030 N. FRUIT AVE. SU
FRESNO , CALIFORNIA
PHONE: (559) 435-9700 FAX: (559) 435-9707
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| 1 | 12.2.19 | CODE UPDATE |
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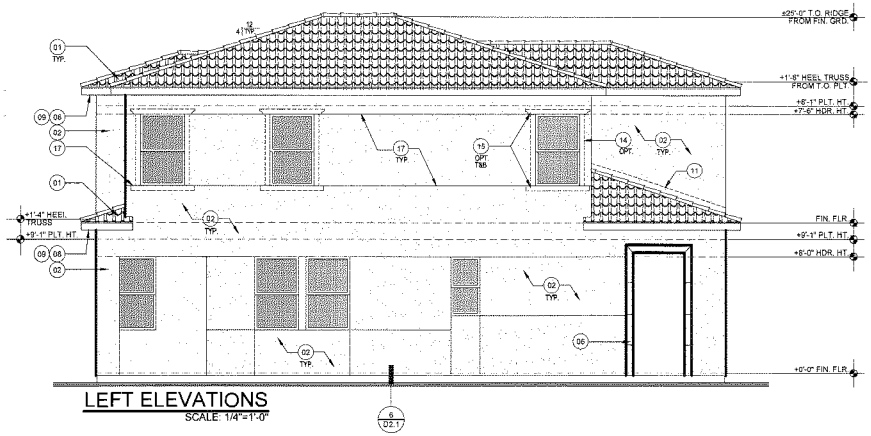
SHEET A3.2

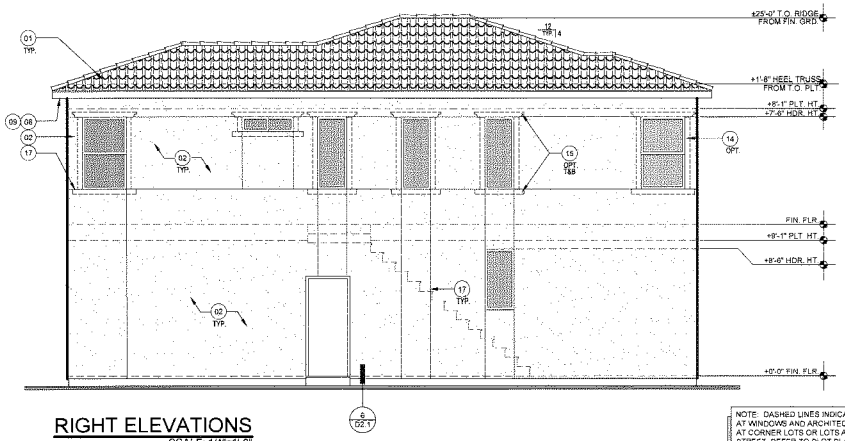
TRACT:
SUBDIVISION:
HARVEST




## LEFT ELEVATIONS
SCALE: 1/4"=1'-0"




## FRONT ELEVATIONS
SCALE: 1/4"=1'-0"

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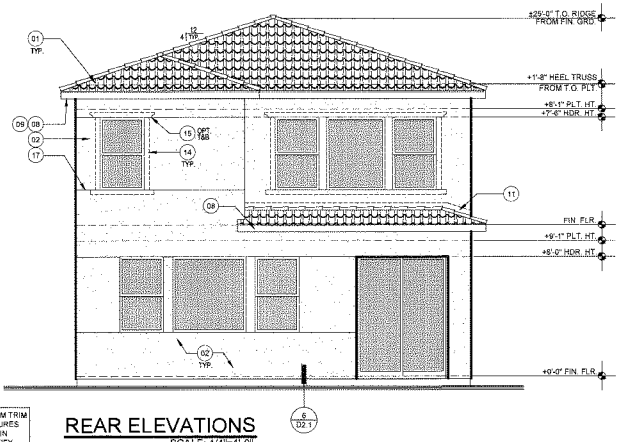


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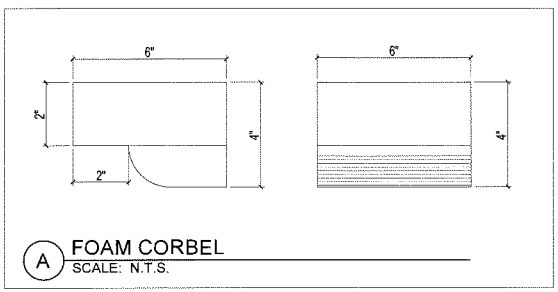


## A FOAM CORBEL
SCALE: N.T.S.

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04 MANUFACTURED STONE VENEER. ELDORADO STONE VENEER, LIGHTWEIGHT AGGREGATE, PORTLAND CEMENT AND IRON OXIDES. CODE CERTIFICATION: ESR-1212 FAMA MATERIAL RELEASE #916 UNDERWRITERS LABORATORIES CLASSIFICATION #2487. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH w/ ONE PART TYPE "M" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT
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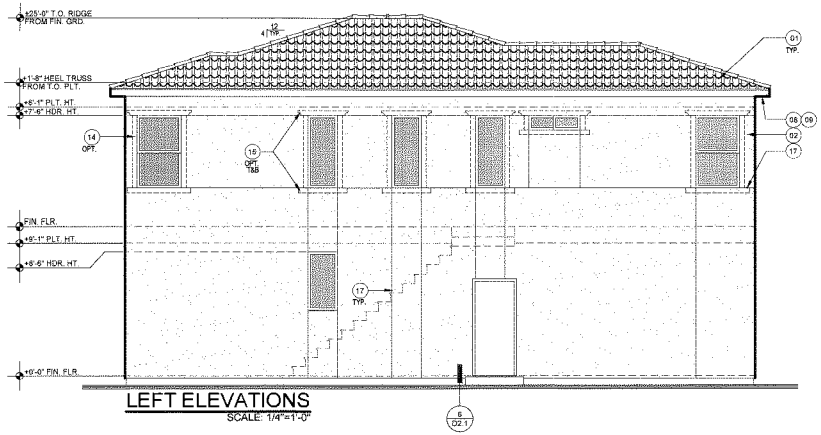
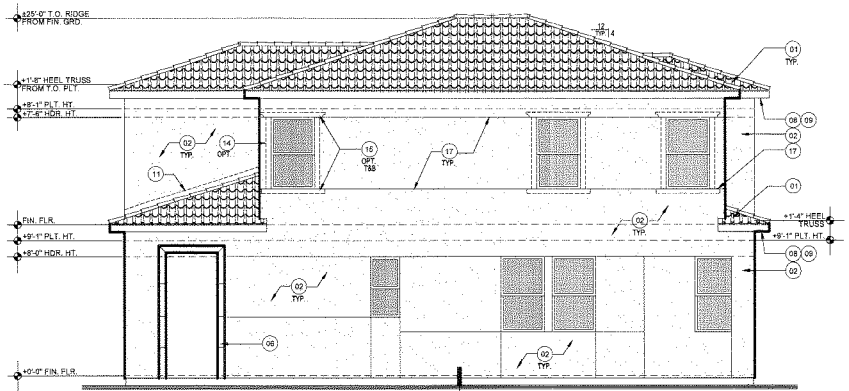
SHEET A3.3
TRACT: RIVERSTONE
HARVEST




LEFT ELEVATIONS
SCALE: 1/4"=1'-0"




FRONT ELEVATIONS
SCALE: 1/4"=1'-0"




RIGHT ELEVATIONS
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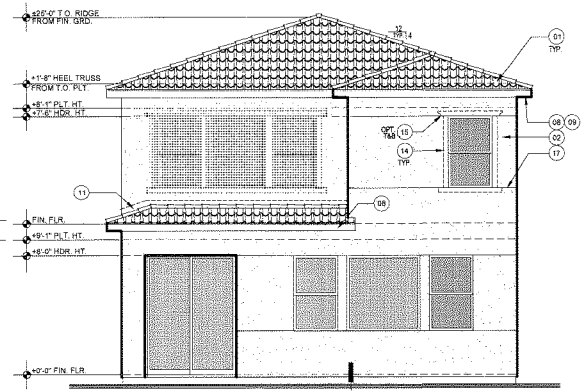


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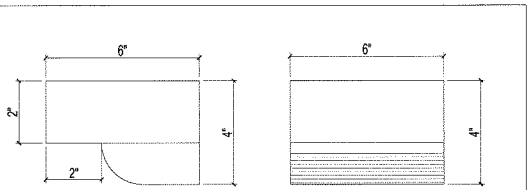


A FOAM CORBEL
SCALE: N.T.S.

## ELEVATION KEYNOTES

01 TILE ROOF MATERIAL ICC # ESR 1647 OR EQUAL TO COMPLY WITH 2019 CRC R904, R905 SEE ROOF FRAMING PLAN
02 2-COAT CEMENT PLASTER O/1" THK. FOAM w/ (2) LAYER GRADE "D" PAPER UNDER THE CEMENT PLASTER COVERING WHEN A[illegible] WEEP SCREED APPLY CEMENT PLAST[illegible] CEILINGS, OVERHANGS, AND OTHER [illegible]
03 ICC ESR#2586 APPROVED THERMAL B[illegible] SYSTEM AT EXPOSED GABLE END ATT[illegible] EQ.
04 MANUFACTURED STONE VENEER. ELDORADO STONE VENEER, LIGHTWEIGHT [illegible] IRON GRIDS. CODE EVALUATION: ESR-1315 FAVA MATERIAL RELEASE #310 UNDERWRITER'S LABORATORIES CLASSIFICATION #5467. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH AND ONE PART TYPE "M" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT.
05 1x LAP SIDING o/1/2 BUILDING PAPER INSTALLED PER MANUFACTURERS SPECIFICATIONS
06 DECORATIVE PRE-CAST SURROUND. INSTALL PER MANUFACTURE'S SPECIFICATIONS
07 ILLUMINATED ADDRESS LOCATION
08 2x6 FASCIA / BARGE BD. (TYP.)
09 12" OVERHANG U.N.O.
10 GABLE END VENT - SEE ROOF FRAMING PLAN FOR VENTING CALCS
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13 DECORATIVE SHUTTERS TYPICAL
14 FOAM w/ STUCCO FINISH
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16 2x8 FOAM TRIM w/ STUCCO FINISH. EXTEND 3" PAST DOOR
17 1/2" EXPANSION JOINTS INSTALLED @ TIME OF LATH
18 +42" WD. GUARDRAIL - PER PLAN
19 WROUGHT IRON DECORATIVE FEATURE - INSTALLED PER MANUFACTURER'S SPECIFICATIONS
20 6x6 D.F. RE-SAWN POST
21 +42" W.I. GUARDRAIL - PER PLAN

## RADIANT BARRIERS

01 RADIANT BARRIERS, LOUISIANA PACIFIC TECHSHIELD, CALIFORNIA DEPARTMENT OF CONSUMER AFFAIRS CERTIFIED #CA-T370.
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AGENDA ITEM NO. 17.

REVIEWED
FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING

TUSCAN - LE
7030 N. FRUIT AVE. SU
FRESNO , CALIFORNIA
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR. LIC. # 822555

BONADELLE HOMES INC.
PLAN 1579

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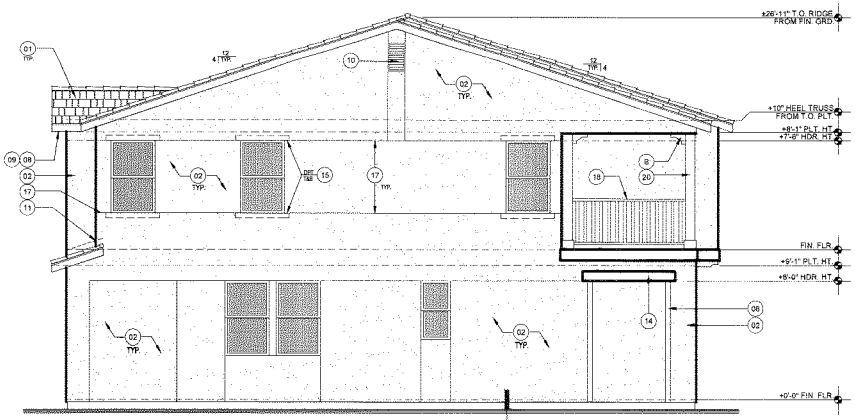
PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS
1 12.2.19 CODE UPDATE

SHEET A3.4

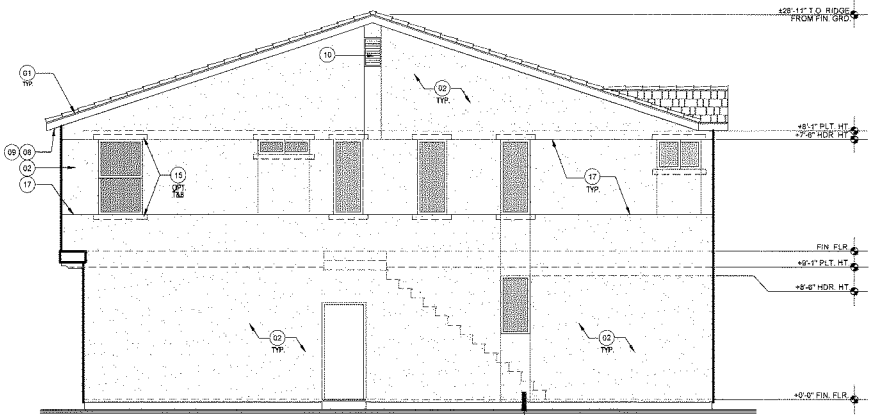
TRACT: RIVERSTONE
HARVEST




LEFT ELEVATIONS
SCALE: 1/4"=1'-0"

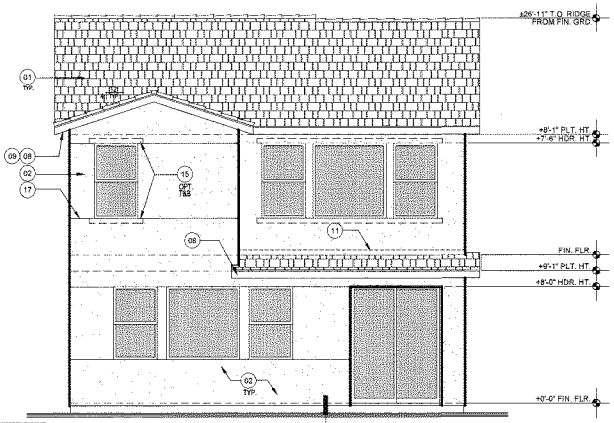



FRONT ELEVATIONS
SCALE: 1/4"=1'-0"

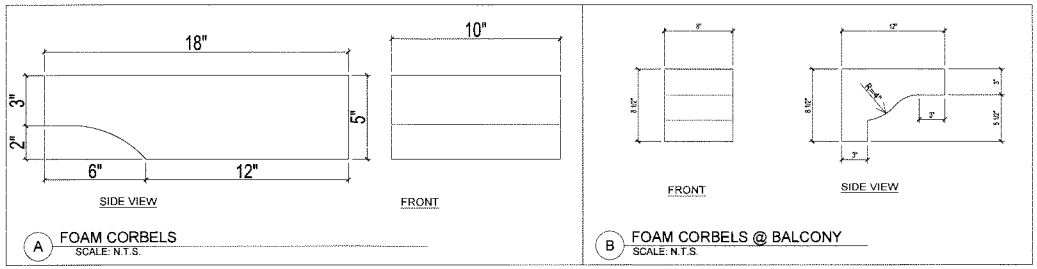



RIGHT ELEVATIONS
SCALE: 1/4"=1'-0"

NOTE: DASHED LINES INDICATE OPT. FOAM TRIM AT WINDOWS AND ARCHITECTURAL FEATURES AT CORNER LOTS OR LOTS ADJACENT MAIN STREET. REFER TO PLOT PLANS TO IDENTIFY LOTS




REAR ELEVATIONS
SCALE: 1/4"=1'-0"




A FOAM CORBELS
SCALE: N.T.S.

B FOAM CORBELS @ BALCONY
SCALE: N.T.S.

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03 ICC ESR#2586 APPROVED THERMAL BARRIER PROTECTION BEHIND ONE COAT STUCCO SYSTEM AT EXPOSED GABLE END ATTIC SPACE OR 1/2" SHEET ROCK (2019 CBC 2602.4)

04 MANUFACTURED STONE VENEER: ELDORADO STONE, VENEER, LIGHTWEIGHT, IRON OXIDES, CODE IDENTIFICATION: ESR-1215 FAVA MATERIAL RELEASE #010 UNDERWRITERS LABORATORIES CLASSIFICATION #2467. INSTALL MANUFACTURED STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VENEER PRODUCT OVER METAL LATH w/ ONE PART TYPE "M" MORTAR AND TWO PARTS MASONRY SAND. VENEER MATERIAL IS LIGHTWEIGHT AND NEEDS NO FOUNDATION SUPPORT

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13 DECORATIVE SHUTTERS TYPICAL

14 FOAM w/ STUCCO FINISH

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AGENDA ITEM NO. 17.

REVIEWED
FOR CODE COMPLIANCE
FEB 25 2020
INTERWEST CONSULTING

MONTE
7030 N. FRUIT AVE. S
FRESNO , CALIFORN
PHONE: (559) 435-9700 FAX: (559) 435-9707
CONTR.LIC. # 822555

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PLAN 1579

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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 12.2.19 | CODE UPDATE |
| 2 | | |
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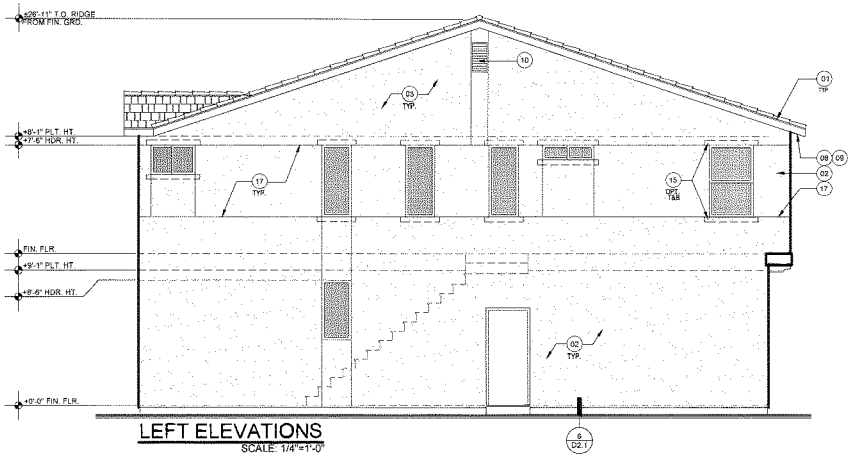
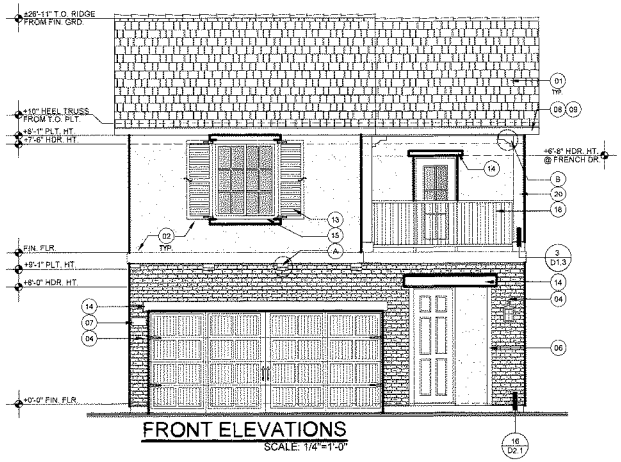
SHEET A3.5

TRACT: RIVERSTONE
HARVEST




LEFT ELEVATIONS
SCALE: 1/4"=1'-0"




FRONT ELEVATIONS
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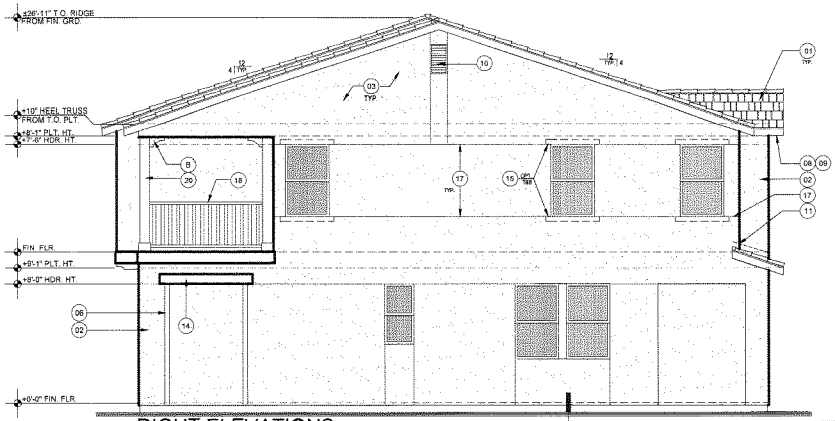
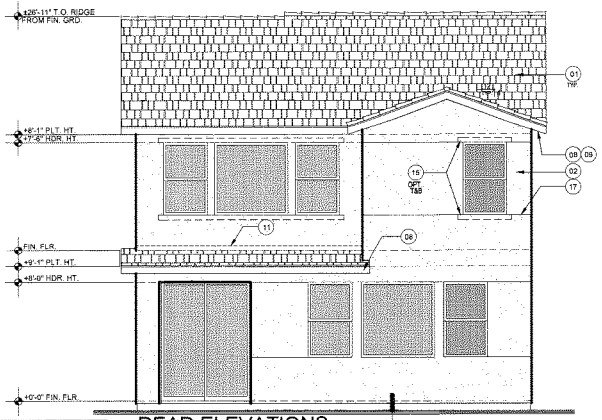



RIGHT ELEVATIONS
SCALE: 1/4"=1'-0"




REAR ELEVATIONS
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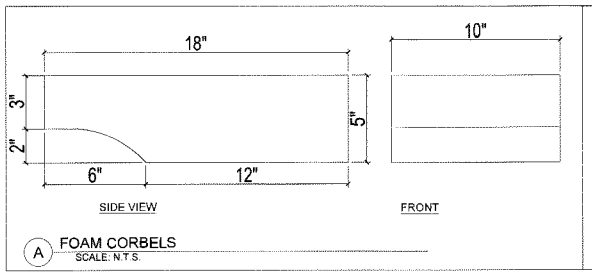
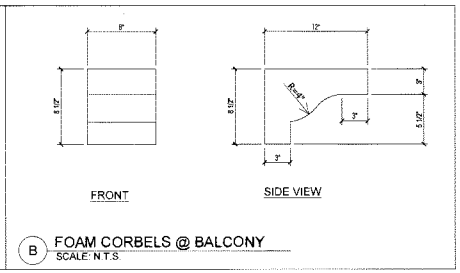



A FOAM CORBELS
SCALE: N.T.S.




B FOAM CORBELS @ BALCONY
SCALE: N.T.S.

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03 ICC ESR2538 APPROVED THERMAL B
SYSTEM AT EXPOSED GABLE END AT
EQ.
04 MANUFACTURED STONE VENEER
ELDORADO STONE VENEER, LIGHTWEIGHT AGGREGATE FACTORED CEMENT AND
IRON OXIDES. CODE EVALUATION: ESR-1212 PANA MATERIAL RELEASE #810.
UNDERWRITER'S LABORATORIES CLASSIFICATION #5467. INSTALL MANUFACTURED
STONE VENEER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL
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PLOT DATE: 2.3.20
MASTER PLAN NO.

REVISIONS

| | | |
|---|---|---|
| 1 | 10.2.19 | CODE UPDATE |
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SHEET A3.6

TRACT:
RIVERSTONE

HARVEST

# OFFICE MEMO

DATE: 10/02/2024

TO: City of Clovis

FROM: Fresno County Transportation Planning

SUBJECT: Review of TM 6467

PROJECT OVERVIEW:

TM6467; A request to approve a vesting tentative tract map for a 162-lot single-family planned residential development. This entitlement is being processed concurrently with PDP2024-003. The project site is part of the RO310 (previously distributed with other entitlements on 9/17/2024)

**Table A: ITE Trip Generation (210 Single Family Detached Homes)**

| Land Use/Project | Dwelling Units | Weekday | | A.M. Peak Hour | | P.M. Peak Hour | |
|---|---|---|---|---|---|---|---|
| | | Rate | Total | Rate | Total | Rate | Total |
| TM 6467 | 162 | 9.43 | 1528 | .75 | 122 | .99 | 160 |
| **Total Net New Project Trips** | | | +1528 | | **+122** | | +160 |

COMMENTS/ MITIGATION:

This project will impact county facilities and should require a TIS, please include the county in all future routings best point of contact is bhines@fresnocountyca.gov. Using ITE trip Generation Manual (11th Edition) trips are calculated to be over the county's threshold.

A Vehicle Miles Traveled (VMT) analysis should also be prepared for the proposed development.

If you have any further questions regarding this matter, please contact Brody Hines at bhines@fresnocountyca.gov

Sincerely,

Brody Hines

**County of Fresno**
DEPARTMENT OF PUBLIC HEALTH
Environmental Health Division

September 24, 2024

LU0022304
2604

Marissa Jensen, Assistant Planner
City of Clovis
Planning and Development Services Department
1033 Fifth Street
Clovis, CA 93612

Dear Ms. Jensen:

PROJECT NUMBER: **TM 6467, PDP2024-003**

**TM6467**; A request to approve a vesting tentative tract map for a 162-lot single-family planned residential development. **PDP2024-003**; A planned development permit request for a 162-lot single-family planned residential development for land located on the east side N. Minnewawa Avenue, between Perrin and Shepherd Avenues.

**APN: 556-030-04S, -06S, -08S, -09S ZONING: County AE 20 to R-1-PRD**
**ADDRESS: SEC N. Minnewawa & Perrin Avenues**

Recommended Conditions of Approval:

- Construction permits for development should be subject to assurance of sewer capacity of the Regional Wastewater Treatment Facility. Concurrence should be obtained from the California Regional Water Quality Control Board (RWQCB). For more information, contact staff at (559) 445-5116.

- Construction permits for the development should be subject to assurance that the City of Clovis community water system has the capacity and quality to serve this project. Concurrence should be obtained from the State Water Resources Control Board, Division of Drinking Water-Southern Branch. For more information call (559) 447-3300.

- The proposed project has the potential to expose nearby residents to elevated noise levels. Consideration should be given to the Fresno County Ordinance Code and your City's municipal code.

- As a measure to protect ground water, all water wells and/or septic systems that exist or have been abandoned within the project area should be properly destroyed by an appropriately licensed contractor.

- Should any underground storage tank(s) be found during the project, the applicant shall apply for and secure an Underground Storage Tank Removal Permit from the Fresno County Department of Public Health, Environmental Health Division. Contact the Fresno County Hazmat Compliance Program at (559) 600-3271 for more information.

The following comments pertain to the demolition of any existing structure(s):

- Should the structure(s) have an active rodent or insect infestation, the infestation should be abated prior to demolition of the structure(s) in order to prevent the spread of vectors to adjacent properties.

- In the process of demolishing the existing structure(s), the contractor may encounter asbestos containing construction materials and materials coated with lead-based paints.

- If asbestos containing materials are encountered, contact the San Joaquin Valley Air Pollution Control District at (559) 230-6000 for more information.

- If the structure(s) were constructed prior to 1979 or if lead-based paint is suspected to have been used in these structures, then prior to demolition work the contractor should contact the following agencies for current regulations and requirements:

  - California Department of Public Health, Childhood Lead Poisoning Prevention Branch, at (510) 620-5600.

  - United States Environmental Protection Agency, Region 9, at (415) 947-8000.

  - State of California, Industrial Relations Department, Division of Occupational Safety and Health, Consultation Service (CAL-OSHA) at (559) 454-5302.

REVIEWED BY:



Kevin Tsuda, R.E.H.S.
Environmental Health Specialist II (559) 600-33271

KT

cc: Deep Sidhu Environmental Health Division (CT. 55.25)
John Bonadelle- Applicant (jab@bonadelle.com)

## LEGAL DESCRIPTION:

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE UNINCORPORATED AREA OF CLOVIS, COUNTY OF FRESNO, STATE OF CALIFORNIA AND IS DESCRIBED AS FOLLOWS:

PARCEL 1:
THE EAST HALF OF THE NORTH HALF OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 12 SOUTH, RANGE 21 EAST, MOUNT DIABLO BASE AND MERIDIAN, ACCORDING TO THE UNITED STATES GOVERNMENT TOWNSHIP PLATS, EXCEPTING THEREFROM ALL THAT PORTION OF THE WEST HALF OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 12 SOUTH, RANGE 21 EAST, MOUNT DIABLO BASE AND MERIDIAN, ACCORDING TO THE UNITED STATES GOVERNMENT TOWNSHIP PLATS, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF SAID WEST HALF OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 20; SAID POINT BEARING WESTERLY ALONG THE NORTH LINE OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 20, 331.22 FEET FROM THE NORTHEAST CORNER OF SAID NORTHWEST QUARTER OF THE SOUTHWEST QUARTER; THENCE SOUTHERLY ALONG THE EAST LINE OF SAID WEST HALF OF THE NORTHEAST QUARTER OF NORTHWEST QUARTER OF SOUTHWEST QUARTER OF SAID SECTION 20, 280 FEET TO A 1 INCH IRON PIPE; THENCE WESTERLY PARALLEL TO THE NORTH LINE OF SAID NORTHWEST QUARTER OF SOUTHWEST QUARTER OF SAID SECTION 20, 174.24 FEET TO A 1 INCH IRON PIPE; THENCE NORTHERLY PARALLEL TO THE EAST LINE OF SAID WEST HALF OF NORTHEAST QUARTER OF NORTHWEST QUARTER OF SOUTHWEST QUARTER OF SAID SECTION 20, 280 FEET TO A POINT ON THE NORTH LINE THEREOF; THENCE EASTERLY ALONG THE NORTH LINE OF SAID WEST HALF OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 20, 174.24 FEET TO THE POINT OF BEGINNING.

ALSO EXCEPTING THEREFROM ANY PORTION THEREOF LYING WITHIN THE RIGHT OF WAY OF THE ENTERPRISES CANAL AS GRANTED TO E.B. FERRIN BY DEED RECORDED IN BOOK 153 PAGE 140 OF DEEDS.

ALSO EXCEPTING THEREFROM N UNDIVIDED 3/4 INTEREST IN AND TO ALL OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES AND MINERALS OF WHATSOEVER KIND AND NATURE IN, UPON OR BENEATH SAID PROPERTY AS EXCEPTED AND RESERVED IN THE DEED RECORDED JUNE 20, 1941 IN BOOK 1883 PAGE 461 AND IN THE DEED RECORDED OCTOBER 23, 1958 IN BOOK 4127, PAGE 647 OF OFFICIAL RECORDS.

PARCEL 2:
ALL THAT PORTION OF THE WEST HALF OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 12, SOUTH, RANGE 21, EAST, MOUNT DIABLO BASE AND MERIDIAN, ACCORDING TO THE UNITED STATES GOVERNMENT TOWNSHIP PLATS, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF SAID WEST HALF OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 20; SAID POINT BEARING WESTERLY ALONG THE NORTH LINE OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 20, 331.22 FEET FROM THE NORTHEAST CORNER OF SAID NORTHWEST QUARTER OF THE SOUTHWEST QUARTER; THENCE SOUTHERLY ALONG THE EAST LINE OF SAID WEST HALF OF THE NORTHEAST QUARTER OF NORTHWEST QUARTER OF SOUTHWEST QUARTER OF SAID SECTION 20, 280 FEET TO A 1 INCH IRON PIPE; THENCE WESTERLY PARALLEL TO THE NORTH LINE OF SAID NORTHWEST QUARTER OF SOUTHWEST QUARTER OF SAID SECTION 20, 174.24 FEET TO A 1 INCH IRON PIPE; THENCE NORTHERLY PARALLEL TO THE EAST LINE OF SAID WEST HALF OF NORTHEAST QUARTER OF NORTHWEST QUARTER OF SOUTHWEST QUARTER OF SAID SECTION 20, 280 FEET TO A POINT ON THE NORTH LINE THEREOF; THENCE EASTERLY ALONG THE NORTH LINE OF SAID WEST HALF OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 20, 174.24 FEET TO THE POINT OF BEGINNING.

ALSO EXCEPTING THEREFROM AN UNDIVIDED 3/4 INTEREST IN AND TO ALL OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES AND MINERALS OF WHATSOEVER KIND AND NATURE IN,UPON OR BENEATH SAID PROPERTY AS EXCEPTED AND RESERVED IN THE DEED RECORDED JUNE 20, 1941 IN BOOK 1883, PAGE 461 AND IN THE DEED RECORDED OCTOBER 23, 1958 IN BOOK 4127, PAGE 647 OF OFFICIAL RECORDS.

PARCEL 3:
THE SOUTH HALF OF THE SOUTH HALF OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 14 SOUTH, RANGE 21 EAST, MOUNT DIABLO BASE AND MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF. EXCEPTING THEREFROM THE WEST 30 FEET. ALSO EXCEPTING THEREFROM THAT PORTION THEREOF, IF ANY, INCLUDED WITHIN THE RIGHT-OF-WAY OF THE ENTERPRISE CANAL, GRANTED TO E.B., FERRIN BY DEED RECORDED IN BOOK 153 PAGE 140 OF DEEDS. ALSO EXCEPTING THEREFROM AN UNDIVIDED 1/2 INTEREST IN AND TO ALL OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES AND MINERALS OF WHATSOEVER KIND AND NATURE IN, UPON OR BENEATH SAID PROPERTY, AS RESERVED IN THE DEED RECORDED JANUARY 21, 1941 AS DOCUMENT NO. 2239 IN BOOK 1883 PAGE 461 OFFICIAL RECORDS. ALSO EXCEPTING THEREFROM AN UNDIVIDED 1/4 INTEREST IN AND TO ALL OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES AND MINERALS OF WHATSOEVER KIND AND NATURE IN, UPON OR BENEATH SAID PROPERTY, AS RESERVED IN THE DEED FROM J.R. WOODBURY AND WIFE, TO JACK DOKE AND WIFE, DATED JANUARY 20, 1958, AND RECORDED OCTOBER 23, 1958 IN BOOK 4127 PAGE 647 OFFICIAL RECORDS.

PARCEL 4:
THE NORTH HALF OF THE SOUTH HALF OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 14 SOUTH, RANGE 21 EAST, MOUNT DIABLO BASE AND MERIDIAN, ACCORDING TO THE UNITED STATES GOVERNMENT TOWNSHIP PLATS. EXCEPTING THEREFROM THE WEST 30 FEET. ALSO EXCEPTING THEREFROM THAT PORTION THEREOF, INCLUDED WITHIN THE RIGHT OF WAY OF THE ENTERPRISE CANAL, GRANTED TO E.B. FERRIN BY DEED RECORDED IN BOOK 153, PAGE 140 OF DEEDS.

ALSO EXCEPTING THEREFROM AN UNDIVIDED 1/4 INTEREST IN AND TO ALL OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES AND MINERALS OF WHATSOEVER KIND AND NATURE IN, UPON OR BENEATH SAID PROPERTY, AS RESERVED IN THE DEED FROM J.R. WOODBURY AND WIFE, TO JACK DOKE AND WIFE, DATED JANUARY 20, 1958 AND RECORDED OCTOBER 23,1958 IN BOOK 4127, PAGE 657, OFFICIAL RECORDS.

ALSO EXCEPTING THE WEST 30 FEET THEREOF AS GRANTED TO THE COUNTY OF FRESNO BY DEED RECORDED MAY 4, 1977, BOOK 6765, PAGE 58, SERIES NO. 44827, OFFICIAL RECORDS.

APN: 556-030-08S, 556-030-09S, 556-030-04S, 556-030-06S

## NOTES:

1. THIS AREA IS SUBJECT TO FLOODZONE X (UNSHADED).
2. ALL IMPROVEMENTS SHALL BE AS REQUIRED BY THE CITY OF CLOVIS TO CITY STANDARDS, AND SHALL INCLUDE SANITARY SEWER, DOMESTIC WATER, UNDERGROUND POWER, TELEPHONE, GAS, CONCRETE CURBS, GUTTERS, SIDEWALKS, PERMANENT STREET PAVEMENT STREET LIGHTS, ETC.
3. THERE SHALL BE NO GRADE DIFFERENTIALS OF GREATER THAN 6" WITHIN 200 FEET OF THE SITE UNLESS APPROVED BY THE CITY OF FRESNO DEVELOPMENT DEPARTMENT.
4. ALL EXISTING ABOVE GROUND USES OR STRUCTURES SUCH AS BUILDINGS, WATER WELLS, POWER LINES, TOWERS, ETC., WITHIN THE PROPOSED SUBDIVISION ARE TO BE REMOVED.
5. ALL UNDERGROUND FEATURES SUCH AS WELLS, CESSPOOLS, SEWERS, CULVERTS, STORM DRAINS, DUMP SITES AND OTHER UNDERGROUND STRUCTURES WITHIN THE PROPOSED SUBDIVISION ARE TO BE REMOVED AND ABANDONED.
6. THE DESIGN OF THE PROPOSED SUBDIVISION SHALL PROVIDE TO THE EXTENT FEASIBLE FOR FUTURE PASSIVE OR NATURAL HEATING OR COOLING OPPORTUNITIES AND OTHER MEASURES THAT CONSERVE NONRENEWABLE ENERGY RESOURCES AS PROVIDED IN THE SUBDIVISION MAP ACT.

## ASSESSOR'S PARCEL NUMBER, SITE ADDRESS, USE & OWNERSHIP

APN: 556-030-04
SITE ADDRESS: 9450 N. MINNEWAWA AVE, CLOVIS, CA 93619
OWNER: JOHN & TRICIA ZIMMERER, JON A. KURISU, MERRILL MICHAEL & MISHA KAY WIGHT MILLER, & DAVID M. WILLIAMS
MAILING ADDRESS: 220 TRENTON AVE, CLOVIS, CA 93619
USE: DUPLEX

APN:556-030-06
SITE ADDRESS: 9434 N. MINNEWAWA AVE, CLOVIS, CA 93619
OWNER: JOHN & TRICIA ZIMMERER, JON A. KURISU, MERRILL MICHAEL & MISHA KAY WIGHT MILLER, & DAVID M. WILLIAMS
MAILING ADDRESS: 220 TRENTON AVE, CLOVIS, CA 93619
USE: SINGLE FAMILY RESIDENTIAL

APN:556--030--08
SITE ADDRESS: 4165 PERRIN RD, CLOVIS, CA 93619
OWNER: JOHN & TRICIA ZIMMERER, JON A. KURISU, MERRILL MICHAEL & MISHA KAY WIGHT MILLER, & DAVID M. WILLIAMS
MAILING ADDRESS: 220 TRENTON AVE, CLOVIS, CA 93619
USE: RESIDENTIAL

APN:556--030--09
SITE ADDRESS: 4185 PERRIN RD, CLOVIS, CA 93619
OWNER: JOHN & TRICIA ZIMMERER, JON A. KURISU, MERRILL MICHAEL & MISHA KAY WIGHT MILLER, & DAVID M. WILLIAMS
MAILING ADDRESS: 220 TRENTON AVE, CLOVIS, CA 93619
USE:SINGLE FAMILY RESIDENTIAL

SOURCE OF DATA
RECORD INFORMATION

EXISTING BUILDINGS
ALL EXISTING BUILDINGS & STRUCTURES TO BE REMOVED

EXISTING TREES
EXISTING TREES TO BE REMOVED AS NEEDED

PROPOSED ZONING
R-1-PRD

EXISTING ZONING
AE-20

PROPOSED GENERAL PLAN LAND USE
MEDIUM DENSITY RESIDENTIAL,
MEDIUM-HIGH DENSITY RESIDENTIAL

SOURCE OF WATER
CITY OF CLOVIS

SOURCE OF SEWAGE DISPOSAL
CITY OF CLOVIS

SOURCE OF WASTE DISPOSAL
CITY OF CLOVIS

SOURCE OF ELECTRICITY
PG&E

MAXIMUM LOT COUNT ALLOWED
MEDIUM: 7.0 DU/AC. X 4.71 NET AC. = 33 DU
MEDIUM-HIGH: 15.0 DU/AC. X 10.4 NET AC. = 156 DU
TOTAL DU ALLOWED = (33 LOTS + 139 LOTS) = 189 LOTS

SOURCE OF GAS
PG&E

SOURCE OF CABLE T.V.
COMCAST

AVERAGE LOT SIZE
2,364 S.F.

DENSITY
11.61 D.U./AC.

SOURCE OF TELEPHONE
AT&T

SITE AREA
14.57 AC. (GROSS)
13.95 AC. (NET)

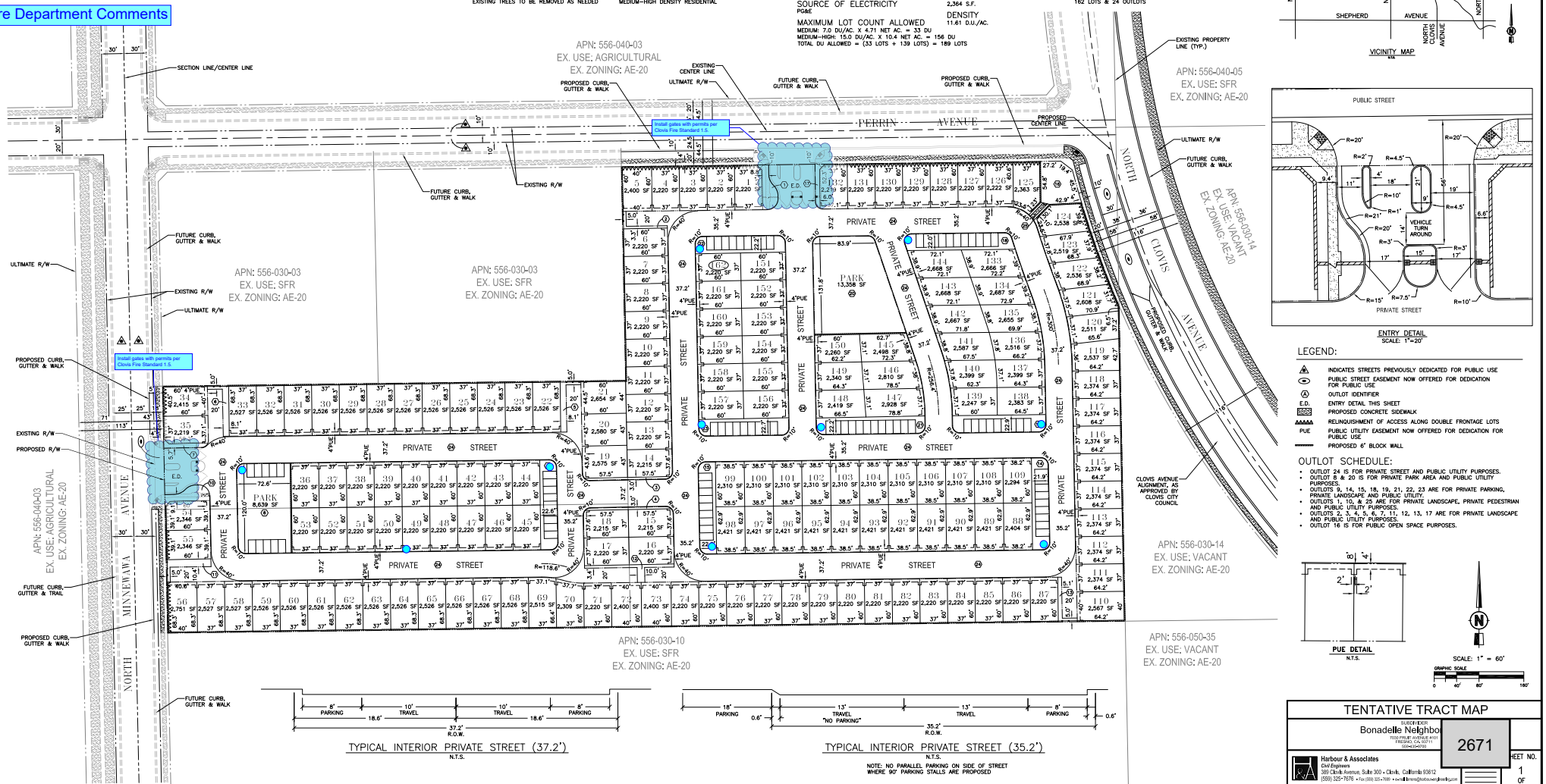
NUMBER OF LOTS
162 LOTS & 24 OUTLOTS

VESTING
TENTATIVE SUBDIVISION MAP
OF

# TRACT NO. 6467

IN THE CITY OF CLOVIS
FRESNO COUNTY, CALIFORNIA

Fire Department Comments







TYPICAL INTERIOR PRIVATE STREET (37.2')
N.T.S.

TYPICAL INTERIOR PRIVATE STREET (35.2')
N.T.S.

NOTE: NO PARALLEL PARKING ON SIDE OF STREET WHERE 90° PARKING STALLS ARE PROPOSED




VICINITY MAP
N.T.S.




ENTRY DETAIL
SCALE: 1"=20'

## LEGEND:

- INDICATES STREETS PREVIOUSLY DEDICATED FOR PUBLIC USE
- PUBLIC STREET EASEMENT NOW OFFERED FOR DEDICATION FOR PUBLIC USE
- OUTLOT IDENTIFIER
- E.D. ENTRY DETAIL THIS SHEET
- PROPOSED CONCRETE SIDEWALK
- RELINQUISHMENT OF ACCESS ALONG DOUBLE FRONTAGE LOTS
- PUE PUBLIC UTILITY EASEMENT NOW OFFERED FOR DEDICATION FOR PUBLIC USE
- PROPOSED 6' BLOCK WALL

## OUTLOT SCHEDULE:

- OUTLOT 24 IS FOR PRIVATE STREET AND PUBLIC UTILITY PURPOSES.
- OUTLOT 8 & 20 IS FOR PRIVATE PARK AREA AND PUBLIC UTILITY PURPOSES.
- OUTLOTS 9, 14, 15, 18, 19, 21, 22, 23 ARE FOR PRIVATE PARKING, PRIVATE LANDSCAPE AND PUBLIC UTILITY.
- OUTLOTS 1, 10, & 25 ARE FOR PRIVATE LANDSCAPE, PRIVATE PEDESTRIAN AND PUBLIC UTILITY PURPOSES.
- OUTLOTS 2, 3, 4, 5, 6, 7, 11, 12, 13, 17 ARE FOR PRIVATE LANDSCAPE AND PUBLIC UTILITY PURPOSES.
- OUTLOT 16 IS FOR PUBLIC OPEN SPACE PURPOSES.




PUE DETAIL
N.T.S.

SCALE: 1" = 60'
GRAPHIC SCALE
0 40' 80' 160'

## TENTATIVE TRACT MAP

SUBDIVIDER
Bonadelle Neighborhoods, LLC
7550 N. FRUIT AVENUE #101
FRESNO, CA. 93711
(559)447-0700

2671

SHEET NO.
1 OF 1

Harbour & Associates
Civil Engineers
389 Clovis Avenue, Suite 300 • Clovis, California 93612
(559) 322-7076 • Fax (559) 322-7059 • e-mail: brians@harbourandassociates.com

DATE: 9-18-24 | SCALE: 1"= 60' | DRAWN BY: SDH

W.O. 833-031

California Department of Transportation

DISTRICT 6 OFFICE
1352 WEST OLIVE AVENUE | P.O. BOX 12616 | FRESNO, CA 93778-2616
(559) 908-7064 | FAX (559) 488-4195 | TTY 711
www.dot.ca.gov

May 8, 2024

FRE-168-R7.299
TIS – Transportation Impact Study
Clovis and Perrin Subdivision
https://ld-igr-gts.dot.ca.gov/district/6/report/30455

***SENT VIA EMAIL***

Matthew Arndt
JLB Traffic Engineering
516 W. Shaw Avenue
Fresno, CA 93704

Dear Mx. Matthew Arndt:

Thank you for the opportunity to review the Clovis and Perrin Subdivision Traffic Impact Analysis (TIA) and Vehicle Miles Traveled (VMT) Analysis. These analysis documents are for a project that proposes to construct a 162 single family residential development. The project is located on the southeast quadrant of Minnewawa Avenue and Perrin Road in the City of Clovis, approximately 2.45 miles north of the State Route (SR) 168 and Herndon Avenue as well as the SR 168 and Fowler Avenue interchange.

The project was previously reviewed as DRC 2023-030 and as a TIA Scope of Work with our office submitting a comment letter/response dated August 1, 2023, and October 11, 2023, respectively.

Caltrans provides the following comments consistent with the State's smart mobility goals that support a vibrant economy and sustainable communities:

1. This project seems to be part of the Heritage Grove Specific Plan, which to our understanding the City is still developing the Draft Environmental Impact Report with the release of the Notice of Preparation.

2. It is noted in the VMT Analysis that the project is projected to result in a significant but unavoidable VMT impact. Understanding this, Caltrans recommends that the City consider creating a VMT Mitigation Impact Fee Program to help reduce potential impacts on the State Highway System.

3. With this project and others being proposed/developed within and around the Heritage Grove Specific Plan, the City is encouraged to incorporate future SR 168 interchange improvements as part of the City's transportation impact fee program.

4. It is recommended that the project contribute to all applicable Impact Fee programs, such as the City's Development Fee and the Regional Transportation Mitigation Fee (RTMF) program to ensure that the developments contribute to its fair share toward future improvement needs.

5. Caltrans recommends the project proponents consider working with the City to convert a portion of the planned residential units to affordable housing units.

6. Alternative transportation policies should be applied to the development. An assessment of multimodal facilities should be conducted to develop an integrated multimodal transportation system to serve and help alleviate traffic congestion resulting from the project and related development in the area of the City. The assessment should include the following:

   a. Pedestrian walkways should not only be limited to the project's internal connectivity but be connected to existing walkways and transit facilities outside the project area.

   b. The project should consider coordinating connections to local and regional bicycle pathways to encourage the use of bicycles for commuter and recreational purposes.

   c. If transit is not available within 1/4-mile of the project area, transit should be extended to provide services to high-activity centers of the project.

   d. The project proponents should consider working with the City in exploring opportunities for carpooling programs that can be utilized by future residents within and around this project.

7. As part of the statewide effort to reduce greenhouse gas emissions, Caltrans recommends the project proponents consider the installation of Electric Vehicle (EV) charging station capabilities into the planned housing units.

8. Active Transportation Plans and Smart Growth efforts support the state's 2050 Climate goals. Caltrans supports reducing VMT and GHG emissions in ways that increase the likelihood that people will use and benefit from a multimodal transportation network.

If you have any other questions, please call or email Christopher Xiong at (559) 908-7064 or Christopher.Xiong@dot.ca.gov.

Sincerely,



DAVID PADILLA, Branch Chief
Transportation Planning – North

CLOVIS UNIFIED SCHOOL DISTRICT

**Governing Board**
Hugh Awtrey
Deena L. Combs-Flores
David DeFrank
Steven G. Fogg, M.D.
Yolanda Moore
Clinton Olivier
Tiffany Stoker Madsen

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Corrine Folmer, Ed.D.
*Superintendent*

Norm Anderson
*Deputy Superintendent*

Marc Hammack, Ed.D.
*Associate Superintendent*

Barry S. Jager, Jr.
*Associate Superintendent*

Michael Johnston
*Associate Superintendent*

September 18, 2024

Marissa Jensen, MA
Planning and Development Services Dept.
1033 Fifth St.
Clovis, CA 93612

SUBJECT: TM-6467; PDP2024-003
162 single-family gated subdivision
East side of N. Minnewawa, between Perrin & Shepherd Avenues
APN: 556-030-04, 06, 08, 09

Dear Marissa Jensen:

The purpose of this letter is to provide school district information relative to the above-referenced development and to comply with Business and Professions Code section 11010, subdivision (b)(11)(A) regarding the provision of school-related information to the developer/owner and the State Department of Real Estate.

1. Elementary School Information:

(a) The subject land is presently within the attendance area of the elementary school (grades TK-6) listed below:

| | |
|---|---|
| School Name: | *Riverview Elementary* |
| Address: | *2491 E Behymer Ave Fresno CA 93730-5419* |
| Telephone: | (559) 327-8600 |
| Capacity: | *875* |
| Enrollment: | 709 (CBEDS enrollment *2023-24* school year) |

(b) Because of projected growth in the District and the District's plans for construction of new school facilities, it is possible that (1) adjustment of school attendance areas could occur in the future such that students residing in the project area may be required to attend an elementary school other than the school listed above, and (2) students residing in the project area may attend more than one elementary school within the District during their elementary school years.



1450 Herndon Avenue • Clovis, CA 93611-0599
559-327-9000 • www.cusd.com

2. Intermediate School Information:

| | |
|---|---|
| School Name: | *Granite Ridge Intermediate* |
| Address: | *2770 E International Ave Fresno CA 93730-5400* |
| Telephone: | (559) 327-5000 |
| Capacity: | *1512* |
| Enrollment: | 1191 (CBEDS enrollment *2023-24* school year) |

3. High School Information:

| | |
|---|---|
| School Name: | *Clovis North High School* |
| Address: | *2770 E International Ave Fresno CA 93730-5400* |
| Telephone: | (559) 327-5000 |
| Capacity: | *2700* |
| Enrollment: | 2400 (CBEDS enrollment *2023-24* school year) |

4. Bus transportation is currently provided for grades TK-6 students residing further than one mile from school and for grades 7-12 students residing further than two and one-half miles from school. Transportation will be available for students attending the above-identified elementary, intermediate and high schools in accordance with District standards in effect at the time of enrollment.

5. The District currently levies a school facilities fee of $5.86 per square foot (as of July 1, 2024) for residential development. The fee is adjusted periodically in accordance with law. New development on the subject property will be subject to the fee in place at the time fee certificates are obtained.

The District hereby requests that the information in this letter be provided by the owner/subdivider to all prospective purchasers of property within the project.

Thank you for the opportunity to comment on the project. Please contact me if you have any questions regarding this letter.

Sincerely,

Michael Johnston
Associate Superintendent
Administrative Services

2907 S. Maple Avenue
Fresno, California 93725-2208
Telephone: (559) 233-7161
Fax: (559) 233-8227

**CONVEYANCE. COMMITMENT. CUSTOMER SERVICE.**

October 2, 2024

Marissa Jensen
Planning Division
City of Clovis
1033 Fifth Street
Clovis, CA 93612

RE: Tract Map 6467
N/E Shepherd and Minnewawa avenues

Dear Ms. Jensen:

The Fresno Irrigation District (FID) has reviewed Tract Map 6467 for which the applicant proposes a 162-lot single-family planned residential development, APNs: 556-030-04, 06, 08, 09. FID has the following comments:

1. FID previously reviewed and commented on the subject property on August 2, 2023, as Development Review Committee Application No. DRC2023-030. Those comments and conditions still apply, and copy has been attached for your reference.

Thank you for submitting the proposed project for our review. We appreciate the opportunity to review and comment on the subject documents for this project. If you have any questions, please feel free to contact Chris Lundeen at (559) 233-7161 extension 7410 or clundeen@fresnoirrigation.com.

Sincerely,

Laurence Kimura, P.E.
Chief Engineer

Attachment

G:\Agencies\Clovis\Tract Map\TM6467\TM6467 FID Comment.doc

BOARD OF DIRECTORS President RYAN JACOBSEN Vice-President JERRY PRIETO, JR. CHRISTOPHER WO
GEORGE PORTER GREGORY BEBERIAN General Manager BILL STRETCH

2907 S. Maple Avenue
Fresno, California 93725-2208
Telephone: (559) 233-7161
Fax: (559) 233-8227

CONVEYANCE. COMMITMENT. CUSTOMER SERVICE.

August 2, 2023

Lily Cha-Haydostian
City of Clovis
Planning Division
1033 Fifth Street
Clovis, CA 93612

RE: Development Review Committee Application No. DRC2023-030
N/E Shepherd and Minnewawa avenues

Dear Mrs. Cha-Haydostian:

The Fresno Irrigation District (FID) has reviewed the Development Review Committee Application No. 2023-030 for which the applicant proposes the development of a 170-lot single-family residential subdivision, APNs: 556-030-08S, 09S, 04S, 06S. FID has the following comments:

1. FID does not own, operate, or maintain any facilities located on the subject property, as shown on the attached FID exhibit map.

2. For informational purpose, FID's active Enterprise No. 109 runs northerly approximately 400 feet east of the subject property, as shown on the attached FID exhibit map. Should this project include any street and/or utility improvements in the vicinity of this facility, FID requires it review and approve all plans.

3. For informational purposes, a private facility known as the Hewitt Creek No. 496 runs westerly and traverses the southern edge of the subject property, as shown on the attached FID exhibit map. FID records indicate this facility is active and should be treated as such.

4. For informational purposes, Fresno Metropolitan Flood Control District's (FMFCD) Hewitt Creek No. 196 runs westerly and traverses the subject property, as shown on the attached FID exhibit map. FID recommends FMFCD be contacted for additional comment.



BOARD OF DIRECTORS President RYAN JACOBSEN Vice-President JERRY PRIETO, JR. CHRISTOPHER WOOLF
GEORGE PORTER GREGORY BEBERIAN General Manager BILL STRETCH

5. FID is concerned that the proposed development may negatively impact local groundwater supplies including those areas adjacent to or neighboring the proposed development area. The area was rural residential with minimal groundwater use supplemented by surface water from the District. Under current circumstances the project area is experiencing a modest but continuing groundwater overdraft. Should the proposed development result in a significant increase in dependence on groundwater, this deficit will increase. FID recommends the City of Clovis require the proposed development balance anticipated groundwater use with sufficient recharge of imported surface water in order to preclude increasing the area's existing groundwater overdraft problem.

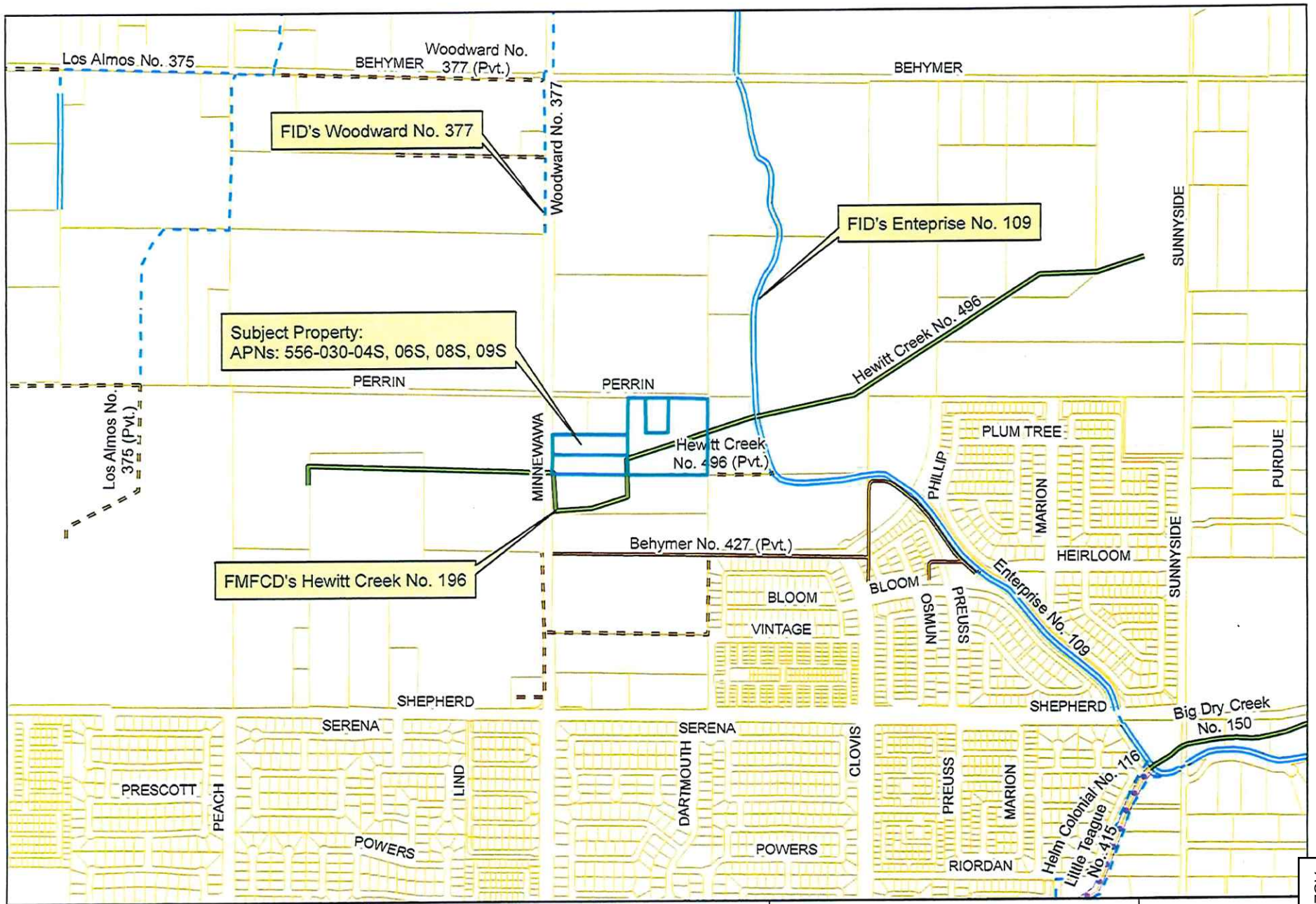
6. California enacted landmark legislation in 2014 known as the Sustainable Groundwater Management Act (SGMA). The act requires the formation of local groundwater sustainability agencies (GSAs) that must assess conditions in their local water basins and adopt locally-based management plans. FID and the City of Clovis are members of the North Kings Groundwater Sustainability Agency which will manage the groundwater basin within the FID service area. This area is completely reliant on groundwater pumping and SGMA will impact all users of groundwater and those who rely on it. The City of Clovis should consider the impacts of the development on the City's ability to comply with requirements of SGMA.

Thank you for submitting this for our review. We appreciate the opportunity to review and comment on the subject documents for the proposed project. If you have any questions, please feel free to contact Chris Lundeen at (559) 233-7161 extension 7410 or clundeen@fresnoirrigation.com.

Sincerely,

Laurence Kimura, P.E.
Chief Engineer

Attachment




FRESNO IRRIGATION DISTRICT

Legend

- FID Canal
- Private Canal
- Abandoned Canal
- FID Pipeline
- Private Pipeline
- Abandoned Pipeline
- Stream Group
- Other-Creek\River
- Other-Pipeline
- FID Boundary
- Railroad
- Streets & Hwys
- Parcel
- FMFCD Acquired Basins
- FMFCD Proposed Basins

This map was produced by the Fresno Irrigation District and is provided for reference and informational purposes only and is not intended to show map scale accuracy or all inclusive map features, nor for legal purposes. FID makes no statements regarding the accuracy of this map as the features shown are in their approximate location. Please contact the FID Engineering Dept. at (559) 233-7161 for further information on FID facilities.

Path: G:\Fidgis\20230216 FID Compact.mxd
Spatial Reference
Name: NAD 1983 StatePlane California IV FIPS 0404

0 500 1,000
Feet
1 inch = 1,038.97 feet

AGENDA ITEM NO. 17.

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

October 11, 2024

Marissa Jensen
City of Clovis
Planning and development Services
1033 Fifth Street
Clovis, CA 93612

**Project: Planning Application Request for PDP2024-003 and TM6467**

**District CEQA Reference No: 20241065**

Dear Ms. Jensen,

The San Joaquin Valley Air Pollution Control District (District) has reviewed the Planning Application Request (PA) from the City of Clovis (City). Per the PA, the project consists of 162 single-family residential lots (Project). The Project is located on the east side of N. Minnewawa between Perrin Ave and Shepherd Ave, in Clovis, CA.

The District offers the following comments at this time regarding the Project:

## 1) Project Related Emissions

At the federal level under the National Ambient Air Quality Standards (NAAQS), the District is designated as extreme nonattainment for the 8-hour ozone standards and serious nonattainment for the particulate matter less than 2.5 microns in size (PM2.5) standards. At the state level under California Ambient Air Quality Standards (CAAQS), the District is designated as nonattainment for the 8-hour ozone, PM10, and PM2.5 standards.

The District's initial review of the Project concludes that emissions resulting from construction and/or operation of the Project may exceed any of the following significance thresholds as identified in the District's Guidance for Assessing and Mitigating Air Quality Impacts: https://ww2.valleyair.org/media/g4nl3p0g/gamaqi.pdf. The District recommends that a more detailed preliminary review of the Project be conducted for the Project's construction and operational emissions.

Samir Sheikh
Executive Director/Air Pollution Control Officer

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### 1a) Construction Emissions

The District recommends, to reduce impacts from construction-related diesel exhaust emissions, the Project should utilize the cleanest available off-road construction equipment.

### 1b) Operational Emissions

Operational (ongoing) air emissions from mobile sources and stationary sources should be analyzed separately. For reference, the District's significance thresholds are identified in the District's Guidance for Assessing and Mitigating Air Quality Impacts: https://ww2.valleyair.org/media/g4nl3p0g/gamaqi.pdf.

*Recommended Mitigation Measure*: At a minimum, project related impacts on air quality should be reduced to levels below the District's significance thresholds through incorporation of design elements such as the use of cleaner Heavy Heavy-Duty (HHD) trucks and vehicles, measures that reduce Vehicle Miles Traveled (VMTs), and measures that increase energy efficiency. More information on transportation mitigation measures can be found at: https://ww2.valleyair.org/media/ob0pweru/clean-air-measures.pdf

### 1c) Recommended Model for Quantifying Air Emissions

Project-related criteria pollutant emissions from construction and operational sources should be identified and quantified. Emissions analysis should be performed using the California Emission Estimator Model (CalEEMod), which uses the most recent CARB-approved version of relevant emissions models and emission factors. CalEEMod is available to the public and can be downloaded from the CalEEMod website at: www.caleemod.com.

## 2) Health Risk Screening/Assessment

The City should evaluate the risk associated with the Project for sensitive receptors (residences, businesses, hospitals, day-care facilities, health care facilities, etc.) in the area and mitigate any potentially significant risk to help limit exposure of sensitive receptors to emissions.

To determine potential health impacts on surrounding receptors (residences, businesses, hospitals, day-care facilities, health care facilities, etc.) a Prioritization and/or a Health Risk Assessment (HRA) should be performed for the Project. These health risk determinations should quantify and characterize potential Toxic Air Contaminants (TACs) identified by the Office of Environmental Health Hazard Assessment/California Air Resources Board (OEHHA/CARB) that pose a present or potential hazard to human health.

Health risk analyses should include all potential air emissions from the project, which include emissions from construction of the project, including multi-year construction, as well as ongoing operational activities of the project. Note, two common sources of TACs can be attributed to diesel exhaust emitted from heavy-duty off-road earth moving equipment during construction, and from ongoing operation of heavy-duty on-road trucks.

Prioritization (Screening Health Risk Assessment):
A "Prioritization" is the recommended method for a conservative screening-level health risk assessment. The Prioritization should be performed using the California Air Pollution Control Officers Association's (CAPCOA) methodology. Please contact the District for assistance with performing a Prioritization analysis.

The District recommends that a more refined analysis, in the form of an HRA, be performed for any project resulting in a Prioritization score of 10 or greater. This is because the prioritization results are a conservative health risk representation, while the detailed HRA provides a more accurate health risk evaluation.

Health Risk Assessment:
Prior to performing an HRA, it is strongly recommended that land use agencies/ project proponents develop and submit for District review a health risk modeling protocol that outlines the sources and methodologies that will be used to perform the HRA.

A development project would be considered to have a potentially significant health risk if the HRA demonstrates that the health impacts would exceed the District's established risk thresholds, which can be found here: https://ww2.valleyair.org/permitting/ceqa/.

A project with a significant health risk would trigger all feasible mitigation measures. The District strongly recommends that development projects that result in a significant health risk not be approved by the land use agency.

The District is available to review HRA protocols and analyses. For HRA submittals please provide the following information electronically to the District for review:

- HRA (AERMOD) modeling files
- HARP2 files
- Summary of emissions source locations, emissions rates, and emission factor calculations and methodologies.

For assistance, please contact the District's Technical Services Department by:

- E-Mailing inquiries to: hramodeler@valleyair.org
- Calling (559) 230-5900

*Recommended Measure*: Development projects resulting in TAC emissions should be located an adequate distance from residential areas and other sensitive receptors to prevent the creation of a significant health risk in accordance to CARB's Air Quality and Land Use Handbook: A Community Health Perspective located at https://ww2.arb.ca.gov/our-work/programs/resource-center/strategy-development/land-use-resources.

## 3) Ambient Air Quality Analysis

An Ambient Air Quality Analysis (AAQA) uses air dispersion modeling to determine if emissions increases from a project will cause or contribute to a violation of State or National Ambient Air Quality Standards. The District recommends an AAQA be performed for the Project if emissions exceed 100 pounds per day of any pollutant.

An AAQA uses air dispersion modeling to determine if emission increase from a project will cause or contribute to a violation of State or National Ambien Air Quality Standards. An acceptable analysis would include emissions from both project-specific permitted and non-permitted equipment and activities. The District recommends consultation with District staff to determine the appropriate model and input data to use in the analysis.

Specific information for assessing significance, including screening tools and modeling guidance, is available online at the District's website: https://ww2.valleyair.org/permitting/ceqa/.

## 4) Voluntary Emission Reduction Agreement

Criteria pollutant emissions may result in emissions exceeding the District's significance thresholds, potentially resulting in a significant impact on air quality. When a project is expected to have a significant impact, the District recommends the environmental review also include a discussion on the feasibility of implementing a Voluntary Emission Reduction Agreement (VERA) for this Project.

A VERA is a mitigation measure by which the project proponent provides pound-for-pound mitigation of emissions increases through a process that develops, funds, and implements emission reduction projects, with the District serving a role of administrator of the emissions reduction projects and verifier of the successful mitigation effort. To implement a VERA, the project proponent and the District enter into a contractual agreement in which the project proponent agrees to mitigate project specific emissions by providing funds for the District's incentives programs.

The funds are disbursed by the District in the form of grants for projects that achieve emission reductions. Thus, project-related impacts on air quality can be mitigated. Types of emission reduction projects that have been funded in the past include electrification of stationary internal combustion engines (such as agricultural irrigation pumps), replacing old heavy-duty trucks with new, cleaner, more efficient heavy-duty trucks, and replacement of agricultural equipment with the latest generation technologies.

In implementing a VERA, the District verifies the actual emission reductions that have been achieved as a result of completed grant contracts, monitors the emission reduction projects, and ensures the enforceability of achieved reductions. After the project is mitigated, the District certifies to the Lead Agency that the mitigation is completed, providing the Lead Agency with an enforceable mitigation measure demonstrating that project-related emissions have been mitigated. To assist the Lead Agency and project proponent in ensuring that the environmental document is compliant with CEQA, the District recommends the environmental document includes an assessment of the feasibility of implementing a VERA.

**5) Vegetative Barriers and Urban Greening**

There are residential units located near the Project. The District suggests the City consider the feasibility of incorporating vegetative barriers and urban greening as a measure to further reduce air pollution exposure on sensitive receptors (e.g., residential units).

While various emission control techniques and programs exist to reduce air quality emissions from mobile and stationary sources, vegetative barriers have been shown to be an additional measure to potentially reduce a population's exposure to air pollution through the interception of airborne particles and the update of gaseous pollutants. Examples of vegetative barriers include, but are not limited to the following: trees, bushes, shrubs, or a mix of these. Generally, a higher and thicker vegetative barrier with full coverage will result in greater reductions in downwind pollutant concentrations. In the same manner, urban greening is also a way to help improve air quality and public health in addition to enhancing the overall beautification of a community with drought tolerant, low-maintenance greenery.

**6) Clean Lawn and Garden Equipment in the Community**

Since the Project consists of residential development, gas-powered residential lawn and garden equipment have the potential to result in an increase of NOx and PM2.5 emissions. Utilizing electric lawn care equipment can provide residents with immediate economic, environmental, and health benefits. The District recommends the Project proponent consider the District's Clean Green Yard Machines (CGYM) program which provides incentive funding for replacement of existing gas powered lawn and garden equipment. More information on the District CGYM program and

funding can be found at: https://ww2.valleyair.org/grants/clean-green-yard-machines-residential/

## 7) On-Site Solar Deployment

It is the policy of the State of California that renewable energy resources and zero-carbon resources supply 100% of retail sales of electricity to California end-use customers by December 31, 2045. While various emission control techniques and programs exist to reduce air quality emissions from mobile and stationary sources, the production of solar energy is contributing to improving air quality and public health. The District suggests that the City consider incorporating solar power systems as an emission reduction strategy for the Project.

## 8) District Rules and Regulations

The District issues permits for many types of air pollution sources, and regulates some activities that do not require permits. A project subject to District rules and regulations would reduce its impacts on air quality through compliance with the District's regulatory framework. In general, a regulation is a collection of individual rules, each of which deals with a specific topic. As an example, Regulation II (Permits) includes District Rule 2010 (Permits Required), Rule 2201 (New and Modified Stationary Source Review), Rule 2520 (Federally Mandated Operating Permits), and several other rules pertaining to District permitting requirements and processes.

The list of rules below is neither exhaustive nor exclusive. Current District rules can be found online at: https://ww2.valleyair.org/rules-and-planning/current-district-rules-and-regulations. To identify other District rules or regulations that apply to future projects, or to obtain information about District permit requirements, the project proponents are strongly encouraged to contact the District's Small Business Assistance (SBA) Office at (559) 230-5888.

### 8a) District Rules 2010 and 2201 - Air Quality Permitting for Stationary Sources

Stationary Source emissions include any building, structure, facility, or installation which emits or may emit any affected pollutant directly or as a fugitive emission. District Rule 2010 (Permits Required) requires operators of emission sources to obtain an Authority to Construct (ATC) and Permit to Operate (PTO) from the District. District Rule 2201 (New and Modified Stationary Source Review) requires that new and modified stationary sources of emissions mitigate their emissions using Best Available Control Technology (BACT).

This Project may be subject to District Rule 2010 (Permits Required) and Rule 2201 (New and Modified Stationary Source Review) and may require District permits. Prior to construction, the Project proponent should submit to the District an application for an ATC. For further information or assistance, the project proponent may contact the District's SBA Office at (559) 230-5888.

**8b) District Rule 9510 - Indirect Source Review (ISR)**

The Project is subject to District Rule 9510 because it will receive a project-level discretionary approval from a public agency and will equal or exceed 50 residential units.

The purpose of District Rule 9510 is to reduce the growth in both NOx and PM emissions associated with development and transportation projects from mobile and area sources; specifically, the emissions associated with the construction and subsequent operation of development projects. The ISR Rule requires developers to mitigate their NOx and PM emissions by incorporating clean air design elements into their projects. Should the proposed development project clean air design elements be insufficient to meet the required emission reductions, developers must pay a fee that ultimately funds incentive projects to achieve off-site emissions reductions.

Per Section 5.0 of the ISR Rule, an Air Impact Assessment (AIA) application is required to be submitted no later than applying for project-level approval from a public agency. As of the date of this letter, the District has not received an AIA application for this Project. Please inform the project proponent to immediately submit an AIA application to the District to comply with District Rule 9510 so that proper mitigation and clean air design under ISR can be incorporated into the Project's design. One AIA application should be submitted for the entire Project.

Information about how to comply with District Rule 9510 can be found online at: https://ww2.valleyair.org/permitting/indirect-source-review-rule-overview

The AIA application form can be found online at: https://ww2.valleyair.org/permitting/indirect-source-review-rule-overview/forms-and-applications/

District staff is available to provide assistance and can be reached by phone at (559) 230-5900 or by email at ISR@valleyair.org.

**8c) District Rule 4002 (National Emissions Standards for Hazardous Air Pollutants)**

In the event an existing building will be renovated, partially demolished or removed, the Project may be subject to District Rule 4002. This rule requires a thorough inspection for asbestos to be conducted before any regulated facility is demolished or renovated. Information on how to comply with District Rule 4002 can be found online at: https://ww2.valleyair.org/compliance/demolition-renovation/

**8d) District Rule 4601 (Architectural Coatings)**

The Project may be subject to District Rule 4601 since it is expected to utilize architectural coatings. Architectural coatings are paints, varnishes, sealers, or stains that are applied to structures, portable buildings, pavements or curbs. The purpose of this rule is to limit VOC emissions from architectural coatings. In addition, this rule specifies architectural coatings storage, cleanup and labeling requirements. Additional information on how to comply with District Rule 4601 requirements can be found online at: https://ww2.valleyair.org/media/tkgjeusd/rule-4601.pdf

**8e) District Regulation VIII (Fugitive PM10 Prohibitions)**

The project proponent may be required to submit a Construction Notification Form or submit and receive approval of a Dust Control Plan prior to commencing any earthmoving activities as described in Regulation VIII, specifically Rule 8021 – *Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities.*

Should the project result in at least 1-acre in size, the project proponent shall provide written notification to the District at least 48 hours prior to the project proponents intent to commence any earthmoving activities pursuant to District Rule 8021 (Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities). Also, should the project result in the disturbance of 5-acres or more, or will include moving, depositing, or relocating more than 2,500 cubic yards per day of bulk materials, the project proponent shall submit to the District a Dust Control Plan pursuant to District Rule 8021 (Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities). For additional information regarding the written notification or Dust Control Plan requirements, please contact District Compliance staff at (559) 230-5950.

The application for both the Construction Notification and Dust Control Plan can be found online at: https://ww2.valleyair.org/media/fm3jrbsq/dcp-form.docx

Information about District Regulation VIII can be found online at: https://ww2.valleyair.org/dustcontrol

**8f) District Rule 4901 - Wood Burning Fireplaces and Heaters**

The purpose of this rule is to limit emissions of carbon monoxide and particulate matter from wood burning fireplaces, wood burning heaters, and outdoor wood burning devices. This rule establishes limitations on the installation of new wood burning fireplaces and wood burning heaters. Specifically, at elevations below 3,000 feet in areas with natural gas service, no person shall install a wood burning fireplace, low mass fireplace, masonry heater, or wood burning heater.

Information about District Rule 4901 can be found online at: https://ww2.valleyair.org/compliance/residential-wood-smoke-reduction-program/

**8g) Other District Rules and Regulations**

The Project may also be subject to the following District rules: Rule 4102 (Nuisance) and Rule 4641 (Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations).

**9) District Comment Letter**

The District recommends that a copy of the District's comments be provided to the Project proponent.

If you have any questions or require further information, please contact Ryan Grossman by e-mail at Ryan.grossman@valleyair.org or by phone at (559) 230-6569.

Sincerely,

Tom Jordan
Director of Policy and Government Affairs



For: Mark Montelongo
Program Manager

Department of Toxic Substances Control

Yana Garcia
Secretary for
Environmental Protection

Katherine M. Butler, MPH, Director
8800 Cal Center Drive
Sacramento, California 95826-3200
dtsc.ca.gov

Gavin Newsom
Governor

**SENT VIA ELECTRONIC MAIL**

November 13, 2024

Marissa Jensen
Assistant Planner
City of Clovis
1033 Fifth Street
Clovis, CA 93612
marissaj@cityofclovis.com

RE: MITIGATED NEGATIVE DECLARATION FOR THE TM6467 AND PDP2024-003 DATED NOVEMBER 4, 2024, STATE CLEARINGHOUSE NUMBER 2024110086

Dear Marissa Jensen,

The Department of Toxic Substances Control (DTSC) reviewed the Mitigated Negative Declaration (MND) for the TM6467 and PDP2024-003 project (project). The proposed project site is currently zoned AE-20 (Exclusive Agricultural, 20-acre minimum parcel size) in the County of Fresno; however, the applicant proposes a rezone to the R-1-PRD Zone District (Single-Family Planned Residential Development) through a separate entitlement, R2024-005. The project site is made up of four parcels totaling approximately 14.57-acres and is designated for Medium / Medium High-Density Residential development in the City of Clovis General Plan. The project proposes 162 single-family residences with two pocket parks totaling 21,997 square feet, associated parking, landscaping, and utility and pedestrian infrastructure. DTSC recommends and requests consideration of the following comments:

1. When agricultural crops and/or land uses are proposed or rezoned for residential use, a number of contaminants of concern (COCs) can be present. The Lead Agency shall identify the amounts of Pesticides and Organochlorine

Pesticides (OCPs) historically used on the property. If present, OCPs requiring further analysis are dichloro-diphenyl-trichloroethane, toxaphene, and dieldrin. Additionally, any level of arsenic present would require further analysis and sampling and must meet HHRA NOTE NUMBER 3, DTSC-SLs approved thresholds. If they are not, remedial action must take place to mitigate them below those thresholds.

Additional COCs may be found in mixing/loading/storage areas, drainage ditches, farmhouses, or any other outbuildings and should be sampled and analyzed. If smudge pots had been routinely utilized, additional sampling for Polycyclic Aromatic Hydrocarbons and/or Total Petroleum Hydrocarbons may be required.

2. DTSC recommends that all imported soil and fill material should be tested to assess any contaminants of concern meet screening levels as outlined in DTSC's Preliminary Endangerment Assessment (PEA) Guidance Manual. Additionally, DTSC advises referencing the DTSC Information Advisory Clean Imported Fill Material Fact Sheet if importing fill is necessary. To minimize the possibility of introducing contaminated soil and fill material there should be documentation of the origins of the soil or fill material and, if applicable, sampling be conducted to ensure that the imported soil and fill material are suitable for the intended land use. The soil sampling should include analysis based on the source of the fill and knowledge of the prior land use. Additional information can be found by visiting DTSC's Human and Ecological Risk Office (HERO) webpage.
3. If buildings or other structures are to be demolished on any project sites included in the proposed project, surveys should be conducted for the presence of lead-based paints or products, mercury, asbestos containing materials, and polychlorinated biphenyl caulk. Removal, demolition, and disposal of any of the above-mentioned chemicals should be conducted in compliance with California environmental regulations and policies. In addition, sampling near current and/or former buildings should be conducted in

accordance with DTSC's Preliminary Endangerment Assessment (PEA) Guidance Manual

DTSC appreciates the opportunity to comment on the MND for the TM6467 and PDP2024-003 project. Thank you for your assistance in protecting California's people and environment from the harmful effects of toxic substances. If you have any questions or would like clarification on DTSC's comments, please respond to this letter or via email for additional guidance.

Sincerely,



Tamara Purvis
Associate Environmental Planner
HWMP - Permitting Division – CEQA Unit
Department of Toxic Substances Control
Tamara.Purvis@dtsc.ca.gov

cc: (via email)

Governor's Office of Land Use and Climate Innovation
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# Bonadelle Neighborhoods TM6467 and PDP2024-003

Initial Study and Mitigated Negative Declaration

**October 2024**

**PREPARED BY:**

Marissa Jensen, MA
Assistant Planner
Planning & Development Services
(559) 324-2338
marissaj@clovisca.gov

## INITIAL STUDY

This Initial Study was prepared pursuant to the California Environmental Quality Act (CEQA) Public Resources Code Sections 21000 *et seq*., CEQA Guidelines Title 14, Section 15000 et seq. of the California Code of Regulations.

| | |
|---|---|
| **PROJECT TITLE:** | TM6467 and PDP2024-003 |
| **LEAD AGENCY NAME AND ADDRESS:** | City of Clovis<br>Planning & Development Services<br>1033 Fifth Street<br>Clovis, CA 93612 |
| **CONTACT PERSON AND PHONE NUMBER:** | Marissa Jensen, Assistant Planner<br>(559) 324-2338<br>marissaj@clovisca.gov |
| **PROJECT LOCATION:** | South of E. Perrin Avenue, east of N. Minnewawa Avenue and west of the N. Clovis Avenue Alignment. |
| **PROJECT SPONSOR'S NAME AND ADDRESS:** | Bonadelle Neighborhoods<br>7030 Fruit Avenue #101<br>Fresno, CA 93711 |
| **LAND USE DESIGNATION:** | Existing – M (Medium) & MH (Medium High) |
| **ZONING DESIGNATION:** | Existing – AE-20 (Fresno County, Exclusive Agricultural)<br>Proposed – R-1-PRD (Single-Family Planned Residential Development) (through separate entitlement, R2024-005) |
| **PROJECT DESCRIPTION** | See page 7 of this Initial Study |
| **SURROUNDING LAND USES AND SETTING:** | See page 6 and 7 of this Initial Study |
| **REQUIRED APPROVALS:** | See page 9 of this Initial Study |
| **HAVE CALIFORNIA NATIVE AMERICAN TRIBES REQUESTED CONSULTATION? IF SO, HAS CONSULTATION BEGUN?** | Yes, consultation meeting held September 30, 2024. |

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## A. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, as indicated by the checklist and corresponding discussion in this Initial Study.

| | | |
|---|---|---|
| ☐ Aesthetics | ☐ Agriculture & Forestry Resources | ☐ Air Quality |
| ☒ Biological Resources | ☒ Cultural Resources | ☐ Energy |
| ☒ Geology & Soils | ☒ Greenhouse Gas Emissions | ☐ Hazards & Hazardous Materials |
| ☐ Hydrology & Water Quality | ☐ Land Use/Planning | ☐ Mineral Resources |
| ☒ Noise | ☐ Population/Housing | ☐ Public Services |
| ☐ Recreation | ☒ Transportation | ☒ Tribal Cultural Resources |
| ☐ Utilities & Service Systems | ☐ Wildfire | ☐ Mandatory Findings of Significance |

**Determination**

On the basis of this initial evaluation:

☐ I find that the proposed Project COULD NOT have a significant effect on the environment and a NEGATIVE DECLARATION will be prepared.

☒ I find that, although the proposed Project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponents. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed Project MAY have a significant effect on the environmental, and an ENVIRONMENTAL IMPACT REPORT (EIR) will be prepared.

☐ I find that the proposed Project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environmental, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An EIR is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed Project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately analyzed in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed Project, nothing further is required.

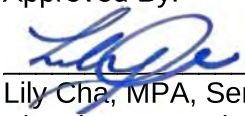
Prepared By:



Marissa Jensen, MA, Assistant Planner
Planning & Development Services
City of Clovis

11/1/2024
Date

Approved By:



Lily Cha, MPA, Senior Planner
Planning & Development Services
City of Clovis

11/1/2024
Date

## B. PROJECT OVERVIEW

John A. Bonadelle of Bonadelle Homes (applicant) proposes to subdivide the subject property to facilitate the development of a 162-lot single-family subdivision, Tract Map 6467 (TM6467). Currently, the property is located within Fresno County's jurisdiction and is zoned AE-20 (Exclusive Agricultural, 20-acre minimum parcel size). The property will be annexed into the City Limits and Prezoned to the R-1-PRD (Single-Family Planned Residential Development) zone district, through separate entitlements, Reorganization 310 (RO310) and Rezone (Prezone) 2024-005 (R2024-005). TM6467 is inclusive of a Planned Development Permit (PDP2024-003) for enhanced development. The project will include site improvements (i.e., landscaping, parking, external sidewalks, and utility infrastructure). The project shall be referred to throughout the document as "proposed Project" and/or "Project." Details regarding the Project and operations are described more throughout the Initial Study, beginning under Section E.

## C. PROJECT LOCATION

As shown in Figure 1 below, the project boundary consists of ±14.57 acres and is located south of E. Perrin Avenue, east of N. Minnewawa Avenue and west of the N. Clovis Avenue Alignment in the County of Fresno, California. The Project is situated adjacent to primarily vacant and agricultural properties designated for future residential at varying densities, a future park, and existing single-family residences to the southeast. The Project will occupy the entire parcels with Accessor's Parcel Numbers (APNs) 556-030-04, 06, 08, and 09.

The Project is within the City's Heritage Grove planned growth area. Heritage Grove encompasses ±2,560 acres of land bounded by Willow Avenue to the west, Sunnyside Avenue to the east, Copper Avenue to the north and the Shepherd Avenue to the south. This area has been examined programmatically in the City's current General Plan EIR. This document evaluates potential environmental impacts in detail.

## D. EXISTING SETTING

This section describes the existing conditions, surrounding conditions, as well as the General Plan land use and zoning designations.

### 1. EXISTING CONDITIONS

As shown in Figure 1 below, the Project is located on a primarily undeveloped site with three single-family residences, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities and a future park.

### 2. SURROUNDING CONDITIONS

As referenced below in Table 1, and shown on Figure 1, the Project site is surrounded primarily by current agricultural uses, vacant properties, and rural residential homes. The Project is situated adjacent to agricultural lands and vacant properties designated for future medium to high density residential housing, a future park, and existing single-family residences ±700 feet to the southeast. The areas adjacent to the project site include the following uses.

**Table 1: Surrounding Land Uses**

| | Land Use Designation | Existing Zoning* | Existing Land Use |
|---|---|---|---|
| **North** | Medium Density Residential | AE-20 | Rural Residential Properties, Orchards |
| **East** | Medium Density Residential | AE-20 | Vacant |
| **South** | Medium Density Residential | AE-20 | Vacant |
| **West** | Medium High Density Residential + Park | AE-20 | Rural Residential Property, Orchards |
| *AE-20 (Exclusive Agricultural, 20-acre parcel minimum) | | | |

### 3. LAND USE DESIGNATION

As shown in Figure 2, the Project site has an existing General Plan Land Use designation of Medium and Medium-High Density Residential. Medium Density Residential allows for single-family residential development at a density of 4.1-7.0 dwelling units per acre, whereas Medium High Density Residential designation allows for single-family residential development at a density of 7.1-20.0 dwelling units per acre. The Project proposes to blend the Medium and Medium High Densities to obtain the maximum units allowed based on the acreage. The resulting project density is 11.6 dwelling units per acre.

### 4. ZONING DESIGNATION

As shown on Figure 3, the Project site is currently zoned AE-20 (Exclusive Agricultural, 20-acre minimum parcel size) in the County of Fresno, however, proposes a prezone to the R-1-PRD Zone District (Single-Family Planned Residential Development) through a separate entitlement, R2024-005. The R-1-PRD Zone District is consistent with the existing Medium and Medium High Density land use designation.

## E. PROJECT DESCRIPTION

The project site is made up of four (4) parcels totaling ±14.57-acres and is designated for Medium and Medium High-Density Residential development in the City of Clovis General Plan. The applicant is proposing the development of a planned single-family residential development with unique development standards. The Project proposes 162 single-family residences with two (2) pocket parks totaling 21,997 square feet, associated parking, landscaping, and utility and pedestrian infrastructure. This section describes the components of the proposed Project in more detail, including site preparations, proposed structures, and on- and off- site improvements.

### 1. PROJECT ENTITLEMENTS

The Project includes multiple planning entitlements, including a vesting tentative tract map, and planned development permit. The tentative tract map is required to subdivide the property in accordance with City standards, the planned development permit is to evaluate the enhanced development of the including features such as architecture, landscaping, parking and additional amenities, and the residential site plan review is required to memorialize the design and layout of the homes.

### 2. PROJECT CONSTRUCTION AND PHASING

The Project is anticipated to begin construction early 2025 with full buildout by winter of 2028. This schedule is an estimation only and is contingent upon entitlements, and the market, among other factors.

### 3. SITE PREPARATION

Site preparation would include the demolition of the existing three (3) residences and accessory structures. Typical grading activities would occur to ensure an adequately graded site for drainage purposes. Part of the preparation would include the removal of any other vegetation and trees necessary to accommodate the Project. Other site preparation activities would include minor excavation for the installation of utility infrastructure, for conveyance of water, sewer, stormwater, and irrigation.

### 4. PROJECT COMPONENTS

This section describes the overall components of the Project, such as the proposed buildings, landscape, vehicle and pedestrian circulation, and utilities.

**DEMOLITION**

The existing three (3) residences, accessory structures, and landscaping will be demolished to accommodate the Project.

**SITE LAYOUT AND CIRCULATION**

The Project is proposing 162 lots, ranging from ±2,219 square feet to ±2,928 square feet, with an average of ±2,364 square feet, and two (2) pocket parks totaling ±21,997 square feet. The project is bound by E. Perrin Avenue to the north, N. Minnewawa Avenue to the west, and the N. Clovis alignment to the east. The applicant will be required to install N. Clovis Avenue and improve E. Perrin and N. Minnewawa Avenues to City standards. Along with improvements to the surrounding streets, the applicant is also proposing a network of internal private streets. The Project would be accessed via two (2) ingress/egress access points, one (1) from N. Minnewawa Avenue and one (1) from E. Perrin Avenue. The installation of pedestrian paths of travel from the Minnewawa, Perrin and Clovis frontages would be required as part of the Project. Per the Heritage Grove Master Plan, a community corner paseo / gateway feature is required at the corner of Clovis and Perrin Avenues.

**PARKING**

The CMC requires that residential planned unit developments provide a minimum of two (2) covered spaces plus one (1) covered or uncovered guest space for each dwelling unit; therefore, the Project shall provide a minimum of 324 covered spaces and 162 covered of uncovered guest spaces. The Project is proposing 104 of the 162 lots to provide two car garages, the remaining 58 lots provide a one-car garage. Each garage would be required to have an interior dimension of 20 feet by 20 feet for two car garages and 10 feet by 20 feet for single-car garages. In addition to garages, the applicant is proposing an additional 78 parking stalls around the two (2) proposed parks and other locations throughout the site to accommodate a designated second space for the 58 units that propose a one-car garage. The remaining 142 guest spaces will be accommodated through on-street parking. The Planned Development Permit may adjust or modify, where necessary and justifiable, all applicable development standards. The proposed parking deviation will be reviewed thoroughly as part of the Residential Site Plan Review (RSPR) process for compliance.

**LANDSCAPE**

The Project would include landscape throughout the site. Landscaped areas would generally be located along the frontage of each structure where a variety of ornamental shrubs, plants, and trees would be planted, as well as landscape in areas throughout the parking lots, consistent with the CMC. Landscape plans are typically provided during the City's RSPR process at which time the proposed landscape would be reviewed for compliance with the City's water efficient landscape regulations and guidelines. As an amenity to the project, the applicant is providing two pocket parks (see Figure 5 for the conceptual designs).

**UTILITIES**

Utilities for the site would consist of water, sewer, electric, cable, gas, and stormwater infrastructure. Minor trenching and digging activities would be required for the installation of necessary pipelines typical of development. All utility plans would be required to be reviewed and approved by the appropriate agency, and/or department to ensure that installation occurs to pertinent codes and regulations. Other infrastructure would include new fire hydrants as required by the City of Clovis Fire Department.

Utilities are provided by and managed from a combination of agencies, including the Fresno Irrigation District (FID), which provides the City's water supply which is then supplied to customers by the City of Clovis, Fresno Metropolitan Flood Control District (FMFCD) which has responsibility for storm water management, and the City's public utilities department which provides for solid waste collection, and sewer collection services. Pacific Gas & Electric (PG&E) provides electricity and natural gas within the City of Clovis.

## F. REQUIRED PROJECT APPROVALS

The City of Clovis requires the following review, permits, and/or approvals for the proposed Project; however, other approvals not listed below may be required as identified throughout the entitlement process:

- Tentative Tract Map
- Planned Development Permit
- Residential Site Plan Review
- Grading Permit
- Building Permit
- San Joaquin Air Pollution Control District
- Fresno Metropolitan Flood Control District

## G. TECHNICAL STUDIES

The analysis of the Project throughout this Initial Study relied in part on the technical studies listed below prepared for the Project, as well as other sources, including, but not limited to, the 2014 Clovis General Plan EIR, departmental staff, California Department of Conservation, and the California Department of Toxic Control Substances.

- **Appendix A:** Air Quality and Greenhouse Gas Emissions Technical Memo dated December 27, 2023
- **Appendix B:** Biological Resources Evaluation dated November 22, 2023
- **Appendix C:** Cultural Resource Assessment dated December 15, 2023
- **Appendix D:** Traffic Impact Analysis Report dated April 17, 2024
- **Appendix E:** Vehicle Miles Traveled Analysis dated April 19, 2024

**Figure 1: Project Location and Existing Conditions**



**Figure 2: General Plan Land Use Designations**



**Figure 3: Current Zoning**

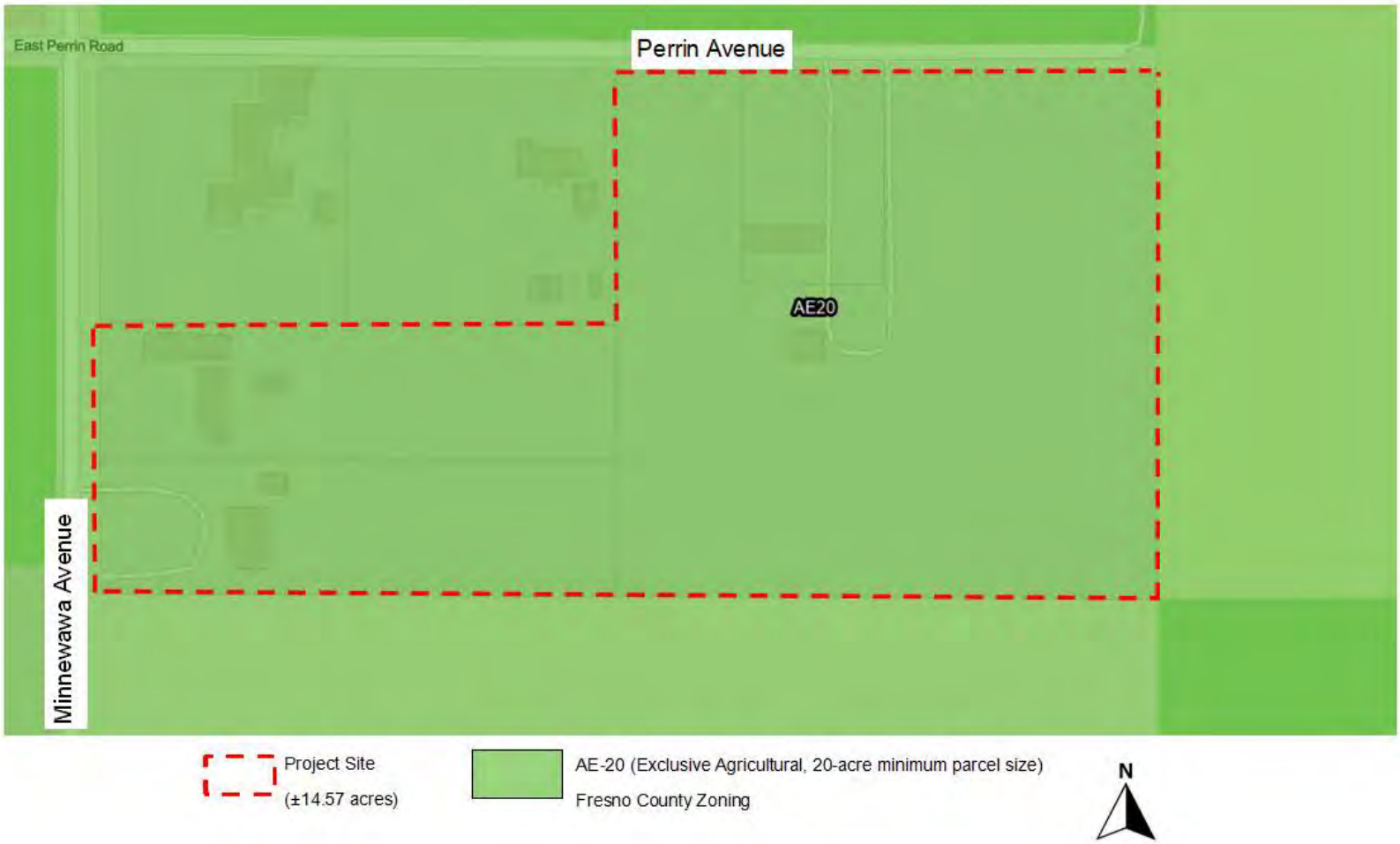


**Figure 4: Conceptual Tract Map**

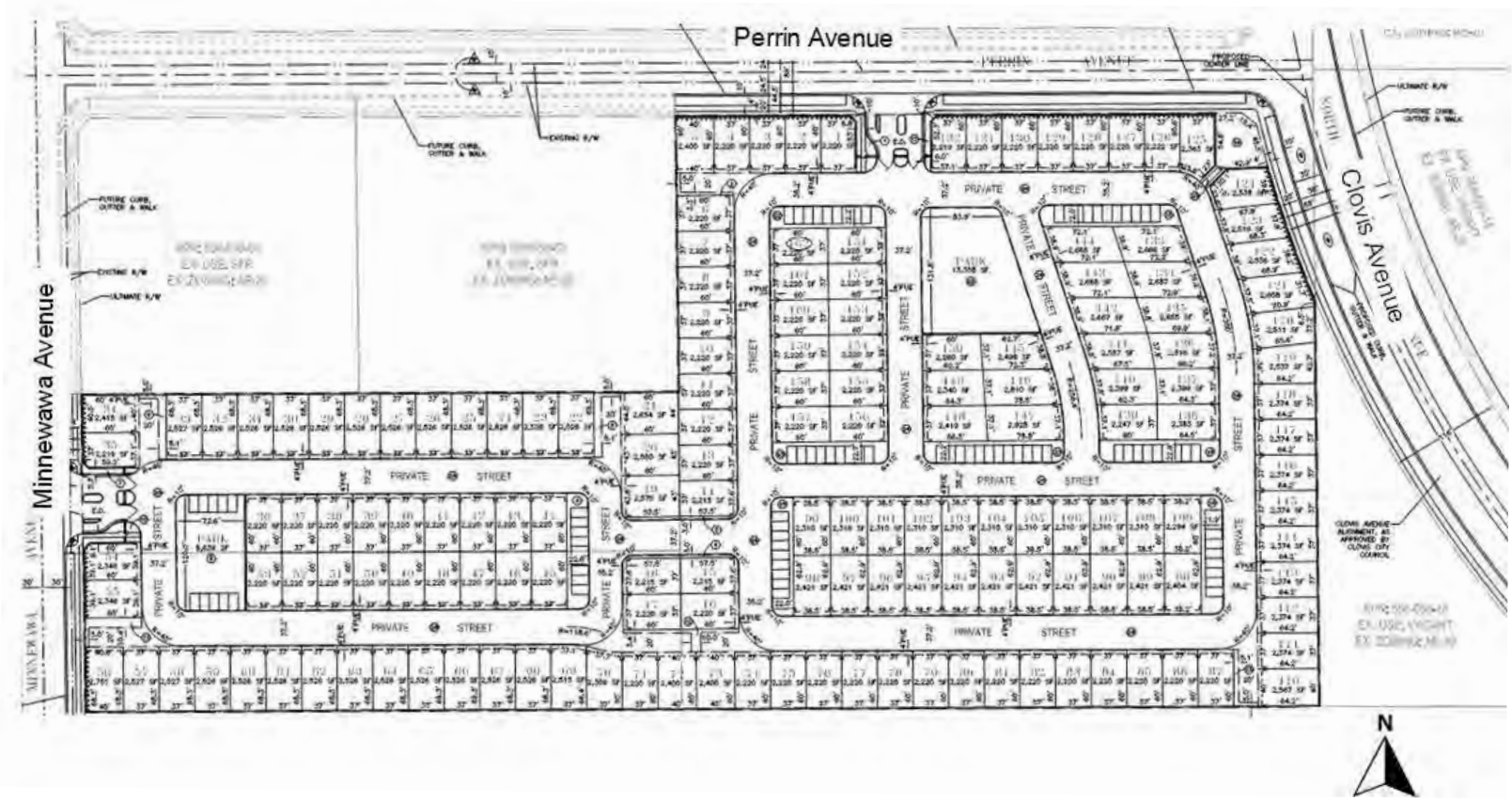


**Figure 5: Conceptual Park Designs**

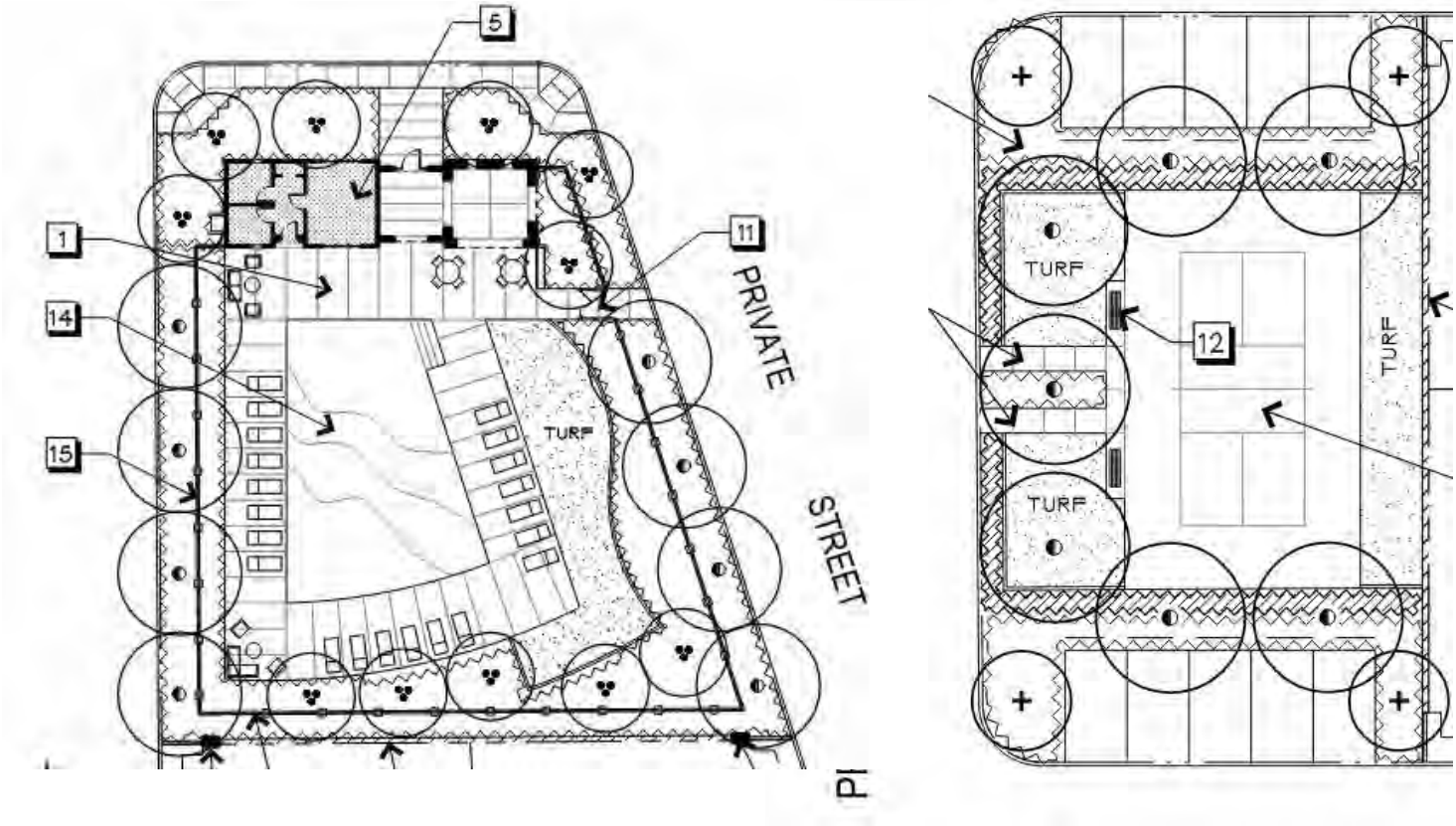


**Figure 6: Conceptual Elevations**



## H. ENVIRONMENTAL CHECKLIST

This section provides an evaluation of the potential environmental impacts of the proposed project and are based on CEQA Guidelines Appendix G. For each issue area, one of four conclusions is made:

- **No Impact**: No project-related impact to the environment would occur with project development.
- **Less Than Significant Impact:** The proposed project would not result in a substantial and adverse change in the environment. This impact level does not require mitigation measures.
- **Less Than Significant with Mitigation Incorporated**: The proposed project would result in an environmental impact or effect that is potentially significant, but the incorporation of mitigation measure(s) would reduce the project-related impact to a less than significant level.
- **Potentially Significant Impact**: The proposed project would result in an environmental impact or effect that is potentially significant, and no mitigation can be identified that would reduce the impact to a less than significant level**.**

### 1. AESTHETICS

| Except as provided in Public Resources Code Section 21099, would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Have a substantial effect on a scenic vista? | | | | X |
| b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway? | | | | X |
| c. Substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality? | | | X | |
| d. Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area? | | | X | |

**ENVIRONMENTAL SETTING**

The City of Clovis is located within the San Joaquin Valley. Thus, much of the City and its surrounding areas are predominately flat. As a result, on clear days, the Sierra Nevada Mountains are visible to the east depending on your location. Aside from Sierra Nevada, there are no officially designated focal points or viewsheds within the City. However, Policy 2.3, Visual Resources, of the Open Space Element of the 2014 Clovis General Plan, requires maintaining public views of open spaces, parks, and natural features and to preserve Clovis' viewshed of the surrounding foothills.

As mentioned above in the Project Description, the Project consists of ±14.57 acres and is located south of E. Perrin Avenue, east of N. Minnewawa Avenue and west of the N. Clovis Avenue Alignment in the County of Fresno, California. The Project is situated adjacent to primarily vacant and agricultural properties designated

for future residential at varying densities, a future park, and existing single-family residences to the southeast. In general, the Project site will be in the fringes of Clovis following annexation.

**DISCUSSION**

a) *Would the project have a substantial effect on a scenic vista?*

**No Impact.** As mentioned above, there are no officially designated scenic vistas or focal points in the City of Clovis. While the Sierra Nevada Mountains can be viewed on clear days the Project would allow structures to be constructed at a maximum height of 35 feet. The units will be constructed at a typical maximum height for standard single family residential zone districts and consistent with nearby subdivision. Additionally, there are no officially designated scenic vistas in the area, therefore **no impact** would occur with regards to the project having a substantial effect on a scenic vista. As a result, no mitigation measures are required.

b) *Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway?*

**No Impact.** As stated in the 2014 Clovis General Plan EIR, there are no Caltrans-designated scenic highways within the City of Clovis.[1] Further, there are no existing historical structures or rock outcroppings located on or within the immediate vicinity of the site, therefore, the Project would result in **no impact** with regards to substantially damaging scenic resources within a State scenic highway.

c) *Would the project substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?*

**Less-Than-Significant Impact.** As mentioned previously, the site is surrounded by primarily vacant and agricultural properties designated for future residential development at varying densities and a future park. The Project is located within the Heritage Grove planned growth area. Although the project is proposing to convert the subject property to residential uses, this conversion is pursuant to the 2014 General Plan. Upon completion, the project will not be consistent with the existing rural residential properties and orchards that currently exist in the surrounding area; however it will be consistent with future single-family development at Medium and Medium High Densities, per the General Plan designations. Additionally, the property immediately to the south is in the entitlement process for single-family residential development.

Further, the Project would undergo the RSPR process which would ensure that the overall design and character is consistent and/or complements the surrounding areas. The RSPR process will ensure the Project complies with relevant design policies, such as in the Heritage Grove Master Plan, the CMC, and the General Plan. During the review, the height, color and materials are reviewed for consistency with these plans and guidelines. Consequently, a **less-than-significant** impact would occur with regards to substantially degrading the existing visual character of the site and its surroundings, and no mitigation measures are required.

d) *Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?*

**Less-Than-Significant Impact.** The Project consists of 162 single-family homes. As a result of the existing site being primarily vacant with only three (3) residences and accessory, the Project would result in an

1 2014 Clovis General Plan EIR, June 2014, Page 5.1-1.

increase of light and glare sources. Light and glare from the Project would be typical of residential development, including but not limited to, sources such as exterior lighting for safety, light, and glare from vehicles or from light reflecting off surfaces such as windshields. Other sources of light would be the interior lighting of the units at night. These sources of light and glare are not typically associated with causing significant effects on the environment. Further, the site is surrounded by agricultural uses planned for single-family residences that will eventually result in similar sources and intensities of light and glare. Sources of future light and glare are comprised of streetlights, and light and glare from vehicles going to and from home.

Although the Project would introduce new sources of light and glare, the RSPR process would ensure that the design and placement of lighting is appropriate to minimize potential light and glare impacts to surrounding properties. Further, the Project would be required to comply with Section 9.22.050, Exterior Light and Glare, of the CMC, which requires light sources to be shielded and that lighting does not spillover to adjacent properties.

Overall, through the City's design review process and compliance with Section 9.22.050 of the CMC, the Project would result in a **less-than-significant impact** with regard to lighting adversely affecting day or nighttime views in the area. No mitigation measures are required.

## 2. AGRICULTURE AND FORESTRY RESOURCES

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use. | | | X | |
| b. Conflict with existing zoning for agricultural use, or a Williamson Act contract? | | | X | |
| c. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220 (g)) or timberland (as defined in Public Resources Code section 4526)? | | | | X |
| d. Result in the loss of forest land or conversion of forest land to non-forest use? | | | | X |
| e. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use? | | | | X |

**ENVIRONMENTAL SETTING**

The Project consists of ±14.57 acres and is located south of E. Perrin Avenue, east of N. Minnewawa Avenue and west of the N. Clovis Avenue Alignment in the County of Fresno, California. The Project is located on a

primarily undeveloped site with three single-family residences, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities.

**DISCUSSION**

a) *Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?*

**Less Than Significant Impact.** According to the California Important Farmland finder interactive map from the California Department of Conservation,[2] the Project site is considered Farmland of Local Importance (2020 data), which is defined by the Department of Conservation as farmable lands within Fresno County that do not meet the definitions of Prime, Statewide, or Unique farmlands. Generally, Farmland of Local Importance is or has been used for irrigated pasture, dryland farming, livestock, dairy, and grazing land.

The Project site does not appear to have previously been cultivated, other than possible dry farming, nor is it zoned or designated for farming-related activities under the 2014 Clovis General Plan. Although the Project site is considered Farmland of Local Importance it is not considered Prime, Unique, or Farmland of Statewide Importance; therefore, **less-than-significant impact** would occur, and no mitigation measures are required.

b) *Would the project conflict with existing zoning for agricultural use, or a Williamson Act Contract?*

**Less Than Significant Impact.** As shown in Figure 5.2-2 of the Agricultural Resources Chapter of the 2014 Clovis General Plan EIR, the Project site is not under a Williamson Act Contract. Further, the site is not currently zoned or designated for agricultural use. However, the parcel directly east of the Project site (APN: 556-030-17S) is currently in the non-renewal process under a Williamson Act Contract. As the project will provide improvements to the N. Clovis Avenue alignment, a portion of the adjacent parcel will be dedicated to the City for right of way. Although the parcel is currently under a Williamson Act Contract, the non-renewal process will need to be completed, and the parcel removed from Contract before any right of way is dedicated for the Clovis Avenue improvements. As a result, the Project would have a **less-than-significant impact** with regards to conflicting with existing zoning for agricultural use or a Williamson Act Contract.

c) *Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220 (g)) or timberland (as defined in Public Resources Code section 4526)?*

**No Impact.** The Project site does not contain forest land. Further, the site is not zoned for forestry or other forestry related uses. As a result, **no impact** would occur with regards to conflicts with existing zoning for, or cause rezoning of, forest land.

d) *Would the project result in the loss of forest land or conversion of forest land to non-forest use?*

**No Impact.** See discussion under Section 2c.

2 Farmland Mapping, California Department of Conservation, Interactive mapping tool (https://maps.conservation.ca.gov/DLRP/CIFF/).

e) *Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?*

**No Impact.** See discussion under Section 2a.

### 3. AIR QUALITY

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Conflict with or obstruct implementation of the applicable air quality plan? | | | X | |
| b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard? | | | X | |
| c. Expose sensitive receptors to substantial pollutant concentrations? | | X | | |
| d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people? | | | X | |

**ENVIRONMENTAL SETTING**

An Air Quality and Greenhouse Gas Technical Memorandum (AQ/GHG Memo) was prepared by Johnson, Johnson, and Miller Air Quality Consulting Services in December of 2023 (see Appendix A). Information in this AQ/GHG Memo is used for the analysis included in both the Air Quality and Greenhouse Gas Emissions section of this Initial Study.

***San Joaquin Valley Air Basin***

The City of Clovis (City) is in the central portion of the San Joaquin Valley Air Basin (SJVAB). SJVAB consists of eight counties: Fresno, Kern (western and central), Kings, Tulare, Madera, Merced, San Joaquin, and Stanislaus. The SJVAB is approximately 25,000 square miles. It is bordered by the Sierra Nevada in the east, the Coast Ranges in the west, and the Tehachapi mountains in the south. The valley is topographically flat with a slight downward gradient to the northwest. The valley opens to the sea at the Carquinez Straits where the San Joaquin-Sacramento Delta empties into San Francisco Bay.

***Topography***

The topography of a region is important for air quality because mountains can block airflow that would help disperse pollutants and can channel air from upwind areas that transports pollutants to downwind areas. The San Joaquin Valley Air Pollution Control District (SJVAPCD) covers the entirety of the SJVAB. The SJVAB is generally shaped like a bowl. It is open in the north and is surrounded by mountain ranges on all other sides. The Sierra Nevada mountains are along the eastern boundary (8,000 to 14,000 feet in elevation), the Coast Ranges are along the western boundary (3,000 feet in elevation), and the Tehachapi Mountains are along the southern boundary (6,000 to 8,000 feet in elevation).

### *Climate*

The SJVAB is in a Mediterranean climate zone and is influenced by a subtropical high-pressure cell most of the year. Mediterranean climates are characterized by sparse rainfall, which occurs mainly in winter. Summers are hot and dry. Summertime maximum temperatures often exceed 100°F in the valley.

The subtropical high-pressure cell is strongest during spring, summer, and fall and produces subsiding air, which can result in temperature inversions in the valley. A temperature inversion can act like a lid, inhibiting vertical mixing of the air mass at the surface.

Any emissions of pollutants can be trapped below the inversion. Most of the surrounding mountains are above the normal height of summer inversions (1,500–3,000 feet).

Winter-time high pressure events can often last many weeks, with surface temperatures often lowering into the 30°F. During these events, fog can be present, and inversions are extremely strong. These wintertime inversions can inhibit vertical mixing of pollutants to a few hundred feet.

### *Ambient Air Quality Standards*

The Clean Air Act (CAA) was passed in 1963 by the US Congress and has been amended several times. The 1970 CAA amendments strengthened previous legislation and laid the foundation for the regulatory scheme of the 1970s and 1980s. In 1977, Congress again added several provisions, including nonattainment requirements for areas not meeting National Air Quality Standards (AAQS) and the Prevention of Significant Deterioration program. The 1990 amendments represent the latest in a series of federal efforts to regulate the protection of air quality in the United States. The CAA allows states to adopt more stringent standards or to include other pollution species. The California Clean Air Act, signed into law in 1988, requires all areas of the state to achieve and maintain the California AAQS by the earliest practical date. The California AAQS tend to be more restrictive than the National AAQS, based on even greater health and welfare concerns.

These National and California AAQS are the levels of air quality considered to provide a margin of safety in the protection of the public health and welfare. They are designed to protect “sensitive receptors,” those most susceptible to further respiratory distress, such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and persons engaged in strenuous work or exercise. Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed.

Both California and the federal government have established health based AAQS for six air pollutants. As shown in Table 3, Ambient Air Quality Standards for Criteria Pollutants, these pollutants are carbon monoxide (CO), ozone ($O_3$), nitrogen dioxide ($NO_2$), sulfur dioxide ($SO_2$), lead (Pb), and suspended particulate matter ($PM_{2.5}$ and $PM_{10}$). In addition, the state has set standards for sulfates and hydrogen sulfide. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety.

In addition to the criteria pollutants, toxic air contaminants (TACs) are another group of pollutants of concern. TACs are injurious in small quantities and are regulated despite the absence of criteria documents. The identification, regulation and monitoring of TACs is relatively recent compared to that for criteria pollutants. Unlike criteria pollutants, TACs are regulated based on risk rather than specification of safe levels of contamination.

### *Attainment Status*

The air quality management plans prepared by SJVAPCD provide the framework for SJVAB to achieve attainment of the state and federal AAQS through the State Implementation Plan. Areas are classified as attainment or nonattainment areas for pollutants, depending on whether they meet the ambient air quality standards. Nonattainment areas are imposed with additional restrictions as required by the United States

Environmental Protection Agency. There are different classifications for attainment and the severity classifications for ozone nonattainment range in magnitude from marginal, moderate, and serious to severe and extreme. These classifications are used as a foundation to create air quality management strategies to improve air quality and comply with the National AAQS.

**Table 2: Air Quality Attainment Status for Fresno County**

| Pollutant | State | Federal |
|---|---|---|
| Ozone (1-hour) | Sever/Nonattainment | Not Applicable |
| Ozone (8-hour) | Nonattainment | Extreme Nonattainment |
| $PM_{10}$ | Nonattainment | Attainment (Maintenance) |
| $PM_{2.5}$ | Nonattainment | Nonattainment |
| Carbon Monoxide | Attainment | Attainment (Maintenance) |
| Nitrogen Dioxide | Attainment | Unclassified/Attainment |
| Lead | Attainment | Unclassified/Attainment |
| Sulfur Dioxide | Attainment | Unclassified |
| Sulfates | Attainment | No Federal Regulation |
| Hydrogen Sulfide | Unclassified | No Federal Regulation |

**DISCUSSION**

a) *Would the project conflict with or obstruct implementation of the applicable air quality plan?*

**Less-Than-Significant Impact.** The AQ/GHG Report[3] prepared by Johnson, Johnson, and Miller Air Quality Consulting Services proposes the following criteria for determining project consistency with the current Air Quality Plan (AQP):

1. Will the project result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the AQPs? This measure is determined by comparison to the regional thresholds identified by the District for Regional Air Pollutants.

2. Will the project comply with applicable control measures in the AQPs? The primary control measures applicable to development projects include Regulation VIII—Fugitive PM10 Prohibitions and Rule 9510 Indirect Source Review.

As shown in Tables 6 and 7 of the AQ/GHG Report, the project's construction and operational regional emissions would not exceed SJVAPCD's regional criteria pollutant emissions quantitative thresholds. Therefore, the proposed project would not be considered in conflict with or obstruct implementation of the applicable air quality plan based on this criterion. SJVAPCD's AQPs contain a number of control measures, which are enforceable requirements through the adoption of rules and regulations. The proposed project's will be subject to SJVAPCD Rule 9510, Regulation VIII and would implement dust control measures during the construction period. Additionally, components of the project may be required to obtain permits and abide by associated regulation set forth by Rule 2201. As described above, the proposed project's construction and operational regional emissions would not exceed SJVAPCD's regional criteria pollutant emissions quantitative thresholds. Furthermore, the proposed project would comply with all applicable SJVAPCD rules and regulations. Accordingly, the proposed project would not conflict with or obstruct implementation of the

3 Air Quality and Greenhouse Gas Technical Memorandum, prepared by Johnson, Johnson, and Miller Air Quality Consulting Services in December of 2023.

applicable air quality plans, and, therefore, this impact would be **less-than-significant** with no mitigation measures required.

b) *Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?*

**Less-Than-Significant Impact.** Per the AQ/GHG Report[4], the primary pollutants of concern during project construction and operation are ROG, NOX, $PM_{2.5}$ and $PM_{10.}$ The project does not contain sources that would produce substantial quantities of $SO_2$ emissions during construction and operation. Modeling conducted for the project demonstrates that $SO_2$ emissions are well below the SJVAPCD GAMAQI thresholds, as shown in the modeling results contained in Attachment A, of the Report. During construction, fugitive dust would be generated from earth-moving activities. Exhaust emissions would also be generated from off-road construction equipment and construction-related vehicle trips. Table 6 provides the construction emissions estimate for the proposed project. As shown in Table 6, estimated emissions from construction of project are below the SJVAPCD significance thresholds. Therefore, the regional construction emissions would be less-than-significant with no additional mitigation needed. In addition, Table 7 of the Report, discussed that the proposed project would not result in net operational-related air pollutants or precursors that would exceed the applicable thresholds of significance. Therefore, project operations would not be considered to have the potential to generate a significant quantity of air pollutants; long-term operational impacts associated with the project's criteria pollutant emissions would be less than significant.

c) *Would the project expose sensitive receptors to substantial pollutant concentrations?*

**Less-Than-Significant Impact with Mitigation.** Sensitive population groups include children, the elderly, the acutely and chronically ill, and those with cardio-respiratory diseases. The SJVAPCD considers a sensitive receptor to be a location that houses or attracts children, the elderly, people with illnesses, or others who are especially sensitive to the effects of air pollutants. Examples of sensitive receptors include hospitals, residences, convalescent facilities, and schools. The closest existing sensitive receptors are residences located approximately 52.8 feet (0.01 mile) west of the project boundary. The project site is located within 1,000 feet of existing sensitive receptors that could be exposed to diesel emission exhaust during the construction period. To estimate the potential cancer risk associated with construction of the proposed project from equipment exhaust (including DPM), a dispersion model was used to translate an emission rate from the source location to concentrations at the receptor locations of interest (i.e., receptors at nearby residences). A maximally exposed receptor (MER) was determined for construction and through the use of the dispersion modeling. The project would not exceed SJVAPCD localized emission daily screening levels for any criteria pollutant. The project is not a significant source of Toxic Air Contaminant (TAC) emissions during operations and is not a significant source of TAC emissions during construction after incorporation of MM AIR-1. The project is not in an area with suitable habitat for Valley fever spores and is not in an area known to have naturally occurring asbestos. Therefore, the project would not result in significant impacts to sensitive receptors after implementation of mitigation measure AIR-1. AIR-1 would ensure that a **less-than-significant impact with mitigation** occurs.

Mitigation Measure AIR-1: Before a construction permit is issued for the proposed project, the project applicant, project sponsor, or construction contractor shall submit documentation demonstrating reasonably detailed compliance with the following requirements to the City of Clovis:

4 Air Quality and Greenhouse Gas Technical Memorandum, prepared by Johnson, Johnson, and Miller Air Quality Consulting Services in December of 2023.

(1) Where portable diesel engines are used during construction, all off-road equipment with engines greater than 50 horsepower shall have engines that meet or exceed either United States Environmental Protection Agency (EPA) or California Air Resources Board (CARB) Tier 4 Interim off-road emission standards or be equipped with Level 3 diesel particulate filters. Tier 4 Interim engines shall, at a minimum, meet EPA or CARB particulate matter emissions standards for Tier 4 Interim engines. Alternatively, use of CARB-certified Level 3 diesel particulate filters on off-road equipment with engines greater than 50 horsepower can be used in lieu of Tier 4 Interim engines or in combination with Tier 4 Interim or better engines. The construction contractor shall maintain records documenting its efforts to comply with this requirement, including equipment lists. Off-road equipment descriptions and information shall include, but are not limited to, equipment type, equipment manufacturer, equipment identification number, engine model year, engine certification (Tier rating), horsepower, and engine serial number. The project applicant and/or construction contractor shall submit the construction operations plan and records of compliance to the City of Clovis.

d) *Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?*

**Less-Than-Significant Impact.** The occurrence and severity of odor impacts depend on numerous factors, including the nature, frequency, and intensity of the source; wind speed and direction; and the presence of sensitive receptors. Although offensive odors rarely cause any physical harm, they still can be very unpleasant, leading to considerable distress and often generating citizen complaints to local governments and regulatory agencies. Project operations would not be anticipated to produce odorous emissions, as the project would not be considered an odor generator based on the surrounding land uses. Construction activities associated with the proposed project could result in short-term odorous emissions from diesel exhaust associated with construction equipment. However, these emissions would be intermittent and would dissipate rapidly from the source. In addition, this diesel-powered equipment would only be present onsite temporarily during construction activities. The temporary and intermittent nature of construction activities would decrease the likelihood of the odors concentrating in a single area or lingering for any notable period of time. As such, these odors would likely not be noticeable for extended periods of time beyond the project's site boundaries. Therefore, construction would not create objectionable odors affecting a substantial number of people from use of diesel-powered equipment. Thus, a **less-than-significant** impact would occur with no mitigation measures.

## 4. BIOLOGICAL RESOURCES

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service? | | X | | |
| b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Game or US Fish and Wildlife Service? | | | X | |

| | | | | |
|---|---|---|---|---|
| c. Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means? | | | | X |
| d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites? | | | | X |
| e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? | | | | X |
| f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural community Conservation Plan, or other approved local, regional, or state habitat conservation plan? | | | | X |

**ENVIRONMENTAL SETTING**

A Biological Resource Assessment (BRA) was prepared by Argonaut Ecological Consulting, Inc., November 22, 2023 (see Appendix B). This BRA included a literature review and records search to identify the existence and potential for occurrence of sensitive or special-status plant and animal species in the project vicinity. The site is flat, comprised of single-family residences with portions of the site undeveloped.

**DISCUSSION**

a) *Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?*

**Less-Than-Significant Impact With Mitigation.** As described in the BRA, the Project is in an area that was historically in agricultural production. The Project Site is developed with rural residential homes, pasture (previously irrigated), landscaped areas, and a horse paddock. There are no sensitive habitats within the site, including waters/wetlands or critical habitat for species of concern. The Study Area potentially provides a habitat for nesting raptors (burrowing owl) and migratory birds. Implementation of mitigation measure BIO-1 would ensure that a **less-than-significant impact with mitigation** occurs.

Mitigation Measure BIO-1: If ground disturbance (including grading, grubbing, home demolition, tree removal, or construction equipment and materials mobilization) is initiated during the nesting season (February 1 – August 31), a pre-construction survey for potential nesting raptors, migratory birds, and burrowing is recommended.

b) *Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?*

**Less-Than-Significant Impact.** As mentioned previously, the Project is located on a primarily undeveloped site with three single-family residences, and accessory buildings, landscaping, and ruderal plants. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities.

There are no riparian habitats or sensitive natural communities identified at the site, nor are there any identified in local or regional plans. Therefore, the Project would not result in a substantial adverse effect with respect to this threshold, and a **less-than-significant** impact would occur.

c) *Would the project have a substantial adverse effect on state or federally protected wetlands as (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?*

**No Impact.** Based on the Biological Resources Assessment prepared for the Project, no wetland features are known to exist at the Project site.

d) *Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?*

**No Impact.** The BRA did not identify the site as a regional or local wildlife movement corridors,[5] thus, **no impact** would occur.

e) *Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?*

**No Impact.** The Project site does not indicate the presence of any sensitive habitat or wildlife features that would be impacted and will be consistent with the CMC and 2014 General Plan polices. Although Policy 2.6 of the Open Space and Conservation Element of the General Plan calls for the protection of biological resources, the Biological Evaluation did not identify any such resources at the site due to its location. Further, trees and shrubs are absent from the Project site; therefore, **no impact** would occur, and no mitigation measures are required.

f) *Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural community Conservation Plan, or other approved local, regional, or state habitat conservation plan?*

**No Impact.** The City and Fresno County currently do not have a regional Natural Community Conservation Plan or a Habitat Conservation Plan. The Project site is subject to relevant biological resource policies of the 2014 General Plan. Therefore, there are no impacts to conservation plans. Overall, **no impact** would occur.

## 5. CULTURAL RESOURCES

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5? | | X | | |
| b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5? | | X | | |

5 Biological Resources Evaluation prepared by LSA, June 2024, page 3.

| | | | | |
|---|---|---|---|---|
| c. Disturb any human remains, including those interred outside of formal cemeteries? | | X | | |

**ENVIRONMENTAL SETTING**

The Project is located on a primarily undeveloped site with three single-family residences, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities.

A Cultural Resource Assessment (Cultural Study) was prepared by Peak & Associates, Inc. dated December 15, 2024 (see Appendix C). This Cultural Study included a records search at the California Historical Resources Information System (CHRIS) Southern San Joaquin Valley Information Center (SSJVIC), Native American Heritage Commission's (NAHC) Sacred Lands File, desktop archival research, as well as a pedestrian survey of the Project site.

In addition to the Cultural Report, City staff conducted Native American Consultation in compliance with Assembly Bill 52 (AB52). In compliance with AB52, invitations for consultation were mailed on July 2, 2024 which affords Native tribes thirty (30) days to respond and to request consultation. During that time, one (1) tribe requested consultation. On September 30, 2024 a representative from Table Mountain Rancheria met with City staff via virtual call to discuss the potential for cultural resources at the Project annexation area. Following the meeting the representative from Table Mountain Rancheria voiced concerns for the potential sites of tribal significance. Based on the conversation while potential sites were within the annexation area, they were outside of the Project development site. However, mitigation measures are included in the following analysis to ensure protection of such resources if any are discovered inadvertently. With the incorporation of the mitigation measures, the consultation ended.

**DISCUSSION**

a) *Would the project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?*

**Less-Than-Significant Impact With Mitigation.** As previously mentioned, the Project site is partially developed with three existing residences. A cultural resource records search was conducted including a 0.25-mile radius of the Project, indicating that there were no resources reported on the Project site. Additionally, a field survey also indicated that there are no prehistoric resources existing within the Project boundary. Although no sites were found, there is a slight possibility that a site may exist and be totally obscured by vegetation, fill, or other historic activities, leaving no surface evidence. Should artifacts or unusual amounts of stone, bone, or shell be uncovered during construction activities, an archeologist should be consulted for on-the-spot evaluation of the finding.

Further, compliance with Policy 2.9 of the General Plan, which calls for the preservation of historical sites and buildings of state or national significance, would ensure that if there were historical resources present, they would be protected. Because there is the slight possibility for the accidental or inadvertent uncovering of archaeological resources during construction, Mitigation Measure CULT-1 would serve to reduce those potential impacts by requiring any work to stop until any found artifacts can be properly removed and inventoried by a qualified archaeologist. Therefore, regarding the Project causing a substantial adverse change in the significance of a historical resource the Project would result in a **less-than-significant impact with mitigation.**

Mitigation Measure CULT-1: If prehistoric or historic-era cultural or archaeological materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a

qualified professional archaeologist, meeting the Secretary of the Interior's Professional Qualification Standards for prehistoric and historic archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.

If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.

If a potentially eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met.

b) *Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?*

**Less-Than-Significant Impact With Mitigation.** The Project is situated adjacent to a mix of neighboring agricultural lands, current rural residential properties, future medium to high density residential housing, and existing single-family residences to the southeast. The site's ground has been previously disturbed as a result of the agriculture, and residential uses and other ground disturbing activities throughout the years. Nevertheless, the potential remains that archeological resources could be inadvertently or accidentally uncovered during ground-disturbing activities such as trenching, digging, and the installation of utilities and other infrastructure.

Because there is the slight possibility for the accidental or inadvertent uncovering of archaeological resources during construction, Mitigation Measure CULT-1 would serve to reduce those potential impacts by requiring any work to stop until any found artifacts can be properly removed and inventoried by a qualified archaeologist. Therefore, the Project would result in a **less-than-significant impact with mitigation**.

c) *Would the project disturb any human remains, including those interred outside of formal cemeteries?*

**Less-Than-Significant Impact With Mitigation.** The Project is situated adjacent to a mix of neighboring agricultural lands, current rural residential properties, future medium to high density residential housing, and existing single-family residences to the southeast. The site's ground has been previously disturbed as a result of the agriculture, and residential uses and other ground disturbing activities throughout the years. Nevertheless, the potential remains that human remains could be inadvertently or accidentally uncovered during ground-disturbing activities such as trenching, digging, and the installation of utilities and other infrastructure.

Because there is the slight possibility for the accidental or inadvertent uncovering of human remains during construction, Mitigation Measure CULT-2 would serve to reduce those potential impacts by requiring any work to stop until any found human remains can be properly removed by the County coroner and/or tribes. Therefore, the Project would result in a **less-than-significant impact with mitigation**.

Mitigation Measure CULT-2: If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code. The specific protocol, guidelines, and channels of communication

outlined by the Native American Heritage Commission, in accordance with Section 7050.5 of the Health and Safety Code, Section 5097.98 of the Public Resources Code (Chapter 1492, Statutes of 1982, Senate Bill 297), and Senate Bill 447 (Chapter 44, Statutes of 1987), shall be followed. Section 7050.5(c) shall guide the potential Native American involvement, in the event of discovery of human remains, at the direction of the County coroner. All reports, correspondence, and determinations regarding the discovery of human remains on the project site shall be submitted to the Lead Agency.

## 6. ENERGY

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation? | | | X | |
| b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency? | | | X | |

**ENVIRONMENTAL SETTING**

The Project is situated on a primarily undeveloped site with three single-family residences, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities.

**DISCUSSION**

a) *Would the project result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?*

**Less-Than-Significant Impact.** The Project proposes the construction of 162 single-family homes on ±14.57 acres, along with associated landscape, hardscape, and infrastructure (i.e., drive aisles, utilities, etc.). The Project would include construction activities typical of residential development, thus, is not generally considered the type of use or intensity that would result in the unnecessary consumption of energy. The units themselves would comply with Title 24 Green Building Standards for energy efficiency, as well as be required to comply with the latest water efficient landscape policy regulations, and California Building Code. Further, the Project would be required to comply with Clovis 2014 General Plan Policy 3.4, and 3.7 of the Open Space and Conservation, which call for the use of water conserving and drought tolerant landscape, as well as energy efficient buildings. Consequently, compliance with these measures would ensure that the Project does not result in a significant impact due to the unnecessary consumption of energy and **less-than-significant** impact would occur with no mitigation measures.

b) *Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?*

**Less-Than-Significant Impact.** See discussion under Section 6a above.

## 7. GEOLOGY AND SOILS

| Would the project: | Potentially | Less Than | Less Than | No |
|---|---|---|---|---|

| | Significant Impact | Significant With Mitigation Incorporated | Significant Impact | Impact |
|---|---|---|---|---|
| a. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: | | | X | |
| i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? | | | X | |
| ii. Strong seismic ground shaking? | | | X | |
| iii. Seismic-related ground failure, including liquefaction? | | | X | |
| iv. Landslides? | | | X | |
| b. Result in substantial soil erosion or the loss of topsoil? | | | X | |
| c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse? | | | X | |
| d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property? | | | | X |
| e. Have soils incapable of adequately supporting the use of septic tanks or alternative waste disposal systems where sewers are not available for the disposal of wastewater? | | | | X |
| f. Directly or indirectly destroy a unique paleontological resource or unique geologic feature? | | X | | |

**ENVIRONMENTAL SETTING**

The 2014 Clovis General Plan EIR identified no geologic hazards or unstable soil conditions known to exist on the Project site.

**DISCUSSION**

a) *Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?; ii) Strong seismic ground shaking?; iii) Seismic-related ground failure, including liquefaction?; iv) Landslides?*

**Less-Than-Significant Impact.** Although the Project site does not have any known faults on the site, the potential remains that seismic ground-shaking could occur from the fault located east of the Project. However, adherence to the most current California Building Codes would ensure that the structures are constructed safely and in compliance with the appropriate building codes. With regards to liquefaction, the 2014 General Plan EIR states that the soil types in the area are not considered conducive to liquefaction due to their high clay content or from being too coarse.[6] Further, the site is generally flat and therefore landslides would not occur at the Project site. Overall, due to the location away from a known fault, adherence to the most recent California Building Codes, and the flat topography, a **less-than-significant impact** would occur with regards to potential impacts from seismic activity.

b) *Would the project result in substantial soil erosion or the loss of topsoil?*

**Less-Than-Significant Impact.** Although the site is relatively flat, grading activities would be required to ensure a flat and graded surface prior to construction, which may result in the soil erosion and loss of topsoil. However, as part of the Project, grading plans are required to be submitted and approved by the Engineering Division to ensure appropriate grading of the site. Thus, this review and approval process would ensure that a **less-than-significant** impact occur, and no mitigation measures are required.

c) *Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?*

**Less-Than-Significant Impact.** See discussion under Section 7a.

d) *Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating direct or indirect substantial risks to life or property?*

**No Impact.** According to the 2014 Clovis General Plan EIR, expansive soils are mostly present in areas along the northern edge of the non-Sphere of Influence (SOI) and the easternmost part of the Clovis non-SOI plan area. Because the Project is not within the vicinity of these areas, there would be no potential for creating direct or indirect substantial risks to life or property with regards to expansive soils. As a result, **no impact** would occur.

e) *Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste disposal systems where sewers are not available for the disposal of wastewater?*

**No Impact.** The Project does not propose the use of septic tanks; therefore, **no impact** would occur.

f) *Would the project directly or indirectly destroy a unique paleontological resource or unique geologic feature?*

6 2014 Clovis General Plan EIR, Chapter 5: Geology and Soils, page 5.6-3.

**Less-Than-Significant Impact With Mitigation.** The Project site has been previously disturbed, as well as the immediately surrounding areas with no known occurrences of the discovery of paleontological resources. In addition, the BRA concluded that the potential for uncovering of subsurface deposits is unlikely. Nevertheless, the possibility remains that the inadvertent or accidental discovery could occur during ground disturbing construction activities. However, Mitigation Measure GEO-1, below, would serve to protect the accidental discovery of paleontological resources. As such, a **less-than-significant with mitigation** impact would occur.

> Mitigation Measure GEO-1: If prehistoric or historic-era cultural materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist and/or paleontologist, meeting the Secretary of the Interior's Professional Qualification Standards for prehistoric and historic archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.
>
> If the qualified professional determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.
>
> If a potentially eligible resource is encountered, then the qualified professional archaeologist and/or paleontologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met.

## 8. GREENHOUSE GAS EMISSIONS

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? | | | X | |
| b. Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases? | | | X | |

**ENVIRONMENTAL SETTING**

Gases that trap heat in the atmosphere are referred to as greenhouse gases (GHGs) because they capture heat radiated from the sun as it is reflected into the atmosphere. The accumulation of GHG's has been implicated as a driving force for global climate change. Definitions of climate change vary between and across regulatory authorities and the scientific community, but in general can be described as the changing of the earth's climate caused by natural fluctuations and anthropogenic activities which alter the composition of the global atmosphere.

Individual projects contribute to the cumulative effects of climate change by emitting GHGs during construction and operational phases. The principal GHGs are carbon dioxide, methane, nitrous oxide, ozone, and water vapor. While the presence of the primary GHGs in the atmosphere are naturally occurring, carbon dioxide ($CO_2$), methane ($CH_4$), and nitrous oxide ($N_2O$) are largely emitted from human activities, accelerating the rate at which these compounds occur within earth's atmosphere. Carbon dioxide is the "reference gas" for climate change, meaning that emissions of GHGs are typically reported in "carbon dioxide-equivalent" measures. Emissions of carbon dioxide are largely by-products of fossil fuel combustion, whereas methane results from off-gassing associated with agricultural practices and landfills. Other GHGs, with much greater heat-absorption potential than carbon dioxide, include hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride, and are generated in certain industrial processes.

There is international scientific consensus that human-caused increases in GHGs have and will continue to contribute to global warming, although there is uncertainty concerning the magnitude and rate of the warming. Potential global warming impacts in California may include, but are not limited to, loss in snowpack, sea level rise, more extreme heat days per year, more high ozone days, more large forest fires, and more drought years. Secondary effects are likely to include a global rise in sea level, impacts to agriculture, changes in disease vectors, and changes in habitat and biodiversity.

In 2005, in recognition of California's vulnerability to the effects of climate change, Executive Order S-3-05 was signed. The order sets forth a series of target dates by which statewide emission of GHGs would be progressively reduced, as follows: by 2010, reduce GHG emissions to 2000 levels; by 2020, reduce GHG emissions to 1990 levels; and by 2050, reduce GHG emissions to 80 percent below 1990 levels. In 2006, California passed the California Global Warming Solutions Act of 2006 (Assembly Bill 32), which requires the California Air Resources Board to design and implement emission limits, regulations, and other measures, such that feasible and cost-effective statewide GHG emissions are reduced to 1990 levels by 2020.

In December 2009, the SJVAPCD adopted guidance for addressing GHG impacts in its *Guidance for Valley Land Use Agencies in Addressing GHG Emission Impacts for New Projects under* CEQA. The guidance relies on performance-based standards, otherwise known as Best Performance Standards (BPS), to assess significance of project-specific GHG emissions on global climate change during the environmental review process. Projects can reduce their GHG emission impacts to a less than significant level by implementing BPS. Projects can also demonstrate compliance with the requirements of AB 32 by demonstrating that their emissions achieve a 29% reduction below "business as usual" (BAU) levels. BAU is a projected GHG emissions inventory assuming no change in existing business practices and without considering implementation of any GHG emission reduction measures.

***Significance Criteria***

The SJVAPCDs *Guidance for Valley Land Use Agencies in Addressing GHG Impacts for New Projects Under CEQA* provides initial screening criteria for climate change analyses, as well as draft guidance for the determination of significance.

The effects of project specific GHG emissions are cumulative, and therefore climate change impacts are addressed as a cumulative, rather than a direct, impact. The guidance for determining significance of impacts has been developed from the requirements of Assembly Bill 32. The guideline addresses the potential cumulative impacts that a project's GHG emissions could have on climate change.

Since climate change is a global phenomenon, no direct impact would be identified for an individual land development project. The following criteria are used to evaluate whether a project would result in a significant impact for climate change impacts:

- Does the project comply with an adopted statewide, regional, or local plan for reduction or mitigation of GHG emissions?

- Does the project achieve 29% GHG reductions by using approved Best Performance Standards?

- Does the project achieve Assembly Bill 32 targeted 29% GHG emission reductions compared with BAU?

Projects that meet one of these guidelines would have less-than-significant impact on the global climate. The goal of 29% below BAU for emissions of GHG has been used as a threshold of significance for this analysis.

In December 2022, the 2022 Scoping Plan was approved by the CARB which assesses progress toward achieving carbon neutrality by 2045. Because neither the City of Clovis or the SJVAPCD have developed or adopted numerical GHG significance threshold, the proposed Project was analyzed for consistency with the 2022 Scoping Plan consistent with statewide climate goals. The 2022 Scoping Plan includes key project attributes that reduce operational GHG emissions.

**DISCUSSION**

a) *Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?*

**Less-Than-Significant Impact.** The Project would include the construction and operation of 162 single-family homes and associated infrastructure (i.e., sewer and water infrastructure, roadways, sidewalks, etc.). As such, GHG emissions would be produced through the construction and operational phases of the Project. As a result, an estimate of the Project's operational emissions indicate that the proposed project will not exceed the significant criteria for daily ROG, $NO_x$, CO, $SO_x$, $PM_{2.5}$ and $PM_{10}$.[7] The project will not result in a cumulatively considerable net increase of any criteria pollutant. With the implementation of recommended mitigation, the proposed project is generally consistent with the key project attributes recommended in the 2022 Scoping Plan, as further discussed below.

The proposed project may contribute to climate change impacts through its contribution of GHGs, due to Vehicle Miles Traveled (VMT). The proposed project would generate a variety of GHGs during construction and operations, including several defined by AB 32, such as CO2, CH4, and N2O from the exhaust of equipment during construction and on-road vehicle trips during construction and operations. Regarding goals for 2050 under Executive Order S-3-05, at this time it is not possible to quantify the emissions savings from future regulatory measures with any level of certainty, as they have not yet been developed; nevertheless, it can be anticipated that operation of the project would comply with whatever measures are enacted that state lawmakers decide would lead to an 80 percent reduction below 1990 levels by 2050. In its 2008 Scoping Plan, CARB acknowledged that the "measures needed to meet the 2050 are too far in the future to define in detail." In the First Scoping Plan Update; however, CARB generally described the type of activities required to achieve the 2050 target: "energy demand reduction through efficiency and activity changes; large scale electrification of on-road vehicles, buildings, and industrial machinery; decarbonizing electricity and fuel supplies; and rapid market penetration of efficiency and clean energy technologies that requires significant efforts to deploy and scale markets for the cleanest technologies immediately." The 2017 Scoping Plan provides an intermediate target that is intended to achieve reasonable progress toward the 2050 target. In addition, the 2022 Scoping Plan outlines objectives, regulations, planning efforts, and investments in clean technologies and infrastructure that outlines how the State can achieve carbon-neutrality by 2045. The 2022

7 Air Quality and Greenhouse Gas Technical Memorandum, prepared by Johnson, Johnson, and Miller Air Quality Consulting Services in December of 2023.

Scoping Plan strategies that are applicable to the project include reducing fossil fuel use, energy demand, and vehicle miles traveled; maximizing recycling and diversion from landfills; and increasing water conservation. The TM6467 project would be consistent with these goals through project design, which include complying with the latest requirements of the CALGreen Code and Building Energy Efficiency Standards. For instance, the latest requirement requires all new single-family homes to be equipped with solar to provide on-site renewable energy. In addition, the project would receive electricity from PG&E, which is required to reduce GHG emissions by increasing procurement from eligible renewable energy by set target years.

Furthermore, the project would be consistent with goals to reduce VMT by constructing new homes near existing residential, commercial, and public uses. The project would also to encourage alternative modes of transportation by providing infrastructure for future EV chargers (consistent with the applicable Building Code) and would provide extensive pedestrian connectivity within the project site and to adjacent land uses. The project would further align with goals in the 2022 Scoping Plan by incorporating a number of sustainable design features, including, but not limited, to installation of energy-efficient light fixtures, high-efficiency plumbing fixtures, EV parking spaces, and rooftop PV systems and solar panels (consistent with the requirements of Title 24). Accordingly, taking into account the proposed project's emissions, project design features, and the progress being made by the State towards reducing emissions in key sectors such as transportation, industry, and electricity, the project would be consistent with State GHG Plans and would further the State's goals of reducing GHG emissions to 1990 levels by 2020, 40 percent below 1990 levels by 2030, carbon neutral by 2045, and 80 percent below 1990 levels by 2050, and does not obstruct their attainment.

As described above, the proposed project would be consistent with State GHG Plans and would not obstruct the State's ability to meet its goals of reducing GHG emissions 40 percent below 1990 levels by 2030, carbon neutral by 2045, and 80 percent below 1990 levels by 2050. Therefore, the project's generation of GHG emissions would result in a **less-than-significant impact.**

b) *Would the project conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?*

**Less-Than-Significant Impact.** Based on the AQ/GHG Report,[8] the analysis contained above in Section A evaluates whether the project would not conflict with any applicable plan, policy, or regulation of an agency adopted to reduce the emissions of GHGs. As discussed above, the project would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing emissions GHGs. Consequently, the AQ/GHG Report found this potential impact to be **less than significant** with no mitigation measures.

## 9. HAZARDS AND HAZARDOUS MATERIALS

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials? | | | X | |
| b. Create a significant hazard to the public or the environment through reasonably | | | X | |

8 Air Quality and Greenhouse Gas Technical Memorandum, prepared by Johnson, Johnson, and Miller Air Quality Consulting Services in December of 2023.

| | | | | |
|---|---|---|---|---|
| foreseeable upset and accident conditions involving the release of hazardous materials into the environment? | | | | |
| c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? | | | | X |
| d. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? | | | | X |
| e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area? | | | | X |
| f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? | | | X | |
| g. Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires? | | | X | |

**ENVIRONMENTAL SETTING**

For purposes of this chapter, the term "hazardous materials" refers to both hazardous substances and hazardous wastes. A "hazardous material" is defined in the Code of Federal Regulations (CFR) as "substance or material that is capable of posing an unreasonable risk to health, safety, and property when transported in commerce" (49 CFR 171.8). California Health and Safety Code Section 25501 defines a hazardous material as "any material that, because of its quantity, concentration, or physical, or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment." Hazardous materials include, but are not limited to, hazardous substances, hazardous waste, and any material which a handler or the administering agency has a reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment.

"Hazardous wastes" are defined in California Health and Safety Code Section 25141(b) as wastes that "…because of their quantity, concentration, or physical, chemical, or infectious characteristics, [may either] cause or significantly contribute to an increase in mortality or an increase in serious illness, or pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of, or otherwise managed."

The nearest school to the Project site is Woods Elementary School, located approximately two (2) miles southeast of the site at its closest point.

**DISCUSSION**

a) *Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?*

**Less-Than-Significant Impact.** The Project consists of the construction of 162 single-family homes on ±14.57 acres. The type of hazardous materials that would be associated with the Project are those typical of residential uses, such as the use of household cleaners, landscape maintenance products, soaps, and potential pesticides (for pest control). These materials, when used and applied properly, would not necessarily create a significant hazard to the public or the environment. Further, these materials are not anticipated to be stored in large quantities that could pose a threat. Overall, the Project would not routinely transport, use, or dispose of hazardous materials other than those typical of residential development, which are not generally considered of the type or quantity that would pose a significant hazard to the public when used as directed. During construction, typical equipment and materials would be used that are associated with residential construction; however, any chemicals or materials would be handled, stored, disposed of, and/or transported according to applicable laws. Consequently, because the Project is not of the type of use that would routinely transport, use, or dispose of hazardous materials a **less-than-significant** impact would occur with no mitigation measures.

b) *Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?*

**Less-Than-Significant Impact.** See discussion above under Section 9a.

c) *Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?*

**No Impact.** As mentioned above, the Project site is located approximately two (2) miles from the nearest school. Further, the Project is not of the type of use typically associated with emitting hazardous emissions or handling the type or quantity of hazardous materials such that it would pose a risk or threat to the school, or surrounding area. Therefore, **no impact** would occur.

d) *Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?*

**No Impact.** According to the California Department of Toxic Substance Control EnviroStor Database, the Project site is not located on or within the immediate vicinity of a hazardous materials site.[9] Therefore, **no impact** would occur.

e) *For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?*

**No Impact.** The Project is located approximately seven (7) miles northeast of the Fresno Yosemite International Airport and is not within the Airport Influence Area, safety zones, noise, or airspace and overflight areas. Therefore, **no impact** would occur.

9 California Department of Toxic Substance Control, EnviroStor Database, https://www.envirostor.dtsc.ca.gov/public/map/?global_id=71003467, accessed on October 7, 2024.

f) *Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?*

**Less-Than-Significant Impact.** The Project will connect in the internal street network to N. Minnewawa, E. Perrin and N. Clovis Avenues. Although the Project could result in temporary traffic detouring or closures during buildout, these delays would be temporary and would be coordinated with the City Planning and Development Services Department and other departments to ensure safe access to and from the area is maintained. Further, the site itself would be reviewed by City departments to ensure adequate site access and circulation is provided in the event of an emergency. Overall, a **less-than-significant** impact would occur with no mitigation measures.

g) *Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?*

**Less-Than-Significant Impact.** The Project site it is not located in an area typically associated with wildfires. Although urban fires could occur, the Project would be constructed to the latest fire code standards, which would include fire sprinklers in each unit, as well as the installation of several fire hydrants throughout the site as required by the Clovis Fire Department. Further, other life safety features would be required such as smoke detectors, which would be reviewed and checked by the Fire Department to ensure proper operation prior to occupancy. Ultimately, a **less-than-significant** impact would occur with no mitigation measures.

**10. HYDROLOGY AND WATER QUALITY**

| **Would the project:** | **Potentially Significant Impact** | **Less Than Significant With Mitigation Incorporated** | **Less Than Significant Impact** | **No Impact** |
|---|---|---|---|---|
| a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality? | | | X | |
| b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin? | | | X | |
| c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: (i) result in substantial erosion or siltation on- or off-site; (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; (iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or (iv) impede or redirect flood flows? | | | X | |
| i. Result in substantial erosion or siltation | | | X | |

| | | | | |
|---|---|---|---|---|
| on- or off-site? | | | | |
| ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite? | | | X | |
| iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff? | | | X | |
| iv. Impede or redirect flood flows? | | | X | |
| d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation? | | | X | |
| e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? | | | X | |

**ENVIRONMENTAL SETTING**

The City is within the drainages of three streams: Dry Creek, Dog Creek, and Redbank Slough. On the north, Dry Creek discharges into the Herndon Canal in the City of Fresno west of Clovis. South of Dry Creek, Dog Creek is a tributary of Redbank Slough, which discharges into Mill Ditch south of Clovis (USGS 2012). A network of storm drains in the City discharge into 31 retention basins, most of which provide drainage for a one- to two-square-mile area. Most of the Plan Area east and northeast of the City is not in drainage areas served by retention basins.

The Project is located within the FMFCD boundary, and subject to its standards and regulations. Detention and retention basins in the FMFCD's flood control system are sized to accommodate stormwater from each basin's drainage area in built out condition. The current capacity standard for FMFCD basins is to contain runoff from six inches of rainfall during a 10-day period and to infiltrate about 75 to 80 percent of annual rainfall into the groundwater basin (Rourke 2014). Basins are highly effective at reducing average concentrations of a broad range of contaminants, including several polyaromatic hydrocarbons, total suspended solids, and most metals (FMFCD 2013). Pollutants are removed by filtration through soil, and thus do not reach the groundwater aquifer (FMFCD 2014). Basins are built to design criteria exceeding statewide Standard Urban Stormwater Mitigation Plan (SUSMP) standards (FMFCD 2013). The urban flood control system provides treatment for all types of development—not just the specific categories of development defined in a SUSMP—thus providing greater water quality protection for surface water and groundwater than does a SUSMP.

In addition to their flood control and water quality functions, many FMFCD basins are used for groundwater recharge with imported surface water during the dry season through contracts with the FID and the cities of Fresno and Clovis (FMFCD 2013).

The pipeline collection system in the urban flood control system is designed to convey the peak flow rate from a two-year storm.

Most drainage areas in the urban flood control system do not discharge to other water bodies and drain mostly through infiltration into groundwater. When necessary, FMFCD can move water from a basin in one such drainage area to a second such basin by pumping water into a street and letting water flow in curb and gutter

to a storm drain inlet in an adjoining drainage area (Rourke 2014). Two FMFCD drainage areas discharge directly to the San Joaquin River, and three to an irrigation canal, without storage in a basin. Six drainage areas containing basins discharge to the San Joaquin River, and another 39 basins discharge to canals (FMFCD 2013).

A proposed development that would construct more impervious area on its project site than the affected detention/retention basin is sized to accommodate is required to infiltrate some stormwater onsite, such as through an onsite detention basin or drainage swales (Rourke 2014).

The Big Dry Creek Reservoir has a total storage capacity of about 30 thousand acre-feet (taf) and controls up to 230-year flood flows. Fancher Creek Dam and Reservoir hold up to 9.7 taf and controls up to 200-year flood flows. Redbank Creek Dam and Reservoir hold up to 1 taf and controls up to 200-year flood flows.

***Groundwater***

Clovis is underlain by the Kings Groundwater Basin that spans 1,530 square miles of central Fresno County and small areas of northern Kings and Tulare counties. Figure 5.9-4, Kings Groundwater Basin, shows that the basin is bounded on the north by the San Joaquin River, on the west by the Delta-Mendota and Westside Subbasins, the south by the Kings River South Fork and the Empire West Side Irrigation District, and on the east by the Sierra Nevada foothills. Depth to groundwater in 2016 ranged from 196.5 feet at the northwest City boundary to 69.5 feet at the southeast City boundary (Clovis 2016), 25 feet at the southeast SOI boundary, and about 20 feet at the eastern Plan Area boundary (FID 2013). The Kings Subbasin has been identified as critically overdrafted (Provost & Pritchard 2011).

In the Plan Area, groundwater levels are monitored by the City of Clovis and FID. The overall area has not experienced land subsidence due to groundwater pumping since the early 1900s (FID 2006). Subsidence occurs when underground water or natural resources (e.g., oil) are pumped to the extent that the ground elevation lowers. No significant land subsidence is known to have occurred in the last 50 years as a result of land development, water resources development, groundwater pumping, or oil drilling (FID 2006). The City has identified a localized area of subsidence of 0.6 feet in the vicinity of Minnewawa and Herndon Avenues within the last 14 years (Clovis 2016). Regional ground subsidence in the Plan Area was mapped as less than one foot by the US Geological Survey in 1999 (Galloway and Riley 1999). Groundwater levels in the San Joaquin Valley are forecast to hit an all-time low in 2014 (UCCHM 2014).

New development in accordance with the General Plan Update would increase the amount of impervious surface in the Plan Area, potentially affecting the amount of surface water that filters into the groundwater supply. Groundwater levels are monitored in the Plan Area by the FID and the City of Clovis. As described in the 2015 City of Clovis Urban Water Management Plan (UWMP), groundwater recharge occurs both naturally and artificially throughout the City. The Kings Groundwater Basin area is recharged through a joint effort between the Cities of Clovis and Fresno and the FID (CDWR 2006). Approximately 8,400 acre-feet per year (afy) of water are intentionally recharged into the Kings Groundwater Basin by the City of Clovis, and approximately 7,700 afy of water naturally flow into groundwater in the City's boundaries (Clovis 2011).

The FMFCD urban stormwater drainage system would provide groundwater infiltration for runoff from developed land uses in detention basins in the drainage system service area.

Projects pursuant to the proposed General Plan Update and developed outside of the FMFCD urban stormwater drainage system would be required to meet the requirements of NPDES regulations, including the implementation of BMPs to improve water retention and vegetation on project sites.

**DISCUSSION**

a) *Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?*

**Less-Than-Significant Impact.** The Project is located on a site that was previously anticipated for residential use. As with any development, existing policies and standards are required to be complied with, which are assessed during review of the entitlements. As such, the Engineering Division, as well as outside agencies such as the FMFCD review all plans to ensure that none of the water quality standards are violated and that waste discharge requirements are adhered to during construction and operation of the Project. Consequently, this process of Project review and approval would ensure that a **less-than-significant** impact occur with no mitigation measures.

b) *Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?*

**Less-Than-Significant Impact.** The Project would not deplete groundwater supplies or interfere with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level due to the Project. The 2014 General Plan EIR identified a net decrease in ground water aquifer throughout the region, however, because the City's domestic water system is primarily served through surface water via existing water entitlements, the loss of aquifer is less than significant. The City has developed a surface water treatment plant (opened in June 2004) that reduces the need for pumped groundwater, and has also expanded the municipal groundwater recharge facility. The Projects impacts to groundwater are **less than significant** with no mitigation measures required.

c) *Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would: (i) result in substantial erosion or siltation on- or off-site; (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; (iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or (iv) impede or redirect flood flows?*

**Less-Than-Significant Impact.** There are no streams or rivers on the site that would be altered as a result of the Project. Further, some of the infrastructure surrounding the site, such as storm drains are already in place from existing development to the south. The site is mostly pervious since it is currently undeveloped, and as a result, the Project would increase the number of impervious surfaces by installing paving for roadways and sidewalks. However, the drainage pattern would be constructed per existing policies and regulations through review of the plans by the City Engineering Division and the FMFCD to ensure the site is properly and adequately drained such that the storm drain system is maintained and so that no flooding occurs. Consequently, this review and approval by City engineers and FMFCD would mean that the Project result in a **less-than-significant** impact would occur with no mitigation measures.

d) *Would the project, in flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?*

**Less-Than-Significant Impact.** Due to the Central Valley's location away from the ocean, an impact from a tsunami is unlikely. The majority of the site is located within the 1% annual flood (100-year flood) area as mapped by Federal Emergency Management Agency (FEMA); however, the CMC Section 8.12, Floodplain Management lists standards and requirements for new construction within special flood zones; therefore, the Project would implement flood hazard management as required by the CMC. As a result of adhering to required flood hazard management, the Project would not risk the release of pollutants due to inundation and

consequently, the Project would result in a **less-than-significant** impact would occur with no mitigation measures.

e) *Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?*

**Less-Than-Significant Impact.** The City of Clovis is within the North Kings County Groundwater Sustainability Agency (GSA). Pursuant to the Sustainable Groundwater Management Act of 2014 (SGMA), certain regions in California are required to develop and implement a groundwater management plan that sustainably manages groundwater resources. The proposed Project would comply with the 2020 City of Clovis UWMP which promotes programs and policies to manage water supplies. Nevertheless, the Project would derive the majority of its water from surface water sources and does not propose or include plans for groundwater use. With regards to water quality control, the Project would be required to adhere to appropriate storm drain conveyance and the protection of water resources which would include the installation of backflow preventers. Consequently, the Project would result in a **less-than-significant** impact with no mitigation measures.

## 11. LAND USE AND PLANNING

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Physically divide an existing community? | | | X | |
| b. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect? | | | X | |

**ENVIRONMENTAL SETTING**

As described above in the Project Description, the Project is located on a primarily undeveloped site with three single-family residences, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities.

**DISCUSSION**

a) *Would the project physically divide an existing community?*

**Less-Than-Significant Impact.** Although the Project is located on a primarily undeveloped site with three single-family residences, and accessory buildings, the surrounding area consists of primarily agricultural uses designated for future residential development at varying densities. Typically, physically dividing existing communities is associated with the construction of a new road intersecting an established area or introducing uses that are not necessarily in line with the existing uses and planned land uses of the area. However, the Project site has been previously designated in the 2014 Clovis General Plan and zoned for residential use.

Consequently, because the proposed Project is the type of use previously planned for this site and the general areas, it would not physically divide an existing community. Rather, it seeks to add new housing stock to the City with installation of a new public sidewalk and roadway infrastructure. Therefore, a **less-than-significant** impact would occur, and no mitigation measures are required.

b) *Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?*

**Less-Than-Significant Impact.** As mentioned in the Existing Setting Section above**,** the Project site is currently within the County of Fresno jurisdiction and zoned AE-20 (Exclusive Agricultural). However, the Project site will be rezoned to the R-1-PRD (Single-Family Planned Residential Development) Zone District though a separate entitlement application (Rezone 2024-005). According to Section 9.10.010(B)(5) of the CMC, the R-1-PRD Zone District identifies areas appropriate for single-family small lot uses, including attached and detached single-family structures on small lots. If approved, the Project will be required to go through the RSPR entitlement process for review for compliance with relevant design policies, such as in the Heritage Grove Master Plan, the CMC, and the General Plan. During the review, the height, color, and materials are reviewed for consistency with these plans and guidelines. As a result of the Project in complying with the land use and zoning designation upon approval, as well as the review process ensuring General Plan and other applicable policies are adhered to, the Project would result in a **less-than-significant** impact with regards to conflicting with a land use plan. No mitigation measures are required.

## 12. MINERAL RESOURCES

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? | | | | X |
| b. Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? | | | | X |

**ENVIRONMENTAL SETTING**

The City of Clovis 2014 General Plan EIR defines minerals as any naturally occurring chemical elements or compounds formed from inorganic processes and organic substances.[10] The 2014 General Plan EIR indicates that there are no active mines or inactive mines within the Plan Area of the City of Clovis.

**DISCUSSION**

a) *Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?*

**No Impact.** As stated above, the City of Clovis does not have any active mines or inactive mines. Therefore, **no impact** would occur.

b) *Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?*

**No Impact.** Please refer to the discussion under Section 12a.

10 2014 Clovis General Plan EIR, Chapter 5: Mineral Resources, page 5.11-1.

## 13. NOISE

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? | | | X | |
| b. Generation of excessive groundborne vibration or groundborne noise levels? | | | X | |
| c. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? | | | | X |

**ENVIRONMENTAL SETTING**

The Project is located on a primarily undeveloped site with three single-family residences, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities. As such, existing ambient noise levels are typical of those associated with residential development, such as the sound of vehicles passing by, the sound of talking, and recreation could be expected within the Project vicinity. As a result of construction existing ambient noise levels may be slightly elevated as a result of the use of construction equipment, such as large trucks, tractors, and other construction tools associated with residential development. These increases would be temporary, however, and would cease upon completion of the neighborhood.

**DISCUSSION**

a) *Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?*

**Less-Than-Significant Impact.** The Project would include development of 162 single-family homes on a primarily undeveloped site. Thus, the Project would result in a temporary and permanent increase in ambient noise levels as a result of construction and operation. However, as mentioned above, the Project site will be surrounded by residential development of varying densities. The Project would introduce new ambient noise from the construction and operation of the homes, these noises would represent the typical type of noise levels that is expected for a planned residential land use. While increases in ambient noise would occur due to the construction of the Project, this increase would be temporary and would be required to adhere to local regulations limiting the hours of construction.

The CMC Section 9.22.080, Noise, sets forth noise standards for development which would need to be complied with. For example, construction would only be permitted between the hours of 7:00 a.m. and 7:00 p.m. on weekdays, and between 9:00 a.m. and 5:00 p.m. on weekends. However, between June 1 and September 15, construction may begin at 6:00 a.m. on weekdays. Consequently, a **less-than-significant impact** would occur.

b) *Would the project result in generation of excessive groundborne vibration or groundborne noise levels?*

**Less-Than-Significant Impact.** The Project includes development of 162 single-family homes and associated infrastructure (i.e., sidewalks, roadways, curb, gutter, stormdrains, etc.). Therefore, construction equipment typical of the development of residential homes would be utilized temporarily. This equipment could include the use of heavy tractors, trucks, and other equipment; however, this type of equipment isn't typically associated with excessive groundborne vibration. If any vibration were to occur, it's likely that it would be temporary in nature and not at levels that would significantly impact the surrounding area. Further, the Project would be required to comply with the provisions of Section 9.22.090 of the CMC which requires that vibration not be perceptible along property lines and that it shall not interfere with operations or facilities on adjoining parcels. It's important to note also that temporary construction vibration and noise is exempt from these provisions due to the fact that construction is temporary. Overall, because the type of equipment likely to be used in the development of the Project is not considered to be of the type and intensity to result in substantial vibration or groundborne noise, the impact would be **less than significant** and no mitigation measures are required.

c) *For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?*

**No Impact.** The Project is located approximately seven (7) miles north of the Fresno Yosemite International Airport and is not within the Airport Influence Area, safety zones, noise, or airspace and overflight areas. Therefore, **no impact** would occur.

### 14. POPULATION AND HOUSING

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example through extension of roads or other infrastructure)? | | | X | |
| b. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? | | | X | |

**ENVIRONMENTAL SETTING**

The Project is located on a site that is planned for residential use in the 2014 Clovis General Plan. The Project site is ±14.57 acres and proposes 162 single-family homes.

**DISCUSSION**

a) *Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example through extension of roads or other infrastructure)?*

**Less-Than-Significant Impact.** The Project would result in 162 single-family homes. The Project site has an existing General Plan Land Use designation of Medium and Medium High Density Residential which allows for a blended density range. calculated with gross acres; the Project site would require a range of 60 to 183 dwelling units. The proposed density is 11.2 units per gross acre. Further, the Project includes residential use on a site that is planned for the type of use being proposed. Unplanned population growth is typically associated with providing new services in remote areas of the City or other infrastructure that was not previously identified in the General Plan. Although the Project would result in new housing units and population to the site, this growth was previously planned and anticipated under the 2014 General Plan. Thus, a **less-than-significant** impact would occur, and no mitigation measures are required.

b) *Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?*

**Less-Than-Significant Impact.** The Project site is the Project is located on a primarily undeveloped site with three single-family residences, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities. Therefore, the Project would not result in the substantial displacement of existing people or housing and a **less-than-significant** impact would occur.

**15. PUBLIC SERVICES**

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the Project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: | | | | |
| a. Fire protection? | | | X | |
| b. Police protection? | | | X | |
| c. Schools? | | | X | |
| d. Parks? | | | X | |
| e. Other public facilities? | | | X | |

**ENVIRONMENTAL SETTING**

The Project would be served by the Clovis Fire Department, Clovis Police Department, with mutual aid from the City of Fresno, when needed. The Project site would also be within the Clovis Unified School District.

The nearest fire station is Fire Station #3, located approximately two (2) miles south of the site. The other closest fire station is Fire Station #5, located approximately five (5) miles to southeast of the site.

**DISCUSSION**

a) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for fire protection services?*

**Less-Than-Significant Impact.** Although the Project would result in 162 new residential units, the site is located adjacent to an area of the City that is already served by the Clovis Fire Department. Upon annexation (RO310), the Project will then be located in an area the City will be able to serve. Also, the site itself is in close proximity to Fire Station's #3 and #5, which would mean that response times should be able to be maintained during calls for service. As part of the entitlement process for the Project, the Clovis Fire Department will review the design and site layout to ensure adequate fire safety measures and site circulation are achieved. This would include placement of new fire hydrants in certain locations throughout the site, adequate drive widths for fire truck and emergency vehicle access, and the appropriate application of fire codes, such as installation of sprinkler systems, fire alarms, and smoke detectors. Overall, with the site's close proximity to numerous fire stations, construction that would meet the latest fire code standards, and review by the Clovis Fire Department, impacts related to effects on the performance of the Fire Department would be **less-than-significant** and no mitigation measures are required.

b) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for police protection services?*

**Less-Than-Significant Impact.** Although the Project would result in 162 new residential units, the site is located adjacent to an area of the City this already able to be served by the Clovis Police Department. Upon annexation (RO310), the Project will then be located in an area the City will be able to serve. The Clovis Police Department headquarters are located at 1233 Fifth Street, which is approximately five (5) miles from the site. As part of the entitlement process for the Project, the Clovis Police Department will review the design and site layout to ensure adequate safety measures are achieved. Consequently, a **less-than-significant** impact would occur and no mitigation measures are required.

c) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for schools?*

**Less-Than Significant Impact.** As part of the review process, Clovis Unified School District (CUSD) is provided the opportunity to comment and work closely with the City as development is proposed. As mentioned previously, the Project site was previously planned for residential development, as indicated in the 2014 Clovis General Plan. As such, the CUSD has been aware of the potential for this type of development at this location. As part of the process, the Project would be required to pay school fees which typically go towards the improvement and/or construction of new schools or expanding existing schools if and when needed, as determined by the CUSD. Therefore, because the Project is consistent with what was previously planned for at this site in addition to payment of appropriate school fees set by the CUSD, a **less-than-significant** impact would occur and no mitigation measures are required.

d) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for parks?*

**Less-Than-Significant Impact.** Although the Project proposes one (1) 8,639 square foot park and one (1) 13,358 square foot park, these parks would not cause significant environmental impacts in order to maintain acceptable service ratios, response times or other performance objectives for parks. Furthermore, the Project is required to request annexation to and provide a covenant for the Landscape Maintenance District. Consequently, a **less-than-significant** impact would occur and no mitigation measures are required.

e) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for other public facilities?*

**Less-Than-Significant Impact.** Although the Project would result in 162 new residential units, residential uses have been previously planned for in the 2014 Clovis General Plan in this area. Also, through the entitlement process, the Project would undergo review by several departments and agencies for compliance with appropriate regulations and policies. This could result in various impact fees that are intended to maintain and enhance public facilities as appropriate to be able to accommodate the Project. As such, payment of the typical development fees, as well as project review by the different department and agencies, would result in the Project having a **less-than-significant** impact to public facilities. No mitigation measures are required.

## 16. RECREATION

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? | | | X | |
| b. Does the project include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment? | | | X | |

**ENVIRONMENTAL SETTING**

The nearest existing recreational site is Dry Creek Trailhead, located at the corner of Shepherd and Sunnyside Avenues. A future community park is planned approximately 200 feet east of the Project site.

**DISCUSSION**

a) *Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?*

**Less-Than-Significant Impact.** As mentioned in the Population and Housing section of this Initial Study, the Project is of the type previously planned and accounted for in the 2014 Clovis General Plan. Although 162 new residential units would be constructed, therefore, adding new population to the area that may utilize parks within the surrounding area, this growth was planned for with regards to park usage throughout the city. Further, the Project itself would include landscaped and open space areas on-site for its residents, as well as a pocket park space within the neighborhood, thereby, providing areas of recreation within the site itself. The Project would also be required to comply with 2014 General Plan Policy 2.2 of the Open Space and Conservation Element which encourages the incorporation of on-site natural resources.

b) *Does the project include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?*

**Less-Than-Significant Impact.** The Project site itself would construct an on-site neighborhood park. The Project itself would not require the construction or expansion of new recreational facilities elsewhere that would have an adverse physical effect on the environment. The Project would also be required to contribute a proportionate share towards the acquisition and development of future parks in order for the City to maintain its adopted ratio of providing four (4) acres of parkland per 1,000 residents, as stated in Policy 1.1 in the Open Space and Conservation Element of the 2014 General Plan, and Section 3.4.03 of the CMC. As such, a **less-than-significant** impact would occur and no mitigation measures are required.

## 17. TRANSPORTATION

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities? | | | X | |
| b. Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)? | X | | | |
| c. Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? | | | X | |
| d. Result in inadequate emergency access? | | | X | |

**ENVIRONMENTAL SETTING**

The project is bound by N. Minnewawa Avenue to the west, E. Perrin Avenue to the north, and N. Clovis Avenue to the east. The circulation network serving the site including internal site circulation will be constructed as part of the project.

According to the 2014 Clovis General Plan Circulation Diagram in the Circulation Element (Figure C-1 of the Circulation Element), East Perrin Avenue is classified as a “Collector” street. Collectors generally intended to provide for relatively short distance travel between and within neighborhoods and that serve longer through trips. North Minnewawa and North Clovis Avenues are classified as “Arterial” roads. An arterial road is a high-

capacity road that connects different areas of the city and is a crucial part of the national transportation system. Arterial roads are designed to carry large amounts of traffic efficiently and minimize delays.

A Transportation Impact Analysis (TIA) and Vehicle Miles Traveled Analysis (VMT) was prepared by JLB Traffic Engineering, Inc. in April of 2024 (included as Appendix D and E of this Initial Study). The information and analysis in the following sections is based in part on the results of the TIA and VMT.

**DISCUSSION**

a) *Would the project conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?*

**Less-Than-Significant Impact.** As mentioned above, the site is on land that was previously planned for residential use in the 2014 Clovis General Plan. As described in the Population and Housing section above, the Project will be consistent with the planned density. The 2024 Clovis General Plan considers level of service (LOS) D as the LOS standard vehicle traffic operations, except for roadway segments that are adopted in the City's General Plan EIR to operate at LOS E or F. At study intersections under the jurisdiction of the City of Clovis, a significant impact would occur at a signalized intersection when LOS falls below the target LOS of D with the addition of project traffic or when project increases the average delay at an intersection already operating at an unacceptable LOS.

The TIA studied seven (7) intersections 1) Minnewawa and Behymer Avenues, 2) Minnewawa and Perrin Avenues, 3) Clovis and Perrin Avenues (future), 4) Clovis and Baron Avenues, 5) Peach and Shepherd Avenues, 6) Minnewawa and Shepherd Avenues, and 7) Clovis and Shepherd Avenues for existing conditions, existing-plus-project conditions, near term with project conditions, and cumulative conditions to the year 2046. Each scenario is based on the Projects a.m. and p.m. peak hour trips as determined in the TIA. According to the TIA, the Project would result in 113 trips in the a.m. peak hours of between 7:00 a.m. and 9:00 a.m. and 152 trips in the p.m. peak hours between 4:00 p.m. and 6:00 p.m., as well as a total of 1,528 daily vehicle trips. Per the TIA, with incorporation of improvements recommended for each scenario, all study intersections will operate at satisfactory LOS levels thus, the Project, will not conflict with the Circulation Element of the 2014 General Plan. Consequently, a **less-than-significant** impact would occur. No mitigation measures are required.

b) *Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?*

**Significant and Unavoidable Impact.** Senate Bill 743 (SB 743) requires that relevant CEQA analysis of transportation impacts be conducted using a metric known as vehicle miles traveled (VMT) instead of level of service (LOS). VMT measures how much actual auto travel (additional miles driven) a proposed project would create on California roads. If the proposed project adds excessive car travel onto our roads, the proposed project may cause a significant transportation impact. Per CEQA Guidelines Section 15064.3(b)(4) a lead agency has discretion to choose the most appropriate methodology to evaluate a project's VMT, including whether to express the change in absolute terms, per capita, per household or in any other measure. A lead agency may use models to estimate a project's VMT and may revise those estimates to reflect professional judgment based on substantial evidence. Any assumptions used to estimate VMT and any revisions to model outputs should be documented and explained in the environmental document prepared for the project.

On October 17, 2022, the City of Clovis adopted the Transportation Impact Analysis Guidelines (Guidelines), dated September 15, 2022. Consistent with CEQA Guidelines Section 15064.3, the City of Clovis has adopted thresholds of significance to determine when a project will have a significant transportation impact based on VMT. The City has developed screening criteria to streamline the analysis for projects that meet certain

criteria. A project will require a detailed VMT analysis unless it meets at least one of the City's five screening criteria[11]:

- Small Projects that generate less than 500 vehicle trips per day (i.e., Single-Family Residential developments with less than 53 dwelling units).
- Provision of affordable housing
- Local-serving retail projects with areas of 100,000 square feet and below
- Projects located in a High-Quality Transit Area (HQTA) as defined on page 8 of the City's Transportation Impact Analysis Guidelines
- Project located in low VMT area

The Project does not qualify for the screening criteria; therefore, shall be evaluated per Guidelines thresholds. The significance thresholds and specific VMT metrics are described on page 10 of the City's Transportation Impact Analysis Guidelines. Per the City's Transportation Impact Analysis Guidelines, the residential land use impact threshold is 14.1 VMT per capita. The Project will generate 48.5 VMT per capita which is greater than the threshold of 14.1 VMT per capita; therefore, the Project would create a significant transportation impact. Feasible mitigation measures must be identified to avoid or substantially reduce a significant impact under CEQA. Mitigation of VMT impacts typically requires changes in habits and behaviors of residents. Project design features that encourage mode shift from automobiles to transit or nonmotorized modes can potentially reduce project specific VMT. The potential VMT reduction was estimated using the California Air Pollution Control Officers Association's (CAPCOA) "Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity – Designed for Local Governments, Communities, and Project Developers" dated December 2021.

Although the Project would create a significant transportation impact, the project is consistent with the City's General Plan. During preparation of the 2014 General Plan Circulation Element Update, a Supplemental Environmental Impact Report was prepared, along with a statement of Overriding consideration, that discussed the potential environmental impacts and required mitigation measures to be implemented/followed by all future projects that are consistent with the General Plan. The project will be conditioned to implement and follow these measures.

The City adopted a Supplemental Environmental Impact Report (SEIR) for the 2014 General Plan Circulation Element Update on October 17, 2022. The SEIR evaluated potential land uses consistent with the General Plan and their associated VMT impacts. The SEIR finds that implementation of the 2014 General Plan may result in VMT metrics that are greater than the applicable thresholds. Mitigation measures include policies to reduce VMT. Because the City cannot demonstrate that the implementation of these policies would achieve VMT reductions to meet the VMT thresholds, the impacts would remain significant and unavoidable. Therefore, following approval of the SEIR, individual land use development projects that are consistent with the 2014 General Plan have the opportunity to tier their environmental review from the General Plan SEIR pursuant to section 15152 of the CEQA Guidelines. The SEIR has disclosed the VMT impacts of land use development consistent with the General Plan. Therefore, significant, and unavoidable VMT impacts associated with the General Plan have already been disclosed. Because the proposed Project is consistent with the 2014 General Plan, the Project's significant transportation impact does not require the preparation of a project specific EIR. Although the Project, has been determined to be consistent with the 2014 General Plan and is tiering from the SEIR, it would remain a **significant and unavoidable impact**.

11 Transportation Impact Analysis, JLB Traffic Engineering, Inc., April 17, 2024, page 6.

c) *Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?*

**Less-Than-Significant Impact.** The Project would result in a significant impact if it would include features that would create a hazard such as a sharp curve in a new roadway or create a blind corner or result in sight distance issues from entryways. Through the entitlement process, the Project would undergo review by multiple City divisions, such as Planning and Engineering, to ensure that the site layout conforms to existing regulations, such as the CMC, and other applicable codes, such as the fire code and building code. During this review, the Project would need to make the necessary corrections to ensure that no hazardous design features would result from the Project. Further, the main roadway network (N. Minnewawa, E. Perrin and N. Clovis Avenues) will be constructed to City roadway standards. Therefore, because the Project would undergo site plan and design review to ensure consistency and adherence to applicable design and site layout guidelines, a **less-than-significant** impact would occur, and no mitigation measures are required.

d) *Would the project result in inadequate emergency access?*

**Less-Than-Significant Impact.** The Project would include two (2) ingress/egress access points to the proposed development, one (1) from N. Minnewawa Avenue and one (1) from E. Perrin Avenue. As part of the Project review, the Clovis Fire Department would review all plans to ensure adequate emergency access is provided. This review includes review for adequate roadway widths, turning radii, as well as adequate access to units and accessibility to water. Consequently, because the Project plans would be required by the CMC to be reviewed and approved by Clovis Fire Department and Police Department prior to construction, this impact would be **less-than-significant** and no mitigation measures are required.

**18. TRIBAL CULTURAL RESOURCES**

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)? | | | | X |
| b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Section 5024.1 for the purposes of this paragraph, the lead agency shall consider the significance of the resource to a California Native American Tribe? | | X | | |

**ENVIRONMENTAL SETTING**

On September 25, 2014, Governor Jerry Brown signed Assembly Bill (AB52), which intends to protect a new class of recourse under CEQA. This new class is Tribal Cultural Resources and provides an avenue to identify Tribal Cultural resources through a consultation process. AB52 applies to all projects where a Notice of

Determination is filed. Furthermore, the consultation process is required to be complete prior to filing a Notice of Intent.

City staff conducted Native American Consultation in compliance with AB52. In compliance with AB52, invitations for consultation were mailed on July 2, 2024, which affords Native tribes thirty (30) days to respond and to request consultation. During this timeframe, no requests for consultations were received. The Cultural Study prepared by Peak & Associates Inc. dated December 2023 included a records search from the CHRIS SSJVIC and no tribal resources were found.

**DISCUSSION**

a) *Would the project cause a substantial adverse change to a listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?*

**No Impact.** See discussion under Section 5a.

b) *Would the project cause a substantial adverse change to a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Section 5024.1 for the purposes of this paragraph, the lead agency shall consider the significance of the resource to a California Native American Tribe?*

**Less-Than-Significant Impact With Mitigation.** The Project site is developed but would require trenching and ground-disturbing activities during construction for the installation of utility infrastructure needed to serve the Project. Although no cultural resources were identified at the site, the potential remains that cultural resources could be inadvertently discovered during ground-disturbing activities. However, implementation of Mitigation Measures TCR-1 and TCR-2 below would reduce potential significant impacts and ensure protection in the event of accidental discovery of any cultural resources. With Mitigation Measure TCR-1 and TCR-2, impacts would be **less-than-significant with mitigation**.

Mitigation Measure TCR-1: If cultural or archaeological materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, meeting the Secretary of the Interior's Professional Qualification Standards for prehistoric and historic archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.

If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.

If a potentially eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met.

Mitigation Measure TCR-2: If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code. The specific protocol, guidelines, and channels of communication outlined by the Native American Heritage Commission, in accordance with Section 7050.5 of the Health and Safety Code, Section 5097.98 of the Public Resources Code (Chapter 1492, Statutes of 1982, Senate Bill 297), and Senate Bill 447 (Chapter 44, Statutes of 1987), shall be followed. Section 7050.5(c) shall guide the potential Native American involvement, in the event of discovery of human remains, at the direction of the County coroner. All reports, correspondence, and determinations regarding the discovery of human remains on the project site shall be submitted to the Lead Agency.

**19. UTILITIES AND SERVICE SYSTEMS**

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects? | | | X | |
| b. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years? | | | X | |
| c. Result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments? | | | X | |
| d. Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals? | | | X | |
| e. Comply with federal, state, and local management reduction statutes and regulations related to solid waste? | | | X | |

**ENVIRONMENTAL SETTING**

The electricity and natural gas services in the City of Clovis are provided by PG&E. AT&T/SBC provides telephone service to the City.

The City's water supply sources include groundwater drawn from the Kings Sub-basin of the San Joaquin Valley Groundwater Basin and surface water from the FID. Surface water is treated at the City of Clovis Surface Water Treatment Facility.

The City of Clovis provides sewer collection service to its residents and businesses. Treatment of wastewater occurs at the Fresno-Clovis Regional Wastewater Treatment Plant (RWTP). The Fresno-Clovis RWTP is

operated and maintained by the City of Fresno and operates under a waste discharge requirement issued by the Central Valley Regional Water Quality Control Board. Additionally, the City has completed a 2.8 mgd wastewater treatment/water reuse facility, which will service the City's new growth areas.

The FMFCD has the responsibility for storm water management within the Fresno-Clovis metropolitan area of the Project site. Stormwater runoff that is generated by land development is controlled through a system of pipelines and storm drainage detention basins.

**DISCUSSION**

a) *Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?*

**Less-Than-Significant Impact.** The Project includes construction of 162 residential units. As mentioned above, the site is a use previously accounted for in the 2014 Clovis General Plan. Further, as part of the review process for the Project, the wastewater impacts will be evaluated by the City Engineer to ensure compliance with the City's Wastewater Master Plan, as well as FMFCD, so that the Project would not exceed wastewater treatment requirements such that a new facility would be required nor would the existing treatment facility need to be expanded. While the Project would introduce new units at this site, the type of development would be consistent with the land use designation and Zone District. Upon review and approval by the City Engineer, the Project would result in a **less-than-significant** impact. No mitigation measures are required.

b) *Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?*

**Less-Than-Significant Impact.** The Project is of the type of development previously accounted for the in 2014 Clovis General Plan. The Project will be primarily served through surface water and will be required to purchase water allocation rights through Fresno Irrigation District. Therefore, the Project is anticipated to be adequately served by City water. Further, the Project would comply with current Green Building Codes, as well as the water efficient landscape policies with regards to water conserving features. Lastly, the Project would be required to comply several water conserving policies, such as Policy 3.4 and 3.5 of the Open Space and Conservation Element. Overall, a **less-than-significant** impact would occur with no mitigation measures

c) *Would the project result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?*

**Less-Than-Significant Impact.** Because the Project is of the type previously planned and accounted for in the 2014 Clovis General Plan, it is not likely that the Project would result in a demand that would exceed the capacity of the wastewater treatment facility. Further, the Project is reviewed by the appropriate departments and agencies to ensure compliance and adequate capacity with regard to infrastructure, such as the ability to provide adequate wastewater treatment. Consequently, the impact would be **less than significant**. No mitigation measures are required.

d) *Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?*

**Less-Than-Significant Impact.** The Project would introduce new solid waste throughout construction and operation of the Project. However, the Project would be required to comply with Chapter 6.3.1, Recycling and Diversion of Construction and Demolition Debris, of the CMC during construction. This section of the CMC

requires that a minimum of fifty percent (50%) of waste tonnage from a project be diverted from disposal, and that all new residential (and commercial) construction within the City shall submit and obtain approval for a waste management plan prior to construction activities. Compliance with these measures would ensure that the Project does not result in a significant impact during the construction phase of the Project. Further, compliance with policies in the General Plan for the reduction and recycling of solid waste would serve to reduce impacts of solid waste by promoting and encouraging the recycling of materials. Lastly, according to the California Department of Resources Recycling and Recovery (CalRecycle), the City of Clovis has exceeded their target per resident disposal rate of 4.7 pounds per day per resident, meaning that Clovis residents are actually producing less solid waste than the target set by the State.[12] Consequently, a **less-than-significant** impact would occur. No mitigation measures are required.

e) *Would the project comply with federal, state, and local management reduction statutes and regulations related to solid waste?*

**Less-Than-Significant.** See discussion 19d above.

**20. WILDFIRE**

| **If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:** | **Potentially Significant Impact** | **Less Than Significant With Mitigation Incorporated** | **Less Than Significant Impact** | **No Impact** |
|---|---|---|---|---|
| a. Substantially impair an adopted emergency response plan or emergency evacuation plan? | | | X | |
| b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire? | | | X | |
| c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment? | | | X | |
| d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes? | | | X | |

**ENVIRONMENTAL SETTING**

The Project is situated on a primarily undeveloped site with three single-family residences, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities.

12 Calrecycle, City of Clovis, https://www2.calrecycle.ca.gov/LGCentral/DiversionProgram/JurisdictionDiversionPost2006, accessed September 30, 2024.

**DISCUSSION**

a) *Would the project substantially impair an adopted emergency response plan or emergency evacuation plan?*

**Less-Than-Significant Impact.** The Project is located on a primarily undeveloped site with three single-family residences, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities. The Project will be required to improve N. Minnewawa and E. Perrin Avenues to City Standards. Additionally, the N. Clovis Alignment must be constructed as part of the Project. Although the Project could result in temporary traffic detouring or closures during buildout, these delays would be temporary and would be coordinated with the City Engineering Division and other departments to ensure safe access to and from the area is maintained. Further, the site itself would be reviewed by City departments to ensure adequate site access and circulation is provided in the event of an emergency. Overall, a **less-than-significant** impact would occur with no mitigation measures.

b) *Would the project, due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?*

**Less-Than-Significant Impact.** The general vicinity of the site is flat, therefore, is not of the type of topography nor in a location likely to exacerbate wildfire risks. Additionally, the Project site is located in an area mapped by CAL FIRE as “unzoned” per the Fire Hazard Severity Zone Viewer, indicating the area is not located in an area within State Responsibility Areas into Fire Hazard Severity Zones. Further, the Project would be required to comply with the latest fire codes and would be required to include sprinklers on the interior of the homes and require installation of several hydrants throughout the site. Lastly, the site plans would undergo review by the Clovis Fire Department to ensure that all fire safety regulations are met. Therefore, a **less-than-significant** impact would occur with no mitigation measures.

c) *Would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?*

**Less-Than-Significant Impact.** As a new development, installation of a private roadway network, water lines, and power lines would be required; however, these utilities and infrastructure are typical of residential development and would be constructed to standards of the respective agencies and departments which oversee them, as well as be required to comply all necessary plan review and permitting requirements of such departments and agencies. As such, a **less-than-significant** impact would occur. No mitigation measures are required.

d) *Would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?*

**Less-Than-Significant Impact.** The City of Clovis has generally flat topography, and the site itself is in an area that is not in close proximity to hillsides that would expose people or structures to significant risks associates with downstream flooding or landslides as a result of runoff or post-fire slope instability. As such, a **less-than-significant** impact would occur.

**21. MANDATORY FINDINGS OF SIGNIFICANCE**

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation | Less Than Significant Impact | No Impact |
|---|---|---|---|---|

| | | Incorporated | | |
|---|---|---|---|---|
| a. Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory? | | | X | |
| b. Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)? | | | X | |
| c. Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly? | | | X | |

**ENVIRONMENTAL SETTING**

The Project is located on a primarily undeveloped site with three single-family residences, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities.

**DISCUSSION**

a) *Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?*

**Less-Than-Significant Impact.** As discussed throughout the Initial Study, the Project would result in a significant and unavoidable VMT impact. However, during preparation of the General Plan, an EIR was prepared, along with a Statement of Overriding Consideration, that discussed the potential environmental impacts and required mitigation measures to be implemented/followed by all future projects that are consistent with the General Plan. Therefore, though the proposed project would have a significant and unavoidable transportation impact under CEQA, no further mitigation measure would be required for the project related to VMT. The proposed project would be conditioned to implement and follow mitigation measures prescribed above. Therefore, the Project would have a **less-than-significant** impact as it would not substantially degrade the quality of the environment.

b) *Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when*

*viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?*

**Less-Than-Significant Impact.** The Project includes mitigation measures in certain topic areas identified throughout this Initial Study, which would reduce potential impacts to a less-than-significant level. None of these impacts would be cumulatively considerable since most are either temporary impacts from construction or site specific. With the exception of VMT, the Project was found to have a less-than-significant impact as discussed in this Initial Study. As such, this Project would be required to comply with those same regulations, ensuring adequate mitigation as development occurs. Lastly, while the Project would introduce 162 new residential units to an existing vacant site, the type of use was previously accounted for in the 2014 Clovis General Plan buildout. Thus, a **less-than-significant** impact would occur with no mitigation measures.

c) *Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?*

**Less-Than-Significant Impact.** As discussed throughout the document, the Project would not result in an impact that could not be mitigated to a less-than-significant level. Therefore, a **less-than-significant** impact would occur. No migration measures are required.

## I. Report Preparation

**LEAD AGENCY**

***Marissa Jensen, MA***
Assistant Planner
City of Clovis
Planning & Development Services

**TECHNICAL STUDIES**

***Air Quality and Greenhouse Gas Emissions Technical Memorandum***
Bonadelle TM6467
Johnson, Johnson and Miller Air Quality Consulting Services

***Biological Resources Assessment***
TM6467 Perrin Avenue at Minnewawa Ave. Clovis, CA
Argonaut Ecological Consulting, Inc.

***Cultural Resource Assessment***
Tentative Map 6467 Project
Melinda A. Peak
Peak & Associates, Inc.

***Traffic Impact Analysis Report***
Clovis and Perrin Subdivision
JLB Traffic Engineering, Inc.

***Vehicle Miles Traveled Analysis***
Clovis and Perrin Subdivision
JLB Traffic Engineering, Inc

**MITIGATION MONITORING AND REPORTING PROGRAM**
**TM6467**

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| ***Air Quality*** | | | | |
| AIR-1 | Before a construction permit is issued for the proposed project, the project applicant, project sponsor, or construction contractor shall submit documentation demonstrating reasonably detailed compliance with the following requirements to the City of Clovis:<br><br>(1) Where portable diesel engines are used during construction, all off-road equipment with engines greater than 50 horsepower shall have engines that meet or exceed either United States Environmental Protection Agency (EPA) or California Air Resources Board (CARB) Tier 4 Interim off-road emission standards or be equipped with Level 3 diesel particulate filters. Tier 4 Interim engines shall, at a minimum, meet EPA or CARB particulate matter emissions standards for Tier 4 Interim engines. Alternatively, use of CARB-certified Level 3 diesel particulate filters on off-road equipment with engines greater than 50 horsepower can be used in lieu of Tier 4 Interim engines or in combination with Tier 4 Interim or better engines. The construction contractor shall maintain records documenting its efforts to comply with this requirement, including equipment lists. Off-road equipment descriptions and information shall include, but are not limited to, | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | equipment type, equipment manufacturer, equipment identification number, engine model year, engine certification (Tier rating), horsepower, and engine serial number. The project applicant and/or construction contractor shall submit the construction operations plan and records of compliance to the City of Clovis. | | | |
| ***Biological Resources*** | | | | |
| BIO-1 | If ground disturbance (including grading, grubbing, home demolition, tree removal, or construction equipment and materials mobilization) is initiated during the nesting season (February 1 – August 31), a pre-construction survey for potential nesting raptors, migratory birds, and burrowing is recommended. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| ***Cultural Resources*** | | | | |
| CULT-1 | If archaeological or tribal resources or materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants. | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.<br><br>If a potentially-eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met. | | | |
| CULT-2 | If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code and Project shall follow the procedures and protocols set for un CEQA Guidelines Section 15064.4(e)(1). If human remains are identified to be those of Native American, California Health and Safety Code 7050.5 requires the County coroner notify the NAHC within 24 hours of discovery. All reports, correspondence, and determinations regarding the discovery of human | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | remains on the project site shall be submitted to the Lead Agency. | | | |
| ***Geological Resources*** | | | | |
| GEO-1 | If prehistoric or historic-era cultural materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist and/or paleontologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.<br><br>If the qualified professional determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.<br><br>If a potentially-eligible resource is encountered, then the qualified professional archaeologist and/or paleontologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met. | | | |
| ***Greenhouse Gas Emissions*** | | | | |
| GHG-1 | In order to meet the 2022 Scoping Plan GHG requirements, consistent with State GHG reduction and equity prioritization goals, each residential unit shall provide electric vehicle charging capabilities as part of the final project designs. | City of Clovis Planning | *Prior to Permits and During Construction* | |
| ***Tribal Cultural Resources*** | | | | |
| TCR-1 | If archaeological or tribal resources or materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.<br><br>If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These | City of Clovis Planning | *Prior to Permits and During Construction* | |

| Proposed Mitigation | Summary of Measure | Monitoring Responsibility | Timing | Verification (Date and Initials) |
|---|---|---|---|---|
| | additional studies may include avoidance, testing, and evaluation or data recovery excavation.<br><br>If a potentially-eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met. | | | |
| TCR-2 | If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code and Project shall follow the procedures and protocols set for un CEQA Guidelines Section 15064.4(e)(1). If human remains are identified to be those of Native American, California Health and Safety Code 7050.5 requires the County coroner notify the NAHC within 24 hours of discovery. All reports, correspondence, and determinations regarding the discovery of human remains on the project site shall be submitted to the Lead Agency. | City of Clovis Planning | *Prior to Permits and During Construction* | |

To: John A. Bonadelle
Director of Operations
Bonadelle Homes
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Fresno, CA 93711
(559) 435-9700
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From: Johnson Johnson and Miller Air Quality Consulting Services
Richard Miller, Air Quality and Climate Change Specialist
rmiller.jjm.environmental@gmail.com

**Bonadelle TM6467 Project—Clovis, California**

**Date: December 27, 2023**

**Subject: Air Quality/Greenhouse Gas Emissions Technical Memorandum**

This Air Quality/Greenhouse Gas Emissions Technical Memorandum was prepared to evaluate whether the estimated criteria air pollutant, ozone precursor, toxic air contaminant (TAC), and/or greenhouse gas (GHG) emissions generated from construction and/or operation of the TM6467 Residential Development Project would cause significant impacts to air resources in the project area. The respective analyses were conducted within the context of the California Environmental Quality Act (CEQA) (California Public Resources Code [PRC] § 21000, et seq.). The methodology follows the Guidance for Assessing and Mitigating Air Quality Impacts (GAMAQI) prepared by the San Joaquin Valley Air Pollution Control District (SJVAPCD) for the quantification of emissions and evaluation of potential impacts to air resources[1] and the SJVAPCD's Guidance for Valley Land-Use Agencies in Addressing GHG Emission Impacts for New Projects under the California Environmental Quality Act.[2]

## Project Location and Description

The TM6467 Bonadelle Homes Residential Development Project (project or proposed project) consists of the construction and development of 162 single-family residential homes and two (2) parks on approximately 14.57 gross acres in Fresno County, California. The project site is currently in unincorporated Fresno County and will be annexed into the City of Clovis. The project site is located southeast of the intersection of E. Perrin Avenue and N. Minnewawa Avenue. The Assessor's Parcel Numbers (APNs) associated with the project site include: 556030045, 556030065, 556030085 and 556030095.

The project is anticipated to start in November 2024 and be developed in a single phase. Lot development is expected to be completed by November 2025, while vertical construction of homes expected to last until 2028.

An aerial view of the project site is shown in Figure 1 and in Attachment A. The project site plan is included as part of Attachment A.

[1] San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed December 6, 2023.

[2] San Joaquin Valley Air Pollution Control District (SJVAPCD). 2009. Guidance for Valley Land-use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA. December 17. Website: https://www.valleyair.org/Programs/CCAP/12-17-09/3%20CCAP%20-%20FINAL%20LU%20Guidance%20-%20Dec%2017%202009.pdf. Accessed December 6, 2023.Th




**Figure 1 – Bonadelle TM6467 Project Vicinity Map**

### Summary of Analysis Results

The following is a summary of the analysis results. As shown below, the proposed project would result in less than significant impacts to air quality and GHG resources. Mitigation is required during the construction period to reduce Impact AIR-3.

**Impact AIR-1:** The proposed project would not conflict with or obstruct implementation of the applicable air quality plan. **Less than significant impact.**

**Impact AIR-2:** The proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions, which exceed quantitative thresholds for ozone precursors)? **Less than significant impact.**

**Impact AIR-3:** The proposed project would not expose sensitive receptors to substantial pollutant concentrations. **Less than significant impact with incorporation of mitigation.**

**Impact AIR-4:** The proposed project would not create objectionable odors affecting a substantial number of people. **Less than significant impact.**

**Impact GHG-1:** The proposed project would not generate direct or indirect greenhouse gas emissions that would result in a significant impact on the environment. **Less than significant impact.**

**Impact GHG-2:** The proposed project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases. **Less than significant impact**.

### Mitigation Measures

Air Quality Mitigation Measures

MM AIR-1 is required to reduce the project's potential impacts during construction to less than significant (see Impact AIR-3).

**MM AIR-1** Before a construction permit is issued for the proposed project, the project applicant, project sponsor, or construction contractor shall submit documentation demonstrating reasonably detailed compliance with the following requirements to the City of Clovis:

(1) Where portable diesel engines are used during construction, all off-road equipment with engines greater than 50 horsepower shall have engines that meet or exceed either United States Environmental Protection Agency (EPA) or California Air Resources Board (CARB) Tier 4 Interim off-road emission standards or be equipped with Level 3 diesel particulate filters. Tier 4 Interim engines shall, at a minimum, meet EPA or CARB particulate matter emissions standards for Tier 4 Interim engines. Alternatively, use of CARB-certified Level 3 diesel particulate filters on off-road equipment with engines greater than 50 horsepower can be used in lieu of Tier 4 Interim engines or in combination with Tier 4 Interim or better engines. The construction contractor shall maintain records documenting its efforts to comply with this requirement, including equipment lists. Off-road equipment descriptions and information shall include, but are not limited to, equipment type, equipment manufacturer, equipment identification number, engine model year, engine certification (Tier rating), horsepower, and engine serial number. The project applicant and/or construction contractor shall submit the construction operations plan and records of compliance to the City of Clovis.

Greenhouse Gas Emissions Mitigation Measures

No mitigation is required.

### Modeling Parameters and Assumptions

The following modeling parameters and assumptions were used to generate criteria air pollutant (including precursors), Toxic Air Contaminants (TACs), and greenhouse gas (GHG) emissions for the proposed project.

## Air Pollutants and GHGs Assessed

*Criteria Pollutants Assessed*

The following criteria air pollutants were assessed in this analysis: reactive organic gases (ROG), oxides of nitrogen ($NO_X$), carbon monoxide (CO), sulfur oxides ($SO_X$), particulate matter less than 10 microns in diameter ($PM_{10}$), and particulate matter less than 2.5 microns in diameter ($PM_{2.5}$).

Note that the proposed project would emit ozone precursors ROG and $NO_X$. However, the proposed project would not directly emit ozone since it is formed in the atmosphere during the photochemical reaction of ozone precursors.

The residential and park project does not contain sources that would produce substantial quantities of $SO_X$ emissions during construction or operation. Modeling conducted for the project is provided in Attachment A and includes $SO_2$ emission estimates. No further analysis of $SO_2$ is required.

*GHGs Assessed*

This analysis was restricted to GHGs identified by AB 32, which include carbon dioxide ($CO_2$), methane ($CH_4$), nitrous oxide ($N_2O$), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride ($SF_6$), and nitrogen trifluoride ($NF_3$). The proposed project would generate a variety of GHGs, including several defined by AB 32 such as $CO_2$, $CH_4$, and $N_2O$.

Certain GHGs defined by AB 32 would not be emitted by the residential and park project. HFCs, PFCs, $SF_6$, and $NF_3$ are typically used in industrial applications, none of which would be used for typical residential operations. Therefore, it is not anticipated that the proposed project would emit those GHGs.

GHG emissions associated with the proposed project construction, as well as future operations were estimated using $CO_2$ equivalent ($CO_2e$) emissions as a proxy for all GHG emissions. Construction GHG emissions were amortized over the lifetime of the proposed project. In order to obtain the $CO_2e$, an individual GHG is multiplied by its Global Warming Potential (GWP). The GWP designates on a pound for pound basis the potency of the GHG compared to $CO_2$.

*Toxic Air Containments Assessed*

***Diesel particulate matter (DPM)***

Studies indicate that diesel particulate matter (DPM) poses the greatest health risk among airborne TACs. The California Air Resources Board (CARB) conducted a 10-year research program that demonstrated that DPM from diesel-fueled engines is a human carcinogen and that chronic (long-term) inhalation exposure to DPM poses a chronic long-term health risk.

DPM is part of a complex mixture that makes up diesel exhaust. Diesel exhaust is composed of two phases: gas and particle. The gas phase is composed of many of the urban hazardous air pollutants, such as acetaldehyde, acrolein, benzene, 1,3-butadiene, formaldehyde, and polycyclic aromatic hydrocarbons. The particle phase also has many different types of particles that can be classified by size or composition. The size of diesel particulates that are of greatest health concern are those that are in the categories of fine and ultra-fine particles. The composition of these fine and ultra-fine particles may be composed of elemental carbon with

adsorbed compounds such as organic compounds, sulfate, nitrate, metals, and other trace elements. Diesel exhaust is emitted from a broad range of diesel engines, such as the on-road diesel engines of trucks, buses, and cars, and off-road diesel engines that include locomotives, marine vessels, and heavy-duty equipment.[3]

For purposes of this analysis, DPM exhaust emissions are represented as particulate matter that is 10 micrometers in diameter and smaller ($PM_{10}$).

### *Asbestos*

Asbestos is a fibrous mineral that both naturally occurs in ultramafic rock (a rock type commonly found in California) and is used as a processed component of building materials. Because asbestos has been proven to cause a number of disabling and fatal diseases, such as asbestosis and lung cancer, it is strictly regulated either based on its natural widespread occurrence or in its use as a building material. In the initial Asbestos National Emission Standards for Hazardous Air Pollutants rule promulgated in 1973, a distinction was made between building materials that would readily release asbestos fibers when damaged or disturbed (friable) and those materials that were unlikely to result in significant fiber release (non-friable). The U.S. Environmental Protection Agency (EPA) has since determined that, when severely damaged, otherwise non-friable materials can release significant amounts of asbestos fibers. Asbestos has been banned from many building materials under the Toxic Substances Control Act, the Clean Air Act, and the Consumer Product Safety Act. Naturally occurring asbestos (NOA) is known to occur in many parts of California and is commonly associated with ultramafic or serpentinite rock.

## Model Selection

*Criteria Pollutants and GHG Emissions—Model Selection*

The California Emissions Estimator Model (CalEEMod) is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and greenhouse gas (GHG) emissions associated with both construction and operations from a variety of land use projects. CalEEMod quantifies direct emissions from construction and operation activities (including vehicle use), as well as indirect emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. Further, CalEEMod identifies mitigation measures to reduce criteria pollutant and GHG emissions along with calculating the benefits achieved from measures chosen by the user.

CalEEMod was developed for the California Air Pollution Control Officers Association (CAPCOA) in collaboration with the California Air Districts. Default data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) have been provided in the model to account for local requirements and conditions.

The project is located in the City of Clovis and within the San Joaquin Valley Air Basin. The modeling follows SJVAPCD guidance, where applicable, from its GAMAQI. The models used in this analysis are summarized as follows:

[3] California Air Resources Board (CARB). 2019. Overview: Diesel Exhaust and Health. Website: https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health. Accessed December 6, 2023.

- Construction emissions: CalEEMod, version 2022.1 (2022.1.1.21, released 12/05/2023)
- Operational emissions: CalEEMod, version 2022.1 (2022.1.1.21, released 12/05/2023)
- Operational TAC emissions: EMission FACtor (EMFAC) 2021
- Dispersion Model: American Meteorological Society/ Environmental Protection Agency Regulatory Model (AERMOD), version 22112
- Health Risk Metric Calculations: Hot Spots Analysis & Reporting Program 2 (HARP2)

Construction DPM emissions (represented as $PM_{10}$ exhaust) were estimated using CalEEMod version 2022.1. Emissions were estimated for the unmitigated scenario, which included compliance with dust control measures that would be required through compliance with existing regulations.

*Toxic Air Containments—Model Selection and Parameters*

An air dispersion model is a mathematical formulation used to estimate the air quality impacts at specific locations (receptors) surrounding a source of emissions given the rate of emissions and prevailing meteorological conditions. The air dispersion model applied in this assessment was the U.S. EPA AERMOD (version 22112) air dispersion model. Specifically, AERMOD was used to estimate levels of air emissions at sensitive receptor locations from potential sources of project-generated TACs during the construction period. The use of AERMOD provides a refined methodology for estimating construction impacts by utilizing long-term, measured representative meteorological data for the project site and a representative construction schedule.

The modeling analysis also considered the spatial distribution and elevation of each emitting source in relation to the sensitive receptors. Direction-dependent calculations were obtained by identifying the Universal Transverse Mercator (UTM) coordinates for each source location. Terrain elevations were obtained for the project site using the AERMAP model, the AERMOD terrain data pre-processor. The air dispersion model assessment used meteorological data from the Fresno Station (Station #93193). The meteorological data used was preprocessed for use with AERMOD by the SJVAPCD and included data for the years 2010 to 2014; all years were used in the assessment. To evaluate the proposed project's localized impacts at the point of maximum impact, all receptors were placed within the breathing zone at 1.2 meters above ground level.

For the construction period, construction emissions were assumed to be distributed over the project site with a working schedule of eight hours per day and five days per week. Emissions were adjusted by a factor of 4.2 to convert for use with a 24-hour-per-day, 365 day-per-year averaging period. To assess impacts during construction, project operations were assessed assuming a 24-hour-per-day, and seven day-per-week schedule. Detailed parameters and complete calculations are contained in Attachment B.

## Assumptions

*Construction Modeling Assumptions*

### *Schedule*

The proposed project would require various tasks including site preparation, grading, building construction, paving, and architectural coating (painting). Table 1 shows the construction schedule used to estimate emissions for the purposes of assessing air quality impacts. The

construction schedule utilized in the analysis represents a "worst-case" analysis scenario since emission factors for construction equipment decrease as the analysis year increases, due to improvements in technology and more stringent regulatory requirements. Therefore, construction emissions would be similar or decrease if the construction schedule moved to later years or is phased over multiple years. The duration of construction activity and associated equipment represent a reasonable approximation of the expected construction fleet as required per CEQA guidelines. The site-specific construction fleet may vary due to specific project needs at the time of construction.

**Table 1: Project Construction Schedule**

| Construction Task | Start Date | End Date | Number of Days per Week | Number of Workdays per Phase |
|---|---|---|---|---|
| Demolition | 11/1/2024 | 11/29/2024 | 5 | 20 |
| Site Preparation | 11/30/2024 | 12/14/2024 | 5 | 10 |
| Grading | 12/15/2024 | 1/26/2025 | 5 | 30 |
| Paving | 1/27/2025 | 2/21/2025 | 5 | 20 |
| Trenching/Utilities | 2/22/2025 | 10/03/2025 | 5 | 160 |
| Building Construction | 10/04/2025 | 1/21/2028 | 5 | 600 |
| Architectural Coating | 1/22/2028 | 2/18/2028 | 5 | 20 |
| Source: Modeling Assumptions and CalEEMod Output Files (Attachment A). | | | | |

### *Equipment*

The off-road equipment fleet assumptions for construction were generated using default values from CalEEMod. CalEEMod generates construction fleets for construction activities based on the size of the construction areas. Construction equipment for each construction activity is shown in Table 2.

**Table 2: Project Construction Equipment**

| Construction Task | Equipment Type | Pieces of Equipment | Usage (hours/day) | Horsepower | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|
| Demolition | Rubber Tired Dozers | 2 | 8 | 367 | 0.40 | Diesel |
| | Excavators | 3 | 8 | 36 | 0.38 | Diesel |
| | Concrete/Industrial Saws | 1 | 8 | 33 | 0.73 | Diesel |
| Site Preparation | Rubber Tired Dozers | 3 | 8 | 367 | 0.40 | Diesel |
| | Tractors/Loaders/Backhoes | 4 | 8 | 84 | 0.37 | Diesel |
| Grading | Graders | 1 | 8 | 148 | 0.41 | Diesel |
| | Excavators | 2 | 8 | 36 | 0.38 | Diesel |
| | Tractors/Loaders/Backhoes | 2 | 8 | 84 | 0.37 | Diesel |
| | Scrapers | 2 | 8 | 423 | 0.48 | Diesel |
| | Rubber Tired Dozers | 1 | 8 | 367 | 0.40 | Diesel |
| Paving | Pavers | 2 | 8 | 81 | 0.42 | Diesel |

| Construction Task | Equipment Type | Pieces of Equipment | Usage (hours/day) | Horsepower | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|
| | Paving Equipment | 2 | 8 | 89 | 0.36 | Diesel |
| | Rollers | 2 | 8 | 36 | 0.38 | Diesel |
| Trenching/Utilities[1] | Tractors/Loaders/Backhoes | 2 | 8 | 84 | 0.37 | Diesel |
| | Trenchers | 1 | 8 | 40 | 0.50 | Diesel |
| | Rubber Tired Dozers | 1 | 8 | 367 | 0.40 | Diesel |
| Building Construction | Forklifts | 3 | 8 | 82 | 0.20 | Diesel |
| | Generator Sets | 1 | 8 | 14 | 0.74 | Diesel |
| | Cranes[2] | 1 | 3.5 | 367 | 0.29 | Diesel |
| | Welders | 1 | 8 | 46 | 0.45 | Diesel |
| | Tractors/Loaders/Backhoes | 3 | 7 | 84 | 0.37 | Diesel |
| Architectural Coating | Air Compressors | 1 | 6 | 37 | 0.48 | Diesel |

Notes:
[1] Equipment added to the Trenching/Utilities phase, as this phase was not generated as a CalEEMod-default phase. The Trenching/Utilities phase was added to reflect the applicant-provided construction schedule.
[2] The crane usage hours were adjusted to retain default HP hours, as the duration for the building construction phase was doubled to reflect the applicant-provided construction schedule.
Source: Modeling Assumptions and CalEEMod Output Files (Attachment A).

### *Vehicles Trips*

Table 3 provides a summary of the construction-related vehicle trips. CalEEMod default values were used to estimate the number of construction-related vehicle trips and were supplemented with additional purpose-based trips to avoid underestimating emissions from on-road vehicles anticipated during the construction period.

The default values for hauling trips are based on the assumption that a truck can haul 20 tons (or 16 cubic yards) of material per load. If one load of material is delivered, CalEEMod assumes that one haul truck importing material will also have a return trip with an empty truck (e.g., 2 one-way trips).

The fleet mix for worker trips is light-duty passenger vehicles to light-duty trucks. The vendor trips fleet mix is composed of a mixture of medium and heavy-duty diesel trucks. The hauling trips were assumed to be 100 percent heavy-duty diesel truck trips. CalEEMod default trip lengths for a project in Fresno County were used for the worker (7.7 miles), vendor (4 miles), and hauling (20 miles) trips.

**Table 3: Construction Vehicle Trips**

| Construction Task | Worker Trips per Day | Vendor Trips per Day | Haul Trips per Day |
|---|---|---|---|
| Demolition | 15 | 4 | 0.95 |
| Site Preparation | 17.5 | 4 | 0 |
| Grading | 20 | 4 | 20.83 |
| Paving | 15 | 4 | 0 |
| Trenching/Utilities | 10 | 4 | 0 |

| | | | |
|---|---|---|---|
| Building Construction | 58.32 | 17.32 | 0 |
| Architectural Coating | 11.664 | 4 | 0 |

Notes:
Vendor trips were added to the demolition, site preparation, grading, paving, trenching/utilities, and architectural coating to account for delivery of materials.
Demolition: The existing houses and structures were measured using Google Earth and input into CalEEMod to be demolished.
Cut and fill estimates: Based on applicant-provided information, cut and fill is expected to balance on-site. 2,500 cubic yards of fill estimated to be imported and 2,500 cubic yards to be exported during the grading phase to provide a conservative estimate of emissions.
CalEEMod default trips account for miscellaneous trips in the building construction phases, which were retained in the modeling.
Source: Modeling Assumptions and CalEEMod Output Files (Attachment A).

## Operational Modeling Assumptions

Operational emissions are those emissions that occur during operation of the proposed project. The sources are summarized below.

### *Motor Vehicles*

Motor vehicle emissions refer to exhaust and road dust emissions from the automobiles that would travel to and from the proposed project site during project operations. Assumptions were based on the ITE Trip Generation Manual, 11th Edition for the ITE Land Use 210 – Single-family detached housing. The trip generation rates used to estimate air pollutant and GHG emissions associated with the project are shown in Table 4.

**Table 4: Trip Generation Rates Used to Estimate Emissions**

| Land Use Type | Units | Weekday | Saturday | Sunday |
|---|---|---|---|---|
| **Daily Trip Rates** | | | | |
| Single-Family Housing (210) | DU | 9.43 trips/DU | 9.48 trips/DU | 8.48 trips/DU |
| **Daily Trips** | | | | |
| Project | 162 DU | 1,527.66 | 1,535.76 | 1,373.76 |

Notes: DU = dwelling units
Source of Trip Rates: Institute of Transportation Engineers (ITE), Trip generation Manual 11th Edition, with ITE code in parentheses.

*Trip Lengths*

The CalEEMod default trip lengths for development in Fresno County were used in this analysis. Trip lengths are for primary trips. Trip purposes are primary, diverted, and pass-by trips. Diverted trips take a slightly different path than a primary trip. The CalEEMod defaults for percentages of primary, diverted, and pass-by trips were used in the analysis.

*Vehicle Fleet Mix*

The vehicle fleet mix is defined as the mix of motor vehicle classes active during the operation of the proposed project. Emission factors are assigned to the expected vehicle mix as a function of vehicle class, speed, and fuel use (gasoline- and diesel-powered vehicles). The vehicle fleet mix for the single-family homes was revised to reflect the residential fleet mix approved by SJVAPCD for each year analyzed. The CalEEMod default fleet mix was retained for the park land use.

### *Area Sources*

*Consumer Products*

Consumer products are various solvents used in non-industrial applications, which emit VOCs during their product use. “Consumer Product” means a chemically formulated product used by household and institutional consumers, including but not limited to: detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products. It does not include other paint products, furniture coatings, or architectural coatings. CalEEMod includes default consumer product use rates based on building square footage. The default emission factors developed for CalEEMod were used for consumer products were used.

*Architectural Coatings (Painting)*

Paints release VOC emissions. The single-family homes included as part of the proposed project would be repainted on occasion. CalEEMod defaults were used for this purpose.

*Landscaping Emissions*

CalEEMod estimates a total of 180 days for which landscaping equipment would be used to estimate potential emissions for the proposed project.

### *Indirect Emissions*

For GHG emissions, CalEEMod contains calculations to estimate indirect GHG emissions. Indirect emissions are emissions where the location of consumption or activity is different from where actual emissions are generated. For example, electricity would be consumed at the proposed project site; however, emissions associated with producing that electricity are generated off-site at a power plant. Since the electricity can vary greatly based on locations, the user should override these values if they have more specific information regarding their specific water supply and treatment.

*Energy Use*

The emissions associated with the building electricity and natural gas usage (non-hearth) were estimated based on the land use type and size.

The Renewables Portfolio Standard (RPS) took effect in 2020. The Renewable Electricity Standard requires that electricity providers include a minimum of 33 percent renewable energy in their portfolios by the year 2020. The utilities in California will be required to increase the use of renewable energy sources to 60 percent by 2030.

*Other Indirect Emissions (Water Use, Wastewater Use, and Solid Waste)*

CalEEMod includes calculations for indirect GHG emissions for electricity consumption, water consumption, and solid waste disposal. For water consumption, CalEEMod calculates embedded energy (e.g., treatment, conveyance, distribution) associated with providing each gallon of potable water to the project. For solid waste disposal, GHG emissions are associated with the disposal of solid waste generated by the proposed project into landfills. CalEEMod default data were used for inputs associated with solid waste.

# AIR QUALITY

## Environmental Setting

Air quality impacts are both local and regional. Regional and local air quality is impacted by topography, dominant airflows, atmospheric inversions, location, and season. The project is located in the City of Clovis, within Fresno County. The project site and Fresno County are in the San Joaquin Valley Air Basin (Air Basin or SJV Air Basin), which experiences some of the most challenging environmental conditions for air quality in the nation. The following section describes these conditions as they pertain to the Air Basin. The information in this section is primarily from the SJVAPCD's GAMAQI.[4]

***Topography***

The topography of a region is important for air quality because mountains can block airflow that would help disperse pollutants and can channel air from upwind areas that transports pollutants to downwind areas. The SJVAPCD covers the entirety of the SJV Air Basin. The Air Basin is generally shaped like a bowl. It is open in the north and is surrounded by mountain ranges on all other sides. The Sierra Nevada mountains are along the eastern boundary (8,000 to 14,000 feet in elevation), the Coast Ranges are along the western boundary (3,000 feet in elevation), and the Tehachapi Mountains are along the southern boundary (6,000 to 8,000 feet in elevation).

***Climate***

The climate is important for air quality because of differences in the atmosphere's ability to trap pollutants close to the ground, which creates adverse air quality; inversely, the atmosphere's ability to rapidly disperse pollutants over a wide area prevents high concentrations from accumulating under different climatic conditions. The SJV Air Basin has an "inland Mediterranean" climate and is characterized by long, hot, dry summers and short, foggy winters. Sunlight can be a catalyst in the formation of some air pollutants (such as ozone); the SJV Air Basin averages over 260 sunny days per year.

Inversion layers are significant in determining pollutant concentrations. Concentration levels can be related to the amount of mixing space below the inversion. Temperature inversions that occur on the summer days are usually encountered 2,000 to 2,500 feet above the valley floor. In winter months, overnight inversions occur 500 to 1,500 feet above the valley floor.

Dominant airflows provide the driving mechanism for transport and dispersion of air pollution. The mountains surrounding the SJV Air Basin form natural horizontal barriers to the dispersion of air contaminants. The wind generally flows south-southeast through the valley, through the Tehachapi Pass and into the Mojave Desert Air Basin portion of Kern County. As the wind moves through the SJV Air Basin, it mixes with the air pollution generated locally, generally transporting air pollutants from the north to the south in the summer and in a reverse flow in the winter.

The winds and unstable air conditions experienced during the passage of winter storms result in periods of low pollutant concentrations and excellent visibility. Between winter storms, high

[4] San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed December 11, 2023.

pressure and light winds allow cold moist air to pool on the San Joaquin Valley floor. This creates strong, low-level temperature inversions and very stable air conditions, which can lead to Tule fog. Wintertime conditions favorable to fog formation are also conditions favorable to high concentrations of $PM_{2.5}$ and $PM_{10}$.

*Criteria Air Pollutants*

The Federal Clean Air Act (FCAA) establishes the framework for modern air pollution control. The FCAA, enacted in 1970 and amended in 1990, directs the U.S. EPA to establish ambient air quality standards. These standards are divided into primary and secondary standards. The primary standards are set to protect human health, and the secondary standards are set to protect environmental values, such as plant and animal life. The FCAA requires the EPA to set National Ambient Air Quality Standards for the six criteria air pollutants. These pollutants include particulate matter (PM), ground-level ozone, carbon monoxide (CO), sulfur oxides, nitrogen oxides, and lead.

*Toxic Air Contaminants*

A toxic air contaminant (TAC) is an air pollutant not included in the California Ambient Air Quality Standards, but TACs are considered hazardous to human health. Toxic air contaminants are defined by the California Air Resources Board (CARB) as those pollutants that, “may cause or contribute to an increase in deaths or in serious illness, or which may pose a present or potential hazard to human health.”

The health effects associated with TACs are generally assessed locally rather than regionally. Toxic air contaminants can cause long-term health effects such as cancer, birth defects, neurological damage, asthma, bronchitis, or genetic damage; TACs can also cause short-term acute effects such as eye watering, respiratory irritation, running nose, throat pain, and headaches. For evaluation purposes, TACs are separated into carcinogens and noncarcinogens. Carcinogens are assumed to have no safe threshold below which health impacts would not occur, and the cancer risk is expressed as excess cancer cases per one million exposed individuals (typically over a lifetime of exposure).

TACs of concern assessed in this analysis include asbestos and DPM.

*Sensitive Receptors*

Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved. Heightened sensitivity may be caused by health problems, proximity to the emissions source, and/or duration of exposure to air pollutants. Children, pregnant women, the elderly, and those with existing health problems are especially vulnerable to the effects of air pollution. Accordingly, land uses that are typically considered to be sensitive receptors include residences, schools, childcare centers, playgrounds, retirement homes, convalescent homes, hospitals, and medical clinics.

*Air Quality Standards*

The Clean Air Act requires states to develop a general plan to attain and maintain the standards in all areas of the country and a specific plan to attain the standards for each area designated nonattainment. These plans, known as State Implementation Plans or SIPs, are developed by state and local air quality management agencies and submitted to EPA for approval.

The SIP for the State of California is administered by the CARB, which has overall responsibility for statewide air quality maintenance and air pollution prevention. California's SIP incorporates individual federal attainment plans for each regional air district. SIPs are prepared by the regional air district and sent to CARB to be approved and incorporated into the California SIP. Federal attainment plans include the technical foundation for understanding air quality (e.g., emission inventories and air quality monitoring), control measures and strategies, and enforcement mechanisms.

The CARB also administers the California Ambient Air Quality Standards (CAAQS) for the 10 air pollutants designated in the California Clean Air Act. The 10 state air pollutants include the six federal criteria pollutant standards listed above as well as visibility-reducing particulates, hydrogen sulfide, sulfates, and vinyl chloride. The federal and state ambient air quality standards are summarized in Table 5.

**Table 5: California and National Ambient Air Quality Standards**

| Pollutant | Averaging Time | California Standards | National Standards | |
|---|---|---|---|---|
| | | Concentration | Primary | Secondary |
| Ozone | 1 Hour | 0.09 ppm (180 µg/m$^3$) | — | Same as Primary Standard |
| | 8 Hour | 0.070 ppm (137 µg/m$^3$) | 0.070ppm (137 µg/m$^3$) | |
| Respirable Particulate Matter | 24 Hour | 50 µg/m$^3$ | 150 µg/m3 | Same as Primary Standard |
| | Annual Arithmetic Mean | 20 µg/m$^3$ | — | |
| Fine Particulate Matter | 24 Hour | — | 35 µg/m$^3$ | Same as Primary Standard |
| | Annual Arithmetic Mean | 12 µg/m$^3$ | 12 µg/m$^3$ | |
| Carbon Monoxide | 1 Hour | 20 ppm (23 mg/m$^3$) | 35 ppm (40 mg/m$^3$) | — |
| | 8 Hour | 9.0 ppm (10 mg/m$^3$) | 9 ppm (10 mg/m$^3$) | — |
| | 8 Hour (Lake Tahoe) | 6 ppm (7 mg/m$^3$) | — | — |
| Nitrogen Dioxide | 1 Hour | 0.18 ppm (339 µg/m$^3$) | 100 ppb (188 µg/m$^3$) | — |
| | Annual Arithmetic Mean | 0.030 ppm (57 µg/m$^3$) | 0.053 ppm (100 µg/m$^3$) | Same as Primary Standard |
| Sulfur Dioxide | 1 Hour | 0.25 ppm (655 µg/m$^3$) | 75 ppb (196 µg/m$^3$) | — |
| | 3 Hour | — | — | 0.5 ppm (1300 µg/m$^3$) |
| | 24 Hour | 0.04 ppm (105 µg/m$^3$) | 0.14 ppm (for certain areas) | — |

| Pollutant | Averaging Time | California Standards | National Standards | |
|---|---|---|---|---|
| | | Concentration | Primary | Secondary |
| | Annual Arithmetic Mean | — | 0.030 ppm (for certain areas) | — |
| Lead | 30-Day Average | 1.5 µg/m$^3$ | — | — |
| | Calendar Quarter | — | 1.5 µg/m$^3$ | Same as Primary Standard |
| | Rolling 3-Month Average | — | 0.15 µg/m$^3$ | |
| Visibility-Reducing Particles | 8 Hour | See Footnote 1 | No National Standards | |
| Sulfates | 24 Hour | 25 µg/m$^3$ | | |
| Hydrogen Sulfide | 1 Hour | 0.03 ppm (42 µg/m$^3$) | | |
| Vinyl Chloride | 24 Hour | 0.01 ppm (26 µg/m$^3$) | | |

Notes:
1 - In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.
µg/m3 =micrograms per cubic meter
CARB = California Air Resources Board
mg/m3 = milligrams per cubic meter
ppm = parts per million
Source: California Air Resources Board (CARB). 2017. Air Quality Standards. Website: https://www.baaqmd.gov/about-air-quality/research-and-data/air-quality-standards-and-attainment-status. Accessed December 11, 2023.

Federal and state air quality laws require identification of areas not meeting the ambient air quality standards. These areas must develop regional air quality plans to eventually attain the standards. The SJV Air Basin is designated nonattainment for ozone, $PM_{10}$, and $PM_{2.5}$.[5]

*Thresholds of Significance*

### *Project-level Thresholds*

The CEQA Guidelines define a significant effect on the environment as “a substantial, or potentially substantial, adverse change in the environment.” To determine if a project would have a significant impact on air quality, the type, level, and impact of emissions generated by the proposed project must be evaluated.

This analysis uses the air quality significance thresholds contained in Appendix G of the CEQA Guidelines. A significant impact would occur if the proposed project would:

a) Conflict with or obstruct implementation of the applicable air quality plan.

[5] San Joaquin Valley Air Pollution Control District (SJVAPCD). 2017. Ambient Air Quality Standards & Valley Attainment Status. Website: https://www.valleyair.org/aqinfo/attainment.htm. Accessed December 11, 2023.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or State ambient air quality standard.

c) Expose sensitive receptors to substantial pollutant concentrations.

d) Create objectionable odors affecting a substantial number of people.

The City of Clovis has not established specific CEQA significance thresholds. Where available guidance provided by the applicable air district can be used to make significance determinations for the CEQA questions listed above. While the final determination of whether a project is significant is within the purview of the Lead Agency pursuant to Section 15064(b) of the CEQA Guidelines, the SJVAPCD recommends that its quantitative air pollution thresholds be used to determine the significance of project emissions in accordance with the Appendix G requirements. If a Lead Agency finds that a project has the potential to exceed these air pollution thresholds, according to the SJVAPCD, the project should be considered to have significant air quality impacts.

Air pollutant emissions have regional effects and localized effects. This analysis assesses the regional effects of the project's criteria pollutant emissions in comparison to SJVAPCD thresholds of significance for short-term construction activities and long-term operation of the project. Localized emissions from project construction and operation are also assessed using concentration-based thresholds that determine if the project would result in a localized exceedance of any ambient air quality standards or would make a cumulatively considerable contribution to an existing exceedance.

The primary pollutants of concern during project construction and operation are ROG, $NO_X$, $PM_{10}$, and $PM_{2.5}$. The SJVAPCD GAMAQI adopted in 2015 contains thresholds for ROG and $NO_X$; $SO_X$, CO, $PM_{10}$, and $PM_{2.5}$.

Ozone is a secondary pollutant that can be formed miles away from the source of emissions through reactions of ROG and $NO_X$ emissions in the presence of sunlight. Therefore, ROG and $NO_x$ are termed ozone precursors. The SJVAB often exceeds the state and national ozone standards. Therefore, if the project emits a substantial quantity of ozone precursors, the project may contribute to an exceedance of the ozone standard. The SJVAB also exceeds air quality standards for $PM_{10}$, and $PM_{2.5}$; therefore, substantial project emissions may contribute to an exceedance for these pollutants.

The SJVAPCD has adopted significance thresholds for construction-related and operational emissions. These thresholds will be identified and addressed in the appropriate section of this document.

Project construction would involve the use of diesel-fueled vehicles and equipment that emit DPM, which is considered a TAC. Once operational, some diesel-fueled vehicles would access the project site. The following project-specific health risk significance thresholds are applied in this analysis:

- Maximum Incremental Cancer Risk: >=20 in 1 million.
- Hazard Index (project increment) >=1.0.

## Fugitive Dust

*Construction*

Fugitive dust would be generated from site grading and other earth-moving activities. Most of this fugitive dust would remain localized and would be deposited near the project site. However, the potential for impacts from fugitive dust exists unless control measures are implemented to reduce the emissions from the project site. Therefore, adherence to Regulation VIII would be required during construction of the proposed project. Regulation VIII would require fugitive dust control measures that are consistent with best management practices (BMPs) established by the SJVAPCD to reduce the proposed project's construction-generated fugitive dust impacts to a less than significant level.

The SJVAPCD (SJVAPCD or District) adopted Regulation VIII in 1993 and its most recent amendments became effective on October 1, 2004. This is a basic summary of the regulation's requirements as they apply to construction sites. These regulations affect all workers at a regulated construction site, including everyone from the landowner to the subcontractors. Violations of Regulation VIII are subject to enforcement action including fines.[6]

**Visible Dust Emissions** may not exceed 20 percent opacity during periods when soil is being disturbed by equipment or by wind at any time. Visible Dust Emissions opacity of 20 percent means dust that would obstruct an observer's view of an object by 20 percent. District inspectors are state certified to evaluate visible emissions. Dust control may be achieved by applying water before/during earthwork and onto unpaved traffic areas, phasing work to limit dust, and setting up wind fences to limit windblown dust.

**Soil Stabilization** is required at regulated construction sites after normal working hours and on weekends and holidays. This requirement also applies to inactive construction areas such as phased projects where disturbed land is left unattended. Applying water to form a visible crust on the soil and restricting vehicle access are often effective for short-term stabilization of disturbed surface areas. Long-term methods including applying dust suppressants and establishing vegetative cover.

**Carryout and Trackout** occur when materials from emptied or loaded vehicles falls onto a paved surface or shoulder of a public road or when materials adhere to vehicle tires and are deposited onto a paved surface or shoulder of a public road. Should either occur, the material must be cleaned up at least daily, and immediately if it extends more than 50 feet from the exit point onto a paved road. The appropriate clean-up methods require the complete removal and cleanup of mud and dirt from the paved surface and shoulder. Using a blower device or dry sweeping with any mechanical device other than a PM10-efficient street sweeper is a violation. Larger construction sites, or sites with a high amount of traffic on one or more days, must prevent carryout and trackout from occurring by installing gravel pads, grizzlies, wheel washers, paved interior roads, or a combination thereof at each exit point from the site. In many cases, cleaning up trackout with water is also prohibited as it may lead to plugged storm drains. Prevention is the best method.

[6] San Joaquin Valley Air Pollution Control District (SJVAPCD). 2007. Compliance Assistance Bulletin. Website: http://www.valleyair.org/busind/comply/pm10/forms/RegVIIICAB.pdf. Accessed December 11, 2023.

**Unpaved Access and Haul Roads**, as well as unpaved vehicle and equipment traffic areas at construction sites must have dust control. Speed limit signs limiting vehicle speed to 15 mph or less at construction sites must be posted every 500 feet on uncontrolled and unpaved roads.

**Storage Piles and Bulk Materials** have handling, storage, and transportation requirements that include applying water when handling materials, wetting or covering stored materials, and installing wind barriers to limit visible dust emissions. Also, limiting vehicle speeds, loading haul trucks with a freeboard of six inches or greater along with applying water to the top of the load, and covering the cargo compartments are effective measures for reducing visible dust emissions and carryout from vehicles transporting bulk materials.

**Dust Control Plans** identify the dust sources and describe the dust control measures that will be implemented before, during, and after any dust generating activity for the duration of the project. Owners or operators are required to submit plans to the SJVAPCD at least 30 days prior to commencing the work for the following:

- Residential developments of ten or more acres of disturbed surface area.
- Non-residential developments of five or more acres of disturbed surface area.
- The relocation of more than 2,500 cubic yards per day of materials on at least three days.

Operations may not commence until the SJAVPCD has approved the Dust Control Plan. A copy of the plan must be on site and available to workers and District employees. All work on the site is subject to the requirements of the approved dust control plan. A failure to abide by the plan by anyone on site may be subject to enforcement action.

**Record Keeping** is required to document compliance with the rules and must be kept for each day any dust control measure is used. The SJVAPCD has developed record forms for water application, street sweeping, and “permanent” controls such as applying long term dust palliatives, vegetation, ground cover materials, paving, or other durable materials. Records must be kept for one year after the end of dust generating activities (Title V sources must keep records for five years).

**Exemptions** exist for several activities. Those occurring above 3,000 feet in elevation are exempt from all Regulation VIII requirements. Further, Rule 8021 – Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities exempts the following construction and earthmoving activities:

- Blasting activities permitted by California Division of Industrial Safety.
- Maintenance or remodeling of existing buildings provided the addition is less than 50% of the size of the existing building or less than 10,000 square feet (due to asbestos concerns, contact the SJVAPCD at least two weeks ahead of time).
- Additions to single family dwellings.
- The disking of weeds and vegetation for fire prevention on sites smaller than ½ acre.
- Spreading of daily landfill cover to preserve public health and safety and to comply with California Integrated Waste Management Board requirements.

**Nuisances** are prohibited at all times because District Rule 4102 – Nuisance applies to all construction sources of fugitive dust, whether or not they are exempt from Regulation VIII. It is

important to monitor dust-generating activities and implement appropriate dust control measures to limit the public's exposure to fugitive dust.

## Environmental Impact Analysis

This section discusses potential impacts related to air quality associated with the proposed project and provides mitigation measures where necessary.

### Impact AIR-1 Conflict with or obstruct implementation of the applicable air quality plan?

### Impact Analysis

The CEQA Guidelines indicate that a significant impact would occur if the project would conflict with or obstruct implementation of the applicable air quality plan. The GAMAQI indicates that projects that do not exceed SJVAPCD regional criteria pollutant emissions quantitative thresholds would not conflict with or obstruct the applicable air quality plan (AQP). An additional criterion regarding the project's implementation of control measures was assessed to provide further evidence of the project's consistency with current AQPs. This document proposes the following criteria for determining project consistency with the current AQPs:

1. Will the project result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the AQPs? This measure is determined by comparison to the regional thresholds identified by the District for Regional Air Pollutants.

2. Will the project comply with applicable control measures in the AQPs? The primary control measures applicable to development projects include Regulation VIII—Fugitive $PM_{10}$ Prohibitions and Rule 9510 Indirect Source Review.

*Contribution to Air Quality Violations*

A measure for determining if the project is consistent with the air quality plans is if the project would not result in an increase in the frequency or severity of existing air quality violations, cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the air quality plans. Regional air quality impacts and attainment of standards are the result of the cumulative impacts of all emission sources within the air basin. Individual projects are generally not large enough to contribute measurably to an existing violation of air quality standards. Therefore, the cumulative impact of the project is based on its cumulative contribution. Because of the region's nonattainment status for ozone, $PM_{2.5}$, and $PM_{10}$—if project-generated emissions of either of the ozone precursor pollutants (ROG and $NO_X$), $PM_{10}$, or $PM_{2.5}$ would exceed the SJVAPCD's significance thresholds—then the project would be considered to contribute to violations of the applicable standards and conflict with the attainment plans.

As shown in Table 6 and Table 7 under Impact AIR-2 below, the project's construction and operational regional emissions would not exceed SJVAPCD's regional criteria pollutant emissions quantitative thresholds. Therefore, the proposed project would not be considered in conflict with or obstruct implementation of the applicable air quality plan based on this criterion.

*Compliance with Applicable Control Measures*

SJVAPCD's AQPs contain a number of control measures, which are enforceable requirements through the adoption of rules and regulations. A description of rules and regulations that apply to this project is provided below.

> **SJVAPCD Rule 9510—Indirect Source Review (ISR)** is a control measure in the 2006 $PM_{10}$ Plan that requires $NO_X$ and $PM_{10}$ emission reductions from development projects in the San Joaquin Valley. The $NO_X$ emission reductions help reduce the secondary formation of $PM_{10}$ in the atmosphere (primarily ammonium nitrate and ammonium sulfate) and also reduce the formation of ozone. Reductions in directly emitted $PM_{10}$ reduce particles such as dust, soot, and aerosols. Rule 9510 is also a control measure in the 2016 Plan for the 2008 8-Hour Ozone Standard. Developers of projects subject to Rule 9510 must reduce emissions occurring during construction and operational phases through on-site measures or pay off-site mitigation fees. The proposed project would be subject to Rule 9510.
>
> **Regulation VIII—Fugitive** $PM_{10}$ **Prohibitions** is a control measure that is one main strategies from the 2006 $PM_{10}$ for reducing the $PM_{10}$ emissions that are part of fugitive dust. Residential projects over 10 acres and non-residential projects over 5 acres are required to file a Dust Control Plan (DCP) containing dust control practices sufficient to comply with Regulation VIII. The project will be required to comply with Regulation VIII and would implement dust control measures during the construction period.
>
> **Rule 2201—New and Modified Stationary Source Review Rule** requires the review of new and modified Stationary Sources of air pollution and to provide mechanisms including emission trade-offs by which Authorities to Construct such sources may be granted, without interfering with the attainment or maintenance of Ambient Air Quality Standards. Components of the project may be required to obtain permits and abide by associated regulations set forth by Rule 2201.

Other control measures that apply to the project are Rule 4641—Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operation that requires reductions in VOC emissions during paving and Rule 4601—Architectural Coatings that limits the VOC content of all types of paints and coatings sold in the San Joaquin Valley. These measures apply at the point of sale of the asphalt and the coatings, so project compliance is ensured without additional mitigation measures.

The project would comply with all applicable SJVAPCD rules and regulations. Therefore, the proposed project would not conflict with or obstruct implementation of the applicable air quality attainment plan under this criterion.

*Conclusion*

As described above, the proposed project's construction and operational regional emissions would not exceed SJVAPCD's regional criteria pollutant emissions quantitative thresholds. Furthermore, the proposed project would comply with all applicable SJVAPCD rules and regulations. Accordingly, the proposed project would not conflict with or obstruct implementation of the applicable air quality plans, and, therefore, this impact would be less than significant.

***Level of Significance Before Mitigation***
Less than significant.

***Mitigation Measures***
No mitigation measures are necessary.

**Impact AIR-2 Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or State ambient air quality standard?**

**Impact Analysis**

To result in a less than significant impact, the following criteria must be true:

1. Regional analysis: emissions of nonattainment pollutants must be below the SJVAPCD's regional significance thresholds. This is an approach recommended by the District in its GAMAQI.
2. Summary of projections: the project must be consistent with current air quality attainment plans including control measures and regulations. This is an approach consistent with Section 15130(b) of the CEQA Guidelines.
3. Cumulative health impacts: the project must result in less than significant cumulative health effects from the nonattainment pollutants. This approach correlates the significance of the regional analysis with health effects, consistent with the court decision, *Bakersfield Citizens for Local Control v. City of Bakersfield* (2004) 124 Cal.App.4$^{th}$ 1184, 1219-20.

*Regional Emissions*

Air pollutant emissions have both regional and localized effects. This analysis assesses the regional effects of the project's criteria pollutant emissions in comparison to SJVAPCD thresholds of significance for short-term construction activities and long-term operation of the project. Localized emissions from project construction and operation are assessed under Impact AIR-3—Sensitive Receptors using concentration-based thresholds that determine if the project would result in a localized exceedance of any ambient air quality standards or would make a cumulatively considerable contribution to an existing exceedance.

The primary pollutants of concern during project construction and operation are ROG, $NO_X$, $PM_{10}$, and $PM_{2.5}$. The SJVAPCD GAMAQI adopted in 2015 contains thresholds for CO, $NO_X$, ROG, $SO_X$, $PM_{10}$, and $PM_{2.5}$.

Ozone is a secondary pollutant that can be formed miles from the source of emissions, through reactions of ROG and $NO_X$ emissions in the presence of sunlight. Therefore, ROG and $NO_X$ are termed ozone precursors. The Air Basin often exceeds the state and national ozone standards. Therefore, if the project emits a substantial quantity of ozone precursors, the project may contribute to an exceedance of the ozone standard. The Air Basin also exceeds air quality standards for $PM_{10}$, and $PM_{2.5}$; therefore, substantial project emissions may contribute to an exceedance for these pollutants. The SJVAPCD's annual emission significance thresholds used for the project define the substantial contribution for both operational and construction emissions as follows:

- 100 tons per year CO
- 27 tons per year $SO_X$

- 10 tons per year $NO_X$
- 10 tons per year ROG
- 15 tons per year $PM_{10}$
- 15 tons per year $PM_{2.5}$

The project does not contain sources that would produce substantial quantities of $SO_2$ emissions during construction and operation. Modeling conducted for the project demonstrates that $SO_2$ emissions are well below the SJVAPCD GAMAQI thresholds, as shown in the modeling results contained in Attachment A. No further discussion of $SO_2$ is required.

***Construction Emissions***

Construction activities associated with development of the proposed project would include site preparation, grading, building construction, paving, and architectural coatings. Emissions from construction-related activities are generally short-term in duration but may still cause adverse air quality impacts. During construction, fugitive dust would be generated from earth-moving activities. Exhaust emissions would also be generated from off-road construction equipment and construction-related vehicle trips. Emissions associated with construction of the proposed project are discussed below.

Table 6 provides the construction emissions estimate for the proposed project. Please refer to the Modeling Parameters and Assumptions section of this technical memorandum for details regarding assumptions used to estimate construction emissions. The duration of construction activity and associated equipment represent a reasonable approximation of the expected construction fleet as required pursuant to CEQA guidelines.

**Table 6: Construction Regional Air Pollutant Annual Emissions (Unmitigated)**

| Parameter | Air Pollutants (ton/year) | | | | |
|---|---|---|---|---|---|
| | **ROG** | **$NO_X$** | **CO** | **$PM_{10}$** | **$PM_{2.5}$** |
| Project Construction (2024) | 0.068 | 0.653 | 0.581 | 0.097 | 0.055 |
| Project Construction (2025) | 0.197 | 1.686 | 1.864 | 0.149 | 0.086 |
| Project Construction (2026) | 0.148 | 1.157 | 1.754 | 0.113 | 0.052 |
| Project Construction (2027) | 0.141 | 1.104 | 1.734 | 0.108 | 0.048 |
| Project Construction (2028) | 1.033 | 0.070 | 0.114 | 0.009 | 0.003 |
| ***Total Project Construction Emissions (tons/year)*** | ***1.587*** | ***4.67*** | ***6.047*** | ***0.476*** | ***0.244*** |
| **Significance Threshold (tons/year)** | **10** | **10** | **100** | **15** | **15** |
| **Exceeds Significance Threshold?** | **No** | **No** | **No** | **No** | **No** |

Notes:
$PM_{10}$ and $PM_{2.5}$ emissions are from the mitigated output to reflect compliance with Regulation VIII—Fugitive $PM_{10}$ Prohibitions.
$NO_X$ = oxides of nitrogen
$PM_{10}$ = particulate matter 10 microns in diameter
$PM_{2.5}$ = particulate matter 2.5 microns in diameter
ROG = reactive organic gases
Source: Modeling Assumptions and CalEEMod Output Files (Attachment A).

As shown in Table 6, estimated emissions from construction of project are below the SJVAPCD significance thresholds. Therefore, the regional construction emissions would be less than significant on a project basis.

*Operational Emissions*

As previously discussed, the pollutants of concern include ROG, $NO_X$, CO, $PM_{10}$, and $PM_{2.5}$. Emissions were assessed for full buildout operations in the 2025 operational year. The 2025 operational year was chosen as it is the earliest year the project is anticipated to become operational. Emissions were estimated for full project buildout in the earliest operational year, thus generating the full amount of expected operational activity. The SJVAPCD Criteria Air Pollutant Significance thresholds were used to determine impacts. Operational annual emissions are shown in Table 7 below.

**Table 7: Operational Annual Emissions for Full Buildout (Unmitigated)**

| Emissions Source | Tons per Year | | | | |
|---|---|---|---|---|---|
| | **ROG** | **$NO_X$** | **CO** | **$PM_{10}$** | **$PM_{2.5}$** |
| Area | 1.42 | 0.06 | 0.85 | < 0.01 | < 0.01 |
| Energy Consumption | 0.02 | 0.29 | 0.12 | 0.02 | 0.02 |
| Mobile (On-road Vehicles) | 0.83 | 0.67 | 5.29 | 1.02 | 0.26 |
| **Total Project Annual Emissions** | **2.27** | **1.02** | **6.26** | **1.04** | **0.28** |
| **Thresholds of Significance** | **10** | **10** | **100** | **15** | **15** |
| **Exceeds Significance Threshold?** | **No** | **No** | **No** | **No** | **No** |

Notes:
$NO_X$ = oxides of nitrogen
$PM_{2.5}$ = particulate matter 2.5 microns or less in diameter
$PM_{10}$ = particulate matter 10 microns or less in diameter
ROG = reactive organic gases
Source: Modeling Assumptions and CalEEMod Output Files (Attachment A).

As shown in Table 7, the proposed project would not result in net operational-related air pollutants or precursors that would exceed the applicable thresholds of significance. Therefore, project operations would not be considered to have the potential to generate a significant quantity of air pollutants; long-term operational impacts associated with the project's criteria pollutant emissions would be less than significant.

### *Level of Significance Before Mitigation*

Less than significant.

### *Mitigation Measures*

No mitigation measures are necessary.

## Impact AIR-3 Expose sensitive receptors to substantial pollutant concentrations?

### Impact Analysis

Emissions occurring at or near the project have the potential to create a localized impact that could expose sensitive receptors to substantial pollutant concentrations. Sensitive receptors are considered land uses or other types of population groups that are more sensitive to air pollution than others due to their exposure. Sensitive population groups include children, the elderly, the acutely and chronically ill, and those with cardio-respiratory diseases. The SJVAPCD considers a sensitive receptor to be a location that houses or attracts children, the elderly, people with illnesses, or others who are especially sensitive to the effects of air pollutants. Examples of sensitive receptors include hospitals, residences, convalescent facilities, and schools.

The closest existing sensitive receptors (to the site area) are residences, the closest of which is located approximately 52.8 feet (0.01 mile) west of the project boundary. Descriptions of the land uses surrounding the project site are provided below.

- North of the project site is primarily developed farmland, northeast is an existing rural residence 0.06 of a mile away and northwest is P&R Farms agricultural buildings and parking area 0.14 of a mile. There is a large Derrel's Mini Storage just over ¾ of a mile to the northwest followed by a large Tract of homes. Clovis Community College, Granite Ridge Intermediate School, Riverview Elementary and Clovis North High School are all approximately 1 ½ miles northwest of the project.
- East of the project site is developed farmland within ¼ mile, including a large agricultural canal running approximately 0.10 of a mile directly east. Lennar The Ranch at Heritage Grove is a future subdivision starting at 0.38 miles away and mix of large rural homes and farmland starting approximately ¾ of a mile away.
- South of the project site is a mix of farmland, a few rural scattered homes, and a large tract of homes starting at 0.13 miles away. Woods Elementary School is just over ¾ of a mile south of the project.
- West of the project site is primarily developed farmland with 2 existing rural homes within 0.01 of a mile, including the closest residence to the project at 0.01 of a mile away. Just over 1 mile away is a large tract of existing homes.

*Localized Impacts*

Emissions occurring at or near the project have the potential to create a localized impact also referred to as an air pollutant hotspot. Localized emissions are considered significant if when combined with background emissions, they would result in exceedance of any health-based air quality standard. In locations that already exceed standards for these pollutants, significance is based on a significant impact level (SIL) that represents the amount that is considered a cumulatively considerable contribution to an existing violation of an air quality standard. The pollutants of concern for localized impact in the SJVAB are $NO_2$, $SO_X$, and CO. The SJVAPCD has provided guidance for screening localized impacts in the GAMAQI that establishes a screening threshold of 100 pounds per day of any criteria pollutant. If a project exceeds 100 pounds per day of any criteria pollutant, then ambient air quality modeling would be necessary. If the project does not exceed 100 pounds per day of any criteria pollutant, then it can be assumed that it would not cause a violation of an ambient air quality standard.

**Construction: Localized Concentrations of $PM_{10}$, $PM_{2.5}$, CO, and $NO_X$**

Local construction impacts would be short-term in nature lasting only during the duration of construction. As shown in Table 8 below, on-site construction emissions would be less than 100 pounds per day for each of the criteria pollutants. To present a conservative estimate, on-site emissions for on-road construction vehicles were included in the localized analysis. Based on the SJVAPCD's guidance, the construction emissions would not cause an ambient air quality standard violation.

**Table 8: Localized Concentrations of $PM_{10}$, $PM_{2.5}$, CO, and $NO_X$ for Construction**

| Source | On-site Emissions (pounds per day) | | | |
|---|---|---|---|---|
| | **$NO_X$** | **CO** | **$PM_{10}$** | **$PM_{2.5}$** |
| Construction (2024) | 36.06 | 33.24 | 9.65 | 5.45 |
| Construction (2025) | 30.16 | 28.89 | 5.22 | 2.60 |
| Construction (2026) | 8.65 | 12.53 | 0.72 | 0.34 |
| Construction (2027) | 8.25 | 12.45 | 0.68 | 0.30 |
| Construction (2028) | 7.90 | 12.40 | 0.65 | 0.27 |
| **Entire Project Construction Duration (2024-2028)** | | | | |
| **Maximum Daily On-site Emissions** | **36.06** | **33.24** | **9.65** | **5.45** |
| Significance Thresholds | 100 | 100 | 100 | 100 |
| Exceed Significance Thresholds? | No | No | No | No |

Note: Overlap of construction activities is based on the construction schedule shown in Table 1 and Attachment A.

Source of Emissions: Modeling Assumptions and CalEEMod Output Files (Attachment A).

Source of Thresholds: San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed December 12, 2023.

**Operation: Localized Concentrations of $PM_{10}$, $PM_{2.5}$, CO, and $NO_X$**

Localized impacts could occur in areas with a single large source of emissions—such as a power plant—or at locations with multiple sources concentrated in a small area, such as a distribution center. Although residential development projects are typically less likely to cause a localized air quality impact compared to land uses with large sources of emissions or multiple concentrated sources of emissions, the proposed project would emit air pollutants that have the potential to create a localized impact. The maximum daily operational emissions would occur at project buildout, which was modeled in the 2025 operational year for the purposes of providing a conservative estimate of emissions. Operational emissions include those generated on-site by area sources (such as consumer products and landscape maintenance), energy use from natural gas combustion, and motor vehicles operation at the project site. To assess localized air impacts, motor vehicle emissions were estimated for on-site and localized operations using an adjusted trip length of 0.5 mile.

As shown in Table 9 below, operational modeling of on-site emissions for the project indicate that the project would not exceed 100 pounds per day for each of the criteria pollutants. Therefore, based on the SJVAPCD's guidance, the operational emissions would not cause an ambient air quality standard violation. As such, impacts would be less than significant.

**Table 9: Localized Concentrations of $PM_{10}$, $PM_{2.5}$, CO, and $NO_X$ for Operations**

| Source | On-site Emissions (pounds per day) | | | | |
|---|---|---|---|---|---|
| | ROG | $NO_X$ | CO | $PM_{10}$ | $PM_{2.5}$ |
| Area | 8.26 | 1.34 | 9.74 | 0.11 | 0.11 |
| Energy Consumption | 0.09 | 1.59 | 0.68 | 0.13 | 0.13 |
| Mobile (On-road Vehicles) | 5.00 | 1.94 | 12.80 | 0.55 | 0.15 |
| **Daily Total** | **13.35** | **4.87** | **23.22** | **0.79** | **0.39** |
| **Significance Thresholds** | **—** | **100** | **100** | **100** | **100** |
| **Exceed Significance Thresholds?** | **—** | **No** | **No** | **No** | **No** |

Source of Emissions: Modeling Assumptions and CalEEMod Output Files (Attachment A).

Source of Thresholds: San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed December 12, 2023.

*Toxic Air Contaminants*

***Construction***

Project construction would involve the use of diesel-fueled vehicles and equipment that emit DPM, which is considered a TAC. The SJVAPCD's current threshold of significance for TAC emissions is an increase in cancer risk for the maximally exposed individual of 20 in a million (formerly 10 in a million).

A project-level assessment was conducted of the potential community health risk and health hazard impacts on surrounding sensitive receptors resulting from the emissions of TACs during construction. A summary of the assessment is provided below, while the detailed assessment is provided in Attachment B.

Construction activity using diesel-powered equipment emits DPM, a known carcinogen. Diesel particulate matter includes exhaust $PM_{10}$ and exhaust $PM_{2.5}$. A 10-year research program demonstrated that DPM from diesel-fueled engines is a human carcinogen and that chronic (long-term) inhalation exposure to DPM poses a chronic health risk.[7] Health risks from TACs are a function of both concentration and duration of exposure. Construction diesel emissions are temporary, affecting an area for a period of weeks or months. Additionally, construction-related sources are mobile and transient in nature.

The health risk assessment evaluated DPM (represented as exhaust $PM_{10}$) emissions generated during construction of the proposed project and the related health risk impacts for sensitive receptors located within approximately 1,000 feet of the project boundary.

[7] California Air Resources Board (CARB). 2015. The Report on Diesel Exhaust. Website: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/dieseltac/de-fnds.htm. Accessed December 12, 2023.

The project site is located within 1,000 feet of existing sensitive receptors that could be exposed to diesel emission exhaust during the construction period. To estimate the potential cancer risk associated with construction of the proposed project from equipment exhaust (including DPM), a dispersion model was used to translate an emission rate from the source location to concentrations at the receptor locations of interest (i.e., receptors at nearby residences). A maximally exposed receptor (MER) was determined for construction and through the use of the dispersion modeling. A graphical representation of the inputs used in the dispersion modeling, including the locations of modeled receptor locations, is included as part of Attachment B.

Table 10 presents a summary of the proposed project's construction cancer risk and chronic non-cancer hazard impacts at the MER from project construction prior to the application of any equipment mitigation.

**Table 10: Summary of the Health Impacts from Unmitigated Construction of the Project**

| Exposure Scenario | Maximum Cancer Risk (Risk per Million) | Chronic Non-Cancer Hazard Index | Acute Non-Cancer Hazard Index |
|---|---|---|---|
| **Risks and Hazards at the MER** | | | |
| Risks and Hazards at the MER (Construction Only) | 21.41 | 0.01090 | 0.00000 |
| Risks and Hazards at the MER (Construction Plus Operations) | 23.14 | 0.0163 | 0.00000 |
| **Significance Threshold** | **20** | **1** | **1** |
| **Threshold Exceeded in Any Scenario?** | **Yes** | **No** | **No** |

MER = Maximally Exposed Receptor
Project MER: Receptor #310 (36°52'23.2"N 119°42'33.1"W)
Source: Construction Health Risk Assessment and Operational Health Risk Screening (Attachment B).

As shown in Table 10, estimated health risks from elevated DPM concentrations during construction of the proposed project would not exceed the applicable health risk significance thresholds when construction is considered alone; however, construction plus operational emissions would exceed the applicable cancer risk threshold. This represents a potentially significant construction TAC exposure impact. Therefore, mitigation is required to reduce the impact during the construction period to below a level of significance.

MM AIR-C1 requires the project applicant, project sponsor, or construction contractor to provide documentation to the City of Farmerville that all off-road diesel-powered construction equipment greater than 50 horsepower meet EPA or CARB Tier 4 Interim off-road emissions standards or will utilize Level 3 filters. Table 11 shows the health risks and non-cancer hazard index for construction with implementation of MM AIR-1.

**Table 11: Summary of the Health Impacts from Mitigated Construction of the Project**

| Exposure Scenario | Maximum Cancer Risk (Risk per Million) | Chronic Non-Cancer Hazard Index | Acute Non-Cancer Hazard Index |
|---|---|---|---|
| **Risks and Hazards at the MER—Tier 4 Equipment Scenario** | | | |
| Risks and Hazards at the MER (Construction Only) | 5.14 | 0.00262 | 0.00000 |
| Risks and Hazards at the MER (Construction Plus Operations) | 6.87 | 0.00802 | 0.00000 |
| **Risks and Hazards at the MER—Level 3 Filters Scenario** | | | |
| Risks and Hazards at the MER (Construction Only) | 5.99 | 0.00305 | 0.00000 |
| Risks and Hazards at the MER (Construction Plus Operations) | 7.72 | 0.00845 | 0.00000 |
| **Highest Risks and Hazards at the MER after Incorporation of MM AIR-1** | | | |
| Risks and Hazards at the MER | 7.72 | 0.00845 | 0.00000 |
| **Significance Threshold** | **20** | **1** | **1** |
| **Threshold Exceeded in Any Scenario?** | **No** | **No** | **No** |

MER = Maximally Exposed Receptor
Project MER: Receptor #310 (36°52'23.2"N 119°42'33.1"W)
Source: Construction Health Risk Assessment and Operational Health Risk Screening (Attachment B).

As noted in Table 11, calculated health metrics from the proposed project's construction DPM emissions would not exceed the cancer risk significance threshold or non-cancer hazard index significance threshold at the MER with incorporation of MM AIR-1. Therefore, the proposed project would not result in a significant impact on nearby sensitive receptors from TACs during construction.

***Operations***

*Operational DPM*

The proposed residential project is expected to generate 1,507 average daily trips.[8] The proposed project would primarily generate trips associated with residents and visitors traveling to and from the project site.

Unlike warehouses or distribution centers, the daily vehicle trips generated by the proposed residential and parks project would be primarily generated by passenger vehicles. Passenger vehicles typically use gasoline engines rather than the diesel engines that are found in heavy-duty trucks. Gasoline-powered vehicles do emit TACs in the form of toxic organic gases, some of which are carcinogenic. Compared to the combustion of diesel, the combustion of gasoline has relatively low emissions of TACs. Thus, residential projects typically produce limited amounts of TAC emissions during operation from passenger vehicle trips. DPM emissions were estimated for the project-generated truck trips using EMFAC2021 to assess the project's

[8] Average daily trips based on weighted average of weekday, Saturday, and Sunday trips shown in Table 4.

potential to generate elevated levels of TACs from project trips. Health risk impacts were compared to the prioritization screening threshold to determine if a more refined health risk assessment conducted using dispersion modeling would be required. Detailed assumptions are provided in Attachment B. The results of the operational HRA from project-generated sources of DPM during operations are summarized below, while the complete assessment is included as part of Attachment B.

**Table 12: Summary of the Health Impacts Risk Impacts (Operational DPM Emissions)**

| Exposure Scenario | Maximum Cancer Risk (Risk per Million) | Chronic Non-Cancer Hazard Index |
|---|---|---|
| Prioritization Score (70-Year Exposure) | 1.73 | 0.0054 |
| **Applicable Prioritization Screening Threshold** | **10** | **1** |
| **Exceeds Prioritization Screening Threshold?** | **No** | **No** |

Notes:
Source: Attachment B (Construction Health Risk Assessment and Operational Health Risk Screening).

As shown in Table 12, the project would not exceed the applicable cancer risk or chronic risk prioritization screening threshold levels. The primary source of the DPM emissions responsible for chronic risk are from diesel trucks. DPM does not have an acute risk factor. Since the project does not exceed the applicable SJVAPCD screening thresholds for cancer risk, acute risk, or chronic risk, the impact related to the project's potential to expose sensitive receptors to substantial pollutant concentrations from non-permitted sources would be less than significant. Therefore, the proposed project would not result in a significant impact on nearby sensitive receptors from project-generated TACs during operations.

*Valley Fever*

Valley fever, or coccidioidomycosis, is an infection caused by inhalation of the spores of the fungus, *Coccidioides immitis* (*C. immitis*). The spores live in soil and can live for an extended time in harsh environmental conditions. Activities or conditions that increase the amount of fugitive dust contribute to greater exposure, and they include dust storms, grading, and recreational off-road activities.

The San Joaquin Valley is considered an endemic area for Valley fever. The San Joaquin Valley is considered an endemic area for Valley fever. During 2000–2018, a total of 65,438 coccidioidomycosis cases were reported in California; median statewide annual incidence was 7.9 per 100,000 population and varied by region from 1.1 in Northern and Eastern California to 90.6 in the Southern San Joaquin Valley, with the largest increase (15-fold) occurring in the Northern San Joaquin Valley. Incidence has been consistently high in six counties in the Southern San Joaquin Valley (Fresno, Kern, Kings, Madera, Tulare, and Merced counties) and Central Coast (San Luis Obispo County) regions.[9] California experienced 7,392 new probable or

[9] Centers for Disease Control and Prevention (CDC). 2020. Regional Analysis of Coccidioidomycosis Incidence—California, 2000–2018. Website: https://www.cdc.gov/mmwr/volumes/69/wr/mm6948a4.htm?s_cid=mm6948a4_e. Accessed December 12, 2023.

confirmed cases of Valley fever in 2020. A total of 466 Valley fever cases were reported in Fresno County in 2020.[10]

The distribution of *C. immitis* within endemic areas is not uniform and growth sites are commonly small (a few tens of meters) and widely scattered. Known sites appear to have some ecological factors in common suggesting that certain physical, chemical, and biological conditions are more favorable for *C. immitis* growth. Avoidance, when possible, of sites favorable for the occurrence of *C. immitis* is a prudent risk management strategy. Listed below are ecologic factors and sites favorable for the occurrence of *C. immitis*:

1) Rodent burrows (often a favorable site for *C. immitis*, perhaps because temperatures are more moderate and humidity higher than on the ground surface)
2) Old (prehistoric) Indian campsites near fire pits
3) Areas with sparse vegetation and alkaline soils
4) Areas with high salinity soils
5) Areas adjacent to arroyos (where residual moisture may be available)
6) Packrat middens
7) Upper 30 centimeters of the soil horizon, especially in virgin undisturbed soils
8) Sandy, well-aerated soil with relatively high water-holding capacities

Sites within endemic areas less favorable for the occurrence of *C. immitis* include:

1) Cultivated fields
2) Heavily vegetated areas (e.g., grassy lawns)
3) Higher elevations (above 7,000 feet)
4) Areas where commercial fertilizers (e.g., ammonium sulfate) have been applied
5) Areas that are continually wet
6) Paved (asphalt or concrete) or oiled areas
7) Soils containing abundant microorganisms
8) Heavily urbanized areas where there is little undisturbed virgin soil.[11]

The project is situated on a site previously disturbed that does not provide a suitable habitat for spores. Specifically, the project site has been previously disturbed and has previously been tilled. Therefore, development of the proposed project would have a lower probability of the site having *C. immitis* growth sites than if the site had been previously undisturbed.

[10] California Department of Public Health (CDPH). 2021. Coccidioidomycosis in California Provisional Monthly Report January 2021. Website: https://www.cdph.ca.gov/Programs/CID/DCDC/CDPH%20Document%20Library/CocciinCA ProvisionalMonthlyReport.pdf. Accessed December 12, 2023.

[11] United States Geological Survey (USGS). 2000. Operational Guidelines (Version 1.0) for Geological Fieldwork in Areas Endemic for Coccidioidomycosis (Valley Fever), 2000, Open-File Report 2000-348. Website: https://pubs.usgs.gov/of/2000/0348/pdf/of00-348.pdf. Accessed December 12, 2023.

Although conditions are not favorable, construction activities could generate fugitive dust that contain *C. immitis* spores. The project will minimize the generation of fugitive dust during construction activities by complying with SJVAPCD's Regulation VIII. Therefore, this regulation, combined with the relatively low probability of the presence of *C. immitis* spores would reduce Valley fever impacts to less than significant.

During operations, dust emissions are anticipated to be relatively small because most of the project area where operational activities would occur would be occupied by the proposed homes, g pavement associated with the proposed residential and parks development; it is anticipated that all internal travel areas would be paved. This condition would lessen the possibility of the project from providing habitat suitable for *C. immitis* spores and for generating fugitive dust that may contribute to Valley fever exposure. Impacts would be less than significant.

*Naturally Occurring Asbestos*

Review of the map of areas where naturally occurring asbestos in California are likely to occur found no such areas in the immediate project area. Therefore, development of the project is not anticipated to expose receptors to naturally occurring asbestos.[12] Impacts would be less than significant.

*Impact Analysis Summary*

In summary, the project would not exceed SJVAPCD localized emission daily screening levels for any criteria pollutant. The project is not a significant source of TAC emissions during operations and is not a significant source of TAC emissions during construction after incorporation of MM AIR-1. The project is not in an area with suitable habitat for Valley fever spores and is not in an area known to have naturally occurring asbestos. Therefore, the project would not result in significant impacts to sensitive receptors after incorporation of MM AIR-1.

### *Level of Significance Before Mitigation*

Potentially significant impact.

### *Mitigation Measures*

**MM AIR-1** Before a construction permit is issued for the proposed project, the project applicant, project sponsor, or construction contractor shall submit documentation demonstrating reasonably detailed compliance with the following requirements to the City of Clovis:

(1) Where portable diesel engines are used during construction, all off-road equipment with engines greater than 50 horsepower shall have engines that meet or exceed either United States Environmental Protection Agency (EPA) or California Air Resources Board (CARB) Tier 4 Interim off-road emission standards or be equipped with Level 3 diesel particulate filters. Tier 4 Interim engines shall, at a minimum, meet EPA or CARB particulate matter emissions standards for Tier 4 Interim engines. Alternatively, use of CARB-certified Level

[12] U.S. Geological Survey. 2011. Van Gosen, B.S., and Clinkenbeard, J.P. California Geological Survey Map Sheet 59. Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California. Open-File Report 2011-1188 Website: https://pubs.usgs.gov/of/2011/1188/. Accessed December 12, 2023.

3 diesel particulate filters on off-road equipment with engines greater than 50 horsepower can be used in lieu of Tier 4 Interim engines or in combination with Tier 4 Interim or better engines. The construction contractor shall maintain records documenting its efforts to comply with this requirement, including equipment lists. Off-road equipment descriptions and information shall include, but are not limited to, equipment type, equipment manufacturer, equipment identification number, engine model year, engine certification (Tier rating), horsepower, and engine serial number. The project applicant and/or construction contractor shall submit the construction operations plan and records of compliance to the City of Clovis.

***Level of Significance After Mitigation***

Less than significant impact with incorporation of MM AIR-1.

**Impact AIR-4 Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?**

**Impact Analysis**

Two situations create a potential for odor impact. The first occurs when a new odor source is located near an existing sensitive receptor. The second occurs when a new sensitive receptor locates near an existing source of odor. According to the *CBIA v. BAAQMD* ruling, impacts of existing sources of odors on the project are not subject to CEQA review. Therefore, the analysis to determine if the project would locate new sensitive receptors near an existing source of odor is not used to determine significance for this impact.

Odor impacts on residential areas and other sensitive receptors, such as hospitals, day-care centers, schools, etc. warrant the closest scrutiny, but consideration should also be given to other land uses where people may congregate, such as recreational facilities, worksites, and commercial areas.

Although the project is approximately 52.8 feet (0.01 mile) from the nearest sensitive receptor, the project is not expected to be a significant source of odors. The screening levels for these land use types are shown in Table 13.

**Table 13: Screening Levels for Potential Odor Sources**

| Odor Generator | Screening Distance |
|---|---|
| Wastewater Treatment Facilities | 2 miles |
| Sanitary Landfill | 1 mile |
| Transfer Station | 1 mile |
| Composting Facility | 1 mile |
| Petroleum Refinery | 2 miles |
| Asphalt Batch Plant | 1 mile |
| Chemical Manufacturing | 1 mile |
| Fiberglass Manufacturing | 1 mile |
| Painting/Coating Operations (e.g., auto body shop) | 1 mile |
| Food Processing Facility | 1 mile |
| Feed Lot/Dairy | 1 mile |
| Rendering Plant | 1 mile |
| Wastewater Treatment Facilities | 2 miles |
| Source of Thresholds: San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed December 12, 2023. | |

*Project Construction and Project Operation*

The occurrence and severity of odor impacts depend on numerous factors, including the nature, frequency, and intensity of the source; wind speed and direction; and the presence of sensitive receptors. Although offensive odors rarely cause any physical harm, they still can be very unpleasant, leading to considerable distress and often generating citizen complaints to local governments and regulatory agencies. Project operations would not be anticipated to produce odorous emissions, as the project would not be considered an odor generator based on the land uses shown in Table 13. Construction activities associated with the proposed project could result in short-term odorous emissions from diesel exhaust associated with construction equipment. However, these emissions would be intermittent and would dissipate rapidly from the source. In addition, this diesel-powered equipment would only be present onsite temporarily during construction activities. The temporary and intermittent nature of construction activities would decrease the likelihood of the odors concentrating in a single area or lingering for any notable period of time. As such, these odors would likely not be noticeable for extended periods of time beyond the project's site boundaries. Therefore, construction would not create objectionable odors affecting a substantial number of people from use of diesel-powered equipment. As there would not be conditions under which the project would have the potential to expose a substantial number of people to odors emitted from construction or operations of the project, and the impact would be less than significant.

***Level of Significance Before Mitigation***

Less than significant.

***Mitigation Measures***

No mitigation measures are necessary.

# GREENHOUSE GASES

## Environmental Setting

*Greenhouse Gases*

Greenhouse gases and climate change are cumulative global issues. The CARB and EPA regulate GHG emissions within the State of California and the U.S., respectively. Meanwhile, the CARB has the primary regulatory responsibility within California for GHG emissions. Local agencies can also adopt policies for GHG emission reduction.

Many chemical compounds in the Earth's atmosphere act as GHGs as they absorb and emit radiation within the thermal infrared range. When radiation from the sun reaches the Earth's surface, some of it is reflected into the atmosphere as infrared radiation (heat). Greenhouse gases absorb this infrared radiation and trap the heat in the atmosphere. Over time, the amount of energy from the sun to the Earth's surface should be approximately equal to the amount of energy radiated back into space, leaving the temperature of the earth's surface roughly constant. Many gases exhibit these "greenhouse" properties. Some of them occur in nature (water vapor, carbon dioxide [$CO_2$], methane [$CH_4$], and nitrous oxide [$N_2O$]), while others are exclusively human made (like gases used for aerosols).

The principal climate change gases resulting from human activity that enter and accumulate in the atmosphere are listed below.

### *Carbon Dioxide*

Carbon dioxide enters the atmosphere through the burning of fossil fuels (oil, natural gas, and coal), solid waste, trees and wood products, and chemical reactions (e.g., the manufacture of cement). Carbon dioxide is also removed from the atmosphere (or "sequestered") when it is absorbed by plants as part of the biological carbon cycle.

### *Methane*

Methane is emitted during the production and transport of coal, natural gas, and oil. Methane emissions also result from livestock and agricultural practices and the decay of organic waste in municipal solid waste landfills.

### *Nitrous Oxide*

Nitrous oxide is emitted during agricultural and industrial activities, as well as during combustion of fossil fuels and solid waste.

### *Fluorinated Gases*

Hydrofluorocarbons, perfluorinated chemicals, and sulfur hexafluoride are synthetic, powerful climate-change gases that are emitted from a variety of industrial processes. Fluorinated gases are often used as substitutes for ozone-depleting substances (i.e., chlorofluorocarbons, hydrochlorofluorocarbons, and halons). These gases are typically emitted in smaller quantities, but because they are potent climate-change gases, they are sometimes referred to as high global warming potential gases.

*Emissions Inventories and Trends*

According to the CARB's recent GHG inventory for the State, released 2022, California produced 369.2 million metric tons of carbon dioxide equivalent ($MMTCO_2e$) in 2020. The major source of GHGs in California is transportation, contributing approximately 38 percent of the state's total GHG emissions in 2020.[13] This puts total emissions below the 2020 target of 431 million metric tons. California statewide GHG emissions dropped below the 2020 GHG limit in 2016 and have remained below the 2020 GHG limit since then.

*Potential Environmental Impacts*

For California, climate change in the form of warming has the potential to incur and exacerbate environmental impacts, including but not limited to changes to precipitation and runoff patterns, increased agricultural demand for water, inundation of low-lying coastal areas by sea-level rise, and increased incidents and severity of wildfire events.[14] Cooling of the climate may have the opposite effects. Although certain environmental effects are widely accepted to be a potential hazard to certain locations, such as rising sea level for low-lying coastal areas, it is currently infeasible to predict all environmental effects of climate change on any one location.

Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the industrial and manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on Earth. A project's GHG emissions are at a micro-scale relative to global emissions but could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact.

*Regulatory Requirements*

California has adopted statewide legislation addressing various aspects of climate change and GHG emissions mitigation. Much of this legislation establishes a broad framework for the state's long-term GHG reduction and climate change adaptation program. The governor has also issued several executive orders (EOs) related to the state's evolving climate change policy. Of particular importance are AB 32 and SB 32, which outline the state's GHG reduction goals of achieving 1990 emissions levels by 2020 and a 40 percent reduction below 1990 emissions levels by 2030.

In the absence of federal regulations, control of GHGs is generally regulated at the state level and is typically approached by setting emission reduction targets for existing sources of GHGs, setting policies to promote renewable energy and increase energy efficiency, and developing statewide action plans.

*CEQA Guidelines*

The CEQA Guidelines define a significant effect on the environment as "a substantial, or potentially substantial, adverse change in the environment." To determine if a project would

[13] California Air Resources Board (CARB). 2022. 2000-2020 Greenhouse Gas inventory (2022 Edition). Website: https://ww2.arb.ca.gov/ghg-inventory-data. Accessed December 12, 2023.

[14] Moser et al. 2009. Moser, Susie, Guido Franco, Sarah Pittiglio, Wendy Chou, Dan Cayan. 2009. The Future Is Now: An Update on Climate Change Science Impacts and Response Options for California. Website: http://www.susannemoser.com/documents/CEC-500-2008-071_Moseretal_FutureisNow.pdf. Accessed December 12, 2023.

have a significant impact on GHGs, the type, level, and impact of emissions generated by the project must be evaluated.

The following GHG significance thresholds are contained in Appendix G of the CEQA Guidelines, which were amendments adopted into the Guidelines on March 18, 2010, pursuant to SB 97. A significant impact would occur if the project would:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or
- Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

*Thresholds of Significance*

***San Joaquin Valley Air Pollution Control District***

The SJVAPCD's Guidance for Valley Land-use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA presents a tiered approach to analyzing project significance with respect to GHG emissions. Project GHG emissions are considered less than significant if they can meet any of the following conditions, evaluated in the order presented:

- Project is exempt from CEQA requirements;
- Project complies with an approved GHG emission reduction plan or GHG mitigation program;
- Project implements Best Performance Standards (BPS); or
- Project demonstrates that specific GHG emissions would be reduced or mitigated by at least 29 percent compared to Business-as-Usual (BAU), including GHG emission reductions achieved since the 2002-2004 baseline period.

***Project-level Thresholds***

Section 15064.4(b) of the CEQA Guidelines' amendments for GHG emissions states that a lead agency may take into account the following three considerations in assessing the significance of impacts from GHG emissions.

- Consideration #1: The extent to which the project may increase or reduce GHG emissions as compared to the existing environmental setting.
- Consideration #2: Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
- Consideration #3: The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions. Such regulations or requirements must be adopted by the relevant public agency through a public review process and must include specific requirements that reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable notwithstanding compliance with the adopted regulations or requirements, an Environmental Impact Report (EIR) must be prepared for the project.

### *Newhall Ranch*

In the California Supreme Court decision in the *Center for Biological Diversity et al. vs. California Department of Fish and Wildlife, the Newhall Land and Farming Company* (62 Cal.4th 204 [2015], and known as the Newhall Ranch decision), the Supreme Court was concerned that new development may need to reduce GHG emissions more than existing development to demonstrate it is meeting its fair share of reductions. New development does more than its fair share through compliance with enhanced regulations, particularly with respect to motor vehicles, energy efficiency, and electricity generation. If no additional reductions are required from an individual project beyond that achieved by regulations, then the amount needed to reach the 2020 target is the amount of GHG emissions a project must reduce to comply with Statewide goals.

The State's regulatory program implementing the 2008 Scoping Plan is now fully mature. All regulations envisioned in the Scoping Plan have been adopted by the responsible agencies and the effectiveness of those regulations have been estimated by the agencies during the adoption process and then are tracked to verify their effectiveness after implementation. The Governor Brown, in the introduction to Executive Order B-30-15, states "California is on track to meet or exceed the current target of reducing greenhouse gas emissions to 1990 levels by 2020, as established in the California Global Warming Solutions Act of 2006 (AB 32)." The progress was evident in emission inventories prepared by CARB, which showed that the State inventory dropped below 1990 levels for the first time in 2016.[15] The State projects that it will meet the 2020 target and achieve continued progress towards meeting the 2017 Scoping Plan target for 2030.[16] CARB adopted the 2022 Scoping Plan on December 16, 2022 that addresses long-term GHG goals set forth by AB 1279.[17] The 2022 Scoping Plan outlines the State's pathway to achieve carbon neutrality and an 85 percent reduction in 1990 emissions goal by 2045. In the 2022 Scoping Plan, CARB advocates for compliance with a local GHG reduction strategy consistent with CEQA Guidelines section 15183.5.

### Environmental Impact Analysis

This section discusses potential impacts related to GHGs associated with the proposed project and provides mitigation measures where necessary.

**Impact GHG-1 Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?**

### Impact Analysis

The proposed project may contribute to climate change impacts through its contribution of GHGs. The proposed project would generate a variety of GHGs during construction and operations, including several defined by AB 32, such as $CO_2$, $CH_4$, and $N_2O$ from the exhaust of equipment during construction and on-road vehicle trips during construction and operations. The following analysis assesses the project's compliance with Consideration #3 regarding

[15] California Air Resources Board (CARB). 2018. Climate Pollutants Fall Below 1990 Levels for the First Time. Website: https://ww2.arb.ca.gov/news/climate-pollutants-fall-below-1990-levelsfirst-time. Accessed December 12, 2023.
[16] California Air Resources Board (CARB). 2017. The 2017 Climate Change Scoping Plan Update, the Proposed Strategy for Achieving California's 2030 Greenhouse Gas Target. January 17, 2017. Website: https://www.arb.ca.gov/cc/scopingplan/2030sp_pp_final.pdf. Accessed December 12, 2023.
[17] The Final 2022 Scoping Plan was released on November 16, 2022 and adopted by CARB in December 2022.

consistency with adopted plans to reduce GHG emissions. The project is in unincorporated Fresno County, just outside of the City of Clovis. As the project site would be annexed into the City of Clovis, information for both unincorporated Fresno County and the City of Clovis was reviewed. Neither the City of Clovis nor the County of Fresno have adopted a GHG reduction plan that would be applicable to the proposed project. In addition, neither the City of Clovis nor the County of Fresno have completed the GHG inventory, benchmarking, or goal-setting process required to identify a reduction target and take advantage of the streamlining provisions contained in the CEQA Guidelines. The SJVAPCD has adopted a Climate Action Plan, but it does not contain measures that are applicable to the project. Therefore, the SJVAPCD Climate Action Plan cannot be applied to the project. Since no other local or regional Climate Action Plan is in place, the project is assessed for its consistency with CARB's adopted Scoping Plans.

In the absence of an adopted numeric GHG emissions threshold consistent with the State's 2030 target, the project's GHG emissions impact determination is based on the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions. The project's GHG emissions are provided for informational purposes only.

*Quantification of Greenhouse Gas Emissions for Informational Purposes*

### *Construction Emissions*

Construction emissions would be generated from the exhaust of construction equipment, material delivery trips, haul truck trips, and worker commuter trips. Detailed construction assumptions are provided in Modeling Parameters and Assumptions section of this technical memorandum. Construction-generated GHGs were quantified and are disclosed in Attachment A. $MTCO_2e$ emissions during construction of the project are summarized below in Table 14.

**Table 14: Construction Greenhouse Gas Emissions**

| **Project Construction (2024-2028)** | **$MTCO_2e$ per Year** |
|---|---|
| Project Construction (2024) | 104 |
| Project Construction (2025) | 325 |
| Project Construction (2026) | 300 |
| Project Construction (2027) | 298 |
| Project Construction (2028) | 19 |
| **Total Construction $MTCO_2e$** | **1,046** |
| **Emissions Amortized Over 30 Years[1]** | **34.9** |
| Notes:<br>$MTCO_2e$ = metric tons of carbon dioxide equivalent<br>[1] Construction GHG emissions are amortized over the 30-year lifetime of the project.<br>Source: Modeling Assumptions and CalEEMod Output Files (Attachment A). | |

During the construction of the proposed project, approximately 1,046 $MTCO_2e$ would be emitted. Neither the City of Clovis, Fresno County, nor the SJVAPCD have an adopted threshold of significance for construction related GHG emissions. Because impacts from construction activities occur over a relatively short-term period, they contribute a relatively small portion of the overall lifetime project GHG emissions. In addition, GHG emission reduction

measures for construction equipment are relatively limited. Therefore, a standard practice is to amortize construction emissions over the anticipated lifetime of a project so that GHG reduction measures will address construction GHG emissions as part of the operational GHG reduction strategies. However, emissions were quantified for informational purposes only. The total emissions generated during construction were amortized based on the life of the development (30 years) and added to the operational emissions to determine the total emissions from the project, as shown below.

### *Operational Emissions*

Operational or long-term emissions occur over the life of the project. The operational emissions for the proposed project are shown in Table 15. Sources for operational emissions include the following:

- Motor Vehicles: These emissions refer to GHG emissions contained in the exhaust from the cars and trucks that would travel to and from the project site. As described in the traffic study prepared for the proposed project, the project is expected to generate 1,507 average daily trips.[18]
- Natural Gas: These emissions refer to the GHG emissions that occur when natural gas is burned on the project site. Natural gas uses could include heating water, space heating, dryers, stoves, or other uses.
- Indirect Electricity: These emissions refer to those generated by offsite power plants to supply electricity required for the project.
- Water Transport: These emissions refer to those generated by the electricity required to transport and treat the water to be used on the project site.
- Waste: These emissions refer to the GHG emissions produced by decomposing waste generated by the project.

Detailed modeling results and more information regarding assumptions used to estimate emissions are provided in Attachment A. Operational emissions are shown in Table 15.

**Table 15: Operational Greenhouse Gas Emissions for Project Buildout**

| **Source Category** | **Project Total Buildout Year ($MTCO_2e$/year)** |
|---|---|
| Area | 66 |
| Energy Consumption | 477 |
| Mobile (On-road Vehicles) | 1,074 |
| Water Usage | 19 |
| Solid Waste Generation | 45 |
| Refrigerants | < 0.1 |
| Amortized Construction Emissions | 34.9 |
| **Total** | **1,681** |

[18] Average daily trips based on weighted average of weekday, Saturday, and Sunday trips shown in Table 4.

| Source Category | Project Total Buildout Year ($MTCO_2e$/year) |
|---|---|
| Notes: | |
| $MTCO_2e$ = metric tons of carbon dioxide equivalent | |
| Source: Modeling Assumptions and CalEEMod Output Files (Attachment A). | |

As previously noted, the project's estimated emissions were estimated for disclosure purposes. However, significance for GHG emissions is analyzed by assessing the project's compliance with Consideration No. 3 regarding consistency with adopted plans to reduce GHG emissions. As discussed in detail below, the project would not conflict with any applicable plan, policy or regulation of an agency adopted to reduce the emissions of GHGs. As such, the project's generation of GHG emissions would not result in a significant impact on the environment.

***Impact Analysis (Project's Compliance with Consideration No. 3 Regarding Consistency with Adopted Plans to Reduce GHG Emissions)***

The following analysis assesses the project's compliance with Consideration No. 3 regarding consistency with adopted plans to reduce GHG emissions. The proposed project is assessed for its consistency with CARB's adopted Scoping Plans, which include the 2008, 2017, and 2022 Scoping Plans.

*Consistency with AB 32 and the 2008 Scoping Plan*

The State's regulatory program implementing the 2008 Scoping Plan is now fully mature. All regulations envisioned in the Scoping Plan have been adopted, and the effectiveness of those regulations has been estimated by the agencies during the adoption process and then tracked to verify their effectiveness after implementation. The combined effect of this successful effort is that the State projects that it will achieve continued progress toward meeting post-2020 targets. Governor Brown, in the introduction to Executive Order B-30-15, stated "California is on track to meet or exceed the current target of reducing greenhouse gas emissions to 1990 levels by 2020, as established in the California Global Warming Solutions Act of 2006 (AB 32)."

*Consistency with SB 32 and the 2017 Scoping Plan*

The 2017 Climate Change Scoping Plan Update (2017 Scoping Plan) includes the strategy that the State intends to pursue to achieve the 2030 targets of Executive Order S-3-05 and SB 32. The 2017 Scoping Plan includes the following summary of its overall strategy for reaching the 2030 target:

- SB 350
    - Achieve 50 percent Renewables Portfolio Standard (RPS) by 2030.
    - Doubling of energy efficiency savings by 2030.
- Low Carbon Fuel Standard (LCFS)
    - Increased stringency (reducing carbon intensity 18 percent by 2030, up from 10 percent in 2020).
- Mobile Source Strategy (Cleaner Technology and Fuels Scenario)
    - Maintaining existing GHG standards for light- and heavy-duty vehicles.

  - Put 4.2 million zero-emission vehicles (ZEVs) on the roads.
  - Increase ZEV buses, delivery and other trucks.
- Sustainable Freight Action Plan
  - Improve freight system efficiency.
  - Maximize use of near-zero emission vehicles and equipment powered by renewable energy.
  - Deploy over 100,000 zero-emission trucks and equipment by 2030.
- Short-Lived Climate Pollutant (SLCP) Reduction Strategy
  - Reduce emissions of methane and hydrofluorocarbons 40 percent below 2013 levels by 2030.
  - Reduce emissions of black carbon 50 percent below 2013 levels by 2030.
- SB 375 Sustainable Communities Strategies
  - Increased stringency of 2035 targets.
- Post-2020 Cap-and-Trade Program
  - Declining caps, continued linkage with Québec, and linkage to Ontario, Canada.
  - CARB will look for opportunities to strengthen the program to support more air quality co-benefits, including specific program design elements. In Fall 2016, CARB staff described potential future amendments including reducing the offset usage limit, redesigning the allocation strategy to reduce free allocation to support increased technology and energy investment at covered entities and reducing allocation if the covered entity increases criteria or toxics emissions over some baseline.
- By 2018, develop Integrated Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

Table 16 provides an analysis of the project's consistency with the 2017 Scoping Plan Update measures.

**Table 16: Consistency with SB 32 2017 Scoping Plan Update**

| Scoping Plan Measure | Project Consistency |
|---|---|
| **SB 350 50% Renewable Mandate.** Utilities subject to the legislation will be required to increase their renewable energy mix from 33% in 2020 to 50% in 2030. This has been increased to 60%. | **Consistent**: The project will purchase electricity from a utility subject to the SB 350 Renewable Mandate SB 100 Renewable Mandate. SB 100 revised the Renewable Portfolio Standard goals to achieve the 50 percent renewable resources target by December 31, 2026, and to achieve a 60 percent target by December 31, 2030. The specific provider for the City of Clovis and the proposed project is Pacific Gas and Electric (PG&E). In February 2018, PG&E announced that it had reached California's 2020 renewable energy goal 3 years ahead of schedule and delivers nearly 80 percent of its electricity from GHG-free resources.[1] |

| Scoping Plan Measure | Project Consistency |
|---|---|
| **SB 350 Double Building Energy Efficiency by 2030.** This is equivalent to a 20 percent reduction from 2014 building energy usage compared to current projected 2030 levels. | **Not Applicable**. This measure applies to existing buildings, while the project includes new construction. New structures are required to comply with Title 24 Energy Efficiency Standards that are expected to increase in stringency over time. |
| **Low Carbon Fuel Standard.** This measure requires fuel providers to meet an 18 percent reduction in carbon content by 2030. | **Consistent**. This is a Statewide measure that cannot be implemented by a project applicant or lead agency. However, vehicles accessing the project site will use fuel containing lower carbon content as the fuel standard is implemented. |
| **Mobile Source Strategy (Cleaner Technology and Fuels Scenario).** Vehicle manufacturers will be required to meet existing regulations mandated by the LEV III and Heavy-Duty Vehicle programs. The strategy includes a goal of having 4.2 million ZEVs on the road by 2030 and increasing numbers of ZEV trucks and buses. | **Consistent**. The project consists of 162 single family detached residential units and two (2) small parks on approximately 14.57 acres. The project is residential is nature and would not engage in vehicle manufacturing; however, vehicles would access the project site during project operations. Future project residents and other visitors can be expected to purchase increasing numbers of more fuel efficient and zero emission cars and trucks each year. Residential deliveries will be made by increasing numbers of ZEV delivery trucks. |
| **Sustainable Freight Action Plan.** The plan's target is to improve freight system efficiency 25 percent by increasing the value of goods and services produced from the freight sector, relative to the amount of carbon that it produces by 2030. This would be achieved by deploying over 100,000 freight vehicles and equipment capable of zero emission operation and maximize near-zero emission freight vehicles and equipment powered by renewable energy by 2030. | **Not Applicable**. The measure applies to owners and operators of trucks and freight operations. However, deliveries that would be made to the future homes proposed as part of the project are expected to be made by increasing number of ZEV delivery trucks. |
| **Short-Lived Climate Pollutant (SLCP) Reduction Strategy.** The strategy requires the reduction of SLCPs by 40 percent from 2013 levels by 2030 and the reduction of black carbon by 50 percent from 2013 levels by 2030. | **Consistent.** Sources of black carbon are already regulated by the CARB and air district criteria pollutant and toxic regulations that control fine particulate emissions from diesel engines and other combustion sources. The project residences would not include wood burning hearths. Natural gas hearths produce very little black carbon compared to woodburning fireplaces and heaters. |
| **SB 375 Sustainable Communities Strategies.** Requires Regional Transportation Plans to include a sustainable communities strategy for reduction of per capita vehicle miles traveled. | **Not Applicable**. The project does not consist of a proposed regional transportation plan; therefore, this measure is not applicable to the proposed project. |
| **Post-2020 Cap-and-Trade Program.** The Post 2020 Cap-and-Trade Program continues the existing program for another 10 years. The Cap-and-Trade Program applies to large industrial sources such as power plants, refineries, and cement manufacturers. | **Consistent.** The post-2020 Cap-and-Trade Program indirectly affects people who use the products and services produced by the regulated industrial sources when increased cost of products or services (such as electricity and fuel) are transferred to the consumers. The Cap-and-Trade Program covers the GHG emissions associated with electricity consumed in California, whether generated in-state or imported. Accordingly, GHG emissions associated with CEQA projects' electricity usage are covered by the Cap-and-Trade |

| Scoping Plan Measure | Project Consistency |
|---|---|
| | Program. The Cap-and-Trade Program also covers fuel suppliers (natural gas and propane fuel providers and transportation fuel providers) to address emissions from such fuels and from combustion of other fossil fuels not directly covered at large sources in the program's first compliance period. |
| **Natural and Working Lands Action Plan.** CARB is working in coordination with several other agencies at the federal, state, and local levels, stakeholders, and with the public, to develop measures as outlined in the Scoping Plan Update and the governor's Executive Order B-30-15 to reduce GHG emissions and to cultivate net carbon sequestration potential for California's natural and working land. | **Not Applicable**. The project consists of residential development and will not be considered natural or working lands. |

Source: California Air Resources Board (CARB). 2017. The 2017 Climate Change Scoping Plan Update. January 20. Website: https://www.arb.ca.gov/cc/scopingplan/2030sp_pp_final.pdf. Accessed December 12, 2023.

[1] Pacific Gas and Electric (PG&E). 2018. PG&E Clean Energy Deliveries Already Meet Future Goals. Website: www.pge.com/en/about/newsroom/newsdetails/index.page?title=20180220_pge_clean_energy_deliveries_already_meet_future_goals. Accessed December 12, 2023.

*Consistency Regarding GHG Reduction Goals for 2050 under Executive Order S-3-05 and GHG Reduction Goals for 2045 under the 2022 Scoping Plan*

Regarding goals for 2050 under Executive Order S-3-05, at this time it is not possible to quantify the emissions savings from future regulatory measures with any level of certainty, as they have not yet been developed; nevertheless, it can be anticipated that operation of the project would comply with whatever measures are enacted that state lawmakers decide would lead to an 80 percent reduction below 1990 levels by 2050. In its 2008 Scoping Plan, CARB acknowledged that the "measures needed to meet the 2050 are too far in the future to define in detail." In the First Scoping Plan Update; however, CARB generally described the type of activities required to achieve the 2050 target: "energy demand reduction through efficiency and activity changes; large scale electrification of on-road vehicles, buildings, and industrial machinery; decarbonizing electricity and fuel supplies; and rapid market penetration of efficiency and clean energy technologies that requires significant efforts to deploy and scale markets for the cleanest technologies immediately." The 2017 Scoping Plan provides an intermediate target that is intended to achieve reasonable progress toward the 2050 target. In addition, the 2022 Scoping Plan outlines objectives, regulations, planning efforts, and investments in clean technologies and infrastructure that outlines how the State can achieve carbon-neutrality by 2045.

The 2022 Scoping Plan strategies that are applicable to the project include reducing fossil fuel use, energy demand, and vehicle miles traveled; maximizing recycling and diversion from landfills; and increasing water conservation. The TM6467 project would be consistent with these goals through project design, which include complying with the latest requirements of the CALGreen Code and Building Energy Efficiency Standards. For instance, the latest requirement require all new single-family homes to be equipped with solar to provide on-site renewable energy. In addition, the project would receive electricity from PG&E, which is required to reduce GHG emissions by increasing procurement from eligible renewable energy by set target years.

Furthermore, the project would be consistent with goals to reduce VMT by constructing new homes near existing residential, commercial, and public uses. The project would also to encourage alternative modes of transportation by providing infrastructure for future EV chargers (consistent with the applicable Building Code) and would provide extensive pedestrian connectivity within the project site and to adjacent land uses. The project would further align with goals in the 2022 Scoping Plan by incorporating a number of sustainable design features, including, but not limited, to installation of energy-efficient light fixtures, high-efficiency plumbing fixtures, EV parking spaces, and rooftop PV systems and solar panels (consistent with the requirements of Title 24).

Accordingly, taking into account the proposed project's emissions, project design features, and the progress being made by the State towards reducing emissions in key sectors such as transportation, industry, and electricity, the project would be consistent with State GHG Plans and would further the State's goals of reducing GHG emissions to 1990 levels by 2020, 40 percent below 1990 levels by 2030, carbon neutral by 2045, and 80 percent below 1990 levels by 2050, and does not obstruct their attainment. Impacts would be less than significant.

### Conclusion

As described above, the proposed project would be consistent with State GHG Plans and would not obstruct the State's ability to meet its goals of reducing GHG emissions 40 percent below 1990 levels by 2030, carbon neutral by 2045, and 80 percent below 1990 levels by 2050. Therefore, the project's generation of GHG emissions would not result in a significant impact on the environment.

#### *Level of Significance Before Mitigation*

Less than significant.

#### *Mitigation Measures*

No mitigation measures are necessary.

## Impact GHG-2 Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

### Impact Analysis

The analysis contained above under Impact GHG-1 evaluates whether the project would not conflict with any applicable plan, policy, or regulation of an agency adopted to reduce the emissions of GHGs. As discussed under Impact GHG-1 above, the project would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing emissions GHGs. As such, project impacts in this regard would be less than significant.

#### *Level of Significance Before Mitigation*

Less than significant.

#### *Mitigation Measures*

No mitigation measures are necessary.

## Attachments:

Attachment A – Modeling Assumptions and CalEEMod Output Files

Attachment B – Construction Health Risk Assessment and Operational Health Risk Screening

# ATTACHMENT A
## Modeling Assumptions and CalEEMod Output Files

# Modeling Assumptions and CalEEMod Output Files

## Table of Contents

**Modeling Assumptions/Additional Supporting Information**

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- **Project Site Vicinity Map**
- **Project Site APN Map**
- **Bonadelle TM6467 Project Site Plan**

**CalEEMod Output Files**

- **Unmitigated Project Construction & Buildout Operations in the Earliest Year (2025)**
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- **Mitigated Project Construction (Level 3 Filters Scenario)**

# Bonadelle TM6467 Project Construction Assumptions

| Construction Phase | | | Num Days | |
|---|---|---|---|---|
| Phase Name | Start Date | End Date | Week | Num Days |
| Demolition | 11/1/2024 | 11/29/2024 | 5 | 20 |
| Site Preparation | 11/30/2024 | 12/14/2024 | 5 | 10 |
| Grading | 12/15/2024 | 1/26/2025 | 5 | 30 |
| Paving | 1/27/2025 | 2/21/2025 | 5 | 20 |
| Trenching/Utilities | 2/22/2025 | 10/03/2025 | 5 | 160 |
| Building Construction | 10/04/2025 | 1/21/2028 | 5 | 600 |
| Architectural Coating | 1/22/2028 | 2/18/2028 | 5 | 20 |

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Demolition | Rubber Tired Dozers | 2 | 8 | 367 | 0.40 |
| Demolition | Excavators | 3 | 8 | 36 | 0.38 |
| Demolition | Concrete/Industrial Saws | 1 | 8 | 33 | 0.73 |
| Site Preparation | Rubber Tired Dozers | 3 | 8 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8 | 84 | 0.37 |
| Grading | Graders | 1 | 8 | 148 | 0.41 |
| Grading | Excavators | 2 | 8 | 36 | 0.38 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8 | 84 | 0.37 |
| Grading | Scrapers | 2 | 8 | 423 | 0.48 |
| Grading | Rubber Tired Dozers | 1 | 8 | 367 | 0.40 |
| Paving | Pavers | 2 | 8 | 81 | 0.42 |
| Paving | Paving Equipment | 2 | 8 | 89 | 0.36 |
| Paving | Rollers | 2 | 8 | 36 | 0.38 |
| Trenching/Utilities | Tractors/Loaders/Backhoes | 2 | 8 | 84 | 0.37 |
| Trenching/Utilities | Trenchers | 1 | 8 | 40 | 0.50 |
| Trenching/Utilities | Rubber Tired Dozers | 1 | 8 | 367 | 0.40 |
| Building Construction | Forklifts | 3 | 8 | 82 | 0.20 |
| Building Construction | Generator Sets | 1 | 8 | 14 | 0.74 |
| Building Construction | Cranes | 1 | 3.5 | 367 | 0.29 |
| Building Construction | Welders | 1 | 8 | 46 | 0.45 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7 | 84 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6 | 37 | 0.48 |

| Construction Trips | Worker Trip | Vendor Trip | Hauling Trip | Worker Trip | Vendor Trip | Hauling Trip |
|---|---|---|---|---|---|---|
| Phase Name | Number | Number | Number | Length | Length | Length |
| Demolition | 15 | 4 | 0.95 | 7.7 | 4 | 20 |
| Site Preparation | 17.5 | 4 | 0 | 7.7 | 4 | 20 |
| Grading | 20 | 4 | 20.83 | 7.7 | 4 | 20 |
| Paving | 15 | 4 | 0 | 7.7 | 4 | 20 |
| Trenching/Utilities | 10 | 4 | 0 | 7.7 | 4 | 20 |
| Building Construction | 58.32 | 17.32 | 0 | 7.7 | 4 | 20 |
| Architectural Coating | 11.664 | 4 | 0 | 7.7 | 4 | 20 |

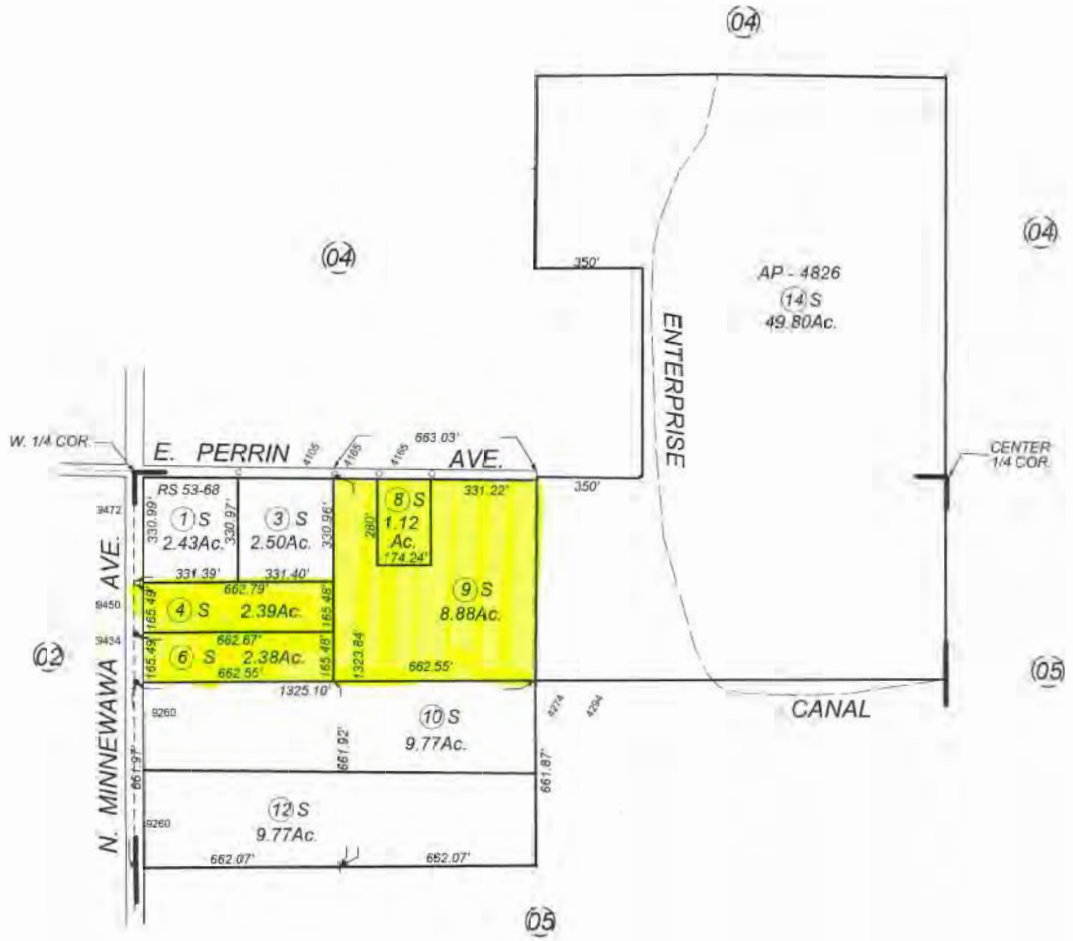

TM6467 Project Vicinity Map
Legend
Project Site
N Minnewawa Ave
Perrin Rd
Perrin Rd
North Marion Avenue
Heirloom Ln
Bloom Ave
Vintage Ln
Pioneer Ln
Farmhouse Ln
Hughes Ave
Nosmun Ave
N Preuss Ave
Bloom Ave
Vintage Ave
N
1000 ft
Google Earth

-NOTE-
This map is for Assessment purposes only. It is not to be construed as portraying legal ownership or divisions of land for purposes of zoning or subdivision law.

# POR. SEC. 20, T.12 S., R. 21 E., M.D.B.&M.

Tax Rate Area 76-052 **556-03**

N
1"=400'

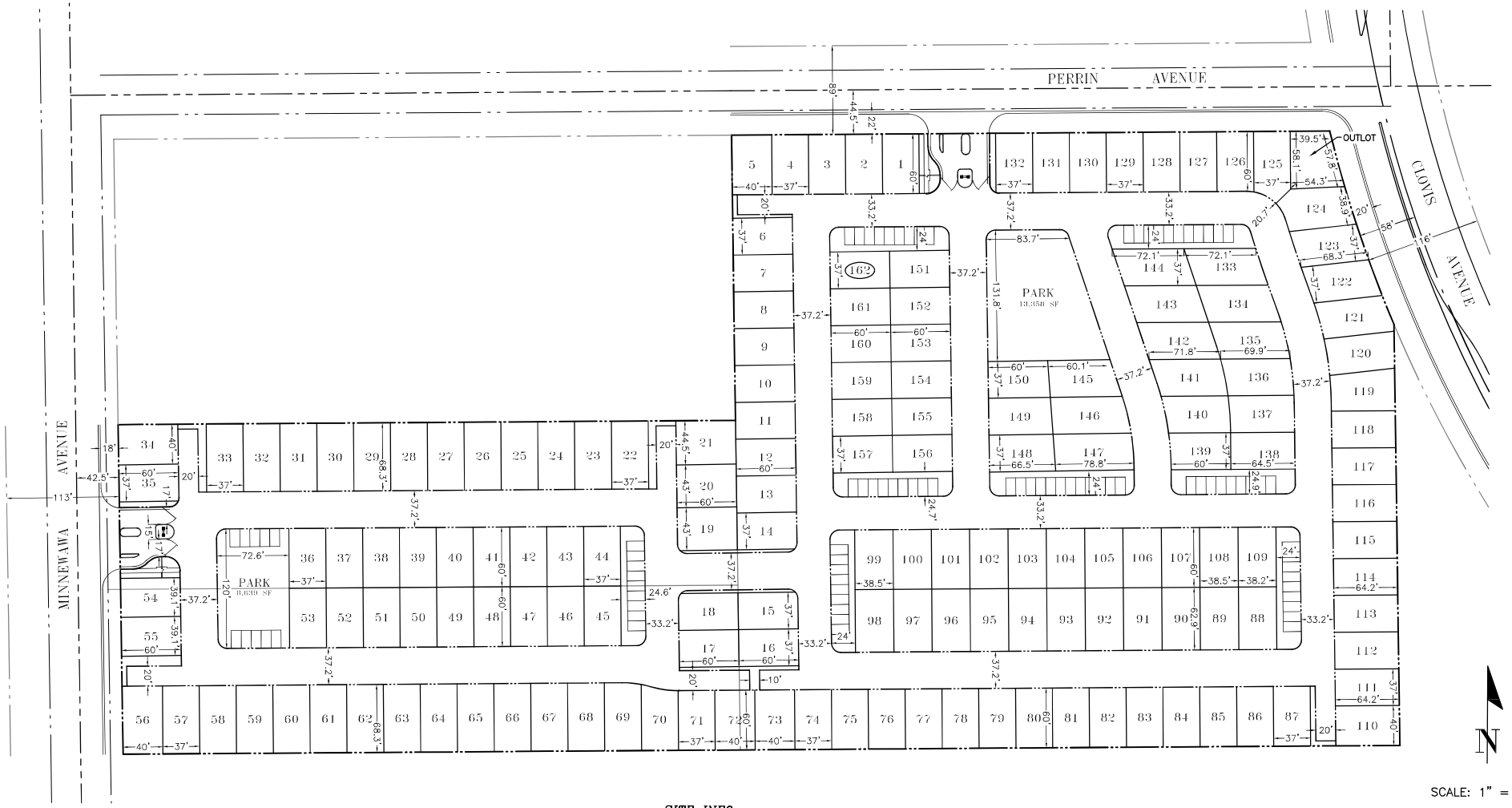



Record of Survey - Bk.53, Pg.68

Note - Assessor's Block Numbers Shown in Ellipses
Assessor's Parcel Numbers Shown in Circles

Assessor's Map Bk. 556 - Pg. 03
County of Fresno, Calif.

4/7/2022




SCALE: 1" = 100'

*SITE INFO*
*37' X 60' LOTS*
*14.57 GROSS AC*
*13.95 NET AC*
*162 LOTS*
*DENSITY: 11.61 U/AC*
*87 PARKING STALLS*
*MAXIMUM LOTS:*
*MEDIUM – 7.0 DU/AC * 4.71 NET AC = 32.97 DU*
*MEDIUM–HIGH – 15 DU/AC * 9.24 NET AC = 138.60 DU*
*TOTAL DU ALLOWED = (32.97+138.6) = 171 LOTS*

TM6467

**LAYOUT 5 - 37'x60' LOTS**
**WITH PASEO CORNER**

8-14-23

Harbour & Associates
*Civil Engineers*
389 Clovis Avenue, Suite 300 • Clovis, California 93612
(559) 325-7676 • Fax (559) 325-7699 • e-mail geoffe@harbour-engineering.com

AGENDA ITEM NO. 17.

# TM6467 Clovis Custom Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field | Value |
|---|---|
| Project Name | TM6467 Clovis |
| Construction Start Date | 11/1/2024 |
| Operational Year | 2025 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.70 |
| Precipitation (days) | 21.2 |
| Location | 36.872631, -119.708339 |
| County | Fresno |
| City | Unincorporated |
| Air District | San Joaquin Valley APCD |
| Air Basin | San Joaquin Valley |
| TAZ | 2569 |
| EDFZ | 5 |
| Electric Utility | Pacific Gas & Electric Company |
| Gas Utility | Pacific Gas & Electric |
| App Version | 2022.1.1.21 |

## 1.2. Land Use Types

| Land Use Subtype | Size | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Single Family Housing | 162 | Dwelling Unit | 8.30 | 315,900 | 1,897,483 | — | 518 | 162 single-family residential homes |
| City Park | 0.50 | Acre | 0.50 | 0.00 | 21,997 | 21,997 | — | Two parks totaling 21,997 square feet |
| Other Asphalt Surfaces | 5.07 | Acre | 5.07 | 0.00 | 22,063 | — | — | — |
| Other Non-Asphalt Surfaces | 0.73 | Acre | 0.73 | 0.00 | 3,180 | — | — | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 1.68 | 1.41 | 12.7 | 13.2 | 0.02 | 0.54 | 0.25 | 0.79 | 0.50 | 0.04 | 0.53 | — | 2,285 | 2,285 | 0.09 | 0.03 | 0.37 | 2,296 |
| 2026 | 1.35 | 1.15 | 8.85 | 13.8 | 0.02 | 0.32 | 0.56 | 0.88 | 0.29 | 0.11 | 0.40 | — | 2,539 | 2,539 | 0.10 | 0.07 | 1.73 | 2,563 |
| 2027 | 1.29 | 1.10 | 8.44 | 13.6 | 0.02 | 0.28 | 0.56 | 0.84 | 0.26 | 0.11 | 0.37 | — | 2,527 | 2,527 | 0.09 | 0.06 | 1.55 | 2,549 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 4.42 | 3.72 | 36.4 | 33.6 | 0.07 | 1.60 | 7.96 | 9.56 | 1.47 | 3.98 | 5.46 | — | 8,254 | 8,254 | 0.31 | 0.30 | 0.11 | 8,352 |
| 2025 | 3.95 | 3.30 | 31.7 | 29.4 | 0.07 | 1.26 | 4.29 | 5.55 | 1.16 | 1.58 | 2.74 | — | 8,222 | 8,222 | 0.31 | 0.29 | 0.11 | 8,318 |
| 2026 | 1.32 | 1.13 | 8.91 | 13.4 | 0.02 | 0.32 | 0.56 | 0.88 | 0.29 | 0.11 | 0.40 | — | 2,501 | 2,501 | 0.10 | 0.07 | 0.04 | 2,523 |
| 2027 | 1.26 | 1.07 | 8.49 | 13.3 | 0.02 | 0.28 | 0.56 | 0.84 | 0.26 | 0.11 | 0.37 | — | 2,489 | 2,489 | 0.10 | 0.06 | 0.04 | 2,511 |
| 2028 | 1.21 | 103 | 8.12 | 13.2 | 0.02 | 0.25 | 0.56 | 0.81 | 0.23 | 0.11 | 0.34 | — | 2,478 | 2,478 | 0.10 | 0.06 | 0.04 | 2,500 |

2818

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.44 | 0.37 | 3.58 | 3.19 | 0.01 | 0.15 | 0.38 | 0.53 | 0.14 | 0.16 | 0.30 | — | 623 | 623 | 0.02 | 0.01 | 0.08 | 628 |
| 2025 | 1.24 | 1.08 | 9.24 | 10.2 | 0.02 | 0.39 | 0.43 | 0.82 | 0.35 | 0.12 | 0.47 | — | 1,948 | 1,948 | 0.08 | 0.04 | 0.32 | 1,962 |
| 2026 | 0.95 | 0.81 | 6.34 | 9.61 | 0.01 | 0.23 | 0.39 | 0.62 | 0.21 | 0.08 | 0.29 | — | 1,794 | 1,794 | 0.07 | 0.05 | 0.53 | 1,810 |
| 2027 | 0.90 | 0.77 | 6.05 | 9.50 | 0.01 | 0.20 | 0.39 | 0.59 | 0.18 | 0.08 | 0.26 | — | 1,786 | 1,786 | 0.07 | 0.05 | 0.48 | 1,801 |
| 2028 | 0.06 | 5.66 | 0.39 | 0.62 | < 0.005 | 0.01 | 0.04 | 0.05 | 0.01 | 0.01 | 0.02 | — | 116 | 116 | < 0.005 | < 0.005 | 0.03 | 117 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.08 | 0.07 | 0.65 | 0.58 | < 0.005 | 0.03 | 0.07 | 0.10 | 0.03 | 0.03 | 0.06 | — | 103 | 103 | < 0.005 | < 0.005 | 0.01 | 104 |
| 2025 | 0.23 | 0.20 | 1.69 | 1.86 | < 0.005 | 0.07 | 0.08 | 0.15 | 0.06 | 0.02 | 0.09 | — | 322 | 322 | 0.01 | 0.01 | 0.05 | 325 |
| 2026 | 0.17 | 0.15 | 1.16 | 1.75 | < 0.005 | 0.04 | 0.07 | 0.11 | 0.04 | 0.01 | 0.05 | — | 297 | 297 | 0.01 | 0.01 | 0.09 | 300 |
| 2027 | 0.16 | 0.14 | 1.10 | 1.73 | < 0.005 | 0.04 | 0.07 | 0.11 | 0.03 | 0.01 | 0.05 | — | 296 | 296 | 0.01 | 0.01 | 0.08 | 298 |
| 2028 | 0.01 | 1.03 | 0.07 | 0.11 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 19.2 | 19.2 | < 0.005 | < 0.005 | 0.01 | 19.4 |

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Sector | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 5.53 | 5.28 | 3.49 | 34.1 | 0.07 | 0.05 | 5.73 | 5.78 | 0.04 | 1.45 | 1.49 | — | 6,958 | 6,958 | 0.31 | 0.35 | 24.5 | 7,093 |
| Area | 1.03 | 8.26 | 1.43 | 9.74 | 0.01 | 0.11 | — | 0.11 | 0.11 | — | 0.11 | 0.00 | 1,730 | 1,730 | 0.03 | < 0.005 | — | 1,732 |
| Energy | 0.19 | 0.09 | 1.59 | 0.68 | 0.01 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 2,866 | 2,866 | 0.32 | 0.02 | — | 2,880 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 12.5 | 58.8 | 71.3 | 1.29 | 0.03 | — | 113 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 77.5 | 0.00 | 77.5 | 7.75 | 0.00 | — | 271 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.26 | 2.26 |
| Total | 6.75 | 13.6 | 6.51 | 44.5 | 0.09 | 0.29 | 5.73 | 6.02 | 0.28 | 1.45 | 1.73 | 90.0 | 11,613 | 11,703 | 9.70 | 0.40 | 26.8 | 12,092 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 4.81 | 4.53 | 4.05 | 30.1 | 0.06 | 0.05 | 5.73 | 5.78 | 0.04 | 1.45 | 1.49 | — | 6,296 | 6,296 | 0.39 | 0.38 | 0.64 | 6,418 |
| Area | 0.16 | 7.43 | 1.34 | 0.57 | 0.01 | 0.11 | — | 0.11 | 0.11 | — | 0.11 | 0.00 | 1,706 | 1,706 | 0.03 | < 0.005 | — | 1,707 |
| Energy | 0.19 | 0.09 | 1.59 | 0.68 | 0.01 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 2,866 | 2,866 | 0.32 | 0.02 | — | 2,880 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 12.5 | 58.8 | 71.3 | 1.29 | 0.03 | — | 113 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 77.5 | 0.00 | 77.5 | 7.75 | 0.00 | — | 271 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.26 | 2.26 |
| Total | 5.15 | 12.1 | 6.98 | 31.3 | 0.08 | 0.28 | 5.73 | 6.01 | 0.28 | 1.45 | 1.73 | 90.0 | 10,927 | 11,017 | 9.78 | 0.43 | 2.90 | 11,393 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 4.82 | 4.56 | 3.69 | 29.0 | 0.06 | 0.05 | 5.54 | 5.59 | 0.04 | 1.40 | 1.44 | — | 6,360 | 6,360 | 0.34 | 0.35 | 10.4 | 6,484 |
| Area | 0.47 | 7.78 | 0.35 | 4.65 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | 0.00 | 395 | 395 | 0.01 | < 0.005 | — | 396 |
| Energy | 0.19 | 0.09 | 1.59 | 0.68 | 0.01 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 2,866 | 2,866 | 0.32 | 0.02 | — | 2,880 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 12.5 | 58.8 | 71.3 | 1.29 | 0.03 | — | 113 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 77.5 | 0.00 | 77.5 | 7.75 | 0.00 | — | 271 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.26 | 2.26 |
| Total | 5.47 | 12.4 | 5.62 | 34.3 | 0.07 | 0.20 | 5.54 | 5.74 | 0.20 | 1.40 | 1.60 | 90.0 | 9,681 | 9,771 | 9.71 | 0.41 | 12.6 | 10,147 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 0.88 | 0.83 | 0.67 | 5.29 | 0.01 | 0.01 | 1.01 | 1.02 | 0.01 | 0.26 | 0.26 | — | 1,053 | 1,053 | 0.06 | 0.06 | 1.72 | 1,074 |
| Area | 0.08 | 1.42 | 0.06 | 0.85 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.00 | 65.4 | 65.4 | < 0.005 | < 0.005 | — | 65.5 |
| Energy | 0.03 | 0.02 | 0.29 | 0.12 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 475 | 475 | 0.05 | < 0.005 | — | 477 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 2.07 | 9.73 | 11.8 | 0.21 | 0.01 | — | 18.7 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 12.8 | 0.00 | 12.8 | 1.28 | 0.00 | — | 44.9 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.37 | 0.37 |
| Total | 1.00 | 2.27 | 1.03 | 6.26 | 0.01 | 0.04 | 1.01 | 1.05 | 0.04 | 0.26 | 0.29 | 14.9 | 1,603 | 1,618 | 1.61 | 0.07 | 2.09 | 1,680 |

AGENDA ITEM NO. 17.

# 3. Construction Emissions Details

## 3.1. Demolition (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 3.12 | 2.62 | 24.9 | 21.7 | 0.03 | 1.06 | — | 1.06 | 0.98 | — | 0.98 | — | 3,425 | 3,425 | 0.14 | 0.03 | — | 3,437 |
| Demolition | — | — | — | — | — | — | 0.05 | 0.05 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.49 | 5.49 | < 0.005 | < 0.005 | < 0.005 | 5.77 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.17 | 0.14 | 1.36 | 1.19 | < 0.005 | 0.06 | — | 0.06 | 0.05 | — | 0.05 | — | 188 | 188 | 0.01 | < 0.005 | — | 188 |
| Demolition | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.30 | 0.30 | < 0.005 | < 0.005 | < 0.005 | 0.31 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.03 | 0.25 | 0.22 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 31.1 | 31.1 | < 0.005 | < 0.005 | — | 31.2 |
| Demolition | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |

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AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.05 | 0.05 | < 0.005 | < 0.005 | < 0.005 | 0.05 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.06 | 0.05 | 0.49 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 82.4 | 82.4 | < 0.005 | < 0.005 | 0.01 | 83.7 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 53.7 | 53.7 | < 0.005 | 0.01 | < 0.005 | 56.0 |
| Hauling | < 0.005 | < 0.005 | 0.09 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01 | — | 67.8 | 67.8 | < 0.005 | 0.01 | < 0.005 | 71.0 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.68 | 4.68 | < 0.005 | < 0.005 | 0.01 | 4.76 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.94 | 2.94 | < 0.005 | < 0.005 | < 0.005 | 3.07 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 3.71 | 3.71 | < 0.005 | < 0.005 | < 0.005 | 3.89 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.77 | 0.77 | < 0.005 | < 0.005 | < 0.005 | 0.79 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.49 | 0.49 | < 0.005 | < 0.005 | < 0.005 | 0.51 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.61 | 0.61 | < 0.005 | < 0.005 | < 0.005 | 0.64 |

## 3.3. Site Preparation (2024) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

2822

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.34 | 3.65 | 36.0 | 32.9 | 0.05 | 1.60 | — | 1.60 | 1.47 | — | 1.47 | — | 5,296 | 5,296 | 0.21 | 0.04 | — | 5,314 |
| Dust From Material Movement | — | — | — | — | — | — | 7.67 | 7.67 | — | 3.94 | 3.94 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.49 | 5.49 | < 0.005 | < 0.005 | < 0.005 | 5.77 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.12 | 0.10 | 0.99 | 0.90 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 145 | 145 | 0.01 | < 0.005 | — | 146 |
| Dust From Material Movement | — | — | — | — | — | — | 0.21 | 0.21 | — | 0.11 | 0.11 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.15 | 0.15 | < 0.005 | < 0.005 | < 0.005 | 0.16 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.02 | 0.18 | 0.16 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 24.0 | 24.0 | < 0.005 | < 0.005 | — | 24.1 |
| Dust From Material Movement | — | — | — | — | — | — | 0.04 | 0.04 | — | 0.02 | 0.02 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | 0.03 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 96.2 | 96.2 | < 0.005 | < 0.005 | 0.01 | 97.6 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 53.7 | 53.7 | < 0.005 | 0.01 | < 0.005 | 56.0 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.73 | 2.73 | < 0.005 | < 0.005 | 0.01 | 2.78 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.47 | 1.47 | < 0.005 | < 0.005 | < 0.005 | 1.53 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.45 | 0.45 | < 0.005 | < 0.005 | < 0.005 | 0.46 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.24 | 0.24 | < 0.005 | < 0.005 | < 0.005 | 0.25 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.5. Grading (2024) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.19 | 3.52 | 34.3 | 30.2 | 0.06 | 1.45 | — | 1.45 | 1.33 | — | 1.33 | — | 6,598 | 6,598 | 0.27 | 0.05 | — | 6,621 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dust From Material Movement | — | — | — | — | — | — | 3.59 | 3.59 | — | 1.43 | 1.43 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.49 | 5.49 | < 0.005 | < 0.005 | < 0.005 | 5.77 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 0.12 | 1.14 | 1.00 | < 0.005 | 0.05 | — | 0.05 | 0.04 | — | 0.04 | — | 220 | 220 | 0.01 | < 0.005 | — | 220 |
| Dust From Material Movement | — | — | — | — | — | — | 0.12 | 0.12 | — | 0.05 | 0.05 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.18 | 0.18 | < 0.005 | < 0.005 | < 0.005 | 0.19 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.02 | 0.21 | 0.18 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 36.3 | 36.3 | < 0.005 | < 0.005 | — | 36.5 |
| Dust From Material Movement | — | — | — | — | — | — | 0.02 | 0.02 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | 0.03 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.08 | 0.06 | 0.66 | 0.00 | 0.00 | 0.11 | 0.11 | 0.00 | 0.03 | 0.03 | — | 110 | 110 | 0.01 | 0.01 | 0.01 | 112 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 53.7 | 53.7 | < 0.005 | 0.01 | < 0.005 | 5 |
| Hauling | 0.07 | 0.03 | 1.92 | 0.44 | 0.01 | 0.03 | 0.39 | 0.41 | 0.03 | 0.11 | 0.13 | — | 1,487 | 1,487 | 0.03 | 0.24 | 0.09 | 1 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.79 | 3.79 | < 0.005 | < 0.005 | 0.01 | 3.85 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.78 | 1.78 | < 0.005 | < 0.005 | < 0.005 | 1.86 |
| Hauling | < 0.005 | < 0.005 | 0.06 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 49.4 | 49.4 | < 0.005 | 0.01 | 0.05 | 51.9 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.63 | 0.63 | < 0.005 | < 0.005 | < 0.005 | 0.64 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.30 | 0.30 | < 0.005 | < 0.005 | < 0.005 | 0.31 |
| Hauling | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 8.19 | 8.19 | < 0.005 | < 0.005 | 0.01 | 8.58 |

## 3.7. Grading (2025) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 3.80 | 3.20 | 29.7 | 28.3 | 0.06 | 1.23 | — | 1.23 | 1.14 | — | 1.14 | — | 6,599 | 6,599 | 0.27 | 0.05 | — | 6,622 |
| Dust From Material Movement | — | — | — | — | — | — | 3.59 | 3.59 | — | 1.43 | 1.43 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.19 | 0.16 | 1.51 | 1.44 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 336 | 336 | 0.01 | < 0.005 | — | 2826 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dust From Material Movement | — | — | — | — | — | — | 0.18 | 0.18 | — | 0.07 | 0.07 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.27 | 0.27 | < 0.005 | < 0.005 | < 0.005 | 0.28 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.28 | 0.26 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 55.6 | 55.6 | < 0.005 | < 0.005 | — | 55.8 |
| Dust From Material Movement | — | — | — | — | — | — | 0.03 | 0.03 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.04 | 0.04 | < 0.005 | < 0.005 | < 0.005 | 0.05 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.08 | 0.08 | 0.05 | 0.60 | 0.00 | 0.00 | 0.11 | 0.11 | 0.00 | 0.03 | 0.03 | — | 108 | 108 | < 0.005 | 0.01 | 0.01 | 109 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.7 | 52.7 | < 0.005 | 0.01 | < 0.005 | 55.1 |
| Hauling | 0.06 | 0.02 | 1.86 | 0.44 | 0.01 | 0.03 | 0.39 | 0.41 | 0.03 | 0.11 | 0.13 | — | 1,458 | 1,458 | 0.03 | 0.23 | 0.09 | 1,526 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 5.67 | 5.67 | < 0.005 | < 0.005 | 0.01 | 5.77 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.68 | 2.68 | < 0.005 | < 0.005 | < 0.005 | 2.80 |
| Hauling | < 0.005 | < 0.005 | 0.09 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.01 | 0.01 | — | 74.1 | 74.1 | < 0.005 | 0.01 | 0.08 | 77.7 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.94 | 0.94 | < 0.005 | < 0.005 | < 0.005 | 0.95 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.44 | 0.44 | < 0.005 | < 0.005 | < 0.005 | 0.45 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | < 0.005 | < 0.005 | 0.02 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 12.3 | 12.3 | < 0.005 | < 0.005 | 0.01 | 12.9 |

## 3.9. Building Construction (2025) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.15 | 0.96 | 8.84 | 11.7 | 0.02 | 0.37 | — | 0.37 | 0.34 | — | 0.34 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.20 | 0.17 | 1.54 | 2.03 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 342 | 342 | 0.01 | < 0.005 | — | 343 |
| Onsite truck | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | — | 0.93 | 0.93 | < 0.005 | < 0.005 | < 0.005 | 0.97 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.28 | 0.37 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 56.6 | 56.6 | < 0.005 | < 0.005 | — | 56.8 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.15 | 0.15 | < 0.005 | < 0.005 | < 0.005 | 0.16 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.24 | 0.22 | 0.16 | 1.76 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 314 | 314 | 0.01 | 0.02 | 0.03 | 319 |
| Vendor | 0.02 | 0.01 | 0.39 | 0.17 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 228 | 228 | 0.01 | 0.03 | 0.02 | 238 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.03 | 0.31 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 56.6 | 56.6 | < 0.005 | < 0.005 | 0.10 | 57.5 |
| Vendor | < 0.005 | < 0.005 | 0.07 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 39.7 | 39.7 | < 0.005 | 0.01 | 0.04 | 41.5 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | < 0.005 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 9.37 | 9.37 | < 0.005 | < 0.005 | 0.02 | 9.53 |
| Vendor | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 6.57 | 6.57 | < 0.005 | < 0.005 | 0.01 | 6.87 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.11. Building Construction (2026) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.09 | 0.91 | 8.35 | 11.6 | 0.02 | 0.32 | — | 0.32 | 0.29 | — | 0.29 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.18 | 5.18 | < 0.005 | < 0.005 | < 0.005 | 5.45 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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| Off-Road Equipment | 1.09 | 0.91 | 8.35 | 11.6 | 0.02 | 0.32 | — | 0.32 | 0.29 | — | 0.29 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.27 | 5.27 | < 0.005 | < 0.005 | < 0.005 | 5.53 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.78 | 0.65 | 5.96 | 8.30 | 0.01 | 0.23 | — | 0.23 | 0.21 | — | 0.21 | — | 1,403 | 1,403 | 0.06 | 0.01 | — | 1,408 |
| Onsite truck | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.12 | 0.12 | < 0.005 | 0.01 | 0.01 | — | 3.73 | 3.73 | < 0.005 | < 0.005 | < 0.005 | 3.91 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 0.12 | 1.09 | 1.51 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 232 | 232 | 0.01 | < 0.005 | — | 233 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 0.62 | 0.62 | < 0.005 | < 0.005 | < 0.005 | 0.65 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.25 | 0.23 | 0.12 | 2.00 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 346 | 346 | 0.01 | 0.02 | 1.20 | 352 |
| Vendor | 0.02 | 0.01 | 0.35 | 0.16 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 224 | 224 | 0.01 | 0.03 | 0.52 | 234 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.21 | 0.21 | 0.15 | 1.62 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 307 | 307 | 0.01 | 0.02 | 0.03 | 312 |
| Vendor | 0.02 | 0.01 | 0.38 | 0.17 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 224 | 224 | 0.01 | 0.03 | 0.01 | 234 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.16 | 0.15 | 0.09 | 1.18 | 0.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.05 | 0.05 | — | 227 | 227 | 0.01 | 0.01 | 0.37 | 231 |
| Vendor | 0.01 | 0.01 | 0.26 | 0.12 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01 | 0.01 | — | 160 | 160 | < 0.005 | 0.02 | 0.16 | 2830 |

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| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.02 | 0.21 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.01 | 0.01 | — | 37.6 | 37.6 | < 0.005 | < 0.005 | 0.06 | 38.3 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 26.5 | 26.5 | < 0.005 | < 0.005 | 0.03 | 27.7 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.13. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.04 | 0.87 | 7.96 | 11.6 | 0.02 | 0.28 | — | 0.28 | 0.26 | — | 0.26 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.07 | 5.07 | < 0.005 | < 0.005 | < 0.005 | 5.32 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.04 | 0.87 | 7.96 | 11.6 | 0.02 | 0.28 | — | 0.28 | 0.26 | — | 0.26 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.16 | 5.16 | < 0.005 | < 0.005 | < 0.005 | 5.42 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.74 | 0.62 | 5.68 | 8.29 | 0.01 | 0.20 | — | 0.20 | 0.18 | — | 0.18 | — | 1,403 | 1,403 | 0.06 | 0.01 | — | 1,408 |
| Onsite truck | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.12 | 0.12 | < 0.005 | 0.01 | 0.01 | — | 3.65 | 3.65 | < 0.005 | < 0.005 | < 0.005 | 3.83 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.14 | 0.11 | 1.04 | 1.51 | < 0.005 | 0.04 | — | 0.04 | 0.03 | — | 0.03 | — | 232 | 232 | 0.01 | < 0.005 | — | 233 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 0.60 | 0.60 | < 0.005 | < 0.005 | < 0.005 | 0.63 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.22 | 0.22 | 0.11 | 1.85 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 339 | 339 | 0.01 | 0.01 | 1.09 | 344 |
| Vendor | 0.02 | 0.01 | 0.34 | 0.15 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 219 | 219 | 0.01 | 0.03 | 0.46 | 229 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.20 | 0.18 | 0.13 | 1.50 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 301 | 301 | 0.01 | 0.02 | 0.03 | 306 |
| Vendor | 0.02 | 0.01 | 0.37 | 0.16 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 219 | 219 | 0.01 | 0.03 | 0.01 | 229 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.14 | 0.14 | 0.09 | 1.08 | 0.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.05 | 0.05 | — | 223 | 223 | 0.01 | 0.01 | 0.33 | 226 |
| Vendor | 0.01 | 0.01 | 0.25 | 0.11 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01 | 0.01 | — | 156 | 156 | < 0.005 | 0.02 | 0.14 | 163 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.02 | 0.20 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.01 | 0.01 | — | 36.9 | 36.9 | < 0.005 | < 0.005 | 0.06 | 37.5 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 25.9 | 25.9 | < 0.005 | < 0.005 | 0.02 | 27.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.15. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.00 | 0.84 | 7.61 | 11.6 | 0.02 | 0.25 | — | 0.25 | 0.23 | — | 0.23 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.05 | 5.05 | < 0.005 | < 0.005 | < 0.005 | 5.31 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.31 | 0.48 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 80.7 | 80.7 | < 0.005 | < 0.005 | — | 81.0 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.21 | 0.21 | < 0.005 | < 0.005 | < 0.005 | 0.22 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.06 | 0.09 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 13.4 | 13.4 | < 0.005 | < 0.005 | — | 13.4 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | 0.04 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.19 | 0.18 | 0.12 | 1.39 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 295 | 295 | 0.01 | 0.02 | 0.03 | 300 |
| Vendor | 0.02 | 0.01 | 0.35 | 0.16 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 214 | 214 | 0.01 | 0.03 | 0.01 | 224 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

AGENDA ITEM NO. 17.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | < 0.005 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 12.6 | 12.6 | < 0.005 | < 0.005 | 0.02 | 12.8 |
| Vendor | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 8.78 | 8.78 | < 0.005 | < 0.005 | 0.01 | 9.18 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.08 | 2.08 | < 0.005 | < 0.005 | < 0.005 | 2.11 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.45 | 1.45 | < 0.005 | < 0.005 | < 0.005 | 1.52 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.17. Paving (2025) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.95 | 0.80 | 7.45 | 9.98 | 0.01 | 0.35 | — | 0.35 | 0.32 | — | 0.32 | — | 1,511 | 1,511 | 0.06 | 0.01 | — | 1,517 |
| Paving | — | 0.66 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 0.04 | 0.41 | 0.55 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 82.8 | 82.8 | < 0.005 | < 0.005 | — | 83.1 |
| Paving | — | 0.04 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.29 | 0.29 | < 0.005 | < 0.005 | < 0.005 | 0.31 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.07 | 0.10 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 13.7 | 13.7 | < 0.005 | < 0.005 | — | 13.8 |
| Paving | — | 0.01 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.05 | 0.05 | < 0.005 | < 0.005 | < 0.005 | 0.05 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.06 | 0.04 | 0.45 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 80.7 | 80.7 | < 0.005 | < 0.005 | 0.01 | 82.0 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.7 | 52.7 | < 0.005 | 0.01 | < 0.005 | 55.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.58 | 4.58 | < 0.005 | < 0.005 | 0.01 | 4.66 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.89 | 2.89 | < 0.005 | < 0.005 | < 0.005 | 3.02 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.76 | 0.76 | < 0.005 | < 0.005 | < 0.005 | 0.77 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.48 | 0.48 | < 0.005 | < 0.005 | < 0.005 | 0.50 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.19. Architectural Coating (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.13 | 0.11 | 0.81 | 1.12 | < 0.005 | 0.02 | — | 0.02 | 0.01 | — | 0.01 | — | 134 | 134 | 0.01 | < 0.005 | — | 134 |
| Architectural Coatings | — | 102 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.05 | 0.04 | < 0.005 | < 0.005 | 0.28 | 0.28 | < 0.005 | 0.03 | 0.03 | — | 7.58 | 7.58 | < 0.005 | < 0.005 | < 0.005 | 7.97 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.04 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 7.32 | 7.32 | < 0.005 | < 0.005 | — | 7.34 |
| Architectural Coatings | — | 5.61 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.41 | 0.41 | < 0.005 | < 0.005 | < 0.005 | 0.43 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.21 | 1.21 | < 0.005 | < 0.005 | — | 1.22 |
| Architectural Coatings | — | 1.02 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.07 | 0.07 | < 0.005 | < 0.005 | < 0.005 | 0.07 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.02 | 0.28 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.01 | 0.01 | — | 59.1 | 59.1 | < 0.005 | < 0.005 | 0.01 | 60.0 |
| Vendor | < 0.005 | < 0.005 | 0.08 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 49.4 | 49.4 | < 0.005 | 0.01 | < 0.005 | 51.6 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.35 | 3.35 | < 0.005 | < 0.005 | < 0.005 | 3.40 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.70 | 2.70 | < 0.005 | < 0.005 | < 0.005 | 2.83 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.55 | 0.55 | < 0.005 | < 0.005 | < 0.005 | 0.56 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.45 | 0.45 | < 0.005 | < 0.005 | < 0.005 | 0.47 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.21. Utilities (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.63 | 1.37 | 12.6 | 12.8 | 0.02 | 0.54 | — | 0.54 | 0.50 | — | 0.50 | — | 2,166 | 2,166 | 0.09 | 0.02 | — | 2,174 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.29 | 5.29 | < 0.005 | < 0.005 | < 0.005 | 5.55 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.63 | 1.37 | 12.6 | 12.8 | 0.02 | 0.54 | — | 0.54 | 0.50 | — | 0.50 | — | 2,166 | 2,166 | 0.09 | 0.02 | — | 2,174 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.71 | 0.60 | 5.51 | 5.60 | 0.01 | 0.24 | — | 0.24 | 0.22 | — | 0.22 | — | 950 | 950 | 0.04 | 0.01 | — | 953 |
| Onsite truck | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | 0.08 | 0.08 | < 0.005 | 0.01 | 0.01 | — | 2.33 | 2.33 | < 0.005 | < 0.005 | < 0.005 | 2.45 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.13 | 0.11 | 1.01 | 1.02 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 157 | 157 | 0.01 | < 0.005 | — | 158 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.39 | 0.39 | < 0.005 | < 0.005 | < 0.005 | 0.41 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.05 | 0.04 | 0.02 | 0.37 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 60.6 | 60.6 | < 0.005 | < 0.005 | 0.23 | 61.7 |
| Vendor | < 0.005 | < 0.005 | 0.08 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.6 | 52.6 | < 0.005 | 0.01 | 0.14 | 55.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.03 | 0.30 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 53.8 | 53.8 | < 0.005 | < 0.005 | 0.01 | 54.6 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.7 | 52.7 | < 0.005 | 0.01 | < 0.005 | 55.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | 0.02 | 0.02 | 0.01 | 0.13 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | — | 24.4 | 24.4 | < 0.005 | < 0.005 | 0.04 | 24.8 |
| Vendor | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 23.1 | 23.1 | < 0.005 | < 0.005 | 0.03 | 24.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.04 | 4.04 | < 0.005 | < 0.005 | 0.01 | 4.11 |
| Vendor | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 3.82 | 3.82 | < 0.005 | < 0.005 | < 0.005 | 4.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

# 4. Operations Emissions Details

## 4.1. Mobile Emissions by Land Use

### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 5.53 | 5.28 | 3.49 | 34.1 | 0.07 | 0.05 | 5.73 | 5.78 | 0.04 | 1.45 | 1.49 | — | 6,958 | 6,958 | 0.31 | 0.35 | 24.5 | 7,093 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 5.53 | 5.28 | 3.49 | 34.1 | 0.07 | 0.05 | 5.73 | 5.78 | 0.04 | 1.45 | 1.49 | — | 6,958 | 6,958 | 0.31 | 0.35 | 24.5 | 7,093 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 4.81 | 4.53 | 4.05 | 30.1 | 0.06 | 0.05 | 5.73 | 5.78 | 0.04 | 1.45 | 1.49 | — | 6,296 | 6,296 | 0.39 | 0.38 | 0.64 | 6,418 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 4.81 | 4.53 | 4.05 | 30.1 | 0.06 | 0.05 | 5.73 | 5.78 | 0.04 | 1.45 | 1.49 | — | 6,296 | 6,296 | 0.39 | 0.38 | 0.64 | 6,418 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 0.88 | 0.83 | 0.67 | 5.29 | 0.01 | 0.01 | 1.01 | 1.02 | 0.01 | 0.26 | 0.26 | — | 1,053 | 1,053 | 0.06 | 0.06 | 1.72 | 1,074 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.88 | 0.83 | 0.67 | 5.29 | 0.01 | 0.01 | 1.01 | 1.02 | 0.01 | 0.26 | 0.26 | — | 1,053 | 1,053 | 0.06 | 0.06 | 1.72 | 1,074 |

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | 846 | 846 | 0.14 | 0.02 | — | 855 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 846 | 846 | 0.14 | 0.02 | — | 855 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | 846 | 846 | 0.14 | 0.02 | — | 855 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 846 | 846 | 0.14 | 0.02 | — | 855 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | 140 | 140 | 0.02 | < 0.005 | — | 141 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 140 | 140 | 0.02 | < 0.005 | — | 141 |

### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 0.19 | 0.09 | 1.59 | 0.68 | 0.01 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 2,020 | 2,020 | 0.18 | < 0.005 | — | 2,026 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 0.19 | 0.09 | 1.59 | 0.68 | 0.01 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 2,020 | 2,020 | 0.18 | < 0.005 | — | 2,026 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 0.19 | 0.09 | 1.59 | 0.68 | 0.01 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 2,020 | 2,020 | 0.18 | < 0.005 | — | 2,026 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 0.19 | 0.09 | 1.59 | 0.68 | 0.01 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 2,020 | 2,020 | 0.18 | < 0.005 | — | 2,026 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 0.03 | 0.02 | 0.29 | 0.12 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 334 | 334 | 0.03 | < 0.005 | — | 335 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 0.03 | 0.02 | 0.29 | 0.12 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 334 | 334 | 0.03 | < 0.005 | — | 335 |

## 4.3. Area Emissions by Source

### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Source | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.16 | 0.08 | 1.34 | 0.57 | 0.01 | 0.11 | — | 0.11 | 0.11 | — | 0.11 | 0.00 | 1,706 | 1,706 | 0.03 | < 0.005 | — | 1,707 |
| Consumer Products | — | 6.79 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Architectural | — | 0.56 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.87 | 0.83 | 0.09 | 9.17 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 24.6 | 24.6 | < 0.005 | < 0.005 | — | 24.7 |
| Total | 1.03 | 8.26 | 1.43 | 9.74 | 0.01 | 0.11 | — | 0.11 | 0.11 | — | 0.11 | 0.00 | 1,730 | 1,730 | 0.03 | < 0.005 | — | 1,732 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.16 | 0.08 | 1.34 | 0.57 | 0.01 | 0.11 | — | 0.11 | 0.11 | — | 0.11 | 0.00 | 1,706 | 1,706 | 0.03 | < 0.005 | — | 1,707 |
| Consumer Products | — | 6.79 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.56 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 0.16 | 7.43 | 1.34 | 0.57 | 0.01 | 0.11 | — | 0.11 | 0.11 | — | 0.11 | 0.00 | 1,706 | 1,706 | 0.03 | < 0.005 | — | 1,707 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.01 | < 0.005 | 0.06 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.00 | 63.4 | 63.4 | < 0.005 | < 0.005 | — | 63.5 |
| Consumer Products | — | 1.24 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.10 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.08 | 0.07 | 0.01 | 0.83 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.01 | 2.01 | < 0.005 | < 0.005 | — | 2.01 |
| Total | 0.08 | 1.42 | 0.06 | 0.85 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.00 | 65.4 | 65.4 | < 0.005 | < 0.005 | — | 65.5 |

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 12.5 | 57.4 | 69.9 | 1.29 | 0.03 | — | 112 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.91 | 0.91 | < 0.005 | < 0.005 | — | 0.92 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.41 | 0.41 | < 0.005 | < 0.005 | — | 0.41 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.06 | 0.06 | < 0.005 | < 0.005 | — | 0.06 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 12.5 | 58.8 | 71.3 | 1.29 | 0.03 | — | 113 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 12.5 | 57.4 | 69.9 | 1.29 | 0.03 | — | 112 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.91 | 0.91 | < 0.005 | < 0.005 | — | 0.92 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.41 | 0.41 | < 0.005 | < 0.005 | — | 0.41 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.06 | 0.06 | < 0.005 | < 0.005 | — | 0.06 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 12.5 | 58.8 | 71.3 | 1.29 | 0.03 | — | 113 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 2.07 | 9.51 | 11.6 | 0.21 | 0.01 | — | 18.5 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.15 | 0.15 | < 0.005 | < 0.005 | — | 0.15 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.07 | 0.07 | < 0.005 | < 0.005 | — | 0.07 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | 0.01 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 2.07 | 9.73 | 11.8 | 0.21 | 0.01 | — | 18.7 |

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 77.5 | 0.00 | 77.5 | 7.75 | 0.00 | — | 271 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.02 | 0.00 | 0.02 | < 0.005 | 0.00 | — | 0.08 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 77.5 | 0.00 | 77.5 | 7.75 | 0.00 | — | 271 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 77.5 | 0.00 | 77.5 | 7.75 | 0.00 | — | 271 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.02 | 0.00 | 0.02 | < 0.005 | 0.00 | — | 0.08 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 77.5 | 0.00 | 77.5 | 7.75 | 0.00 | — | 271 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 12.8 | 0.00 | 12.8 | 1.28 | 0.00 | — | 44.9 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | — | 0.01 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 12.8 | 0.00 | 12.8 | 1.28 | 0.00 | — | 44.9 |

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.26 | 2.26 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.26 | 2.26 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.26 | 2.26 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.26 | 2.26 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.37 | 0.37 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.37 | 0.37 |

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

2848

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.8. Stationary Emissions By Equipment Type

### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

AGENDA ITEM NO. 17.

| Equipment Type | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.10. Soil Carbon Accumulation By Vegetation Type

### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

2850

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

# 5. Activity Data

## 5.1. Construction Schedule

| Phase Name | Phase Type | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|---|---|---|---|---|---|---|
| Demolition | Demolition | 11/1/2024 | 11/29/2024 | 5.00 | 20.0 | — |
| Site Preparation | Site Preparation | 11/30/2024 | 12/14/2024 | 5.00 | 10.0 | — |

AGENDA ITEM NO. 17.

| | | | | | | |
|---|---|---|---|---|---|---|
| Grading | Grading | 12/15/2024 | 1/26/2025 | 5.00 | 30.0 | — |
| Building Construction | Building Construction | 10/04/2025 | 1/21/2028 | 5.00 | 600 | — |
| Paving | Paving | 1/27/2025 | 2/21/2025 | 5.00 | 20.0 | — |
| Architectural Coating | Architectural Coating | 1/22/2028 | 2/18/2028 | 5.00 | 20.0 | — |
| Utilities | Trenching | 2/22/2025 | 10/03/2025 | 5.00 | 160 | — |

## 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|---|
| Demolition | Rubber Tired Dozers | Diesel | Average | 2.00 | 8.00 | 367 | 0.40 |
| Demolition | Excavators | Diesel | Average | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Concrete/Industrial Saws | Diesel | Average | 1.00 | 8.00 | 33.0 | 0.73 |
| Site Preparation | Rubber Tired Dozers | Diesel | Average | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Average | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Excavators | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Grading | Scrapers | Diesel | Average | 2.00 | 8.00 | 423 | 0.48 |
| Grading | Rubber Tired Dozers | Diesel | Average | 1.00 | 8.00 | 367 | 0.40 |
| Building Construction | Forklifts | Diesel | Average | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Cranes | Diesel | Average | 1.00 | 3.50 | 367 | 0.29 |
| Building Construction | Welders | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Average | 3.00 | 7.00 | 84.0 | 0.37 |

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|---|---|---|---|---|---|---|---|
| Paving | Pavers | Diesel | Average | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Average | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |
| Utilities | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Utilities | Trenchers | Diesel | Average | 1.00 | 8.00 | 40.0 | 0.50 |
| Utilities | Rubber Tired Dozers | Diesel | Average | 1.00 | 8.00 | 367 | 0.40 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|---|---|---|---|---|
| Demolition | — | — | — | — |
| Demolition | Worker | 15.0 | 7.70 | LDA,LDT1,LDT2 |
| Demolition | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Demolition | Hauling | 0.95 | 20.0 | HHDT |
| Demolition | Onsite truck | 2.00 | 0.25 | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 17.5 | 7.70 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | 2.00 | 0.25 | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 20.0 | 7.70 | LDA,LDT1,LDT2 |
| Grading | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Grading | Hauling | 20.8 | 20.0 | HHDT |
| Grading | Onsite truck | 2.00 | 0.25 | HHDT |

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| | | | | |
|---|---|---|---|---|
| Building Construction | — | — | — | — |
| Building Construction | Worker | 58.3 | 7.70 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 17.3 | 4.00 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | 2.00 | 0.25 | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 15.0 | 7.70 | LDA,LDT1,LDT2 |
| Paving | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | 2.00 | 0.25 | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 11.7 | 7.70 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | 3.00 | 0.25 | HHDT |
| Utilities | — | — | — | — |
| Utilities | Worker | 10.0 | 7.70 | LDA,LDT1,LDT2 |
| Utilities | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Utilities | Hauling | 0.00 | 20.0 | HHDT |
| Utilities | Onsite truck | 2.00 | 0.25 | HHDT |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

| Control Strategies Applied | PM10 Reduction | PM2.5 Reduction |
|---|---|---|
| Water unpaved roads twice daily | 55% | 55% |
| Limit vehicle speeds on unpaved roads to 25 mph | 44% | 44% |

## 5.5. Architectural Coatings

| Phase Name | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|---|---|---|---|---|---|
| Architectural Coating | 639,698 | 213,233 | 0.00 | 0.00 | 15,146 |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (Building Square Footage) | Acres Paved (acres) |
|---|---|---|---|---|---|
| Demolition | 0.00 | 0.00 | 0.00 | 1,650 | — |
| Site Preparation | — | — | 15.0 | 0.00 | — |
| Grading | 2,500 | 2,500 | 90.0 | 0.00 | — |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 7.58 |

### 5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|---|---|---|---|
| Water Exposed Area | 2 | 61% | 61% |
| Water Demolished Area | 2 | 36% | 36% |

## 5.7. Construction Paving

| Land Use | Area Paved (acres) | % Asphalt |
|---|---|---|
| Single Family Housing | 1.79 | 0% |
| City Park | 0.00 | 0% |
| Other Asphalt Surfaces | 5.07 | 100% |
| Other Non-Asphalt Surfaces | 0.73 | 0% |

## 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4 | N2O |
|---|---|---|---|---|
| 2024 | 0.00 | 204 | 0.03 | < 0.005 |
| 2025 | 0.00 | 204 | 0.03 | < 0.005 |
| 2026 | 0.00 | 204 | 0.03 | < 0.005 |
| 2027 | 0.00 | 204 | 0.03 | < 0.005 |
| 2028 | 0.00 | 204 | 0.03 | < 0.005 |

## 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

| Land Use Type | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year |
|---|---|---|---|---|---|---|---|---|
| Single Family Housing | 1,528 | 1,536 | 1,374 | 549,993 | 8,135 | 8,178 | 7,316 | 2,928,862 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

| Hearth Type | Unmitigated (number) |
|---|---|
| Single Family Housing | — |

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|---|---|
| Wood Fireplaces | 0 |
| Gas Fireplaces | 81 |
| Propane Fireplaces | 0 |
| Electric Fireplaces | 0 |
| No Fireplaces | 81 |
| Conventional Wood Stoves | 0 |
| Catalytic Wood Stoves | 8 |
| Non-Catalytic Wood Stoves | 8 |
| Pellet Wood Stoves | 0 |

### 5.10.2. Architectural Coatings

| Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|---|---|---|---|---|
| 639697.5 | 213,233 | 0.00 | 0.00 | 15,146 |

### 5.10.3. Landscape Equipment

| Season | Unit | Value |
|---|---|---|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 180 |

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

| Land Use | Electricity (kWh/yr) | CO2 | CH4 | N2O | Natural Gas (kBTU/yr) |
|---|---|---|---|---|---|
| Single Family Housing | 1,514,146 | 204 | 0.0330 | 0.0040 | 6,303,796 |
| City Park | 0.00 | 204 | 0.0330 | 0.0040 | 0.00 |

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| | | | | | |
|---|---|---|---|---|---|
| Other Asphalt Surfaces | 0.00 | 204 | 0.0330 | 0.0040 | 0.00 |
| Other Non-Asphalt Surfaces | 0.00 | 204 | 0.0330 | 0.0040 | 0.00 |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|---|---|---|
| Single Family Housing | 6,527,952 | 31,835,405 |
| City Park | 0.00 | 671,017 |
| Other Asphalt Surfaces | 0.00 | 302,866 |
| Other Non-Asphalt Surfaces | 0.00 | 43,651 |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|---|---|---|
| Single Family Housing | 144 | — |
| City Park | 0.04 | — |
| Other Asphalt Surfaces | 0.00 | — |
| Other Non-Asphalt Surfaces | 0.00 | — |

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

| Land Use Type | Equipment Type | Refrigerant | GWP | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|---|---|---|---|---|---|---|---|
| Single Family Housing | Average room A/C & Other residential A/C and heat pumps | R-410A | 2,088 | < 0.005 | 2.50 | 2.50 | 10.0 |

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|---|---|---|---|---|---|---|---|
| Single Family Housing | Household refrigerators and/or freezers | R-134a | 1,430 | 0.12 | 0.60 | 0.00 | 1.00 |
| City Park | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| City Park | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

| Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

| Equipment Type | Fuel Type | Number per Day | Hours per Day | Hours per Year | Horsepower | Load Factor |
|---|---|---|---|---|---|---|

### 5.16.2. Process Boilers

| Equipment Type | Fuel Type | Number | Boiler Rating (MMBtu/hr) | Daily Heat Input (MMBtu/day) | Annual Heat Input (MMBtu/yr) |
|---|---|---|---|---|---|

## 5.17. User Defined

| Equipment Type | Fuel Type |
|---|---|

## 5.18. Vegetation

### 5.18.1. Land Use Change

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### 5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|---|---|---|---|

### 5.18.1. Biomass Cover Type

### 5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|---|---|---|

### 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|---|---|---|---|

## 8. User Changes to Default Data

| Screen | Justification |
|---|---|
| Land Use | Land uses based on the project site plan. 162 single-family residential homes and 2 parks on approximately 14.57 gross acres. Acreage for homes based on lot sizes. |
| Construction: Construction Phases | Lot development to occur prior to building construction.<br>Construction to start as early as November 2024 and last until 2028. Utilities phase added and building construction phase doubled to reflect applicant-provided construction schedule. |
| Operations: Vehicle Data | Trip rates for single-family housing from the ITE Trip Generation Rates, 11th Edition.<br>ITE Land Use Code 210 (Single-family detached housing)<br>The parks will serve as amenities for the subdivision. |
| Operations: Fleet Mix | SJVAPCD-approved residential fleet mix for the 2025 operational year applied to single-family homes. |
| Operations: Hearths | SJVAPCD Rule 4901 Woodburning<br>No woodburning fireplaces or wood stoves |
| Construction: Off-Road Equipment | Equipment added to the utilities phase. Crane usage adjusted to retain default HP hours, as the duration for the building construction phase was doubled. |

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# TM6467 Clovis - Localized Assessment Custom Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field | Value |
|---|---|
| Project Name | TM6467 Clovis - Localized Assessment |
| Construction Start Date | 11/1/2024 |
| Operational Year | 2025 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.70 |
| Precipitation (days) | 21.2 |
| Location | 36.872631, -119.708339 |
| County | Fresno |
| City | Unincorporated |
| Air District | San Joaquin Valley APCD |
| Air Basin | San Joaquin Valley |
| TAZ | 2569 |
| EDFZ | 5 |
| Electric Utility | Pacific Gas & Electric Company |
| Gas Utility | Pacific Gas & Electric |
| App Version | 2022.1.1.21 |

## 1.2. Land Use Types

| Land Use Subtype | Size | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|---|---|---|---|---|---|---|---|---|

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|---|---|---|---|---|---|---|---|---|
| Single Family Housing | 162 | Dwelling Unit | 8.30 | 315,900 | 1,897,483 | — | 518 | 162 single-family residential homes |
| City Park | 0.50 | Acre | 0.50 | 0.00 | 21,997 | 21,997 | — | Two parks totaling 21,997 square feet |
| Other Asphalt Surfaces | 5.07 | Acre | 5.07 | 0.00 | 22,063 | — | — | — |
| Other Non-Asphalt Surfaces | 0.73 | Acre | 0.73 | 0.00 | 3,180 | — | — | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 1.67 | 1.41 | 12.7 | 12.9 | 0.02 | 0.54 | 0.38 | 0.92 | 0.50 | 0.04 | 0.54 | — | 2,189 | 2,189 | 0.09 | 0.02 | 0.04 | 2,198 |
| 2026 | 1.32 | 1.13 | 8.63 | 12.3 | 0.02 | 0.32 | 0.40 | 0.72 | 0.29 | 0.04 | 0.34 | — | 2,047 | 2,047 | 0.09 | 0.03 | 0.15 | 2,059 |
| 2027 | 1.26 | 1.08 | 8.23 | 12.3 | 0.02 | 0.28 | 0.40 | 0.68 | 0.26 | 0.04 | 0.30 | — | 2,046 | 2,046 | 0.09 | 0.03 | 0.14 | 2,056 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 4.41 | 3.71 | 36.1 | 33.2 | 0.06 | 1.60 | 8.05 | 9.65 | 1.47 | 3.98 | 5.45 | — | 6,702 | 6,702 | 0.28 | 0.07 | < 0.005 | 6,730 |
| 2025 | 3.90 | 3.28 | 30.2 | 28.9 | 0.06 | 1.24 | 3.98 | 5.22 | 1.14 | 1.47 | 2.60 | — | 6,701 | 6,701 | 0.28 | 0.07 | < 0.005 | 6,728 |
| 2026 | 1.29 | 1.11 | 8.65 | 12.5 | 0.02 | 0.32 | 0.40 | 0.72 | 0.29 | 0.04 | 0.34 | — | 2,046 | 2,046 | 0.10 | 0.03 | < 0.005 | 2,057 |
| 2027 | 1.24 | 1.06 | 8.25 | 12.5 | 0.02 | 0.28 | 0.40 | 0.68 | 0.26 | 0.04 | 0.30 | — | 2,044 | 2,044 | 0.10 | 0.03 | < 0.005 | 2,055 |
| 2028 | 1.19 | 103 | 7.90 | 12.4 | 0.02 | 0.25 | 0.56 | 0.65 | 0.23 | 0.06 | 0.27 | — | 2,042 | 2,042 | 0.09 | 0.03 | < 0.005 | 2,051 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.44 | 0.37 | 3.51 | 3.14 | 0.01 | 0.15 | 0.37 | 0.52 | 0.14 | 0.16 | 0.30 | — | 558 | 558 | 0.02 | 0.01 | < 0.005 | 560 |
| 2025 | 1.22 | 1.07 | 9.09 | 9.88 | 0.02 | 0.38 | 0.44 | 0.83 | 0.35 | 0.10 | 0.45 | — | 1,741 | 1,741 | 0.07 | 0.02 | 0.02 | 1,749 |
| 2026 | 0.93 | 0.79 | 6.17 | 8.86 | 0.01 | 0.23 | 0.27 | 0.50 | 0.21 | 0.03 | 0.24 | — | 1,461 | 1,461 | 0.07 | 0.02 | 0.05 | 1,470 |
| 2027 | 0.88 | 0.76 | 5.89 | 8.81 | 0.01 | 0.20 | 0.27 | 0.47 | 0.18 | 0.03 | 0.21 | — | 1,460 | 1,460 | 0.07 | 0.02 | 0.04 | 1,468 |
| 2028 | 0.06 | 5.66 | 0.37 | 0.58 | < 0.005 | 0.01 | 0.04 | 0.06 | 0.01 | < 0.005 | 0.01 | — | 92.7 | 92.7 | < 0.005 | < 0.005 | < 0.005 | 93.2 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.08 | 0.07 | 0.64 | 0.57 | < 0.005 | 0.03 | 0.07 | 0.10 | 0.03 | 0.03 | 0.05 | — | 92.4 | 92.4 | < 0.005 | < 0.005 | < 0.005 | 92.8 |
| 2025 | 0.22 | 0.20 | 1.66 | 1.80 | < 0.005 | 0.07 | 0.08 | 0.15 | 0.06 | 0.02 | 0.08 | — | 288 | 288 | 0.01 | < 0.005 | < 0.005 | 290 |
| 2026 | 0.17 | 0.14 | 1.13 | 1.62 | < 0.005 | 0.04 | 0.05 | 0.09 | 0.04 | 0.01 | 0.04 | — | 242 | 242 | 0.01 | < 0.005 | 0.01 | 243 |
| 2027 | 0.16 | 0.14 | 1.07 | 1.61 | < 0.005 | 0.04 | 0.05 | 0.09 | 0.03 | 0.01 | 0.04 | — | 242 | 242 | 0.01 | < 0.005 | 0.01 | 243 |
| 2028 | 0.01 | 1.03 | 0.07 | 0.11 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 15.3 | 15.3 | < 0.005 | < 0.005 | < 0.005 | 15.4 |

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Sector | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 5.12 | 5.00 | 1.70 | 12.8 | 0.01 | 0.01 | 0.54 | 0.55 | 0.01 | 0.14 | 0.15 | — | 935 | 935 | 0.24 | 0.14 | 2.30 | 985 |
| Area | 1.03 | 8.26 | 1.43 | 9.74 | 0.01 | 0.11 | — | 0.11 | 0.11 | — | 0.11 | 0.00 | 1,730 | 1,730 | 0.03 | < 0.005 | — | 1,732 |
| Energy | 0.19 | 0.09 | 1.59 | 0.68 | 0.01 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 2,866 | 2,866 | 0.32 | 0.02 | — | 2,880 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 12.5 | 58.8 | 71.3 | 1.29 | 0.03 | — | 113 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 77.5 | 0.00 | 77.5 | 7.75 | 0.00 | — | 271 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.26 | 2.26 |
| Total | 6.34 | 13.3 | 4.73 | 23.2 | 0.03 | 0.25 | 0.54 | 0.79 | 0.25 | 0.14 | 0.39 | 90.0 | 5,590 | 5,680 | 9.63 | 0.20 | 4.56 | 5,984 |

2870

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 4.43 | 4.26 | 1.94 | 16.8 | 0.01 | 0.01 | 0.54 | 0.55 | 0.01 | 0.14 | 0.15 | — | 883 | 883 | 0.32 | 0.15 | 0.06 | 937 |
| Area | 0.16 | 7.43 | 1.34 | 0.57 | 0.01 | 0.11 | — | 0.11 | 0.11 | — | 0.11 | 0.00 | 1,706 | 1,706 | 0.03 | < 0.005 | — | 1,707 |
| Energy | 0.19 | 0.09 | 1.59 | 0.68 | 0.01 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 2,866 | 2,866 | 0.32 | 0.02 | — | 2,880 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 12.5 | 58.8 | 71.3 | 1.29 | 0.03 | — | 113 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 77.5 | 0.00 | 77.5 | 7.75 | 0.00 | — | 271 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.26 | 2.26 |
| Total | 4.77 | 11.8 | 4.87 | 18.1 | 0.03 | 0.25 | 0.54 | 0.79 | 0.25 | 0.14 | 0.38 | 90.0 | 5,513 | 5,603 | 9.71 | 0.21 | 2.32 | 5,911 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 4.43 | 4.29 | 1.76 | 14.0 | 0.01 | 0.01 | 0.52 | 0.53 | 0.01 | 0.13 | 0.14 | — | 878 | 878 | 0.28 | 0.14 | 0.97 | 928 |
| Area | 0.47 | 7.78 | 0.35 | 4.65 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | 0.00 | 395 | 395 | 0.01 | < 0.005 | — | 396 |
| Energy | 0.19 | 0.09 | 1.59 | 0.68 | 0.01 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 2,866 | 2,866 | 0.32 | 0.02 | — | 2,880 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 12.5 | 58.8 | 71.3 | 1.29 | 0.03 | — | 113 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 77.5 | 0.00 | 77.5 | 7.75 | 0.00 | — | 271 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.26 | 2.26 |
| Total | 5.08 | 12.2 | 3.70 | 19.3 | 0.02 | 0.17 | 0.52 | 0.69 | 0.17 | 0.13 | 0.30 | 90.0 | 4,198 | 4,288 | 9.64 | 0.20 | 3.24 | 4,591 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 0.81 | 0.78 | 0.32 | 2.55 | < 0.005 | < 0.005 | 0.09 | 0.10 | < 0.005 | 0.02 | 0.03 | — | 145 | 145 | 0.05 | 0.02 | 0.16 | 154 |
| Area | 0.08 | 1.42 | 0.06 | 0.85 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.00 | 65.4 | 65.4 | < 0.005 | < 0.005 | — | 65.5 |
| Energy | 0.03 | 0.02 | 0.29 | 0.12 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 475 | 475 | 0.05 | < 0.005 | — | 477 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 2.07 | 9.73 | 11.8 | 0.21 | 0.01 | — | 18.7 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 12.8 | 0.00 | 12.8 | 1.28 | 0.00 | — | 44.9 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.37 | 0.37 |
| Total | 0.93 | 2.22 | 0.68 | 3.52 | < 0.005 | 0.03 | 0.09 | 0.13 | 0.03 | 0.02 | 0.05 | 14.9 | 695 | 710 | 1.60 | 0.03 | 0.54 | 760 |

AGENDA ITEM NO. 17.

# 3. Construction Emissions Details

## 3.1. Demolition (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 3.12 | 2.62 | 24.9 | 21.7 | 0.03 | 1.06 | — | 1.06 | 0.98 | — | 0.98 | — | 3,425 | 3,425 | 0.14 | 0.03 | — | 3,437 |
| Demolition | — | — | — | — | — | — | 0.05 | 0.05 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.37 | 0.37 | < 0.005 | 0.04 | 0.04 | — | 7.23 | 7.23 | < 0.005 | < 0.005 | < 0.005 | 7.59 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.17 | 0.14 | 1.36 | 1.19 | < 0.005 | 0.06 | — | 0.06 | 0.05 | — | 0.05 | — | 188 | 188 | 0.01 | < 0.005 | — | 188 |
| Demolition | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 0.39 | 0.39 | < 0.005 | < 0.005 | < 0.005 | 0.41 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.03 | 0.25 | 0.22 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 31.1 | 31.1 | < 0.005 | < 0.005 | — | 31.2 |
| Demolition | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.07 | 0.07 | < 0.005 | < 0.005 | < 0.005 | 0.07 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.05 | 0.02 | 0.22 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 8.03 | 8.03 | < 0.005 | < 0.005 | < 0.005 | 8.58 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.03 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 10.8 | 10.8 | < 0.005 | < 0.005 | < 0.005 | 11.3 |
| Hauling | < 0.005 | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 3.43 | 3.43 | < 0.005 | < 0.005 | < 0.005 | 3.60 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.45 | 0.45 | < 0.005 | < 0.005 | < 0.005 | 0.48 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.59 | 0.59 | < 0.005 | < 0.005 | < 0.005 | 0.62 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.19 | 0.19 | < 0.005 | < 0.005 | < 0.005 | 0.20 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.07 | 0.07 | < 0.005 | < 0.005 | < 0.005 | 0.08 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.10 | 0.10 | < 0.005 | < 0.005 | < 0.005 | 0.10 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | 0.03 |

## 3.3. Site Preparation (2024) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

2873

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.34 | 3.65 | 36.0 | 32.9 | 0.05 | 1.60 | — | 1.60 | 1.47 | — | 1.47 | — | 5,296 | 5,296 | 0.21 | 0.04 | — | 5,314 |
| Dust From Material Movement | — | — | — | — | — | — | 7.67 | 7.67 | — | 3.94 | 3.94 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.37 | 0.37 | < 0.005 | 0.04 | 0.04 | — | 7.23 | 7.23 | < 0.005 | < 0.005 | < 0.005 | 7.59 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.12 | 0.10 | 0.99 | 0.90 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 145 | 145 | 0.01 | < 0.005 | — | 146 |
| Dust From Material Movement | — | — | — | — | — | — | 0.21 | 0.21 | — | 0.11 | 0.11 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.20 | 0.20 | < 0.005 | < 0.005 | < 0.005 | 0.21 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.02 | 0.18 | 0.16 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 24.0 | 24.0 | < 0.005 | < 0.005 | — | 24.1 |
| Dust From Material Movement | — | — | — | — | — | — | 0.04 | 0.04 | — | 0.02 | 0.02 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | 0.03 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.06 | 0.02 | 0.26 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 9.37 | 9.37 | < 0.005 | < 0.005 | < 0.005 | 10.0 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.03 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 10.8 | 10.8 | < 0.005 | < 0.005 | < 0.005 | 11.3 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.26 | 0.26 | < 0.005 | < 0.005 | < 0.005 | 0.28 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.29 | 0.29 | < 0.005 | < 0.005 | < 0.005 | 0.31 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.04 | 0.04 | < 0.005 | < 0.005 | < 0.005 | 0.05 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.05 | 0.05 | < 0.005 | < 0.005 | < 0.005 | 0.05 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.5. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.19 | 3.52 | 34.3 | 30.2 | 0.06 | 1.45 | — | 1.45 | 1.33 | — | 1.33 | — | 6,598 | 6,598 | 0.27 | 0.05 | — | 6,621 |

2875

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dust From Material Movement | — | — | — | — | — | — | 3.59 | 3.59 | — | 1.43 | 1.43 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.37 | 0.37 | < 0.005 | 0.04 | 0.04 | — | 7.23 | 7.23 | < 0.005 | < 0.005 | < 0.005 | 7.59 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 0.12 | 1.14 | 1.00 | < 0.005 | 0.05 | — | 0.05 | 0.04 | — | 0.04 | — | 220 | 220 | 0.01 | < 0.005 | — | 220 |
| Dust From Material Movement | — | — | — | — | — | — | 0.12 | 0.12 | — | 0.05 | 0.05 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.24 | 0.24 | < 0.005 | < 0.005 | < 0.005 | 0.25 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.02 | 0.21 | 0.18 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 36.3 | 36.3 | < 0.005 | < 0.005 | — | 36.5 |
| Dust From Material Movement | — | — | — | — | — | — | 0.02 | 0.02 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.04 | 0.04 | < 0.005 | < 0.005 | < 0.005 | 0.04 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.08 | 0.07 | 0.02 | 0.30 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 10.7 | 10.7 | 0.01 | < 0.005 | < 0.005 | 11.4 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.03 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 10.8 | 10.8 | < 0.005 | < 0.005 | < 0.005 | 11.2 |
| Hauling | 0.02 | 0.02 | 0.38 | 0.25 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 75.3 | 75.3 | 0.01 | 0.01 | < 0.005 | 118 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.36 | 0.36 | < 0.005 | < 0.005 | < 0.005 | 0.39 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.36 | 0.36 | < 0.005 | < 0.005 | < 0.005 | 0.37 |
| Hauling | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.49 | 2.49 | < 0.005 | < 0.005 | < 0.005 | 2.61 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.06 | 0.06 | < 0.005 | < 0.005 | < 0.005 | 0.06 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.06 | 0.06 | < 0.005 | < 0.005 | < 0.005 | 0.06 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.41 | 0.41 | < 0.005 | < 0.005 | < 0.005 | 0.43 |

## 3.7. Grading (2025) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 3.80 | 3.20 | 29.7 | 28.3 | 0.06 | 1.23 | — | 1.23 | 1.14 | — | 1.14 | — | 6,599 | 6,599 | 0.27 | 0.05 | — | 6,622 |
| Dust From Material Movement | — | — | — | — | — | — | 3.59 | 3.59 | — | 1.43 | 1.43 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.37 | 0.37 | < 0.005 | 0.04 | 0.04 | — | 7.08 | 7.08 | < 0.005 | < 0.005 | < 0.005 | 7.42 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.19 | 0.16 | 1.51 | 1.44 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 336 | 336 | 0.01 | < 0.005 | — | 2877 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dust From Material Movement | — | — | — | — | — | — | 0.18 | 0.18 | — | 0.07 | 0.07 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 0.36 | 0.36 | < 0.005 | < 0.005 | < 0.005 | 0.38 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.28 | 0.26 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 55.6 | 55.6 | < 0.005 | < 0.005 | — | 55.8 |
| Dust From Material Movement | — | — | — | — | — | — | 0.03 | 0.03 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.06 | 0.06 | < 0.005 | < 0.005 | < 0.005 | 0.06 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.07 | 0.02 | 0.28 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 10.5 | 10.5 | < 0.005 | < 0.005 | < 0.005 | 11.2 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.03 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 10.6 | 10.6 | < 0.005 | < 0.005 | < 0.005 | 11.1 |
| Hauling | 0.02 | 0.01 | 0.38 | 0.25 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 73.8 | 73.8 | 0.01 | 0.01 | < 0.005 | 77.3 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.54 | 0.54 | < 0.005 | < 0.005 | < 0.005 | 0.58 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.54 | 0.54 | < 0.005 | < 0.005 | < 0.005 | 0.56 |
| Hauling | < 0.005 | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 3.73 | 3.73 | < 0.005 | < 0.005 | < 0.005 | 3.91 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.09 | 0.09 | < 0.005 | < 0.005 | < 0.005 | 0.10 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.09 | 0.09 | < 0.005 | < 0.005 | < 0.005 | 0.10 |

AGENDA ITEM NO. 17.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.62 | 0.62 | < 0.005 | < 0.005 | < 0.005 | 0.65 |

## 3.9. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.15 | 0.96 | 8.84 | 11.7 | 0.02 | 0.37 | — | 0.37 | 0.34 | — | 0.34 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.37 | 0.37 | < 0.005 | 0.04 | 0.04 | — | 7.08 | 7.08 | < 0.005 | < 0.005 | < 0.005 | 7.42 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.20 | 0.17 | 1.54 | 2.03 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 342 | 342 | 0.01 | < 0.005 | — | 343 |
| Onsite truck | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.01 | 0.01 | — | 1.22 | 1.22 | < 0.005 | < 0.005 | < 0.005 | 1.28 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.28 | 0.37 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 56.6 | 56.6 | < 0.005 | < 0.005 | — | 56.8 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.20 | 0.20 | < 0.005 | < 0.005 | < 0.005 | 0.21 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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AGENDA ITEM NO. 17.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.21 | 0.20 | 0.06 | 0.81 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | — | 30.5 | 30.5 | 0.01 | 0.01 | < 0.005 | 32.6 |
| Vendor | 0.01 | 0.01 | 0.22 | 0.14 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 45.9 | 45.9 | < 0.005 | 0.01 | < 0.005 | 48.0 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.01 | 0.12 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 5.40 | 5.40 | < 0.005 | < 0.005 | 0.01 | 5.76 |
| Vendor | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 7.94 | 7.94 | < 0.005 | < 0.005 | 0.01 | 8.32 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.89 | 0.89 | < 0.005 | < 0.005 | < 0.005 | 0.95 |
| Vendor | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.32 | 1.32 | < 0.005 | < 0.005 | < 0.005 | 1.38 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.11. Building Construction (2026) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.09 | 0.91 | 8.35 | 11.6 | 0.02 | 0.32 | — | 0.32 | 0.29 | — | 0.29 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.37 | 0.37 | < 0.005 | 0.04 | 0.04 | — | 6.85 | 6.85 | < 0.005 | < 0.005 | 0.01 | 7.20 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

2880

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 1.09 | 0.91 | 8.35 | 11.6 | 0.02 | 0.32 | — | 0.32 | 0.29 | — | 0.29 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.37 | 0.37 | < 0.005 | 0.04 | 0.04 | — | 6.94 | 6.94 | < 0.005 | < 0.005 | < 0.005 | 7.28 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.78 | 0.65 | 5.96 | 8.30 | 0.01 | 0.23 | — | 0.23 | 0.21 | — | 0.21 | — | 1,403 | 1,403 | 0.06 | 0.01 | — | 1,408 |
| Onsite truck | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.25 | 0.25 | < 0.005 | 0.02 | 0.03 | — | 4.92 | 4.92 | < 0.005 | < 0.005 | < 0.005 | 5.16 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 0.12 | 1.09 | 1.51 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 232 | 232 | 0.01 | < 0.005 | — | 233 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.05 | 0.05 | < 0.005 | < 0.005 | < 0.005 | — | 0.81 | 0.81 | < 0.005 | < 0.005 | < 0.005 | 0.86 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.22 | 0.21 | 0.05 | 0.56 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | — | 32.0 | 32.0 | 0.01 | 0.01 | 0.08 | 34.0 |
| Vendor | 0.01 | 0.01 | 0.20 | 0.13 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 44.6 | 44.6 | < 0.005 | 0.01 | 0.07 | 46.8 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.19 | 0.19 | 0.06 | 0.75 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | — | 29.8 | 29.8 | 0.01 | 0.01 | < 0.005 | 31.9 |
| Vendor | 0.01 | 0.01 | 0.21 | 0.14 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 45.0 | 45.0 | < 0.005 | 0.01 | < 0.005 | 47.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.14 | 0.14 | 0.04 | 0.45 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 21.7 | 21.7 | 0.01 | < 0.005 | 0.02 | 23.1 |
| Vendor | 0.01 | 0.01 | 0.15 | 0.09 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 32.0 | 32.0 | < 0.005 | < 0.005 | 0.02 | 2881 |

AGENDA ITEM NO. 17.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.02 | 0.01 | 0.08 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.59 | 3.59 | < 0.005 | < 0.005 | < 0.005 | 3.83 |
| Vendor | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 5.29 | 5.29 | < 0.005 | < 0.005 | < 0.005 | 5.55 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.13. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.04 | 0.87 | 7.96 | 11.6 | 0.02 | 0.28 | — | 0.28 | 0.26 | — | 0.26 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.37 | 0.37 | < 0.005 | 0.04 | 0.04 | — | 6.70 | 6.70 | < 0.005 | < 0.005 | 0.01 | 7.03 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.04 | 0.87 | 7.96 | 11.6 | 0.02 | 0.28 | — | 0.28 | 0.26 | — | 0.26 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.37 | 0.37 | < 0.005 | 0.04 | 0.04 | — | 6.79 | 6.79 | < 0.005 | < 0.005 | < 0.005 | 7.12 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.74 | 0.62 | 5.68 | 8.29 | 0.01 | 0.20 | — | 0.20 | 0.18 | — | 0.18 | — | 1,403 | 1,403 | 0.06 | 0.01 | — | 1,408 |
| Onsite truck | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.25 | 0.25 | < 0.005 | 0.02 | 0.03 | — | 4.81 | 4.81 | < 0.005 | < 0.005 | < 0.005 | 5.05 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |

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AGENDA ITEM NO. 17.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.14 | 0.11 | 1.04 | 1.51 | < 0.005 | 0.04 | — | 0.04 | 0.03 | — | 0.03 | — | 232 | 232 | 0.01 | < 0.005 | — | 233 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.05 | 0.05 | < 0.005 | < 0.005 | < 0.005 | — | 0.80 | 0.80 | < 0.005 | < 0.005 | < 0.005 | 0.84 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.21 | 0.20 | 0.04 | 0.52 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | — | 31.3 | 31.3 | 0.01 | < 0.005 | 0.07 | 32.9 |
| Vendor | 0.01 | 0.01 | 0.20 | 0.13 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 43.7 | 43.7 | < 0.005 | 0.01 | 0.06 | 45.8 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.18 | 0.18 | 0.05 | 0.69 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | — | 29.2 | 29.2 | 0.01 | 0.01 | < 0.005 | 31.2 |
| Vendor | 0.01 | 0.01 | 0.21 | 0.13 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 44.1 | 44.1 | < 0.005 | 0.01 | < 0.005 | 46.2 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.13 | 0.13 | 0.03 | 0.42 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 21.2 | 21.2 | 0.01 | < 0.005 | 0.02 | 22.6 |
| Vendor | 0.01 | 0.01 | 0.15 | 0.09 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 31.3 | 31.3 | < 0.005 | < 0.005 | 0.02 | 32.8 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.01 | 0.08 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.51 | 3.51 | < 0.005 | < 0.005 | < 0.005 | 3.75 |
| Vendor | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 5.19 | 5.19 | < 0.005 | < 0.005 | < 0.005 | 5.44 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.15. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.00 | 0.84 | 7.61 | 11.6 | 0.02 | 0.25 | — | 0.25 | 0.23 | — | 0.23 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.37 | 0.37 | < 0.005 | 0.04 | 0.04 | — | 6.64 | 6.64 | < 0.005 | < 0.005 | < 0.005 | 6.98 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.31 | 0.48 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 80.7 | 80.7 | < 0.005 | < 0.005 | — | 81.0 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.27 | 0.27 | < 0.005 | < 0.005 | < 0.005 | 0.28 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.06 | 0.09 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 13.4 | 13.4 | < 0.005 | < 0.005 | — | 13.4 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.04 | 0.04 | < 0.005 | < 0.005 | < 0.005 | 0.05 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.17 | 0.17 | 0.05 | 0.65 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | — | 28.6 | 28.6 | 0.01 | 0.01 | < 0.005 | 30.6 |
| Vendor | 0.01 | 0.01 | 0.21 | 0.13 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 43.2 | 43.2 | < 0.005 | 0.01 | < 0.005 | 45.3 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.20 | 1.20 | < 0.005 | < 0.005 | < 0.005 | 1.26 |
| Vendor | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.76 | 1.76 | < 0.005 | < 0.005 | < 0.005 | 1.85 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.20 | 0.20 | < 0.005 | < 0.005 | < 0.005 | 0.21 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.29 | 0.29 | < 0.005 | < 0.005 | < 0.005 | 0.31 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.17. Paving (2025) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.95 | 0.80 | 7.45 | 9.98 | 0.01 | 0.35 | — | 0.35 | 0.32 | — | 0.32 | — | 1,511 | 1,511 | 0.06 | 0.01 | — | 1,517 |
| Paving | — | 0.66 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.37 | 0.37 | < 0.005 | 0.04 | 0.04 | — | 7.08 | 7.08 | < 0.005 | < 0.005 | < 0.005 | 7.42 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 0.04 | 0.41 | 0.55 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 82.8 | 82.8 | < 0.005 | < 0.005 | — | 83.1 |
| Paving | — | 0.04 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

AGENDA ITEM NO. 17.

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| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 0.39 | 0.39 | < 0.005 | < 0.005 | < 0.005 | 0.40 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.07 | 0.10 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 13.7 | 13.7 | < 0.005 | < 0.005 | — | 13.8 |
| Paving | — | 0.01 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.06 | 0.06 | < 0.005 | < 0.005 | < 0.005 | 0.07 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.05 | 0.05 | 0.02 | 0.21 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 7.85 | 7.85 | < 0.005 | < 0.005 | < 0.005 | 8.39 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.03 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 10.6 | 10.6 | < 0.005 | < 0.005 | < 0.005 | 11.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.44 | 0.44 | < 0.005 | < 0.005 | < 0.005 | 0.47 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.58 | 0.58 | < 0.005 | < 0.005 | < 0.005 | 0.60 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.07 | 0.07 | < 0.005 | < 0.005 | < 0.005 | 0.08 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.10 | 0.10 | < 0.005 | < 0.005 | < 0.005 | 0.10 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.19. Architectural Coating (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

2886

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.13 | 0.11 | 0.81 | 1.12 | < 0.005 | 0.02 | — | 0.02 | 0.01 | — | 0.01 | — | 134 | 134 | 0.01 | < 0.005 | — | 134 |
| Architectural Coatings | — | 102 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.05 | 0.04 | < 0.005 | < 0.005 | 0.56 | 0.56 | < 0.005 | 0.06 | 0.06 | — | 9.96 | 9.96 | < 0.005 | < 0.005 | < 0.005 | 10.5 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.04 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 7.32 | 7.32 | < 0.005 | < 0.005 | — | 7.34 |
| Architectural Coatings | — | 5.61 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | — | 0.54 | 0.54 | < 0.005 | < 0.005 | < 0.005 | 0.57 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.21 | 1.21 | < 0.005 | < 0.005 | — | 1.22 |
| Architectural Coatings | — | 1.02 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.09 | 0.09 | < 0.005 | < 0.005 | < 0.005 | 0.09 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

AGENDA ITEM NO. 17.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.01 | 0.13 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 5.72 | 5.72 | < 0.005 | < 0.005 | < 0.005 | 6.12 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.03 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 9.98 | 9.98 | < 0.005 | < 0.005 | < 0.005 | 10.5 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.32 | 0.32 | < 0.005 | < 0.005 | < 0.005 | 0.34 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.54 | 0.54 | < 0.005 | < 0.005 | < 0.005 | 0.57 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.05 | 0.05 | < 0.005 | < 0.005 | < 0.005 | 0.06 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.09 | 0.09 | < 0.005 | < 0.005 | < 0.005 | 0.09 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.21. Utilities (2025) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.63 | 1.37 | 12.6 | 12.8 | 0.02 | 0.54 | — | 0.54 | 0.50 | — | 0.50 | — | 2,166 | 2,166 | 0.09 | 0.02 | — | 2,174 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.37 | 0.37 | < 0.005 | 0.04 | 0.04 | — | 6.99 | 6.99 | < 0.005 | < 0.005 | 0.01 | 7.34 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.63 | 1.37 | 12.6 | 12.8 | 0.02 | 0.54 | — | 0.54 | 0.50 | — | 0.50 | — | 2,166 | 2,166 | 0.09 | 0.02 | — | 2,174 |
| Onsite truck | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.37 | 0.37 | < 0.005 | 0.04 | 0.04 | — | 7.08 | 7.08 | < 0.005 | < 0.005 | < 0.005 | 7.42 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.71 | 0.60 | 5.51 | 5.60 | 0.01 | 0.24 | — | 0.24 | 0.22 | — | 0.22 | — | 950 | 950 | 0.04 | 0.01 | — | 953 |
| Onsite truck | < 0.005 | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.15 | 0.15 | < 0.005 | 0.02 | 0.02 | — | 3.08 | 3.08 | < 0.005 | < 0.005 | < 0.005 | 3.23 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.13 | 0.11 | 1.01 | 1.02 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 157 | 157 | 0.01 | < 0.005 | — | 158 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | — | 0.51 | 0.51 | < 0.005 | < 0.005 | < 0.005 | 0.54 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.01 | 0.10 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 5.60 | 5.60 | < 0.005 | < 0.005 | 0.01 | 5.96 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.03 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 10.5 | 10.5 | < 0.005 | < 0.005 | 0.02 | 11.0 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.03 | 0.01 | 0.14 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 5.23 | 5.23 | < 0.005 | < 0.005 | < 0.005 | 5.59 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.03 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 10.6 | 10.6 | < 0.005 | < 0.005 | < 0.005 | 11.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | 0.02 | 0.02 | < 0.005 | 0.05 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.33 | 2.33 | < 0.005 | < 0.005 | < 0.005 | 2.49 |
| Vendor | < 0.005 | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 4.62 | 4.62 | < 0.005 | < 0.005 | < 0.005 | 4.84 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.39 | 0.39 | < 0.005 | < 0.005 | < 0.005 | 0.41 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.76 | 0.76 | < 0.005 | < 0.005 | < 0.005 | 0.80 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

# 4. Operations Emissions Details

## 4.1. Mobile Emissions by Land Use

### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 5.12 | 5.00 | 1.70 | 12.8 | 0.01 | 0.01 | 0.54 | 0.55 | 0.01 | 0.14 | 0.15 | — | 935 | 935 | 0.24 | 0.14 | 2.30 | 985 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 5.12 | 5.00 | 1.70 | 12.8 | 0.01 | 0.01 | 0.54 | 0.55 | 0.01 | 0.14 | 0.15 | — | 935 | 935 | 0.24 | 0.14 | 2.30 | 985 |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 4.43 | 4.26 | 1.94 | 16.8 | 0.01 | 0.01 | 0.54 | 0.55 | 0.01 | 0.14 | 0.15 | — | 883 | 883 | 0.32 | 0.15 | 0.06 | 937 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 4.43 | 4.26 | 1.94 | 16.8 | 0.01 | 0.01 | 0.54 | 0.55 | 0.01 | 0.14 | 0.15 | — | 883 | 883 | 0.32 | 0.15 | 0.06 | 937 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 0.81 | 0.78 | 0.32 | 2.55 | < 0.005 | < 0.005 | 0.09 | 0.10 | < 0.005 | 0.02 | 0.03 | — | 145 | 145 | 0.05 | 0.02 | 0.16 | 154 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.81 | 0.78 | 0.32 | 2.55 | < 0.005 | < 0.005 | 0.09 | 0.10 | < 0.005 | 0.02 | 0.03 | — | 145 | 145 | 0.05 | 0.02 | 0.16 | 154 |

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | 846 | 846 | 0.14 | 0.02 | — | 855 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 846 | 846 | 0.14 | 0.02 | — | 855 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | 846 | 846 | 0.14 | 0.02 | — | 855 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 846 | 846 | 0.14 | 0.02 | — | 855 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | 140 | 140 | 0.02 | < 0.005 | — | 141 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 140 | 140 | 0.02 | < 0.005 | — | 141 |

### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 0.19 | 0.09 | 1.59 | 0.68 | 0.01 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 2,020 | 2,020 | 0.18 | < 0.005 | — | 2,026 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 0.19 | 0.09 | 1.59 | 0.68 | 0.01 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 2,020 | 2,020 | 0.18 | < 0.005 | — | 2,026 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 0.19 | 0.09 | 1.59 | 0.68 | 0.01 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 2,020 | 2,020 | 0.18 | < 0.005 | — | 2,026 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | |

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AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 0.19 | 0.09 | 1.59 | 0.68 | 0.01 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 2,020 | 2,020 | 0.18 | < 0.005 | — | 2,026 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | 0.03 | 0.02 | 0.29 | 0.12 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 334 | 334 | 0.03 | < 0.005 | — | 335 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 0.03 | 0.02 | 0.29 | 0.12 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 334 | 334 | 0.03 | < 0.005 | — | 335 |

## 4.3. Area Emissions by Source

### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Source | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.16 | 0.08 | 1.34 | 0.57 | 0.01 | 0.11 | — | 0.11 | 0.11 | — | 0.11 | 0.00 | 1,706 | 1,706 | 0.03 | < 0.005 | — | 1,707 |
| Consumer Products | — | 6.79 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

2894

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Architectural | — | 0.56 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.87 | 0.83 | 0.09 | 9.17 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 24.6 | 24.6 | < 0.005 | < 0.005 | — | 24.7 |
| Total | 1.03 | 8.26 | 1.43 | 9.74 | 0.01 | 0.11 | — | 0.11 | 0.11 | — | 0.11 | 0.00 | 1,730 | 1,730 | 0.03 | < 0.005 | — | 1,732 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.16 | 0.08 | 1.34 | 0.57 | 0.01 | 0.11 | — | 0.11 | 0.11 | — | 0.11 | 0.00 | 1,706 | 1,706 | 0.03 | < 0.005 | — | 1,707 |
| Consumer Products | — | 6.79 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.56 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 0.16 | 7.43 | 1.34 | 0.57 | 0.01 | 0.11 | — | 0.11 | 0.11 | — | 0.11 | 0.00 | 1,706 | 1,706 | 0.03 | < 0.005 | — | 1,707 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.01 | < 0.005 | 0.06 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.00 | 63.4 | 63.4 | < 0.005 | < 0.005 | — | 63.5 |
| Consumer Products | — | 1.24 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.10 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.08 | 0.07 | 0.01 | 0.83 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.01 | 2.01 | < 0.005 | < 0.005 | — | 2.01 |
| Total | 0.08 | 1.42 | 0.06 | 0.85 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.00 | 65.4 | 65.4 | < 0.005 | < 0.005 | — | 65.5 |

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 12.5 | 57.4 | 69.9 | 1.29 | 0.03 | — | 112 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.91 | 0.91 | < 0.005 | < 0.005 | — | 0.92 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.41 | 0.41 | < 0.005 | < 0.005 | — | 0.41 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.06 | 0.06 | < 0.005 | < 0.005 | — | 0.06 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 12.5 | 58.8 | 71.3 | 1.29 | 0.03 | — | 113 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 12.5 | 57.4 | 69.9 | 1.29 | 0.03 | — | 112 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.91 | 0.91 | < 0.005 | < 0.005 | — | 0.92 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.41 | 0.41 | < 0.005 | < 0.005 | — | 0.41 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.06 | 0.06 | < 0.005 | < 0.005 | — | 0.06 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 12.5 | 58.8 | 71.3 | 1.29 | 0.03 | — | 113 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 2.07 | 9.51 | 11.6 | 0.21 | 0.01 | — | 18.5 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.15 | 0.15 | < 0.005 | < 0.005 | — | 0.15 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.07 | 0.07 | < 0.005 | < 0.005 | — | 0.07 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | 0.01 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 2.07 | 9.73 | 11.8 | 0.21 | 0.01 | — | 18.7 |

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 77.5 | 0.00 | 77.5 | 7.75 | 0.00 | — | 271 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.02 | 0.00 | 0.02 | < 0.005 | 0.00 | — | 0.08 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 77.5 | 0.00 | 77.5 | 7.75 | 0.00 | — | 271 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 77.5 | 0.00 | 77.5 | 7.75 | 0.00 | — | 271 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.02 | 0.00 | 0.02 | < 0.005 | 0.00 | — | 0.08 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 77.5 | 0.00 | 77.5 | 7.75 | 0.00 | — | 271 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 12.8 | 0.00 | 12.8 | 1.28 | 0.00 | — | 44.9 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | — | 0.01 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Non-Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 12.8 | 0.00 | 12.8 | 1.28 | 0.00 | — | 44.9 |

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.26 | 2.26 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.26 | 2.26 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.26 | 2.26 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.26 | 2.26 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.37 | 0.37 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.37 | 0.37 |

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

2899

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.8. Stationary Emissions By Equipment Type

### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

2900

| Equipment Type | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.10. Soil Carbon Accumulation By Vegetation Type

### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

2901

AGENDA ITEM NO. 17.

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

2902

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

# 5. Activity Data

## 5.1. Construction Schedule

| Phase Name | Phase Type | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|---|---|---|---|---|---|---|
| Demolition | Demolition | 11/1/2024 | 11/29/2024 | 5.00 | 20.0 | — |
| Site Preparation | Site Preparation | 11/30/2024 | 12/14/2024 | 5.00 | 10.0 | — |

2903

AGENDA ITEM NO. 17.

| | | | | | | |
|---|---|---|---|---|---|---|
| Grading | Grading | 12/15/2024 | 1/26/2025 | 5.00 | 30.0 | — |
| Building Construction | Building Construction | 10/04/2025 | 1/21/2028 | 5.00 | 600 | — |
| Paving | Paving | 1/27/2025 | 2/21/2025 | 5.00 | 20.0 | — |
| Architectural Coating | Architectural Coating | 1/22/2028 | 2/18/2028 | 5.00 | 20.0 | — |
| Utilities | Trenching | 2/22/2025 | 10/03/2025 | 5.00 | 160 | — |

## 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|---|
| Demolition | Rubber Tired Dozers | Diesel | Average | 2.00 | 8.00 | 367 | 0.40 |
| Demolition | Excavators | Diesel | Average | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Concrete/Industrial Saws | Diesel | Average | 1.00 | 8.00 | 33.0 | 0.73 |
| Site Preparation | Rubber Tired Dozers | Diesel | Average | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Average | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Excavators | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Grading | Scrapers | Diesel | Average | 2.00 | 8.00 | 423 | 0.48 |
| Grading | Rubber Tired Dozers | Diesel | Average | 1.00 | 8.00 | 367 | 0.40 |
| Building Construction | Forklifts | Diesel | Average | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Cranes | Diesel | Average | 1.00 | 3.50 | 367 | 0.29 |
| Building Construction | Welders | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Average | 3.00 | 7.00 | 84.0 | 0.37 |

2904

AGENDA ITEM NO. 17.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Paving | Pavers | Diesel | Average | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Average | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |
| Utilities | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Utilities | Trenchers | Diesel | Average | 1.00 | 8.00 | 40.0 | 0.50 |
| Utilities | Rubber Tired Dozers | Diesel | Average | 1.00 | 8.00 | 367 | 0.40 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|---|---|---|---|---|
| Demolition | — | — | — | — |
| Demolition | Worker | 15.0 | 0.50 | LDA,LDT1,LDT2 |
| Demolition | Vendor | 4.00 | 0.50 | HHDT,MHDT |
| Demolition | Hauling | 0.95 | 0.50 | HHDT |
| Demolition | Onsite truck | 2.00 | 0.50 | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 17.5 | 0.50 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | 4.00 | 0.50 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 0.50 | HHDT |
| Site Preparation | Onsite truck | 2.00 | 0.50 | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 20.0 | 0.50 | LDA,LDT1,LDT2 |
| Grading | Vendor | 4.00 | 0.50 | HHDT,MHDT |
| Grading | Hauling | 20.8 | 0.50 | HHDT |
| Grading | Onsite truck | 2.00 | 0.50 | HHDT |

2905

AGENDA ITEM NO. 17.

| | | | | |
|---|---|---|---|---|
| Building Construction | — | — | — | — |
| Building Construction | Worker | 58.3 | 0.50 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 17.3 | 0.50 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 0.50 | HHDT |
| Building Construction | Onsite truck | 2.00 | 0.50 | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 15.0 | 0.50 | LDA,LDT1,LDT2 |
| Paving | Vendor | 4.00 | 0.50 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 0.50 | HHDT |
| Paving | Onsite truck | 2.00 | 0.50 | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 11.7 | 0.50 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | 4.00 | 0.50 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 0.50 | HHDT |
| Architectural Coating | Onsite truck | 3.00 | 0.50 | HHDT |
| Utilities | — | — | — | — |
| Utilities | Worker | 10.0 | 0.50 | LDA,LDT1,LDT2 |
| Utilities | Vendor | 4.00 | 0.50 | HHDT,MHDT |
| Utilities | Hauling | 0.00 | 0.50 | HHDT |
| Utilities | Onsite truck | 2.00 | 0.50 | HHDT |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

| Control Strategies Applied | PM10 Reduction | PM2.5 Reduction |
|---|---|---|
| Water unpaved roads twice daily | 55% | 55% |
| Limit vehicle speeds on unpaved roads to 25 mph | 44% | 44% |

2906

AGENDA ITEM NO. 17.

## 5.5. Architectural Coatings

| Phase Name | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|---|---|---|---|---|---|
| Architectural Coating | 639,698 | 213,233 | 0.00 | 0.00 | 15,146 |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (Building Square Footage) | Acres Paved (acres) |
|---|---|---|---|---|---|
| Demolition | 0.00 | 0.00 | 0.00 | 1,650 | — |
| Site Preparation | — | — | 15.0 | 0.00 | — |
| Grading | 2,500 | 2,500 | 90.0 | 0.00 | — |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 7.58 |

### 5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|---|---|---|---|
| Water Exposed Area | 2 | 61% | 61% |
| Water Demolished Area | 2 | 36% | 36% |

## 5.7. Construction Paving

| Land Use | Area Paved (acres) | % Asphalt |
|---|---|---|
| Single Family Housing | 1.79 | 0% |
| City Park | 0.00 | 0% |
| Other Asphalt Surfaces | 5.07 | 100% |
| Other Non-Asphalt Surfaces | 0.73 | 0% |

2907

AGENDA ITEM NO. 17.

## 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4 | N2O |
|---|---|---|---|---|
| 2024 | 0.00 | 204 | 0.03 | < 0.005 |
| 2025 | 0.00 | 204 | 0.03 | < 0.005 |
| 2026 | 0.00 | 204 | 0.03 | < 0.005 |
| 2027 | 0.00 | 204 | 0.03 | < 0.005 |
| 2028 | 0.00 | 204 | 0.03 | < 0.005 |

## 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

| Land Use Type | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year |
|---|---|---|---|---|---|---|---|---|
| Single Family Housing | 1,528 | 1,536 | 1,374 | 549,993 | 764 | 768 | 687 | 274,997 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

| Hearth Type | Unmitigated (number) |
|---|---|
| Single Family Housing | — |

2908

AGENDA ITEM NO. 17.

| | |
|---|---|
| Wood Fireplaces | 0 |
| Gas Fireplaces | 81 |
| Propane Fireplaces | 0 |
| Electric Fireplaces | 0 |
| No Fireplaces | 81 |
| Conventional Wood Stoves | 0 |
| Catalytic Wood Stoves | 8 |
| Non-Catalytic Wood Stoves | 8 |
| Pellet Wood Stoves | 0 |

### 5.10.2. Architectural Coatings

| Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|---|---|---|---|---|
| 639697.5 | 213,233 | 0.00 | 0.00 | 15,146 |

### 5.10.3. Landscape Equipment

| Season | Unit | Value |
|---|---|---|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 180 |

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

| Land Use | Electricity (kWh/yr) | CO2 | CH4 | N2O | Natural Gas (kBTU/yr) |
|---|---|---|---|---|---|
| Single Family Housing | 1,514,146 | 204 | 0.0330 | 0.0040 | 6,303,796 |
| City Park | 0.00 | 204 | 0.0330 | 0.0040 | 0.00 |

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| | | | | | |
|---|---|---|---|---|---|
| Other Asphalt Surfaces | 0.00 | 204 | 0.0330 | 0.0040 | 0.00 |
| Other Non-Asphalt Surfaces | 0.00 | 204 | 0.0330 | 0.0040 | 0.00 |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|---|---|---|
| Single Family Housing | 6,527,952 | 31,835,405 |
| City Park | 0.00 | 671,017 |
| Other Asphalt Surfaces | 0.00 | 302,866 |
| Other Non-Asphalt Surfaces | 0.00 | 43,651 |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|---|---|---|
| Single Family Housing | 144 | — |
| City Park | 0.04 | — |
| Other Asphalt Surfaces | 0.00 | — |
| Other Non-Asphalt Surfaces | 0.00 | — |

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

| Land Use Type | Equipment Type | Refrigerant | GWP | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|---|---|---|---|---|---|---|---|
| Single Family Housing | Average room A/C & Other residential A/C and heat pumps | R-410A | 2,088 | < 0.005 | 2.50 | 2.50 | 10.0 |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Single Family Housing | Household refrigerators and/or freezers | R-134a | 1,430 | 0.12 | 0.60 | 0.00 | 1.00 |
| City Park | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| City Park | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

| Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

| Equipment Type | Fuel Type | Number per Day | Hours per Day | Hours per Year | Horsepower | Load Factor |
|---|---|---|---|---|---|---|

### 5.16.2. Process Boilers

| Equipment Type | Fuel Type | Number | Boiler Rating (MMBtu/hr) | Daily Heat Input (MMBtu/day) | Annual Heat Input (MMBtu/yr) |
|---|---|---|---|---|---|

## 5.17. User Defined

| Equipment Type | Fuel Type |
|---|---|

## 5.18. Vegetation

### 5.18.1. Land Use Change

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### 5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|---|---|---|---|

### 5.18.1. Biomass Cover Type

### 5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|---|---|---|

### 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|---|---|---|---|

## 8. User Changes to Default Data

| Screen | Justification |
|---|---|
| Land Use | Land uses based on the project site plan. 162 single-family residential homes and 2 parks on approximately 14.57 gross acres. Acreage for homes based on lot sizes. |
| Construction: Construction Phases | Lot development to occur prior to building construction.<br>Construction to start as early as November 2024 and last until 2028. Utilities phase added and building construction phase doubled to reflect applicant-provided construction schedule. |
| Operations: Vehicle Data | Trip lengths updated to 0.5 mile to account for on-site and localized emissions from mobile sources.<br>Trip rates for single-family housing from the ITE Trip Generation Rates, 11th Edition.<br>ITE Land Use Code 210 (Single-family detached housing)<br>The parks will serve as amenities for the subdivision. |
| Operations: Fleet Mix | SJVAPCD-approved residential fleet mix for the 2025 operational year applied to single-family homes. |
| Operations: Hearths | SJVAPCD Rule 4901 Woodburning<br>No woodburning fireplaces or wood stoves |
| Construction: Off-Road Equipment | Equipment added to the utilities phase. Crane usage adjusted to retain default HP hours, as the duration for the building construction phase was doubled. |

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| | |
|---|---|
| Construction: Trips and VMT | Trip lengths updated to 0.5 mile to account for on-site and localized emissions from construction vehicles. |

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# TM6467 - Mitigated Construction (Tier 4 Equipment) Custom Report

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8. User Changes to Default Data

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field | Value |
|---|---|
| Project Name | TM6467 - Mitigated Construction (Tier 4 Equipment) |
| Construction Start Date | 11/1/2024 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.70 |
| Precipitation (days) | 21.2 |
| Location | 36.872631, -119.708339 |
| County | Fresno |
| City | Unincorporated |
| Air District | San Joaquin Valley APCD |
| Air Basin | San Joaquin Valley |
| TAZ | 2569 |
| EDFZ | 5 |
| Electric Utility | Pacific Gas & Electric Company |
| Gas Utility | Pacific Gas & Electric |
| App Version | 2022.1.1.21 |

## 1.2. Land Use Types

| Land Use Subtype | Size | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|---|---|---|---|---|---|---|---|---|
| Single Family Housing | 162 | Dwelling Unit | 8.30 | 315,900 | 1,897,483 | — | 518 | 162 single residential |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| City Park | 0.50 | Acre | 0.50 | 0.00 | 21,997 | 21,997 | — | Two parks totaling 21,997 square feet |
| Other Asphalt Surfaces | 5.07 | Acre | 5.07 | 0.00 | 22,063 | — | — | — |
| Other Non-Asphalt Surfaces | 0.73 | Acre | 0.73 | 0.00 | 3,180 | — | — | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector | # | Measure Title |
|---|---|---|
| Construction | C-5 | Use Advanced Engine Tiers |

## 2. Emissions Summary

### 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 1.68 | 1.41 | 12.7 | 13.2 | 0.02 | 0.54 | 0.25 | 0.79 | 0.50 | 0.04 | 0.53 | — | 2,285 | 2,285 | 0.09 | 0.03 | 0.37 | 2,296 |
| 2026 | 1.35 | 1.15 | 8.85 | 13.8 | 0.02 | 0.32 | 0.56 | 0.88 | 0.29 | 0.11 | 0.40 | — | 2,539 | 2,539 | 0.10 | 0.07 | 1.73 | 2,563 |
| 2027 | 1.29 | 1.10 | 8.44 | 13.6 | 0.02 | 0.28 | 0.56 | 0.84 | 0.26 | 0.11 | 0.37 | — | 2,527 | 2,527 | 0.09 | 0.06 | 1.55 | 2,549 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 4.42 | 3.72 | 36.4 | 33.6 | 0.07 | 1.60 | 7.96 | 9.56 | 1.47 | 3.98 | 5.46 | — | 8,254 | 8,254 | 0.31 | 0.30 | 0.11 | 8,352 |
| 2025 | 3.95 | 3.30 | 31.7 | 29.4 | 0.07 | 1.26 | 4.29 | 5.55 | 1.16 | 1.58 | 2.74 | — | 8,222 | 8,222 | 0.31 | 0.29 | 0.11 | 8,318 |
| 2026 | 1.32 | 1.13 | 8.91 | 13.4 | 0.02 | 0.32 | 0.56 | 0.88 | 0.29 | 0.11 | 0.40 | — | 2,501 | 2,501 | 0.10 | 0.07 | 0.04 | 2,523 |
| 2027 | 1.26 | 1.07 | 8.49 | 13.3 | 0.02 | 0.28 | 0.56 | 0.84 | 0.26 | 0.11 | 0.37 | — | 2,489 | 2,489 | 0.10 | 0.06 | 0.04 | 2,511 |

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| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2028 | 1.21 | 103 | 8.12 | 13.2 | 0.02 | 0.25 | 0.56 | 0.81 | 0.23 | 0.11 | 0.34 | — | 2,478 | 2,478 | 0.10 | 0.06 | 0.04 | 2,500 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.44 | 0.37 | 3.58 | 3.19 | 0.01 | 0.15 | 0.38 | 0.53 | 0.14 | 0.16 | 0.30 | — | 623 | 623 | 0.02 | 0.01 | 0.08 | 628 |
| 2025 | 1.24 | 1.08 | 9.24 | 10.2 | 0.02 | 0.39 | 0.43 | 0.82 | 0.35 | 0.12 | 0.47 | — | 1,948 | 1,948 | 0.08 | 0.04 | 0.32 | 1,962 |
| 2026 | 0.95 | 0.81 | 6.34 | 9.61 | 0.01 | 0.23 | 0.39 | 0.62 | 0.21 | 0.08 | 0.29 | — | 1,794 | 1,794 | 0.07 | 0.05 | 0.53 | 1,810 |
| 2027 | 0.90 | 0.77 | 6.05 | 9.50 | 0.01 | 0.20 | 0.39 | 0.59 | 0.18 | 0.08 | 0.26 | — | 1,786 | 1,786 | 0.07 | 0.05 | 0.48 | 1,801 |
| 2028 | 0.06 | 5.66 | 0.39 | 0.62 | < 0.005 | 0.01 | 0.04 | 0.05 | 0.01 | 0.01 | 0.02 | — | 116 | 116 | < 0.005 | < 0.005 | 0.03 | 117 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.08 | 0.07 | 0.65 | 0.58 | < 0.005 | 0.03 | 0.07 | 0.10 | 0.03 | 0.03 | 0.06 | — | 103 | 103 | < 0.005 | < 0.005 | 0.01 | 104 |
| 2025 | 0.23 | 0.20 | 1.69 | 1.86 | < 0.005 | 0.07 | 0.08 | 0.15 | 0.06 | 0.02 | 0.09 | — | 322 | 322 | 0.01 | 0.01 | 0.05 | 325 |
| 2026 | 0.17 | 0.15 | 1.16 | 1.75 | < 0.005 | 0.04 | 0.07 | 0.11 | 0.04 | 0.01 | 0.05 | — | 297 | 297 | 0.01 | 0.01 | 0.09 | 300 |
| 2027 | 0.16 | 0.14 | 1.10 | 1.73 | < 0.005 | 0.04 | 0.07 | 0.11 | 0.03 | 0.01 | 0.05 | — | 296 | 296 | 0.01 | 0.01 | 0.08 | 298 |
| 2028 | 0.01 | 1.03 | 0.07 | 0.11 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 19.2 | 19.2 | < 0.005 | < 0.005 | 0.01 | 19.4 |

## 2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.52 | 0.48 | 7.12 | 12.7 | 0.02 | 0.09 | 0.25 | 0.35 | 0.09 | 0.04 | 0.13 | — | 2,285 | 2,285 | 0.09 | 0.03 | 0.37 | 2,296 |
| 2026 | 0.83 | 0.75 | 8.62 | 15.0 | 0.02 | 0.10 | 0.56 | 0.66 | 0.10 | 0.11 | 0.20 | — | 2,539 | 2,539 | 0.10 | 0.07 | 1.73 | 2,563 |
| 2027 | 0.79 | 0.72 | 8.55 | 14.8 | 0.02 | 0.09 | 0.56 | 0.66 | 0.09 | 0.11 | 0.20 | — | 2,527 | 2,527 | 0.09 | 0.06 | 1.55 | 2,549 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 1.16 | 1.08 | 21.0 | 36.6 | 0.07 | 0.20 | 7.96 | 8.06 | 0.20 | 3.98 | 4.08 | — | 8,254 | 8,254 | 0.31 | 0.30 | 0.11 | 8,352 |
| 2025 | 1.13 | 1.18 | 20.9 | 36.5 | 0.07 | 0.20 | 4.29 | 4.49 | 0.19 | 1.58 | 1.77 | — | 8,222 | 8,222 | 0.31 | 0.29 | 0.11 | 2920 |

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| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2026 | 0.79 | 0.72 | 8.67 | 14.6 | 0.02 | 0.10 | 0.56 | 0.66 | 0.10 | 0.11 | 0.20 | — | 2,501 | 2,501 | 0.10 | 0.07 | 0.04 | 2,523 |
| 2027 | 0.76 | 0.69 | 8.60 | 14.5 | 0.02 | 0.09 | 0.56 | 0.66 | 0.09 | 0.11 | 0.20 | — | 2,489 | 2,489 | 0.10 | 0.06 | 0.04 | 2,511 |
| 2028 | 0.74 | 103 | 8.54 | 14.4 | 0.02 | 0.09 | 0.56 | 0.65 | 0.08 | 0.11 | 0.19 | — | 2,478 | 2,478 | 0.10 | 0.06 | 0.04 | 2,500 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.11 | 0.10 | 1.71 | 3.05 | 0.01 | 0.02 | 0.38 | 0.40 | 0.02 | 0.16 | 0.18 | — | 623 | 623 | 0.02 | 0.01 | 0.08 | 628 |
| 2025 | 0.46 | 0.46 | 6.09 | 10.6 | 0.02 | 0.08 | 0.43 | 0.51 | 0.07 | 0.12 | 0.19 | — | 1,948 | 1,948 | 0.08 | 0.04 | 0.32 | 1,962 |
| 2026 | 0.57 | 0.52 | 6.18 | 10.5 | 0.01 | 0.07 | 0.39 | 0.46 | 0.07 | 0.08 | 0.14 | — | 1,794 | 1,794 | 0.07 | 0.05 | 0.53 | 1,810 |
| 2027 | 0.55 | 0.50 | 6.13 | 10.4 | 0.01 | 0.07 | 0.39 | 0.46 | 0.06 | 0.08 | 0.14 | — | 1,786 | 1,786 | 0.07 | 0.05 | 0.48 | 1,801 |
| 2028 | 0.04 | 5.65 | 0.40 | 0.67 | < 0.005 | < 0.005 | 0.04 | 0.05 | < 0.005 | 0.01 | 0.01 | — | 116 | 116 | < 0.005 | < 0.005 | 0.03 | 117 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.02 | 0.02 | 0.31 | 0.56 | < 0.005 | < 0.005 | 0.07 | 0.07 | < 0.005 | 0.03 | 0.03 | — | 103 | 103 | < 0.005 | < 0.005 | 0.01 | 104 |
| 2025 | 0.08 | 0.08 | 1.11 | 1.93 | < 0.005 | 0.01 | 0.08 | 0.09 | 0.01 | 0.02 | 0.03 | — | 322 | 322 | 0.01 | 0.01 | 0.05 | 325 |
| 2026 | 0.10 | 0.09 | 1.13 | 1.91 | < 0.005 | 0.01 | 0.07 | 0.08 | 0.01 | 0.01 | 0.03 | — | 297 | 297 | 0.01 | 0.01 | 0.09 | 300 |
| 2027 | 0.10 | 0.09 | 1.12 | 1.89 | < 0.005 | 0.01 | 0.07 | 0.08 | 0.01 | 0.01 | 0.03 | — | 296 | 296 | 0.01 | 0.01 | 0.08 | 298 |
| 2028 | 0.01 | 1.03 | 0.07 | 0.12 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 19.2 | 19.2 | < 0.005 | < 0.005 | 0.01 | 19.4 |

# 3. Construction Emissions Details

## 3.1. Demolition (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 3.12 | 2.62 | 24.9 | 21.7 | 0.03 | 1.06 | — | 1.06 | 0.98 | — | 0.98 | — | 3,425 | 3,425 | 0.14 | 0.03 | — | 3,437 |
| Demolition | — | — | — | — | — | — | 0.05 | 0.05 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.49 | 5.49 | < 0.005 | < 0.005 | < 0.005 | 5.77 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.17 | 0.14 | 1.36 | 1.19 | < 0.005 | 0.06 | — | 0.06 | 0.05 | — | 0.05 | — | 188 | 188 | 0.01 | < 0.005 | — | 188 |
| Demolition | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.30 | 0.30 | < 0.005 | < 0.005 | < 0.005 | 0.31 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.03 | 0.25 | 0.22 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 31.1 | 31.1 | < 0.005 | < 0.005 | — | 31.2 |
| Demolition | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.05 | 0.05 | < 0.005 | < 0.005 | < 0.005 | 0.05 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.06 | 0.05 | 0.49 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 82.4 | 82.4 | < 0.005 | < 0.005 | 0.01 | 83.7 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 53.7 | 53.7 | < 0.005 | 0.01 | < 0.005 | 56.0 |
| Hauling | < 0.005 | < 0.005 | 0.09 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01 | — | 67.8 | 67.8 | < 0.005 | 0.01 | < 0.005 | 71.0 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.68 | 4.68 | < 0.005 | < 0.005 | 0.01 | 4.76 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.94 | 2.94 | < 0.005 | < 0.005 | < 0.005 | 3.07 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 3.71 | 3.71 | < 0.005 | < 0.005 | < 0.005 | 3.89 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.77 | 0.77 | < 0.005 | < 0.005 | < 0.005 | 0.79 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.49 | 0.49 | < 0.005 | < 0.005 | < 0.005 | 0.51 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.61 | 0.61 | < 0.005 | < 0.005 | < 0.005 | 0.64 |

## 3.2. Demolition (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.91 | 0.81 | 10.8 | 18.4 | 0.03 | 0.19 | — | 0.19 | 0.18 | — | 0.18 | — | 3,425 | 3,425 | 0.14 | 0.03 | — | 3,437 |
| Demolition | — | — | — | — | — | — | 0.05 | 0.05 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.49 | 5.49 | < 0.005 | < 0.005 | < 0.005 | 5.77 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 0.04 | 0.59 | 1.01 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 188 | 188 | 0.01 | < 0.005 | — | 188 |
| Demolition | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.30 | 0.30 | < 0.005 | < 0.005 | < 0.005 | 0.31 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.11 | 0.18 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 31.1 | 31.1 | < 0.005 | < 0.005 | — | 31.2 |
| Demolition | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.05 | 0.05 | < 0.005 | < 0.005 | < 0.005 | 0.05 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.06 | 0.05 | 0.49 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 82.4 | 82.4 | < 0.005 | < 0.005 | 0.01 | 83.7 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 53.7 | 53.7 | < 0.005 | 0.01 | < 0.005 | 56.0 |
| Hauling | < 0.005 | < 0.005 | 0.09 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01 | — | 67.8 | 67.8 | < 0.005 | 0.01 | < 0.005 | 71.0 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.68 | 4.68 | < 0.005 | < 0.005 | 0.01 | 4.76 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.94 | 2.94 | < 0.005 | < 0.005 | < 0.005 | 3.07 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 3.71 | 3.71 | < 0.005 | < 0.005 | < 0.005 | 3.89 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.77 | 0.77 | < 0.005 | < 0.005 | < 0.005 | 0.79 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.49 | 0.49 | < 0.005 | < 0.005 | < 0.005 | 0.51 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.61 | 0.61 | < 0.005 | < 0.005 | < 0.005 | 0.64 |

## 3.3. Site Preparation (2024) - Unmitigated

AGENDA ITEM NO. 17.

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.34 | 3.65 | 36.0 | 32.9 | 0.05 | 1.60 | — | 1.60 | 1.47 | — | 1.47 | — | 5,296 | 5,296 | 0.21 | 0.04 | — | 5,314 |
| Dust From Material Movement | — | — | — | — | — | — | 7.67 | 7.67 | — | 3.94 | 3.94 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.49 | 5.49 | < 0.005 | < 0.005 | < 0.005 | 5.77 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.12 | 0.10 | 0.99 | 0.90 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 145 | 145 | 0.01 | < 0.005 | — | 146 |
| Dust From Material Movement | — | — | — | — | — | — | 0.21 | 0.21 | — | 0.11 | 0.11 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.15 | 0.15 | < 0.005 | < 0.005 | < 0.005 | 0.16 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.02 | 0.18 | 0.16 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 24.0 | 24.0 | < 0.005 | < 0.005 | — | 24.1 |
| Dust From Material Movement | — | — | — | — | — | — | 0.04 | 0.04 | — | 0.02 | 0.02 | — | — | — | — | — | — | — |

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AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | 0.03 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 96.2 | 96.2 | < 0.005 | < 0.005 | 0.01 | 97.6 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 53.7 | 53.7 | < 0.005 | 0.01 | < 0.005 | 56.0 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.73 | 2.73 | < 0.005 | < 0.005 | 0.01 | 2.78 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.47 | 1.47 | < 0.005 | < 0.005 | < 0.005 | 1.53 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.45 | 0.45 | < 0.005 | < 0.005 | < 0.005 | 0.46 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.24 | 0.24 | < 0.005 | < 0.005 | < 0.005 | 0.25 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.4. Site Preparation (2024) - Mitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.64 | 0.64 | 14.7 | 28.3 | 0.05 | 0.10 | — | 0.10 | 0.10 | — | 0.10 | — | 5,296 | 5,296 | 0.21 | 0.04 | — | 5,314 |
| Dust From Material Movement | — | — | — | — | — | — | 7.67 | 7.67 | — | 3.94 | 3.94 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.49 | 5.49 | < 0.005 | < 0.005 | < 0.005 | 5.77 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.02 | 0.40 | 0.78 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 145 | 145 | 0.01 | < 0.005 | — | 146 |
| Dust From Material Movement | — | — | — | — | — | — | 0.21 | 0.21 | — | 0.11 | 0.11 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.15 | 0.15 | < 0.005 | < 0.005 | < 0.005 | 0.16 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.07 | 0.14 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 24.0 | 24.0 | < 0.005 | < 0.005 | — | 24.1 |
| Dust From Material Movement | — | — | — | — | — | — | 0.04 | 0.04 | — | 0.02 | 0.02 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | 0.03 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 96.2 | 96.2 | < 0.005 | < 0.005 | 0.01 | 97.6 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 53.7 | 53.7 | < 0.005 | 0.01 | < 0.005 | 56.0 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.73 | 2.73 | < 0.005 | < 0.005 | 0.01 | 2.78 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.47 | 1.47 | < 0.005 | < 0.005 | < 0.005 | 1.53 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.45 | 0.45 | < 0.005 | < 0.005 | < 0.005 | 0.46 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.24 | 0.24 | < 0.005 | < 0.005 | < 0.005 | 0.25 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.5. Grading (2024) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.19 | 3.52 | 34.3 | 30.2 | 0.06 | 1.45 | — | 1.45 | 1.33 | — | 1.33 | — | 6,598 | 6,598 | 0.27 | 0.05 | — | 6,621 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dust From Material Movement | — | — | — | — | — | — | 3.59 | 3.59 | — | 1.43 | 1.43 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.49 | 5.49 | < 0.005 | < 0.005 | < 0.005 | 5.77 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 0.12 | 1.14 | 1.00 | < 0.005 | 0.05 | — | 0.05 | 0.04 | — | 0.04 | — | 220 | 220 | 0.01 | < 0.005 | — | 220 |
| Dust From Material Movement | — | — | — | — | — | — | 0.12 | 0.12 | — | 0.05 | 0.05 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.18 | 0.18 | < 0.005 | < 0.005 | < 0.005 | 0.19 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.02 | 0.21 | 0.18 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 36.3 | 36.3 | < 0.005 | < 0.005 | — | 36.5 |
| Dust From Material Movement | — | — | — | — | — | — | 0.02 | 0.02 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | 0.03 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.08 | 0.06 | 0.66 | 0.00 | 0.00 | 0.11 | 0.11 | 0.00 | 0.03 | 0.03 | — | 110 | 110 | 0.01 | 0.01 | 0.01 | 112 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 53.7 | 53.7 | < 0.005 | 0.01 | < 0.005 | |
| Hauling | 0.07 | 0.03 | 1.92 | 0.44 | 0.01 | 0.03 | 0.39 | 0.41 | 0.03 | 0.11 | 0.13 | — | 1,487 | 1,487 | 0.03 | 0.24 | 0.09 | |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.79 | 3.79 | < 0.005 | < 0.005 | 0.01 | 3.85 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.78 | 1.78 | < 0.005 | < 0.005 | < 0.005 | 1.86 |
| Hauling | < 0.005 | < 0.005 | 0.06 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 49.4 | 49.4 | < 0.005 | 0.01 | 0.05 | 51.9 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.63 | 0.63 | < 0.005 | < 0.005 | < 0.005 | 0.64 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.30 | 0.30 | < 0.005 | < 0.005 | < 0.005 | 0.31 |
| Hauling | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 8.19 | 8.19 | < 0.005 | < 0.005 | 0.01 | 8.58 |

## 3.6. Grading (2024) - Mitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.00 | 0.96 | 18.9 | 35.4 | 0.06 | 0.18 | — | 0.18 | 0.17 | — | 0.17 | — | 6,598 | 6,598 | 0.27 | 0.05 | — | 6,621 |
| Dust From Material Movement | — | — | — | — | — | — | 3.59 | 3.59 | — | 1.43 | 1.43 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.49 | 5.49 | < 0.005 | < 0.005 | < 0.005 | 5.77 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.03 | 0.63 | 1.18 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 220 | 220 | 0.01 | < 0.005 | — | 2930 |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dust From Material Movement | — | — | — | — | — | — | 0.12 | 0.12 | — | 0.05 | 0.05 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.18 | 0.18 | < 0.005 | < 0.005 | < 0.005 | 0.19 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.11 | 0.21 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 36.3 | 36.3 | < 0.005 | < 0.005 | — | 36.5 |
| Dust From Material Movement | — | — | — | — | — | — | 0.02 | 0.02 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | 0.03 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.08 | 0.06 | 0.66 | 0.00 | 0.00 | 0.11 | 0.11 | 0.00 | 0.03 | 0.03 | — | 110 | 110 | 0.01 | 0.01 | 0.01 | 112 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 53.7 | 53.7 | < 0.005 | 0.01 | < 0.005 | 56.0 |
| Hauling | 0.07 | 0.03 | 1.92 | 0.44 | 0.01 | 0.03 | 0.39 | 0.41 | 0.03 | 0.11 | 0.13 | — | 1,487 | 1,487 | 0.03 | 0.24 | 0.09 | 1,558 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.79 | 3.79 | < 0.005 | < 0.005 | 0.01 | 3.85 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.78 | 1.78 | < 0.005 | < 0.005 | < 0.005 | 1.86 |
| Hauling | < 0.005 | < 0.005 | 0.06 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 49.4 | 49.4 | < 0.005 | 0.01 | 0.05 | 51.9 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.63 | 0.63 | < 0.005 | < 0.005 | < 0.005 | 0.64 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.30 | 0.30 | < 0.005 | < 0.005 | < 0.005 | 0.31 |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 8.19 | 8.19 | < 0.005 | < 0.005 | 0.01 | 8.58 |

## 3.7. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 3.80 | 3.20 | 29.7 | 28.3 | 0.06 | 1.23 | — | 1.23 | 1.14 | — | 1.14 | — | 6,599 | 6,599 | 0.27 | 0.05 | — | 6,622 |
| Dust From Material Movement | — | — | — | — | — | — | 3.59 | 3.59 | — | 1.43 | 1.43 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.19 | 0.16 | 1.51 | 1.44 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 336 | 336 | 0.01 | < 0.005 | — | 337 |
| Dust From Material Movement | — | — | — | — | — | — | 0.18 | 0.18 | — | 0.07 | 0.07 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.27 | 0.27 | < 0.005 | < 0.005 | < 0.005 | 0.28 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.28 | 0.26 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 55.6 | 55.6 | < 0.005 | < 0.005 | — | 55.8 |

2932

AGENDA ITEM NO. 17.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dust From Material Movement | — | — | — | — | — | — | 0.03 | 0.03 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.04 | 0.04 | < 0.005 | < 0.005 | < 0.005 | 0.05 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.08 | 0.08 | 0.05 | 0.60 | 0.00 | 0.00 | 0.11 | 0.11 | 0.00 | 0.03 | 0.03 | — | 108 | 108 | < 0.005 | 0.01 | 0.01 | 109 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.7 | 52.7 | < 0.005 | 0.01 | < 0.005 | 55.1 |
| Hauling | 0.06 | 0.02 | 1.86 | 0.44 | 0.01 | 0.03 | 0.39 | 0.41 | 0.03 | 0.11 | 0.13 | — | 1,458 | 1,458 | 0.03 | 0.23 | 0.09 | 1,526 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 5.67 | 5.67 | < 0.005 | < 0.005 | 0.01 | 5.77 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.68 | 2.68 | < 0.005 | < 0.005 | < 0.005 | 2.80 |
| Hauling | < 0.005 | < 0.005 | 0.09 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.01 | 0.01 | — | 74.1 | 74.1 | < 0.005 | 0.01 | 0.08 | 77.7 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.94 | 0.94 | < 0.005 | < 0.005 | < 0.005 | 0.95 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.44 | 0.44 | < 0.005 | < 0.005 | < 0.005 | 0.46 |
| Hauling | < 0.005 | < 0.005 | 0.02 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 12.3 | 12.3 | < 0.005 | < 0.005 | 0.01 | 12.9 |

## 3.8. Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |

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| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.99 | 0.95 | 18.9 | 35.4 | 0.06 | 0.17 | — | 0.17 | 0.17 | — | 0.17 | — | 6,599 | 6,599 | 0.27 | 0.05 | — | 6,622 |
| Dust From Material Movement | — | — | — | — | — | — | 3.59 | 3.59 | — | 1.43 | 1.43 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 0.05 | 0.96 | 1.80 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 336 | 336 | 0.01 | < 0.005 | — | 337 |
| Dust From Material Movement | — | — | — | — | — | — | 0.18 | 0.18 | — | 0.07 | 0.07 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.27 | 0.27 | < 0.005 | < 0.005 | < 0.005 | 0.28 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.18 | 0.33 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 55.6 | 55.6 | < 0.005 | < 0.005 | — | 55.8 |
| Dust From Material Movement | — | — | — | — | — | — | 0.03 | 0.03 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.04 | 0.04 | < 0.005 | < 0.005 | < 0.005 | 0.05 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.08 | 0.08 | 0.05 | 0.60 | 0.00 | 0.00 | 0.11 | 0.11 | 0.00 | 0.03 | 0.03 | — | 108 | 108 | < 0.005 | 0.01 | 0.01 | 109 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.7 | 52.7 | < 0.005 | 0.01 | < 0.005 | 55.1 |
| Hauling | 0.06 | 0.02 | 1.86 | 0.44 | 0.01 | 0.03 | 0.39 | 0.41 | 0.03 | 0.11 | 0.13 | — | 1,458 | 1,458 | 0.03 | 0.23 | 0.09 | 1,526 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 5.67 | 5.67 | < 0.005 | < 0.005 | 0.01 | 5.77 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.68 | 2.68 | < 0.005 | < 0.005 | < 0.005 | 2.80 |
| Hauling | < 0.005 | < 0.005 | 0.09 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.01 | 0.01 | — | 74.1 | 74.1 | < 0.005 | 0.01 | 0.08 | 77.7 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.94 | 0.94 | < 0.005 | < 0.005 | < 0.005 | 0.95 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.44 | 0.44 | < 0.005 | < 0.005 | < 0.005 | 0.46 |
| Hauling | < 0.005 | < 0.005 | 0.02 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 12.3 | 12.3 | < 0.005 | < 0.005 | 0.01 | 12.9 |

## 3.9. Building Construction (2025) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.15 | 0.96 | 8.84 | 11.7 | 0.02 | 0.37 | — | 0.37 | 0.34 | — | 0.34 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 2935 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.20 | 0.17 | 1.54 | 2.03 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 342 | 342 | 0.01 | < 0.005 | — | 343 |
| Onsite truck | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | — | 0.93 | 0.93 | < 0.005 | < 0.005 | < 0.005 | 0.97 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.28 | 0.37 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 56.6 | 56.6 | < 0.005 | < 0.005 | — | 56.8 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.15 | 0.15 | < 0.005 | < 0.005 | < 0.005 | 0.16 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.24 | 0.22 | 0.16 | 1.76 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 314 | 314 | 0.01 | 0.02 | 0.03 | 319 |
| Vendor | 0.02 | 0.01 | 0.39 | 0.17 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 228 | 228 | 0.01 | 0.03 | 0.02 | 238 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.03 | 0.31 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 56.6 | 56.6 | < 0.005 | < 0.005 | 0.10 | 57.5 |
| Vendor | < 0.005 | < 0.005 | 0.07 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 39.7 | 39.7 | < 0.005 | 0.01 | 0.04 | 41.5 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | < 0.005 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 9.37 | 9.37 | < 0.005 | < 0.005 | 0.02 | 9.53 |
| Vendor | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 6.57 | 6.57 | < 0.005 | < 0.005 | 0.01 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

AGENDA ITEM NO. 17.

## 3.10. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.57 | 0.51 | 8.16 | 12.8 | 0.02 | 0.10 | — | 0.10 | 0.10 | — | 0.10 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.10 | 0.09 | 1.42 | 2.24 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 342 | 342 | 0.01 | < 0.005 | — | 343 |
| Onsite truck | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | — | 0.93 | 0.93 | < 0.005 | < 0.005 | < 0.005 | 0.97 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.02 | 0.26 | 0.41 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 56.6 | 56.6 | < 0.005 | < 0.005 | — | 56.8 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.15 | 0.15 | < 0.005 | < 0.005 | < 0.005 | 0.16 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | 0.24 | 0.22 | 0.16 | 1.76 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 314 | 314 | 0.01 | 0.02 | 0.03 | 319 |
| Vendor | 0.02 | 0.01 | 0.39 | 0.17 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 228 | 228 | 0.01 | 0.03 | 0.02 | 238 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.03 | 0.31 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 56.6 | 56.6 | < 0.005 | < 0.005 | 0.10 | 57.5 |
| Vendor | < 0.005 | < 0.005 | 0.07 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 39.7 | 39.7 | < 0.005 | 0.01 | 0.04 | 41.5 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | < 0.005 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 9.37 | 9.37 | < 0.005 | < 0.005 | 0.02 | 9.53 |
| Vendor | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 6.57 | 6.57 | < 0.005 | < 0.005 | 0.01 | 6.87 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.11. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.09 | 0.91 | 8.35 | 11.6 | 0.02 | 0.32 | — | 0.32 | 0.29 | — | 0.29 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.18 | 5.18 | < 0.005 | < 0.005 | < 0.005 | 5.45 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.09 | 0.91 | 8.35 | 11.6 | 0.02 | 0.32 | — | 0.32 | 0.29 | — | 0.29 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.27 | 5.27 | < 0.005 | < 0.005 | < 0.005 | 5.53 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.78 | 0.65 | 5.96 | 8.30 | 0.01 | 0.23 | — | 0.23 | 0.21 | — | 0.21 | — | 1,403 | 1,403 | 0.06 | 0.01 | — | 1,408 |
| Onsite truck | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.12 | 0.12 | < 0.005 | 0.01 | 0.01 | — | 3.73 | 3.73 | < 0.005 | < 0.005 | < 0.005 | 3.91 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 0.12 | 1.09 | 1.51 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 232 | 232 | 0.01 | < 0.005 | — | 233 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 0.62 | 0.62 | < 0.005 | < 0.005 | < 0.005 | 0.65 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.25 | 0.23 | 0.12 | 2.00 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 346 | 346 | 0.01 | 0.02 | 1.20 | 352 |
| Vendor | 0.02 | 0.01 | 0.35 | 0.16 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 224 | 224 | 0.01 | 0.03 | 0.52 | 234 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.21 | 0.21 | 0.15 | 1.62 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 307 | 307 | 0.01 | 0.02 | 0.03 | 312 |
| Vendor | 0.02 | 0.01 | 0.38 | 0.17 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 224 | 224 | 0.01 | 0.03 | 0.01 | 234 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.16 | 0.15 | 0.09 | 1.18 | 0.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.05 | 0.05 | — | 227 | 227 | 0.01 | 0.01 | 0.37 | 231 |
| Vendor | 0.01 | 0.01 | 0.26 | 0.12 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01 | 0.01 | — | 160 | 160 | < 0.005 | 0.02 | 0.16 | 167 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | 0.03 | 0.03 | 0.02 | 0.21 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.01 | 0.01 | — | 37.6 | 37.6 | < 0.005 | < 0.005 | 0.06 | 38.3 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 26.5 | 26.5 | < 0.005 | < 0.005 | 0.03 | 27.7 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.12. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.56 | 0.50 | 8.11 | 12.8 | 0.02 | 0.10 | — | 0.10 | 0.09 | — | 0.09 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.18 | 5.18 | < 0.005 | < 0.005 | < 0.005 | 5.45 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.56 | 0.50 | 8.11 | 12.8 | 0.02 | 0.10 | — | 0.10 | 0.09 | — | 0.09 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.27 | 5.27 | < 0.005 | < 0.005 | < 0.005 | 5.53 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.40 | 0.36 | 5.79 | 9.17 | 0.01 | 0.07 | — | 0.07 | 0.07 | — | 0.07 | — | 1,403 | 1,403 | 0.06 | 0.01 | — | 1,408 |
| Onsite truck | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.12 | 0.12 | < 0.005 | 0.01 | 0.01 | — | 3.73 | 3.73 | < 0.005 | < 0.005 | < 0.005 | 3.91 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 0.07 | 1.06 | 1.67 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 232 | 232 | 0.01 | < 0.005 | — | 233 |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 0.62 | 0.62 | < 0.005 | < 0.005 | < 0.005 | 0.65 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.25 | 0.23 | 0.12 | 2.00 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 346 | 346 | 0.01 | 0.02 | 1.20 | 352 |
| Vendor | 0.02 | 0.01 | 0.35 | 0.16 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 224 | 224 | 0.01 | 0.03 | 0.52 | 234 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.21 | 0.21 | 0.15 | 1.62 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 307 | 307 | 0.01 | 0.02 | 0.03 | 312 |
| Vendor | 0.02 | 0.01 | 0.38 | 0.17 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 224 | 224 | 0.01 | 0.03 | 0.01 | 234 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.16 | 0.15 | 0.09 | 1.18 | 0.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.05 | 0.05 | — | 227 | 227 | 0.01 | 0.01 | 0.37 | 231 |
| Vendor | 0.01 | 0.01 | 0.26 | 0.12 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01 | 0.01 | — | 160 | 160 | < 0.005 | 0.02 | 0.16 | 167 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.02 | 0.21 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.01 | 0.01 | — | 37.6 | 37.6 | < 0.005 | < 0.005 | 0.06 | 38.3 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 26.5 | 26.5 | < 0.005 | < 0.005 | 0.03 | 27.7 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.13. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.04 | 0.87 | 7.96 | 11.6 | 0.02 | 0.28 | — | 0.28 | 0.26 | — | 0.26 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.07 | 5.07 | < 0.005 | < 0.005 | < 0.005 | 5.32 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.04 | 0.87 | 7.96 | 11.6 | 0.02 | 0.28 | — | 0.28 | 0.26 | — | 0.26 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.16 | 5.16 | < 0.005 | < 0.005 | < 0.005 | 5.42 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.74 | 0.62 | 5.68 | 8.29 | 0.01 | 0.20 | — | 0.20 | 0.18 | — | 0.18 | — | 1,403 | 1,403 | 0.06 | 0.01 | — | 1,408 |
| Onsite truck | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.12 | 0.12 | < 0.005 | 0.01 | 0.01 | — | 3.65 | 3.65 | < 0.005 | < 0.005 | < 0.005 | 3.83 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 0.11 | 1.04 | 1.51 | < 0.005 | 0.04 | — | 0.04 | 0.03 | — | 0.03 | — | 232 | 232 | 0.01 | < 0.005 | — | 233 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 0.60 | 0.60 | < 0.005 | < 0.005 | < 0.005 | 0.63 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.22 | 0.22 | 0.11 | 1.85 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 339 | 339 | 0.01 | 0.01 | 1.09 | 344 |
| Vendor | 0.02 | 0.01 | 0.34 | 0.15 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 219 | 219 | 0.01 | 0.03 | 0.46 | 229 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

AGENDA ITEM NO. 17.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.20 | 0.18 | 0.13 | 1.50 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 301 | 301 | 0.01 | 0.02 | 0.03 | 306 |
| Vendor | 0.02 | 0.01 | 0.37 | 0.16 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 219 | 219 | 0.01 | 0.03 | 0.01 | 229 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.14 | 0.14 | 0.09 | 1.08 | 0.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.05 | 0.05 | — | 223 | 223 | 0.01 | 0.01 | 0.33 | 226 |
| Vendor | 0.01 | 0.01 | 0.25 | 0.11 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01 | 0.01 | — | 156 | 156 | < 0.005 | 0.02 | 0.14 | 163 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.02 | 0.20 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.01 | 0.01 | — | 36.9 | 36.9 | < 0.005 | < 0.005 | 0.06 | 37.5 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 25.9 | 25.9 | < 0.005 | < 0.005 | 0.02 | 27.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.14. Building Construction (2027) - Mitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.54 | 0.49 | 8.07 | 12.8 | 0.02 | 0.09 | — | 0.09 | 0.09 | — | 0.09 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.07 | 5.07 | < 0.005 | < 0.005 | < 0.005 | 5.32 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.54 | 0.49 | 8.07 | 12.8 | 0.02 | 0.09 | — | 0.09 | 0.09 | — | 0.09 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.16 | 5.16 | < 0.005 | < 0.005 | < 0.005 | 5.42 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.39 | 0.35 | 5.76 | 9.16 | 0.01 | 0.07 | — | 0.07 | 0.06 | — | 0.06 | — | 1,403 | 1,403 | 0.06 | 0.01 | — | 1,408 |
| Onsite truck | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.12 | 0.12 | < 0.005 | 0.01 | 0.01 | — | 3.65 | 3.65 | < 0.005 | < 0.005 | < 0.005 | 3.83 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 0.06 | 1.05 | 1.67 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 232 | 232 | 0.01 | < 0.005 | — | 233 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 0.60 | 0.60 | < 0.005 | < 0.005 | < 0.005 | 0.63 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.22 | 0.22 | 0.11 | 1.85 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 339 | 339 | 0.01 | 0.01 | 1.09 | 344 |
| Vendor | 0.02 | 0.01 | 0.34 | 0.15 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 219 | 219 | 0.01 | 0.03 | 0.46 | 229 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.20 | 0.18 | 0.13 | 1.50 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 301 | 301 | 0.01 | 0.02 | 0.03 | 306 |
| Vendor | 0.02 | 0.01 | 0.37 | 0.16 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 219 | 219 | 0.01 | 0.03 | 0.01 | 229 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.14 | 0.14 | 0.09 | 1.08 | 0.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.05 | 0.05 | — | 223 | 223 | 0.01 | 0.01 | 0.33 | 226 |
| Vendor | 0.01 | 0.01 | 0.25 | 0.11 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01 | 0.01 | — | 156 | 156 | < 0.005 | 0.02 | 0.14 | 2944 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.02 | 0.20 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.01 | 0.01 | — | 36.9 | 36.9 | < 0.005 | < 0.005 | 0.06 | 37.5 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 25.9 | 25.9 | < 0.005 | < 0.005 | 0.02 | 27.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.15. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.00 | 0.84 | 7.61 | 11.6 | 0.02 | 0.25 | — | 0.25 | 0.23 | — | 0.23 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.05 | 5.05 | < 0.005 | < 0.005 | < 0.005 | 5.31 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.31 | 0.48 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 80.7 | 80.7 | < 0.005 | < 0.005 | — | 81.0 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.21 | 0.21 | < 0.005 | < 0.005 | < 0.005 | 0.22 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.06 | 0.09 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 13.4 | 13.4 | < 0.005 | < 0.005 | — | 13.4 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | 0.04 |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.19 | 0.18 | 0.12 | 1.39 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 295 | 295 | 0.01 | 0.02 | 0.03 | 300 |
| Vendor | 0.02 | 0.01 | 0.35 | 0.16 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 214 | 214 | 0.01 | 0.03 | 0.01 | 224 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | < 0.005 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 12.6 | 12.6 | < 0.005 | < 0.005 | 0.02 | 12.8 |
| Vendor | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 8.78 | 8.78 | < 0.005 | < 0.005 | 0.01 | 9.18 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.08 | 2.08 | < 0.005 | < 0.005 | < 0.005 | 2.11 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.45 | 1.45 | < 0.005 | < 0.005 | < 0.005 | 1.52 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.16. Building Construction (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.53 | 0.48 | 8.03 | 12.8 | 0.02 | 0.09 | — | 0.09 | 0.08 | — | 0.08 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.05 | 5.05 | < 0.005 | < 0.005 | < 0.005 | 5.31 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.02 | 0.33 | 0.53 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 80.7 | 80.7 | < 0.005 | < 0.005 | — | 81.0 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.21 | 0.21 | < 0.005 | < 0.005 | < 0.005 | 0.22 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.06 | 0.10 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 13.4 | 13.4 | < 0.005 | < 0.005 | — | 13.4 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | 0.04 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.19 | 0.18 | 0.12 | 1.39 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 295 | 295 | 0.01 | 0.02 | 0.03 | 300 |
| Vendor | 0.02 | 0.01 | 0.35 | 0.16 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 214 | 214 | 0.01 | 0.03 | 0.01 | 224 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | < 0.005 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 12.6 | 12.6 | < 0.005 | < 0.005 | 0.02 | 12.8 |
| Vendor | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 8.78 | 8.78 | < 0.005 | < 0.005 | 0.01 | 9.18 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.08 | 2.08 | < 0.005 | < 0.005 | < 0.005 | 2.29 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.45 | 1.45 | < 0.005 | < 0.005 | < 0.005 | 1.52 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.17. Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.95 | 0.80 | 7.45 | 9.98 | 0.01 | 0.35 | — | 0.35 | 0.32 | — | 0.32 | — | 1,511 | 1,511 | 0.06 | 0.01 | — | 1,517 |
| Paving | — | 0.66 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 0.04 | 0.41 | 0.55 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 82.8 | 82.8 | < 0.005 | < 0.005 | — | 83.1 |
| Paving | — | 0.04 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.29 | 0.29 | < 0.005 | < 0.005 | < 0.005 | 0.31 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.07 | 0.10 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 13.7 | 13.7 | < 0.005 | < 0.005 | — | 13.8 |
| Paving | — | 0.01 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.05 | 0.05 | < 0.005 | < 0.005 | < 0.005 | 0.05 |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.06 | 0.04 | 0.45 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 80.7 | 80.7 | < 0.005 | < 0.005 | 0.01 | 82.0 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.7 | 52.7 | < 0.005 | 0.01 | < 0.005 | 55.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.58 | 4.58 | < 0.005 | < 0.005 | 0.01 | 4.66 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.89 | 2.89 | < 0.005 | < 0.005 | < 0.005 | 3.02 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.76 | 0.76 | < 0.005 | < 0.005 | < 0.005 | 0.77 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.48 | 0.48 | < 0.005 | < 0.005 | < 0.005 | 0.50 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.18. Paving (2025) - Mitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

2949

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.51 | 0.46 | 6.78 | 10.6 | 0.01 | 0.10 | — | 0.10 | 0.10 | — | 0.10 | — | 1,511 | 1,511 | 0.06 | 0.01 | — | 1,517 |
| Paving | — | 0.66 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.03 | 0.37 | 0.58 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 82.8 | 82.8 | < 0.005 | < 0.005 | — | 83.1 |
| Paving | — | 0.04 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.29 | 0.29 | < 0.005 | < 0.005 | < 0.005 | 0.31 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | < 0.005 | 0.07 | 0.11 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 13.7 | 13.7 | < 0.005 | < 0.005 | — | 13.8 |
| Paving | — | 0.01 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.05 | 0.05 | < 0.005 | < 0.005 | < 0.005 | 0.05 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.06 | 0.04 | 0.45 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 80.7 | 80.7 | < 0.005 | < 0.005 | 0.01 | 82.0 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.7 | 52.7 | < 0.005 | 0.01 | < 0.005 | 55.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.58 | 4.58 | < 0.005 | < 0.005 | 0.01 | 4.66 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.89 | 2.89 | < 0.005 | < 0.005 | < 0.005 | 2.95 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.76 | 0.76 | < 0.005 | < 0.005 | < 0.005 | 0.77 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.48 | 0.48 | < 0.005 | < 0.005 | < 0.005 | 0.50 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.19. Architectural Coating (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.13 | 0.11 | 0.81 | 1.12 | < 0.005 | 0.02 | — | 0.02 | 0.01 | — | 0.01 | — | 134 | 134 | 0.01 | < 0.005 | — | 134 |
| Architectural Coatings | — | 102 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.05 | 0.04 | < 0.005 | < 0.005 | 0.28 | 0.28 | < 0.005 | 0.03 | 0.03 | — | 7.58 | 7.58 | < 0.005 | < 0.005 | < 0.005 | 7.97 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.04 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 7.32 | 7.32 | < 0.005 | < 0.005 | — | 7.34 |
| Architectural Coatings | — | 5.61 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.41 | 0.41 | < 0.005 | < 0.005 | < 0.005 | |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.21 | 1.21 | < 0.005 | < 0.005 | — | 1.22 |
| Architectural Coatings | — | 1.02 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.07 | 0.07 | < 0.005 | < 0.005 | < 0.005 | 0.07 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.02 | 0.28 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.01 | 0.01 | — | 59.1 | 59.1 | < 0.005 | < 0.005 | 0.01 | 60.0 |
| Vendor | < 0.005 | < 0.005 | 0.08 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 49.4 | 49.4 | < 0.005 | 0.01 | < 0.005 | 51.6 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.35 | 3.35 | < 0.005 | < 0.005 | < 0.005 | 3.40 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.70 | 2.70 | < 0.005 | < 0.005 | < 0.005 | 2.83 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.55 | 0.55 | < 0.005 | < 0.005 | < 0.005 | 0.56 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.45 | 0.45 | < 0.005 | < 0.005 | < 0.005 | 0.47 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.20. Architectural Coating (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

2952

AGENDA ITEM NO. 17.

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.13 | 0.11 | 0.81 | 1.12 | < 0.005 | 0.02 | — | 0.02 | 0.01 | — | 0.01 | — | 134 | 134 | 0.01 | < 0.005 | — | 134 |
| Architectural Coatings | — | 102 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.05 | 0.04 | < 0.005 | < 0.005 | 0.28 | 0.28 | < 0.005 | 0.03 | 0.03 | — | 7.58 | 7.58 | < 0.005 | < 0.005 | < 0.005 | 7.97 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.04 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 7.32 | 7.32 | < 0.005 | < 0.005 | — | 7.34 |
| Architectural Coatings | — | 5.61 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.41 | 0.41 | < 0.005 | < 0.005 | < 0.005 | 0.43 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.21 | 1.21 | < 0.005 | < 0.005 | — | 1.22 |
| Architectural Coatings | — | 1.02 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.07 | 0.07 | < 0.005 | < 0.005 | < 0.005 | 0.07 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.02 | 0.28 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.01 | 0.01 | — | 59.1 | 59.1 | < 0.005 | < 0.005 | 0.01 | 60.0 |
| Vendor | < 0.005 | < 0.005 | 0.08 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 49.4 | 49.4 | < 0.005 | 0.01 | < 0.005 | 51.6 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.35 | 3.35 | < 0.005 | < 0.005 | < 0.005 | 3.40 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.70 | 2.70 | < 0.005 | < 0.005 | < 0.005 | 2.83 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.55 | 0.55 | < 0.005 | < 0.005 | < 0.005 | 0.56 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.45 | 0.45 | < 0.005 | < 0.005 | < 0.005 | 0.47 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.21. Utilities (2025) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.63 | 1.37 | 12.6 | 12.8 | 0.02 | 0.54 | — | 0.54 | 0.50 | — | 0.50 | — | 2,166 | 2,166 | 0.09 | 0.02 | — | 2,174 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.29 | 5.29 | < 0.005 | < 0.005 | < 0.005 | 5.55 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.63 | 1.37 | 12.6 | 12.8 | 0.02 | 0.54 | — | 0.54 | 0.50 | — | 0.50 | — | 2,166 | 2,166 | 0.09 | 0.02 | — | 2,174 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.71 | 0.60 | 5.51 | 5.60 | 0.01 | 0.24 | — | 0.24 | 0.22 | — | 0.22 | — | 950 | 950 | 0.04 | 0.01 | — | 953 |
| Onsite truck | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | 0.08 | 0.08 | < 0.005 | 0.01 | 0.01 | — | 2.33 | 2.33 | < 0.005 | < 0.005 | < 0.005 | 2.45 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.13 | 0.11 | 1.01 | 1.02 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 157 | 157 | 0.01 | < 0.005 | — | 158 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.39 | 0.39 | < 0.005 | < 0.005 | < 0.005 | 0.41 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.05 | 0.04 | 0.02 | 0.37 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 60.6 | 60.6 | < 0.005 | < 0.005 | 0.23 | 61.7 |
| Vendor | < 0.005 | < 0.005 | 0.08 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.6 | 52.6 | < 0.005 | 0.01 | 0.14 | 55.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.03 | 0.30 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 53.8 | 53.8 | < 0.005 | < 0.005 | 0.01 | 54.6 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.7 | 52.7 | < 0.005 | 0.01 | < 0.005 | 55.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | 0.02 | 0.02 | 0.01 | 0.13 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | — | 24.4 | 24.4 | < 0.005 | < 0.005 | 0.04 | 24.8 |
| Vendor | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 23.1 | 23.1 | < 0.005 | < 0.005 | 0.03 | 24.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.04 | 4.04 | < 0.005 | < 0.005 | 0.01 | 4.11 |
| Vendor | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 3.82 | 3.82 | < 0.005 | < 0.005 | < 0.005 | 4.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.22. Utilities (2025) - Mitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.47 | 0.43 | 6.98 | 12.2 | 0.02 | 0.09 | — | 0.09 | 0.09 | — | 0.09 | — | 2,166 | 2,166 | 0.09 | 0.02 | — | 2,174 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.29 | 5.29 | < 0.005 | < 0.005 | < 0.005 | 5.55 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.47 | 0.43 | 6.98 | 12.2 | 0.02 | 0.09 | — | 0.09 | 0.09 | — | 0.09 | — | 2,166 | 2,166 | 0.09 | 0.02 | — | 2,174 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.21 | 0.19 | 3.06 | 5.36 | 0.01 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 950 | 950 | 0.04 | 0.01 | — | 953 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | 0.08 | 0.08 | < 0.005 | 0.01 | 0.01 | — | 2.33 | 2.33 | < 0.005 | < 0.005 | < 0.005 | 2.45 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.56 | 0.98 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 157 | 157 | 0.01 | < 0.005 | — | 158 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.39 | 0.39 | < 0.005 | < 0.005 | < 0.005 | 0.41 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.05 | 0.04 | 0.02 | 0.37 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 60.6 | 60.6 | < 0.005 | < 0.005 | 0.23 | 61.7 |
| Vendor | < 0.005 | < 0.005 | 0.08 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.6 | 52.6 | < 0.005 | 0.01 | 0.14 | 55.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.03 | 0.30 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 53.8 | 53.8 | < 0.005 | < 0.005 | 0.01 | 54.6 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.7 | 52.7 | < 0.005 | 0.01 | < 0.005 | 55.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.01 | 0.13 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | — | 24.4 | 24.4 | < 0.005 | < 0.005 | 0.04 | 24.8 |
| Vendor | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 23.1 | 23.1 | < 0.005 | < 0.005 | 0.03 | 24.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.04 | 4.04 | < 0.005 | < 0.005 | 0.01 | 4.11 |
| Vendor | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 3.82 | 3.82 | < 0.005 | < 0.005 | < 0.005 | 4.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

AGENDA ITEM NO. 17.

# 4. Operations Emissions Details

## 4.10. Soil Carbon Accumulation By Vegetation Type

### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequest | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

# 5. Activity Data

## 5.1. Construction Schedule

| Phase Name | Phase Type | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|---|---|---|---|---|---|---|
| Demolition | Demolition | 11/1/2024 | 11/29/2024 | 5.00 | 20.0 | — |
| Site Preparation | Site Preparation | 11/30/2024 | 12/14/2024 | 5.00 | 10.0 | — |
| Grading | Grading | 12/15/2024 | 1/26/2025 | 5.00 | 30.0 | — |
| Building Construction | Building Construction | 10/04/2025 | 1/21/2028 | 5.00 | 600 | — |
| Paving | Paving | 1/27/2025 | 2/21/2025 | 5.00 | 20.0 | — |
| Architectural Coating | Architectural Coating | 1/22/2028 | 2/18/2028 | 5.00 | 20.0 | — |
| Utilities | Trenching | 2/22/2025 | 10/03/2025 | 5.00 | 160 | — |

AGENDA ITEM NO. 17.

## 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|---|
| Demolition | Rubber Tired Dozers | Diesel | Average | 2.00 | 8.00 | 367 | 0.40 |
| Demolition | Excavators | Diesel | Average | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Concrete/Industrial Saws | Diesel | Average | 1.00 | 8.00 | 33.0 | 0.73 |
| Site Preparation | Rubber Tired Dozers | Diesel | Average | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Average | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Excavators | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Grading | Scrapers | Diesel | Average | 2.00 | 8.00 | 423 | 0.48 |
| Grading | Rubber Tired Dozers | Diesel | Average | 1.00 | 8.00 | 367 | 0.40 |
| Building Construction | Forklifts | Diesel | Average | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Cranes | Diesel | Average | 1.00 | 3.50 | 367 | 0.29 |
| Building Construction | Welders | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Average | 3.00 | 7.00 | 84.0 | 0.37 |
| Paving | Pavers | Diesel | Average | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Average | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |
| Utilities | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Utilities | Trenchers | Diesel | Average | 1.00 | 8.00 | 40.0 | 0.50 |
| Utilities | Rubber Tired Dozers | Diesel | Average | 1.00 | 8.00 | 367 | 0.40 |

### 5.2.2. Mitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|---|
| Demolition | Rubber Tired Dozers | Diesel | Tier 4 Interim | 2.00 | 8.00 | 367 | 0.40 |
| Demolition | Excavators | Diesel | Average | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Concrete/Industrial Saws | Diesel | Average | 1.00 | 8.00 | 33.0 | 0.73 |
| Site Preparation | Rubber Tired Dozers | Diesel | Tier 4 Interim | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Tier 4 Interim | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Graders | Diesel | Tier 4 Interim | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Excavators | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Tier 4 Interim | 2.00 | 8.00 | 84.0 | 0.37 |
| Grading | Scrapers | Diesel | Tier 4 Interim | 2.00 | 8.00 | 423 | 0.48 |
| Grading | Rubber Tired Dozers | Diesel | Tier 4 Interim | 1.00 | 8.00 | 367 | 0.40 |
| Building Construction | Forklifts | Diesel | Tier 4 Interim | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Cranes | Diesel | Tier 4 Interim | 1.00 | 3.50 | 367 | 0.29 |
| Building Construction | Welders | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Tier 4 Interim | 3.00 | 7.00 | 84.0 | 0.37 |
| Paving | Pavers | Diesel | Tier 4 Interim | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Tier 4 Interim | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Utilities | Tractors/Loaders/Backhoes | Diesel | Tier 4 Interim | 2.00 | 8.00 | 84.0 | 0.37 |
| Utilities | Trenchers | Diesel | Average | 1.00 | 8.00 | 40.0 | 0.50 |
| Utilities | Rubber Tired Dozers | Diesel | Tier 4 Interim | 1.00 | 8.00 | 367 | 0.40 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|---|---|---|---|---|
| Demolition | — | — | — | — |
| Demolition | Worker | 15.0 | 7.70 | LDA,LDT1,LDT2 |
| Demolition | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Demolition | Hauling | 0.95 | 20.0 | HHDT |
| Demolition | Onsite truck | 2.00 | 0.25 | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 17.5 | 7.70 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | 2.00 | 0.25 | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 20.0 | 7.70 | LDA,LDT1,LDT2 |
| Grading | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Grading | Hauling | 20.8 | 20.0 | HHDT |
| Grading | Onsite truck | 2.00 | 0.25 | HHDT |
| Building Construction | — | — | — | — |
| Building Construction | Worker | 58.3 | 7.70 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 17.3 | 4.00 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |

| | | | | |
|---|---|---|---|---|
| Building Construction | Onsite truck | 2.00 | 0.25 | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 15.0 | 7.70 | LDA,LDT1,LDT2 |
| Paving | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | 2.00 | 0.25 | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 11.7 | 7.70 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | 3.00 | 0.25 | HHDT |
| Utilities | — | — | — | — |
| Utilities | Worker | 10.0 | 7.70 | LDA,LDT1,LDT2 |
| Utilities | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Utilities | Hauling | 0.00 | 20.0 | HHDT |
| Utilities | Onsite truck | 2.00 | 0.25 | HHDT |

### 5.3.2. Mitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|---|---|---|---|---|
| Demolition | — | — | — | — |
| Demolition | Worker | 15.0 | 7.70 | LDA,LDT1,LDT2 |
| Demolition | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Demolition | Hauling | 0.95 | 20.0 | HHDT |
| Demolition | Onsite truck | 2.00 | 0.25 | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 17.5 | 7.70 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | 4.00 | 4.00 | HHDT,MHDT |

| | | | | |
|---|---|---|---|---|
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | 2.00 | 0.25 | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 20.0 | 7.70 | LDA,LDT1,LDT2 |
| Grading | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Grading | Hauling | 20.8 | 20.0 | HHDT |
| Grading | Onsite truck | 2.00 | 0.25 | HHDT |
| Building Construction | — | — | — | — |
| Building Construction | Worker | 58.3 | 7.70 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 17.3 | 4.00 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | 2.00 | 0.25 | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 15.0 | 7.70 | LDA,LDT1,LDT2 |
| Paving | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | 2.00 | 0.25 | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 11.7 | 7.70 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | 3.00 | 0.25 | HHDT |
| Utilities | — | — | — | — |
| Utilities | Worker | 10.0 | 7.70 | LDA,LDT1,LDT2 |
| Utilities | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Utilities | Hauling | 0.00 | 20.0 | HHDT |
| Utilities | Onsite truck | 2.00 | 0.25 | HHDT |

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## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

| Control Strategies Applied | PM10 Reduction | PM2.5 Reduction |
|---|---|---|
| Water unpaved roads twice daily | 55% | 55% |
| Limit vehicle speeds on unpaved roads to 25 mph | 44% | 44% |

## 5.5. Architectural Coatings

| Phase Name | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|---|---|---|---|---|---|
| Architectural Coating | 639,698 | 213,233 | 0.00 | 0.00 | 15,146 |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (Building Square Footage) | Acres Paved (acres) |
|---|---|---|---|---|---|
| Demolition | 0.00 | 0.00 | 0.00 | 1,650 | — |
| Site Preparation | — | — | 15.0 | 0.00 | — |
| Grading | 2,500 | 2,500 | 90.0 | 0.00 | — |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 7.58 |

### 5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|---|---|---|---|
| Water Exposed Area | 2 | 61% | 61% |
| Water Demolished Area | 2 | 36% | 36% |

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## 5.7. Construction Paving

| Land Use | Area Paved (acres) | % Asphalt |
|---|---|---|
| Single Family Housing | 1.79 | 0% |
| City Park | 0.00 | 0% |
| Other Asphalt Surfaces | 5.07 | 100% |
| Other Non-Asphalt Surfaces | 0.73 | 0% |

## 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4 | N2O |
|---|---|---|---|---|
| 2024 | 0.00 | 204 | 0.03 | < 0.005 |
| 2025 | 0.00 | 204 | 0.03 | < 0.005 |
| 2026 | 0.00 | 204 | 0.03 | < 0.005 |
| 2027 | 0.00 | 204 | 0.03 | < 0.005 |
| 2028 | 0.00 | 204 | 0.03 | < 0.005 |

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|---|---|---|---|

#### 5.18.1.2. Mitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|---|---|---|---|

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### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|---|---|---|

#### 5.18.1.2. Mitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|---|---|---|

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|---|---|---|---|

#### 5.18.2.2. Mitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|---|---|---|---|

## 8. User Changes to Default Data

| Screen | Justification |
|---|---|
| Land Use | Land uses based on the project site plan. 162 single-family residential homes and 2 parks on approximately 14.57 gross acres. Acreage for homes based on lot sizes. |
| Construction: Construction Phases | Lot development to occur prior to building construction.<br>Construction to start as early as November 2024 and last until 2028. Utilities phase added and building construction phase doubled to reflect applicant-provided construction schedule. |
| Operations: Vehicle Data | Trip rates for single-family housing from the ITE Trip Generation Rates, 11th Edition.<br>ITE Land Use Code 210 (Single-family detached housing)<br>The parks will serve as amenities for the subdivision. |
| Operations: Fleet Mix | SJVAPCD-approved residential fleet mix for the 2025 operational year applied to single-fam es. |

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| | |
|---|---|
| Operations: Hearths | SJVAPCD Rule 4901 Woodburning No woodburning fireplaces or wood stoves |
| Construction: Off-Road Equipment | Equipment added to the utilities phase. Crane usage adjusted to retain default HP hours, as the duration for the building construction phase was doubled. |

AGENDA ITEM NO. 17.

# TM6467 - Mitigated Construction (Level 3 Filters) Custom Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field | Value |
|---|---|
| Project Name | TM6467 - Mitigated Construction (Level 3 Filters) |
| Construction Start Date | 11/1/2024 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.70 |
| Precipitation (days) | 21.2 |
| Location | 36.872631, -119.708339 |
| County | Fresno |
| City | Unincorporated |
| Air District | San Joaquin Valley APCD |
| Air Basin | San Joaquin Valley |
| TAZ | 2569 |
| EDFZ | 5 |
| Electric Utility | Pacific Gas & Electric Company |
| Gas Utility | Pacific Gas & Electric |
| App Version | 2022.1.1.21 |

## 1.2. Land Use Types

| Land Use Subtype | Size | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|---|---|---|---|---|---|---|---|---|
| Single Family Housing | 162 | Dwelling Unit | 8.30 | 315,900 | 1,897,483 | — | 518 | 162 single residential |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| City Park | 0.50 | Acre | 0.50 | 0.00 | 21,997 | 21,997 | — | Two parks totaling 21,997 square feet |
| Other Asphalt Surfaces | 5.07 | Acre | 5.07 | 0.00 | 22,063 | — | — | — |
| Other Non-Asphalt Surfaces | 0.73 | Acre | 0.73 | 0.00 | 3,180 | — | — | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector | # | Measure Title |
|---|---|---|
| Construction | C-6 | Use Diesel Particulate Filters |

## 2. Emissions Summary

### 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 1.68 | 1.41 | 12.7 | 13.2 | 0.02 | 0.54 | 0.25 | 0.79 | 0.50 | 0.04 | 0.53 | — | 2,285 | 2,285 | 0.09 | 0.03 | 0.37 | 2,296 |
| 2026 | 1.35 | 1.15 | 8.85 | 13.8 | 0.02 | 0.32 | 0.56 | 0.88 | 0.29 | 0.11 | 0.40 | — | 2,539 | 2,539 | 0.10 | 0.07 | 1.73 | 2,563 |
| 2027 | 1.29 | 1.10 | 8.44 | 13.6 | 0.02 | 0.28 | 0.56 | 0.84 | 0.26 | 0.11 | 0.37 | — | 2,527 | 2,527 | 0.09 | 0.06 | 1.55 | 2,549 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 4.42 | 3.72 | 36.4 | 33.6 | 0.07 | 1.60 | 7.96 | 9.56 | 1.47 | 3.98 | 5.46 | — | 8,254 | 8,254 | 0.31 | 0.30 | 0.11 | 8,352 |
| 2025 | 3.95 | 3.30 | 31.7 | 29.4 | 0.07 | 1.26 | 4.29 | 5.55 | 1.16 | 1.58 | 2.74 | — | 8,222 | 8,222 | 0.31 | 0.29 | 0.11 | 8,318 |
| 2026 | 1.32 | 1.13 | 8.91 | 13.4 | 0.02 | 0.32 | 0.56 | 0.88 | 0.29 | 0.11 | 0.40 | — | 2,501 | 2,501 | 0.10 | 0.07 | 0.04 | 2,523 |
| 2027 | 1.26 | 1.07 | 8.49 | 13.3 | 0.02 | 0.28 | 0.56 | 0.84 | 0.26 | 0.11 | 0.37 | — | 2,489 | 2,489 | 0.10 | 0.06 | 0.04 | 2,511 |

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| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2028 | 1.21 | 103 | 8.12 | 13.2 | 0.02 | 0.25 | 0.56 | 0.81 | 0.23 | 0.11 | 0.34 | — | 2,478 | 2,478 | 0.10 | 0.06 | 0.04 | 2,500 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.44 | 0.37 | 3.58 | 3.19 | 0.01 | 0.15 | 0.38 | 0.53 | 0.14 | 0.16 | 0.30 | — | 623 | 623 | 0.02 | 0.01 | 0.08 | 628 |
| 2025 | 1.24 | 1.08 | 9.24 | 10.2 | 0.02 | 0.39 | 0.43 | 0.82 | 0.35 | 0.12 | 0.47 | — | 1,948 | 1,948 | 0.08 | 0.04 | 0.32 | 1,962 |
| 2026 | 0.95 | 0.81 | 6.34 | 9.61 | 0.01 | 0.23 | 0.39 | 0.62 | 0.21 | 0.08 | 0.29 | — | 1,794 | 1,794 | 0.07 | 0.05 | 0.53 | 1,810 |
| 2027 | 0.90 | 0.77 | 6.05 | 9.50 | 0.01 | 0.20 | 0.39 | 0.59 | 0.18 | 0.08 | 0.26 | — | 1,786 | 1,786 | 0.07 | 0.05 | 0.48 | 1,801 |
| 2028 | 0.06 | 5.66 | 0.39 | 0.62 | < 0.005 | 0.01 | 0.04 | 0.05 | 0.01 | 0.01 | 0.02 | — | 116 | 116 | < 0.005 | < 0.005 | 0.03 | 117 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.08 | 0.07 | 0.65 | 0.58 | < 0.005 | 0.03 | 0.07 | 0.10 | 0.03 | 0.03 | 0.06 | — | 103 | 103 | < 0.005 | < 0.005 | 0.01 | 104 |
| 2025 | 0.23 | 0.20 | 1.69 | 1.86 | < 0.005 | 0.07 | 0.08 | 0.15 | 0.06 | 0.02 | 0.09 | — | 322 | 322 | 0.01 | 0.01 | 0.05 | 325 |
| 2026 | 0.17 | 0.15 | 1.16 | 1.75 | < 0.005 | 0.04 | 0.07 | 0.11 | 0.04 | 0.01 | 0.05 | — | 297 | 297 | 0.01 | 0.01 | 0.09 | 300 |
| 2027 | 0.16 | 0.14 | 1.10 | 1.73 | < 0.005 | 0.04 | 0.07 | 0.11 | 0.03 | 0.01 | 0.05 | — | 296 | 296 | 0.01 | 0.01 | 0.08 | 298 |
| 2028 | 0.01 | 1.03 | 0.07 | 0.11 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 19.2 | 19.2 | < 0.005 | < 0.005 | 0.01 | 19.4 |

## 2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 1.68 | 1.41 | 12.7 | 13.2 | 0.02 | 0.13 | 0.25 | 0.38 | 0.12 | 0.04 | 0.16 | — | 2,285 | 2,285 | 0.09 | 0.03 | 0.37 | 2,296 |
| 2026 | 1.35 | 1.15 | 8.85 | 13.8 | 0.02 | 0.11 | 0.56 | 0.67 | 0.10 | 0.11 | 0.21 | — | 2,539 | 2,539 | 0.10 | 0.07 | 1.73 | 2,563 |
| 2027 | 1.29 | 1.10 | 8.44 | 13.6 | 0.02 | 0.10 | 0.56 | 0.66 | 0.09 | 0.11 | 0.20 | — | 2,527 | 2,527 | 0.09 | 0.06 | 1.55 | 2,549 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 4.42 | 3.72 | 36.4 | 33.6 | 0.07 | 0.29 | 7.96 | 8.20 | 0.27 | 3.98 | 4.21 | — | 8,254 | 8,254 | 0.31 | 0.30 | 0.11 | 8,352 |
| 2025 | 3.95 | 3.30 | 31.7 | 29.4 | 0.07 | 0.26 | 4.29 | 4.54 | 0.24 | 1.58 | 1.82 | — | 8,222 | 8,222 | 0.31 | 0.29 | 0.11 | 2978 |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2026 | 1.32 | 1.13 | 8.91 | 13.4 | 0.02 | 0.11 | 0.56 | 0.67 | 0.10 | 0.11 | 0.21 | — | 2,501 | 2,501 | 0.10 | 0.07 | 0.04 | 2,523 |
| 2027 | 1.26 | 1.07 | 8.49 | 13.3 | 0.02 | 0.10 | 0.56 | 0.66 | 0.09 | 0.11 | 0.20 | — | 2,489 | 2,489 | 0.10 | 0.06 | 0.04 | 2,511 |
| 2028 | 1.21 | 103 | 8.12 | 13.2 | 0.02 | 0.09 | 0.56 | 0.65 | 0.08 | 0.11 | 0.19 | — | 2,478 | 2,478 | 0.10 | 0.06 | 0.04 | 2,500 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.44 | 0.37 | 3.58 | 3.19 | 0.01 | 0.03 | 0.38 | 0.41 | 0.03 | 0.16 | 0.19 | — | 623 | 623 | 0.02 | 0.01 | 0.08 | 628 |
| 2025 | 1.24 | 1.08 | 9.24 | 10.2 | 0.02 | 0.10 | 0.43 | 0.53 | 0.09 | 0.12 | 0.21 | — | 1,948 | 1,948 | 0.08 | 0.04 | 0.32 | 1,962 |
| 2026 | 0.95 | 0.81 | 6.34 | 9.61 | 0.01 | 0.08 | 0.39 | 0.47 | 0.07 | 0.08 | 0.15 | — | 1,794 | 1,794 | 0.07 | 0.05 | 0.53 | 1,810 |
| 2027 | 0.90 | 0.77 | 6.05 | 9.50 | 0.01 | 0.07 | 0.39 | 0.46 | 0.06 | 0.08 | 0.14 | — | 1,786 | 1,786 | 0.07 | 0.05 | 0.48 | 1,801 |
| 2028 | 0.06 | 5.66 | 0.39 | 0.62 | < 0.005 | < 0.005 | 0.04 | 0.05 | < 0.005 | 0.01 | 0.01 | — | 116 | 116 | < 0.005 | < 0.005 | 0.03 | 117 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.08 | 0.07 | 0.65 | 0.58 | < 0.005 | 0.01 | 0.07 | 0.07 | 0.01 | 0.03 | 0.04 | — | 103 | 103 | < 0.005 | < 0.005 | 0.01 | 104 |
| 2025 | 0.23 | 0.20 | 1.69 | 1.86 | < 0.005 | 0.02 | 0.08 | 0.10 | 0.02 | 0.02 | 0.04 | — | 322 | 322 | 0.01 | 0.01 | 0.05 | 325 |
| 2026 | 0.17 | 0.15 | 1.16 | 1.75 | < 0.005 | 0.01 | 0.07 | 0.09 | 0.01 | 0.01 | 0.03 | — | 297 | 297 | 0.01 | 0.01 | 0.09 | 300 |
| 2027 | 0.16 | 0.14 | 1.10 | 1.73 | < 0.005 | 0.01 | 0.07 | 0.08 | 0.01 | 0.01 | 0.03 | — | 296 | 296 | 0.01 | 0.01 | 0.08 | 298 |
| 2028 | 0.01 | 1.03 | 0.07 | 0.11 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 19.2 | 19.2 | < 0.005 | < 0.005 | 0.01 | 19.4 |

# 3. Construction Emissions Details

## 3.1. Demolition (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 3.12 | 2.62 | 24.9 | 21.7 | 0.03 | 1.06 | — | 1.06 | 0.98 | — | 0.98 | — | 3,425 | 3,425 | 0.14 | 0.03 | — | 3,437 |
| Demolition | — | — | — | — | — | — | 0.05 | 0.05 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.49 | 5.49 | < 0.005 | < 0.005 | < 0.005 | 5.77 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.17 | 0.14 | 1.36 | 1.19 | < 0.005 | 0.06 | — | 0.06 | 0.05 | — | 0.05 | — | 188 | 188 | 0.01 | < 0.005 | — | 188 |
| Demolition | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.30 | 0.30 | < 0.005 | < 0.005 | < 0.005 | 0.31 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.03 | 0.25 | 0.22 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 31.1 | 31.1 | < 0.005 | < 0.005 | — | 31.2 |
| Demolition | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.05 | 0.05 | < 0.005 | < 0.005 | < 0.005 | 0.05 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.06 | 0.05 | 0.49 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 82.4 | 82.4 | < 0.005 | < 0.005 | 0.01 | 83.7 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 53.7 | 53.7 | < 0.005 | 0.01 | < 0.005 | 56.0 |
| Hauling | < 0.005 | < 0.005 | 0.09 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01 | — | 67.8 | 67.8 | < 0.005 | 0.01 | < 0.005 | 71.0 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.68 | 4.68 | < 0.005 | < 0.005 | 0.01 | 4.76 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.94 | 2.94 | < 0.005 | < 0.005 | < 0.005 | 3.07 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 3.71 | 3.71 | < 0.005 | < 0.005 | < 0.005 | 3.89 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.77 | 0.77 | < 0.005 | < 0.005 | < 0.005 | 0.79 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.49 | 0.49 | < 0.005 | < 0.005 | < 0.005 | 0.51 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.61 | 0.61 | < 0.005 | < 0.005 | < 0.005 | 0.64 |

## 3.2. Demolition (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 3.12 | 2.62 | 24.9 | 21.7 | 0.03 | 0.27 | — | 0.27 | 0.25 | — | 0.25 | — | 3,425 | 3,425 | 0.14 | 0.03 | — | 3,437 |
| Demolition | — | — | — | — | — | — | 0.05 | 0.05 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.49 | 5.49 | < 0.005 | < 0.005 | < 0.005 | 5.77 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.17 | 0.14 | 1.36 | 1.19 | < 0.005 | 0.02 | — | 0.02 | 0.01 | — | 0.01 | — | 188 | 188 | 0.01 | < 0.005 | — | 188 |
| Demolition | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |

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AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.30 | 0.30 | < 0.005 | < 0.005 | < 0.005 | 0.31 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.03 | 0.25 | 0.22 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 31.1 | 31.1 | < 0.005 | < 0.005 | — | 31.2 |
| Demolition | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.05 | 0.05 | < 0.005 | < 0.005 | < 0.005 | 0.05 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.06 | 0.05 | 0.49 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 82.4 | 82.4 | < 0.005 | < 0.005 | 0.01 | 83.7 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 53.7 | 53.7 | < 0.005 | 0.01 | < 0.005 | 56.0 |
| Hauling | < 0.005 | < 0.005 | 0.09 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01 | — | 67.8 | 67.8 | < 0.005 | 0.01 | < 0.005 | 71.0 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.68 | 4.68 | < 0.005 | < 0.005 | 0.01 | 4.76 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.94 | 2.94 | < 0.005 | < 0.005 | < 0.005 | 3.07 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 3.71 | 3.71 | < 0.005 | < 0.005 | < 0.005 | 3.89 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.77 | 0.77 | < 0.005 | < 0.005 | < 0.005 | 0.79 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.49 | 0.49 | < 0.005 | < 0.005 | < 0.005 | 0.51 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.61 | 0.61 | < 0.005 | < 0.005 | < 0.005 | 0.64 |

## 3.3. Site Preparation (2024) - Unmitigated

2982

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.34 | 3.65 | 36.0 | 32.9 | 0.05 | 1.60 | — | 1.60 | 1.47 | — | 1.47 | — | 5,296 | 5,296 | 0.21 | 0.04 | — | 5,314 |
| Dust From Material Movement | — | — | — | — | — | — | 7.67 | 7.67 | — | 3.94 | 3.94 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.49 | 5.49 | < 0.005 | < 0.005 | < 0.005 | 5.77 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.12 | 0.10 | 0.99 | 0.90 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 145 | 145 | 0.01 | < 0.005 | — | 146 |
| Dust From Material Movement | — | — | — | — | — | — | 0.21 | 0.21 | — | 0.11 | 0.11 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.15 | 0.15 | < 0.005 | < 0.005 | < 0.005 | 0.16 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.02 | 0.18 | 0.16 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 24.0 | 24.0 | < 0.005 | < 0.005 | — | 24.1 |
| Dust From Material Movement | — | — | — | — | — | — | 0.04 | 0.04 | — | 0.02 | 0.02 | — | — | — | — | — | — | — |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | 0.03 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 96.2 | 96.2 | < 0.005 | < 0.005 | 0.01 | 97.6 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 53.7 | 53.7 | < 0.005 | 0.01 | < 0.005 | 56.0 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.73 | 2.73 | < 0.005 | < 0.005 | 0.01 | 2.78 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.47 | 1.47 | < 0.005 | < 0.005 | < 0.005 | 1.53 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.45 | 0.45 | < 0.005 | < 0.005 | < 0.005 | 0.46 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.24 | 0.24 | < 0.005 | < 0.005 | < 0.005 | 0.25 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.4. Site Preparation (2024) - Mitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.34 | 3.65 | 36.0 | 32.9 | 0.05 | 0.24 | — | 0.24 | 0.22 | — | 0.22 | — | 5,296 | 5,296 | 0.21 | 0.04 | — | 5,314 |
| Dust From Material Movement | — | — | — | — | — | — | 7.67 | 7.67 | — | 3.94 | 3.94 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.49 | 5.49 | < 0.005 | < 0.005 | < 0.005 | 5.77 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.12 | 0.10 | 0.99 | 0.90 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 145 | 145 | 0.01 | < 0.005 | — | 146 |
| Dust From Material Movement | — | — | — | — | — | — | 0.21 | 0.21 | — | 0.11 | 0.11 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.15 | 0.15 | < 0.005 | < 0.005 | < 0.005 | 0.16 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.02 | 0.18 | 0.16 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 24.0 | 24.0 | < 0.005 | < 0.005 | — | 24.1 |
| Dust From Material Movement | — | — | — | — | — | — | 0.04 | 0.04 | — | 0.02 | 0.02 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | 0.03 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.07 | 0.06 | 0.57 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 96.2 | 96.2 | < 0.005 | < 0.005 | 0.01 | 97.6 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 53.7 | 53.7 | < 0.005 | 0.01 | < 0.005 | 56.0 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.73 | 2.73 | < 0.005 | < 0.005 | 0.01 | 2.78 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.47 | 1.47 | < 0.005 | < 0.005 | < 0.005 | 1.53 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.45 | 0.45 | < 0.005 | < 0.005 | < 0.005 | 0.46 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.24 | 0.24 | < 0.005 | < 0.005 | < 0.005 | 0.25 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.5. Grading (2024) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.19 | 3.52 | 34.3 | 30.2 | 0.06 | 1.45 | — | 1.45 | 1.33 | — | 1.33 | — | 6,598 | 6,598 | 0.27 | 0.05 | — | 6,621 |

2986

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dust From Material Movement | — | — | — | — | — | — | 3.59 | 3.59 | — | 1.43 | 1.43 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.49 | 5.49 | < 0.005 | < 0.005 | < 0.005 | 5.77 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 0.12 | 1.14 | 1.00 | < 0.005 | 0.05 | — | 0.05 | 0.04 | — | 0.04 | — | 220 | 220 | 0.01 | < 0.005 | — | 220 |
| Dust From Material Movement | — | — | — | — | — | — | 0.12 | 0.12 | — | 0.05 | 0.05 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.18 | 0.18 | < 0.005 | < 0.005 | < 0.005 | 0.19 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.02 | 0.21 | 0.18 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 36.3 | 36.3 | < 0.005 | < 0.005 | — | 36.5 |
| Dust From Material Movement | — | — | — | — | — | — | 0.02 | 0.02 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | 0.03 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.08 | 0.06 | 0.66 | 0.00 | 0.00 | 0.11 | 0.11 | 0.00 | 0.03 | 0.03 | — | 110 | 110 | 0.01 | 0.01 | 0.01 | 112 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 53.7 | 53.7 | < 0.005 | 0.01 | < 0.005 | 56.0 |
| Hauling | 0.07 | 0.03 | 1.92 | 0.44 | 0.01 | 0.03 | 0.39 | 0.41 | 0.03 | 0.11 | 0.13 | — | 1,487 | 1,487 | 0.03 | 0.24 | 0.09 | 1,529 |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.79 | 3.79 | < 0.005 | < 0.005 | 0.01 | 3.85 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.78 | 1.78 | < 0.005 | < 0.005 | < 0.005 | 1.86 |
| Hauling | < 0.005 | < 0.005 | 0.06 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 49.4 | 49.4 | < 0.005 | 0.01 | 0.05 | 51.9 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.63 | 0.63 | < 0.005 | < 0.005 | < 0.005 | 0.64 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.30 | 0.30 | < 0.005 | < 0.005 | < 0.005 | 0.31 |
| Hauling | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 8.19 | 8.19 | < 0.005 | < 0.005 | 0.01 | 8.58 |

## 3.6. Grading (2024) - Mitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.19 | 3.52 | 34.3 | 30.2 | 0.06 | 0.27 | — | 0.27 | 0.24 | — | 0.24 | — | 6,598 | 6,598 | 0.27 | 0.05 | — | 6,621 |
| Dust From Material Movement | — | — | — | — | — | — | 3.59 | 3.59 | — | 1.43 | 1.43 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.49 | 5.49 | < 0.005 | < 0.005 | < 0.005 | 5.77 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 0.12 | 1.14 | 1.00 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 220 | 220 | 0.01 | < 0.005 | — | 220 |

2988

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dust From Material Movement | — | — | — | — | — | — | 0.12 | 0.12 | — | 0.05 | 0.05 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.18 | 0.18 | < 0.005 | < 0.005 | < 0.005 | 0.19 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.02 | 0.21 | 0.18 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 36.3 | 36.3 | < 0.005 | < 0.005 | — | 36.5 |
| Dust From Material Movement | — | — | — | — | — | — | 0.02 | 0.02 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | 0.03 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.08 | 0.06 | 0.66 | 0.00 | 0.00 | 0.11 | 0.11 | 0.00 | 0.03 | 0.03 | — | 110 | 110 | 0.01 | 0.01 | 0.01 | 112 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 53.7 | 53.7 | < 0.005 | 0.01 | < 0.005 | 56.0 |
| Hauling | 0.07 | 0.03 | 1.92 | 0.44 | 0.01 | 0.03 | 0.39 | 0.41 | 0.03 | 0.11 | 0.13 | — | 1,487 | 1,487 | 0.03 | 0.24 | 0.09 | 1,558 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.79 | 3.79 | < 0.005 | < 0.005 | 0.01 | 3.85 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.78 | 1.78 | < 0.005 | < 0.005 | < 0.005 | 1.86 |
| Hauling | < 0.005 | < 0.005 | 0.06 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 49.4 | 49.4 | < 0.005 | 0.01 | 0.05 | 51.9 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.63 | 0.63 | < 0.005 | < 0.005 | < 0.005 | 0.64 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.30 | 0.30 | < 0.005 | < 0.005 | < 0.005 | 0.31 |

2989

AGENDA ITEM NO. 17.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 8.19 | 8.19 | < 0.005 | < 0.005 | 0.01 | 8.58 |

## 3.7. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 3.80 | 3.20 | 29.7 | 28.3 | 0.06 | 1.23 | — | 1.23 | 1.14 | — | 1.14 | — | 6,599 | 6,599 | 0.27 | 0.05 | — | 6,622 |
| Dust From Material Movement | — | — | — | — | — | — | 3.59 | 3.59 | — | 1.43 | 1.43 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.19 | 0.16 | 1.51 | 1.44 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 336 | 336 | 0.01 | < 0.005 | — | 337 |
| Dust From Material Movement | — | — | — | — | — | — | 0.18 | 0.18 | — | 0.07 | 0.07 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.27 | 0.27 | < 0.005 | < 0.005 | < 0.005 | 0.28 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.28 | 0.26 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 55.6 | 55.6 | < 0.005 | < 0.005 | — | 55.8 |

2990

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dust From Material Movement | — | — | — | — | — | — | 0.03 | 0.03 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.04 | 0.04 | < 0.005 | < 0.005 | < 0.005 | 0.05 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.08 | 0.08 | 0.05 | 0.60 | 0.00 | 0.00 | 0.11 | 0.11 | 0.00 | 0.03 | 0.03 | — | 108 | 108 | < 0.005 | 0.01 | 0.01 | 109 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.7 | 52.7 | < 0.005 | 0.01 | < 0.005 | 55.1 |
| Hauling | 0.06 | 0.02 | 1.86 | 0.44 | 0.01 | 0.03 | 0.39 | 0.41 | 0.03 | 0.11 | 0.13 | — | 1,458 | 1,458 | 0.03 | 0.23 | 0.09 | 1,526 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 5.67 | 5.67 | < 0.005 | < 0.005 | 0.01 | 5.77 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.68 | 2.68 | < 0.005 | < 0.005 | < 0.005 | 2.80 |
| Hauling | < 0.005 | < 0.005 | 0.09 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.01 | 0.01 | — | 74.1 | 74.1 | < 0.005 | 0.01 | 0.08 | 77.7 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.94 | 0.94 | < 0.005 | < 0.005 | < 0.005 | 0.95 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.44 | 0.44 | < 0.005 | < 0.005 | < 0.005 | 0.46 |
| Hauling | < 0.005 | < 0.005 | 0.02 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 12.3 | 12.3 | < 0.005 | < 0.005 | 0.01 | 12.9 |

## 3.8. Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 3.80 | 3.20 | 29.7 | 28.3 | 0.06 | 0.23 | — | 0.23 | 0.21 | — | 0.21 | — | 6,599 | 6,599 | 0.27 | 0.05 | — | 6,622 |
| Dust From Material Movement | — | — | — | — | — | — | 3.59 | 3.59 | — | 1.43 | 1.43 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.19 | 0.16 | 1.51 | 1.44 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 336 | 336 | 0.01 | < 0.005 | — | 337 |
| Dust From Material Movement | — | — | — | — | — | — | 0.18 | 0.18 | — | 0.07 | 0.07 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.27 | 0.27 | < 0.005 | < 0.005 | < 0.005 | 0.28 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.28 | 0.26 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 55.6 | 55.6 | < 0.005 | < 0.005 | — | 55.8 |
| Dust From Material Movement | — | — | — | — | — | — | 0.03 | 0.03 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.04 | 0.04 | < 0.005 | < 0.005 | < 0.005 | 0.05 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.08 | 0.08 | 0.05 | 0.60 | 0.00 | 0.00 | 0.11 | 0.11 | 0.00 | 0.03 | 0.03 | — | 108 | 108 | < 0.005 | 0.01 | 0.01 | 109 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.7 | 52.7 | < 0.005 | 0.01 | < 0.005 | 55.1 |
| Hauling | 0.06 | 0.02 | 1.86 | 0.44 | 0.01 | 0.03 | 0.39 | 0.41 | 0.03 | 0.11 | 0.13 | — | 1,458 | 1,458 | 0.03 | 0.23 | 0.09 | 1,526 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 5.67 | 5.67 | < 0.005 | < 0.005 | 0.01 | 5.77 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.68 | 2.68 | < 0.005 | < 0.005 | < 0.005 | 2.80 |
| Hauling | < 0.005 | < 0.005 | 0.09 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.01 | 0.01 | — | 74.1 | 74.1 | < 0.005 | 0.01 | 0.08 | 77.7 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.94 | 0.94 | < 0.005 | < 0.005 | < 0.005 | 0.95 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.44 | 0.44 | < 0.005 | < 0.005 | < 0.005 | 0.46 |
| Hauling | < 0.005 | < 0.005 | 0.02 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 12.3 | 12.3 | < 0.005 | < 0.005 | 0.01 | 12.9 |

## 3.9. Building Construction (2025) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.15 | 0.96 | 8.84 | 11.7 | 0.02 | 0.37 | — | 0.37 | 0.34 | — | 0.34 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 2993 |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.20 | 0.17 | 1.54 | 2.03 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 342 | 342 | 0.01 | < 0.005 | — | 343 |
| Onsite truck | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | — | 0.93 | 0.93 | < 0.005 | < 0.005 | < 0.005 | 0.97 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.28 | 0.37 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 56.6 | 56.6 | < 0.005 | < 0.005 | — | 56.8 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.15 | 0.15 | < 0.005 | < 0.005 | < 0.005 | 0.16 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.24 | 0.22 | 0.16 | 1.76 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 314 | 314 | 0.01 | 0.02 | 0.03 | 319 |
| Vendor | 0.02 | 0.01 | 0.39 | 0.17 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 228 | 228 | 0.01 | 0.03 | 0.02 | 238 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.03 | 0.31 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 56.6 | 56.6 | < 0.005 | < 0.005 | 0.10 | 57.5 |
| Vendor | < 0.005 | < 0.005 | 0.07 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 39.7 | 39.7 | < 0.005 | 0.01 | 0.04 | 41.5 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | < 0.005 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 9.37 | 9.37 | < 0.005 | < 0.005 | 0.02 | 9.53 |
| Vendor | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 6.57 | 6.57 | < 0.005 | < 0.005 | 0.01 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

AGENDA ITEM NO. 17.

## 3.10. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.15 | 0.96 | 8.84 | 11.7 | 0.02 | 0.12 | — | 0.12 | 0.11 | — | 0.11 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.20 | 0.17 | 1.54 | 2.03 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 342 | 342 | 0.01 | < 0.005 | — | 343 |
| Onsite truck | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | — | 0.93 | 0.93 | < 0.005 | < 0.005 | < 0.005 | 0.97 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.28 | 0.37 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 56.6 | 56.6 | < 0.005 | < 0.005 | — | 56.8 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.15 | 0.15 | < 0.005 | < 0.005 | < 0.005 | 0.16 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | 0.24 | 0.22 | 0.16 | 1.76 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 314 | 314 | 0.01 | 0.02 | 0.03 | 319 |
| Vendor | 0.02 | 0.01 | 0.39 | 0.17 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 228 | 228 | 0.01 | 0.03 | 0.02 | 238 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.03 | 0.31 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 56.6 | 56.6 | < 0.005 | < 0.005 | 0.10 | 57.5 |
| Vendor | < 0.005 | < 0.005 | 0.07 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 39.7 | 39.7 | < 0.005 | 0.01 | 0.04 | 41.5 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | < 0.005 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 9.37 | 9.37 | < 0.005 | < 0.005 | 0.02 | 9.53 |
| Vendor | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 6.57 | 6.57 | < 0.005 | < 0.005 | 0.01 | 6.87 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.11. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.09 | 0.91 | 8.35 | 11.6 | 0.02 | 0.32 | — | 0.32 | 0.29 | — | 0.29 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.18 | 5.18 | < 0.005 | < 0.005 | < 0.005 | 5.45 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.09 | 0.91 | 8.35 | 11.6 | 0.02 | 0.32 | — | 0.32 | 0.29 | — | 0.29 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |

2996

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.27 | 5.27 | < 0.005 | < 0.005 | < 0.005 | 5.53 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.78 | 0.65 | 5.96 | 8.30 | 0.01 | 0.23 | — | 0.23 | 0.21 | — | 0.21 | — | 1,403 | 1,403 | 0.06 | 0.01 | — | 1,408 |
| Onsite truck | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.12 | 0.12 | < 0.005 | 0.01 | 0.01 | — | 3.73 | 3.73 | < 0.005 | < 0.005 | < 0.005 | 3.91 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 0.12 | 1.09 | 1.51 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 232 | 232 | 0.01 | < 0.005 | — | 233 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 0.62 | 0.62 | < 0.005 | < 0.005 | < 0.005 | 0.65 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.25 | 0.23 | 0.12 | 2.00 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 346 | 346 | 0.01 | 0.02 | 1.20 | 352 |
| Vendor | 0.02 | 0.01 | 0.35 | 0.16 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 224 | 224 | 0.01 | 0.03 | 0.52 | 234 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.21 | 0.21 | 0.15 | 1.62 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 307 | 307 | 0.01 | 0.02 | 0.03 | 312 |
| Vendor | 0.02 | 0.01 | 0.38 | 0.17 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 224 | 224 | 0.01 | 0.03 | 0.01 | 234 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.16 | 0.15 | 0.09 | 1.18 | 0.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.05 | 0.05 | — | 227 | 227 | 0.01 | 0.01 | 0.37 | 231 |
| Vendor | 0.01 | 0.01 | 0.26 | 0.12 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01 | 0.01 | — | 160 | 160 | < 0.005 | 0.02 | 0.16 | 167 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

2997

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | 0.03 | 0.03 | 0.02 | 0.21 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.01 | 0.01 | — | 37.6 | 37.6 | < 0.005 | < 0.005 | 0.06 | 38.3 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 26.5 | 26.5 | < 0.005 | < 0.005 | 0.03 | 27.7 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.12. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.09 | 0.91 | 8.35 | 11.6 | 0.02 | 0.10 | — | 0.10 | 0.10 | — | 0.10 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.18 | 5.18 | < 0.005 | < 0.005 | < 0.005 | 5.45 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.09 | 0.91 | 8.35 | 11.6 | 0.02 | 0.10 | — | 0.10 | 0.10 | — | 0.10 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.27 | 5.27 | < 0.005 | < 0.005 | < 0.005 | 5.53 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.78 | 0.65 | 5.96 | 8.30 | 0.01 | 0.07 | — | 0.07 | 0.07 | — | 0.07 | — | 1,403 | 1,403 | 0.06 | 0.01 | — | 1,408 |
| Onsite truck | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.12 | 0.12 | < 0.005 | 0.01 | 0.01 | — | 3.73 | 3.73 | < 0.005 | < 0.005 | < 0.005 | 3.91 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 0.12 | 1.09 | 1.51 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 232 | 232 | 0.01 | < 0.005 | — | 233 |

2998

AGENDA ITEM NO. 17.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 0.62 | 0.62 | < 0.005 | < 0.005 | < 0.005 | 0.65 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.25 | 0.23 | 0.12 | 2.00 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 346 | 346 | 0.01 | 0.02 | 1.20 | 352 |
| Vendor | 0.02 | 0.01 | 0.35 | 0.16 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 224 | 224 | 0.01 | 0.03 | 0.52 | 234 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.21 | 0.21 | 0.15 | 1.62 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 307 | 307 | 0.01 | 0.02 | 0.03 | 312 |
| Vendor | 0.02 | 0.01 | 0.38 | 0.17 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 224 | 224 | 0.01 | 0.03 | 0.01 | 234 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.16 | 0.15 | 0.09 | 1.18 | 0.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.05 | 0.05 | — | 227 | 227 | 0.01 | 0.01 | 0.37 | 231 |
| Vendor | 0.01 | 0.01 | 0.26 | 0.12 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01 | 0.01 | — | 160 | 160 | < 0.005 | 0.02 | 0.16 | 167 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.02 | 0.21 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.01 | 0.01 | — | 37.6 | 37.6 | < 0.005 | < 0.005 | 0.06 | 38.3 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 26.5 | 26.5 | < 0.005 | < 0.005 | 0.03 | 27.7 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.13. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.04 | 0.87 | 7.96 | 11.6 | 0.02 | 0.28 | — | 0.28 | 0.26 | — | 0.26 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.07 | 5.07 | < 0.005 | < 0.005 | < 0.005 | 5.32 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.04 | 0.87 | 7.96 | 11.6 | 0.02 | 0.28 | — | 0.28 | 0.26 | — | 0.26 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.16 | 5.16 | < 0.005 | < 0.005 | < 0.005 | 5.42 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.74 | 0.62 | 5.68 | 8.29 | 0.01 | 0.20 | — | 0.20 | 0.18 | — | 0.18 | — | 1,403 | 1,403 | 0.06 | 0.01 | — | 1,408 |
| Onsite truck | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.12 | 0.12 | < 0.005 | 0.01 | 0.01 | — | 3.65 | 3.65 | < 0.005 | < 0.005 | < 0.005 | 3.83 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 0.11 | 1.04 | 1.51 | < 0.005 | 0.04 | — | 0.04 | 0.03 | — | 0.03 | — | 232 | 232 | 0.01 | < 0.005 | — | 233 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 0.60 | 0.60 | < 0.005 | < 0.005 | < 0.005 | 0.63 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.22 | 0.22 | 0.11 | 1.85 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 339 | 339 | 0.01 | 0.01 | 1.09 | 344 |
| Vendor | 0.02 | 0.01 | 0.34 | 0.15 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 219 | 219 | 0.01 | 0.03 | 0.46 | 229 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

AGENDA ITEM NO. 17.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.20 | 0.18 | 0.13 | 1.50 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 301 | 301 | 0.01 | 0.02 | 0.03 | 306 |
| Vendor | 0.02 | 0.01 | 0.37 | 0.16 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 219 | 219 | 0.01 | 0.03 | 0.01 | 229 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.14 | 0.14 | 0.09 | 1.08 | 0.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.05 | 0.05 | — | 223 | 223 | 0.01 | 0.01 | 0.33 | 226 |
| Vendor | 0.01 | 0.01 | 0.25 | 0.11 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01 | 0.01 | — | 156 | 156 | < 0.005 | 0.02 | 0.14 | 163 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.02 | 0.20 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.01 | 0.01 | — | 36.9 | 36.9 | < 0.005 | < 0.005 | 0.06 | 37.5 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 25.9 | 25.9 | < 0.005 | < 0.005 | 0.02 | 27.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.14. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.04 | 0.87 | 7.96 | 11.6 | 0.02 | 0.09 | — | 0.09 | 0.09 | — | 0.09 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.07 | 5.07 | < 0.005 | < 0.005 | < 0.005 | 5.32 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 1.04 | 0.87 | 7.96 | 11.6 | 0.02 | 0.09 | — | 0.09 | 0.09 | — | 0.09 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.16 | 5.16 | < 0.005 | < 0.005 | < 0.005 | 5.42 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.74 | 0.62 | 5.68 | 8.29 | 0.01 | 0.07 | — | 0.07 | 0.06 | — | 0.06 | — | 1,403 | 1,403 | 0.06 | 0.01 | — | 1,408 |
| Onsite truck | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.12 | 0.12 | < 0.005 | 0.01 | 0.01 | — | 3.65 | 3.65 | < 0.005 | < 0.005 | < 0.005 | 3.83 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 0.11 | 1.04 | 1.51 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 232 | 232 | 0.01 | < 0.005 | — | 233 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 0.60 | 0.60 | < 0.005 | < 0.005 | < 0.005 | 0.63 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.22 | 0.22 | 0.11 | 1.85 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 339 | 339 | 0.01 | 0.01 | 1.09 | 344 |
| Vendor | 0.02 | 0.01 | 0.34 | 0.15 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 219 | 219 | 0.01 | 0.03 | 0.46 | 229 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.20 | 0.18 | 0.13 | 1.50 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 301 | 301 | 0.01 | 0.02 | 0.03 | 306 |
| Vendor | 0.02 | 0.01 | 0.37 | 0.16 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 219 | 219 | 0.01 | 0.03 | 0.01 | 229 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.14 | 0.14 | 0.09 | 1.08 | 0.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.05 | 0.05 | — | 223 | 223 | 0.01 | 0.01 | 0.33 | 226 |
| Vendor | 0.01 | 0.01 | 0.25 | 0.11 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01 | 0.01 | — | 156 | 156 | < 0.005 | 0.02 | 0.14 | 3002 |

AGENDA ITEM NO. 17.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.02 | 0.20 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.01 | 0.01 | — | 36.9 | 36.9 | < 0.005 | < 0.005 | 0.06 | 37.5 |
| Vendor | < 0.005 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 25.9 | 25.9 | < 0.005 | < 0.005 | 0.02 | 27.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.15. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.00 | 0.84 | 7.61 | 11.6 | 0.02 | 0.25 | — | 0.25 | 0.23 | — | 0.23 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.05 | 5.05 | < 0.005 | < 0.005 | < 0.005 | 5.31 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.31 | 0.48 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 80.7 | 80.7 | < 0.005 | < 0.005 | — | 81.0 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.21 | 0.21 | < 0.005 | < 0.005 | < 0.005 | 0.22 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.06 | 0.09 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 13.4 | 13.4 | < 0.005 | < 0.005 | — | 13.4 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | 0.04 |

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AGENDA ITEM NO. 17.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.19 | 0.18 | 0.12 | 1.39 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 295 | 295 | 0.01 | 0.02 | 0.03 | 300 |
| Vendor | 0.02 | 0.01 | 0.35 | 0.16 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 214 | 214 | 0.01 | 0.03 | 0.01 | 224 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | < 0.005 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 12.6 | 12.6 | < 0.005 | < 0.005 | 0.02 | 12.8 |
| Vendor | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 8.78 | 8.78 | < 0.005 | < 0.005 | 0.01 | 9.18 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.08 | 2.08 | < 0.005 | < 0.005 | < 0.005 | 2.11 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.45 | 1.45 | < 0.005 | < 0.005 | < 0.005 | 1.52 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.16. Building Construction (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

3004

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 1.00 | 0.84 | 7.61 | 11.6 | 0.02 | 0.08 | — | 0.08 | 0.08 | — | 0.08 | — | 1,964 | 1,964 | 0.08 | 0.02 | — | 1,971 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.05 | 5.05 | < 0.005 | < 0.005 | < 0.005 | 5.31 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.31 | 0.48 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 80.7 | 80.7 | < 0.005 | < 0.005 | — | 81.0 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.21 | 0.21 | < 0.005 | < 0.005 | < 0.005 | 0.22 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.06 | 0.09 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 13.4 | 13.4 | < 0.005 | < 0.005 | — | 13.4 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | 0.04 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.19 | 0.18 | 0.12 | 1.39 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 295 | 295 | 0.01 | 0.02 | 0.03 | 300 |
| Vendor | 0.02 | 0.01 | 0.35 | 0.16 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 214 | 214 | 0.01 | 0.03 | 0.01 | 224 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | < 0.005 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 12.6 | 12.6 | < 0.005 | < 0.005 | 0.02 | 12.8 |
| Vendor | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 8.78 | 8.78 | < 0.005 | < 0.005 | 0.01 | 9.18 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.08 | 2.08 | < 0.005 | < 0.005 | < 0.005 | 3005 |

AGENDA ITEM NO. 17.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.45 | 1.45 | < 0.005 | < 0.005 | < 0.005 | 1.52 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.17. Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.95 | 0.80 | 7.45 | 9.98 | 0.01 | 0.35 | — | 0.35 | 0.32 | — | 0.32 | — | 1,511 | 1,511 | 0.06 | 0.01 | — | 1,517 |
| Paving | — | 0.66 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 0.04 | 0.41 | 0.55 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 82.8 | 82.8 | < 0.005 | < 0.005 | — | 83.1 |
| Paving | — | 0.04 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.29 | 0.29 | < 0.005 | < 0.005 | < 0.005 | 0.31 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.07 | 0.10 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 13.7 | 13.7 | < 0.005 | < 0.005 | — | 13.8 |
| Paving | — | 0.01 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.05 | 0.05 | < 0.005 | < 0.005 | < 0.005 | 0.05 |

3006

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.06 | 0.04 | 0.45 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 80.7 | 80.7 | < 0.005 | < 0.005 | 0.01 | 82.0 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.7 | 52.7 | < 0.005 | 0.01 | < 0.005 | 55.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.58 | 4.58 | < 0.005 | < 0.005 | 0.01 | 4.66 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.89 | 2.89 | < 0.005 | < 0.005 | < 0.005 | 3.02 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.76 | 0.76 | < 0.005 | < 0.005 | < 0.005 | 0.77 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.48 | 0.48 | < 0.005 | < 0.005 | < 0.005 | 0.50 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.18. Paving (2025) - Mitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

3007

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.95 | 0.80 | 7.45 | 9.98 | 0.01 | 0.12 | — | 0.12 | 0.11 | — | 0.11 | — | 1,511 | 1,511 | 0.06 | 0.01 | — | 1,517 |
| Paving | — | 0.66 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 0.04 | 0.41 | 0.55 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 82.8 | 82.8 | < 0.005 | < 0.005 | — | 83.1 |
| Paving | — | 0.04 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.29 | 0.29 | < 0.005 | < 0.005 | < 0.005 | 0.31 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.07 | 0.10 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 13.7 | 13.7 | < 0.005 | < 0.005 | — | 13.8 |
| Paving | — | 0.01 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.05 | 0.05 | < 0.005 | < 0.005 | < 0.005 | 0.05 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.06 | 0.04 | 0.45 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 80.7 | 80.7 | < 0.005 | < 0.005 | 0.01 | 82.0 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.7 | 52.7 | < 0.005 | 0.01 | < 0.005 | 55.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.58 | 4.58 | < 0.005 | < 0.005 | 0.01 | 4.66 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.89 | 2.89 | < 0.005 | < 0.005 | < 0.005 | 3008 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.76 | 0.76 | < 0.005 | < 0.005 | < 0.005 | 0.77 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.48 | 0.48 | < 0.005 | < 0.005 | < 0.005 | 0.50 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.19. Architectural Coating (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.13 | 0.11 | 0.81 | 1.12 | < 0.005 | 0.02 | — | 0.02 | 0.01 | — | 0.01 | — | 134 | 134 | 0.01 | < 0.005 | — | 134 |
| Architectural Coatings | — | 102 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.05 | 0.04 | < 0.005 | < 0.005 | 0.28 | 0.28 | < 0.005 | 0.03 | 0.03 | — | 7.58 | 7.58 | < 0.005 | < 0.005 | < 0.005 | 7.97 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.04 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 7.32 | 7.32 | < 0.005 | < 0.005 | — | 7.34 |
| Architectural Coatings | — | 5.61 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.41 | 0.41 | < 0.005 | < 0.005 | < 0.005 | |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.21 | 1.21 | < 0.005 | < 0.005 | — | 1.22 |
| Architectural Coatings | — | 1.02 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.07 | 0.07 | < 0.005 | < 0.005 | < 0.005 | 0.07 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.02 | 0.28 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.01 | 0.01 | — | 59.1 | 59.1 | < 0.005 | < 0.005 | 0.01 | 60.0 |
| Vendor | < 0.005 | < 0.005 | 0.08 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 49.4 | 49.4 | < 0.005 | 0.01 | < 0.005 | 51.6 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.35 | 3.35 | < 0.005 | < 0.005 | < 0.005 | 3.40 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.70 | 2.70 | < 0.005 | < 0.005 | < 0.005 | 2.83 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.55 | 0.55 | < 0.005 | < 0.005 | < 0.005 | 0.56 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.45 | 0.45 | < 0.005 | < 0.005 | < 0.005 | 0.47 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.20. Architectural Coating (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

3010

AGENDA ITEM NO. 17.

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.13 | 0.11 | 0.81 | 1.12 | < 0.005 | 0.02 | — | 0.02 | 0.01 | — | 0.01 | — | 134 | 134 | 0.01 | < 0.005 | — | 134 |
| Architectural Coatings | — | 102 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.05 | 0.04 | < 0.005 | < 0.005 | 0.28 | 0.28 | < 0.005 | 0.03 | 0.03 | — | 7.58 | 7.58 | < 0.005 | < 0.005 | < 0.005 | 7.97 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.04 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 7.32 | 7.32 | < 0.005 | < 0.005 | — | 7.34 |
| Architectural Coatings | — | 5.61 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.41 | 0.41 | < 0.005 | < 0.005 | < 0.005 | 0.43 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.21 | 1.21 | < 0.005 | < 0.005 | — | 1.22 |
| Architectural Coatings | — | 1.02 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.07 | 0.07 | < 0.005 | < 0.005 | < 0.005 | 0.07 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

3011

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.02 | 0.28 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.01 | 0.01 | — | 59.1 | 59.1 | < 0.005 | < 0.005 | 0.01 | 60.0 |
| Vendor | < 0.005 | < 0.005 | 0.08 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 49.4 | 49.4 | < 0.005 | 0.01 | < 0.005 | 51.6 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.35 | 3.35 | < 0.005 | < 0.005 | < 0.005 | 3.40 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.70 | 2.70 | < 0.005 | < 0.005 | < 0.005 | 2.83 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.55 | 0.55 | < 0.005 | < 0.005 | < 0.005 | 0.56 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.45 | 0.45 | < 0.005 | < 0.005 | < 0.005 | 0.47 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.21. Utilities (2025) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.63 | 1.37 | 12.6 | 12.8 | 0.02 | 0.54 | — | 0.54 | 0.50 | — | 0.50 | — | 2,166 | 2,166 | 0.09 | 0.02 | — | 2,174 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.29 | 5.29 | < 0.005 | < 0.005 | < 0.005 | 5.55 |

3012

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.63 | 1.37 | 12.6 | 12.8 | 0.02 | 0.54 | — | 0.54 | 0.50 | — | 0.50 | — | 2,166 | 2,166 | 0.09 | 0.02 | — | 2,174 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.71 | 0.60 | 5.51 | 5.60 | 0.01 | 0.24 | — | 0.24 | 0.22 | — | 0.22 | — | 950 | 950 | 0.04 | 0.01 | — | 953 |
| Onsite truck | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | 0.08 | 0.08 | < 0.005 | 0.01 | 0.01 | — | 2.33 | 2.33 | < 0.005 | < 0.005 | < 0.005 | 2.45 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.13 | 0.11 | 1.01 | 1.02 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 157 | 157 | 0.01 | < 0.005 | — | 158 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.39 | 0.39 | < 0.005 | < 0.005 | < 0.005 | 0.41 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.05 | 0.04 | 0.02 | 0.37 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 60.6 | 60.6 | < 0.005 | < 0.005 | 0.23 | 61.7 |
| Vendor | < 0.005 | < 0.005 | 0.08 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.6 | 52.6 | < 0.005 | 0.01 | 0.14 | 55.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.03 | 0.30 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 53.8 | 53.8 | < 0.005 | < 0.005 | 0.01 | 54.6 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.7 | 52.7 | < 0.005 | 0.01 | < 0.005 | 55.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

AGENDA ITEM NO. 17.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | 0.02 | 0.02 | 0.01 | 0.13 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | — | 24.4 | 24.4 | < 0.005 | < 0.005 | 0.04 | 24.8 |
| Vendor | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 23.1 | 23.1 | < 0.005 | < 0.005 | 0.03 | 24.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.04 | 4.04 | < 0.005 | < 0.005 | 0.01 | 4.11 |
| Vendor | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 3.82 | 3.82 | < 0.005 | < 0.005 | < 0.005 | 4.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.22. Utilities (2025) - Mitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.63 | 1.37 | 12.6 | 12.8 | 0.02 | 0.13 | — | 0.13 | 0.12 | — | 0.12 | — | 2,166 | 2,166 | 0.09 | 0.02 | — | 2,174 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.29 | 5.29 | < 0.005 | < 0.005 | < 0.005 | 5.55 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.63 | 1.37 | 12.6 | 12.8 | 0.02 | 0.13 | — | 0.13 | 0.12 | — | 0.12 | — | 2,166 | 2,166 | 0.09 | 0.02 | — | 2,174 |
| Onsite truck | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.02 | 0.02 | — | 5.38 | 5.38 | < 0.005 | < 0.005 | < 0.005 | 5.64 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.71 | 0.60 | 5.51 | 5.60 | 0.01 | 0.06 | — | 0.06 | 0.05 | — | 0.05 | — | 950 | 950 | 0.04 | 0.01 | — | 953 |

3014

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | 0.08 | 0.08 | < 0.005 | 0.01 | 0.01 | — | 2.33 | 2.33 | < 0.005 | < 0.005 | < 0.005 | 2.45 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.13 | 0.11 | 1.01 | 1.02 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 157 | 157 | 0.01 | < 0.005 | — | 158 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.39 | 0.39 | < 0.005 | < 0.005 | < 0.005 | 0.41 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.05 | 0.04 | 0.02 | 0.37 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 60.6 | 60.6 | < 0.005 | < 0.005 | 0.23 | 61.7 |
| Vendor | < 0.005 | < 0.005 | 0.08 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.6 | 52.6 | < 0.005 | 0.01 | 0.14 | 55.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.03 | 0.30 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 53.8 | 53.8 | < 0.005 | < 0.005 | 0.01 | 54.6 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 52.7 | 52.7 | < 0.005 | 0.01 | < 0.005 | 55.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.01 | 0.13 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | — | 24.4 | 24.4 | < 0.005 | < 0.005 | 0.04 | 24.8 |
| Vendor | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 23.1 | 23.1 | < 0.005 | < 0.005 | 0.03 | 24.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.04 | 4.04 | < 0.005 | < 0.005 | 0.01 | 4.11 |
| Vendor | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 3.82 | 3.82 | < 0.005 | < 0.005 | < 0.005 | 4.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

AGENDA ITEM NO. 17.

# 4. Operations Emissions Details

## 4.10. Soil Carbon Accumulation By Vegetation Type

### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

3017

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

3018

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

AGENDA ITEM NO. 17.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequest | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

# 5. Activity Data

## 5.1. Construction Schedule

| Phase Name | Phase Type | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|---|---|---|---|---|---|---|
| Demolition | Demolition | 11/1/2024 | 11/29/2024 | 5.00 | 20.0 | — |
| Site Preparation | Site Preparation | 11/30/2024 | 12/14/2024 | 5.00 | 10.0 | — |
| Grading | Grading | 12/15/2024 | 1/26/2025 | 5.00 | 30.0 | — |
| Building Construction | Building Construction | 10/04/2025 | 1/21/2028 | 5.00 | 600 | — |
| Paving | Paving | 1/27/2025 | 2/21/2025 | 5.00 | 20.0 | — |
| Architectural Coating | Architectural Coating | 1/22/2028 | 2/18/2028 | 5.00 | 20.0 | — |
| Utilities | Trenching | 2/22/2025 | 10/03/2025 | 5.00 | 160 | — |

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AGENDA ITEM NO. 17.

## 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|---|
| Demolition | Rubber Tired Dozers | Diesel | Average | 2.00 | 8.00 | 367 | 0.40 |
| Demolition | Excavators | Diesel | Average | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Concrete/Industrial Saws | Diesel | Average | 1.00 | 8.00 | 33.0 | 0.73 |
| Site Preparation | Rubber Tired Dozers | Diesel | Average | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Average | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Excavators | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Grading | Scrapers | Diesel | Average | 2.00 | 8.00 | 423 | 0.48 |
| Grading | Rubber Tired Dozers | Diesel | Average | 1.00 | 8.00 | 367 | 0.40 |
| Building Construction | Forklifts | Diesel | Average | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Cranes | Diesel | Average | 1.00 | 3.50 | 367 | 0.29 |
| Building Construction | Welders | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Average | 3.00 | 7.00 | 84.0 | 0.37 |
| Paving | Pavers | Diesel | Average | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Average | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |
| Utilities | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Utilities | Trenchers | Diesel | Average | 1.00 | 8.00 | 40.0 | 0.50 |
| Utilities | Rubber Tired Dozers | Diesel | Average | 1.00 | 8.00 | 367 | 0.40 |

### 5.2.2. Mitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|---|
| Demolition | Rubber Tired Dozers | Diesel | Average | 2.00 | 8.00 | 367 | 0.40 |
| Demolition | Excavators | Diesel | Average | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Concrete/Industrial Saws | Diesel | Average | 1.00 | 8.00 | 33.0 | 0.73 |
| Site Preparation | Rubber Tired Dozers | Diesel | Average | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Average | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Excavators | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Grading | Scrapers | Diesel | Average | 2.00 | 8.00 | 423 | 0.48 |
| Grading | Rubber Tired Dozers | Diesel | Average | 1.00 | 8.00 | 367 | 0.40 |
| Building Construction | Forklifts | Diesel | Average | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Cranes | Diesel | Average | 1.00 | 3.50 | 367 | 0.29 |
| Building Construction | Welders | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Average | 3.00 | 7.00 | 84.0 | 0.37 |
| Paving | Pavers | Diesel | Average | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Average | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Utilities | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Utilities | Trenchers | Diesel | Average | 1.00 | 8.00 | 40.0 | 0.50 |
| Utilities | Rubber Tired Dozers | Diesel | Average | 1.00 | 8.00 | 367 | 0.40 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|---|---|---|---|---|
| Demolition | — | — | — | — |
| Demolition | Worker | 15.0 | 7.70 | LDA,LDT1,LDT2 |
| Demolition | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Demolition | Hauling | 0.95 | 20.0 | HHDT |
| Demolition | Onsite truck | 2.00 | 0.25 | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 17.5 | 7.70 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | 2.00 | 0.25 | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 20.0 | 7.70 | LDA,LDT1,LDT2 |
| Grading | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Grading | Hauling | 20.8 | 20.0 | HHDT |
| Grading | Onsite truck | 2.00 | 0.25 | HHDT |
| Building Construction | — | — | — | — |
| Building Construction | Worker | 58.3 | 7.70 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 17.3 | 4.00 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |

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AGENDA ITEM NO. 17.

| | | | | |
|---|---|---|---|---|
| Building Construction | Onsite truck | 2.00 | 0.25 | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 15.0 | 7.70 | LDA,LDT1,LDT2 |
| Paving | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | 2.00 | 0.25 | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 11.7 | 7.70 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | 3.00 | 0.25 | HHDT |
| Utilities | — | — | — | — |
| Utilities | Worker | 10.0 | 7.70 | LDA,LDT1,LDT2 |
| Utilities | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Utilities | Hauling | 0.00 | 20.0 | HHDT |
| Utilities | Onsite truck | 2.00 | 0.25 | HHDT |

### 5.3.2. Mitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|---|---|---|---|---|
| Demolition | — | — | — | — |
| Demolition | Worker | 15.0 | 7.70 | LDA,LDT1,LDT2 |
| Demolition | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Demolition | Hauling | 0.95 | 20.0 | HHDT |
| Demolition | Onsite truck | 2.00 | 0.25 | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 17.5 | 7.70 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | 4.00 | 4.00 | HHDT,MHDT |

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| | | | | |
|---|---|---|---|---|
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | 2.00 | 0.25 | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 20.0 | 7.70 | LDA,LDT1,LDT2 |
| Grading | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Grading | Hauling | 20.8 | 20.0 | HHDT |
| Grading | Onsite truck | 2.00 | 0.25 | HHDT |
| Building Construction | — | — | — | — |
| Building Construction | Worker | 58.3 | 7.70 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 17.3 | 4.00 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | 2.00 | 0.25 | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 15.0 | 7.70 | LDA,LDT1,LDT2 |
| Paving | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | 2.00 | 0.25 | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 11.7 | 7.70 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | 3.00 | 0.25 | HHDT |
| Utilities | — | — | — | — |
| Utilities | Worker | 10.0 | 7.70 | LDA,LDT1,LDT2 |
| Utilities | Vendor | 4.00 | 4.00 | HHDT,MHDT |
| Utilities | Hauling | 0.00 | 20.0 | HHDT |
| Utilities | Onsite truck | 2.00 | 0.25 | HHDT |

AGENDA ITEM NO. 17.

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

| Control Strategies Applied | PM10 Reduction | PM2.5 Reduction |
|---|---|---|
| Water unpaved roads twice daily | 55% | 55% |
| Limit vehicle speeds on unpaved roads to 25 mph | 44% | 44% |

## 5.5. Architectural Coatings

| Phase Name | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|---|---|---|---|---|---|
| Architectural Coating | 639,698 | 213,233 | 0.00 | 0.00 | 15,146 |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (Building Square Footage) | Acres Paved (acres) |
|---|---|---|---|---|---|
| Demolition | 0.00 | 0.00 | 0.00 | 1,650 | — |
| Site Preparation | — | — | 15.0 | 0.00 | — |
| Grading | 2,500 | 2,500 | 90.0 | 0.00 | — |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 7.58 |

### 5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|---|---|---|---|
| Water Exposed Area | 2 | 61% | 61% |
| Water Demolished Area | 2 | 36% | 36% |

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AGENDA ITEM NO. 17.

## 5.7. Construction Paving

| Land Use | Area Paved (acres) | % Asphalt |
|---|---|---|
| Single Family Housing | 1.79 | 0% |
| City Park | 0.00 | 0% |
| Other Asphalt Surfaces | 5.07 | 100% |
| Other Non-Asphalt Surfaces | 0.73 | 0% |

## 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4 | N2O |
|---|---|---|---|---|
| 2024 | 0.00 | 204 | 0.03 | < 0.005 |
| 2025 | 0.00 | 204 | 0.03 | < 0.005 |
| 2026 | 0.00 | 204 | 0.03 | < 0.005 |
| 2027 | 0.00 | 204 | 0.03 | < 0.005 |
| 2028 | 0.00 | 204 | 0.03 | < 0.005 |

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|---|---|---|---|

#### 5.18.1.2. Mitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|---|---|---|---|

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AGENDA ITEM NO. 17.

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|---|---|---|

#### 5.18.1.2. Mitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|---|---|---|

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|---|---|---|---|

#### 5.18.2.2. Mitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|---|---|---|---|

## 8. User Changes to Default Data

| Screen | Justification |
|---|---|
| Land Use | Land uses based on the project site plan. 162 single-family residential homes and 2 parks on approximately 14.57 gross acres. Acreage for homes based on lot sizes. |
| Construction: Construction Phases | Lot development to occur prior to building construction.<br>Construction to start as early as November 2024 and last until 2028. Utilities phase added and building construction phase doubled to reflect applicant-provided construction schedule. |
| Operations: Vehicle Data | Trip rates for single-family housing from the ITE Trip Generation Rates, 11th Edition.<br>ITE Land Use Code 210 (Single-family detached housing)<br>The parks will serve as amenities for the subdivision. |
| Operations: Fleet Mix | SJVAPCD-approved residential fleet mix for the 2025 operational year applied to single-fam[illegible]es. |

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| | |
|---|---|
| Operations: Hearths | SJVAPCD Rule 4901 Woodburning No woodburning fireplaces or wood stoves |
| Construction: Off-Road Equipment | Equipment added to the utilities phase. Crane usage adjusted to retain default HP hours, as the duration for the building construction phase was doubled. |

# ATTACHMENT B

## Construction Health Risk Assessment and Operational Health Risk Screening

# Construction Health Risk Assessment and Operational Health Risk Screening

## Table of Contents

**Construction Health Risk Assessment**

- **General Parameters**
- **Unmitigated Construction**
- **Mitigated Construction – Tier 4 Scenario**
- **Mitigated Construction – Level 3 Filters Scenario**

**Operational Health Risk Screening**

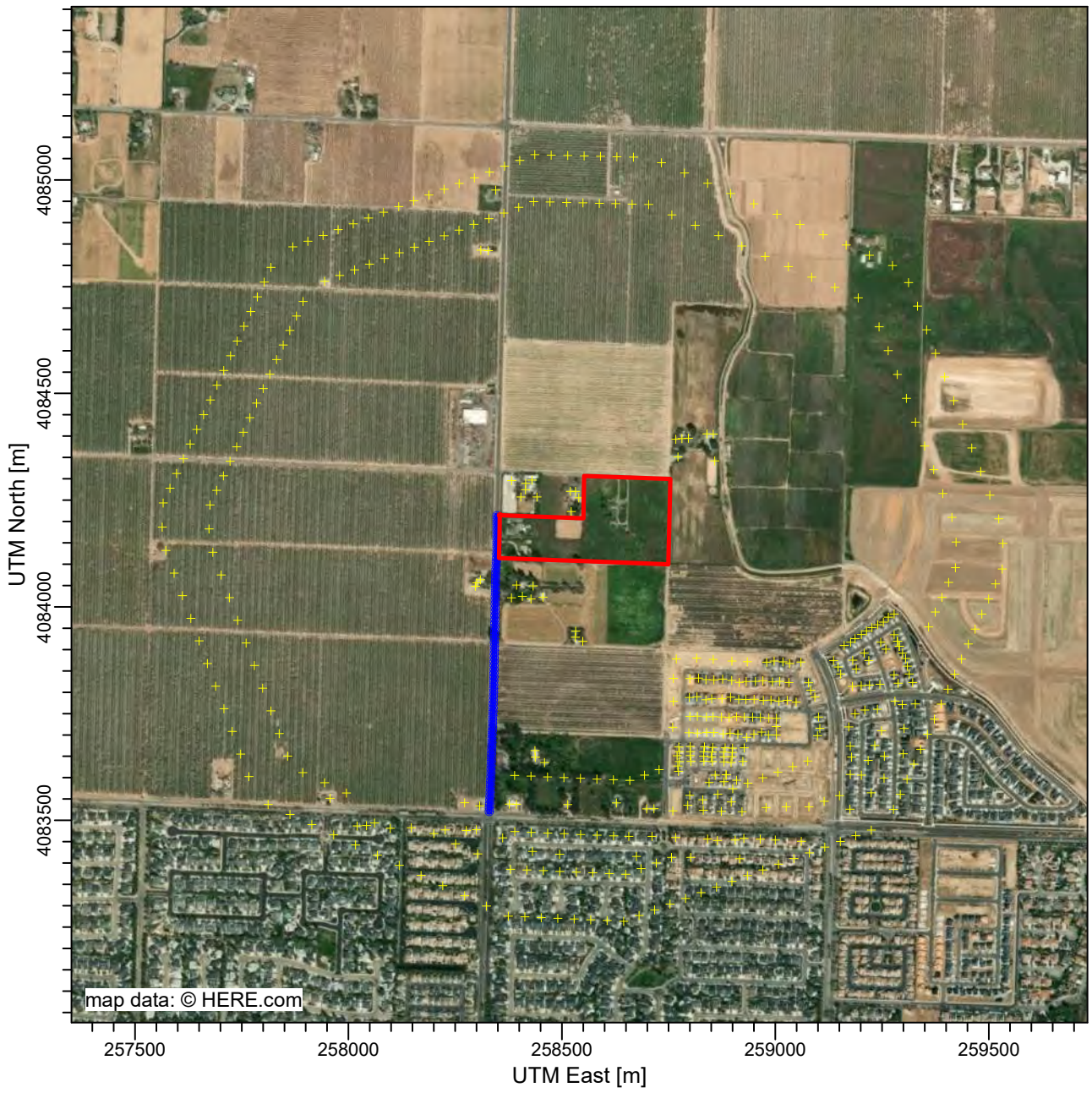
- **Prioritization Tool**
- **Operational Screening Calculations**

# Health Risk Assessment

## General Parameters

PROJECT TITLE:

**Graphical Representation of AERMOD Inputs (Construction)**



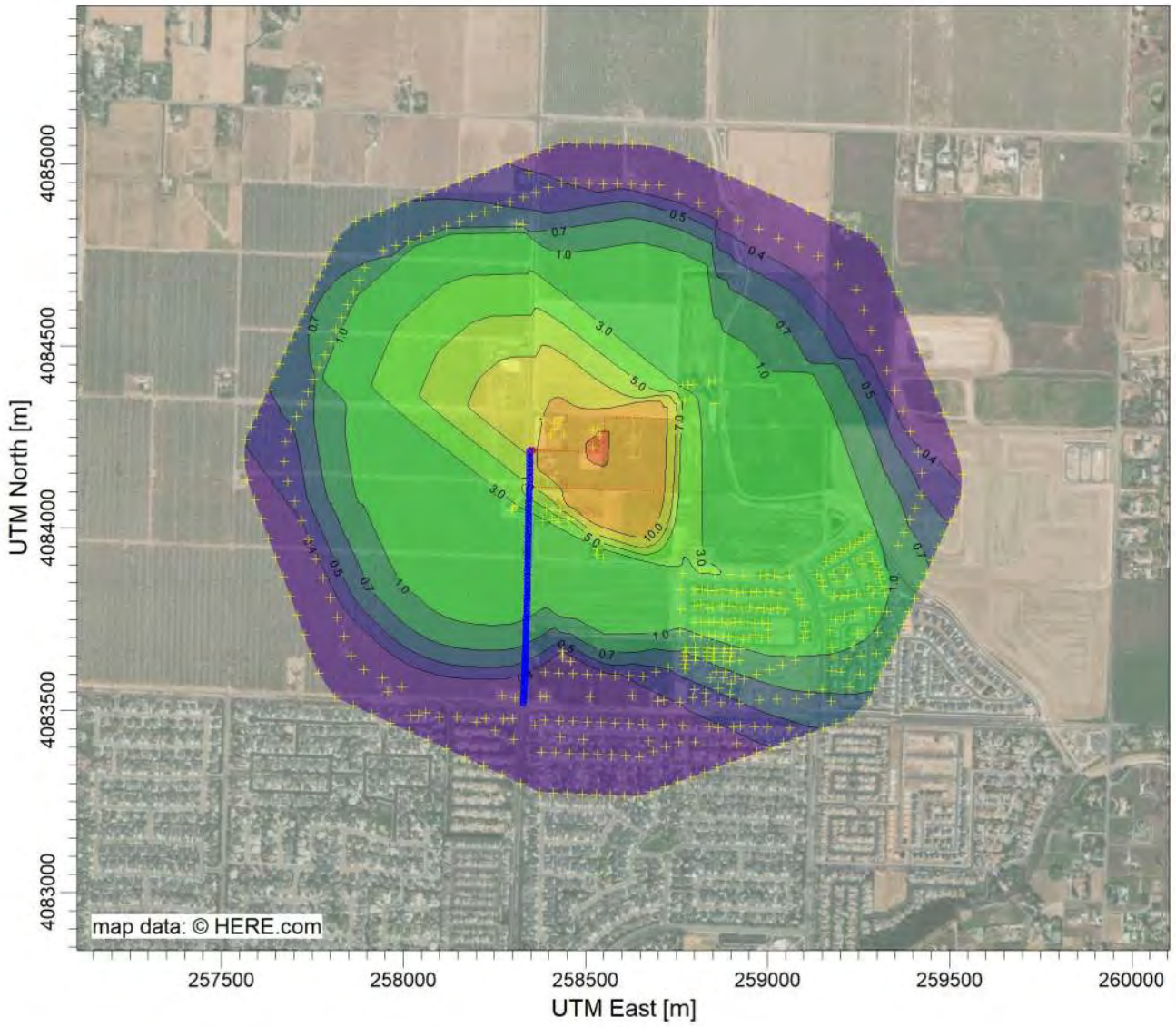

| | | | |
|---|---|---|---|
| COMMENTS: | SOURCES: **2** | COMPANY NAME: | |
| | RECEPTORS: **481** | MODELER: | |
| | | SCALE: 1:14,961 0 0.5 km | |
| | | DATE: **12/25/2023** | PROJECT NO.: |

AERMOD View - Lakes Environmental Software

D:\Move\0029-0004\Construction\Construction.is

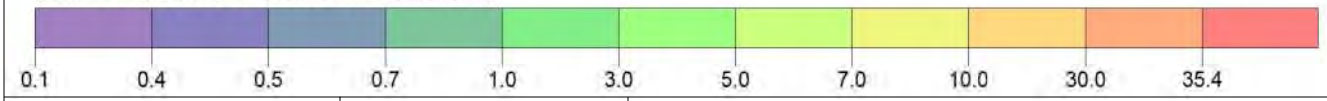
PROJECT TITLE:

**Air Dispersion Concentration Trend (Unit Emissions)**




PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 5 YEARS FOR SOURCE GROUP: AREA ug/m^3

Max: 35.4 [ug/m^3] at (258521.86, 4084223.21)




| COMMENTS: | SOURCES: **2** | COMPANY NAME: | |
|---|---|---|---|
| | RECEPTORS: **481** | MODELER: | |
| | OUTPUT TYPE: **Concentration** | SCALE: 1:18,864 0 0.5 km | |
| | MAX: **35.4 ug/m^3** | DATE: **12/25/2023** | PROJECT NO.: |

AERMOD View - Lakes Environmental Software

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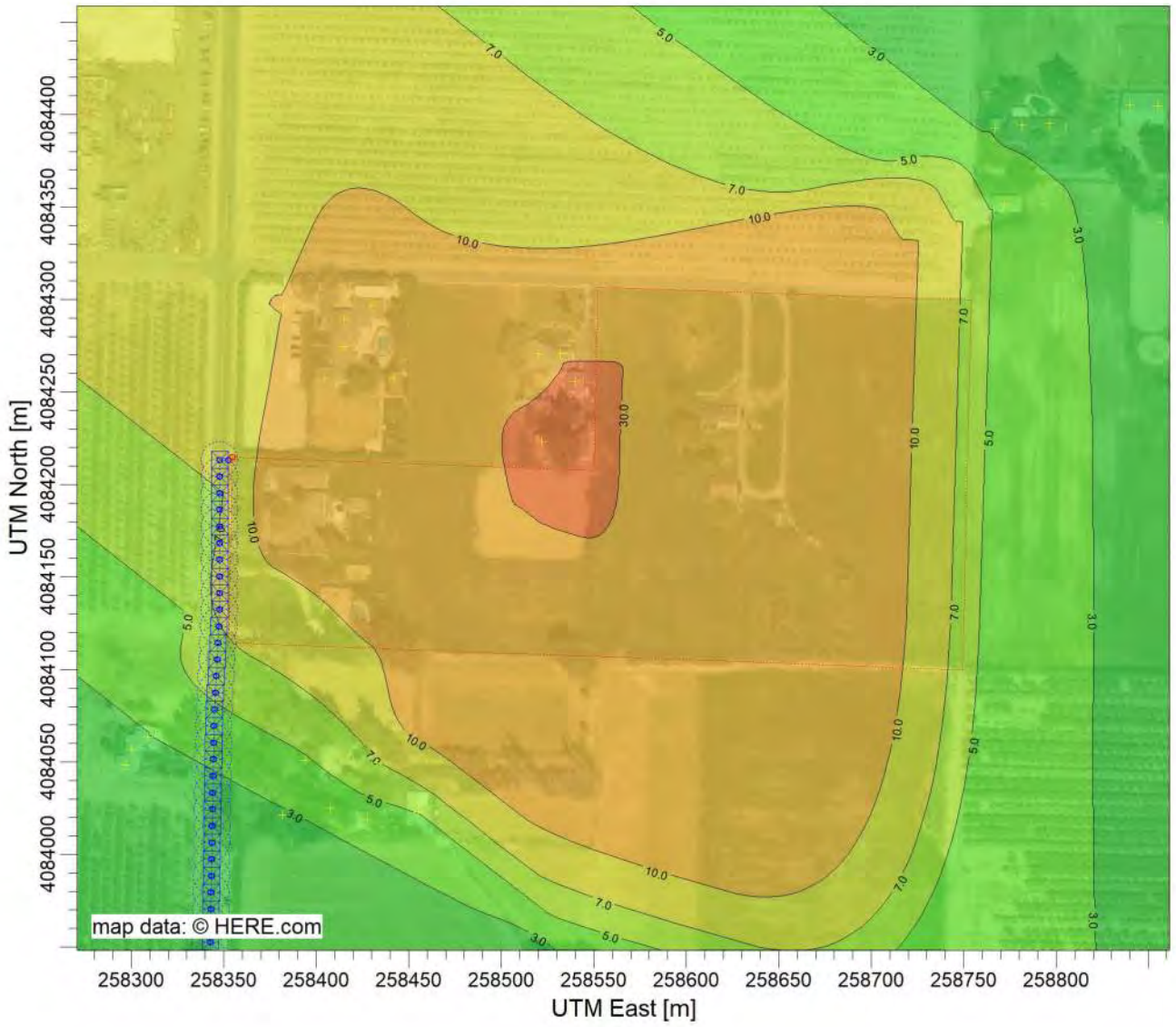
3034

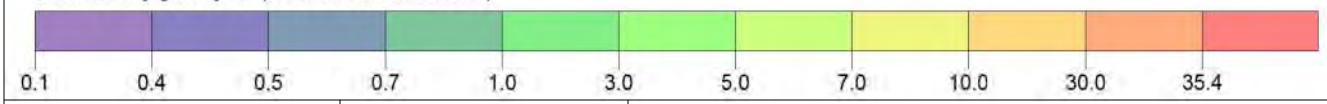
PROJECT TITLE:

**Air Dispersion Concentration Trend (Unit Emissions)**
**Zoomed In Near the Project Site**




PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 5 YEARS FOR SOURCE GROUP: AREA ug/m^3

Max: 35.4 [ug/m^3] at (258521.86, 4084223.21)




| | | | |
|---|---|---|---|
| COMMENTS: | SOURCES: **2** | COMPANY NAME: | |
| | RECEPTORS: **481** | MODELER: | |
| | OUTPUT TYPE: **Concentration** | SCALE: 1:3,714 0 0.1 km | |
| | MAX: **35.4 ug/m^3** | DATE: **12/25/2023** | PROJECT NO.: |

AERMOD View - Lakes Environmental Software

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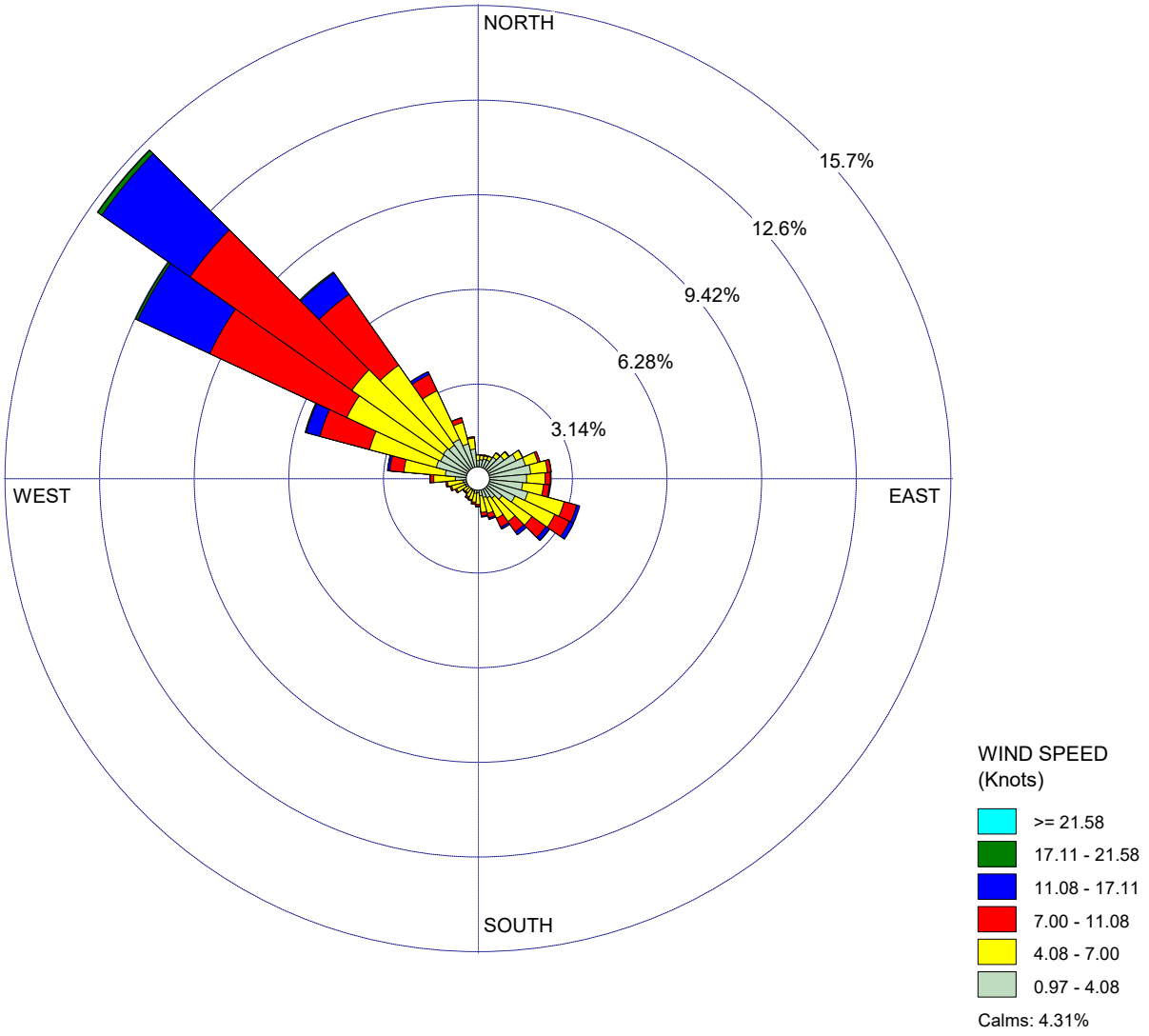
WIND ROSE PLOT:

**Wind Rose - Fresno Station (#93193) – Blowing From**

DISPLAY:

**Wind Speed**
**Direction (blowing from)**




| | | | |
|---|---|---|---|
| COMMENTS: | DATA PERIOD:<br>**Start Date: 1/1/2013 - 00:00**<br>**End Date: 12/31/2017 - 23:59** | COMPANY NAME: | |
| | | MODELER: | |
| | CALM WINDS:<br>**4.31%** | TOTAL COUNT:<br>**43534 hrs.** | |
| | AVG. WIND SPEED:<br>**5.73 Knots** | DATE:<br>**5/14/2023** | PROJECT NO.: |

WRPLOT View - Lakes Environmental Software

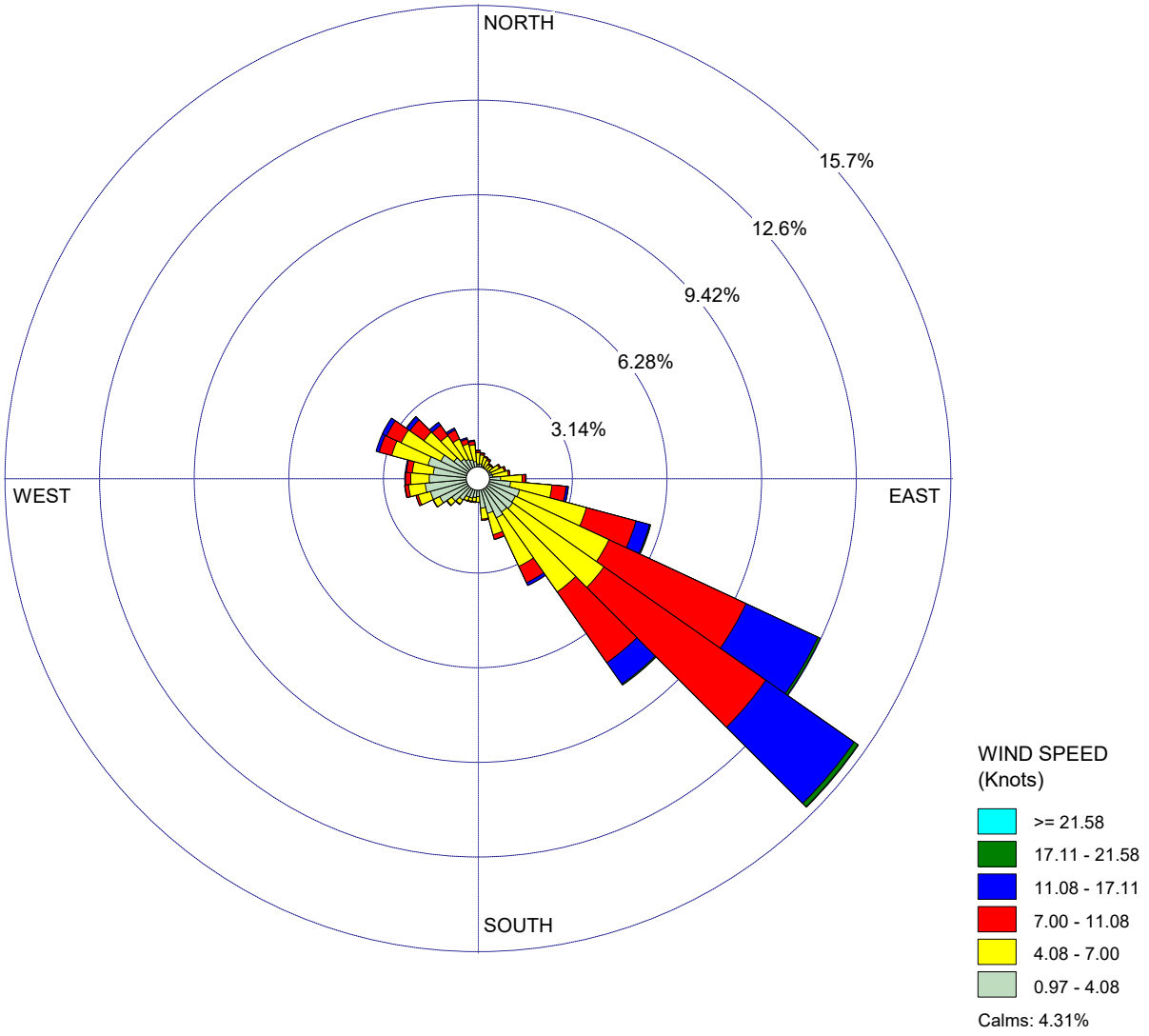
3036

WIND ROSE PLOT:

**Wind Rose - Fresno Station (#93193) – Blowing To**

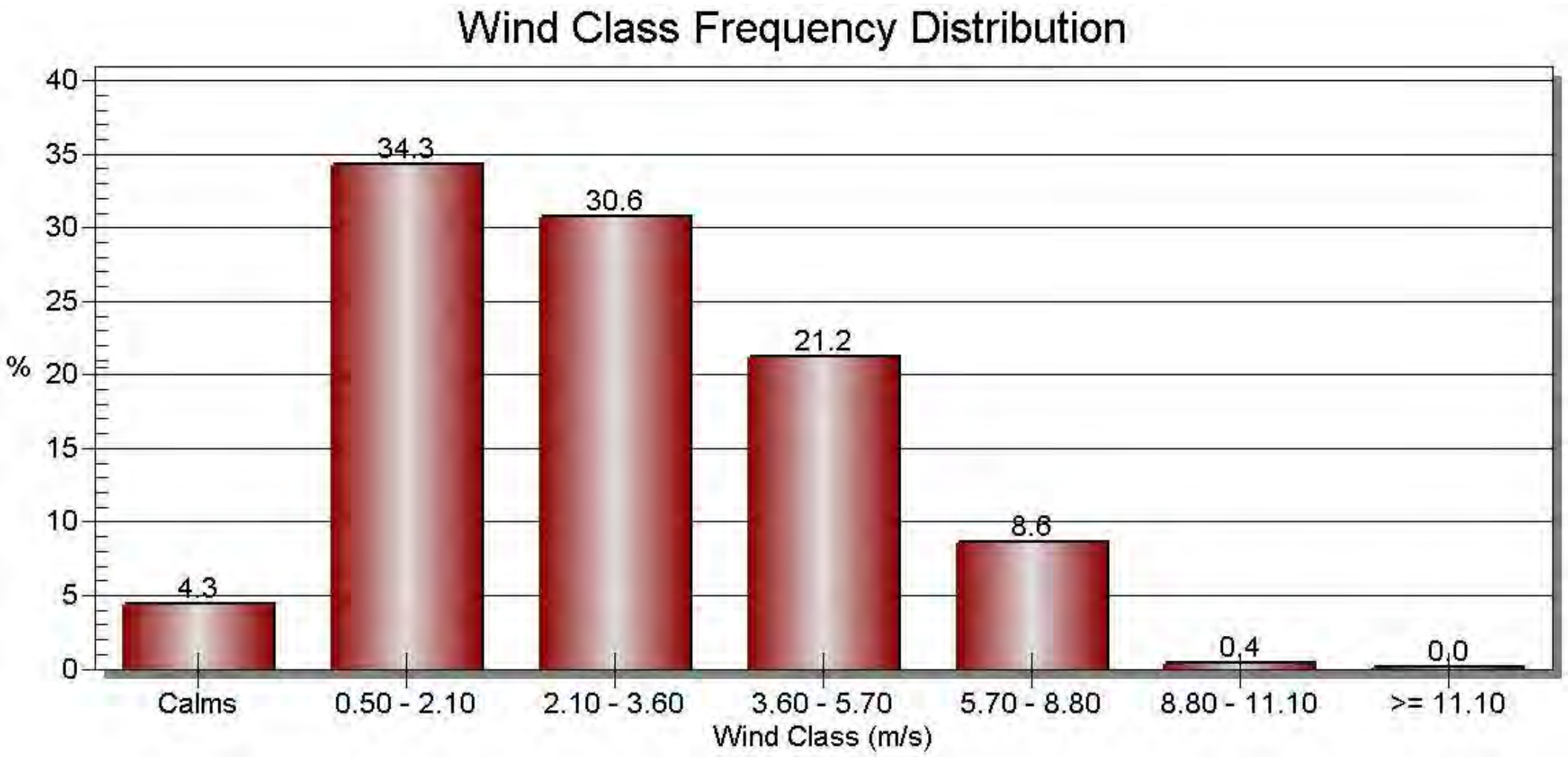
DISPLAY:

**Wind Speed**
**Flow Vector (blowing to)**




| | | | |
|---|---|---|---|
| COMMENTS: | DATA PERIOD:<br>**Start Date: 1/1/2013 - 00:00**<br>**End Date: 12/31/2017 - 23:59** | COMPANY NAME: | |
| | | MODELER: | |
| | CALM WINDS:<br>**4.31%** | TOTAL COUNT:<br>**43534 hrs.** | |
| | AVG. WIND SPEED:<br>**5.73 Knots** | DATE:<br>**5/14/2023** | PROJECT NO.: |

WRPLOT View - Lakes Environmental Software


Wind Class Frequency Distribution
40
35
30
25
20
15
10
5
0
%
34.3
30.6
21.2
8.6
4.3
0.4
0.0
Calms
0.50 - 2.10
2.10 - 3.60
3.60 - 5.70
5.70 - 8.80
8.80 - 11.10
>= 11.10
Wind Class (m/s)

# Health Risk Assessment

## Unmitigated Construction

# Bonadelle TM6467 Residential Project (Unmitigated Construction)

**Estimation of Annual Onsite Construction Emissions**

| | | |
|---|---|---|
| Start of Construction | 11/1/2024 | |
| End of Construction | 2/18/2028 | **Total** |
| Number of Days | 1,204 | 1,204 |
| Number of Hours | 28,896 | 28,896 |

**Size of the construction area source:** **59,919.7** **sq-meters**

| Run | Year | On-site Construction Activity | Unmitigated On-site DPM (pounds) |
|---|---|---|---|
| Project Construction | 2024 | Demolition | 21.2091 |
| Project Construction | 2024 | Site Preparation | 15.9966 |
| Project Construction | 2024 | Grading | 17.5835 |
| Project Construction | 2025 | Grading | 22.9352 |
| Project Construction | 2025 | Paving | 6.9718 |
| Project Construction | 2025 | Trenching/Utilities | 86.5246 |
| Project Construction | 2025 | Building Construction | 23.3235 |
| Project Construction | 2026 | Building Construction | 82.6053 |
| Project Construction | 2027 | Building Construction | 72.3786 |
| Project Construction | 2028 | Building Construction | 3.6881 |
| Project Construction | 2028 | Architectural Coating | 0.3071 |

**Total Unmitigated DPM (On-site)** 3.535E+02 pounds

**Factor in AERMOD to Account for 5 days per week/8 hours per day: 4.2**

| | | |
|---|---|---|
| Average Emission for Project Site (AREA) | 1.605E+05 | grams |
| | 1.543E-03 | grams/sec |
| | 2.575E-08 | grams/m2-sec |

| | |
|---|---|
| Pounds/Construction Period | 3.535E+02 |
| Pounds/Day | 2.936E-01 |
| Pounds/Hour | 1.223E-02 |
| Pounds/Year | 1.072E+02 |
| Years | 3.29863 |

# Bonadelle TM6467 Residential Project (Unmitigated Construction)

**Estimation of Annual Offsite Construction DPM Emissions (Unmitigated)**

| | | |
|---|---|---|
| Start of Construction | 11/1/2024 | |
| End of Construction | 2/18/2028 | **Total** |
| Number of Days | 1,204 | 1,204 |
| Number of Hours | 28,896 | 28,896 |

| | 2024 Project Construction | 2024 Project Construction | 2024+2025 Project Construction | 2025 Project Construction | 2025 Project Construction | 2025-2028 Project Construction | 2028 Project Construction | |
|---|---|---|---|---|---|---|---|---|
| **Construction Trip Type** | Demolition | Site Preparation | Grading | Paving | Trenching /Utilities | Building Construction | Architectural Coating | **Total (pounds)** |
| Total (pounds) | 0.03990 | 0.00739 | 0.86910 | 0.014770972 | 0.11817 | 1.85244 | 0.01510 | **2.91688** |

| | **Haul Truck** | **Vendor Truck** | **Worker** | **Total** |
|---|---|---|---|---|
| Demolition (2024) | 300.00 | 80.00 | 19.00 | 399.00 |
| Site Preparation (2024) | 175.00 | 40.00 | 0.00 | 215.00 |
| Grading (2024+2025) | 600.00 | 120.00 | 625.00 | 1,345.00 |
| Paving (2025) | 300.00 | 80.00 | 0.00 | 380.00 |
| Trenching/Utilities (2025) | 1,600.00 | 640.00 | 0.00 | 2,240.00 |
| Building Construction (2025-2028) | 34,992.00 | 10,390.68 | 0.00 | 45,382.68 |
| Architectural Coating (2028) | 233.28 | 80.00 | 0.00 | 313.28 |
| **Total** | **38,200.28** | **11,430.68** | **644.00** | **50,274.96** |

| | **Haul Truck (pounds)** | **Vendor Truck (pounds)** | **Worker (pounds)** | **Total (pounds)** |
|---|---|---|---|---|
| **Total DPM** | 2.216E+00 | 6.632E-01 | 3.736E-02 | 2.917E+00 |

| | | | | |
|---|---|---|---|---|
| **Average Emissions** | | | | |
| Grams | 1.006E+03 | 3.011E+02 | 1.696E+01 | |
| Grams/sec | 9.673E-06 | 2.894E-06 | 1.631E-07 | |
| Default Distance | 20 | 4 | 7.7 | Default Vehicle Travel Distance in CalEEMod |

| | | | | |
|---|---|---|---|---|
| **Vehicle Travel Distances in the Construction HRA (miles)** | | | | |
| Off-site Road Segment 1 | 0.44 | 0.44 | 0.44 | miles |
| **Trip Distribution (percent)** | | | | |
| Off-site Road Segment 1 | 100.0% | 100.0% | 100.0% | off-site |

| | | | | **Total** |
|---|---|---|---|---|
| **Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)** | | | | |
| Off-site Road Segment 1 | 2.113E-07 | 3.162E-07 | 9.254E-09 | 5.368E-07 |

| | Grams/sec | Pounds/Hour | Pounds/Day | Pounds/year | Tons/year |
|---|---|---|---|---|---|
| Off-site Road Segment 1 | 5.368E-07 | 4.260E-06 | 1.022E-04 | 3.732E-02 | 1.866E-05 |

# Health Risk Summary - Unmitigated Construction (Summary of HARP2 Results)

**Bonadelle TM6467 Residential Project (Unmitigated Construction)**

| | RISK_SUM | Cancer Risk/million | MAXHI NonCancer Chronic | MAXHI Acute |
|---|---|---|---|---|
| Maximum Risk | 2.1409E-05 | 21.41 | 1.0904E-02 | 0.00E+00 |

| | X | Y |
|---|---|---|
| MEI UTM | 258521.86 | 4084223.21 |
| Lat/Long | 36°52'23.2"N | 119°42'33.1"W |
| Receptor # 310 | | |

*HARP - HRACalc v22118 12/25/2023 8:30:43 PM - Cancer Risk - Input File: HARP (UNMIT)\hra\Unmit ConHRAInput.hra
*HARP - HRACalc v22118 12/25/2023 8:30:43 PM - Chronic Risk - Input File: HARP (UNMIT)\hra\Unmit ConHRAInput.hra
*HARP - HRACalc v22118 12/25/2023 8:30:43 PM - Acute Risk - Input File: HARP (UNMIT)\hra\Unmit ConHRAInput.hra

| REC | GRP | X | Y | RISK_SUM | SCENARIO | MAXHI NonCancerChronic | MAXHI Acute |
|---|---|---|---|---|---|---|---|
| 1 | ALL | 258771.79 | 4084351.29 | 2.53900E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.293E-03 | 0.00E+00 |
| 2 | ALL | 258854.63 | 4084404.68 | 8.19540E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.174E-04 | 0.00E+00 |
| 3 | ALL | 258839.82 | 4084405.13 | 8.91720E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.542E-04 | 0.00E+00 |
| 4 | ALL | 258767.07 | 4084392.87 | 1.64540E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.380E-04 | 0.00E+00 |
| 5 | ALL | 259413.55 | 4084209.66 | 2.24980E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.146E-04 | 0.00E+00 |
| 6 | ALL | 259392.22 | 4084265.46 | 1.99570E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.016E-04 | 0.00E+00 |
| 7 | ALL | 259370.89 | 4084321.25 | 1.75990E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.963E-05 | 0.00E+00 |
| 8 | ALL | 259349.55 | 4084377.04 | 1.55240E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.907E-05 | 0.00E+00 |
| 9 | ALL | 259328.22 | 4084432.83 | 1.39160E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.087E-05 | 0.00E+00 |
| 10 | ALL | 259306.89 | 4084488.62 | 1.24950E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.364E-05 | 0.00E+00 |
| 11 | ALL | 259285.56 | 4084544.41 | 1.13780E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.795E-05 | 0.00E+00 |
| 12 | ALL | 259264.23 | 4084600.20 | 1.05080E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.352E-05 | 0.00E+00 |
| 13 | ALL | 259242.90 | 4084656.00 | 9.82880E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.006E-05 | 0.00E+00 |
| 14 | ALL | 259194.28 | 4084723.93 | 9.60730E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.893E-05 | 0.00E+00 |
| 15 | ALL | 259139.71 | 4084748.21 | 1.03150E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.254E-05 | 0.00E+00 |
| 16 | ALL | 259085.14 | 4084772.49 | 1.11260E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.666E-05 | 0.00E+00 |
| 17 | ALL | 259030.57 | 4084796.77 | 1.19560E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.089E-05 | 0.00E+00 |
| 18 | ALL | 258975.99 | 4084821.06 | 1.27330E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.485E-05 | 0.00E+00 |
| 19 | ALL | 258921.42 | 4084845.34 | 1.34030E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.826E-05 | 0.00E+00 |
| 20 | ALL | 258866.85 | 4084869.62 | 1.39520E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.106E-05 | 0.00E+00 |
| 21 | ALL | 258812.28 | 4084893.90 | 1.44120E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.340E-05 | 0.00E+00 |
| 22 | ALL | 258757.71 | 4084918.18 | 1.48240E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.550E-05 | 0.00E+00 |
| 23 | ALL | 259423.37 | 4084151.85 | 2.60770E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.328E-04 | 0.00E+00 |
| 24 | ALL | 259421.67 | 4084092.01 | 3.10070E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.579E-04 | 0.00E+00 |
| 25 | ALL | 259523.59 | 4084206.33 | 1.71610E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.740E-05 | 0.00E+00 |
| 26 | ALL | 259502.43 | 4084261.68 | 1.54280E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.858E-05 | 0.00E+00 |
| 27 | ALL | 259481.27 | 4084317.02 | 1.38040E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.030E-05 | 0.00E+00 |
| 28 | ALL | 259460.11 | 4084372.37 | 1.23440E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.287E-05 | 0.00E+00 |
| 29 | ALL | 259438.95 | 4084427.71 | 1.11780E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.693E-05 | 0.00E+00 |
| 30 | ALL | 259417.79 | 4084483.06 | 1.01210E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.155E-05 | 0.00E+00 |
| 31 | ALL | 259396.62 | 4084538.41 | 9.26570E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.719E-05 | 0.00E+00 |
| 32 | ALL | 259375.46 | 4084593.75 | 8.58470E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.372E-05 | 0.00E+00 |
| 33 | ALL | 259354.30 | 4084649.10 | 8.04340E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.097E-05 | 0.00E+00 |
| 34 | ALL | 259333.14 | 4084704.44 | 7.61120E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.876E-05 | 0.00E+00 |
| 35 | ALL | 259311.98 | 4084759.79 | 7.26310E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.699E-05 | 0.00E+00 |
| 36 | ALL | 259274.33 | 4084799.51 | 7.31150E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.724E-05 | 0.00E+00 |
| 37 | ALL | 259220.20 | 4084823.59 | 7.80430E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.975E-05 | 0.00E+00 |
| 38 | ALL | 259166.06 | 4084847.68 | 8.35400E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.255E-05 | 0.00E+00 |
| 39 | ALL | 259111.92 | 4084871.77 | 8.92850E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.547E-05 | 0.00E+00 |
| 40 | ALL | 259057.79 | 4084895.86 | 9.48910E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.833E-05 | 0.00E+00 |
| 41 | ALL | 259003.65 | 4084919.95 | 9.99400E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.090E-05 | 0.00E+00 |
| 42 | ALL | 258949.52 | 4084944.03 | 1.04170E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.305E-05 | 0.00E+00 |
| 43 | ALL | 258895.38 | 4084968.12 | 1.07560E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.478E-05 | 0.00E+00 |
| 44 | ALL | 258841.24 | 4084992.21 | 1.10350E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.620E-05 | 0.00E+00 |
| 45 | ALL | 258787.11 | 4085016.30 | 1.12900E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.750E-05 | 0.00E+00 |
| 46 | ALL | 258732.97 | 4085040.39 | 1.15420E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.878E-05 | 0.00E+00 |
| 47 | ALL | 259533.32 | 4084148.74 | 1.95800E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.972E-05 | 0.00E+00 |
| 48 | ALL | 259531.63 | 4084088.90 | 2.28910E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.166E-04 | 0.00E+00 |
| 49 | ALL | 258432.62 | 4084049.36 | 4.15410E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.116E-03 | 0.00E+00 |
| 50 | ALL | 258394.03 | 4084051.05 | 2.90990E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.482E-03 | 0.00E+00 |
| 51 | ALL | 258455.35 | 4084022.86 | 3.06150E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.559E-03 | 0.00E+00 |
| 52 | ALL | 258407.45 | 4084024.89 | 2.16220E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.101E-03 | 0.00E+00 |
| 53 | ALL | 258837.42 | 4083782.54 | 9.86880E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.026E-04 | 0.00E+00 |
| 54 | ALL | 258895.19 | 4083788.44 | 1.09260E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.565E-04 | 0.00E+00 |
| 55 | ALL | 258979.89 | 4083870.61 | 1.61550E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.228E-04 | 0.00E+00 |
| 56 | ALL | 258693.45 | 4083606.06 | 2.70120E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.376E-04 | 0.00E+00 |
| 57 | ALL | 258727.72 | 4083618.67 | 3.09850E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.578E-04 | 0.00E+00 |
| 58 | ALL | 258771.60 | 4083627.20 | 3.57710E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.822E-04 | 0.00E+00 |
| 59 | ALL | 258802.19 | 4083638.19 | 4.04790E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.062E-04 | 0.00E+00 |
| 60 | ALL | 258832.46 | 4083660.61 | 4.85080E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.471E-04 | 0.00E+00 |
| 61 | ALL | 258882.36 | 4083669.86 | 5.58790E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.846E-04 | 0.00E+00 |
| 62 | ALL | 258894.00 | 4083704.06 | 6.81880E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.473E-04 | 0.00E+00 |
| 63 | ALL | 258933.35 | 4083694.38 | 6.82300E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.475E-04 | 0.00E+00 |
| 64 | ALL | 258967.63 | 4083706.99 | 7.48800E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.814E-04 | 0.00E+00 |

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|---|---|---|---|---|---|---|---|
| 65 | ALL | 259001.90 | 4083719.61 | 8.07190E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.111E-04 | 0.00E+00 |
| 66 | ALL | 259048.89 | 4083777.14 | 1.01270E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.158E-04 | 0.00E+00 |
| 67 | ALL | 259082.91 | 4083805.09 | 1.06870E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.443E-04 | 0.00E+00 |
| 68 | ALL | 259078.00 | 4083822.40 | 1.13660E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.789E-04 | 0.00E+00 |
| 69 | ALL | 258659.18 | 4083593.44 | 2.37750E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.211E-04 | 0.00E+00 |
| 70 | ALL | 258620.59 | 4083595.13 | 2.21370E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.128E-04 | 0.00E+00 |
| 71 | ALL | 258582.00 | 4083596.83 | 2.07310E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.056E-04 | 0.00E+00 |
| 72 | ALL | 258543.41 | 4083598.52 | 1.95520E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.958E-05 | 0.00E+00 |
| 73 | ALL | 258504.82 | 4083600.21 | 1.85960E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.471E-05 | 0.00E+00 |
| 74 | ALL | 258466.22 | 4083601.90 | 1.78370E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.085E-05 | 0.00E+00 |
| 75 | ALL | 258427.63 | 4083603.60 | 1.72450E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.783E-05 | 0.00E+00 |
| 76 | ALL | 258389.04 | 4083605.29 | 1.68920E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.603E-05 | 0.00E+00 |
| 77 | ALL | 258698.48 | 4083526.75 | 1.97090E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.004E-04 | 0.00E+00 |
| 78 | ALL | 258715.65 | 4083527.38 | 2.04260E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.040E-04 | 0.00E+00 |
| 79 | ALL | 258759.76 | 4083522.35 | 2.18720E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.114E-04 | 0.00E+00 |
| 80 | ALL | 258794.89 | 4083535.28 | 2.47690E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.262E-04 | 0.00E+00 |
| 81 | ALL | 258830.03 | 4083548.22 | 2.81170E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.432E-04 | 0.00E+00 |
| 82 | ALL | 258865.16 | 4083561.15 | 3.19650E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.628E-04 | 0.00E+00 |
| 83 | ALL | 258900.29 | 4083574.08 | 3.62250E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.845E-04 | 0.00E+00 |
| 84 | ALL | 258935.43 | 4083587.02 | 4.07140E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.074E-04 | 0.00E+00 |
| 85 | ALL | 258970.56 | 4083599.95 | 4.54090E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.313E-04 | 0.00E+00 |
| 86 | ALL | 259005.70 | 4083612.89 | 5.00750E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.550E-04 | 0.00E+00 |
| 87 | ALL | 259040.83 | 4083625.82 | 5.44480E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.773E-04 | 0.00E+00 |
| 88 | ALL | 259075.96 | 4083638.76 | 5.82410E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.966E-04 | 0.00E+00 |
| 89 | ALL | 259104.34 | 4083715.55 | 7.72670E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.935E-04 | 0.00E+00 |
| 90 | ALL | 259172.18 | 4083718.97 | 7.30100E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.718E-04 | 0.00E+00 |
| 91 | ALL | 259186.67 | 4083749.30 | 7.71990E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.932E-04 | 0.00E+00 |
| 92 | ALL | 259201.16 | 4083815.52 | 8.50770E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.333E-04 | 0.00E+00 |
| 93 | ALL | 259180.70 | 4083813.74 | 8.91850E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.542E-04 | 0.00E+00 |
| 94 | ALL | 259189.52 | 4083854.46 | 9.22720E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.700E-04 | 0.00E+00 |
| 95 | ALL | 259208.10 | 4083891.91 | 8.94520E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.556E-04 | 0.00E+00 |
| 96 | ALL | 259247.03 | 4083917.32 | 7.81190E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.979E-04 | 0.00E+00 |
| 97 | ALL | 259253.30 | 4083964.35 | 7.35890E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.748E-04 | 0.00E+00 |
| 98 | ALL | 258656.61 | 4083462.55 | 1.47080E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.491E-05 | 0.00E+00 |
| 99 | ALL | 258621.02 | 4083463.50 | 1.40070E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.134E-05 | 0.00E+00 |
| 100 | ALL | 258582.43 | 4083465.19 | 1.33800E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.815E-05 | 0.00E+00 |
| 101 | ALL | 258543.83 | 4083466.88 | 1.28530E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.546E-05 | 0.00E+00 |
| 102 | ALL | 258505.24 | 4083468.57 | 1.24140E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.323E-05 | 0.00E+00 |
| 103 | ALL | 258466.65 | 4083470.27 | 1.20480E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.136E-05 | 0.00E+00 |
| 104 | ALL | 258428.06 | 4083471.96 | 1.17420E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.980E-05 | 0.00E+00 |
| 105 | ALL | 258389.47 | 4083473.65 | 1.14860E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.850E-05 | 0.00E+00 |
| 106 | ALL | 258685.31 | 4083386.82 | 1.22040E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.215E-05 | 0.00E+00 |
| 107 | ALL | 258721.07 | 4083399.98 | 1.33630E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.806E-05 | 0.00E+00 |
| 108 | ALL | 258756.84 | 4083413.15 | 1.47370E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.506E-05 | 0.00E+00 |
| 109 | ALL | 258801.60 | 4083413.40 | 1.59190E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.108E-05 | 0.00E+00 |
| 110 | ALL | 258841.28 | 4083456.31 | 1.98710E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.012E-04 | 0.00E+00 |
| 111 | ALL | 258864.13 | 4083452.65 | 2.04410E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.041E-04 | 0.00E+00 |
| 112 | ALL | 258906.01 | 4083454.15 | 2.21470E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.128E-04 | 0.00E+00 |
| 113 | ALL | 258926.22 | 4083457.88 | 2.32790E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.186E-04 | 0.00E+00 |
| 114 | ALL | 258978.10 | 4083529.93 | 3.38640E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.725E-04 | 0.00E+00 |
| 115 | ALL | 259025.53 | 4083531.43 | 3.62360E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.846E-04 | 0.00E+00 |
| 116 | ALL | 259060.74 | 4083450.71 | 2.76520E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.408E-04 | 0.00E+00 |
| 117 | ALL | 259078.73 | 4083531.65 | 3.82970E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.951E-04 | 0.00E+00 |
| 118 | ALL | 259114.49 | 4083544.82 | 4.12940E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.103E-04 | 0.00E+00 |
| 119 | ALL | 259150.26 | 4083557.99 | 4.38780E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.235E-04 | 0.00E+00 |
| 120 | ALL | 259201.73 | 4083605.88 | 5.12080E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.608E-04 | 0.00E+00 |
| 121 | ALL | 259217.44 | 4083640.60 | 5.61610E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.860E-04 | 0.00E+00 |
| 122 | ALL | 259233.15 | 4083675.33 | 6.05880E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.086E-04 | 0.00E+00 |
| 123 | ALL | 259248.86 | 4083710.05 | 6.40600E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.263E-04 | 0.00E+00 |
| 124 | ALL | 259239.07 | 4083760.47 | 7.16310E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.648E-04 | 0.00E+00 |
| 125 | ALL | 259280.28 | 4083779.50 | 6.72030E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.423E-04 | 0.00E+00 |
| 126 | ALL | 259287.49 | 4083821.31 | 6.82980E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.479E-04 | 0.00E+00 |
| 127 | ALL | 259313.59 | 4083842.80 | 6.39010E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.255E-04 | 0.00E+00 |
| 128 | ALL | 259305.21 | 4083878.94 | 6.52960E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.326E-04 | 0.00E+00 |
| 129 | ALL | 259298.24 | 4083891.93 | 6.64590E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.385E-04 | 0.00E+00 |
| 130 | ALL | 259358.83 | 4083953.11 | 5.12260E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.609E-04 | 0.00E+00 |
| 131 | ALL | 259374.54 | 4083987.84 | 4.59030E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.338E-04 | 0.00E+00 |
| 132 | ALL | 259390.25 | 4084022.56 | 4.06200E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.069E-04 | 0.00E+00 |
| 133 | ALL | 259405.96 | 4084057.28 | 3.56060E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.813E-04 | 0.00E+00 |
| 134 | ALL | 258649.54 | 4083373.65 | 1.12330E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.721E-05 | 0.00E+00 |
| 135 | ALL | 258610.95 | 4083375.34 | 1.07920E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.496E-05 | 0.00E+00 |
| 136 | ALL | 258572.36 | 4083377.04 | 1.04170E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.306E-05 | 0.00E+00 |
| 137 | ALL | 258533.77 | 4083378.73 | 1.00970E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.142E-05 | 0.00E+00 |
| 138 | ALL | 258495.17 | 4083380.42 | 9.82000E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.001E-05 | 0.00E+00 |
| 139 | ALL | 258456.58 | 4083382.12 | 9.57720E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.878E-05 | 0.00E+00 |
| 140 | ALL | 258417.99 | 4083383.81 | 9.35730E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.766E-05 | 0.00E+00 |
| 141 | ALL | 258379.40 | 4083385.50 | 9.15720E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.664E-05 | 0.00E+00 |
| 142 | ALL | 258680.97 | 4083277.10 | 9.13090E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.650E-05 | 0.00E+00 |
| 143 | ALL | 258717.22 | 4083290.45 | 9.83560E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.009E-05 | 0.00E+00 |
| 144 | ALL | 258753.47 | 4083303.79 | 1.06650E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.432E-05 | 0.00E+00 |
| 145 | ALL | 258789.71 | 4083317.14 | 1.16320E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.925E-05 | 0.00E+00 |
| 146 | ALL | 258825.96 | 4083330.48 | 1.27670E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.503E-05 | 0.00E+00 |
| 147 | ALL | 258862.21 | 4083343.83 | 1.40600E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.161E-05 | 0.00E+00 |
| 148 | ALL | 258898.46 | 4083357.17 | 1.55650E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.927E-05 | 0.00E+00 |

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|---|---|---|---|---|---|---|---|
| 149 | ALL | 258934.71 | 4083370.52 | 1.72410E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.781E-05 | 0.00E+00 |
| 150 | ALL | 258970.96 | 4083383.86 | 1.91310E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.744E-05 | 0.00E+00 |
| 151 | ALL | 259007.21 | 4083397.20 | 2.12020E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.080E-04 | 0.00E+00 |
| 152 | ALL | 259043.46 | 4083410.55 | 2.34130E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.193E-04 | 0.00E+00 |
| 153 | ALL | 259079.70 | 4083423.89 | 2.56770E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.308E-04 | 0.00E+00 |
| 154 | ALL | 259115.95 | 4083437.24 | 2.80000E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.426E-04 | 0.00E+00 |
| 155 | ALL | 259152.20 | 4083450.58 | 3.02790E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.542E-04 | 0.00E+00 |
| 156 | ALL | 259188.45 | 4083463.93 | 3.24090E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.651E-04 | 0.00E+00 |
| 157 | ALL | 259224.70 | 4083477.27 | 3.42910E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.747E-04 | 0.00E+00 |
| 158 | ALL | 259276.87 | 4083525.81 | 3.96120E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.018E-04 | 0.00E+00 |
| 159 | ALL | 259292.79 | 4083561.00 | 4.32120E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.201E-04 | 0.00E+00 |
| 160 | ALL | 259308.72 | 4083596.20 | 4.65080E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.369E-04 | 0.00E+00 |
| 161 | ALL | 259324.64 | 4083631.39 | 4.92890E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.510E-04 | 0.00E+00 |
| 162 | ALL | 259340.56 | 4083666.58 | 5.13500E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.615E-04 | 0.00E+00 |
| 163 | ALL | 259356.48 | 4083701.78 | 5.24810E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.673E-04 | 0.00E+00 |
| 164 | ALL | 259372.41 | 4083736.97 | 5.25640E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.677E-04 | 0.00E+00 |
| 165 | ALL | 259388.33 | 4083772.16 | 5.16880E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.633E-04 | 0.00E+00 |
| 166 | ALL | 259404.25 | 4083807.35 | 4.98360E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.538E-04 | 0.00E+00 |
| 167 | ALL | 259420.17 | 4083842.55 | 4.72090E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.404E-04 | 0.00E+00 |
| 168 | ALL | 259436.10 | 4083877.74 | 4.40230E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.242E-04 | 0.00E+00 |
| 169 | ALL | 259452.02 | 4083912.93 | 4.04510E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.060E-04 | 0.00E+00 |
| 170 | ALL | 259467.94 | 4083948.13 | 3.66990E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.869E-04 | 0.00E+00 |
| 171 | ALL | 259483.86 | 4083983.32 | 3.29460E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.678E-04 | 0.00E+00 |
| 172 | ALL | 259499.79 | 4084018.51 | 2.93350E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.494E-04 | 0.00E+00 |
| 173 | ALL | 259515.71 | 4084053.70 | 2.59650E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.322E-04 | 0.00E+00 |
| 174 | ALL | 258644.72 | 4083263.76 | 8.53200E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.345E-05 | 0.00E+00 |
| 175 | ALL | 258606.13 | 4083265.45 | 8.26980E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.212E-05 | 0.00E+00 |
| 176 | ALL | 258567.54 | 4083267.14 | 8.04520E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.098E-05 | 0.00E+00 |
| 177 | ALL | 258528.95 | 4083268.84 | 7.85290E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.000E-05 | 0.00E+00 |
| 178 | ALL | 258490.35 | 4083270.53 | 7.68500E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.914E-05 | 0.00E+00 |
| 179 | ALL | 258451.76 | 4083272.22 | 7.53630E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.838E-05 | 0.00E+00 |
| 180 | ALL | 258413.17 | 4083273.91 | 7.40180E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.770E-05 | 0.00E+00 |
| 181 | ALL | 258374.58 | 4083275.61 | 7.27780E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.707E-05 | 0.00E+00 |
| 182 | ALL | 258427.55 | 4084018.70 | 2.32100E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.182E-03 | 0.00E+00 |
| 183 | ALL | 257682.15 | 4084127.78 | 2.30840E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.176E-04 | 0.00E+00 |
| 184 | ALL | 257701.63 | 4084074.74 | 2.22890E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.135E-04 | 0.00E+00 |
| 185 | ALL | 257721.10 | 4084021.70 | 2.15770E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.099E-04 | 0.00E+00 |
| 186 | ALL | 257740.57 | 4083968.66 | 2.08150E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.060E-04 | 0.00E+00 |
| 187 | ALL | 257760.04 | 4083915.61 | 1.98690E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.012E-04 | 0.00E+00 |
| 188 | ALL | 257779.51 | 4083862.57 | 1.86860E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.517E-05 | 0.00E+00 |
| 189 | ALL | 257798.98 | 4083809.53 | 1.72970E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.809E-05 | 0.00E+00 |
| 190 | ALL | 257818.45 | 4083756.49 | 1.57910E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.042E-05 | 0.00E+00 |
| 191 | ALL | 257837.92 | 4083703.45 | 1.42670E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.266E-05 | 0.00E+00 |
| 192 | ALL | 257857.39 | 4083650.41 | 1.28060E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.522E-05 | 0.00E+00 |
| 193 | ALL | 257892.74 | 4083611.97 | 1.19710E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.097E-05 | 0.00E+00 |
| 194 | ALL | 257943.97 | 4083588.13 | 1.16360E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.926E-05 | 0.00E+00 |
| 195 | ALL | 257995.20 | 4083564.29 | 1.12720E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.741E-05 | 0.00E+00 |
| 196 | ALL | 258147.34 | 4083482.78 | 9.98150E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.084E-05 | 0.00E+00 |
| 197 | ALL | 258200.11 | 4083468.94 | 9.94360E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.064E-05 | 0.00E+00 |
| 198 | ALL | 258251.33 | 4083445.10 | 9.69300E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.937E-05 | 0.00E+00 |
| 199 | ALL | 258302.56 | 4083421.26 | 9.46440E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.820E-05 | 0.00E+00 |
| 200 | ALL | 257673.55 | 4084182.53 | 2.46410E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.255E-04 | 0.00E+00 |
| 201 | ALL | 257675.80 | 4084238.99 | 2.71280E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.382E-04 | 0.00E+00 |
| 202 | ALL | 257572.23 | 4084132.20 | 1.88330E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.592E-05 | 0.00E+00 |
| 203 | ALL | 257591.68 | 4084079.22 | 1.82570E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.299E-05 | 0.00E+00 |
| 204 | ALL | 257611.13 | 4084026.24 | 1.77690E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.050E-05 | 0.00E+00 |
| 205 | ALL | 257630.58 | 4083973.26 | 1.72960E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.809E-05 | 0.00E+00 |
| 206 | ALL | 257650.02 | 4083920.28 | 1.67430E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.528E-05 | 0.00E+00 |
| 207 | ALL | 257669.47 | 4083867.30 | 1.60380E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.168E-05 | 0.00E+00 |
| 208 | ALL | 257688.92 | 4083814.32 | 1.51610E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.722E-05 | 0.00E+00 |
| 209 | ALL | 257708.37 | 4083761.35 | 1.41460E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.205E-05 | 0.00E+00 |
| 210 | ALL | 257727.82 | 4083708.37 | 1.30500E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.646E-05 | 0.00E+00 |
| 211 | ALL | 257747.26 | 4083655.39 | 1.19340E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.078E-05 | 0.00E+00 |
| 212 | ALL | 257766.71 | 4083602.41 | 1.08490E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.526E-05 | 0.00E+00 |
| 213 | ALL | 257811.74 | 4083537.52 | 9.71550E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.948E-05 | 0.00E+00 |
| 214 | ALL | 257862.91 | 4083513.71 | 9.45500E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.816E-05 | 0.00E+00 |
| 215 | ALL | 257914.08 | 4083489.90 | 9.17040E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.671E-05 | 0.00E+00 |
| 216 | ALL | 257965.25 | 4083466.09 | 8.88170E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.524E-05 | 0.00E+00 |
| 217 | ALL | 258016.41 | 4083442.28 | 8.60270E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.381E-05 | 0.00E+00 |
| 218 | ALL | 258067.58 | 4083418.47 | 8.34670E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.251E-05 | 0.00E+00 |
| 219 | ALL | 258118.75 | 4083394.66 | 8.11720E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.134E-05 | 0.00E+00 |
| 220 | ALL | 258169.91 | 4083370.85 | 7.91540E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.031E-05 | 0.00E+00 |
| 221 | ALL | 258221.08 | 4083347.04 | 7.73650E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.940E-05 | 0.00E+00 |
| 222 | ALL | 258272.25 | 4083323.23 | 7.57440E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.858E-05 | 0.00E+00 |
| 223 | ALL | 258323.41 | 4083299.42 | 7.42240E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.780E-05 | 0.00E+00 |
| 224 | ALL | 257563.63 | 4084186.92 | 1.99530E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.016E-04 | 0.00E+00 |
| 225 | ALL | 257565.89 | 4084243.38 | 2.17200E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.106E-04 | 0.00E+00 |
| 226 | ALL | 258382.28 | 4084295.95 | 6.12460E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.119E-03 | 0.00E+00 |
| 227 | ALL | 258398.86 | 4084935.93 | 2.32000E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.182E-04 | 0.00E+00 |
| 228 | ALL | 258363.89 | 4084922.61 | 2.51050E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.279E-04 | 0.00E+00 |
| 229 | ALL | 258328.92 | 4084909.29 | 2.69590E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.373E-04 | 0.00E+00 |
| 230 | ALL | 258293.94 | 4084895.97 | 2.88450E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.469E-04 | 0.00E+00 |
| 231 | ALL | 258258.97 | 4084882.66 | 3.07090E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.564E-04 | 0.00E+00 |
| 232 | ALL | 258224.00 | 4084869.34 | 3.25060E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.656E-04 | 0.00E+00 |

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|---|---|---|---|---|---|---|---|
| 233 | ALL | 258189.03 | 4084856.02 | 3.41970E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.742E-04 | 0.00E+00 |
| 234 | ALL | 258154.05 | 4084842.70 | 3.57540E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.821E-04 | 0.00E+00 |
| 235 | ALL | 258119.08 | 4084829.39 | 3.71570E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.892E-04 | 0.00E+00 |
| 236 | ALL | 258084.11 | 4084816.07 | 3.83870E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.955E-04 | 0.00E+00 |
| 237 | ALL | 258049.14 | 4084802.75 | 3.94170E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.008E-04 | 0.00E+00 |
| 238 | ALL | 258014.16 | 4084789.43 | 4.02170E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.048E-04 | 0.00E+00 |
| 239 | ALL | 257979.19 | 4084776.12 | 4.07590E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.076E-04 | 0.00E+00 |
| 240 | ALL | 257944.22 | 4084762.80 | 4.10340E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.090E-04 | 0.00E+00 |
| 241 | ALL | 257893.68 | 4084715.45 | 4.34370E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.212E-04 | 0.00E+00 |
| 242 | ALL | 257878.12 | 4084681.42 | 4.56830E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.327E-04 | 0.00E+00 |
| 243 | ALL | 257862.56 | 4084647.38 | 4.74980E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.419E-04 | 0.00E+00 |
| 244 | ALL | 257846.99 | 4084613.35 | 4.87140E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.481E-04 | 0.00E+00 |
| 245 | ALL | 257831.43 | 4084579.32 | 4.92890E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.510E-04 | 0.00E+00 |
| 246 | ALL | 257815.87 | 4084545.28 | 4.91400E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.503E-04 | 0.00E+00 |
| 247 | ALL | 257800.30 | 4084511.25 | 4.82340E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.457E-04 | 0.00E+00 |
| 248 | ALL | 257784.74 | 4084477.22 | 4.66080E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.374E-04 | 0.00E+00 |
| 249 | ALL | 257769.18 | 4084443.19 | 4.43290E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.258E-04 | 0.00E+00 |
| 250 | ALL | 257753.61 | 4084409.15 | 4.16510E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.121E-04 | 0.00E+00 |
| 251 | ALL | 257738.05 | 4084375.12 | 3.86730E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.970E-04 | 0.00E+00 |
| 252 | ALL | 257722.49 | 4084341.09 | 3.56190E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.814E-04 | 0.00E+00 |
| 253 | ALL | 257706.93 | 4084307.06 | 3.25820E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.659E-04 | 0.00E+00 |
| 254 | ALL | 257691.36 | 4084273.02 | 2.97210E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.514E-04 | 0.00E+00 |
| 255 | ALL | 258433.83 | 4084949.25 | 2.15020E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.095E-04 | 0.00E+00 |
| 256 | ALL | 258472.31 | 4084948.28 | 2.06780E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.053E-04 | 0.00E+00 |
| 257 | ALL | 258510.78 | 4084947.31 | 1.98170E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.009E-04 | 0.00E+00 |
| 258 | ALL | 258549.25 | 4084946.34 | 1.89220E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.637E-05 | 0.00E+00 |
| 259 | ALL | 258587.72 | 4084945.37 | 1.79970E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.166E-05 | 0.00E+00 |
| 260 | ALL | 258626.19 | 4084944.40 | 1.70550E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.686E-05 | 0.00E+00 |
| 261 | ALL | 258664.66 | 4084943.43 | 1.61170E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.208E-05 | 0.00E+00 |
| 262 | ALL | 258703.13 | 4084942.47 | 1.52050E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.744E-05 | 0.00E+00 |
| 263 | ALL | 258401.16 | 4085045.71 | 1.70650E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.691E-05 | 0.00E+00 |
| 264 | ALL | 258365.71 | 4085032.22 | 1.82400E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.290E-05 | 0.00E+00 |
| 265 | ALL | 258330.27 | 4085018.72 | 1.94880E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.925E-05 | 0.00E+00 |
| 266 | ALL | 258294.82 | 4085005.22 | 2.08640E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.063E-04 | 0.00E+00 |
| 267 | ALL | 258259.38 | 4084991.72 | 2.22050E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.131E-04 | 0.00E+00 |
| 268 | ALL | 258223.93 | 4084978.23 | 2.35400E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.199E-04 | 0.00E+00 |
| 269 | ALL | 258188.49 | 4084964.73 | 2.48480E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.266E-04 | 0.00E+00 |
| 270 | ALL | 258153.04 | 4084951.23 | 2.61050E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.330E-04 | 0.00E+00 |
| 271 | ALL | 258117.60 | 4084937.73 | 2.72880E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.390E-04 | 0.00E+00 |
| 272 | ALL | 258082.15 | 4084924.23 | 2.83840E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.446E-04 | 0.00E+00 |
| 273 | ALL | 258046.71 | 4084910.74 | 2.93790E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.496E-04 | 0.00E+00 |
| 274 | ALL | 258011.26 | 4084897.24 | 3.02650E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.541E-04 | 0.00E+00 |
| 275 | ALL | 257975.82 | 4084883.74 | 3.10250E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.580E-04 | 0.00E+00 |
| 276 | ALL | 257940.37 | 4084870.24 | 3.16470E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.612E-04 | 0.00E+00 |
| 277 | ALL | 257904.93 | 4084856.75 | 3.21180E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.636E-04 | 0.00E+00 |
| 278 | ALL | 257869.48 | 4084843.25 | 3.24320E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.652E-04 | 0.00E+00 |
| 279 | ALL | 257818.26 | 4084795.26 | 3.44450E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.754E-04 | 0.00E+00 |
| 280 | ALL | 257802.49 | 4084760.77 | 3.61710E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.842E-04 | 0.00E+00 |
| 281 | ALL | 257786.72 | 4084726.27 | 3.76780E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.919E-04 | 0.00E+00 |
| 282 | ALL | 257770.94 | 4084691.78 | 3.89110E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.982E-04 | 0.00E+00 |
| 283 | ALL | 257755.17 | 4084657.29 | 3.98110E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.028E-04 | 0.00E+00 |
| 284 | ALL | 257739.39 | 4084622.80 | 4.01430E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.045E-04 | 0.00E+00 |
| 285 | ALL | 257723.62 | 4084588.30 | 3.99620E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.035E-04 | 0.00E+00 |
| 286 | ALL | 257707.85 | 4084553.81 | 3.92540E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.999E-04 | 0.00E+00 |
| 287 | ALL | 257692.07 | 4084519.32 | 3.80510E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.938E-04 | 0.00E+00 |
| 288 | ALL | 257676.30 | 4084484.83 | 3.64200E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.855E-04 | 0.00E+00 |
| 289 | ALL | 257660.53 | 4084450.33 | 3.44700E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.756E-04 | 0.00E+00 |
| 290 | ALL | 257644.75 | 4084415.84 | 3.23100E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.646E-04 | 0.00E+00 |
| 291 | ALL | 257628.98 | 4084381.35 | 3.00490E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.530E-04 | 0.00E+00 |
| 292 | ALL | 257613.21 | 4084346.85 | 2.77750E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.415E-04 | 0.00E+00 |
| 293 | ALL | 257597.43 | 4084312.36 | 2.55920E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.303E-04 | 0.00E+00 |
| 294 | ALL | 257581.66 | 4084277.87 | 2.35670E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.200E-04 | 0.00E+00 |
| 295 | ALL | 258436.60 | 4085059.21 | 1.59530E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.125E-05 | 0.00E+00 |
| 296 | ALL | 258475.07 | 4085058.24 | 1.53810E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.834E-05 | 0.00E+00 |
| 297 | ALL | 258513.55 | 4085057.27 | 1.47860E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.531E-05 | 0.00E+00 |
| 298 | ALL | 258552.02 | 4085056.31 | 1.41690E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.216E-05 | 0.00E+00 |
| 299 | ALL | 258590.49 | 4085055.34 | 1.35370E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.894E-05 | 0.00E+00 |
| 300 | ALL | 258628.96 | 4085054.37 | 1.28990E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.570E-05 | 0.00E+00 |
| 301 | ALL | 258667.43 | 4085053.40 | 1.22720E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.250E-05 | 0.00E+00 |
| 302 | ALL | 258404.04 | 4084257.27 | 9.96060E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.073E-03 | 0.00E+00 |
| 303 | ALL | 258415.08 | 4084289.21 | 7.16580E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.650E-03 | 0.00E+00 |
| 304 | ALL | 258414.69 | 4084274.53 | 8.25840E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.206E-03 | 0.00E+00 |
| 305 | ALL | 258429.94 | 4084296.83 | 7.05810E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.595E-03 | 0.00E+00 |
| 306 | ALL | 258441.68 | 4084257.32 | 1.07780E-05 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.489E-03 | 0.00E+00 |
| 307 | ALL | 258519.90 | 4084270.62 | 1.50090E-05 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.644E-03 | 0.00E+00 |
| 308 | ALL | 258532.02 | 4084270.62 | 1.74860E-05 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.906E-03 | 0.00E+00 |
| 309 | ALL | 258539.83 | 4084255.54 | 2.01590E-05 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.027E-02 | 0.00E+00 |
| 310 | ALL | 258521.86 | 4084223.21 | 2.14090E-05 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.090E-02 | 0.00E+00 |
| 311 | ALL | 258781.30 | 4084394.27 | 1.45250E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.398E-04 | 0.00E+00 |
| 312 | ALL | 258796.19 | 4084395.23 | 1.28760E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.558E-04 | 0.00E+00 |
| 313 | ALL | 258857.92 | 4084341.90 | 1.30190E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.631E-04 | 0.00E+00 |
| 314 | ALL | 258381.67 | 4084021.46 | 1.70560E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.687E-04 | 0.00E+00 |
| 315 | ALL | 258309.03 | 4084063.67 | 1.78140E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.073E-04 | 0.00E+00 |
| 316 | ALL | 258300.45 | 4084056.72 | 1.57770E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.035E-04 | 0.00E+00 |

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|---|---|---|---|---|---|---|---|
| 317 | ALL | 258297.18 | 4084048.35 | 1.43130E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.290E-04 | 0.00E+00 |
| 318 | ALL | 258532.20 | 4083943.49 | 1.62720E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.287E-04 | 0.00E+00 |
| 319 | ALL | 258531.59 | 4083928.98 | 1.39040E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.082E-04 | 0.00E+00 |
| 320 | ALL | 258548.95 | 4083919.18 | 1.35560E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.904E-04 | 0.00E+00 |
| 321 | ALL | 258310.01 | 4084835.46 | 3.49680E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.781E-04 | 0.00E+00 |
| 322 | ALL | 258327.51 | 4084834.54 | 3.46820E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.766E-04 | 0.00E+00 |
| 323 | ALL | 258800.04 | 4083832.11 | 1.28840E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.562E-04 | 0.00E+00 |
| 324 | ALL | 258819.84 | 4083833.03 | 1.33470E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.798E-04 | 0.00E+00 |
| 325 | ALL | 258837.33 | 4083829.81 | 1.33500E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.799E-04 | 0.00E+00 |
| 326 | ALL | 258798.66 | 4083787.91 | 9.55310E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.866E-04 | 0.00E+00 |
| 327 | ALL | 258816.61 | 4083789.29 | 9.95720E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.071E-04 | 0.00E+00 |
| 328 | ALL | 258875.08 | 4083784.69 | 1.05020E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.349E-04 | 0.00E+00 |
| 329 | ALL | 258851.14 | 4083784.69 | 1.02010E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.195E-04 | 0.00E+00 |
| 330 | ALL | 258914.21 | 4083783.77 | 1.07730E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.487E-04 | 0.00E+00 |
| 331 | ALL | 258856.20 | 4083828.88 | 1.35170E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.884E-04 | 0.00E+00 |
| 332 | ALL | 258876.46 | 4083830.73 | 1.38520E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.055E-04 | 0.00E+00 |
| 333 | ALL | 258898.10 | 4083827.96 | 1.37480E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.002E-04 | 0.00E+00 |
| 334 | ALL | 258915.44 | 4083822.94 | 1.34000E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.825E-04 | 0.00E+00 |
| 335 | ALL | 258931.54 | 4083824.89 | 1.35330E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.893E-04 | 0.00E+00 |
| 336 | ALL | 258953.60 | 4083825.45 | 1.34700E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.860E-04 | 0.00E+00 |
| 337 | ALL | 258970.84 | 4083826.87 | 1.34130E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.831E-04 | 0.00E+00 |
| 338 | ALL | 258993.46 | 4083824.33 | 1.29750E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.608E-04 | 0.00E+00 |
| 339 | ALL | 258930.98 | 4083783.33 | 1.08260E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.514E-04 | 0.00E+00 |
| 340 | ALL | 258950.49 | 4083783.61 | 1.08900E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.546E-04 | 0.00E+00 |
| 341 | ALL | 258972.03 | 4083780.69 | 1.07300E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.465E-04 | 0.00E+00 |
| 342 | ALL | 259008.61 | 4083779.36 | 1.05340E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.365E-04 | 0.00E+00 |
| 343 | ALL | 258989.99 | 4083781.69 | 1.07350E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.468E-04 | 0.00E+00 |
| 344 | ALL | 259010.28 | 4083825.59 | 1.27940E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.516E-04 | 0.00E+00 |
| 345 | ALL | 259031.90 | 4083822.93 | 1.22980E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.263E-04 | 0.00E+00 |
| 346 | ALL | 259027.91 | 4083781.35 | 1.04880E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.342E-04 | 0.00E+00 |
| 347 | ALL | 258997.31 | 4083873.16 | 1.58130E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.053E-04 | 0.00E+00 |
| 348 | ALL | 259017.93 | 4083871.16 | 1.50420E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.661E-04 | 0.00E+00 |
| 349 | ALL | 259033.23 | 4083867.17 | 1.43490E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.308E-04 | 0.00E+00 |
| 350 | ALL | 259060.17 | 4083870.83 | 1.36040E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.929E-04 | 0.00E+00 |
| 351 | ALL | 259092.77 | 4083789.00 | 1.00010E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.094E-04 | 0.00E+00 |
| 352 | ALL | 258799.98 | 4083743.62 | 7.25590E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.696E-04 | 0.00E+00 |
| 353 | ALL | 258817.23 | 4083744.18 | 7.52800E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.834E-04 | 0.00E+00 |
| 354 | ALL | 258838.72 | 4083742.49 | 7.75440E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.949E-04 | 0.00E+00 |
| 355 | ALL | 258854.27 | 4083743.05 | 7.98600E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.067E-04 | 0.00E+00 |
| 356 | ALL | 258873.78 | 4083741.92 | 8.17090E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.162E-04 | 0.00E+00 |
| 357 | ALL | 258891.87 | 4083741.07 | 8.32790E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.241E-04 | 0.00E+00 |
| 358 | ALL | 258909.12 | 4083742.77 | 8.57090E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.365E-04 | 0.00E+00 |
| 359 | ALL | 258927.50 | 4083741.92 | 8.67610E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.419E-04 | 0.00E+00 |
| 360 | ALL | 258946.72 | 4083741.64 | 8.78300E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.473E-04 | 0.00E+00 |
| 361 | ALL | 258965.10 | 4083740.79 | 8.82700E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.496E-04 | 0.00E+00 |
| 362 | ALL | 258984.89 | 4083739.94 | 8.84320E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.504E-04 | 0.00E+00 |
| 363 | ALL | 259002.70 | 4083739.09 | 8.82420E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.494E-04 | 0.00E+00 |
| 364 | ALL | 258797.44 | 4083705.16 | 5.75410E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.931E-04 | 0.00E+00 |
| 365 | ALL | 258817.51 | 4083704.60 | 5.98810E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.050E-04 | 0.00E+00 |
| 366 | ALL | 258839.00 | 4083706.01 | 6.28970E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.203E-04 | 0.00E+00 |
| 367 | ALL | 258855.96 | 4083705.73 | 6.47380E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.297E-04 | 0.00E+00 |
| 368 | ALL | 258877.74 | 4083702.62 | 6.59970E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.361E-04 | 0.00E+00 |
| 369 | ALL | 258912.45 | 4083702.25 | 6.92720E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.528E-04 | 0.00E+00 |
| 370 | ALL | 258949.94 | 4083702.25 | 7.21540E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.675E-04 | 0.00E+00 |
| 371 | ALL | 258984.07 | 4083700.32 | 7.32810E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.732E-04 | 0.00E+00 |
| 372 | ALL | 259002.81 | 4083699.84 | 7.37600E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.757E-04 | 0.00E+00 |
| 373 | ALL | 258898.77 | 4083648.91 | 5.16510E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.631E-04 | 0.00E+00 |
| 374 | ALL | 258627.60 | 4083540.66 | 1.82520E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.296E-05 | 0.00E+00 |
| 375 | ALL | 258513.83 | 4083537.00 | 1.53010E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.793E-05 | 0.00E+00 |
| 376 | ALL | 258774.97 | 4083660.95 | 4.28200E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.181E-04 | 0.00E+00 |
| 377 | ALL | 258769.92 | 4083651.33 | 4.02590E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.050E-04 | 0.00E+00 |
| 378 | ALL | 258774.97 | 4083637.63 | 3.79730E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.934E-04 | 0.00E+00 |
| 379 | ALL | 258773.05 | 4083614.79 | 3.37780E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.720E-04 | 0.00E+00 |
| 380 | ALL | 258800.45 | 4083672.96 | 4.83850E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.464E-04 | 0.00E+00 |
| 381 | ALL | 258800.93 | 4083660.95 | 4.54060E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.313E-04 | 0.00E+00 |
| 382 | ALL | 258800.45 | 4083651.81 | 4.32190E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.201E-04 | 0.00E+00 |
| 383 | ALL | 258832.17 | 4083650.61 | 4.59980E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.343E-04 | 0.00E+00 |
| 384 | ALL | 258833.86 | 4083672.48 | 5.18320E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.640E-04 | 0.00E+00 |
| 385 | ALL | 258832.90 | 4083638.59 | 4.33210E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.206E-04 | 0.00E+00 |
| 386 | ALL | 258853.33 | 4083670.80 | 5.33640E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.718E-04 | 0.00E+00 |
| 387 | ALL | 258851.89 | 4083659.98 | 5.02640E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.560E-04 | 0.00E+00 |
| 388 | ALL | 258850.45 | 4083648.21 | 4.71450E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.401E-04 | 0.00E+00 |
| 389 | ALL | 258899.25 | 4083659.25 | 5.44610E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.774E-04 | 0.00E+00 |
| 390 | ALL | 258879.12 | 4083659.84 | 5.27800E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.688E-04 | 0.00E+00 |
| 391 | ALL | 258879.84 | 4083649.03 | 5.00340E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.548E-04 | 0.00E+00 |
| 392 | ALL | 258879.84 | 4083637.01 | 4.70790E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.398E-04 | 0.00E+00 |
| 393 | ALL | 258852.44 | 4083637.97 | 4.49110E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.287E-04 | 0.00E+00 |
| 394 | ALL | 258900.03 | 4083669.22 | 5.73750E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.922E-04 | 0.00E+00 |
| 395 | ALL | 258773.78 | 4083671.75 | 4.52290E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.304E-04 | 0.00E+00 |
| 396 | ALL | 258896.43 | 4083635.32 | 4.80650E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.448E-04 | 0.00E+00 |
| 397 | ALL | 259101.17 | 4083742.27 | 8.49650E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.327E-04 | 0.00E+00 |
| 398 | ALL | 257956.80 | 4083551.58 | 1.07320E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.466E-05 | 0.00E+00 |
| 399 | ALL | 258299.79 | 4083477.86 | 1.08450E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.524E-05 | 0.00E+00 |
| 400 | ALL | 258436.73 | 4083663.40 | 2.13730E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.089E-04 | 0.00E+00 |

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|---|---|---|---|---|---|---|---|
| 401 | ALL | 258437.84 | 4083647.84 | 2.02360E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.031E-04 | 0.00E+00 |
| 402 | ALL | 258459.51 | 4083635.62 | 1.98790E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.012E-04 | 0.00E+00 |
| 403 | ALL | 258376.97 | 4083538.26 | 1.38210E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.039E-05 | 0.00E+00 |
| 404 | ALL | 258393.50 | 4083537.79 | 1.38380E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.048E-05 | 0.00E+00 |
| 405 | ALL | 258307.43 | 4083534.01 | 1.31680E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.707E-05 | 0.00E+00 |
| 406 | ALL | 258272.12 | 4083541.20 | 1.26200E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.428E-05 | 0.00E+00 |
| 407 | ALL | 258098.15 | 4083481.43 | 9.71230E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.947E-05 | 0.00E+00 |
| 408 | ALL | 258061.23 | 4083493.74 | 9.82460E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.004E-05 | 0.00E+00 |
| 409 | ALL | 258226.60 | 4083477.59 | 1.03100E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.251E-05 | 0.00E+00 |
| 410 | ALL | 258361.21 | 4083459.13 | 1.08050E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.503E-05 | 0.00E+00 |
| 411 | ALL | 258020.46 | 4083486.82 | 9.50160E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.839E-05 | 0.00E+00 |
| 412 | ALL | 258042.00 | 4083487.59 | 9.60620E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.893E-05 | 0.00E+00 |
| 413 | ALL | 258275.83 | 4083476.05 | 1.06080E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.403E-05 | 0.00E+00 |
| 414 | ALL | 258711.10 | 4083462.61 | 1.60670E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.183E-05 | 0.00E+00 |
| 415 | ALL | 258766.68 | 4083459.83 | 1.75490E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.938E-05 | 0.00E+00 |
| 416 | ALL | 258799.47 | 4083558.75 | 2.76230E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.407E-04 | 0.00E+00 |
| 417 | ALL | 258964.79 | 4083455.94 | 2.46500E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.255E-04 | 0.00E+00 |
| 418 | ALL | 259000.10 | 4083453.98 | 2.58390E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.316E-04 | 0.00E+00 |
| 419 | ALL | 258916.41 | 4083410.17 | 1.91770E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.767E-05 | 0.00E+00 |
| 420 | ALL | 258494.66 | 4083420.63 | 1.08340E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.518E-05 | 0.00E+00 |
| 421 | ALL | 258674.47 | 4083415.40 | 1.30620E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.653E-05 | 0.00E+00 |
| 422 | ALL | 258431.23 | 4083427.17 | 1.04800E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.338E-05 | 0.00E+00 |
| 423 | ALL | 259186.93 | 4083925.38 | 9.68090E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.931E-04 | 0.00E+00 |
| 424 | ALL | 259176.19 | 4083917.25 | 1.00610E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.124E-04 | 0.00E+00 |
| 425 | ALL | 259161.40 | 4083909.71 | 1.05710E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.384E-04 | 0.00E+00 |
| 426 | ALL | 259201.76 | 4083935.11 | 9.14250E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.656E-04 | 0.00E+00 |
| 427 | ALL | 259213.57 | 4083943.61 | 8.71170E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.437E-04 | 0.00E+00 |
| 428 | ALL | 259226.33 | 4083951.64 | 8.25520E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.204E-04 | 0.00E+00 |
| 429 | ALL | 259264.60 | 4083975.74 | 6.94850E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.539E-04 | 0.00E+00 |
| 430 | ALL | 259240.03 | 4083958.26 | 7.78990E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.968E-04 | 0.00E+00 |
| 431 | ALL | 259278.30 | 4083983.30 | 6.51960E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.321E-04 | 0.00E+00 |
| 432 | ALL | 259136.50 | 4083874.19 | 1.10650E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.636E-04 | 0.00E+00 |
| 433 | ALL | 259146.90 | 4083859.07 | 1.04980E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.347E-04 | 0.00E+00 |
| 434 | ALL | 259153.04 | 4083843.01 | 1.00540E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.121E-04 | 0.00E+00 |
| 435 | ALL | 259181.39 | 4083875.14 | 9.64990E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.915E-04 | 0.00E+00 |
| 436 | ALL | 259278.25 | 4083934.67 | 6.92100E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.525E-04 | 0.00E+00 |
| 437 | ALL | 259286.28 | 4083919.55 | 6.81060E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.469E-04 | 0.00E+00 |
| 438 | ALL | 259258.88 | 4083901.13 | 7.54120E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.841E-04 | 0.00E+00 |
| 439 | ALL | 259219.19 | 4083874.19 | 8.56670E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.363E-04 | 0.00E+00 |
| 440 | ALL | 259290.53 | 4083907.74 | 6.76390E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.445E-04 | 0.00E+00 |
| 441 | ALL | 259286.28 | 4083919.55 | 6.81060E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.469E-04 | 0.00E+00 |
| 442 | ALL | 259290.53 | 4083907.74 | 6.76390E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.445E-04 | 0.00E+00 |
| 443 | ALL | 259220.60 | 4083817.02 | 8.11740E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.134E-04 | 0.00E+00 |
| 444 | ALL | 259245.17 | 4083818.91 | 7.63310E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.888E-04 | 0.00E+00 |
| 445 | ALL | 259278.25 | 4083840.65 | 7.07050E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.601E-04 | 0.00E+00 |
| 446 | ALL | 259309.43 | 4083860.96 | 6.46740E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.294E-04 | 0.00E+00 |
| 447 | ALL | 259321.72 | 4083822.70 | 6.22320E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.170E-04 | 0.00E+00 |
| 448 | ALL | 259297.42 | 4083771.34 | 6.40580E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.263E-04 | 0.00E+00 |
| 449 | ALL | 259328.16 | 4083772.65 | 5.97180E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.042E-04 | 0.00E+00 |
| 450 | ALL | 259209.79 | 4083758.26 | 7.55270E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.847E-04 | 0.00E+00 |
| 451 | ALL | 259098.67 | 4083698.32 | 7.28910E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.712E-04 | 0.00E+00 |
| 452 | ALL | 259175.62 | 4083673.70 | 6.38770E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.253E-04 | 0.00E+00 |
| 453 | ALL | 259178.70 | 4083648.30 | 5.89990E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.005E-04 | 0.00E+00 |
| 454 | ALL | 259175.62 | 4083607.52 | 5.19080E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.644E-04 | 0.00E+00 |
| 455 | ALL | 259255.64 | 4083650.61 | 5.56420E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.834E-04 | 0.00E+00 |
| 456 | ALL | 259254.87 | 4083599.06 | 4.88330E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.487E-04 | 0.00E+00 |
| 457 | ALL | 259301.81 | 4083715.25 | 5.91370E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.012E-04 | 0.00E+00 |
| 458 | ALL | 259299.50 | 4083656.00 | 5.34340E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.721E-04 | 0.00E+00 |
| 459 | ALL | 258884.76 | 4083606.75 | 4.09830E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.087E-04 | 0.00E+00 |
| 460 | ALL | 258922.14 | 4083520.12 | 2.97090E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.513E-04 | 0.00E+00 |
| 461 | ALL | 258873.46 | 4083521.06 | 2.72740E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.389E-04 | 0.00E+00 |
| 462 | ALL | 258831.41 | 4083523.90 | 2.54120E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.294E-04 | 0.00E+00 |
| 463 | ALL | 258896.62 | 4083543.27 | 3.13480E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.597E-04 | 0.00E+00 |
| 464 | ALL | 258884.76 | 4083606.75 | 4.09830E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.087E-04 | 0.00E+00 |
| 465 | ALL | 258844.64 | 4083588.64 | 3.48170E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.773E-04 | 0.00E+00 |
| 466 | ALL | 258879.61 | 4083590.53 | 3.76310E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.917E-04 | 0.00E+00 |
| 467 | ALL | 258859.29 | 4083606.12 | 3.89210E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.982E-04 | 0.00E+00 |
| 468 | ALL | 258909.38 | 4083593.84 | 4.03190E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.054E-04 | 0.00E+00 |
| 469 | ALL | 258926.86 | 4083669.92 | 5.98740E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.049E-04 | 0.00E+00 |
| 470 | ALL | 258924.03 | 4083638.26 | 5.09670E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.596E-04 | 0.00E+00 |
| 471 | ALL | 259224.41 | 4083564.62 | 4.48740E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.286E-04 | 0.00E+00 |
| 472 | ALL | 259174.70 | 4083526.03 | 3.95900E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.016E-04 | 0.00E+00 |
| 473 | ALL | 258768.08 | 4083878.27 | 1.71310E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.725E-04 | 0.00E+00 |
| 474 | ALL | 258815.83 | 4083880.24 | 1.84710E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.408E-04 | 0.00E+00 |
| 475 | ALL | 258898.26 | 4083873.04 | 1.79250E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.129E-04 | 0.00E+00 |
| 476 | ALL | 258854.43 | 4083876.97 | 1.84320E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.388E-04 | 0.00E+00 |
| 477 | ALL | 258934.24 | 4083871.73 | 1.73150E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.819E-04 | 0.00E+00 |
| 478 | ALL | 258760.89 | 4083832.48 | 1.20310E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.127E-04 | 0.00E+00 |
| 479 | ALL | 258760.89 | 4083778.84 | 8.32880E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.242E-04 | 0.00E+00 |
| 480 | ALL | 258759.58 | 4083718.01 | 5.68060E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.893E-04 | 0.00E+00 |
| 481 | ALL | 258345.05 | 4084976.54 | 2.16830E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.104E-04 | 0.00E+00 |

HARP2 - HRACalc (dated 22118) 12/25/2023 8:30:43 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
**********
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: HighEnd

**********
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 3.3

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 1.3
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

**********
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments.  The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True

Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

**********
INHALATION

Daily breathing rate: LongTerm24HR

**Worker Adjustment Factors**
Worker adjustment factors enabled: NO

**Fraction at time at home**
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

**********
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

**********
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

**********
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment.  Please see the input file for details.
Tier2 - What was changed: ED or start age changed

```
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: F:\Move\0029-0004\HARP (UNMIT)\hra\Unmit
ConCancerRisk.csv
Cancer risk total by receptor saved to: F:\Move\0029-0004\HARP (UNMIT)\hra\Unmit ConCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: F:\Move\0029-0004\HARP (UNMIT)\hra\Unmit
ConNCChronicRisk.csv
Chronic risk total by receptor saved to: F:\Move\0029-0004\HARP (UNMIT)\hra\Unmit
ConNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: F:\Move\0029-0004\HARP (UNMIT)\hra\Unmit
ConNCAcuteRisk.csv
Acute risk total by receptor saved to: F:\Move\0029-0004\HARP (UNMIT)\hra\Unmit ConNCAcuteRiskSumByRec.csv
HRA ran successfully
```

# Health Risk Assessment

## Mitigated Construction

# Bonadelle TM6467 Residential Project (Mitigated Construction - Tier 4 Scenario)

**Estimation of Annual Onsite Construction Emissions**

| | | |
|---|---|---|
| Start of Construction | 11/1/2024 | |
| End of Construction | 2/18/2028 | **Total** |
| Number of Days | 1,204 | 1,204 |
| Number of Hours | 28,896 | 28,896 |

**Size of the construction area source:** **59,919.7** **sq-meters**

| Run | Year | On-site Construction Activity | Tier 4 Mitigated On-site DPM (pounds) |
|---|---|---|---|
| Project Construction | 2024 | Demolition | 3.7565 |
| Project Construction | 2024 | Site Preparation | 0.9960 |
| Project Construction | 2024 | Grading | 2.1453 |
| Project Construction | 2025 | Grading | 3.1725 |
| Project Construction | 2025 | Paving | 2.0719 |
| Project Construction | 2025 | Trenching/Utilities | 15.0675 |
| Project Construction | 2025 | Building Construction | 6.6589 |
| Project Construction | 2026 | Building Construction | 25.5390 |
| Project Construction | 2027 | Building Construction | 23.8480 |
| Project Construction | 2028 | Building Construction | 1.2835 |
| Project Construction | 2028 | Architectural Coating | 0.3071 |

**Total Mitigated DPM (On-site)** 8.485E+01 pounds

**Factor in AERMOD to Account for 5 days per week/8 hours per day: 4.2**

| | | |
|---|---|---|
| Average Emission for Construction Site | 3.852E+04 | grams |
| | 3.703E-04 | grams/sec |
| | 6.180E-09 | grams/m2-sec |

| | |
|---|---|
| Pounds/Construction Period | 8.485E+01 |
| Pounds/Day | 7.047E-02 |
| Pounds/Hour | 2.936E-03 |
| Pounds/Year | 2.572E+01 |
| Years | 3.29863 |

# Bonadelle TM6467 Residential Project (Mitigated Construction - Tier 4 Scenario)

**Estimation of Annual Offsite Construction DPM Emissions (No Change Compared to Unmitigated Scenario)**

| | | |
|---|---|---|
| Start of Construction | 11/1/2024 | |
| End of Construction | 2/18/2028 | **Total** |
| Number of Days | 1,204 | 1,204 |
| Number of Hours | 28,896 | 28,896 |

| | 2024 Project Construction | 2024 Project Construction | 2024+2025 Project Construction | 2025 Project Construction | 2025 Project Construction | 2025-2028 Project Construction | 2028 Project Construction | |
|---|---|---|---|---|---|---|---|---|
| **Construction Trip Type** | Demolition | Site Preparation | Grading | Paving | Trenching /Utilities | Building Construction | Architectural Coating | **Total (pounds)** |
| Total (pounds) | 0.03990 | 0.00739 | 0.86910 | 0.014770972 | 0.11817 | 1.85244 | 0.01510 | **2.91688** |

| | **Haul Truck** | **Vendor Truck** | **Worker** | **Total** |
|---|---|---|---|---|
| Demolition (2024) | 300.00 | 80.00 | 19.00 | 399.00 |
| Site Preparation (2024) | 175.00 | 40.00 | 0.00 | 215.00 |
| Grading (2024+2025) | 600.00 | 120.00 | 625.00 | 1,345.00 |
| Paving (2025) | 300.00 | 80.00 | 0.00 | 380.00 |
| Trenching/Utilities (2025) | 1,600.00 | 640.00 | 0.00 | 2,240.00 |
| Building Construction (2025-2028) | 34,992.00 | 10,390.68 | 0.00 | 45,382.68 |
| Architectural Coating (2028) | 233.28 | 80.00 | 0.00 | 313.28 |
| **Total** | **38,200.28** | **11,430.68** | **644.00** | **50,274.96** |

| | **Haul Truck (pounds)** | **Vendor Truck (pounds)** | **Worker (pounds)** | **Total (pounds)** |
|---|---|---|---|---|
| **Total DPM** | 2.216E+00 | 6.632E-01 | 3.736E-02 | 2.917E+00 |

| | | | | |
|---|---|---|---|---|
| **Average Emissions** | | | | |
| Grams | 1.006E+03 | 3.011E+02 | 1.696E+01 | |
| Grams/sec | 9.673E-06 | 2.894E-06 | 1.631E-07 | |
| Default Distance | 20 | 4 | 7.7 | Default Vehicle Travel Distance in CalEEMod |
| **Vehicle Travel Distances in the Construction HRA (miles)** | | | | |
| Off-site Road Segment 1 | 0.44 | 0.44 | 0.44 | miles |
| **Trip Distribution (percent)** | | | | |
| Off-site Road Segment 1 | 100.0% | 100.0% | 100.0% | off-site |

| | | | | |
|---|---|---|---|---|
| **Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)** | | | **Total** | |
| Off-site Road Segment 1 | 2.113E-07 | 3.162E-07 | 9.254E-09 | 5.368E-07 |

| | Grams/sec | Pounds/Hour | Pounds/Day | Pounds/year | Tons/year |
|---|---|---|---|---|---|
| Off-site Road Segment 1 | 5.368E-07 | 4.260E-06 | 1.022E-04 | 3.732E-02 | 1.866E-05 |

# Health Risk Summary - Tier 4 Mitigated Construction (Summary of HARP2 Results)

**Bonadelle TM6467 Residential Project (Mitigated Construction - Tier 4 Scenario)**

| | RISK_SUM | Cancer Risk/million | MAXHI NonCancer Chronic | MAXHI Acute |
|---|---|---|---|---|
| Maximum Risk | 5.1385E-06 | 5.14 | 2.6171E-03 | 0.00E+00 |

| | X | Y |
|---|---|---|
| MEI UTM | 258521.86 | 4084223.21 |
| Lat/Long | 36°52'23.2"N | 119°42'33.1"W |
| Receptor # 310 | | |

*HARP - HRACalc v22118 12/26/2023 10:06:03 AM - Cancer Risk - Input File: F:\Move\0029-0004\HARP (T4)\hra\Tier 4 MitigatedHRAInput.hra
*HARP - HRACalc v22118 12/26/2023 10:06:03 AM - Chronic Risk - Input File: F:\Move\0029-0004\HARP (T4)\hra\Tier 4 MitigatedHRAInput.hra
*HARP - HRACalc v22118 12/26/2023 10:06:03 AM - Acute Risk - Input File: F:\Move\0029-0004\HARP (T4)\hra\Tier 4 MitigatedHRAInput.hra

| REC | GRP | X | Y | RISK_SUM | SCENARIO | MAXHI NonCancerChronic | MAXHI Acute |
|---|---|---|---|---|---|---|---|
| 1 | ALL | 258771.79 | 4084351.29 | 6.09430E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.104E-04 | 0.00E+00 |
| 2 | ALL | 258854.63 | 4084404.68 | 1.96740E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.002E-04 | 0.00E+00 |
| 3 | ALL | 258839.82 | 4084405.13 | 2.14070E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.090E-04 | 0.00E+00 |
| 4 | ALL | 258767.07 | 4084392.87 | 3.94950E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.012E-04 | 0.00E+00 |
| 5 | ALL | 259413.55 | 4084209.66 | 5.40210E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.751E-05 | 0.00E+00 |
| 6 | ALL | 259392.22 | 4084265.46 | 4.79210E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.441E-05 | 0.00E+00 |
| 7 | ALL | 259370.89 | 4084321.25 | 4.22600E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.152E-05 | 0.00E+00 |
| 8 | ALL | 259349.55 | 4084377.04 | 3.72800E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.899E-05 | 0.00E+00 |
| 9 | ALL | 259328.22 | 4084432.83 | 3.34200E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.702E-05 | 0.00E+00 |
| 10 | ALL | 259306.89 | 4084488.62 | 3.00090E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.528E-05 | 0.00E+00 |
| 11 | ALL | 259285.56 | 4084544.41 | 2.73280E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.392E-05 | 0.00E+00 |
| 12 | ALL | 259264.23 | 4084600.20 | 2.52390E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.286E-05 | 0.00E+00 |
| 13 | ALL | 259242.90 | 4084656.00 | 2.36090E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.202E-05 | 0.00E+00 |
| 14 | ALL | 259194.28 | 4084723.93 | 2.30760E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.175E-05 | 0.00E+00 |
| 15 | ALL | 259139.71 | 4084748.21 | 2.47760E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.262E-05 | 0.00E+00 |
| 16 | ALL | 259085.14 | 4084772.49 | 2.67220E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.361E-05 | 0.00E+00 |
| 17 | ALL | 259030.57 | 4084796.77 | 2.87150E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.463E-05 | 0.00E+00 |
| 18 | ALL | 258975.99 | 4084821.06 | 3.05810E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.558E-05 | 0.00E+00 |
| 19 | ALL | 258921.42 | 4084845.34 | 3.21900E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.640E-05 | 0.00E+00 |
| 20 | ALL | 258866.85 | 4084869.62 | 3.35080E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.707E-05 | 0.00E+00 |
| 21 | ALL | 258812.28 | 4084893.90 | 3.46120E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.763E-05 | 0.00E+00 |
| 22 | ALL | 258757.71 | 4084918.18 | 3.56010E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.813E-05 | 0.00E+00 |
| 23 | ALL | 259423.37 | 4084151.85 | 6.26100E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.189E-05 | 0.00E+00 |
| 24 | ALL | 259421.67 | 4084092.01 | 7.44450E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.792E-05 | 0.00E+00 |
| 25 | ALL | 259523.59 | 4084206.33 | 4.12080E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.099E-05 | 0.00E+00 |
| 26 | ALL | 259502.43 | 4084261.68 | 3.70480E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.887E-05 | 0.00E+00 |
| 27 | ALL | 259481.27 | 4084317.02 | 3.31480E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.688E-05 | 0.00E+00 |
| 28 | ALL | 259460.11 | 4084372.37 | 2.96450E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.510E-05 | 0.00E+00 |
| 29 | ALL | 259438.95 | 4084427.71 | 2.68460E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.367E-05 | 0.00E+00 |
| 30 | ALL | 259417.79 | 4084483.06 | 2.43090E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.238E-05 | 0.00E+00 |
| 31 | ALL | 259396.62 | 4084538.41 | 2.22560E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.134E-05 | 0.00E+00 |
| 32 | ALL | 259375.46 | 4084593.75 | 2.06210E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.050E-05 | 0.00E+00 |
| 33 | ALL | 259354.30 | 4084649.10 | 1.93210E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.841E-06 | 0.00E+00 |
| 34 | ALL | 259333.14 | 4084704.44 | 1.82840E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.312E-06 | 0.00E+00 |
| 35 | ALL | 259311.98 | 4084759.79 | 1.74480E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.886E-06 | 0.00E+00 |
| 36 | ALL | 259274.33 | 4084799.51 | 1.75640E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.945E-06 | 0.00E+00 |
| 37 | ALL | 259220.20 | 4084823.59 | 1.87470E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.548E-06 | 0.00E+00 |
| 38 | ALL | 259166.06 | 4084847.68 | 2.00670E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.022E-05 | 0.00E+00 |
| 39 | ALL | 259111.92 | 4084871.77 | 2.14460E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.092E-05 | 0.00E+00 |
| 40 | ALL | 259057.79 | 4084895.86 | 2.27920E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.161E-05 | 0.00E+00 |
| 41 | ALL | 259003.65 | 4084919.95 | 2.40050E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.223E-05 | 0.00E+00 |
| 42 | ALL | 258949.52 | 4084944.03 | 2.50190E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.274E-05 | 0.00E+00 |
| 43 | ALL | 258895.38 | 4084968.12 | 2.58330E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.316E-05 | 0.00E+00 |
| 44 | ALL | 258841.24 | 4084992.21 | 2.65050E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.350E-05 | 0.00E+00 |
| 45 | ALL | 258787.11 | 4085016.30 | 2.71150E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.381E-05 | 0.00E+00 |
| 46 | ALL | 258732.97 | 4085040.39 | 2.77210E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.412E-05 | 0.00E+00 |
| 47 | ALL | 259533.32 | 4084148.74 | 4.70140E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.394E-05 | 0.00E+00 |
| 48 | ALL | 259531.63 | 4084088.90 | 5.49610E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.799E-05 | 0.00E+00 |
| 49 | ALL | 258432.62 | 4084049.36 | 9.99410E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.090E-04 | 0.00E+00 |
| 50 | ALL | 258394.03 | 4084051.05 | 7.02970E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.580E-04 | 0.00E+00 |
| 51 | ALL | 258455.35 | 4084022.86 | 7.36620E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.752E-04 | 0.00E+00 |
| 52 | ALL | 258407.45 | 4084024.89 | 5.22490E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.661E-04 | 0.00E+00 |
| 53 | ALL | 258837.42 | 4083782.54 | 2.37070E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.207E-04 | 0.00E+00 |
| 54 | ALL | 258895.19 | 4083788.44 | 2.62400E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.336E-04 | 0.00E+00 |
| 55 | ALL | 258979.89 | 4083870.61 | 3.87840E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.975E-04 | 0.00E+00 |
| 56 | ALL | 258693.45 | 4083606.06 | 6.52190E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.322E-05 | 0.00E+00 |
| 57 | ALL | 258727.72 | 4083618.67 | 7.47090E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.805E-05 | 0.00E+00 |
| 58 | ALL | 258771.60 | 4083627.20 | 8.61470E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.388E-05 | 0.00E+00 |
| 59 | ALL | 258802.19 | 4083638.19 | 9.74160E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.962E-05 | 0.00E+00 |
| 60 | ALL | 258832.46 | 4083660.61 | 1.16660E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.942E-05 | 0.00E+00 |
| 61 | ALL | 258882.36 | 4083669.86 | 1.34310E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.841E-05 | 0.00E+00 |
| 62 | ALL | 258894.00 | 4083704.06 | 1.63840E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.345E-05 | 0.00E+00 |
| 63 | ALL | 258933.35 | 4083694.38 | 1.63920E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.349E-05 | 0.00E+00 |
| 64 | ALL | 258967.63 | 4083706.99 | 1.79860E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.161E-05 | 0.00E+00 |

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|---|---|---|---|---|---|---|---|
| 65 | ALL | 259001.90 | 4083719.61 | 1.93860E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.873E-05 | 0.00E+00 |
| 66 | ALL | 259048.89 | 4083777.14 | 2.43170E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.239E-04 | 0.00E+00 |
| 67 | ALL | 259082.91 | 4083805.09 | 2.56580E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.307E-04 | 0.00E+00 |
| 68 | ALL | 259078.00 | 4083822.40 | 2.72880E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.390E-04 | 0.00E+00 |
| 69 | ALL | 258659.18 | 4083593.44 | 5.75050E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.929E-05 | 0.00E+00 |
| 70 | ALL | 258620.59 | 4083595.13 | 5.36590E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.733E-05 | 0.00E+00 |
| 71 | ALL | 258582.00 | 4083596.83 | 5.03960E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.567E-05 | 0.00E+00 |
| 72 | ALL | 258543.41 | 4083598.52 | 4.77240E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.431E-05 | 0.00E+00 |
| 73 | ALL | 258504.82 | 4083600.21 | 4.56630E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.326E-05 | 0.00E+00 |
| 74 | ALL | 258466.22 | 4083601.90 | 4.42320E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.253E-05 | 0.00E+00 |
| 75 | ALL | 258427.63 | 4083603.60 | 4.35430E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.218E-05 | 0.00E+00 |
| 76 | ALL | 258389.04 | 4083605.29 | 4.44560E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.264E-05 | 0.00E+00 |
| 77 | ALL | 258698.48 | 4083526.75 | 4.76590E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.427E-05 | 0.00E+00 |
| 78 | ALL | 258715.65 | 4083527.38 | 4.93610E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.514E-05 | 0.00E+00 |
| 79 | ALL | 258759.76 | 4083522.35 | 5.27830E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.688E-05 | 0.00E+00 |
| 80 | ALL | 258794.89 | 4083535.28 | 5.97080E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.041E-05 | 0.00E+00 |
| 81 | ALL | 258830.03 | 4083548.22 | 6.77160E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.449E-05 | 0.00E+00 |
| 82 | ALL | 258865.16 | 4083561.15 | 7.69310E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.918E-05 | 0.00E+00 |
| 83 | ALL | 258900.29 | 4083574.08 | 8.71330E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.438E-05 | 0.00E+00 |
| 84 | ALL | 258935.43 | 4083587.02 | 9.78880E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.986E-05 | 0.00E+00 |
| 85 | ALL | 258970.56 | 4083599.95 | 1.09140E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.559E-05 | 0.00E+00 |
| 86 | ALL | 259005.70 | 4083612.89 | 1.20320E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.128E-05 | 0.00E+00 |
| 87 | ALL | 259040.83 | 4083625.82 | 1.30800E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.662E-05 | 0.00E+00 |
| 88 | ALL | 259075.96 | 4083638.76 | 1.39890E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.125E-05 | 0.00E+00 |
| 89 | ALL | 259104.34 | 4083715.55 | 1.85540E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.450E-05 | 0.00E+00 |
| 90 | ALL | 259172.18 | 4083718.97 | 1.75310E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.928E-05 | 0.00E+00 |
| 91 | ALL | 259186.67 | 4083749.30 | 1.85350E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.440E-05 | 0.00E+00 |
| 92 | ALL | 259201.16 | 4083815.52 | 2.04250E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.040E-04 | 0.00E+00 |
| 93 | ALL | 259180.70 | 4083813.74 | 2.14110E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.091E-04 | 0.00E+00 |
| 94 | ALL | 259189.52 | 4083854.46 | 2.21520E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.128E-04 | 0.00E+00 |
| 95 | ALL | 259208.10 | 4083891.91 | 2.14740E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.094E-04 | 0.00E+00 |
| 96 | ALL | 259247.03 | 4083917.32 | 1.87540E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.551E-05 | 0.00E+00 |
| 97 | ALL | 259253.30 | 4083964.35 | 1.76660E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.997E-05 | 0.00E+00 |
| 98 | ALL | 258656.61 | 4083462.55 | 3.56740E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.817E-05 | 0.00E+00 |
| 99 | ALL | 258621.02 | 4083463.50 | 3.40440E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.734E-05 | 0.00E+00 |
| 100 | ALL | 258582.43 | 4083465.19 | 3.26100E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.661E-05 | 0.00E+00 |
| 101 | ALL | 258543.83 | 4083466.88 | 3.14380E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.601E-05 | 0.00E+00 |
| 102 | ALL | 258505.24 | 4083468.57 | 3.05090E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.554E-05 | 0.00E+00 |
| 103 | ALL | 258466.65 | 4083470.27 | 2.98020E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.518E-05 | 0.00E+00 |
| 104 | ALL | 258428.06 | 4083471.96 | 2.93050E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.493E-05 | 0.00E+00 |
| 105 | ALL | 258389.47 | 4083473.65 | 2.89680E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.475E-05 | 0.00E+00 |
| 106 | ALL | 258685.31 | 4083386.82 | 2.95710E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.506E-05 | 0.00E+00 |
| 107 | ALL | 258721.07 | 4083399.98 | 3.23400E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.647E-05 | 0.00E+00 |
| 108 | ALL | 258756.84 | 4083413.15 | 3.56210E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.814E-05 | 0.00E+00 |
| 109 | ALL | 258801.60 | 4083413.40 | 3.84310E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.957E-05 | 0.00E+00 |
| 110 | ALL | 258841.28 | 4083456.31 | 4.79040E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.440E-05 | 0.00E+00 |
| 111 | ALL | 258864.13 | 4083452.65 | 4.92600E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.509E-05 | 0.00E+00 |
| 112 | ALL | 258906.01 | 4083454.15 | 5.33350E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.716E-05 | 0.00E+00 |
| 113 | ALL | 258926.22 | 4083457.88 | 5.60420E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.854E-05 | 0.00E+00 |
| 114 | ALL | 258978.10 | 4083529.93 | 8.14290E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.147E-05 | 0.00E+00 |
| 115 | ALL | 259025.53 | 4083531.43 | 8.71030E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.436E-05 | 0.00E+00 |
| 116 | ALL | 259060.74 | 4083450.71 | 6.64910E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.386E-05 | 0.00E+00 |
| 117 | ALL | 259078.73 | 4083531.65 | 9.20330E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.687E-05 | 0.00E+00 |
| 118 | ALL | 259114.49 | 4083544.82 | 9.92160E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.053E-05 | 0.00E+00 |
| 119 | ALL | 259150.26 | 4083557.99 | 1.05410E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.369E-05 | 0.00E+00 |
| 120 | ALL | 259201.73 | 4083605.88 | 1.22990E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.264E-05 | 0.00E+00 |
| 121 | ALL | 259217.44 | 4083640.60 | 1.34870E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.869E-05 | 0.00E+00 |
| 122 | ALL | 259233.15 | 4083675.33 | 1.45490E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.410E-05 | 0.00E+00 |
| 123 | ALL | 259248.86 | 4083710.05 | 1.53810E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.834E-05 | 0.00E+00 |
| 124 | ALL | 259239.07 | 4083760.47 | 1.71980E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.759E-05 | 0.00E+00 |
| 125 | ALL | 259280.28 | 4083779.50 | 1.61350E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.218E-05 | 0.00E+00 |
| 126 | ALL | 259287.49 | 4083821.31 | 1.63970E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.351E-05 | 0.00E+00 |
| 127 | ALL | 259313.59 | 4083842.80 | 1.53410E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.813E-05 | 0.00E+00 |
| 128 | ALL | 259305.21 | 4083878.94 | 1.56760E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.984E-05 | 0.00E+00 |
| 129 | ALL | 259298.24 | 4083891.93 | 1.59550E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.126E-05 | 0.00E+00 |
| 130 | ALL | 259358.83 | 4083953.11 | 1.22980E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.264E-05 | 0.00E+00 |
| 131 | ALL | 259374.54 | 4083987.84 | 1.10200E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.613E-05 | 0.00E+00 |
| 132 | ALL | 259390.25 | 4084022.56 | 9.75200E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.967E-05 | 0.00E+00 |
| 133 | ALL | 259405.96 | 4084057.28 | 8.54840E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.354E-05 | 0.00E+00 |
| 134 | ALL | 258649.54 | 4083373.65 | 2.72530E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.388E-05 | 0.00E+00 |
| 135 | ALL | 258610.95 | 4083375.34 | 2.62190E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.335E-05 | 0.00E+00 |
| 136 | ALL | 258572.36 | 4083377.04 | 2.53450E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.291E-05 | 0.00E+00 |
| 137 | ALL | 258533.77 | 4083378.73 | 2.45990E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.253E-05 | 0.00E+00 |
| 138 | ALL | 258495.17 | 4083380.42 | 2.39480E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.220E-05 | 0.00E+00 |
| 139 | ALL | 258456.58 | 4083382.12 | 2.33600E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.190E-05 | 0.00E+00 |
| 140 | ALL | 258417.99 | 4083383.81 | 2.28030E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.161E-05 | 0.00E+00 |
| 141 | ALL | 258379.40 | 4083385.50 | 2.22790E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.135E-05 | 0.00E+00 |
| 142 | ALL | 258680.97 | 4083277.10 | 2.20990E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.126E-05 | 0.00E+00 |
| 143 | ALL | 258717.22 | 4083290.45 | 2.37960E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.212E-05 | 0.00E+00 |
| 144 | ALL | 258753.47 | 4083303.79 | 2.57870E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.313E-05 | 0.00E+00 |
| 145 | ALL | 258789.71 | 4083317.14 | 2.81060E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.431E-05 | 0.00E+00 |
| 146 | ALL | 258825.96 | 4083330.48 | 3.08240E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.570E-05 | 0.00E+00 |
| 147 | ALL | 258862.21 | 4083343.83 | 3.39180E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.728E-05 | 0.00E+00 |
| 148 | ALL | 258898.46 | 4083357.17 | 3.75210E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.911E-05 | 0.00E+00 |

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|---|---|---|---|---|---|---|---|
| 149 | ALL | 258934.71 | 4083370.52 | 4.15350E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.115E-05 | 0.00E+00 |
| 150 | ALL | 258970.96 | 4083383.86 | 4.60630E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.346E-05 | 0.00E+00 |
| 151 | ALL | 259007.21 | 4083397.20 | 5.10230E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.599E-05 | 0.00E+00 |
| 152 | ALL | 259043.46 | 4083410.55 | 5.63210E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.869E-05 | 0.00E+00 |
| 153 | ALL | 259079.70 | 4083423.89 | 6.17460E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.145E-05 | 0.00E+00 |
| 154 | ALL | 259115.95 | 4083437.24 | 6.73100E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.428E-05 | 0.00E+00 |
| 155 | ALL | 259152.20 | 4083450.58 | 7.27720E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.706E-05 | 0.00E+00 |
| 156 | ALL | 259188.45 | 4083463.93 | 7.78770E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.966E-05 | 0.00E+00 |
| 157 | ALL | 259224.70 | 4083477.27 | 8.23860E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.196E-05 | 0.00E+00 |
| 158 | ALL | 259276.87 | 4083525.81 | 9.51460E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.846E-05 | 0.00E+00 |
| 159 | ALL | 259292.79 | 4083561.00 | 1.03780E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.286E-05 | 0.00E+00 |
| 160 | ALL | 259308.72 | 4083596.20 | 1.11690E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.688E-05 | 0.00E+00 |
| 161 | ALL | 259324.64 | 4083631.39 | 1.18360E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.028E-05 | 0.00E+00 |
| 162 | ALL | 259340.56 | 4083666.58 | 1.23300E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.280E-05 | 0.00E+00 |
| 163 | ALL | 259356.48 | 4083701.78 | 1.26010E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.418E-05 | 0.00E+00 |
| 164 | ALL | 259372.41 | 4083736.97 | 1.26200E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.428E-05 | 0.00E+00 |
| 165 | ALL | 259388.33 | 4083772.16 | 1.24100E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.320E-05 | 0.00E+00 |
| 166 | ALL | 259404.25 | 4083807.35 | 1.19650E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.094E-05 | 0.00E+00 |
| 167 | ALL | 259420.17 | 4083842.55 | 1.13340E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.773E-05 | 0.00E+00 |
| 168 | ALL | 259436.10 | 4083877.74 | 1.05690E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.383E-05 | 0.00E+00 |
| 169 | ALL | 259452.02 | 4083912.93 | 9.71160E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.946E-05 | 0.00E+00 |
| 170 | ALL | 259467.94 | 4083948.13 | 8.81070E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.487E-05 | 0.00E+00 |
| 171 | ALL | 259483.86 | 4083983.32 | 7.91000E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.029E-05 | 0.00E+00 |
| 172 | ALL | 259499.79 | 4084018.51 | 7.04320E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.587E-05 | 0.00E+00 |
| 173 | ALL | 259515.71 | 4084053.70 | 6.23400E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.175E-05 | 0.00E+00 |
| 174 | ALL | 258644.72 | 4083263.76 | 2.06510E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.052E-05 | 0.00E+00 |
| 175 | ALL | 258606.13 | 4083265.45 | 2.00210E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.020E-05 | 0.00E+00 |
| 176 | ALL | 258567.54 | 4083267.14 | 1.94770E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.920E-06 | 0.00E+00 |
| 177 | ALL | 258528.95 | 4083268.84 | 1.90080E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.681E-06 | 0.00E+00 |
| 178 | ALL | 258490.35 | 4083270.53 | 1.85940E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.470E-06 | 0.00E+00 |
| 179 | ALL | 258451.76 | 4083272.22 | 1.82250E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.282E-06 | 0.00E+00 |
| 180 | ALL | 258413.17 | 4083273.91 | 1.78910E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.112E-06 | 0.00E+00 |
| 181 | ALL | 258374.58 | 4083275.61 | 1.75860E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.957E-06 | 0.00E+00 |
| 182 | ALL | 258427.55 | 4084018.70 | 5.59660E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.850E-04 | 0.00E+00 |
| 183 | ALL | 257682.15 | 4084127.78 | 5.55200E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.828E-05 | 0.00E+00 |
| 184 | ALL | 257701.63 | 4084074.74 | 5.36170E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.731E-05 | 0.00E+00 |
| 185 | ALL | 257721.10 | 4084021.70 | 5.19120E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.644E-05 | 0.00E+00 |
| 186 | ALL | 257740.57 | 4083968.66 | 5.00870E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.551E-05 | 0.00E+00 |
| 187 | ALL | 257760.04 | 4083915.61 | 4.78210E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.436E-05 | 0.00E+00 |
| 188 | ALL | 257779.51 | 4083862.57 | 4.49810E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.291E-05 | 0.00E+00 |
| 189 | ALL | 257798.98 | 4083809.53 | 4.16460E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.121E-05 | 0.00E+00 |
| 190 | ALL | 257818.45 | 4083756.49 | 3.80290E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.937E-05 | 0.00E+00 |
| 191 | ALL | 257837.92 | 4083703.45 | 3.43660E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.750E-05 | 0.00E+00 |
| 192 | ALL | 257857.39 | 4083650.41 | 3.08540E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.571E-05 | 0.00E+00 |
| 193 | ALL | 257892.74 | 4083611.97 | 2.88530E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.470E-05 | 0.00E+00 |
| 194 | ALL | 257943.97 | 4083588.13 | 2.80670E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.429E-05 | 0.00E+00 |
| 195 | ALL | 257995.20 | 4083564.29 | 2.72150E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.386E-05 | 0.00E+00 |
| 196 | ALL | 258147.34 | 4083482.78 | 2.42010E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.233E-05 | 0.00E+00 |
| 197 | ALL | 258200.11 | 4083468.94 | 2.41770E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.231E-05 | 0.00E+00 |
| 198 | ALL | 258251.33 | 4083445.10 | 2.36160E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.203E-05 | 0.00E+00 |
| 199 | ALL | 258302.56 | 4083421.26 | 2.30650E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.175E-05 | 0.00E+00 |
| 200 | ALL | 257673.55 | 4084182.53 | 5.92540E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.018E-05 | 0.00E+00 |
| 201 | ALL | 257675.80 | 4084238.99 | 6.52210E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.322E-05 | 0.00E+00 |
| 202 | ALL | 257572.23 | 4084132.20 | 4.52910E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.307E-05 | 0.00E+00 |
| 203 | ALL | 257591.68 | 4084079.22 | 4.39110E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.236E-05 | 0.00E+00 |
| 204 | ALL | 257611.13 | 4084026.24 | 4.27410E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.177E-05 | 0.00E+00 |
| 205 | ALL | 257630.58 | 4083973.26 | 4.16070E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.119E-05 | 0.00E+00 |
| 206 | ALL | 257650.02 | 4083920.28 | 4.02810E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.052E-05 | 0.00E+00 |
| 207 | ALL | 257669.47 | 4083867.30 | 3.85880E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.965E-05 | 0.00E+00 |
| 208 | ALL | 257688.92 | 4083814.32 | 3.64820E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.858E-05 | 0.00E+00 |
| 209 | ALL | 257708.37 | 4083761.35 | 3.40430E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.734E-05 | 0.00E+00 |
| 210 | ALL | 257727.82 | 4083708.37 | 3.14080E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.600E-05 | 0.00E+00 |
| 211 | ALL | 257747.26 | 4083655.39 | 2.87260E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.463E-05 | 0.00E+00 |
| 212 | ALL | 257766.71 | 4083602.41 | 2.61180E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.330E-05 | 0.00E+00 |
| 213 | ALL | 257811.74 | 4083537.52 | 2.33950E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.192E-05 | 0.00E+00 |
| 214 | ALL | 257862.91 | 4083513.71 | 2.27780E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.160E-05 | 0.00E+00 |
| 215 | ALL | 257914.08 | 4083489.90 | 2.21030E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.126E-05 | 0.00E+00 |
| 216 | ALL | 257965.25 | 4083466.09 | 2.14190E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.091E-05 | 0.00E+00 |
| 217 | ALL | 258016.41 | 4083442.28 | 2.07600E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.057E-05 | 0.00E+00 |
| 218 | ALL | 258067.58 | 4083418.47 | 2.01550E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.027E-05 | 0.00E+00 |
| 219 | ALL | 258118.75 | 4083394.66 | 1.96130E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.989E-06 | 0.00E+00 |
| 220 | ALL | 258169.91 | 4083370.85 | 1.91350E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.746E-06 | 0.00E+00 |
| 221 | ALL | 258221.08 | 4083347.04 | 1.87090E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.529E-06 | 0.00E+00 |
| 222 | ALL | 258272.25 | 4083323.23 | 1.83160E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.328E-06 | 0.00E+00 |
| 223 | ALL | 258323.41 | 4083299.42 | 1.79420E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.138E-06 | 0.00E+00 |
| 224 | ALL | 257563.63 | 4084186.92 | 4.79760E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.443E-05 | 0.00E+00 |
| 225 | ALL | 257565.89 | 4084243.38 | 5.22190E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.660E-05 | 0.00E+00 |
| 226 | ALL | 258382.28 | 4084295.95 | 1.47040E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.489E-04 | 0.00E+00 |
| 227 | ALL | 258398.86 | 4084935.93 | 5.57120E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.838E-05 | 0.00E+00 |
| 228 | ALL | 258363.89 | 4084922.61 | 6.02850E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.070E-05 | 0.00E+00 |
| 229 | ALL | 258328.92 | 4084909.29 | 6.47380E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.297E-05 | 0.00E+00 |
| 230 | ALL | 258293.94 | 4084895.97 | 6.92650E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.528E-05 | 0.00E+00 |
| 231 | ALL | 258258.97 | 4084882.66 | 7.37410E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.756E-05 | 0.00E+00 |
| 232 | ALL | 258224.00 | 4084869.34 | 7.80570E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.976E-05 | 0.00E+00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 233 | ALL | 258189.03 | 4084856.02 | 8.21160E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.182E-05 | 0.00E+00 |
| 234 | ALL | 258154.05 | 4084842.70 | 8.58550E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.373E-05 | 0.00E+00 |
| 235 | ALL | 258119.08 | 4084829.39 | 8.92250E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.544E-05 | 0.00E+00 |
| 236 | ALL | 258084.11 | 4084816.07 | 9.21800E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.695E-05 | 0.00E+00 |
| 237 | ALL | 258049.14 | 4084802.75 | 9.46540E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.821E-05 | 0.00E+00 |
| 238 | ALL | 258014.16 | 4084789.43 | 9.65750E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.919E-05 | 0.00E+00 |
| 239 | ALL | 257979.19 | 4084776.12 | 9.78790E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.985E-05 | 0.00E+00 |
| 240 | ALL | 257944.22 | 4084762.80 | 9.85400E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.019E-05 | 0.00E+00 |
| 241 | ALL | 257893.68 | 4084715.45 | 1.04320E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.313E-05 | 0.00E+00 |
| 242 | ALL | 257878.12 | 4084681.42 | 1.09710E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.588E-05 | 0.00E+00 |
| 243 | ALL | 257862.56 | 4084647.38 | 1.14070E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.810E-05 | 0.00E+00 |
| 244 | ALL | 257846.99 | 4084613.35 | 1.17000E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.959E-05 | 0.00E+00 |
| 245 | ALL | 257831.43 | 4084579.32 | 1.18390E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.030E-05 | 0.00E+00 |
| 246 | ALL | 257815.87 | 4084545.28 | 1.18030E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.012E-05 | 0.00E+00 |
| 247 | ALL | 257800.30 | 4084511.25 | 1.15870E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.901E-05 | 0.00E+00 |
| 248 | ALL | 257784.74 | 4084477.22 | 1.11970E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.703E-05 | 0.00E+00 |
| 249 | ALL | 257769.18 | 4084443.19 | 1.06500E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.424E-05 | 0.00E+00 |
| 250 | ALL | 257753.61 | 4084409.15 | 1.00080E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.097E-05 | 0.00E+00 |
| 251 | ALL | 257738.05 | 4084375.12 | 9.29330E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.733E-05 | 0.00E+00 |
| 252 | ALL | 257722.49 | 4084341.09 | 8.56060E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.360E-05 | 0.00E+00 |
| 253 | ALL | 257706.93 | 4084307.06 | 7.83160E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.989E-05 | 0.00E+00 |
| 254 | ALL | 257691.36 | 4084273.02 | 7.14470E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.639E-05 | 0.00E+00 |
| 255 | ALL | 258433.83 | 4084949.25 | 5.16350E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.630E-05 | 0.00E+00 |
| 256 | ALL | 258472.31 | 4084948.28 | 4.96550E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.529E-05 | 0.00E+00 |
| 257 | ALL | 258510.78 | 4084947.31 | 4.75890E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.424E-05 | 0.00E+00 |
| 258 | ALL | 258549.25 | 4084946.34 | 4.54400E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.314E-05 | 0.00E+00 |
| 259 | ALL | 258587.72 | 4084945.37 | 4.32190E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.201E-05 | 0.00E+00 |
| 260 | ALL | 258626.19 | 4084944.40 | 4.09570E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.086E-05 | 0.00E+00 |
| 261 | ALL | 258664.66 | 4084943.43 | 3.87040E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.971E-05 | 0.00E+00 |
| 262 | ALL | 258703.13 | 4084942.47 | 3.65170E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.860E-05 | 0.00E+00 |
| 263 | ALL | 258401.16 | 4085045.71 | 4.09820E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.087E-05 | 0.00E+00 |
| 264 | ALL | 258365.71 | 4085032.22 | 4.38040E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.231E-05 | 0.00E+00 |
| 265 | ALL | 258330.27 | 4085018.72 | 4.68000E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.384E-05 | 0.00E+00 |
| 266 | ALL | 258294.82 | 4085005.22 | 5.01040E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.552E-05 | 0.00E+00 |
| 267 | ALL | 258259.38 | 4084991.72 | 5.33240E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.716E-05 | 0.00E+00 |
| 268 | ALL | 258223.93 | 4084978.23 | 5.65280E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.879E-05 | 0.00E+00 |
| 269 | ALL | 258188.49 | 4084964.73 | 5.96710E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.039E-05 | 0.00E+00 |
| 270 | ALL | 258153.04 | 4084951.23 | 6.26890E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.193E-05 | 0.00E+00 |
| 271 | ALL | 258117.60 | 4084937.73 | 6.55300E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.338E-05 | 0.00E+00 |
| 272 | ALL | 258082.15 | 4084924.23 | 6.81600E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.471E-05 | 0.00E+00 |
| 273 | ALL | 258046.71 | 4084910.74 | 7.05500E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.593E-05 | 0.00E+00 |
| 274 | ALL | 258011.26 | 4084897.24 | 7.26780E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.702E-05 | 0.00E+00 |
| 275 | ALL | 257975.82 | 4084883.74 | 7.45040E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.795E-05 | 0.00E+00 |
| 276 | ALL | 257940.37 | 4084870.24 | 7.59990E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.871E-05 | 0.00E+00 |
| 277 | ALL | 257904.93 | 4084856.75 | 7.71310E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.928E-05 | 0.00E+00 |
| 278 | ALL | 257869.48 | 4084843.25 | 7.78860E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.967E-05 | 0.00E+00 |
| 279 | ALL | 257818.26 | 4084795.26 | 8.27230E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.213E-05 | 0.00E+00 |
| 280 | ALL | 257802.49 | 4084760.77 | 8.68690E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.424E-05 | 0.00E+00 |
| 281 | ALL | 257786.72 | 4084726.27 | 9.04890E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.609E-05 | 0.00E+00 |
| 282 | ALL | 257770.94 | 4084691.78 | 9.34530E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.760E-05 | 0.00E+00 |
| 283 | ALL | 257755.17 | 4084657.29 | 9.56180E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.870E-05 | 0.00E+00 |
| 284 | ALL | 257739.39 | 4084622.80 | 9.64210E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.911E-05 | 0.00E+00 |
| 285 | ALL | 257723.62 | 4084588.30 | 9.59890E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.889E-05 | 0.00E+00 |
| 286 | ALL | 257707.85 | 4084553.81 | 9.42950E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.803E-05 | 0.00E+00 |
| 287 | ALL | 257692.07 | 4084519.32 | 9.14100E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.656E-05 | 0.00E+00 |
| 288 | ALL | 257676.30 | 4084484.83 | 8.75010E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.457E-05 | 0.00E+00 |
| 289 | ALL | 257660.53 | 4084450.33 | 8.28210E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.218E-05 | 0.00E+00 |
| 290 | ALL | 257644.75 | 4084415.84 | 7.76390E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.954E-05 | 0.00E+00 |
| 291 | ALL | 257628.98 | 4084381.35 | 7.22140E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.678E-05 | 0.00E+00 |
| 292 | ALL | 257613.21 | 4084346.85 | 6.67550E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.400E-05 | 0.00E+00 |
| 293 | ALL | 257597.43 | 4084312.36 | 6.15150E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.133E-05 | 0.00E+00 |
| 294 | ALL | 257581.66 | 4084277.87 | 5.66530E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.885E-05 | 0.00E+00 |
| 295 | ALL | 258436.60 | 4085059.21 | 3.83120E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.951E-05 | 0.00E+00 |
| 296 | ALL | 258475.07 | 4085058.24 | 3.69380E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.881E-05 | 0.00E+00 |
| 297 | ALL | 258513.55 | 4085057.27 | 3.55090E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.809E-05 | 0.00E+00 |
| 298 | ALL | 258552.02 | 4085056.31 | 3.40280E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.733E-05 | 0.00E+00 |
| 299 | ALL | 258590.49 | 4085055.34 | 3.25100E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.656E-05 | 0.00E+00 |
| 300 | ALL | 258628.96 | 4085054.37 | 3.09800E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.578E-05 | 0.00E+00 |
| 301 | ALL | 258667.43 | 4085053.40 | 2.94740E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.501E-05 | 0.00E+00 |
| 302 | ALL | 258404.04 | 4084257.27 | 2.39130E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.218E-03 | 0.00E+00 |
| 303 | ALL | 258415.08 | 4084289.21 | 1.72030E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.761E-04 | 0.00E+00 |
| 304 | ALL | 258414.69 | 4084274.53 | 1.98260E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.010E-03 | 0.00E+00 |
| 305 | ALL | 258429.94 | 4084296.83 | 1.69430E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.629E-04 | 0.00E+00 |
| 306 | ALL | 258441.68 | 4084257.32 | 2.58730E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.318E-03 | 0.00E+00 |
| 307 | ALL | 258519.90 | 4084270.62 | 3.60240E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.835E-03 | 0.00E+00 |
| 308 | ALL | 258532.02 | 4084270.62 | 4.19700E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.138E-03 | 0.00E+00 |
| 309 | ALL | 258539.83 | 4084255.54 | 4.83850E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.464E-03 | 0.00E+00 |
| 310 | ALL | 258521.86 | 4084223.21 | 5.13850E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.617E-03 | 0.00E+00 |
| 311 | ALL | 258781.30 | 4084394.27 | 3.48670E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.776E-04 | 0.00E+00 |
| 312 | ALL | 258796.19 | 4084395.23 | 3.09080E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.574E-04 | 0.00E+00 |
| 313 | ALL | 258857.92 | 4084341.90 | 3.12510E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.592E-04 | 0.00E+00 |
| 314 | ALL | 258381.67 | 4084021.46 | 4.15390E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.116E-04 | 0.00E+00 |
| 315 | ALL | 258309.03 | 4084063.67 | 4.33540E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.208E-04 | 0.00E+00 |
| 316 | ALL | 258300.45 | 4084056.72 | 3.83490E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.953E-04 | 0.00E+00 |

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|---|---|---|---|---|---|---|---|
| 317 | ALL | 258297.18 | 4084048.35 | 3.48030E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.773E-04 | 0.00E+00 |
| 318 | ALL | 258532.20 | 4083943.49 | 3.91480E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.994E-04 | 0.00E+00 |
| 319 | ALL | 258531.59 | 4083928.98 | 3.34670E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.705E-04 | 0.00E+00 |
| 320 | ALL | 258548.95 | 4083919.18 | 3.26210E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.661E-04 | 0.00E+00 |
| 321 | ALL | 258310.01 | 4084835.46 | 8.39650E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.276E-05 | 0.00E+00 |
| 322 | ALL | 258327.51 | 4084834.54 | 8.32800E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.242E-05 | 0.00E+00 |
| 323 | ALL | 258800.04 | 4083832.11 | 3.09460E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.576E-04 | 0.00E+00 |
| 324 | ALL | 258819.84 | 4083833.03 | 3.20550E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.633E-04 | 0.00E+00 |
| 325 | ALL | 258837.33 | 4083829.81 | 3.20600E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.633E-04 | 0.00E+00 |
| 326 | ALL | 258798.66 | 4083787.91 | 2.29530E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.169E-04 | 0.00E+00 |
| 327 | ALL | 258816.61 | 4083789.29 | 2.39210E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.218E-04 | 0.00E+00 |
| 328 | ALL | 258875.08 | 4083784.69 | 2.52230E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.285E-04 | 0.00E+00 |
| 329 | ALL | 258851.14 | 4083784.69 | 2.45030E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.248E-04 | 0.00E+00 |
| 330 | ALL | 258914.21 | 4083783.77 | 2.58720E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.318E-04 | 0.00E+00 |
| 331 | ALL | 258856.20 | 4083828.88 | 3.24600E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.653E-04 | 0.00E+00 |
| 332 | ALL | 258876.46 | 4083830.73 | 3.32640E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.694E-04 | 0.00E+00 |
| 333 | ALL | 258898.10 | 4083827.96 | 3.30130E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.681E-04 | 0.00E+00 |
| 334 | ALL | 258915.44 | 4083822.94 | 3.21750E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.639E-04 | 0.00E+00 |
| 335 | ALL | 258931.54 | 4083824.89 | 3.24950E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.655E-04 | 0.00E+00 |
| 336 | ALL | 258953.60 | 4083825.45 | 3.23410E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.647E-04 | 0.00E+00 |
| 337 | ALL | 258970.84 | 4083826.87 | 3.22030E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.640E-04 | 0.00E+00 |
| 338 | ALL | 258993.46 | 4083824.33 | 3.11530E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.587E-04 | 0.00E+00 |
| 339 | ALL | 258930.98 | 4083783.33 | 2.59970E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.324E-04 | 0.00E+00 |
| 340 | ALL | 258950.49 | 4083783.61 | 2.61500E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.332E-04 | 0.00E+00 |
| 341 | ALL | 258972.03 | 4083780.69 | 2.57670E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.312E-04 | 0.00E+00 |
| 342 | ALL | 259008.61 | 4083779.36 | 2.52940E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.288E-04 | 0.00E+00 |
| 343 | ALL | 258989.99 | 4083781.69 | 2.57770E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.313E-04 | 0.00E+00 |
| 344 | ALL | 259010.28 | 4083825.59 | 3.07170E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.565E-04 | 0.00E+00 |
| 345 | ALL | 259031.90 | 4083822.93 | 2.95250E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.504E-04 | 0.00E+00 |
| 346 | ALL | 259027.91 | 4083781.35 | 2.51830E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.283E-04 | 0.00E+00 |
| 347 | ALL | 258997.31 | 4083873.16 | 3.79610E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.933E-04 | 0.00E+00 |
| 348 | ALL | 259017.93 | 4083871.16 | 3.61110E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.839E-04 | 0.00E+00 |
| 349 | ALL | 259033.23 | 4083867.17 | 3.44470E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.754E-04 | 0.00E+00 |
| 350 | ALL | 259060.17 | 4083870.83 | 3.26590E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.663E-04 | 0.00E+00 |
| 351 | ALL | 259092.77 | 4083789.00 | 2.40120E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.223E-04 | 0.00E+00 |
| 352 | ALL | 258799.98 | 4083743.62 | 1.74410E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.883E-05 | 0.00E+00 |
| 353 | ALL | 258817.23 | 4083744.18 | 1.80920E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.214E-05 | 0.00E+00 |
| 354 | ALL | 258838.72 | 4083742.49 | 1.86330E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.490E-05 | 0.00E+00 |
| 355 | ALL | 258854.27 | 4083743.05 | 1.91880E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.773E-05 | 0.00E+00 |
| 356 | ALL | 258873.78 | 4083741.92 | 1.96300E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.998E-05 | 0.00E+00 |
| 357 | ALL | 258891.87 | 4083741.07 | 2.00060E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.019E-04 | 0.00E+00 |
| 358 | ALL | 258909.12 | 4083742.77 | 2.05880E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.049E-04 | 0.00E+00 |
| 359 | ALL | 258927.50 | 4083741.92 | 2.08390E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.061E-04 | 0.00E+00 |
| 360 | ALL | 258946.72 | 4083741.64 | 2.10950E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.074E-04 | 0.00E+00 |
| 361 | ALL | 258965.10 | 4083740.79 | 2.11990E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.080E-04 | 0.00E+00 |
| 362 | ALL | 258984.89 | 4083739.94 | 2.12380E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.082E-04 | 0.00E+00 |
| 363 | ALL | 259002.70 | 4083739.09 | 2.11910E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.079E-04 | 0.00E+00 |
| 364 | ALL | 258797.44 | 4083705.16 | 1.38370E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.047E-05 | 0.00E+00 |
| 365 | ALL | 258817.51 | 4083704.60 | 1.43960E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.332E-05 | 0.00E+00 |
| 366 | ALL | 258839.00 | 4083706.01 | 1.51180E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.700E-05 | 0.00E+00 |
| 367 | ALL | 258855.96 | 4083705.73 | 1.55590E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.924E-05 | 0.00E+00 |
| 368 | ALL | 258877.74 | 4083702.62 | 1.58600E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.077E-05 | 0.00E+00 |
| 369 | ALL | 258912.45 | 4083702.25 | 1.66430E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.477E-05 | 0.00E+00 |
| 370 | ALL | 258949.94 | 4083702.25 | 1.73330E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.828E-05 | 0.00E+00 |
| 371 | ALL | 258984.07 | 4083700.32 | 1.76020E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.965E-05 | 0.00E+00 |
| 372 | ALL | 259002.81 | 4083699.84 | 1.77160E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.023E-05 | 0.00E+00 |
| 373 | ALL | 258898.77 | 4083648.91 | 1.24160E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.323E-05 | 0.00E+00 |
| 374 | ALL | 258627.60 | 4083540.66 | 4.42870E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.256E-05 | 0.00E+00 |
| 375 | ALL | 258513.83 | 4083537.00 | 3.75900E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.915E-05 | 0.00E+00 |
| 376 | ALL | 258774.97 | 4083660.95 | 1.03060E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.249E-05 | 0.00E+00 |
| 377 | ALL | 258769.92 | 4083651.33 | 9.69200E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.936E-05 | 0.00E+00 |
| 378 | ALL | 258774.97 | 4083637.63 | 9.14270E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.656E-05 | 0.00E+00 |
| 379 | ALL | 258773.05 | 4083614.79 | 8.13610E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.144E-05 | 0.00E+00 |
| 380 | ALL | 258800.45 | 4083672.96 | 1.16390E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.928E-05 | 0.00E+00 |
| 381 | ALL | 258800.93 | 4083660.95 | 1.09240E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.564E-05 | 0.00E+00 |
| 382 | ALL | 258800.45 | 4083651.81 | 1.03990E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.297E-05 | 0.00E+00 |
| 383 | ALL | 258832.17 | 4083650.61 | 1.10640E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.635E-05 | 0.00E+00 |
| 384 | ALL | 258833.86 | 4083672.48 | 1.24630E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.348E-05 | 0.00E+00 |
| 385 | ALL | 258832.90 | 4083638.59 | 1.04210E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.308E-05 | 0.00E+00 |
| 386 | ALL | 258853.33 | 4083670.80 | 1.28300E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.534E-05 | 0.00E+00 |
| 387 | ALL | 258851.89 | 4083659.98 | 1.20860E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.155E-05 | 0.00E+00 |
| 388 | ALL | 258850.45 | 4083648.21 | 1.13370E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.774E-05 | 0.00E+00 |
| 389 | ALL | 258899.25 | 4083659.25 | 1.30900E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.667E-05 | 0.00E+00 |
| 390 | ALL | 258879.12 | 4083659.84 | 1.26880E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.462E-05 | 0.00E+00 |
| 391 | ALL | 258879.84 | 4083649.03 | 1.20290E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.126E-05 | 0.00E+00 |
| 392 | ALL | 258879.84 | 4083637.01 | 1.13200E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.765E-05 | 0.00E+00 |
| 393 | ALL | 258852.44 | 4083637.97 | 1.08010E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.501E-05 | 0.00E+00 |
| 394 | ALL | 258900.03 | 4083669.22 | 1.37890E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.023E-05 | 0.00E+00 |
| 395 | ALL | 258773.78 | 4083671.75 | 1.08840E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.544E-05 | 0.00E+00 |
| 396 | ALL | 258896.43 | 4083635.32 | 1.15550E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.885E-05 | 0.00E+00 |
| 397 | ALL | 259101.17 | 4083742.27 | 2.04010E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.039E-04 | 0.00E+00 |
| 398 | ALL | 257956.80 | 4083551.58 | 2.58880E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.319E-05 | 0.00E+00 |
| 399 | ALL | 258299.79 | 4083477.86 | 2.69150E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.371E-05 | 0.00E+00 |
| 400 | ALL | 258436.73 | 4083663.40 | 5.33740E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.718E-05 | 0.00E+00 |

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|---|---|---|---|---|---|---|---|
| 401 | ALL | 258437.84 | 4083647.84 | 5.05880E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.577E-05 | 0.00E+00 |
| 402 | ALL | 258459.51 | 4083635.62 | 4.92940E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.511E-05 | 0.00E+00 |
| 403 | ALL | 258376.97 | 4083538.26 | 3.72690E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.898E-05 | 0.00E+00 |
| 404 | ALL | 258393.50 | 4083537.79 | 3.61760E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.843E-05 | 0.00E+00 |
| 405 | ALL | 258307.43 | 4083534.01 | 3.71180E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.890E-05 | 0.00E+00 |
| 406 | ALL | 258272.12 | 4083541.20 | 3.21640E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.638E-05 | 0.00E+00 |
| 407 | ALL | 258098.15 | 4083481.43 | 2.34970E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.197E-05 | 0.00E+00 |
| 408 | ALL | 258061.23 | 4083493.74 | 2.37450E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.209E-05 | 0.00E+00 |
| 409 | ALL | 258226.60 | 4083477.59 | 2.51570E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.281E-05 | 0.00E+00 |
| 410 | ALL | 258361.21 | 4083459.13 | 2.68720E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.369E-05 | 0.00E+00 |
| 411 | ALL | 258020.46 | 4083486.82 | 2.29400E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.168E-05 | 0.00E+00 |
| 412 | ALL | 258042.00 | 4083487.59 | 2.32040E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.182E-05 | 0.00E+00 |
| 413 | ALL | 258275.83 | 4083476.05 | 2.61110E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.330E-05 | 0.00E+00 |
| 414 | ALL | 258711.10 | 4083462.61 | 3.88750E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.980E-05 | 0.00E+00 |
| 415 | ALL | 258766.68 | 4083459.83 | 4.23810E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.159E-05 | 0.00E+00 |
| 416 | ALL | 258799.47 | 4083558.75 | 6.65580E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.390E-05 | 0.00E+00 |
| 417 | ALL | 258964.79 | 4083455.94 | 5.93160E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.021E-05 | 0.00E+00 |
| 418 | ALL | 259000.10 | 4083453.98 | 6.21590E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.166E-05 | 0.00E+00 |
| 419 | ALL | 258916.41 | 4083410.17 | 4.61940E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.353E-05 | 0.00E+00 |
| 420 | ALL | 258494.66 | 4083420.63 | 2.65390E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.352E-05 | 0.00E+00 |
| 421 | ALL | 258674.47 | 4083415.40 | 3.16650E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.613E-05 | 0.00E+00 |
| 422 | ALL | 258431.23 | 4083427.17 | 2.57810E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.313E-05 | 0.00E+00 |
| 423 | ALL | 259186.93 | 4083925.38 | 2.32400E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.184E-04 | 0.00E+00 |
| 424 | ALL | 259176.19 | 4083917.25 | 2.41530E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.230E-04 | 0.00E+00 |
| 425 | ALL | 259161.40 | 4083909.71 | 2.53760E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.292E-04 | 0.00E+00 |
| 426 | ALL | 259201.76 | 4083935.11 | 2.19480E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.118E-04 | 0.00E+00 |
| 427 | ALL | 259213.57 | 4083943.61 | 2.09130E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.065E-04 | 0.00E+00 |
| 428 | ALL | 259226.33 | 4083951.64 | 1.98170E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.009E-04 | 0.00E+00 |
| 429 | ALL | 259264.60 | 4083975.74 | 1.66810E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.496E-05 | 0.00E+00 |
| 430 | ALL | 259240.03 | 4083958.26 | 1.87010E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.524E-05 | 0.00E+00 |
| 431 | ALL | 259278.30 | 4083983.30 | 1.56510E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.971E-05 | 0.00E+00 |
| 432 | ALL | 259136.50 | 4083874.19 | 2.65630E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.353E-04 | 0.00E+00 |
| 433 | ALL | 259146.90 | 4083859.07 | 2.52030E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.284E-04 | 0.00E+00 |
| 434 | ALL | 259153.04 | 4083843.01 | 2.41370E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.229E-04 | 0.00E+00 |
| 435 | ALL | 259181.39 | 4083875.14 | 2.31660E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.180E-04 | 0.00E+00 |
| 436 | ALL | 259278.25 | 4083934.67 | 1.66150E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.462E-05 | 0.00E+00 |
| 437 | ALL | 259286.28 | 4083919.55 | 1.63500E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.327E-05 | 0.00E+00 |
| 438 | ALL | 259258.88 | 4083901.13 | 1.81040E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.221E-05 | 0.00E+00 |
| 439 | ALL | 259219.19 | 4083874.19 | 2.05660E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.047E-04 | 0.00E+00 |
| 440 | ALL | 259290.53 | 4083907.74 | 1.62380E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.270E-05 | 0.00E+00 |
| 441 | ALL | 259286.28 | 4083919.55 | 1.63500E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.327E-05 | 0.00E+00 |
| 442 | ALL | 259290.53 | 4083907.74 | 1.62380E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.270E-05 | 0.00E+00 |
| 443 | ALL | 259220.60 | 4083817.02 | 1.94880E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.926E-05 | 0.00E+00 |
| 444 | ALL | 259245.17 | 4083818.91 | 1.83250E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.333E-05 | 0.00E+00 |
| 445 | ALL | 259278.25 | 4083840.65 | 1.69740E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.645E-05 | 0.00E+00 |
| 446 | ALL | 259309.43 | 4083860.96 | 1.55260E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.908E-05 | 0.00E+00 |
| 447 | ALL | 259321.72 | 4083822.70 | 1.49410E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.609E-05 | 0.00E+00 |
| 448 | ALL | 259297.42 | 4083771.34 | 1.53800E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.833E-05 | 0.00E+00 |
| 449 | ALL | 259328.16 | 4083772.65 | 1.43380E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.302E-05 | 0.00E+00 |
| 450 | ALL | 259209.79 | 4083758.26 | 1.81330E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.236E-05 | 0.00E+00 |
| 451 | ALL | 259098.67 | 4083698.32 | 1.75040E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.915E-05 | 0.00E+00 |
| 452 | ALL | 259175.62 | 4083673.70 | 1.53390E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.812E-05 | 0.00E+00 |
| 453 | ALL | 259178.70 | 4083648.30 | 1.41680E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.216E-05 | 0.00E+00 |
| 454 | ALL | 259175.62 | 4083607.52 | 1.24670E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.350E-05 | 0.00E+00 |
| 455 | ALL | 259255.64 | 4083650.61 | 1.33610E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.805E-05 | 0.00E+00 |
| 456 | ALL | 259254.87 | 4083599.06 | 1.17270E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.973E-05 | 0.00E+00 |
| 457 | ALL | 259301.81 | 4083715.25 | 1.41990E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.232E-05 | 0.00E+00 |
| 458 | ALL | 259299.50 | 4083656.00 | 1.28310E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.535E-05 | 0.00E+00 |
| 459 | ALL | 258884.76 | 4083606.75 | 9.85630E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.020E-05 | 0.00E+00 |
| 460 | ALL | 258922.14 | 4083520.12 | 7.14820E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.641E-05 | 0.00E+00 |
| 461 | ALL | 258873.46 | 4083521.06 | 6.56620E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.344E-05 | 0.00E+00 |
| 462 | ALL | 258831.41 | 4083523.90 | 6.12210E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.118E-05 | 0.00E+00 |
| 463 | ALL | 258896.62 | 4083543.27 | 7.54290E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.842E-05 | 0.00E+00 |
| 464 | ALL | 258884.76 | 4083606.75 | 9.85630E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.020E-05 | 0.00E+00 |
| 465 | ALL | 258844.64 | 4083588.64 | 8.37890E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.267E-05 | 0.00E+00 |
| 466 | ALL | 258879.61 | 4083590.53 | 9.05210E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.610E-05 | 0.00E+00 |
| 467 | ALL | 258859.29 | 4083606.12 | 9.36310E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.769E-05 | 0.00E+00 |
| 468 | ALL | 258909.38 | 4083593.84 | 9.69550E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.938E-05 | 0.00E+00 |
| 469 | ALL | 258926.86 | 4083669.92 | 1.43870E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.328E-05 | 0.00E+00 |
| 470 | ALL | 258924.03 | 4083638.26 | 1.22500E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.239E-05 | 0.00E+00 |
| 471 | ALL | 259224.41 | 4083564.62 | 1.07780E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.489E-05 | 0.00E+00 |
| 472 | ALL | 259174.70 | 4083526.03 | 9.51130E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.844E-05 | 0.00E+00 |
| 473 | ALL | 258768.08 | 4083878.27 | 4.11420E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.095E-04 | 0.00E+00 |
| 474 | ALL | 258815.83 | 4083880.24 | 4.43520E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.259E-04 | 0.00E+00 |
| 475 | ALL | 258898.26 | 4083873.04 | 4.30360E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.192E-04 | 0.00E+00 |
| 476 | ALL | 258854.43 | 4083876.97 | 4.42550E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.254E-04 | 0.00E+00 |
| 477 | ALL | 258934.24 | 4083871.73 | 4.15690E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.117E-04 | 0.00E+00 |
| 478 | ALL | 258760.89 | 4083832.48 | 2.89030E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.472E-04 | 0.00E+00 |
| 479 | ALL | 258760.89 | 4083778.84 | 2.00190E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.020E-04 | 0.00E+00 |
| 480 | ALL | 258759.58 | 4083718.01 | 1.36640E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.959E-05 | 0.00E+00 |
| 481 | ALL | 258345.05 | 4084976.54 | 5.20700E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.652E-05 | 0.00E+00 |

HARP2 - HRACalc (dated 22118) 12/26/2023 10:06:03 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
**********
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: HighEnd

**********
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 3.3

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 1.3
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

**********
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments.  The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True

Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

**********
INHALATION

Daily breathing rate: LongTerm24HR

**Worker Adjustment Factors**
Worker adjustment factors enabled: NO

**Fraction at time at home**
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

**********
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

**********
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

**********
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment.  Please see the input file for details.
Tier2 - What was changed: ED or start age changed

```
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: F:\Move\0029-0004\HARP (T4)\hra\Tier 4
MitigatedCancerRisk.csv
Cancer risk total by receptor saved to: F:\Move\0029-0004\HARP (T4)\hra\Tier 4
MitigatedCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: F:\Move\0029-0004\HARP (T4)\hra\Tier 4
MitigatedNCChronicRisk.csv
Chronic risk total by receptor saved to: F:\Move\0029-0004\HARP (T4)\hra\Tier 4
MitigatedNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: F:\Move\0029-0004\HARP (T4)\hra\Tier 4
MitigatedNCAcuteRisk.csv
Acute risk total by receptor saved to: F:\Move\0029-0004\HARP (T4)\hra\Tier 4
MitigatedNCAcuteRiskSumByRec.csv
HRA ran successfully
```

# Bonadelle TM6467 Residential Project (Mitigated Construction - Level 3 Filters Scenario)

**Estimation of Annual Onsite Construction Emissions**

| | | |
|---|---|---|
| Start of Construction | 11/1/2024 | |
| End of Construction | 2/18/2028 | **Total** |
| Number of Days | 1,204 | 1,204 |
| Number of Hours | 28,896 | 28,896 |

**Size of the construction area source:** **59,919.7** **sq-meters**

| Run | Year | On-site Construction Activity | Level 3 Filters Mitigated On-site DPM (pounds) |
|---|---|---|---|
| Project Construction | 2024 | Demolition | 5.4941 |
| Project Construction | 2024 | Site Preparation | 2.3995 |
| Project Construction | 2024 | Grading | 3.2310 |
| Project Construction | 2025 | Grading | 4.2556 |
| Project Construction | 2025 | Paving | 2.4107 |
| Project Construction | 2025 | Trenching/Utilities | 20.7739 |
| Project Construction | 2025 | Building Construction | 7.4684 |
| Project Construction | 2026 | Building Construction | 27.1674 |
| Project Construction | 2027 | Building Construction | 24.1959 |
| Project Construction | 2028 | Building Construction | 1.2454 |
| Project Construction | 2028 | Architectural Coating | 0.3071 |

**Total Mitigated DPM (On-site)** 9.895E+01 pounds

**Factor in AERMOD to Account for 5 days per week/8 hours per day: 4.2**

| | | |
|---|---|---|
| Average Emission for Construction Site | 4.492E+04 | grams |
| | 4.318E-04 | grams/sec |
| | 7.207E-09 | grams/m2-sec |

| | |
|---|---|
| Pounds/Construction Period | 9.895E+01 |
| Pounds/Day | 8.218E-02 |
| Pounds/Hour | 3.424E-03 |
| Pounds/Year | 3.000E+01 |
| Years | 3.29863 |

# Bonadelle TM6467 Residential Project (Mitigated Construction - Level 3 Filters Scenario)

**Estimation of Annual Offsite Construction DPM Emissions (No Change Compared to Unmitigated Scenario)**

| | | |
|---|---|---|
| Start of Construction | 11/1/2024 | |
| End of Construction | 2/18/2028 | **Total** |
| Number of Days | 1,204 | 1,204 |
| Number of Hours | 28,896 | 28,896 |

| | 2024 Project Construction | 2024 Project Construction | 2024+2025 Project Construction | 2025 Project Construction | 2025 Project Construction | 2025-2028 Project Construction | 2028 Project Construction | |
|---|---|---|---|---|---|---|---|---|
| **Construction Trip Type** | Demolition | Site Preparation | Grading | Paving | Trenching /Utilities | Building Construction | Architectural Coating | **Total (pounds)** |
| Total (pounds) | 0.03990 | 0.00739 | 0.86910 | 0.014770972 | 0.11817 | 1.85244 | 0.01510 | **2.91688** |

| | **Haul Truck** | **Vendor Truck** | **Worker** | **Total** |
|---|---|---|---|---|
| Demolition (2024) | 300.00 | 80.00 | 19.00 | 399.00 |
| Site Preparation (2024) | 175.00 | 40.00 | 0.00 | 215.00 |
| Grading (2024+2025) | 600.00 | 120.00 | 625.00 | 1,345.00 |
| Paving (2025) | 300.00 | 80.00 | 0.00 | 380.00 |
| Trenching/Utilities (2025) | 1,600.00 | 640.00 | 0.00 | 2,240.00 |
| Building Construction (2025-2028) | 34,992.00 | 10,390.68 | 0.00 | 45,382.68 |
| Architectural Coating (2028) | 233.28 | 80.00 | 0.00 | 313.28 |
| **Total** | **38,200.28** | **11,430.68** | **644.00** | **50,274.96** |

| | **Haul Truck (pounds)** | **Vendor Truck (pounds)** | **Worker (pounds)** | **Total (pounds)** |
|---|---|---|---|---|
| **Total DPM** | 2.216E+00 | 6.632E-01 | 3.736E-02 | 2.917E+00 |

| | | | | |
|---|---|---|---|---|
| **Average Emissions** | | | | |
| Grams | 1.006E+03 | 3.011E+02 | 1.696E+01 | |
| Grams/sec | 9.673E-06 | 2.894E-06 | 1.631E-07 | |
| Default Distance | 20 | 4 | 7.7 | Default Vehicle Travel Distance in CalEEMod |

| | | | | |
|---|---|---|---|---|
| **Vehicle Travel Distances in the Construction HRA (miles)** | | | | |
| Off-site Road Segment 1 | 0.44 | 0.44 | 0.44 | miles |
| **Trip Distribution (percent)** | | | | |
| Off-site Road Segment 1 | 100.0% | 100.0% | 100.0% | off-site |

| | | | | **Total** |
|---|---|---|---|---|
| **Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)** | | | | |
| Off-site Road Segment 1 | 2.113E-07 | 3.162E-07 | 9.254E-09 | 5.368E-07 |

| | Grams/sec | Pounds/Hour | Pounds/Day | Pounds/year | Tons/year |
|---|---|---|---|---|---|
| Off-site Road Segment 1 | 5.368E-07 | 4.260E-06 | 1.022E-04 | 3.732E-02 | 1.866E-05 |

# Health Risk Summary - Level 3 Filters Mitigated Construction (Summary of HARP2 Results)

**Bonadelle TM6467 Residential Project (Mitigated Construction - Level 3 Filters Scenario)**

| | RISK_SUM | Cancer Risk/million | MAXHI NonCancer Chronic | MAXHI Acute |
|---|---|---|---|---|
| Maximum Risk | 5.9925E-06 | 5.99 | 3.0520E-03 | 0.00E+00 |

| | X | Y |
|---|---|---|
| MEI UTM | 258521.86 | 4084223.21 |
| Lat/Long | 36°52'23.2"N 119°42'33.1"W | |
| Receptor # 310 | | |

*HARP - HRACalc v22118 12/26/2023 10:22:42 AM - Cancer Risk - Input File: F:\Move\0029-0004\HARP (L3 Filters)\hra\Level 3 Filters MitigatedHRAInput.hra
*HARP - HRACalc v22118 12/26/2023 10:22:42 AM - Chronic Risk - Input File: F:\Move\0029-0004\HARP (L3 Filters)\hra\Level 3 Filters MitigatedHRAInput.hra
*HARP - HRACalc v22118 12/26/2023 10:22:42 AM - Acute Risk - Input File: F:\Move\0029-0004\HARP (L3 Filters)\hra\Level 3 Filters MitigatedHRAInput.hra

| REC | GRP | X | Y | RISK_SUM | SCENARIO | MAXHI NonCancerChronic | MAXHI Acute |
|---|---|---|---|---|---|---|---|
| 1 | ALL | 258771.79 | 4084351.29 | 7.10710E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.620E-04 | 0.00E+00 |
| 2 | ALL | 258854.63 | 4084404.68 | 2.29430E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.169E-04 | 0.00E+00 |
| 3 | ALL | 258839.82 | 4084405.13 | 2.49640E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.271E-04 | 0.00E+00 |
| 4 | ALL | 258767.07 | 4084392.87 | 4.60590E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.346E-04 | 0.00E+00 |
| 5 | ALL | 259413.55 | 4084209.66 | 6.29950E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.208E-05 | 0.00E+00 |
| 6 | ALL | 259392.22 | 4084265.46 | 5.58810E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.846E-05 | 0.00E+00 |
| 7 | ALL | 259370.89 | 4084321.25 | 4.92790E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.510E-05 | 0.00E+00 |
| 8 | ALL | 259349.55 | 4084377.04 | 4.34720E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.214E-05 | 0.00E+00 |
| 9 | ALL | 259328.22 | 4084432.83 | 3.89700E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.985E-05 | 0.00E+00 |
| 10 | ALL | 259306.89 | 4084488.62 | 3.49930E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.782E-05 | 0.00E+00 |
| 11 | ALL | 259285.56 | 4084544.41 | 3.18660E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.623E-05 | 0.00E+00 |
| 12 | ALL | 259264.23 | 4084600.20 | 2.94300E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.499E-05 | 0.00E+00 |
| 13 | ALL | 259242.90 | 4084656.00 | 2.75290E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.402E-05 | 0.00E+00 |
| 14 | ALL | 259194.28 | 4084723.93 | 2.69080E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.370E-05 | 0.00E+00 |
| 15 | ALL | 259139.71 | 4084748.21 | 2.88890E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.471E-05 | 0.00E+00 |
| 16 | ALL | 259085.14 | 4084772.49 | 3.11590E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.587E-05 | 0.00E+00 |
| 17 | ALL | 259030.57 | 4084796.77 | 3.34830E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.705E-05 | 0.00E+00 |
| 18 | ALL | 258975.99 | 4084821.06 | 3.56590E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.816E-05 | 0.00E+00 |
| 19 | ALL | 258921.42 | 4084845.34 | 3.75360E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.912E-05 | 0.00E+00 |
| 20 | ALL | 258866.85 | 4084869.62 | 3.90730E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.990E-05 | 0.00E+00 |
| 21 | ALL | 258812.28 | 4084893.90 | 4.03600E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.056E-05 | 0.00E+00 |
| 22 | ALL | 258757.71 | 4084918.18 | 4.15140E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.114E-05 | 0.00E+00 |
| 23 | ALL | 259423.37 | 4084151.85 | 7.30110E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.719E-05 | 0.00E+00 |
| 24 | ALL | 259421.67 | 4084092.01 | 8.68140E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.422E-05 | 0.00E+00 |
| 25 | ALL | 259523.59 | 4084206.33 | 4.80530E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.447E-05 | 0.00E+00 |
| 26 | ALL | 259502.43 | 4084261.68 | 4.32020E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.200E-05 | 0.00E+00 |
| 27 | ALL | 259481.27 | 4084317.02 | 3.86540E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.969E-05 | 0.00E+00 |
| 28 | ALL | 259460.11 | 4084372.37 | 3.45680E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.761E-05 | 0.00E+00 |
| 29 | ALL | 259438.95 | 4084427.71 | 3.13050E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.594E-05 | 0.00E+00 |
| 30 | ALL | 259417.79 | 4084483.06 | 2.83460E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.444E-05 | 0.00E+00 |
| 31 | ALL | 259396.62 | 4084538.41 | 2.59510E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.322E-05 | 0.00E+00 |
| 32 | ALL | 259375.46 | 4084593.75 | 2.40450E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.225E-05 | 0.00E+00 |
| 33 | ALL | 259354.30 | 4084649.10 | 2.25290E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.147E-05 | 0.00E+00 |
| 34 | ALL | 259333.14 | 4084704.44 | 2.13190E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.086E-05 | 0.00E+00 |
| 35 | ALL | 259311.98 | 4084759.79 | 2.03440E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.036E-05 | 0.00E+00 |
| 36 | ALL | 259274.33 | 4084799.51 | 2.04800E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.043E-05 | 0.00E+00 |
| 37 | ALL | 259220.20 | 4084823.59 | 2.18590E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.113E-05 | 0.00E+00 |
| 38 | ALL | 259166.06 | 4084847.68 | 2.33990E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.192E-05 | 0.00E+00 |
| 39 | ALL | 259111.92 | 4084871.77 | 2.50070E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.274E-05 | 0.00E+00 |
| 40 | ALL | 259057.79 | 4084895.86 | 2.65770E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.354E-05 | 0.00E+00 |
| 41 | ALL | 259003.65 | 4084919.95 | 2.79900E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.426E-05 | 0.00E+00 |
| 42 | ALL | 258949.52 | 4084944.03 | 2.91740E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.486E-05 | 0.00E+00 |
| 43 | ALL | 258895.38 | 4084968.12 | 3.01230E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.534E-05 | 0.00E+00 |
| 44 | ALL | 258841.24 | 4084992.21 | 3.09060E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.574E-05 | 0.00E+00 |
| 45 | ALL | 258787.11 | 4085016.30 | 3.16180E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.610E-05 | 0.00E+00 |
| 46 | ALL | 258732.97 | 4085040.39 | 3.23250E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.646E-05 | 0.00E+00 |
| 47 | ALL | 259533.32 | 4084148.74 | 5.48230E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.792E-05 | 0.00E+00 |
| 48 | ALL | 259531.63 | 4084088.90 | 6.40910E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.264E-05 | 0.00E+00 |
| 49 | ALL | 258432.62 | 4084049.36 | 1.16500E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.933E-04 | 0.00E+00 |
| 50 | ALL | 258394.03 | 4084051.05 | 8.18810E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.170E-04 | 0.00E+00 |
| 51 | ALL | 258455.35 | 4084022.86 | 8.58650E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.373E-04 | 0.00E+00 |
| 52 | ALL | 258407.45 | 4084024.89 | 6.08560E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.099E-04 | 0.00E+00 |
| 53 | ALL | 258837.42 | 4083782.54 | 2.76430E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.408E-04 | 0.00E+00 |
| 54 | ALL | 258895.19 | 4083788.44 | 3.05970E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.558E-04 | 0.00E+00 |
| 55 | ALL | 258979.89 | 4083870.61 | 4.52280E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.304E-04 | 0.00E+00 |
| 56 | ALL | 258693.45 | 4083606.06 | 7.59740E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.869E-05 | 0.00E+00 |
| 57 | ALL | 258727.72 | 4083618.67 | 8.70510E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.434E-05 | 0.00E+00 |
| 58 | ALL | 258771.60 | 4083627.20 | 1.00400E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.114E-05 | 0.00E+00 |
| 59 | ALL | 258802.19 | 4083638.19 | 1.13550E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.783E-05 | 0.00E+00 |
| 60 | ALL | 258832.46 | 4083660.61 | 1.36000E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.926E-05 | 0.00E+00 |
| 61 | ALL | 258882.36 | 4083669.86 | 1.56590E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.975E-05 | 0.00E+00 |
| 62 | ALL | 258894.00 | 4083704.06 | 1.91030E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.730E-05 | 0.00E+00 |
| 63 | ALL | 258933.35 | 4083694.38 | 1.91130E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.735E-05 | 0.00E+00 |
| 64 | ALL | 258967.63 | 4083706.99 | 2.09730E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.068E-04 | 0.00E+00 |
| 65 | ALL | 259001.90 | 4083719.61 | 2.26050E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.151E-04 | 0.00E+00 |
| 66 | ALL | 259048.89 | 4083777.14 | 2.83560E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.444E-04 | 0.00E+00 |
| 67 | ALL | 259082.91 | 4083805.09 | 2.99200E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.524E-04 | 0.00E+00 |
| 68 | ALL | 259078.00 | 4083822.40 | 3.18220E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.621E-04 | 0.00E+00 |
| 69 | ALL | 258659.18 | 4083593.44 | 6.69660E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.411E-05 | 0.00E+00 |
| 70 | ALL | 258620.59 | 4083595.13 | 6.24620E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.181E-05 | 0.00E+00 |

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|---|---|---|---|---|---|---|---|
| 71 | ALL | 258582.00 | 4083596.83 | 5.86330E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.986E-05 | 0.00E+00 |
| 72 | ALL | 258543.41 | 4083598.52 | 5.54820E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.826E-05 | 0.00E+00 |
| 73 | ALL | 258504.82 | 4083600.21 | 5.30270E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.701E-05 | 0.00E+00 |
| 74 | ALL | 258466.22 | 4083601.90 | 5.12730E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.611E-05 | 0.00E+00 |
| 75 | ALL | 258427.63 | 4083603.60 | 5.03100E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.562E-05 | 0.00E+00 |
| 76 | ALL | 258389.04 | 4083605.29 | 5.09890E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.597E-05 | 0.00E+00 |
| 77 | ALL | 258698.48 | 4083526.75 | 5.55030E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.827E-05 | 0.00E+00 |
| 78 | ALL | 258715.65 | 4083527.38 | 5.74910E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.928E-05 | 0.00E+00 |
| 79 | ALL | 258759.76 | 4083522.35 | 6.14930E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.132E-05 | 0.00E+00 |
| 80 | ALL | 258794.89 | 4083535.28 | 6.95750E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.544E-05 | 0.00E+00 |
| 81 | ALL | 258830.03 | 4083548.22 | 7.89200E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.020E-05 | 0.00E+00 |
| 82 | ALL | 258865.16 | 4083561.15 | 8.96710E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.567E-05 | 0.00E+00 |
| 83 | ALL | 258900.29 | 4083574.08 | 1.01570E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.173E-05 | 0.00E+00 |
| 84 | ALL | 258935.43 | 4083587.02 | 1.14120E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.812E-05 | 0.00E+00 |
| 85 | ALL | 258970.56 | 4083599.95 | 1.27250E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.481E-05 | 0.00E+00 |
| 86 | ALL | 259005.70 | 4083612.89 | 1.40290E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.145E-05 | 0.00E+00 |
| 87 | ALL | 259040.83 | 4083625.82 | 1.52520E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.768E-05 | 0.00E+00 |
| 88 | ALL | 259075.96 | 4083638.76 | 1.63120E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.308E-05 | 0.00E+00 |
| 89 | ALL | 259104.34 | 4083715.55 | 2.16360E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.102E-04 | 0.00E+00 |
| 90 | ALL | 259172.18 | 4083718.97 | 2.04430E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.041E-04 | 0.00E+00 |
| 91 | ALL | 259186.67 | 4083749.30 | 2.16140E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.101E-04 | 0.00E+00 |
| 92 | ALL | 259201.16 | 4083815.52 | 2.38190E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.213E-04 | 0.00E+00 |
| 93 | ALL | 259180.70 | 4083813.74 | 2.49690E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.272E-04 | 0.00E+00 |
| 94 | ALL | 259189.52 | 4083854.46 | 2.58320E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.316E-04 | 0.00E+00 |
| 95 | ALL | 259208.10 | 4083891.91 | 2.50420E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.275E-04 | 0.00E+00 |
| 96 | ALL | 259247.03 | 4083917.32 | 2.18700E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.114E-04 | 0.00E+00 |
| 97 | ALL | 259253.30 | 4083964.35 | 2.06010E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.049E-04 | 0.00E+00 |
| 98 | ALL | 258656.61 | 4083462.55 | 4.15220E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.115E-05 | 0.00E+00 |
| 99 | ALL | 258621.02 | 4083463.50 | 3.96090E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.017E-05 | 0.00E+00 |
| 100 | ALL | 258582.43 | 4083465.19 | 3.79220E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.931E-05 | 0.00E+00 |
| 101 | ALL | 258543.83 | 4083466.88 | 3.65340E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.861E-05 | 0.00E+00 |
| 102 | ALL | 258505.24 | 4083468.57 | 3.54240E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.804E-05 | 0.00E+00 |
| 103 | ALL | 258466.65 | 4083470.27 | 3.45620E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.760E-05 | 0.00E+00 |
| 104 | ALL | 258428.06 | 4083471.96 | 3.39300E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.728E-05 | 0.00E+00 |
| 105 | ALL | 258389.47 | 4083473.65 | 3.34770E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.705E-05 | 0.00E+00 |
| 106 | ALL | 258685.31 | 4083386.82 | 3.44250E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.753E-05 | 0.00E+00 |
| 107 | ALL | 258721.07 | 4083399.98 | 3.76570E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.918E-05 | 0.00E+00 |
| 108 | ALL | 258756.84 | 4083413.15 | 4.14860E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.113E-05 | 0.00E+00 |
| 109 | ALL | 258801.60 | 4083413.40 | 4.47700E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.280E-05 | 0.00E+00 |
| 110 | ALL | 258841.28 | 4083456.31 | 5.58200E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.843E-05 | 0.00E+00 |
| 111 | ALL | 258864.13 | 4083452.65 | 5.74040E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.924E-05 | 0.00E+00 |
| 112 | ALL | 258906.01 | 4083454.15 | 6.21600E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.166E-05 | 0.00E+00 |
| 113 | ALL | 258926.22 | 4083457.88 | 6.53190E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.327E-05 | 0.00E+00 |
| 114 | ALL | 258978.10 | 4083529.93 | 9.49290E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.835E-05 | 0.00E+00 |
| 115 | ALL | 259025.53 | 4083531.43 | 1.01550E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.172E-05 | 0.00E+00 |
| 116 | ALL | 259060.74 | 4083450.71 | 7.75150E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.948E-05 | 0.00E+00 |
| 117 | ALL | 259078.73 | 4083531.65 | 1.07300E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.465E-05 | 0.00E+00 |
| 118 | ALL | 259114.49 | 4083544.82 | 1.15680E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.892E-05 | 0.00E+00 |
| 119 | ALL | 259150.26 | 4083557.99 | 1.22910E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.260E-05 | 0.00E+00 |
| 120 | ALL | 259201.73 | 4083605.88 | 1.43410E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.304E-05 | 0.00E+00 |
| 121 | ALL | 259217.44 | 4083640.60 | 1.57270E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.010E-05 | 0.00E+00 |
| 122 | ALL | 259233.15 | 4083675.33 | 1.69650E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.641E-05 | 0.00E+00 |
| 123 | ALL | 259248.86 | 4083710.05 | 1.79360E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.135E-05 | 0.00E+00 |
| 124 | ALL | 259239.07 | 4083760.47 | 2.00550E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.021E-04 | 0.00E+00 |
| 125 | ALL | 259280.28 | 4083779.50 | 1.88150E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.583E-05 | 0.00E+00 |
| 126 | ALL | 259287.49 | 4083821.31 | 1.91210E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.739E-05 | 0.00E+00 |
| 127 | ALL | 259313.59 | 4083842.80 | 1.78900E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.112E-05 | 0.00E+00 |
| 128 | ALL | 259305.21 | 4083878.94 | 1.82800E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.310E-05 | 0.00E+00 |
| 129 | ALL | 259298.24 | 4083891.93 | 1.86060E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.476E-05 | 0.00E+00 |
| 130 | ALL | 259358.83 | 4083953.11 | 1.43410E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.304E-05 | 0.00E+00 |
| 131 | ALL | 259374.54 | 4083987.84 | 1.28510E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.545E-05 | 0.00E+00 |
| 132 | ALL | 259390.25 | 4084022.56 | 1.13720E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.792E-05 | 0.00E+00 |
| 133 | ALL | 259405.96 | 4084057.28 | 9.96860E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.077E-05 | 0.00E+00 |
| 134 | ALL | 258649.54 | 4083373.65 | 3.17180E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.615E-05 | 0.00E+00 |
| 135 | ALL | 258610.95 | 4083375.34 | 3.05080E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.554E-05 | 0.00E+00 |
| 136 | ALL | 258572.36 | 4083377.04 | 2.94830E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.502E-05 | 0.00E+00 |
| 137 | ALL | 258533.77 | 4083378.73 | 2.86080E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.457E-05 | 0.00E+00 |
| 138 | ALL | 258495.17 | 4083380.42 | 2.78450E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.418E-05 | 0.00E+00 |
| 139 | ALL | 258456.58 | 4083382.12 | 2.71610E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.383E-05 | 0.00E+00 |
| 140 | ALL | 258417.99 | 4083383.81 | 2.65180E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.351E-05 | 0.00E+00 |
| 141 | ALL | 258379.40 | 4083385.50 | 2.59170E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.320E-05 | 0.00E+00 |
| 142 | ALL | 258680.97 | 4083277.10 | 2.57320E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.311E-05 | 0.00E+00 |
| 143 | ALL | 258717.22 | 4083290.45 | 2.77090E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.411E-05 | 0.00E+00 |
| 144 | ALL | 258753.47 | 4083303.79 | 3.00310E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.530E-05 | 0.00E+00 |
| 145 | ALL | 258789.71 | 4083317.14 | 3.27360E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.667E-05 | 0.00E+00 |
| 146 | ALL | 258825.96 | 4083330.48 | 3.59070E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.829E-05 | 0.00E+00 |
| 147 | ALL | 258862.21 | 4083343.83 | 3.95180E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.013E-05 | 0.00E+00 |
| 148 | ALL | 258898.46 | 4083357.17 | 4.37220E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.227E-05 | 0.00E+00 |
| 149 | ALL | 258934.71 | 4083370.52 | 4.84050E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.465E-05 | 0.00E+00 |
| 150 | ALL | 258970.96 | 4083383.86 | 5.36870E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.734E-05 | 0.00E+00 |
| 151 | ALL | 259007.21 | 4083397.20 | 5.94740E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.029E-05 | 0.00E+00 |
| 152 | ALL | 259043.46 | 4083410.55 | 6.56540E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.344E-05 | 0.00E+00 |
| 153 | ALL | 259079.70 | 4083423.89 | 7.19830E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.666E-05 | 0.00E+00 |
| 154 | ALL | 259115.95 | 4083437.24 | 7.84740E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.997E-05 | 0.00E+00 |
| 155 | ALL | 259152.20 | 4083450.58 | 8.48450E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.321E-05 | 0.00E+00 |
| 156 | ALL | 259188.45 | 4083463.93 | 9.08000E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.625E-05 | 0.00E+00 |
| 157 | ALL | 259224.70 | 4083477.27 | 9.60610E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.893E-05 | 0.00E+00 |
| 158 | ALL | 259276.87 | 4083525.81 | 1.10940E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.651E-05 | 0.00E+00 |
| 159 | ALL | 259292.79 | 4083561.00 | 1.21010E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.163E-05 | 0.00E+00 |
| 160 | ALL | 259308.72 | 4083596.20 | 1.30240E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.633E-05 | 0.00E+00 |

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|---|---|---|---|---|---|---|---|
| 161 | ALL | 259324.64 | 4083631.39 | 1.38020E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.029E-05 | 0.00E+00 |
| 162 | ALL | 259340.56 | 4083666.58 | 1.43780E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.323E-05 | 0.00E+00 |
| 163 | ALL | 259356.48 | 4083701.78 | 1.46940E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.484E-05 | 0.00E+00 |
| 164 | ALL | 259372.41 | 4083736.97 | 1.47170E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.496E-05 | 0.00E+00 |
| 165 | ALL | 259388.33 | 4083772.16 | 1.44710E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.370E-05 | 0.00E+00 |
| 166 | ALL | 259404.25 | 4083807.35 | 1.39530E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.106E-05 | 0.00E+00 |
| 167 | ALL | 259420.17 | 4083842.55 | 1.32170E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.732E-05 | 0.00E+00 |
| 168 | ALL | 259436.10 | 4083877.74 | 1.23250E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.277E-05 | 0.00E+00 |
| 169 | ALL | 259452.02 | 4083912.93 | 1.13250E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.768E-05 | 0.00E+00 |
| 170 | ALL | 259467.94 | 4083948.13 | 1.02750E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.233E-05 | 0.00E+00 |
| 171 | ALL | 259483.86 | 4083983.32 | 9.22420E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.698E-05 | 0.00E+00 |
| 172 | ALL | 259499.79 | 4084018.51 | 8.21330E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.183E-05 | 0.00E+00 |
| 173 | ALL | 259515.71 | 4084053.70 | 7.26970E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.703E-05 | 0.00E+00 |
| 174 | ALL | 258644.72 | 4083263.76 | 2.40460E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.225E-05 | 0.00E+00 |
| 175 | ALL | 258606.13 | 4083265.45 | 2.33110E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.187E-05 | 0.00E+00 |
| 176 | ALL | 258567.54 | 4083267.14 | 2.26780E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.155E-05 | 0.00E+00 |
| 177 | ALL | 258528.95 | 4083268.84 | 2.21320E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.127E-05 | 0.00E+00 |
| 178 | ALL | 258490.35 | 4083270.53 | 2.16520E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.103E-05 | 0.00E+00 |
| 179 | ALL | 258451.76 | 4083272.22 | 2.12240E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.081E-05 | 0.00E+00 |
| 180 | ALL | 258413.17 | 4083273.91 | 2.08380E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.061E-05 | 0.00E+00 |
| 181 | ALL | 258374.58 | 4083275.61 | 2.04830E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.043E-05 | 0.00E+00 |
| 182 | ALL | 258427.55 | 4084018.70 | 6.52110E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.321E-04 | 0.00E+00 |
| 183 | ALL | 257682.15 | 4084127.78 | 6.47220E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.296E-05 | 0.00E+00 |
| 184 | ALL | 257701.63 | 4084074.74 | 6.25030E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.183E-05 | 0.00E+00 |
| 185 | ALL | 257721.10 | 4084021.70 | 6.05130E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.082E-05 | 0.00E+00 |
| 186 | ALL | 257740.57 | 4083968.66 | 5.83830E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.974E-05 | 0.00E+00 |
| 187 | ALL | 257760.04 | 4083915.61 | 5.57400E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.839E-05 | 0.00E+00 |
| 188 | ALL | 257779.51 | 4083862.57 | 5.24270E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.670E-05 | 0.00E+00 |
| 189 | ALL | 257798.98 | 4083809.53 | 4.85390E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.472E-05 | 0.00E+00 |
| 190 | ALL | 257818.45 | 4083756.49 | 4.43220E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.257E-05 | 0.00E+00 |
| 191 | ALL | 257837.92 | 4083703.45 | 4.00510E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.040E-05 | 0.00E+00 |
| 192 | ALL | 257857.39 | 4083650.41 | 3.59570E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.831E-05 | 0.00E+00 |
| 193 | ALL | 257892.74 | 4083611.97 | 3.36220E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.712E-05 | 0.00E+00 |
| 194 | ALL | 257943.97 | 4083588.13 | 3.27010E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.666E-05 | 0.00E+00 |
| 195 | ALL | 257995.20 | 4083564.29 | 3.17030E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.615E-05 | 0.00E+00 |
| 196 | ALL | 258147.34 | 4083482.78 | 2.81700E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.435E-05 | 0.00E+00 |
| 197 | ALL | 258200.11 | 4083468.94 | 2.81270E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.433E-05 | 0.00E+00 |
| 198 | ALL | 258251.33 | 4083445.10 | 2.74640E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.399E-05 | 0.00E+00 |
| 199 | ALL | 258302.56 | 4083421.26 | 2.68220E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.366E-05 | 0.00E+00 |
| 200 | ALL | 257673.55 | 4084182.53 | 6.90780E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.518E-05 | 0.00E+00 |
| 201 | ALL | 257675.80 | 4084238.99 | 7.60370E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.873E-05 | 0.00E+00 |
| 202 | ALL | 257572.23 | 4084132.20 | 5.27990E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.689E-05 | 0.00E+00 |
| 203 | ALL | 257591.68 | 4084079.22 | 5.11890E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.607E-05 | 0.00E+00 |
| 204 | ALL | 257611.13 | 4084026.24 | 4.98250E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.538E-05 | 0.00E+00 |
| 205 | ALL | 257630.58 | 4083973.26 | 4.85010E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.470E-05 | 0.00E+00 |
| 206 | ALL | 257650.02 | 4083920.28 | 4.69550E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.391E-05 | 0.00E+00 |
| 207 | ALL | 257669.47 | 4083867.30 | 4.49800E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.291E-05 | 0.00E+00 |
| 208 | ALL | 257688.92 | 4083814.32 | 4.25250E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.166E-05 | 0.00E+00 |
| 209 | ALL | 257708.37 | 4083761.35 | 3.96820E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.021E-05 | 0.00E+00 |
| 210 | ALL | 257727.82 | 4083708.37 | 3.66090E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.865E-05 | 0.00E+00 |
| 211 | ALL | 257747.26 | 4083655.39 | 3.34820E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.705E-05 | 0.00E+00 |
| 212 | ALL | 257766.71 | 4083602.41 | 3.04420E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.550E-05 | 0.00E+00 |
| 213 | ALL | 257811.74 | 4083537.52 | 2.72670E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.389E-05 | 0.00E+00 |
| 214 | ALL | 257862.91 | 4083513.71 | 2.65450E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.352E-05 | 0.00E+00 |
| 215 | ALL | 257914.08 | 4083489.90 | 2.57560E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.312E-05 | 0.00E+00 |
| 216 | ALL | 257965.25 | 4083466.09 | 2.49570E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.271E-05 | 0.00E+00 |
| 217 | ALL | 258016.41 | 4083442.28 | 2.41850E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.232E-05 | 0.00E+00 |
| 218 | ALL | 258067.58 | 4083418.47 | 2.34780E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.196E-05 | 0.00E+00 |
| 219 | ALL | 258118.75 | 4083394.66 | 2.28440E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.164E-05 | 0.00E+00 |
| 220 | ALL | 258169.91 | 4083370.85 | 2.22860E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.135E-05 | 0.00E+00 |
| 221 | ALL | 258221.08 | 4083347.04 | 2.17880E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.110E-05 | 0.00E+00 |
| 222 | ALL | 258272.25 | 4083323.23 | 2.13300E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.086E-05 | 0.00E+00 |
| 223 | ALL | 258323.41 | 4083299.42 | 2.08960E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.064E-05 | 0.00E+00 |
| 224 | ALL | 257563.63 | 4084186.92 | 5.59310E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.849E-05 | 0.00E+00 |
| 225 | ALL | 257565.89 | 4084243.38 | 6.08790E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.101E-05 | 0.00E+00 |
| 226 | ALL | 258382.28 | 4084295.95 | 1.71470E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.733E-04 | 0.00E+00 |
| 227 | ALL | 258398.86 | 4084935.93 | 6.49660E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.309E-05 | 0.00E+00 |
| 228 | ALL | 258363.89 | 4084922.61 | 7.02980E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.580E-05 | 0.00E+00 |
| 229 | ALL | 258328.92 | 4084909.29 | 7.54910E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.845E-05 | 0.00E+00 |
| 230 | ALL | 258293.94 | 4084895.97 | 8.07700E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.114E-05 | 0.00E+00 |
| 231 | ALL | 258258.97 | 4084882.66 | 8.59890E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.380E-05 | 0.00E+00 |
| 232 | ALL | 258224.00 | 4084869.34 | 9.10220E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.636E-05 | 0.00E+00 |
| 233 | ALL | 258189.03 | 4084856.02 | 9.57550E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.877E-05 | 0.00E+00 |
| 234 | ALL | 258154.05 | 4084842.70 | 1.00120E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.099E-05 | 0.00E+00 |
| 235 | ALL | 258119.08 | 4084829.39 | 1.04050E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.299E-05 | 0.00E+00 |
| 236 | ALL | 258084.11 | 4084816.07 | 1.07490E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.475E-05 | 0.00E+00 |
| 237 | ALL | 258049.14 | 4084802.75 | 1.10380E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.622E-05 | 0.00E+00 |
| 238 | ALL | 258014.16 | 4084789.43 | 1.12620E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.736E-05 | 0.00E+00 |
| 239 | ALL | 257979.19 | 4084776.12 | 1.14140E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.813E-05 | 0.00E+00 |
| 240 | ALL | 257944.22 | 4084762.80 | 1.14910E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.852E-05 | 0.00E+00 |
| 241 | ALL | 257893.68 | 4084715.45 | 1.21640E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.195E-05 | 0.00E+00 |
| 242 | ALL | 257878.12 | 4084681.42 | 1.27930E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.516E-05 | 0.00E+00 |
| 243 | ALL | 257862.56 | 4084647.38 | 1.33020E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.775E-05 | 0.00E+00 |
| 244 | ALL | 257846.99 | 4084613.35 | 1.36430E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.948E-05 | 0.00E+00 |
| 245 | ALL | 257831.43 | 4084579.32 | 1.38040E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.031E-05 | 0.00E+00 |
| 246 | ALL | 257815.87 | 4084545.28 | 1.37630E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.010E-05 | 0.00E+00 |
| 247 | ALL | 257800.30 | 4084511.25 | 1.35100E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.881E-05 | 0.00E+00 |
| 248 | ALL | 257784.74 | 4084477.22 | 1.30560E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.649E-05 | 0.00E+00 |
| 249 | ALL | 257769.18 | 4084443.19 | 1.24180E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.325E-05 | 0.00E+00 |
| 250 | ALL | 257753.61 | 4084409.15 | 1.16690E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.943E-05 | 0.00E+00 |

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|---|---|---|---|---|---|---|---|
| 251 | ALL | 257738.05 | 4084375.12 | 1.08350E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.519E-05 | 0.00E+00 |
| 252 | ALL | 257722.49 | 4084341.09 | 9.98090E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.083E-05 | 0.00E+00 |
| 253 | ALL | 257706.93 | 4084307.06 | 9.13080E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.650E-05 | 0.00E+00 |
| 254 | ALL | 257691.36 | 4084273.02 | 8.32970E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.242E-05 | 0.00E+00 |
| 255 | ALL | 258433.83 | 4084949.25 | 6.02110E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.067E-05 | 0.00E+00 |
| 256 | ALL | 258472.31 | 4084948.28 | 5.79020E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.949E-05 | 0.00E+00 |
| 257 | ALL | 258510.78 | 4084947.31 | 5.54930E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.826E-05 | 0.00E+00 |
| 258 | ALL | 258549.25 | 4084946.34 | 5.29860E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.699E-05 | 0.00E+00 |
| 259 | ALL | 258587.72 | 4084945.37 | 5.03970E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.567E-05 | 0.00E+00 |
| 260 | ALL | 258626.19 | 4084944.40 | 4.77590E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.432E-05 | 0.00E+00 |
| 261 | ALL | 258664.66 | 4084943.43 | 4.51320E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.299E-05 | 0.00E+00 |
| 262 | ALL | 258703.13 | 4084942.47 | 4.25810E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.169E-05 | 0.00E+00 |
| 263 | ALL | 258401.16 | 4085045.71 | 4.77880E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.434E-05 | 0.00E+00 |
| 264 | ALL | 258365.71 | 4085032.22 | 5.10790E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.602E-05 | 0.00E+00 |
| 265 | ALL | 258330.27 | 4085018.72 | 5.45730E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.779E-05 | 0.00E+00 |
| 266 | ALL | 258294.82 | 4085005.22 | 5.84260E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.976E-05 | 0.00E+00 |
| 267 | ALL | 258259.38 | 4084991.72 | 6.21810E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.167E-05 | 0.00E+00 |
| 268 | ALL | 258223.93 | 4084978.23 | 6.59170E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.357E-05 | 0.00E+00 |
| 269 | ALL | 258188.49 | 4084964.73 | 6.95820E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.544E-05 | 0.00E+00 |
| 270 | ALL | 258153.04 | 4084951.23 | 7.31010E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.723E-05 | 0.00E+00 |
| 271 | ALL | 258117.60 | 4084937.73 | 7.64140E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.892E-05 | 0.00E+00 |
| 272 | ALL | 258082.15 | 4084924.23 | 7.94810E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.048E-05 | 0.00E+00 |
| 273 | ALL | 258046.71 | 4084910.74 | 8.22680E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.190E-05 | 0.00E+00 |
| 274 | ALL | 258011.26 | 4084897.24 | 8.47490E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.316E-05 | 0.00E+00 |
| 275 | ALL | 257975.82 | 4084883.74 | 8.68790E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.425E-05 | 0.00E+00 |
| 276 | ALL | 257940.37 | 4084870.24 | 8.86210E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.514E-05 | 0.00E+00 |
| 277 | ALL | 257904.93 | 4084856.75 | 8.99410E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.581E-05 | 0.00E+00 |
| 278 | ALL | 257869.48 | 4084843.25 | 9.08210E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.626E-05 | 0.00E+00 |
| 279 | ALL | 257818.26 | 4084795.26 | 9.64610E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.913E-05 | 0.00E+00 |
| 280 | ALL | 257802.49 | 4084760.77 | 1.01300E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.159E-05 | 0.00E+00 |
| 281 | ALL | 257786.72 | 4084726.27 | 1.05520E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.374E-05 | 0.00E+00 |
| 282 | ALL | 257770.94 | 4084691.78 | 1.08970E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.550E-05 | 0.00E+00 |
| 283 | ALL | 257755.17 | 4084657.29 | 1.11500E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.679E-05 | 0.00E+00 |
| 284 | ALL | 257739.39 | 4084622.80 | 1.12430E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.726E-05 | 0.00E+00 |
| 285 | ALL | 257723.62 | 4084588.30 | 1.11930E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.701E-05 | 0.00E+00 |
| 286 | ALL | 257707.85 | 4084553.81 | 1.09950E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.600E-05 | 0.00E+00 |
| 287 | ALL | 257692.07 | 4084519.32 | 1.06580E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.428E-05 | 0.00E+00 |
| 288 | ALL | 257676.30 | 4084484.83 | 1.02020E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.196E-05 | 0.00E+00 |
| 289 | ALL | 257660.53 | 4084450.33 | 9.65670E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.918E-05 | 0.00E+00 |
| 290 | ALL | 257644.75 | 4084415.84 | 9.05230E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.610E-05 | 0.00E+00 |
| 291 | ALL | 257628.98 | 4084381.35 | 8.41960E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.288E-05 | 0.00E+00 |
| 292 | ALL | 257613.21 | 4084346.85 | 7.78300E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.964E-05 | 0.00E+00 |
| 293 | ALL | 257597.43 | 4084312.36 | 7.17190E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.653E-05 | 0.00E+00 |
| 294 | ALL | 257581.66 | 4084277.87 | 6.60490E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.364E-05 | 0.00E+00 |
| 295 | ALL | 258436.60 | 4085059.21 | 4.46740E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.275E-05 | 0.00E+00 |
| 296 | ALL | 258475.07 | 4085058.24 | 4.30720E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.194E-05 | 0.00E+00 |
| 297 | ALL | 258513.55 | 4085057.27 | 4.14060E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.109E-05 | 0.00E+00 |
| 298 | ALL | 258552.02 | 4085056.31 | 3.96790E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.021E-05 | 0.00E+00 |
| 299 | ALL | 258590.49 | 4085055.34 | 3.79090E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.931E-05 | 0.00E+00 |
| 300 | ALL | 258628.96 | 4085054.37 | 3.61250E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.840E-05 | 0.00E+00 |
| 301 | ALL | 258667.43 | 4085053.40 | 3.43690E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.750E-05 | 0.00E+00 |
| 302 | ALL | 258404.04 | 4084257.27 | 2.78860E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.420E-03 | 0.00E+00 |
| 303 | ALL | 258415.08 | 4084289.21 | 2.00610E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.022E-03 | 0.00E+00 |
| 304 | ALL | 258414.69 | 4084274.53 | 2.31200E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.178E-03 | 0.00E+00 |
| 305 | ALL | 258429.94 | 4084296.83 | 1.97590E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.006E-03 | 0.00E+00 |
| 306 | ALL | 258441.68 | 4084257.32 | 3.01720E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.537E-03 | 0.00E+00 |
| 307 | ALL | 258519.90 | 4084270.62 | 4.20110E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.140E-03 | 0.00E+00 |
| 308 | ALL | 258532.02 | 4084270.62 | 4.89450E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.493E-03 | 0.00E+00 |
| 309 | ALL | 258539.83 | 4084255.54 | 5.64270E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.874E-03 | 0.00E+00 |
| 310 | ALL | 258521.86 | 4084223.21 | 5.99250E-06 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.052E-03 | 0.00E+00 |
| 311 | ALL | 258781.30 | 4084394.27 | 4.06610E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.071E-04 | 0.00E+00 |
| 312 | ALL | 258796.19 | 4084395.23 | 3.60440E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.836E-04 | 0.00E+00 |
| 313 | ALL | 258857.92 | 4084341.90 | 3.64450E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.856E-04 | 0.00E+00 |
| 314 | ALL | 258381.67 | 4084021.46 | 4.83110E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.461E-04 | 0.00E+00 |
| 315 | ALL | 258309.03 | 4084063.67 | 5.04290E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.568E-04 | 0.00E+00 |
| 316 | ALL | 258300.45 | 4084056.72 | 4.46170E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.272E-04 | 0.00E+00 |
| 317 | ALL | 258297.18 | 4084048.35 | 4.04900E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.062E-04 | 0.00E+00 |
| 318 | ALL | 258532.20 | 4083943.49 | 4.56350E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.324E-04 | 0.00E+00 |
| 319 | ALL | 258531.59 | 4083928.98 | 3.90090E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.987E-04 | 0.00E+00 |
| 320 | ALL | 258548.95 | 4083919.18 | 3.80240E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.937E-04 | 0.00E+00 |
| 321 | ALL | 258310.01 | 4084835.46 | 9.79120E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.987E-05 | 0.00E+00 |
| 322 | ALL | 258327.51 | 4084834.54 | 9.71130E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.946E-05 | 0.00E+00 |
| 323 | ALL | 258800.04 | 4083832.11 | 3.60840E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.838E-04 | 0.00E+00 |
| 324 | ALL | 258819.84 | 4083833.03 | 3.73780E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.904E-04 | 0.00E+00 |
| 325 | ALL | 258837.33 | 4083829.81 | 3.73850E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.904E-04 | 0.00E+00 |
| 326 | ALL | 258798.66 | 4083787.91 | 2.67630E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.363E-04 | 0.00E+00 |
| 327 | ALL | 258816.61 | 4083789.29 | 2.78920E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.421E-04 | 0.00E+00 |
| 328 | ALL | 258875.08 | 4083784.69 | 2.94110E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.498E-04 | 0.00E+00 |
| 329 | ALL | 258851.14 | 4083784.69 | 2.85720E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.455E-04 | 0.00E+00 |
| 330 | ALL | 258914.21 | 4083783.77 | 3.01690E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.537E-04 | 0.00E+00 |
| 331 | ALL | 258856.20 | 4083828.88 | 3.78510E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.928E-04 | 0.00E+00 |
| 332 | ALL | 258876.46 | 4083830.73 | 3.87890E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.976E-04 | 0.00E+00 |
| 333 | ALL | 258898.10 | 4083827.96 | 3.84970E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.961E-04 | 0.00E+00 |
| 334 | ALL | 258915.44 | 4083822.94 | 3.75190E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.911E-04 | 0.00E+00 |
| 335 | ALL | 258931.54 | 4083824.89 | 3.78930E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.930E-04 | 0.00E+00 |
| 336 | ALL | 258953.60 | 4083825.45 | 3.77130E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.921E-04 | 0.00E+00 |
| 337 | ALL | 258970.84 | 4083826.87 | 3.75530E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.913E-04 | 0.00E+00 |
| 338 | ALL | 258993.46 | 4083824.33 | 3.63280E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.850E-04 | 0.00E+00 |
| 339 | ALL | 258930.98 | 4083783.33 | 3.03150E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.544E-04 | 0.00E+00 |
| 340 | ALL | 258950.49 | 4083783.61 | 3.04930E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.553E-04 | 0.00E+00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 341 | ALL | 258972.03 | 4083780.69 | 3.00470E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.530E-04 | 0.00E+00 |
| 342 | ALL | 259008.61 | 4083779.36 | 2.94960E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.502E-04 | 0.00E+00 |
| 343 | ALL | 258989.99 | 4083781.69 | 3.00590E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.531E-04 | 0.00E+00 |
| 344 | ALL | 259010.28 | 4083825.59 | 3.58210E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.824E-04 | 0.00E+00 |
| 345 | ALL | 259031.90 | 4083822.93 | 3.44300E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.754E-04 | 0.00E+00 |
| 346 | ALL | 259027.91 | 4083781.35 | 2.93670E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.496E-04 | 0.00E+00 |
| 347 | ALL | 258997.31 | 4083873.16 | 4.42690E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.255E-04 | 0.00E+00 |
| 348 | ALL | 259017.93 | 4083871.16 | 4.21110E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.145E-04 | 0.00E+00 |
| 349 | ALL | 259033.23 | 4083867.17 | 4.01710E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.046E-04 | 0.00E+00 |
| 350 | ALL | 259060.17 | 4083870.83 | 3.80860E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.940E-04 | 0.00E+00 |
| 351 | ALL | 259092.77 | 4083789.00 | 2.80010E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.426E-04 | 0.00E+00 |
| 352 | ALL | 258799.98 | 4083743.62 | 2.03340E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.036E-04 | 0.00E+00 |
| 353 | ALL | 258817.23 | 4083744.18 | 2.10940E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.074E-04 | 0.00E+00 |
| 354 | ALL | 258838.72 | 4083742.49 | 2.17250E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.107E-04 | 0.00E+00 |
| 355 | ALL | 258854.27 | 4083743.05 | 2.23730E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.140E-04 | 0.00E+00 |
| 356 | ALL | 258873.78 | 4083741.92 | 2.28890E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.166E-04 | 0.00E+00 |
| 357 | ALL | 258891.87 | 4083741.07 | 2.33270E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.188E-04 | 0.00E+00 |
| 358 | ALL | 258909.12 | 4083742.77 | 2.40060E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.223E-04 | 0.00E+00 |
| 359 | ALL | 258927.50 | 4083741.92 | 2.42990E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.238E-04 | 0.00E+00 |
| 360 | ALL | 258946.72 | 4083741.64 | 2.45980E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.253E-04 | 0.00E+00 |
| 361 | ALL | 258965.10 | 4083740.79 | 2.47200E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.259E-04 | 0.00E+00 |
| 362 | ALL | 258984.89 | 4083739.94 | 2.47650E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.261E-04 | 0.00E+00 |
| 363 | ALL | 259002.70 | 4083739.09 | 2.47110E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.259E-04 | 0.00E+00 |
| 364 | ALL | 258797.44 | 4083705.16 | 1.61310E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.216E-05 | 0.00E+00 |
| 365 | ALL | 258817.51 | 4083704.60 | 1.67840E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.548E-05 | 0.00E+00 |
| 366 | ALL | 258839.00 | 4083706.01 | 1.76260E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.977E-05 | 0.00E+00 |
| 367 | ALL | 258855.96 | 4083705.73 | 1.81400E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.239E-05 | 0.00E+00 |
| 368 | ALL | 258877.74 | 4083702.62 | 1.84910E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.418E-05 | 0.00E+00 |
| 369 | ALL | 258912.45 | 4083702.25 | 1.94060E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.883E-05 | 0.00E+00 |
| 370 | ALL | 258949.94 | 4083702.25 | 2.02100E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.029E-04 | 0.00E+00 |
| 371 | ALL | 258984.07 | 4083700.32 | 2.05240E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.045E-04 | 0.00E+00 |
| 372 | ALL | 259002.81 | 4083699.84 | 2.06580E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.052E-04 | 0.00E+00 |
| 373 | ALL | 258898.77 | 4083648.91 | 1.44750E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.372E-05 | 0.00E+00 |
| 374 | ALL | 258627.60 | 4083540.66 | 5.15430E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.625E-05 | 0.00E+00 |
| 375 | ALL | 258513.83 | 4083537.00 | 4.36480E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.223E-05 | 0.00E+00 |
| 376 | ALL | 258774.97 | 4083660.95 | 1.20130E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.118E-05 | 0.00E+00 |
| 377 | ALL | 258769.92 | 4083651.33 | 1.12960E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.753E-05 | 0.00E+00 |
| 378 | ALL | 258774.97 | 4083637.63 | 1.06560E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.427E-05 | 0.00E+00 |
| 379 | ALL | 258773.05 | 4083614.79 | 9.48200E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.829E-05 | 0.00E+00 |
| 380 | ALL | 258800.45 | 4083672.96 | 1.35680E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.910E-05 | 0.00E+00 |
| 381 | ALL | 258800.93 | 4083660.95 | 1.27340E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.486E-05 | 0.00E+00 |
| 382 | ALL | 258800.45 | 4083651.81 | 1.21220E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.174E-05 | 0.00E+00 |
| 383 | ALL | 258832.17 | 4083650.61 | 1.28970E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.569E-05 | 0.00E+00 |
| 384 | ALL | 258833.86 | 4083672.48 | 1.45300E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.400E-05 | 0.00E+00 |
| 385 | ALL | 258832.90 | 4083638.59 | 1.21480E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.187E-05 | 0.00E+00 |
| 386 | ALL | 258853.33 | 4083670.80 | 1.49570E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.618E-05 | 0.00E+00 |
| 387 | ALL | 258851.89 | 4083659.98 | 1.40900E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.176E-05 | 0.00E+00 |
| 388 | ALL | 258850.45 | 4083648.21 | 1.32170E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.731E-05 | 0.00E+00 |
| 389 | ALL | 258899.25 | 4083659.25 | 1.52610E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.773E-05 | 0.00E+00 |
| 390 | ALL | 258879.12 | 4083659.84 | 1.47920E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.534E-05 | 0.00E+00 |
| 391 | ALL | 258879.84 | 4083649.03 | 1.40240E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.142E-05 | 0.00E+00 |
| 392 | ALL | 258879.84 | 4083637.01 | 1.31970E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.721E-05 | 0.00E+00 |
| 393 | ALL | 258852.44 | 4083637.97 | 1.25920E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.413E-05 | 0.00E+00 |
| 394 | ALL | 258900.03 | 4083669.22 | 1.60770E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.188E-05 | 0.00E+00 |
| 395 | ALL | 258773.78 | 4083671.75 | 1.26870E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.462E-05 | 0.00E+00 |
| 396 | ALL | 258896.43 | 4083635.32 | 1.34720E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.861E-05 | 0.00E+00 |
| 397 | ALL | 259101.17 | 4083742.27 | 2.37900E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.212E-04 | 0.00E+00 |
| 398 | ALL | 257956.80 | 4083551.58 | 3.01620E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.536E-05 | 0.00E+00 |
| 399 | ALL | 258299.79 | 4083477.86 | 3.11950E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.589E-05 | 0.00E+00 |
| 400 | ALL | 258436.73 | 4083663.40 | 6.17910E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.147E-05 | 0.00E+00 |
| 401 | ALL | 258437.84 | 4083647.84 | 5.85550E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.982E-05 | 0.00E+00 |
| 402 | ALL | 258459.51 | 4083635.62 | 5.71410E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.910E-05 | 0.00E+00 |
| 403 | ALL | 258376.97 | 4083538.26 | 4.25680E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.168E-05 | 0.00E+00 |
| 404 | ALL | 258393.50 | 4083537.79 | 4.15410E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.116E-05 | 0.00E+00 |
| 405 | ALL | 258307.43 | 4083534.01 | 4.20810E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.143E-05 | 0.00E+00 |
| 406 | ALL | 258272.12 | 4083541.20 | 3.71000E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.890E-05 | 0.00E+00 |
| 407 | ALL | 258098.15 | 4083481.43 | 2.73620E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.394E-05 | 0.00E+00 |
| 408 | ALL | 258061.23 | 4083493.74 | 2.76560E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.409E-05 | 0.00E+00 |
| 409 | ALL | 258226.60 | 4083477.59 | 2.92480E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.490E-05 | 0.00E+00 |
| 410 | ALL | 258361.21 | 4083459.13 | 3.11330E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.586E-05 | 0.00E+00 |
| 411 | ALL | 258020.46 | 4083486.82 | 2.67230E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.361E-05 | 0.00E+00 |
| 412 | ALL | 258042.00 | 4083487.59 | 2.70280E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.377E-05 | 0.00E+00 |
| 413 | ALL | 258275.83 | 4083476.05 | 3.03080E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.544E-05 | 0.00E+00 |
| 414 | ALL | 258711.10 | 4083462.61 | 4.52680E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.306E-05 | 0.00E+00 |
| 415 | ALL | 258766.68 | 4083459.83 | 4.93680E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.514E-05 | 0.00E+00 |
| 416 | ALL | 258799.47 | 4083558.75 | 7.75640E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.950E-05 | 0.00E+00 |
| 417 | ALL | 258964.79 | 4083455.94 | 6.91420E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.521E-05 | 0.00E+00 |
| 418 | ALL | 259000.10 | 4083453.98 | 7.24590E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.690E-05 | 0.00E+00 |
| 419 | ALL | 258916.41 | 4083410.17 | 5.38350E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.742E-05 | 0.00E+00 |
| 420 | ALL | 258494.66 | 4083420.63 | 3.08320E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.570E-05 | 0.00E+00 |
| 421 | ALL | 258674.47 | 4083415.40 | 3.68590E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.877E-05 | 0.00E+00 |
| 422 | ALL | 258431.23 | 4083427.17 | 2.99290E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.524E-05 | 0.00E+00 |
| 423 | ALL | 259186.93 | 4083925.38 | 2.71010E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.380E-04 | 0.00E+00 |
| 424 | ALL | 259176.19 | 4083917.25 | 2.81660E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.435E-04 | 0.00E+00 |
| 425 | ALL | 259161.40 | 4083909.71 | 2.95920E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.507E-04 | 0.00E+00 |
| 426 | ALL | 259201.76 | 4083935.11 | 2.55940E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.304E-04 | 0.00E+00 |
| 427 | ALL | 259213.57 | 4083943.61 | 2.43880E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.242E-04 | 0.00E+00 |
| 428 | ALL | 259226.33 | 4083951.64 | 2.31100E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.177E-04 | 0.00E+00 |
| 429 | ALL | 259264.60 | 4083975.74 | 1.94520E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.907E-05 | 0.00E+00 |
| 430 | ALL | 259240.03 | 4083958.26 | 2.18080E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.111E-04 | 0.00E+00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 431 | ALL | 259278.30 | 4083983.30 | 1.82520E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.296E-05 | 0.00E+00 |
| 432 | ALL | 259136.50 | 4083874.19 | 3.09770E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.578E-04 | 0.00E+00 |
| 433 | ALL | 259146.90 | 4083859.07 | 2.93910E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.497E-04 | 0.00E+00 |
| 434 | ALL | 259153.04 | 4083843.01 | 2.81480E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.434E-04 | 0.00E+00 |
| 435 | ALL | 259181.39 | 4083875.14 | 2.70150E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.376E-04 | 0.00E+00 |
| 436 | ALL | 259278.25 | 4083934.67 | 1.93760E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.868E-05 | 0.00E+00 |
| 437 | ALL | 259286.28 | 4083919.55 | 1.90670E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.711E-05 | 0.00E+00 |
| 438 | ALL | 259258.88 | 4083901.13 | 2.11120E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.075E-04 | 0.00E+00 |
| 439 | ALL | 259219.19 | 4083874.19 | 2.39830E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.222E-04 | 0.00E+00 |
| 440 | ALL | 259290.53 | 4083907.74 | 1.89360E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.644E-05 | 0.00E+00 |
| 441 | ALL | 259286.28 | 4083919.55 | 1.90670E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.711E-05 | 0.00E+00 |
| 442 | ALL | 259290.53 | 4083907.74 | 1.89360E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.644E-05 | 0.00E+00 |
| 443 | ALL | 259220.60 | 4083817.02 | 2.27260E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.158E-04 | 0.00E+00 |
| 444 | ALL | 259245.17 | 4083818.91 | 2.13700E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.088E-04 | 0.00E+00 |
| 445 | ALL | 259278.25 | 4083840.65 | 1.97950E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.008E-04 | 0.00E+00 |
| 446 | ALL | 259309.43 | 4083860.96 | 1.81060E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.222E-05 | 0.00E+00 |
| 447 | ALL | 259321.72 | 4083822.70 | 1.74230E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.874E-05 | 0.00E+00 |
| 448 | ALL | 259297.42 | 4083771.34 | 1.79350E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.134E-05 | 0.00E+00 |
| 449 | ALL | 259328.16 | 4083772.65 | 1.67200E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.515E-05 | 0.00E+00 |
| 450 | ALL | 259209.79 | 4083758.26 | 2.11460E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.077E-04 | 0.00E+00 |
| 451 | ALL | 259098.67 | 4083698.32 | 2.04110E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.040E-04 | 0.00E+00 |
| 452 | ALL | 259175.62 | 4083673.70 | 1.78870E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 9.110E-05 | 0.00E+00 |
| 453 | ALL | 259178.70 | 4083648.30 | 1.65220E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.415E-05 | 0.00E+00 |
| 454 | ALL | 259175.62 | 4083607.52 | 1.45370E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.404E-05 | 0.00E+00 |
| 455 | ALL | 259255.64 | 4083650.61 | 1.55810E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.935E-05 | 0.00E+00 |
| 456 | ALL | 259254.87 | 4083599.06 | 1.36750E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.965E-05 | 0.00E+00 |
| 457 | ALL | 259301.81 | 4083715.25 | 1.65580E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.433E-05 | 0.00E+00 |
| 458 | ALL | 259299.50 | 4083656.00 | 1.49620E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.620E-05 | 0.00E+00 |
| 459 | ALL | 258884.76 | 4083606.75 | 1.14900E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.852E-05 | 0.00E+00 |
| 460 | ALL | 258922.14 | 4083520.12 | 8.33240E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.244E-05 | 0.00E+00 |
| 461 | ALL | 258873.46 | 4083521.06 | 7.65310E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.898E-05 | 0.00E+00 |
| 462 | ALL | 258831.41 | 4083523.90 | 7.13460E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.634E-05 | 0.00E+00 |
| 463 | ALL | 258896.62 | 4083543.27 | 8.79240E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.478E-05 | 0.00E+00 |
| 464 | ALL | 258884.76 | 4083606.75 | 1.14900E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.852E-05 | 0.00E+00 |
| 465 | ALL | 258844.64 | 4083588.64 | 9.76660E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 4.974E-05 | 0.00E+00 |
| 466 | ALL | 258879.61 | 4083590.53 | 1.05520E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.374E-05 | 0.00E+00 |
| 467 | ALL | 258859.29 | 4083606.12 | 1.09150E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.559E-05 | 0.00E+00 |
| 468 | ALL | 258909.38 | 4083593.84 | 1.13030E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.757E-05 | 0.00E+00 |
| 469 | ALL | 258926.86 | 4083669.92 | 1.67750E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.544E-05 | 0.00E+00 |
| 470 | ALL | 258924.03 | 4083638.26 | 1.42820E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 7.274E-05 | 0.00E+00 |
| 471 | ALL | 259224.41 | 4083564.62 | 1.25680E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 6.401E-05 | 0.00E+00 |
| 472 | ALL | 259174.70 | 4083526.03 | 1.10900E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 5.648E-05 | 0.00E+00 |
| 473 | ALL | 258768.08 | 4083878.27 | 4.79750E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.443E-04 | 0.00E+00 |
| 474 | ALL | 258815.83 | 4083880.24 | 5.17200E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.634E-04 | 0.00E+00 |
| 475 | ALL | 258898.26 | 4083873.04 | 5.01860E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.556E-04 | 0.00E+00 |
| 476 | ALL | 258854.43 | 4083876.97 | 5.16070E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.628E-04 | 0.00E+00 |
| 477 | ALL | 258934.24 | 4083871.73 | 4.84760E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 2.469E-04 | 0.00E+00 |
| 478 | ALL | 258760.89 | 4083832.48 | 3.37000E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.716E-04 | 0.00E+00 |
| 479 | ALL | 258760.89 | 4083778.84 | 2.33400E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 1.189E-04 | 0.00E+00 |
| 480 | ALL | 258759.58 | 4083718.01 | 1.59290E-07 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 8.113E-05 | 0.00E+00 |
| 481 | ALL | 258345.05 | 4084976.54 | 6.07190E-08 | 3.3YrCancerHighEnd_InhSoilDermMMilkCrops | 3.092E-05 | 0.00E+00 |

HARP2 - HRACalc (dated 22118) 12/26/2023 10:22:42 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
**********
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: HighEnd

**********
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 3.3

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 1.3
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

**********
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments.  The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True

Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

**********
INHALATION

Daily breathing rate: LongTerm24HR

**Worker Adjustment Factors**
Worker adjustment factors enabled: NO

**Fraction at time at home**
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

**********
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

**********
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

```
**********
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment.  Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: F:\Move\0029-0004\HARP (L3 Filters)\hra\Level 3 Filters
MitigatedCancerRisk.csv
Cancer risk total by receptor saved to: F:\Move\0029-0004\HARP (L3 Filters)\hra\Level 3 Filters
MitigatedCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: F:\Move\0029-0004\HARP (L3 Filters)\hra\Level 3 Filters
MitigatedNCChronicRisk.csv
Chronic risk total by receptor saved to: F:\Move\0029-0004\HARP (L3 Filters)\hra\Level 3 Filters
MitigatedNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: F:\Move\0029-0004\HARP (L3 Filters)\hra\Level 3 Filters
MitigatedNCAcuteRisk.csv
Acute risk total by receptor saved to: F:\Move\0029-0004\HARP (L3 Filters)\hra\Level 3 Filters
MitigatedNCAcuteRiskSumByRec.csv
HRA ran successfully
```

# Health Risk Screening

## Operational Screening Calculations and Prioritization

## Diesel PM Screening — Prioritization Calculator

| | |
|---|---|
| **Applicability** | Use to provide a Prioritization score based on the emission potency method. Entries required in yellow areas, output in grey areas. |
| *Author (Prioritization Calculator)* | *Matthew Cegielski* *Last Update* *October 13, 2016* |
| *Date Updated with Project Emissions* | December 22, 2023 |
| **Facility:** | **TM6467 Residential Development Project (Diesel PM Screening Analysis)** |
| **ID#:** | **—** |
| **Project #:** | **Truck Run and Idle Emissions** |
| **Unit and Process#** | **Mobile Source Diesel (Trucks Visiting the TM6467 Residential Project)** |

| | | | | | |
|---|---|---|---|---|---|
| **Operating Hours hr/yr** | 4,193.70 | **(operating hours assumed based on idle hours)** | | | |
| Receptor Proximity and Proximity Factors | **Cancer Score** | **Chronic Score** | **Acute Score** | **Max Score** | Receptor proximity is in meters. Priortization scores are calculated by multiplying the total scores summed below by the proximity factors. Record the Max score for your receptor distance. If the substance list for the unit is longer than the number of rows here or if there are multiple processes use additional worksheets and sum the totals of the Max Scores. |
| **0< R<100 1.000** | 1.73E+00 | 5.37E-03 | 0.00E+00 | 1.73E+00 | |
| **100≤R<250 0.250** | 4.34E-01 | 1.34E-03 | 0.00E+00 | 4.34E-01 | |
| **250≤R<500 0.040** | 6.94E-02 | 2.15E-04 | 0.00E+00 | 6.94E-02 | |
| **500≤R<1000 0.011** | 1.91E-02 | 5.91E-05 | 0.00E+00 | 1.91E-02 | |
| **1000≤R<1500 0.003** | 5.20E-03 | 1.61E-05 | 0.00E+00 | 5.20E-03 | |
| **1500≤R<2000 0.002** | 3.47E-03 | 1.07E-05 | 0.00E+00 | 3.47E-03 | |
| **2000<R 0.001** | 1.73E-03 | 5.37E-06 | 0.00E+00 | 1.73E-03 | |

| **Mobile Source Diesel (Trucks visiting TM6467)** | Enter the unit's CAS# of the substances emitted and their amounts. | | | | Prioritzation score for each substance generated below. Totals on last row. | | |
|---|---|---|---|---|---|---|---|
| **Substance** | **CAS#** | **Annual Emissions (lbs/yr)** | **Maximum Hourly (lbs/hr)** | **Average Hourly (lbs/hr)** | **Cancer** | **Chronic** | **Acute** |
| **Diesel engine exhaust, particulate matter (Diesel PM)** | **9901** | 7.51E-01 | 6.80E-04 | 1.79E-04 | 1.73E+00 | 5.37E-03 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | **Totals** | **1.73E+00** | **5.37E-03** | **0.00E+00** |

## TM6467 (Bonadelle Homes) Residential Development Project—Health Risk Screening Analysis for Project Operations

**Diesel Truck Trips**

| | Trucks Onsite Daily | Average Daily Truck Trips |
|---|---|---|
| **Heavy Truck Trips** | **22.98** | **45.96** |

**Truck Assumptions**

| | |
|---|---|
| Trucks Onsite per Day | 22.98 |
| Trucks Onsite per Year | 8,387.4 |
| Idling Events per Truck per day | 2 |
| Idling Time per Event (minutes) | 15 |
| Idling Minutes/Year | 251,622 |
| Idling Hours/Year | 4,194 |

| | Truck Entering | Trucks Exiting | Total |
|---|---|---|---|
| Average Travel Distance Onsite (ft) | 660 | 660 | 1,320 |

(0.25 mile on-site and 0.25 mile off-site assumed for this localized assessment - residential project)

| | Miles/Trip | Truck Trips/Year | Miles/Year |
|---|---|---|---|
| Offsite Miles Estimate | 0.50 | 16,774.8 | 8,387.4 |

| | Distance Onsite (ft) in and out | Distance to Receptor Meters | Direction to Receptor | Idling Emissions (lbs/year) | Running Emissions (lbs/yr) | Total Truck Emissions (lbs/year) | Grand Total (lbs/yr) | Average Lbs/Day | Max Lbs/Day* | Max lbs/Hr |
|---|---|---|---|---|---|---|---|---|---|---|
| Emissions | 1,320 | <100 M | All | 0.02 | 0.73 | **0.7510** | 0.75 | 0.00206 | 0.00617 | 0.00051 |

*Max daily assumed to be 3 times the daily average. Max hr based on 12 hrs/day

**Running Emission Calculations** **EMFAC2021 Rates**

| | |
|---|---|
| Idling Emission Rate for Diesel g/day | 0.03057 |
| g/lb conversion factor | 0.00220 |
| HDT Onsite Running Emissions 5 mph g/mile | 0.09473 |
| HDT Running Emissions Onroad 5-25 mph | 0.03120 |

**EMFAC2021 PM10 running emissions Aggregated Fleet Age in 2025**

**EMFAC2021 Average Running Emissions**

| | PM10_RUNEX 5-25 MPH | PM10 RUNEX 5 MPH |
|---|---|---|
| **Weighted Averages (Based on Project Fleet)** | **0.03120** | **0.09473** |

| | Distance (Feet) | Distance (Miles) | Miles/Year/ Truck | Trucks/Day | Emission (g/mi) | Emissions g/year | Emission lbs/year | Emissions lbs/hour |
|---|---|---|---|---|---|---|---|---|
| Onsite Running Emissions | 1,320.00 | 0.25 | 91.3 | 23.0 | 0.09473 | 198.64 | 0.44 | 9.998E-05 |

| | Distance (Feet) | Miles/ Round Trip | Miles/Year/ Truck | Trucks/Day | Emissions Rate (g/mi) | Emissions g/year | Emission lbs/year | Emissions lbs/hour |
|---|---|---|---|---|---|---|---|---|
| Offsite Running Emissions | 2,640.00 | 0.50 | 182.50 | 23.0 | 0.03120 | 130.86 | 0.29 | 6.586E-05 |
| | | | | | | **Total Running** | **0.72642** | **0.00017** |

| **Total Emissions** | **Lbs/Year** | **Max Lbs/Hours** |
|---|---|---|
| Onsite Running Emissions | 0.4379 | 0.0001000 |
| Offsite Running Emissions | 0.2885 | 0.0000659 |
| Idling Emissions | 0.0246 | 0.0005144 |
| **Total** | **0.7510200** | **0.0006802** |

**Health Risk Prioritization Results (Receptor 0-100 M)**

| | Cancer Score | Chronic Score | Acute Score |
|---|---|---|---|
| Prioritization Score Truck Run and Idle | 1.73486 | 0.00537 | 0.00000 |

**Operational Fuel Calculation—Project-generated Operational Trips**

**Daily Truck Trips**

TM6467 (Bonadelle Homes) Residential Development Project - Buildout Operations in the Earliest Operational Year (2025)

| | Weekday | Saturday | Sunday |
|---|---|---|---|
| Trips per Day | 1,528 | 1,536 | 1,374 |

| | Total Daily Project Trips |
|---|---|
| **Total Average Daily Trips (All Vehicles)** | **1,507** |

**By Vehicle Type (Average Fleet Mix for the 2025 Operational Year for Passenger Vehicles)**

| | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Percentage | 0.524400 | 0.212000 | 0.167700 | 0.056300 | 0.000800 | 0.000900 | 0.007600 | 0.021200 | 0.000000 | 0.004300 | 0.002500 | 0.000100 | 0.002200 |
| Daily Trips | 790.182401 | 319.448263 | 252.695631 | 84.834609 | 1.205465 | 1.356148 | 11.451919 | 31.944826 | 0.000000 | 6.479375 | 3.767079 | 0.150683 | 3.315029 |

| Heavy Trucks Only | Trips |
|---|---|
| LHD1 | 1.205 |
| LHD2 | 1.356 |
| MHD | 11.452 |
| HHD | 31.945 |
| *Heavy Trucks Total* | 45.958 |

**On-site Truck Running and Idling Emissions for the Health Risk Screening Analysis—TM6467 (Bonadelle Homes) Residential Development Project**

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County
Region: Fresno
Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, g/mile for RUNEX, PMBW and PMTW, mph for Speed, kWh/mile for Energy Consumption, gallon/mile for Fuel Consumption. PHEV calculated based on total VMT.

| Region | Calendar Year | Vehicle Category | Model Year | Speed | Fuel | VMT | NOx_RUNEX | PM2.5_RUNEX | PM10_RUNEX | CO2_RUNEX | CH4_RUNEX | N2O_RUNEX | ROG_RUNEX | TOG_RUNEX | CO_RUNEX | SOx_RUNEX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fresno | 2025 | HHDT | Aggregate | 5 | Diesel | 857.4503495 | 17.51587214 | 0.102468249 | 0.107101408 | 3407.996547 | 0.024967783 | 0.536931244 | 0.537549512 | 0.611959201 | 1.301614027 | 0.032271689 |
| Fresno | 2025 | HHDT | Aggregate | 10 | Diesel | 13969.83279 | 8.65398252 | 0.017641697 | 0.018439376 | 2913.839393 | 0.004938893 | 0.459076583 | 0.106333018 | 0.121052047 | 0.696227094 | 0.027592317 |
| Fresno | 2025 | HHDT | Aggregate | 15 | Diesel | 32029.86622 | 5.437358417 | 0.009268271 | 0.009687342 | 2340.94009 | 0.001920525 | 0.368816064 | 0.041348381 | 0.047071984 | 0.375514473 | 0.022167303 |
| Fresno | 2025 | HHDT | Aggregate | 20 | Diesel | 57194.44454 | 3.649101502 | 0.006152006 | 0.006430173 | 2015.922125 | 0.00102755 | 0.317609352 | 0.022122861 | 0.025185193 | 0.242174401 | 0.019089577 |
| Fresno | 2025 | HHDT | Aggregate | 25 | Diesel | 38307.83276 | 3.233244633 | 0.006760988 | 0.007066689 | 1837.375886 | 0.000896407 | 0.289479319 | 0.019299389 | 0.021970886 | 0.201257942 | 0.017398851 |
| | | | | | | Total | 38.48955921 | 0.142291211 | 0.148724988 | 12516.07404 | 0.033751157 | 1.971912562 | 0.726653162 | 0.827239311 | 2.816787937 | 0.118519737 |
| Fresno | 2025 | LHDT1 | Aggregate | 5 | Diesel | 6751.530575 | 2.397229884 | 0.097406458 | 0.101810746 | 1197.553449 | 0.02039803 | 0.188675034 | 0.439157572 | 0.499951699 | 1.42410766 | 0.011347428 |
| Fresno | 2025 | LHDT1 | Aggregate | 10 | Diesel | 22451.91635 | 2.218190698 | 0.079550778 | 0.083147711 | 1037.93604 | 0.016705383 | 0.163527246 | 0.359657064 | 0.409445656 | 1.134530715 | 0.009834971 |
| Fresno | 2025 | LHDT1 | Aggregate | 15 | Diesel | 48624.41884 | 2.066767668 | 0.065430581 | 0.068389062 | 872.8093262 | 0.013854448 | 0.137511465 | 0.298278112 | 0.339569799 | 0.910699412 | 0.008270312 |
| Fresno | 2025 | LHDT1 | Aggregate | 20 | Diesel | 53308.06867 | 1.936266316 | 0.053994169 | 0.056435546 | 755.0549701 | 0.011573023 | 0.118959218 | 0.249160363 | 0.283652508 | 0.732359417 | 0.00715453 |
| Fresno | 2025 | LHDT1 | Aggregate | 25 | Diesel | 57053.85517 | 1.836519452 | 0.044648588 | 0.046667399 | 656.5354517 | 0.009707638 | 0.103437428 | 0.20899972 | 0.237932286 | 0.588243728 | 0.006221007 |
| | | | | | | Total | 10.45497402 | 0.341030573 | 0.356450463 | 4519.889237 | 0.072238521 | 0.71211039 | 1.555252831 | 1.770551947 | 4.789940932 | 0.042828248 |
| Fresno | 2025 | LHDT2 | Aggregate | 5 | Diesel | 2578.872246 | 2.204346482 | 0.087644898 | 0.091607811 | 1416.164313 | 0.018331403 | 0.223117264 | 0.394664315 | 0.449299084 | 1.270634549 | 0.013418877 |
| Fresno | 2025 | LHDT2 | Aggregate | 10 | Diesel | 8575.925608 | 2.00497901 | 0.072325003 | 0.075595219 | 1235.016665 | 0.015266185 | 0.194577378 | 0.328671971 | 0.374171188 | 1.02350789 | 0.011702411 |
| Fresno | 2025 | LHDT2 | Aggregate | 15 | Diesel | 18572.99805 | 1.834120384 | 0.059968561 | 0.062680074 | 1050.998741 | 0.012836735 | 0.16558528 | 0.276367348 | 0.314625851 | 0.826923089 | 0.009958747 |
| Fresno | 2025 | LHDT2 | Aggregate | 20 | Diesel | 20362.00492 | 1.685790151 | 0.04980263 | 0.052054484 | 909.7801851 | 0.010846393 | 0.143336239 | 0.233516464 | 0.265842969 | 0.666547641 | 0.00862063 |
| Fresno | 2025 | LHDT2 | Aggregate | 25 | Diesel | 21792.7775 | 1.568566168 | 0.04139142 | 0.043262957 | 790.8279193 | 0.009184282 | 0.124595261 | 0.19773218 | 0.225104941 | 0.534408719 | 0.007493496 |
| | | | | | | Total | 9.297802194 | 0.311132513 | 0.325200544 | 5402.787823 | 0.066464998 | 0.851211422 | 1.430952279 | 1.629044034 | 4.322021888 | 0.05119416 |
| Fresno | 2025 | MHDT | Aggregate | 5 | Diesel | 914.5255078 | 8.31258318 | 0.057268373 | 0.059857794 | 2352.7897 | 0.013591775 | 0.370682975 | 0.292627188 | 0.333133779 | 0.503326638 | 0.022279512 |
| Fresno | 2025 | MHDT | Aggregate | 10 | Diesel | 9656.337095 | 3.311432272 | 0.031402369 | 0.032822245 | 1976.654318 | 0.006747503 | 0.311422693 | 0.145271898 | 0.165380998 | 0.366664561 | 0.018717734 |
| Fresno | 2025 | MHDT | Aggregate | 15 | Diesel | 16936.82856 | 2.020978917 | 0.019201516 | 0.020069723 | 1553.280671 | 0.00322682 | 0.244720002 | 0.069472558 | 0.079089219 | 0.229497892 | 0.014708639 |
| Fresno | 2025 | MHDT | Aggregate | 20 | Diesel | 22472.26029 | 1.513133134 | 0.012062961 | 0.012608395 | 1322.621735 | 0.001562347 | 0.208379593 | 0.033636897 | 0.038293047 | 0.162479673 | 0.012524437 |
| Fresno | 2025 | MHDT | Aggregate | 25 | Diesel | 30544.12223 | 1.255039727 | 0.009432078 | 0.009858555 | 1193.191921 | 0.001126752 | 0.187987873 | 0.024258664 | 0.027616643 | 0.130453078 | 0.011298814 |
| | | | | | | Total | 16.41316723 | 0.129367297 | 0.135216712 | 8398.538345 | 0.026255198 | 1.323193137 | 0.565267206 | 0.643513686 | 1.392421843 | 0.079529136 |

Running Emissions 5-25 MPH Averaged

| | NOx_RUNEX | PM2.5_RUNEX | PM10_RUNEX | CO2_RUNEX | CH4_RUNEX | N2O_RUNEX | ROG_RUNEX | TOG_RUNEX | CO_RUNEX | SOx_RUNEX |
|---|---|---|---|---|---|---|---|---|---|---|
| **HHDT** | **7.6979** | **0.0285** | **0.0297** | **2503.2148** | **0.0068** | **0.3944** | **0.1453** | **0.1654** | **0.5634** | **0.0237** |
| **LHDT1** | **2.0910** | **0.0682** | **0.0713** | **903.9778** | **0.0144** | **0.1424** | **0.3111** | **0.3541** | **0.9580** | **0.0086** |
| **LHDT2** | **1.8596** | **0.0622** | **0.0650** | **1080.5576** | **0.0133** | **0.1702** | **0.2862** | **0.3258** | **0.8644** | **0.0102** |
| **MHDT** | **3.2826** | **0.0259** | **0.0270** | **1679.7077** | **0.0053** | **0.2646** | **0.1131** | **0.1287** | **0.2785** | **0.0159** |

| **HHDT** | | **LHDT1** | | **LHDT2** | | **MHDT** | |
|---|---|---|---|---|---|---|---|
| Localized Miles per Trip | 0.50 | Miles per Trip | 0.50 | Miles per Trip | 0.50 | Miles per Trip | 0.50 |
| Daily Trucks | 15.97 | Daily Trucks | 0.60 | Daily Trucks | 0.68 | Daily Trucks | 5.73 |
| Daily Trips | 31.94 | Daily Trips | 1.21 | Daily Trips | 1.36 | Daily Trips | 11.45 |

| **Onsite Truck Max Daily Emissions** | **ROG** | **$NO_X$** | **CO** | **SO2** | **PM10** | **PM2.5** |
|---|---|---|---|---|---|---|
| HHDT (g/day) | 2.3213 | 122.9542 | 8.9982 | 0.3786 | 0.4751 | 0.4545 |
| LHDT1 (g/day) | 0.1875 | 1.2603 | 0.5774 | 0.0052 | 0.0430 | 0.0411 |
| LHDT2 (g/day) | 0.1941 | 1.2609 | 0.5861 | 0.0069 | 0.0441 | 0.0422 |
| MHDT (g/day) | 0.6473 | 18.7962 | 1.5946 | 0.0911 | 0.1548 | 0.1482 |
| Total Trucks (g/day) | 3.3502 | 144.2717 | 11.7563 | 0.4818 | 0.7170 | 0.6860 |
| Running Emissions lbs/day | 0.0074 | 0.3181 | 0.0259 | 0.0011 | 0.0016 | 0.0015 |
| Idling Emissions Lbs/Day | 0.238 | 2.912 | 3.547 | 0.005 | 0.000 | 0.000 |
| Total Emissions/Day | **0.246** | **3.230** | **3.573** | **0.0064** | **0.002** | **0.002** |
| g/lb conversion factor | | 0.00220 | | | | |

| | |
|---|---|
| Idling Minutes/Day Per Truck | 15 |
| Max Trucks per Day | 22.98 |
| Number Idling Trucks per Day | 22.98 |
| Max Trucks per Day—HHDT | 15.97 |
| Max Trucks per Day—LHDT1 | 0.60 |
| Max Trucks per Day—LHDT2 | 0.68 |
| Max Trucks per Day—MHDT | 5.73 |

| Idling Emissions | Calendar Year | Season | Region | Vehicle Category | Fuel | Pollutant | g/vehicle/day | g/day | Max lbs/day |
|---|---|---|---|---|---|---|---|---|---|
| IDLEX | 2025 | Annual | FRESNO | HHDT | DSL | ROG | 6.6763 | 106.6364 | 0.235093 |
| IDLEX | 2025 | Annual | FRESNO | LHDT1 | DSL | ROG | 0.1098 | 0.0662 | 0.000146 |
| IDLEX | 2025 | Annual | FRESNO | LHDT2 | DSL | ROG | 0.1098 | 0.0744 | 0.000164 |
| IDLEX | 2025 | Annual | FRESNO | MHDT | DSL | ROG | 0.2262 | 1.2950 | 0.002855 |
| IDLEX | 2025 | Annual | FRESNO | HHDT | DSL | NOx | 78.1690 | 1,248.5483 | 2.752578 |
| IDLEX | 2025 | Annual | FRESNO | LHDT1 | DSL | NOx | 2.1244 | 1.2804 | 0.002823 |
| IDLEX | 2025 | Annual | FRESNO | LHDT2 | DSL | NOx | 2.0745 | 1.4067 | 0.003101 |
| IDLEX | 2025 | Annual | FRESNO | MHDT | DSL | NOx | 12.1612 | 69.6348 | 0.153518 |
| IDLEX | 2025 | Annual | FRESNO | HHDT | DSL | CO | 98.0188 | 1,565.5966 | 3.451550 |
| IDLEX | 2025 | Annual | FRESNO | LHDT1 | DSL | CO | 0.9097 | 0.5483 | 0.001209 |
| IDLEX | 2025 | Annual | FRESNO | LHDT2 | DSL | CO | 0.9097 | 0.6169 | 0.001360 |
| IDLEX | 2025 | Annual | FRESNO | MHDT | DSL | CO | 7.3364 | 42.0082 | 0.092612 |
| IDLEX | 2025 | Annual | FRESNO | HHDT | DSL | SO2 | 0.1445 | 2.3083 | 0.005089 |
| IDLEX | 2025 | Annual | FRESNO | LHDT1 | DSL | SO2 | 0.0013 | 0.0008 | 0.000002 |
| IDLEX | 2025 | Annual | FRESNO | LHDT2 | DSL | SO2 | 0.0020 | 0.0014 | 0.000003 |
| IDLEX | 2025 | Annual | FRESNO | MHDT | DSL | SO2 | 0.0206 | 0.1181 | 0.000260 |
| IDLEX | 2025 | Annual | FRESNO | HHDT | DSL | PM10 | 0.0334 | 0.0334 | 0.000074 |
| IDLEX | 2025 | Annual | FRESNO | LHDT1 | DSL | PM10 | 0.0278 | 0.0278 | 0.000061 |
| IDLEX | 2025 | Annual | FRESNO | LHDT2 | DSL | PM10 | 0.0278 | 0.0278 | 0.000061 |
| IDLEX | 2025 | Annual | FRESNO | MHDT | DSL | PM10 | 0.0233 | 0.0233 | 0.000051 |
| IDLEX | 2025 | Annual | FRESNO | HHDT | DSL | PM2.5 | 0.0320 | 0.0320 | 0.000070 |
| IDLEX | 2025 | Annual | FRESNO | LHDT1 | DSL | PM2.5 | 0.0266 | 0.0266 | 0.000059 |
| IDLEX | 2025 | Annual | FRESNO | LHDT2 | DSL | PM2.5 | 0.0266 | 0.0266 | 0.000059 |
| IDLEX | 2025 | Annual | FRESNO | MHDT | DSL | PM2.5 | 0.0223 | 0.0223 | 0.000049 |

For Weighted Average for Project (5-25 MPH)

| | NOx_RUNEX | PM2.5_RUNEX | PM10_RUNEX | CO2_RUNEX | CH4_RUNEX | N2O_RUNEX | ROG_RUNEX | TOG_RUNEX | CO_RUNEX | SOx_RUNEX |
|---|---|---|---|---|---|---|---|---|---|---|
| Weighted Average Using Project Truck Fleet Percentages | | | | | | | | | | |
| HHDT | 7.697911843 | 0.028458242 | 0.029744998 | 2503.214808 | 0.006750231 | 0.394382512 | 0.145330632 | 0.165447862 | 0.563357587 | 0.023703947 |
| LHDT1 | 2.090994804 | 0.068206115 | 0.071290093 | 903.9778474 | 0.014447704 | 0.142422078 | 0.311050566 | 0.354110389 | 0.957988186 | 0.00856565 |
| LHDT2 | 1.859560439 | 0.062226503 | 0.065040109 | 1080.557565 | 0.013293 | 0.170242284 | 0.286190456 | 0.325808807 | 0.864404378 | 0.010238832 |
| MHDT | 3.282633446 | 0.025873459 | 0.027043342 | 1679.707669 | 0.00525104 | 0.264638627 | 0.113053441 | 0.128702737 | 0.278484369 | 0.015905827 |
| | | | | | | | | | | |
| HHDT | 122.9542283 | 0.4545468 | 0.47509939 | 39982.3811 | 0.107817486 | 6.299240425 | 2.321280902 | 2.642601608 | 8.998180133 | 0.37860924 |
| LHDT1 | 1.260310675 | 0.041110047 | 0.042968861 | 544.8568925 | 0.008708102 | 0.085842425 | 0.187480308 | 0.213433866 | 0.577410683 | 0.005162796 |
| LHDT2 | 1.260919851 | 0.042194182 | 0.044102016 | 732.6981444 | 0.009013639 | 0.115436891 | 0.194058348 | 0.220922527 | 0.586130257 | 0.006942687 |
| MHDT | 18.79622593 | 0.148150378 | 0.154849081 | 9617.937965 | 0.030067239 | 1.515310043 | 0.647339418 | 0.736946651 | 1.594590196 | 0.091076121 |
| Total | 144.2716847 | 0.686001408 | 0.717019347 | 50877.8741 | 0.155606466 | 8.015829785 | 3.350158976 | 3.813904653 | 11.75631127 | 0.481790844 |
| Weighted Average | 6.278365426 | 0.029853173 | 0.031203001 | 2214.085781 | 0.006771629 | 0.348830116 | 0.145791063 | 0.165972187 | 0.5116071 | 0.020966408 |

| | |
|---|---|
| Max Trucks per Day—HHDT | 15.97 |
| Max Trucks per Day—LHDT1 | 0.60 |
| Max Trucks per Day—LHDT2 | 0.68 |
| Max Trucks per Day—MHDT | 5.73 |
| Total | 22.98 |

For Weighted Average for Project (5 MPH)

| | NOx_RUNEX | PM2.5_RUNEX | PM10_RUNEX | CO2_RUNEX | CH4_RUNEX | N2O_RUNEX | ROG_RUNEX | TOG_RUNEX | CO_RUNEX | SOx_RUNEX |
|---|---|---|---|---|---|---|---|---|---|---|
| Weighted Average Using Project Truck Fleet Percentages | | | | | | | | | | |
| HHDT | 17.51587214 | 0.102468249 | 0.107101408 | 3407.996547 | 0.024967783 | 0.536931244 | 0.537549512 | 0.611959201 | 1.301614027 | 0.032271689 |
| LHDT1 | 2.397229884 | 0.097406458 | 0.101810746 | 1197.553449 | 0.02039803 | 0.188675034 | 0.439157572 | 0.499951699 | 1.42410766 | 0.011347428 |
| LHDT2 | 2.204346482 | 0.087644898 | 0.091607811 | 1416.164313 | 0.018331403 | 0.223117264 | 0.394664315 | 0.449299084 | 1.270634549 | 0.013418877 |
| MHDT | 8.31258318 | 0.057268373 | 0.059857794 | 2352.7897 | 0.013591775 | 0.370682975 | 0.292627188 | 0.333133779 | 0.503326638 | 0.022279512 |
| | | | | | | | | | | |
| HHDT | 279.7707464 | 1.636665201 | 1.710667939 | 54433.92884 | 0.398795739 | 8.576087656 | 8.585962898 | 9.774465185 | 20.78991699 | 0.515456755 |
| LHDT1 | 1.444888532 | 0.058710045 | 0.061364653 | 721.8044699 | 0.012294557 | 0.113720588 | 0.264694573 | 0.301337173 | 0.858356072 | 0.006839464 |
| LHDT2 | 1.494710351 | 0.059429739 | 0.062116888 | 960.2644026 | 0.01243005 | 0.151290048 | 0.267611667 | 0.304658091 | 0.861584432 | 0.009098993 |
| MHDT | 47.59751404 | 0.327916379 | 0.342743303 | 13471.97837 | 0.077825952 | 2.122515678 | 1.675571409 | 1.907510502 | 2.882027907 | 0.127571579 |
| Total | 330.3078593 | 2.082721364 | 2.176892782 | 69587.97608 | 0.501346298 | 10.96361397 | 10.79384055 | 12.28797095 | 25.3918854 | 0.658966792 |
| Weighted Average | 14.37422352 | 0.09063515 | 0.094733269 | 3028.305546 | 0.021817415 | 0.477110772 | 0.469722631 | 0.534743682 | 1.104995313 | 0.02867669 |

| | |
|---|---|
| Max Trucks per Day—HHDT | 15.97 |
| Max Trucks per Day—LHDT1 | 0.60 |
| Max Trucks per Day—LHDT2 | 0.68 |
| Max Trucks per Day—MHDT | 5.73 |
| Total | 22.98 |

For Weighted Average for Project (Idle)

| | PM10_IDLEX (g/d) |
|---|---|
| Weighted Average Using Project Truck Fleet Percentages | |
| HHDT | 0.033404105 |
| LHDT1 | 0.027772597 |
| LHDT2 | 0.02777247 |
| MHDT | 0.023309869 |
| | |
| HHDT | 0.533544165 |
| LHDT1 | 0.016739449 |
| LHDT2 | 0.018831794 |
| MHDT | 0.133471363 |
| Total | 0.70258677 |
| Weighted Average | 0.030574929 |

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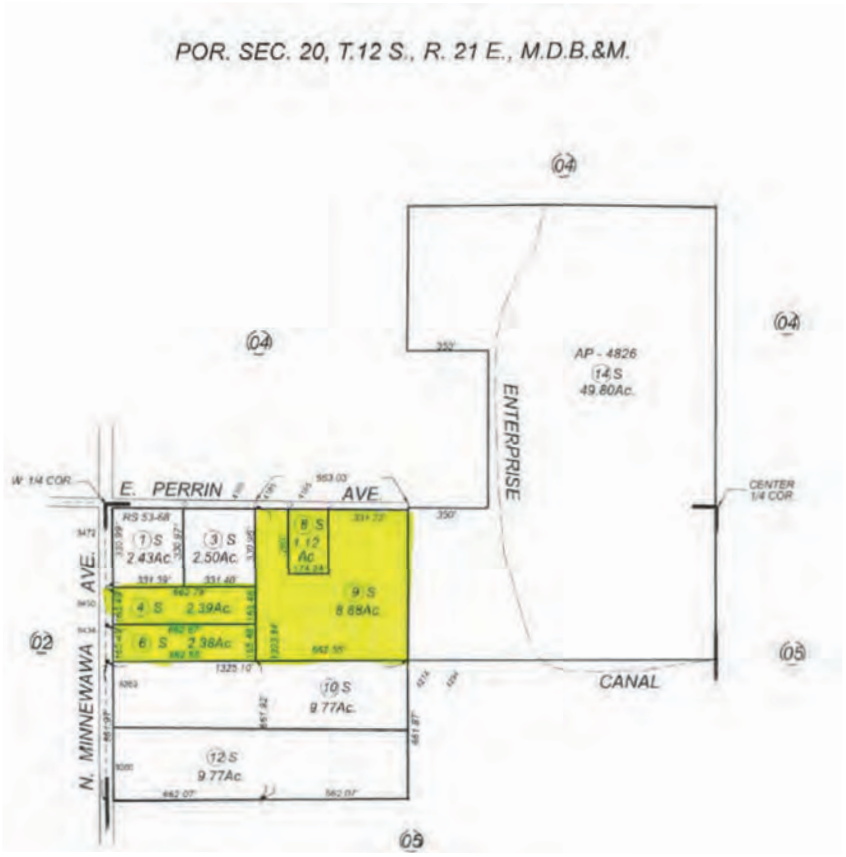


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ARGONAUT ECOLOGICAL CONSULTING, INC.

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## Attachments Attachment A: Photographs

# 1.0 EXECUTIVE SUMMARY AND INTRODUCTION

## EXECUTIVE SUMMARY

Argonaut Ecological, Inc. conducted a biological evaluation of an approximately 15-acre site near Minnewawa Avenue and Perrin Avenue in Clovis, California (See Figure 1).

The assessment included evaluating the types of habitats present and sensitive species associated with those habitats. The biological evaluation focused on mapping existing habitat types based on a site walk and a review of public and commercial databases, aerial photographs (current and historical), and other published information and available data.

The Study Area is in an area that was historically in agricultural production. The Study Area is developed with rural residential homes, pasture (previously irrigated), landscaped areas, and a horse paddock. There are no sensitive habitats within the Study Area, including waters/wetlands or critical habitat for species of concern. The Study Area potentially provides a habitat for nesting raptors (burrowing owl) and migratory birds.

## 1.1 INTRODUCTION

Argonaut conducted a biological resource assessment of the approximately 15-acre site. The property has three homes (one vacant) within the Study Area. Bonadelle Neighborhoods proposes to build residential homes. The timing and phasing would depend on market conditions.

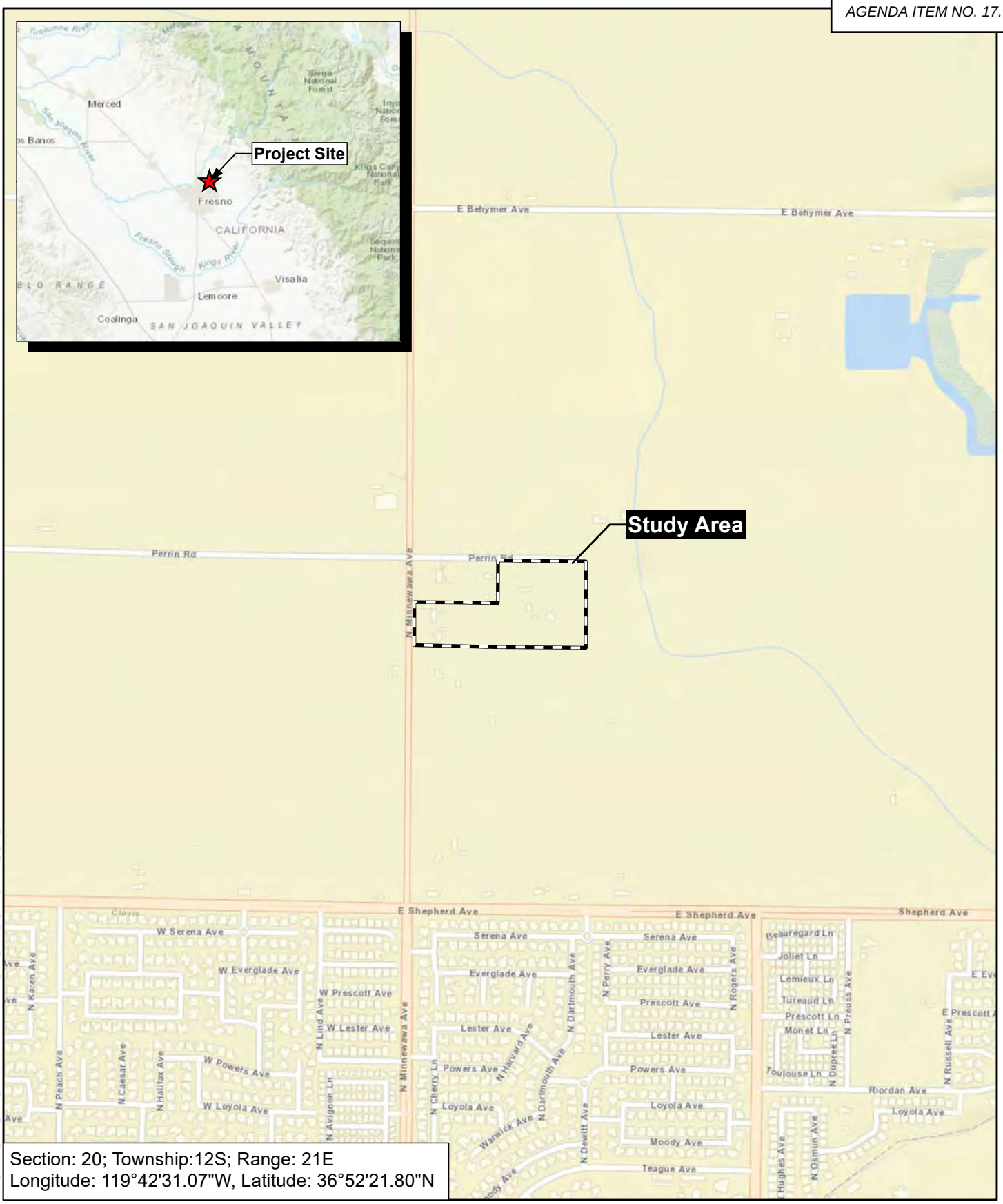
## 1.2 STUDY OBJECTIVES

This report describes the biological resources present within and adjacent to the Study Area, describes the area's biological characteristics, and evaluates the Study Area's likelihood to support sensitive biological resources (such as wetlands, creeks/drainages, and special status species). This evaluation relied on available literature, aerial photography, historic topographic and aerial maps, and a site visit. For this study, wetland habitat includes those areas possibly considered "Waters of the U.S." by the U.S. Army Corps of Engineers (Army Corps) or Waters of the State of California. Section 1.2.1 describes wetlands as a subset of "Waters of the U.S." under the Federal Clean Water Act (CWA).

This report assesses the project's potential effects on biological resources and evaluates whether any associated regulatory approvals or permits are required. This report also evaluates the potential impacts that site development may have on protected habitat, species protected by the Federal Endangered Species Act (ESA), or those protected under the California Environmental Quality Act (CEQA) or California Endangered Species Act

## 1.3 REGULATORY JURISDICTION AND BACKGROUND

Several agencies share regulatory jurisdiction over biological resources. The following is a brief description of the primary jurisdiction of each agency.




Section: 20; Township:12S; Range: 21E
Longitude: 119°42'31.07"W, Latitude: 36°52'21.80"N

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**Figure 1**

## REGIONAL LOCATION AND VICINITY

TM 6467 PERRIN AVE AND MINNEWAWA

*Fresno Coun*

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Basemap Source: ESRI (2023)

## Wetland Protection

### *U.S. Army Corps of Engineers*

Wetlands are a type of water in the U.S. The U.S. Army Corps of Engineers (Army Corps) and the U.S. Environmental Protection Agency (EPA) regulate the placement of fill into the Waters of the U.S. under Section 404 of the Federal Clean Water Act (CWA) and Section 10 of the Rivers and Harbor Act. For this purpose, "Waters of the U.S." is legally defined under Section 404 of the Federal CWA and includes interstate streams, creeks, and adjacent wetlands. The Army Corps defines wetlands as "*those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions*" (Environmental Laboratory 1987). In California, seasonally inundated areas that meet the criteria of all three wetland parameters (soils, hydrology, and vegetation), as defined in the recently issued Wetland Delineation Manual for the Arid West (USACE 2006), are also considered jurisdictional wetlands.

Since 2001, several U.S. Supreme Court rulings regarding the regulation of isolated, intrastate Waters by the Army Corps have limited the scope of federal jurisdiction under the CWA and excluded many California wetlands from federal regulation.

In December 2019, the U.S. EPA and the U.S. Army published the final rule to repeal the 2015 Clean Water Rule. The "Clean Water Rule" clarified what constitutes Waters of the U.S., and presumably, more precisely defined and made permitting more predictable, thus less costly, and more straightforward.

After several challenges to the "Clean Water Rule," the U.S. EPA and the Department of the Army proposed the pre-2015 (pre-Obama-era rules) definition "of Waters of the United States," updated to reflect consideration of Supreme Court decisions. The new rule went into effect on May 23, 2023; however, on May 25, 2023, the U.S. Supreme Court issued a decision in the case of *Sackett v. Environmental Protection Agency that rolled back the definition of Waters of the U.S. to better align with the original definition as included in the Rapanos decision*. The new definition limits "Waters" as "limited geographic[al] features that are described in ordinary parlance as 'streams, oceans, rivers, and lakes" and to "adjacent wetlands that are 'indistinguishable' from those bodies of water due to a continuous surface connection." The prior use of a "significant nexus" was set aside by the Court.

Waters typically do not include prior converted cropland (those areas converted before December 23, 1985). Notwithstanding the classification of a wetland as a prior converted cropland by any federal agency for the CWA, the final authority to determine jurisdiction remains with the U.S. EPA

### *California State Water Resources Control Board*

Since 1993, California has had a Wetlands Conservation Policy (a.k.a. Executive Order W-51 59- 93). It is commonly called the *No Net Loss policy* for wetlands, establishing a state mandate for developing and adopting a policy framework and strategy to protect the State's wetland ecosystems. The policy was to be implemented voluntarily and was expressly not to be implemented on a "project-by-project" basis (See EO W-59-93, Section III).

In 2020, California adopted the State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State. The State definition of wetland differs from the Federal definition in that

the state definition may include areas with no vegetation, assuming the other criteria are present. Wetlands of the State include 1) natural wetlands, 2) wetlands created by modification of Waters of the State (at any point in history), and 3) artificial wetlands that meet specific criteria. The State definition only exempts a few types of Waters. Water features excluded from the State's definition include industrial or municipal wastewater, certain stormwater treatment facilities, agricultural crop irrigation, industrial processing or cooling, and fields flooded for rice growing.

## Listed Protected Species and Habitat Protection

### *U.S. Fish and Wildlife Service*

The U.S. Fish and Wildlife Service (USFWS) implements the Migratory Bird Treaty Act (16 USC Section 703-711), Bald and Golden Eagle Protection Act (16 United States Code [USC] Section 668), and Federal Endangered Species Act (FESA; 16 USC § 153 *et seq.)*.

The **Migratory Bird Treaty Act (MBTA)** was first enacted in 1918 to protect migratory birds between the United States and Great Britain (acting on behalf of Canada). The MBTA makes it illegal for anyone to take, possess, import, transport, purchase, barter, offer for sale, or purchase any migratory birds, nests, or eggs unless a federal agency has issued a permit. The USFWS has statutory authority and responsibility for enforcing the MBTA. This act was revised in 2004 to include all species native to the U.S. or its territories due to natural biological or ecological processes (70 FR 12710, March 15, 2005). The MBTA does not include nonnative species whose occurrences in the U.S. result solely from intentional or unintentional human introduction. The USFWS maintains a list of bird species not protected under the MBTA.

In January 2021, the USFWS published a new rule in the Federal Register. Under the rule change, the unintentional killing of migratory birds does not violate the MBTA. Only the intentional "pursuing, hunting, taking, capturing, killing, or attempting to do the same ... directed at migratory birds, their nests, or their eggs" would be illegal under the changes.

The **Federal Endangered Species Act (FESA)** prohibits "take" "of any federally listed wildlife species (the destruction of federally listed plants on private property is not prohibited and does not require a permit)**.** "Take" under the federal definition means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, collect, or attempt to engage in any such conduct. "Incidental take" is harm or death that may occur during the implementation of an otherwise lawful activity. "Candidate Species"have the full protection of FESA. However, the USFWS advises project applicants that it is prudent to address these species since they could be elevated to "listed status" before the completion of projects with long planning or development schedules.

The Projects that would result in "take" "of any federally-listed threatened or endangered species can obtain authorization from the USFWS through either Section 7 (interagency consultation) or Section 10(a) (incidental take permit) of FESA. The authorization process determines if a project would jeopardize a 'listed species' continued existence and what mitigation measures would be required to avoid jeopardizing the species.

An Incidental Take Permit (ITP) or Take Permit is required when an activity would either kill, harm, harass or interrupt a listed species' breeding or nesting. The FESA definition of "harm" is somewhat less definitive since it includes ubiquitous activities. In 1999, the USFWS clarified the term "harm" as it applies

to the ESA in the Federal Register. As stated, the final rule defined the term "harm" "to include any act that causes actual harm (kills or injures fish or wildlife) and emphasizes that such actions may have significant habitat modification or degradation that significantly impairs essential behavioral patterns of fish or wildlife.

### *California Department of Fish and Wildlife*

The California Department of Fish and Wildlife (CDFW) is a Trustee Agency responsible under the California Environmental Quality Act (CEQA) for reviewing and evaluating project impacts on plant and wildlife resources. Under the Fish and Game Code Section 1802, the CDFW has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitats necessary for biologically sustainable populations. The California Fish and Game Code also provides authority for the CDFW to regulate projects that could result in the "take" of any species listed by the State as threatened or endangered (Section 2081). CDFW also has authority over all state streams, as described below.

Perennial and intermittent streams also fall under the jurisdiction of CDFW according to Sections 1601-1603 of the Fish and Game Code (Streambed Alteration Agreements). CDFW's jurisdictional extent includes work within the stream zone, including the diversion or obstruction of the natural flow or changes in the channel, bed, or bank of any river, stream, or lake. Before issuing a 1601 or 1603 Streambed Alteration Agreement, the CDFW must demonstrate compliance with CEQA. In most cases, CDFW relies on the CEQA review performed by the local lead agency. However, in cases where no CEQA review was required for the project, CDFW would act as the lead agency under CEQA.

The CDFW also has the authority to protect state-listed species issues under Section 2081 Incidental Take Permit if a project has the potential to negatively affect state-protected plant or animal species or their habitats, either directly or indirectly. Protected species include those "listed" by the State as endangered or threatened. Besides listed species, other species protection categories include "fully protected" and California Species of Special Concern (CSC). Adverse impacts to species that are "fully protected" are prohibited.

Under the California Fish & Game Code (FGC Section 3503), "it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird…." Birds of prey (falcons, hawks, owls, and eagles) get extra protection under the law (FGC Section 3503.5).

As with USFWS, CDFW does not have the authority to require a landowner to apply for an ITP authorizing take. Instead, the landowner is legally obligated to avoid taking state-listed species if it does not seek an ITP. CDFW (and USFWS) can initiate an enforcement action if they believe that an illegal take has occurred or will occur.

## California Endangered Species Act

The California Endangered Species Act (CESA) protects candidate plants and animal species and those listed under CESA as rare, threatened, or endangered. CESA prohibits the taking of any such species unless authorized. Section 2081 authorizes the State to issue ITPs. The state definition of taking applies only to acts that result in death or adverse impacts on protected species. The CESA mirrors the federal regulation as it relates to "take"; however, there is no State equivalent definition of "harm" or "harass." Incidental take is also not defined by the CESA statute or regulation. Unlike FESA, CESA does qualify that incidental take "is not prohibited if it is the result of an act that occurs on a farm or ranch during an otherwise lawful

routine and ongoing agricultural activity." Where disagreement occurs (and in some cases, this has been the subject of court cases) is in the common understanding of “routine and ongoing agricultural activity."

## California Environmental Quality Act

The CEQA Guidelines require a review of projects to determine their environmental effects and identify mitigation measures to reduce impacts to a less than significant level. The Guidelines state that an effect may be significant if it affects rare and endangered species. Section 15380 of the Guidelines defines *rare* to include listed species and allows agencies to consider rare species other than those designated as State or Federal threatened or endangered but that meet the standards for rare under the Federal or State endangered species acts. On this basis, plants designated as rare by non-regulatory organizations (e.g., California Native Plant Society), species of special concern defined by CDFW, candidate species defined by USFWS, and other designations must be considered in CEQA analyses.

## Land Use Entitlements

### *City of Clovis*

The Project site is located in Madera County. The City is responsible for all local land-use decisions within its jurisdiction under CEQA and would serve as the lead agency. As the lead agency, the City will consider the recommendations of other responsible agencies during the CEQA review.




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Study Area (±15 acres)

**Figure 2**

**STUDY AREA/AERIAL**

TM 6467 PERRIN AVE AND MINNEWAWA

*Fresno Coun*

ARGONAUT ECOLOGICAL CONSULTING INC.

Aerial Source: Google Earth (06/2022)

# 3.0 PHYSICAL RESOURCES, RESULTS, AND CONCLUSIONS

Section 3.1, below, describes the physical features (i.e., land use, soils, vegetation, hydrology, etc.) and the study area's biological features. The physical components and land use strongly influence the types of plants and animals present. This section also describes the habitats present and the specific biological resources observed during the site review.

Section 3.2 presents conclusions, and Section 3.3 contains recommended avoidance and minimization measures to avoid potential impacts.

The following is not an exhaustive inventory of plants and animals present. Instead, the discussion provides sufficient information to characterize the habitat and habitat components present on site. This field survey identified the biological resources present. The biological evaluation discusses the habitat present and the potential for that habitat to support any species considered unique, sensitive, or protected by current law. The conclusion section (3.2) summarizes the results of the data review, fieldwork, and evaluation of biological resources and potential impacts. The conclusion sections also include recommendations for measures to minimize any potential impacts.

## 3.1 PHYSICAL RESOURCES

### *Climate*

The Study Area climate is typical of the central San Joaquin Valley, with long, hot, dry summers and cool, mild winters. In the winter, rainfall averages approximately 9.99 inches per year, falling mainly between November and April (Western Regional Climate Center, 2004). During 2021, the Fresno region had a total of 8.22 inches of rainfall; in 2022, there was a total of 5.43 inches. Since the fall of 2022, the regional rainfall near Fresno region totaled 21 inches (through May 2023).

### *Topography, Drainage, and Soils*

The Study Area lies within the Central Valley and is 375 feet (above mean sea level). The elevation has remained roughly the same since the early 1900s. The Study Area slopes toward the southwest. Figure 3 shows a topographic map of the area from 1922.

### *Land Use*

The Study Area is historically rural agricultural in Clovis, but the existing homes sites have been there since 1993. The property is currently zoned as AE-20 (agricultural). The surrounding land uses is agriculture.

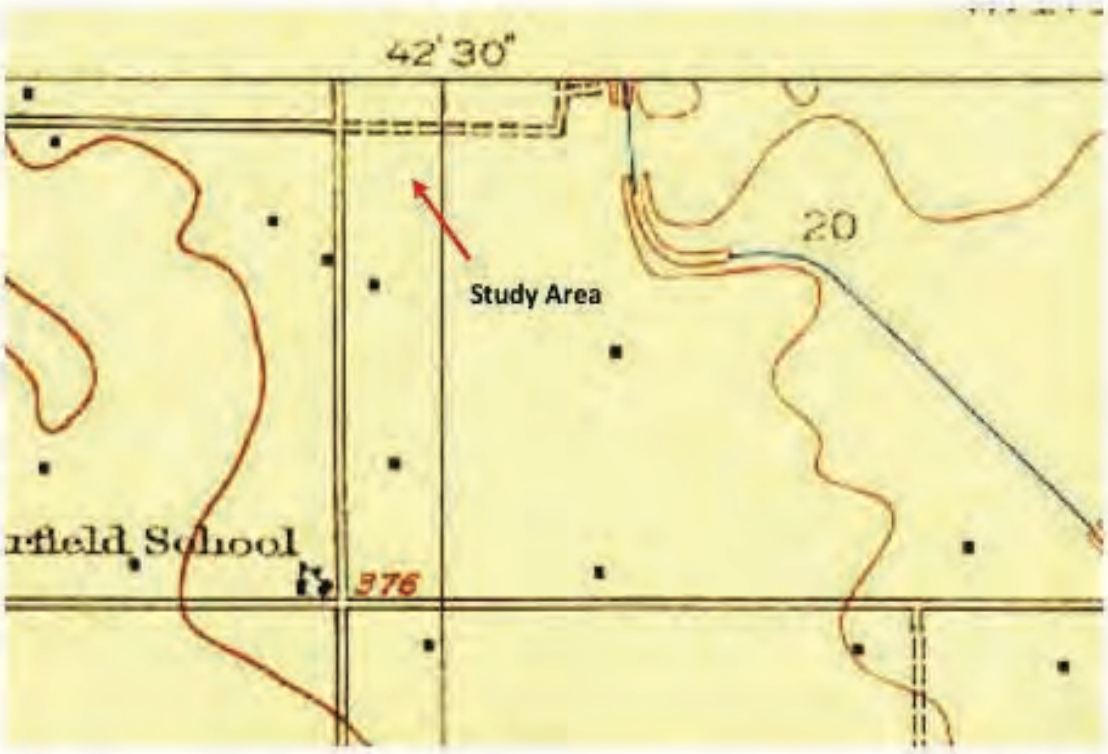


Figure 3

Topographic Map 1922

ARGONAUT ECOLOGICAL CONSULTING, INC.

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brome, and mustard. There is a hedge row of wild rose along a portion of the southern property boundary. The property immediately south of the Study Area is under development (construction). There are a few scattered old orchard trees, a Cyprus tree, and numerous landscape trees (Japanese zelkova, glossy privet, white mulberry, etc.) in the Study Area. There are also areas of bare ground (horse paddock), paved areas (driveways), and a few large mature trees (eucalyptus, locust, and olive). In the northern portion of the Study Area, there is a landscape mound in the front yard of the vacant home that supports a colony of ground squirrels. No evidence of burrowing owl was found, but future occupation is possible given the presence of suitable burrows.

Bird species observed include mourning dove, starling, and crow. There are several large mature trees within and adjacent to the Study Area. There is also a hedge row of rose bushes along the southern edge of the Study Area and other shrubs within the site that could be used for nesting habitat for migratory species

### *Waters/Wetland*

According to the National Wetland Inventory (NWI) Map there are no mapped Waters (streams, drainages, wetlands) within or near the Study Area. The entire Study Area was walked to look for any evidence of potential wetlands/waters or any other aquatic habitat (either perennial or seasonal), and none were present.

A dry stock pond is located in the southeast corner of the Study Area. This feature was excavated in an upland area sometime between 1999-2022. The surrounding pastureland appears to be irrigated (based on a review of aerial photographs from 2002-20222). There is no wetland habitat within this dry feature. The soils were inspected to determine if they were hydric (wetland soils), and no hydric soils were present. This feature is not a wetland.

### *Special Status Species*

A query of the California Natural Diversity Database (CNDDB) (Attachment B) and the USFWS IPaC was performed to determine which special status species could be present within the Study Area. No critical habitat exists for any species within or near the Study Area. The CNDDB Bios mapping is shown in Figure 5. This map shows the location of known records of special status species near the Study Area, and Table 1 includes a summary of the CNDDB query results.

#### *Birds*

The CNDDB and the IPaC include bird species potentially present within or near the Study Area, including migratory birds. Swainson's hawk (*Buteo swainsoni)* is a large raptor, a State threatened species that nests in mature trees and forages within agricultural areas. Burrowing owl **(***Athenea cunicularia)* is a small ground-nesting owl (California species of special concern) that depends on ground-burrowing mammals for burrows for nesting. Some suitable habitat is present for this species.

#### *Amphibians, Reptiles, and Invertebrates*

Numerous invertebrate species are included in the CNDDB. No suitable habitat is present for the identified species.

*Plants*

The CNDDB includes four special status species listed within the region. No suitable habitat exists for any special-status plant species within or near the Study Area.




**Figure 4**
**HABITAT MAP**
TM 6467 PERRIN AVE AND MINNEWAWA
*Fresno Coun*

ARGONAUT ECOLOGICAL CONSULTING INC.

Aerial Source: Google Earth (06/2022)

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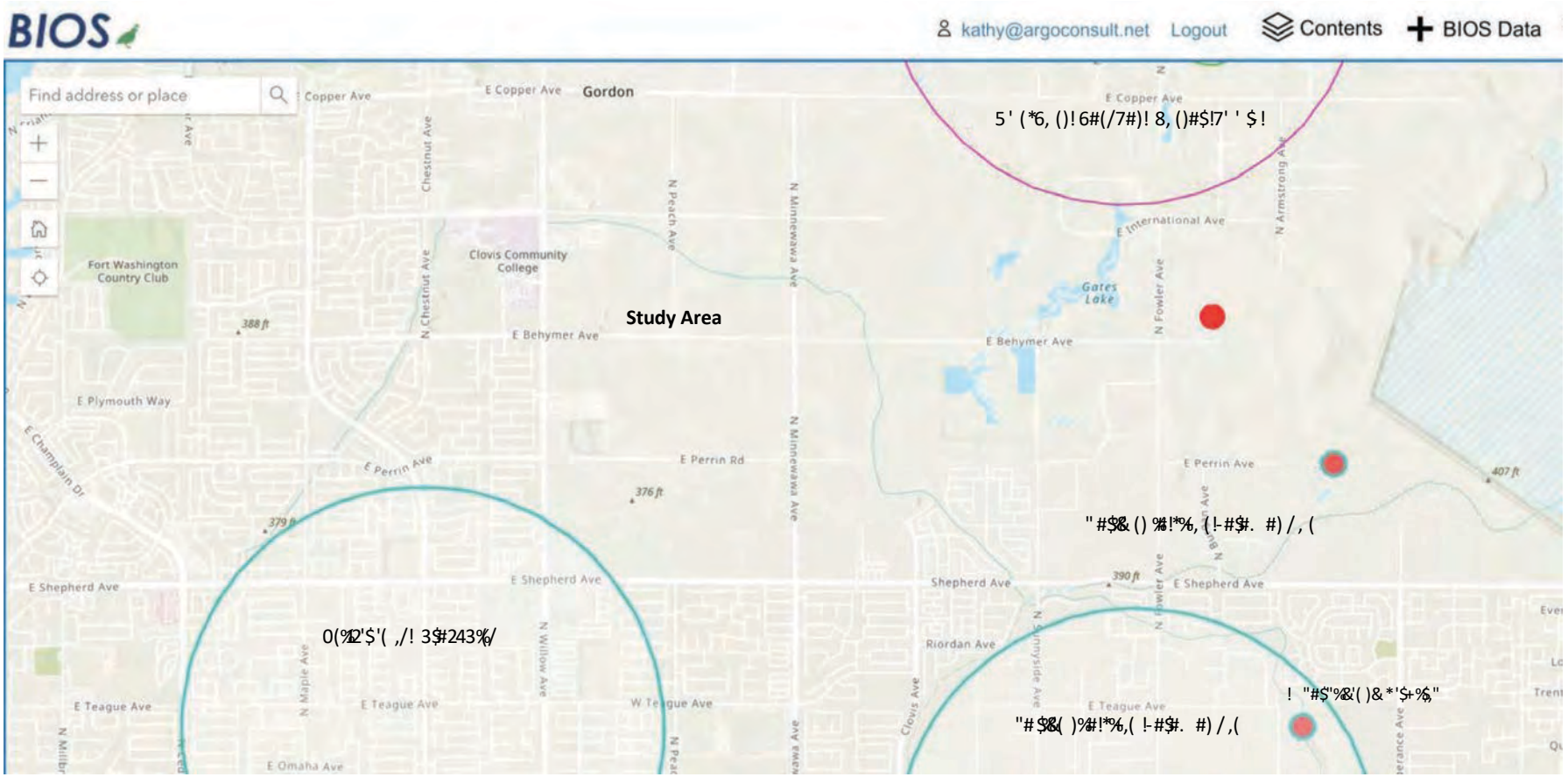
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## Table 1
## Summary of Special Status Species, Potential Occurrence, and Impact

| Common Name | Scientific Name | Status[1] | Effects[2] | Occurrence in the Study Area[3] |
|---|---|---|---|---|
| **Mammals** | | | | |
| American badger | *Taxidea taxus* | --/-- | NE | **Absent.** Occurs in open areas with a suitable prey base (small rodents and mammals). Burrows underground. No evidence of occupation within the Study Area and no suitable prey base was observed. |
| **Birds** | | | | |
| Western yellow-billed cuckoo | *Coccyzus americanus occidental* | FT/CE | NE | **Absent.** Associated with riparian corridors near streams and other water bodies. No suitable habitat is present. |
| Tricolored blackbird | *Agelaius tricolor* | --/CT | NE | **Absent.** Nests in tule stands or other emergent habitat. No suitable habitat present. |
| Burrowing owl | *Athenea cunicularia* | --/-- SSC | ME | **Potentially Present.** Associated with a ground burrowing mammals (i.e. ground squirrels). Found in open grassland with suitable prey base. Ground squirrels within the Study Area. |
| Least Bell's vireo | *Vireo bellii pusillus* | FE/CE | NE | **Absent.** Associated with willow riparian habitat. No suitable habitat present. |
| Swainson's hawk | *Buteo swainsoni* | --/CT | ME | **Potentially Present.** Nests in mature trees. A few mature trees are within or immediately adjacent to the Study Area. No old nests were observed. Hawk could occasionally forage within the area. |
| Double-crested cormorant | *Nannoperum auritum* | --/-- | NE | **Absent.** Nests in riparian habitat over water. No suitable habitat present. |
| **Amphibians, Reptiles, and Invertebrates** | | | | |
| California tiger salamander | *Ambystoma californiense pop 1* | FT/CT | NE | **Absent.** Breeds in seasonal wetlands/vernal pools or stock ponds without a predator population. No suitable breeding habitat is present, and no breeding habitat within 1.3 miles of the Study Area, thus indicating the site is not used for upland aestivation. |
| Western spadefoot | *Spea hammondii* | --/-- | NE | **Absent.** Requires seasonal wetlands for breeding and no suitable habitat on or near the Study Area. |
| Coast horned lizard (Blainville's horned lizard) | *Phrynosoma blainvillii* | --/-- | NE | **Absent.** Blainville's Horned Lizards are frequently found near ant hills in open areas of sandy soil and low vegetation in valleys, foothills, and semiarid mountains. Found in grasslands, coniferous forests, woodlands, and chaparral, with open areas and |

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|---|---|---|---|---|
| | | | | patches of loose soil. Often found in lowlands along sandy washes with scattered shrubs and dirt roads. The only known records within the Fresno Region are four records from the 1800s. |
| Northern California legless lizard | *Anniella pulchra* | --/-- | NE | **Absent.** Occurs in moist, warm loose soil with plant cover. Moisture is essential. Two individuals collected in the Fresno region in 1880. No suitable habitat present within or near the Study Area. |
| Western pond turtle | *Emys marmorata* | FC/-- | NE | **Absent.** Semi-aquatic turtle. No suitable habitat present within or near the Study Area. |
| California glossy snake | | --/-- SSC | NE | **Absent.** One record from Fresno region in 1890. Reported from a range of scrub and grassland habitats, often with loose or sandy soils. |
| Vernal pool fairy shrimp | *Branchinecta lynchi* | FT/-- | NE | **Absent**. No suitable habitat onsite since there are no seasonal wetlands or ponds within the Study Area. |
| California linderiella | *Linderiella occidentalis* | --/-- | NE | **Absent**. No suitable habitat onsite since there are no seasonal wetlands or ponds within the Study Area. |
| Crotch bumble bee | *Bombus crotchii* | --/CC | NE | **Likely Absent.** Most observations of this species occur in southern California coastal areas. One record from Fresno (1892). Inhabits grassland and scrub areas, requiring a hotter and drier environment than other bumblebee species. The presence of a small habitat unit makes it unlikely that a species is present. |
| American bumble bee | *Bombus pensylvanicus* | --/-- | NE | **Likely absent.** Habitat requirements |
| Hurd's metapogon robberfly | *Metapogon hurdi* | --/-- | NE | **Absent**. Limited habitat information is available. Known from dunes at Antioch and in Fresno. |
| Antioch efferian robberfly | *Efferia antiochi* | --/-- | NE | **Absent**. Little habitat information available. Known from dunes at Antioch, Fresno, Scout Island, and San Joaquin River, |
| Molestan blister beetle | *Lytta molesta* | --/-- | NE | **Absent.** Occurs in wetlands and vernal pools—no specific occurrence. No suitable habitat is present within the Study Area. |
| **Plants** | | | | |
| Sanford's arrowhead | *Saggittaria sanfordii* | --/-- | NE | **Absent.** Inhabitants slow-moving streams and sloughs. No suitable habitat present. |
| California jewelflower | *Caulanthus californicus* | FE/CE | NE | **Absent.** Chenopod scrub, valley, and foothill grassland. No suitable habitat present. |
| Greene's tuctoria | *Tuctoria greenei* | FE/-- Rare 1B.1 | NE | **Absent.** Dry bottom of vernal pools in open grassland habitat. No suitable habitat present. |
| Madera leptosiphon | *Le[tpso[jpm serri;atis* | --/-- | NE | **Absent.** Cismontane woodland, lower montane coniferous forest. No suitable habitat present. |

1 **Status= Listing of special status species, unless otherwise indicated**

CE: California listed as Endangered

CT: California listed as Threatened

CC: California candidate species

SSC: California Species of Special Concern

FE: Federally listed as Endangered FT: Federally listed as Threatened

2 **Effects = Effect determination**

NE: No Effect

ME: May Effect, not likely to adversely affect

**Definition of Occurrence Indicators**:

**Present/Potentially**: Species recorded in the area and some habitat elements in the Study Area similar to known occurrences.
**Absent/Likely Absent**: Species not recorded in Study Area and suitable or critical habitat components are absent.

***Source: CNDDB = California Natural Diversity Database provided by CDFG and U.S. Fish and Wildlife Service, Information for Planning and Consultation (IPaC). Accessed online on November 4, 2023.***

## 3.2 CONCLUSIONS

**CONCLUSIONS**

- The Study Area has been developed for rural residential/small farms.
- The habitat value of the Study Area is limited and consists of landscape areas, formerly irrigated pasture, ruderal (disturbed habitat), and a horse paddock. The only wildlife observed were a few birds and ground squirrels.
- The Study Area has some suitable nesting habitat for raptors and migratory birds.
- The Study Area has some ground-burrowing mammal burrows (active).
- No potential waters (Federal or State waters) or wetlands exist within or near the Study Area.

**RECOMMENDATION**

If ground disturbance (including grading, grubbing, home demolition, tree removal, or construction equipment and materials mobilization) is initiated during the nesting season (Feb 1 – Aug 31), a pre-construction survey for potential nesting raptors, migratory birds, and burrowing is recommended.

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# Attachment A: Photographs

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ARGONAUT ECOLOGICAL CONSULTING, INC.

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# CULTURAL RESOURCE ASSESSMENT FOR THE

# TENTATIVE MAP 6467 PROJECT

# CITY OF CLOVIS, CALIFORNIA

Prepared by

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(Job #23-100)

## INTRODUCTION

Bonadelle Neighborhoods proposes to build residential homes on a 15-acre property located at the southeast corner of the intersection of Perrin Avenue and Minnewawa Avenue in Clovis, California. The project site is made up of four previously developed parcels. The Proposed Project would include the development of 162 single-family homes, and a 13-acre park/green space, and two points of ingress/egress (one on Minnewawa Avenue and the other on Perrin Avenue). The total anticipated density is 11.61 units per acre. One outlet is in the northeast corner at the intersection of Perrin Avenue and Clovis Avenue. The timing and phasing would depend on market conditions.

The site is a portion of the southeast quarter of Section 20, Township 12 South, Range 21 East, Mount Diablo Base and Meridian, and mapped on the Clovis USGS topographic quadrangle (Figures 1 and 2).

Melinda A. Peak, senior historian/archeologist with Peak & Associates, Inc. served as principal investigator for the study with Michael Lawson (resumes, Appendix 1) completing the field survey.

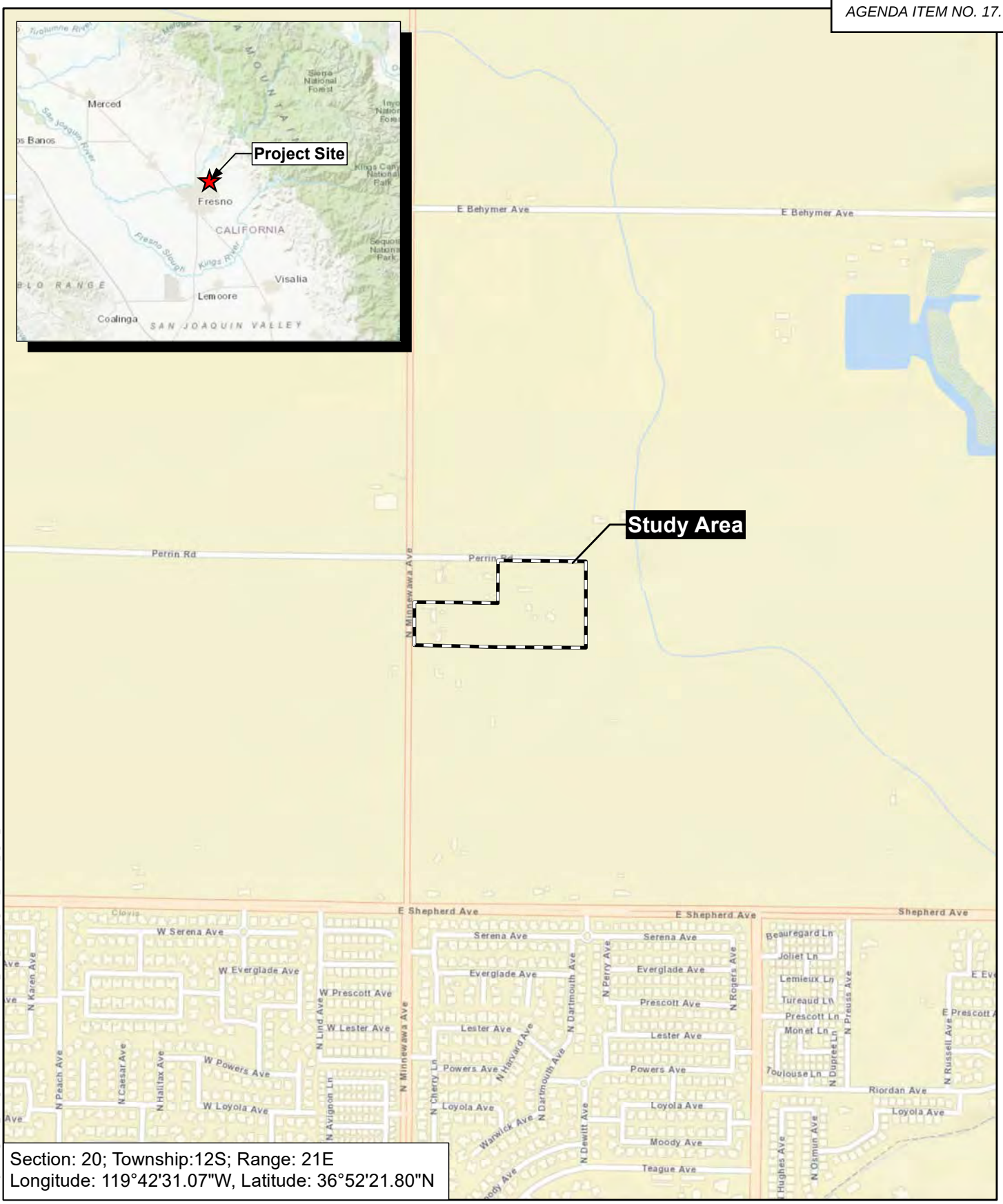
## STATE REGULATIONS

State historic preservation regulations affecting this project include the statutes and guidelines contained in the California Environmental Quality Act (CEQA; Public Resources Code sections 21083.2 and 21084.1 and sections 15064.5 and 15126.4 (b) of the CEQA Guidelines). CEQA Section 15064.5 requires that lead agencies determine whether projects may have a significant effect on archaeological and historical resources. Public Resources Code Section 21098.1 further cites: A project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment.

An "historical resource" includes, but is not limited to, any object, building, structure, site, area, place, record or manuscript that is historically or archaeologically significant (Public Resources Code section 5020.1).

Advice on procedures to identify such resources, evaluate their importance, and estimate potential effects is given in several agency publications such as the series produced by the Governor's Office of Planning and Research (OPR), *CEQA and Archaeological Resources,* 1994. The technical advice series produced by OPR strongly recommends that Native American concerns and the concerns of other interested persons and corporate entities, including, but not limited to, museums, historical commissions, associations and societies be solicited as part of the process of cultural resources inventory.

In addition, California law protects Native American burials, skeletal remains, and associated grave goods regardless of the antiquity and provides for the sensitive treatment and disposition of




Section: 20; Township:12S; Range: 21E
Longitude: 119°42'31.07"W, Latitude: 36°52'21.80"N

N

0 500 1,000
Feet

**Figure 1**

## REGIONAL LOCATION AND VICINITY

TM 6467 PERRIN AVE AND MINNEWAWA

*Fresno Coun*

ARGONAUT ECOLOGICAL CONSULTING INC.

Basemap Source: ESRI (2023)

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Feet

N

Study Area (±15 acres)

**Figure 2**

**STUDY AREA/AERIAL**

TM 6467 PERRIN AVE AND MINNEWAWA

*Fresno Coun*

ARGONAUT ECOLOGICAL CONSULTING INC.

Aerial Source: Google Earth (06/2022)

those remains (California Health and Safety Code Section 7050.5, California Public Resources Codes Sections 5097.94 et al).

**The California Register of Historical Resources (Public Resources Code Section 5020 et seq.)**

The State Historic Preservation Office (SHPO) maintains the California Register of Historical Resources (CRHR). Properties listed, or formally designated as eligible for listing, on the National Register of Historic Places are automatically listed on the CRHR, as are State Landmarks and Points of Interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys.

For the purposes of CEQA, an historical resource is a resource listed in, or determined eligible for listing in the California Register of Historical Resources. When a project will impact a site, it needs to be determined whether the site is an historical resource. The criteria are set forth in Section 15064.5(a) (3) of the CEQA Guidelines, and are defined as any resource that does any of the following:

A. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;

B. Is associated with the lives of persons important in our past;

C. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or

D. Has yielded, or may be likely to yield, information important in prehistory or history.

In addition, the CEQA Guidelines, Section 15064.5(a) (4) states:

> The fact that a resource is not listed in, or determined to be eligible for listing in the California Register of Historical Resources, not included in a local register of historical resources (pursuant to section 5020.1(k) of the Public Resources Code), or identified in an historical resources survey (meeting the criteria in section 5024.1(g) of the Public Resources Code) does not preclude a lead agency from determining that the resource may be an historical resource as defined in Public Resources Code section 5020.1(j) or 5024.1.

**California Health and Safety Code Sections 7050.5, 7051, and 7054**

These sections collectively address the illegality of interference with human burial remains, as well as the disposition of Native American burials in archaeological sites. The law protects such remains from disturbance, vandalism, or inadvertent destruction, and establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project, including the treatment of remains prior to, during, and after evaluation, and reburial procedures.

**California Public Resources Code Section 15064.5(e)**

This law addresses the disposition of Native American burials in archaeological sites and protects such remains from disturbance, vandalism, or inadvertent destruction. The section establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project and establishes the Native American Heritage Commission as the entity responsible to resolve disputes regarding the disposition of such remains.

**Assembly Bill 52**

Assembly Bill (AB) 52 establishes a formal consultation process for California tribes as part of CEQA and equates significant impacts on tribal cultural resources with significant environmental impacts. AB 52 defines a "California Native American Tribe" as a Native American tribe located in California that is on the contact list maintained by the Native American Heritage Commission. AB 52 requires formal consultation with California Native American Tribes prior to determining the level of environmental document if a tribe has requested to be informed by the lead agency of proposed projects. AB 52 also requires that consultation address project alternatives, mitigation measures, for significant effects, if requested by the California Native American Tribe, and that consultation be considered concluded when either the parties agree to measures to mitigate or avoid a significant effect, or the agency concludes that mutual agreement cannot be reached. Under AB 52, such measures shall be recommended for inclusion in the environmental document and adopted mitigation monitoring program if determined to avoid or lessen a significant impact on a tribal cultural resource.

## CULTURAL SETTING

**Archeology**

The Central Valley region was among the first in the state to attract intensive fieldwork, and research has continued to the present day. This has resulted in a substantial accumulation of data, but the emphasis has been in the northern portion of the valley. In the early decades of the 1900s, E.J. Dawson explored numerous sites near Stockton and Lodi, later collaborating with W.E. Schenck (Schenck and Dawson 1929). By 1933, the focus of work was directed to the Cosumnes locality, where survey and excavation were conducted by the Sacramento Junior College (Lillard and Purves 1936).

Excavation data, in particular from the stratified Windmiller site (CA-SAC-107), suggested two temporally distinct cultural traditions. Later work at other mounds by Sacramento Junior College and the University of California, Berkeley, enabled the investigators to identify a third cultural tradition, intermediate between the previously postulated Early and Late Horizons. The three-horizon sequence, based on discrete changes in ornamental artifacts and mortuary practices, as well as on observed differences in soils within sites (Lillard, Heizer and Fenenga 1939), was later refined by Beardsley (1954). An expanded definition of artifacts diagnostic of each time period

was developed, and its application extended to parts of the central California coast. Traits held in common allow the application of this system within certain limits of time and space to other areas of prehistoric central California.

In the southern San Joaquin Valley, with the exception of Hewes's excavation at CA-FRE-48 (the Tranquility Site), the foci of early investigations have been the old shorelines of the interior lakes; Tulare, Kern, and Buena Vista. In 1899, Dr. P. M. Jones directed fieldwork in the Buena Vista-Tulare Lake area of Kern County. Jones investigated 150 mounds and conducted trenching of several sites including CA-KER-53. In 1909, N. C. Nelson investigated prehistoric Site CA-KER-49, which is located to the west of Buena Vista Lake. Later, four surveys and excavations were conducted in the same locale under the auspices of the University of California. A compilation of these investigation results was published in 1926 by Gifford and Schenck.

As a result of this early work, an elaborate culture complex was defined for the late prehistoric period. This complex can be ascribed probably to the Yokuts and their direct ancestors. The material culture of this late temporal period complex included steatite vessels and beads, finely-made projectile points, pottery, shaped stone mortars, *Tivela* disc beads, use of asphaltum, and the presence of metates and manos. Flexed burials were the predominant interment mode. Earlier complexes underlying the late cultural expressions were represented by chipped stone crescents, large projectile points, atlatl spurs, and weights. Mortuary practices, generally thought to be related, include extended rather than flexed burial position, a situation analogous to that of the northern valley (Gifford and Schenck 1926; Lillard, Heizer, and Fenenga 1939; Moratto 1972).

Presence of "Early Man," although not found in direct association with extinct animals, is demonstrated by the frequency of chipped stone crescents and fluted points similar to those of the Clovis-Folsom Complex in the American Southwest. Although fluted points have been found near the shores of Tulare Lake, an area that has also produced surface finds of extinct mammal bone of Pleistocene age, the association is not substantiated by controlled excavations and remains speculative (Riddell and Olsen 1969). Most of the point collection had been acquired by D. Witt over a period of 30 years.

Under the direction of Wedel, the Civil Works Administration with the Smithsonian Institution, initiated the first major excavations using stratigraphic controls. Investigations of CA-KER-39 and CA-KER-60 as well as several smaller sites near Buena Vista Lake produced evidence of two distinct cultural entities or occupation periods. Wedel lacked methods for dating these two entities by cross-comparison of the assemblages. He stated that the early occupation at Buena Vista Lake appeared to be temporally older and less developed than the Early Horizon of the Delta region, and compared this early component to the Oak Grove or Milling Stone culture of the Santa Barbara area (Rogers 1939). He divided the later cultural entity into two distinct phases, both clearly distinguished from the earlier cultural phase by artifact types. Wedel (1941:144-145) estimated that neither of these cultural periods exceeded 1500 B.P. (Years Before the Present). Later, other investigators proposed far earlier ages for these early occupations, with dates ranging from 2000 to 7000 B.P. (Baumhoff and Olmstead 1963, 1964; Heizer 1964; Meighan 1959).

Later investigations in 1963 and 1964 at CA-KER-116 near Buena Vista Lake produced materials that appear like those from Wedel's early occupation. These materials occurred in the lower levels of the "upper deposit," while an even deeper cultural deposit yielded materials similar to those of the San Dieguito Complex. Artifacts included a chipped stone crescent, crude point fragments, and an atlatl spur. Radiocarbon age determinations on shell from the lowest cultural levels returned a date of circa 8200 B.P. (Fredrickson and Grossman 1966, 1977; Fredrickson 1967).

Despite the previously mentioned investigations, the prehistory of the southern San Joaquin remains as yet poorly understood, without a tightly defined chronological sequence of cultural development.

**Ethnology**

Ethnographic literature is often uncertain in definition of cultural boundaries for Indian groups. Early displacement by white intrusion resulted in population shifts to avoid conflict with the Spanish, and later with the miners and settlers. The ravages of disease and warfare decimated the native people, further weakening cultural identity. Informants were often uncertain of original territories of the various tribal groupings.

The Foothill Yokuts were members of the Penutian language family which held all of the Central Valley, San Francisco Bay Area, and the Pacific Coast from Marin County to near Point Sur. The Yokuts differed from other ethnographic groups in California as they had true tribal divisions with group names (Kroeber 1925). Each tribe spoke a particular dialect, common to its members, but similar enough to other Yokuts that they were mutually intelligible (Kroeber 1925).

The Foothill Yokuts were a group of about 15 named tribes who occupied the western Sierra Nevada foothills from the Fresno River to the Kern River. A further subdivision separated the groups into northern, central and southern groups. The area controlled by individual groups varied over time. There is no information to indicate that there was a village in the Project vicinity, but this does not preclude the possibility.

Trade was well developed, with mutually beneficial interchange of needed or desired goods. Obsidian, rare in the San Joaquin Valley, was obtained by trade with Paiute and Shoshoni groups on the eastern side of the Sierra Nevada, where numerous sources of this material are located, and to some extent from the Napa Valley to the north. Shell beads, obtained by the Yokuts from coastal people, and acorns, rare in the Great Basin, were among many items exported to the east by Yokuts traders (Davis 1961).

Economic subsistence was based on the acorn, with substantial dependency on gathering and processing of wild seeds and other vegetable foods. The rivers, streams, and sloughs which formed a maze within the valley provided abundant food resources such as fish, shellfish, and turtles. Game, wild fowl, and small mammals were trapped and hunted to provide protein augmentation of the diet.

In general, the eastern portion of the San Joaquin Valley provided a lush environment of varied food resources, with the estimated large population centers reflecting this abundance (Cook 1955; Baumhoff 1963).

Settlements were oriented along the water ways, with their village sites normally placed adjacent to these features for their nearby water and food resources. House structures varied in size and shape (Latta 1949; Kroeber 1925). The housepit depressions ranged in diameter from between 3 to 18 meters.

Latta (1949:99) reported that a village of 200 to 300 Yokuts might have four or five large houses that were used for ten or twelve years or until a family member died, at which time the Indians burned the house in which the death had occurred. If a sick or aged person died outside the dwelling, the family did not burn the house. When a Northern Yokuts died, his body was cremated or buried in a flexed position. Southern tribes normally buried their dead, although they did cremate shamans, persons who died away from their village and, among the Tachi, persons of great importance.

The Yokuts experienced severe depopulation after contact with the Spanish and subsequent explorers. The most devastating impacts of the Spanish colonization effort were not the result of military conflicts, but came from Old World diseases newly introduced to the native people.

## Historical Context

### Early Explorations

The early recorded inhabitants of the region were members of the Yokuts tribe. Although the Spanish missions were established closer to the Pacific coast between 1769 and 1817, the general Project site area was first visited in the early 1800s by Spanish explorers, who visited the San Joaquin Valley with three goals: to search for runaway neophytes from the missions in the coastal regions, to punish the Indian raiders, and to select sites for new missions. In 1806, a group led by Gabriel Moraga and Father Pedro Muñoz, left Mission San Juan Bautista heading north to about the Mokelumne River**.** They then turned south, and travelled along the edge of the mountains crossing the San Joaquin River and passing through Tejon Pass, arriving at Mission San Fernando. In 1815, José Dolores Pico marched an expedition group from Monterey into the region. Following the San Joaquin River, he passed through the area in search of runaways, traveling as far south as the Kern River. The expedition returned to the starting point in Monterey with nine prisoners and a number of horses.

After control of California passed from Spain to Mexico in 1822, Mexican explorations into the interior continued, with José Dolores Pico conducting a major expedition along the San Joaquin River in 1825-1826. This expedition was considered successful in that some neophytes were captured, hostile Indians killed, some of the tribal groups intimidated, and some stolen horses recovered. In 1828, Sebastián Rodríguez led a similar expedition into the same region. His expedition captured a number of neophytes as well as some of the stolen horses, an item that had

become an important dietary staple for the Indian tribes in the San Joaquin Valley region (Beck and Haase 1974).

The early expeditions did not leave physical evidence, but the Native American populations were affected severely by the diseases brought in to the Native populations of the Central Valley in the early 1830s.

**Later History**

The extension of the railroad system throughout the San Joaquin Valley allowed the increased expansion of a market for the agricultural production of the region. A branch line of the Southern Pacific Railroad (first known as the Pollasky Railroad or the San Joaquin Railroad) was built through this region circa 1891. Marcus Pollasky served as the promoter, and monies were raised locally for the construction costs. Clovis Cole, the owner of the large wheat ranch, donated land for the route, and a station was established here on the line and named Clovis (Gudde 1969; City of Clovis 1962).

After the completion of the railroad, the construction of the flume from Shaver Lake to the east was soon completed by the Fresno Flume and Irrigation Company. The 45-mile-long flume could deliver 200,000 board feet of lumber through the vee-shaped watercourse in a 24-hour period. At the end of the flume, there was a finishing and distributing plant. Other, better grade lumber was delivered to Clovis down Tollhouse Grade, hauled by ox and horse teams. In the early years, 140 men were employed by the lumber company, with an annual payroll of $450,000. The Clovis lumber plant occupied a 40-acre site. The factory, warehouse, planing mill and engine house all burned to the ground in 1898, but were soon rebuilt. As many as 400 men were employed by the company. The mill was located on the south side of Fifth Street (City of Clovis 1962; Clovis Centennial Book Committee 2011).

The mill in Clovis produced “ordinary lines of lumber,” shakes, trays, sweat boxes, raisin boxes, orange boxes, cedar posts, ties, poles, also pine and oak cordwood (*Fresno Republican* 1897: 96). The ever-increasing agricultural use of the San Joaquin Valley, due to improvements and expansion of irrigation systems, led to a large market for the fruit packing boxes, allowing shipment of the produce to a wider marketplace.

Clovis was laid out by a licensed surveyor, working for the co-owners of the land: Clovis Cole, Clarence Pallos, and George Owen. Early homes were utilitarian, and the streets were ungraded (City of Clovis 1962).

The town’s population expanded rapidly from about 500 residents in 1905 to about 1,000 in 1910. Nearby, the population was increasing within the local rural agricultural colonies, with large acreages broken up into 20-acre tracts advertised for sale to Midwesterners. By 1919, local population had grown to 1,500. At this point, the lumber business is still the main support of the economy, but the area produced huge crops of Malaga grapes and figs (Clovis Centennial Book Committee 2011; Vandor 1919:269).

For the first 21 years, there was no organized government in Clovis. Late in 1911, and election was held, and the City of Clovis incorporated in 1912. Most of the early businesses in town were located on Front Street, now known as Clovis Avenue, on the west side of the tracks (City of Clovis 1962).

## RESEARCH

A record search was conducted for the project site area, with a 0.25-mile radius, through the Southern San Joaquin Valley Archaeological Information Center of the California Historical Resources Information System on November 11, 2023 (RS#23-469, Appendix 2).

There are no resources reported in the project site area. Within a 0.25-mile buffer, the Enterprise Canal has been recorded as P-10-005934. Three different surveys have covered portions of the project site (FR-1219, FR-02203, and FR-02289, see Report list, Appendix 2).

## FIELD ASSESSMENT

Michael Lawson conducted a field survey of the project site on November 16, 2023, using complete inspection techniques where possible. The survey area is in a rural agricultural location with no crops or livestock present. Soil is tilled or fallow with dry grass stubble. Fields are flat and possibly leveled but no difference in elevation between plots. Modern barbed wire fencing with wooden and steel t-posts encompasses the agricultural fields.

The soil type and coloration are similar throughout the survey area with very slight variation because of increased organic components in areas used for livestock and crops, or around residences. Soil type appears as silty sand, tan in appearance, with little stone component larger than pea-sized pebbles of sandstone and granitic elements such as feldspar, mica, and quartz.

Trees and plants are mostly present around buildings and include introduced palm, mimosa, privet, and eucalyptus, along with grasses. Native trees and plants include datura, coyote melon, valley oak and black walnut.

Ground visibility was good throughout the survey area due to tilling, weed control, animal paths and burrowing animal activity.

In open fields, 10-meter wide parallel transects were walked for general coverage. Closer inspection no more than 2 meters wide was used around and between buildings.

No prehistoric resources were observed during the survey. Three residences on the property are more than 50 years in age, and each has been recorded and evaluated. DPR 523 forms are available in Appendix 3.

## SITE DESCRIPTIONS

### 4165 E Perrin Avenue

The residence is currently vacant and boarded-up. The complex includes a Ranch-style home, consistent with 1950s-1960s construction style and building components, including stucco siding, poured concrete foundation, attached open breezeway parking, and brick chimney. Door and window styles are unknown due to boarding. Electrical and plumbing hardware match equipment available between 1950-1970. It was constructed in 1959, according to the County Assessor.

The house features a carport on the eastern end of the building, which appears to have been created by knocking out walls at this end leaving the roof. This leaves the brick chimney at the northeast corner of the living area, which is not likely to have been its original situation.

There are two outbuildings. The first is a low barn or equipment shed with an open parking stall on one end. The windows are an aluminum-framed crank-out type and a steel-framed multi pane type. Exterior siding is rough paneling, and roof is wooden shake—possibly original. The foundation is not visible for inspection and thus unknown in type. The era of construction appears to be about the same as that of the residence.

The other outbuilding is a small shed with the same siding as the first outbuilding, but with a corrugated steel roof, wooden framed windows, and unknown foundation.

### 9452 N Minnewawa Avenue

There are two residences at this address. One residence, currently occupied by the original owner, is a long narrow building, oriented north-south and set back from the street. The other is north of the first and oriented east-west. This is a modern home, dated 2008 per Assessor, and is currently vacant. Google Earth historic aerials confirm the construction date and indicate that the building replaced a storage structure that had occupied the area.

The owner claims the occupied house was built in the mid-1960s, which is consistent with its appearance and other houses in the immediate area. It is a Ranch Style with aluminum-framed windows, wood panel and stucco siding, new replacement composite roofing, brick chimney and a poured concrete foundation. It is a side-gabled building with a cross gable on the north side. This appears to be strictly decorative, because it does not extend out from the main mass of the building on the front and does not appear on the rear elevation at all. About 40% of Ranch houses have a cross gable (McAlester, 2015:598).

The rear has roof extensions for the full width of the building supported by square wood columns This is uncommon in Ranch-style houses in general. Behind both houses is a detached two-car garage with plywood siding, roller steel doors, composite roofing, and a poured concrete

foundation. Its age appears consistent with 1980s construction.

**9534 N Minnewawa Avenue**

This building, currently occupied by a renter, is reported to have been constructed in the late 1960s by the owner and in 1965 by the County Assessor. There is a shed in the same style as the house, identified by the owner as built at the same time as the residence.

The house has combined stucco/brick exterior, attached garage, concrete foundation, replacement composite roofing, wide eaves, replacement vinyl-framed windows and electrical and plumbing equipment consistent with a 1960s construction date.

The house does not fit comfortably into any defined style in residential architecture. It has most in common with Minimal Traditional, in that it has no architectural decorative features at all. However, it is newer than the dates when most Minimal Traditional homes were built, and it has other features that do not conform. It is a side gabled building with an attached garage on the south under its own gable and two cross-gabled sections facing the street (west) flanking the entry way. On the rear the northern side gable is repeated, but most of the rear is occupied by a shed roofed segment facing an in-ground pool. This may be a feature added after the initial construction.

## EVALUATION OF RESOURCES

All buildings, built between 1959 and 2008, are of relatively recent construction in the same styles of many residential buildings in California in the post-World War II era. Under the California Register of Historical Resources (CRHR), a building can be significant if it is associated with an important event (Criterion A). No known important events took place on this property. Similarly, a building could be important for tis association with a person important in the past (Criterion B). There appears to be no such association with past owners of the parcels. The third applicable criterion for judging importance, Criterion C, is related to the style or design of the buildings. The buildings are all average examples of their style, with many far better examples are present throughout Clovis and California. We conclude that the buildings are not important and there are no significant properties in the project area.

## RECOMMENDATIONS

Although no prehistoric sites were found during the survey, there is a slight possibility that a site may exist and be totally obscured by vegetation, fill, or other historic activities, leaving no surface evidence. Should artifacts or unusual amounts of stone, bone, or shell be uncovered during construction activities, an archeologist should be consulted for on-the-spot evaluation of the finding.

**Discovery of Human Remains**

In the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area suspected to overlie adjacent remains until the Fresno County Coroner has determined that the remains are not subject to any provisions of law concerning investigation of the circumstances, manner and cause of death, and the recommendations concerning the treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative. The coroner shall make his or her determination within two working days from the time the person responsible for the excavation, or his or her authorized representative, notifies the coroner of the discovery or recognition of the human remains.

If the Fresno County Coroner determines that the remains are not subject to his or her authority and if the County Coroner recognizes the human remains to be those of a Native American or has reason to believe that they are those of a Native American, he or she shall contact, by telephone, the Native American Heritage Commission (NAHC).

After notification, the NAHC will follow the procedures outlined in Public Resources Code Section 5097.98, that include notification of most likely descendants (MLDs), and recommendations for treatment of the remains. The MLDs will have 48 hours after notification by the NAHC to make their recommendations (PRC Section 5097.98).

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# APPENDIX 1

## Resumes

**PEAK & ASSOCIATES, INC.**
**RESUME**

**MELINDA A. PEAK** **January 2023**
**Senior Historian/Archeologist**
3941 Park Drive, Suite 20 #329
El Dorado Hills, CA 95762
(916) 939-2405

## PROFESSIONAL EXPERIENCE

Ms. Peak has served as the principal investigator on a wide range of prehistoric and historic excavations throughout California. She has directed laboratory analyses of archeological materials, including the historic period. She has also conducted a wide variety of cultural resource assessments in California, including documentary research, field survey, Native American consultation, and report preparation.

In addition, Ms. Peak has developed a second field of expertise in applied history, specializing in site-specific research for historic period resources. She is a registered professional historian and has completed a number of historical research projects for a wide variety of site types.

Through her education and experience, Ms. Peak meets the Secretary of Interior Standards for historian, architectural historian, prehistoric archeologist, and historic archeologist.

## EDUCATION

M.A. - History - California State University, Sacramento, 1989
Thesis: *The Bellevue Mine: A Historical Resources Management Site Study in Plumas and Sierra Counties, California*
B.A. - Anthropology - University of California, Berkeley

## PROJECTS

In recent months, Ms. Peak has completed several determinations of eligibility and effect documents in coordination with the Corps of Engineers for projects requiring federal permits, assessing the eligibility of a number of sites for the National Register of Historic Places.

She has also completed historical research projects on a wide variety of topics for a number of projects including the development of navigation and landings on the Napa River, wineries, farmhouses dating to the 1860s, bridges, an early roadhouse, Folsom Dam, and a section of an electric railway line.

In recent years, Ms. Peak has prepared a number of cultural resource overviews and predictive models for blocks of land proposed for future development for general and specific plans. She has been able to direct many surveys of these areas, allowing the model to be tested.

She served as principal investigator for the multi-phase Twelve Bridges Golf Club project in Placer County. She served as liaison with the various agencies, helped prepare the historic properties treatment plan, managed the various phases of test and data recovery excavations, and completed the final report on the analysis of the test phase excavations of several prehistoric sites. She is currently involved as the principal investigator for the Teichert Quarry project adjacent to Twelve Bridges in the City of Rocklin, coordinating contacts with Native Americans, the Corps of Engineers, and the Office of Historic Preservation.

Ms. Peak has served as project manager for a number of major survey and excavation projects in recent years, including the many surveys and site definition excavations for the 172-mile-long Pacific Pipeline proposed for construction in Santa Barbara, Ventura, and Los Angeles counties. She also completed an archival study in the City of Los Angeles for the project. She also served as principal investigator for a major coaxial cable removal project for AT&T.

Additionally, she completed a number of small surveys, served as a construction monitor at several urban sites, and conducted emergency recovery excavations for sites found during monitoring. She has directed the excavations of several historic complexes in Sacramento, Placer, and El Dorado Counties.

Ms. Peak is the author of a chapter and two sections of a published history (1999) of Sacramento County, *Sacramento: Gold Rush Legacy, Metropolitan Legacy*. She served as the consultant for a children's book on California, published by Capstone Press in 2003 in the Land of Liberty series.

**PEAK & ASSOCIATES, INC.**
**RESUME**

**MICHAEL LAWSON** **January 2023**
**Archeological Field Director**
3941 Park Drive, Suite 20-329
El Dorado Hills, CA 95672
(916) 939-2405

## PROFESSIONAL EXPERIENCE

Mr. Lawson has compiled an excellent record of undertaking excavation and survey projects for both the public and private sectors over the past thirty years. He has conducted a number of surveys throughout northern and central California and Hawaii, as well as serving as an archeological technician, site monitor, crew chief and field director for a number of excavation projects.

Mr. Lawson is qualified by the Bureau of Land Management as a field director for archeological surveys and excavations. In 2022, he led teams as the field director on several field surveys in the Sierras for the proposed undergrounding of PG&E transmission lines, dealing with both historic and prehistoric cultural resources. Lawson works for several firms based in the Sacramento Area and Bay Area.

## EDUCATION

B.A. - Anthropology - California State University, Sacramento

Special Course: Comparative Osteology. University of Tennessee, Knoxville. Forensic Anthropology Center. January 2018.

The special course included: intensive lab and outdoor study with human example from outdoor research facility, including typical and non-metric examples, compared with fifty non-human species most confused with human remains. Work at the outdoor research facility "The Body Farm" study included survey, photography, collection, and identification of faunal and human bone fragments, with a Power Point presentation discussing finds.

## EXPERIENCE

- Extensive monitoring of open space, streets and project development areas for prehistoric period and historic period resources. Areas monitored include Sutter Street in Folsom; Mud Creek Archeological District in Chico; Camp Roberts, San Luis Obispo County; Avila Beach, San Luis Obispo County; Edgewood Golf Course, South Lake Tahoe; Davis Water Project, Davis; Star Bend levee section, Sutter County; Feather River levees, Sutter County; Bodega Bay, Sonoma County; San Jose BART line extension, Santa Clara County; and numerous sites for PG&E in San Francisco.

- Over thirty years of experience working in cultural resource management, volunteer, and academic settings in California historic, proto-historic, and prehistoric archaeology.

- Expertise in pedestrian survey, excavation, feature (including burial) exposure, laboratory techniques, research. Field positions include field director, assistant field director, crew chief and lead technician.

# APPENDIX 2

## Record Search

California Historical Resources Information System



Fresno
Kern
Kings
Madera
Tulare

**Southern San Joaquin Valley**
California State University, Bak
Mail Stop: 72 DOB
9001 Stockdale Highway
Bakersfield, California 93311-1022
(661) 654-2289
E-mail: ssjvic@csub.edu
Website: www.csub.edu/ssjvic

11/13/2023

Robert Gerry
Peak & Associates, Inc.
3941 Park Drive Ste 30-329
El Dorado Hills, CA 95762

Re: TM 6467
Records Search File No.: 23-469

The Southern San Joaquin Valley Information Center received your record search request for the project area referenced above, located on the Clovis, Friant USGS 7.5' quad. The following reflects the results of the records search for the project area and the 0.25 mile radius:

As indicated on the data request form, the locations of resources and reports are provided in the following format: ☒ custom GIS maps ☐ GIS data

| | |
|---|---|
| Resources within project area: | None |
| Resources within 0.25 mile radius: | P-10-005934 |
| Reports within project area: | FR-01219, 02203, 02289 |
| Reports within 0.25 mile radius: | FR-03067 |

| | | | |
|---|---|---|---|
| **Resource Database Printout (list):** | ☒ enclosed | ☐ not requested | ☐ nothing listed |
| **Resource Database Printout (details):** | ☐ enclosed | ☒ not requested | ☐ nothing listed |
| **Resource Digital Database Records:** | ☐ enclosed | ☒ not requested | ☐ nothing listed |
| **Report Database Printout (list):** | ☒ enclosed | ☐ not requested | ☐ nothing listed |
| **Report Database Printout (details):** | ☐ enclosed | ☒ not requested | ☐ nothing listed |
| **Report Digital Database Records:** | ☐ enclosed | ☒ not requested | ☐ nothing listed |
| **Resource Record Copies:** | ☒ enclosed | ☐ not requested | ☐ nothing listed |
| **Report Copies:** | ☒ enclosed | ☐ not requested | ☐ nothing listed |
| **OHP Built Environment Resources Directory:** | ☐ enclosed | ☐ not requested | ☒ nothing listed |
| **Archaeological Determinations of Eligibility:** | ☐ enclosed | ☐ not requested | ☒ nothing listed |
| **CA Inventory of Historic Resources (1976):** | ☐ enclosed | ☒ not requested | ☐ nothing listed |

**Caltrans Bridge Survey:** Not available at SSJVIC; please see https://dot.ca.gov/programs/environmental-analysis/cultural-studies/california-historical-bridges-tunnels

**Ethnographic Information:** Not available at SSJVIC

**Historical Literature:** Not available at SSJVIC

**Historical Maps:** Not available at SSJVIC; please see http://historicalmaps.arcgis.com/usgs/

**Local Inventories:** Not available at SSJVIC

**GLO and/or Rancho Plat Maps:** Not available at SSJVIC; please see http://www.glorecords.blm.gov/search/default.aspx#searchTabIndex=0&searchByTypeIndex=1 and/or http://www.oac.cdlib.org/view?docId=hb8489p15p;developer=local;style=oac4;doc.view=items

**Shipwreck Inventory:** Not available at SSJVIC; please see https://www.slc.ca.gov/shipwrecks/

**Soil Survey Maps:** Not available at SSJVIC; please see http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the record search number listed above when making inquiries. Invoices for Information Center services will be sent under separate cover from the California State University, Bakersfield Accounting Office.

Thank you for using the California Historical Resources Information System (CHRIS).

Sincerely,

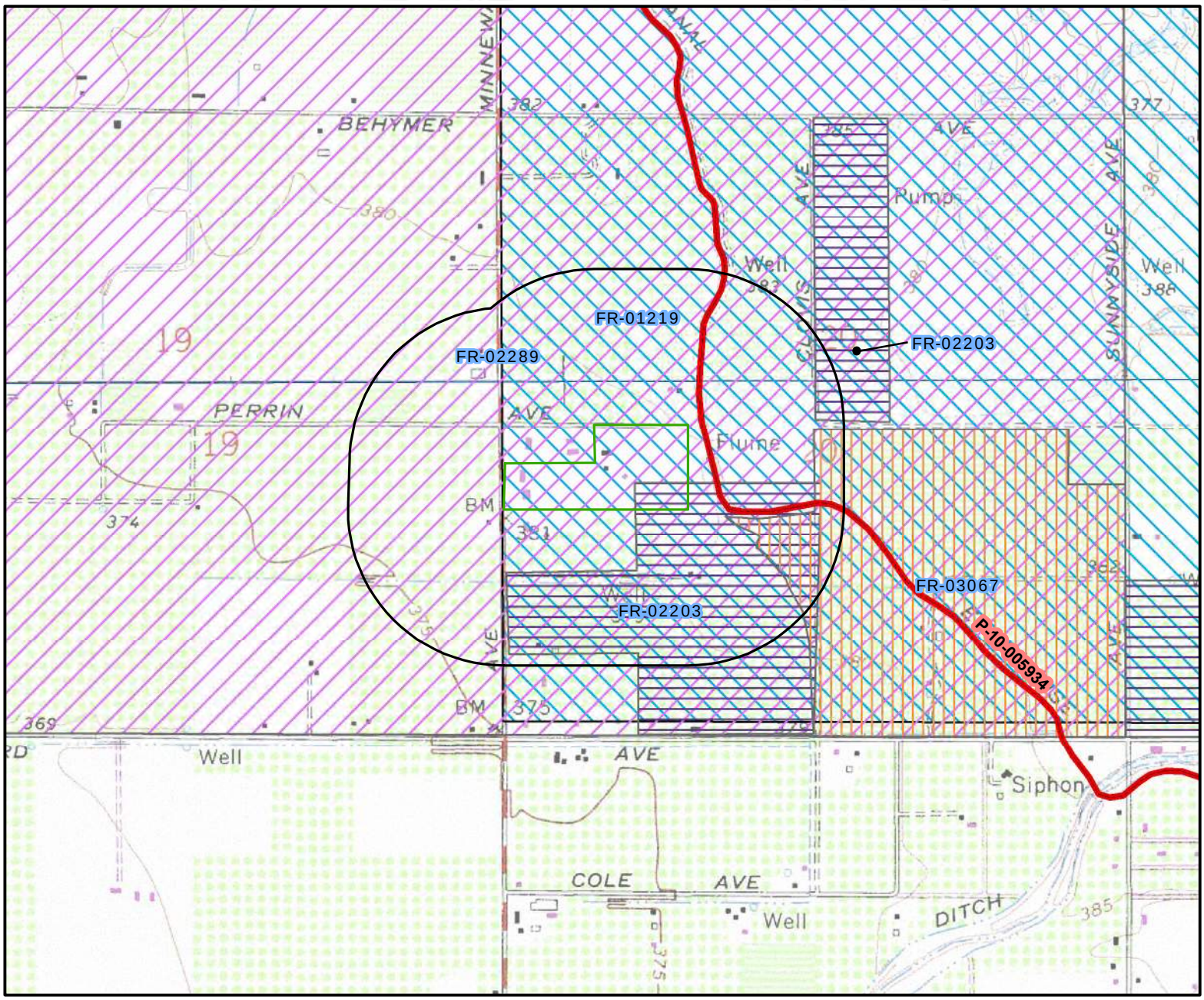
Jeremy E David
Assistant Coordinator

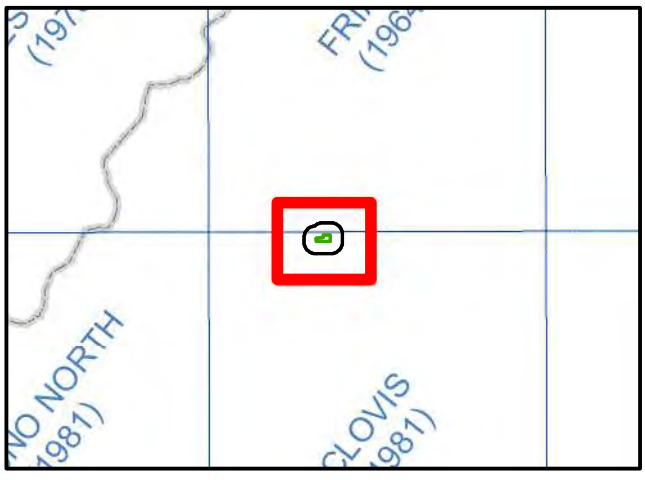
California Historical Resources Information System

Fresno
Kern
Kings
Madera
Tulare

**Southern San Joaquin Valley**
California State University, Bak
Mail Stop: 72 DOB
9001 Stockdale Highway
Bakersfield, California 93311-1022
(661) 654-2289
E-mail: ssjvic@csub.edu
Website: www.csub.edu/ssjvic

*AGENDA ITEM NO. 17.*



**May depict confidential cultural resource locations. Do not distribute.**

**Map pages depicting no data have been excluded.**

Project Area

Record Search radius

N W E S

0 0.075 0.15 0.3 Miles

0 0.1 0.2 0.4 Kilometers

SSJV Information Center Record Search 23-469
Requester: Robert Gerry, Peak & Associates, Inc.
Project Name: TM 6467
USGS 7.5' Quad(s): Clovis, Friant
County: Fresno

3134

# Resource List

**SSJVIC Record Search 23-469**

| Primary No. | Trinomial | Other IDs | Type | Age | Attribute codes | Recorded by | Reports |
|---|---|---|---|---|---|---|---|
| P-10-005934 | CA-FRE-003564H | Resource Name - Enterprise Canal;<br>OTIS Resource Number - 534499;<br>OHP Property Number - 163775 | Structure | Historic | HP20 | 2007 (R. Baloian, Applied EarthWorks, Inc.);<br>2013 (Randy Baloian, Applied EarthWorks, Inc.);<br>2017 (Ward Stanley and Randy Baloian, Applied EarthWorks, Inc.) | FR-02615, FR-02919, FR-03067 |

# Report List

**SSJVIC Record Search 23-469**

| Report No. | Other IDs | Year | Author(s) | Title | Affiliation | Resources |
|---|---|---|---|---|---|---|
| FR-01219 | | 1993 | Bissonnette, Linda Dick | Fresno Metropolitan Flood Control District Drainage Area "BY" Facilities | Cultural Resources Consulting | |
| FR-02203 | | 2006 | Varner, Dudley M. | A Cultural Resource Study of the Battlin Brooks Property, Fresno County, California | Varner Associates | |
| FR-02289 | | 2006 | Nettles, Wendy M. and Baloian, Randy | Cultural Resources Reconnaissance Survey of the City of Clovis Northwest Urban Center Specific Plan Area, Fresno County, California | Applied EarthWorks, Inc. | 10-006109 |
| FR-03067 | | 2018 | Stanley, Ward, Baloian, Randy, and Baloian, Mary | Cultural Resource Inventory and Evaluation for the Tract 6200 Development in the City of Clovis, Fresno County, California | Applied EarthWorks, Inc. | 10-005934 |

# APPENDIX 2

## DPR 523 Forms

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

# PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code
Other Listings
Review Code | Reviewer | Date

Page 1 of 5 *Resource Name or #: TM6467 Building 1

**P1. Other Identifier:**

***P2. Location:** ☐ **Not for Publication** ■ **Unrestricted** ***a. County:** Fresno

**and** (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** Clovis **Date:** 1964 **T** 12S ; **R** 21E ; NW¼ **of** SW¼ **of Sec** 20 ; M.D. **B.M.**

c. Address: 4165 E Perrin Road City: Clovis Zip: 93619

d. UTM: Zone: 11 ; (NAD27) 02 58 695 mE/ 40 83 038 mN (G.P.S.)

e. Other Locational Data: (e.g., parcel #, directions to r n to driveway. 220 feet south to residence.

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The residence is currently vacant and boarded-up. The complex includes a ranch-style home, consistent with 1950's-60's construction style and building components, including stucco siding, poured concrete foundation, attached open breezeway parking, and brick chimney. Door and window styles are unknown due to boarding. Electrical and plumbing hardware match equipment available between 1950-1970.

The house features a carport on the eastern end of the building, which appears to have been created by knocking out walls at this end leaving the roof. This leaves the brick chimney at the northeast corner of the living area, which is not likely to have been its original situation.

There are two out buldings. The first is a low barn or equipment shed with an open parking stall on one end. The windows are an aluminum-framed crank-out type and a steel-framed multi pane type. Exterior siding is rough paneling, and roof is wooden shake—possibly original. The foundation is not visible for inspection and thus unknown in type. The era of construction appears similar to the residence.

The other outbuilding is a small shed with the same siding as the first outbuilding, but with a corrugated steel roof, wooden framed windows and unknown foundation.

***P3b. Resource Attributes:** (List attributes and codes) HP2 - Single Family Property

***P4. Resources Present:** ■Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) Looking south at front elevation. 11/16/23

***P6. Date Constructed/Age and Sources:** ■Historic ☐Prehistoric ☐Both
1959 per Assessor

***P7. Owner and Address:**

***P8. Recorded by:** (Name, affiliation, and address)
Lawson/Gerry
Peak & Associates, Inc.
3941 Park Drive, Ste 20-329
El Dorado Hills, CA 95762

***P9. Date Recorded:** 11/16/23

***P10. Survey Type:** (Describe)
Complete pedestrian. For proposed development.

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") Cultural Resources Assessment of the TM6467 Project, Clovis, Fresno County, California. Peak & Associates, Inc. 2023.

***Attachments:** ☐NONE ■Location Map ■Sketch Map ■Continuation Sheet ■Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
Primary #
HRI#

# BUILDING, STRUCTURE, AND OBJECT RECORD



*NRHP Status Code 6Z

*Resource Name or # (Assigned by recorder) TM6467 Building 1

B1. Historic Name:
B2. Common Name: 4165 E Perrin Road
B3. Original Use: Residence B4. Present Use: Vacant
*B5. Architectural Style: Ranch Style, Side-Gabled subtype.
*B6. Construction History: (Construction date, alterations, and date of alterations)
Constructed 1959, according to the County Assessor's records.

*B7. Moved? ■No ☐Yes (C) ☐Unknown Date: Original Location:
*B8. Related Features: Barn and storage shed.
B9a. Architect: Unknown b. Builder: Unknown
*B10. Significance: Theme: Area:
Period of Significance: Property Type: Applicable Criteria:
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

To be eligible for the California Register of Historical Resources (CRHR) a property must meet at least one of four criteria. CRHR Criterion A requires that the property be related to important historical events. There is no known association of this small rural property with such events. Similarly, there are no associations with important people in history (CRHR Criterion B).

The building is in poor condition and has had a major alteration to form the carport. This is not in line with any recognized architectural style. It is not an unusually good example of the style, in fact, it is in rather poor repair and shows evidence of several repairs and patches in addition to the carport. It is not eligible under CRHR Criterion C.

The building is quite recent and this, coupled with the absence of a well or privy pit, indicates that it has no likelihood of returning important data through historical archeology (CRHR Criterion D).

We conclude the building is not eligible for the California Register.

B11. Additional Resource Attributes: (List attributes and codes) none

*B12. References: McAlester, Virginia Savage 2015 *A Field Guide to American Houses.* Alfred A. Knopf, New York.

B13. Remarks:

*B14. Evaluator: M. Peak

* Date of Evaluation: 2023

(Sketch Map with north arrow required)

(See attached sketch map)

(This space reserved for official comments.)

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
**CONTINUATION SHEET**

Primary #
HRI#
Trinomial

Page of *Resource Name or # (Assigned by recorder) TM6467 Building 1

*Recorded by: Lawson/Gerry *Date: 10/30/23 ■ Continuation ☐ Update



Building 1 looking east



Outbuilding 1 looking east

State of California ◆ Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
**SKETCH MAP**

Primary #
HRI#
Trinomial

**Page** 4 **of** 5 ***Resource Name or #** (Assigned by recorder) TM6467 Building 1

***Drawn by:** Google Earth and Gerry ***Date of map:** 10/30/2023




**DPR 523K (Rev. 1/1995)(Word 9/2013) NOTE: Include bar scale and north arrow.**

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
# LOCATION MAP

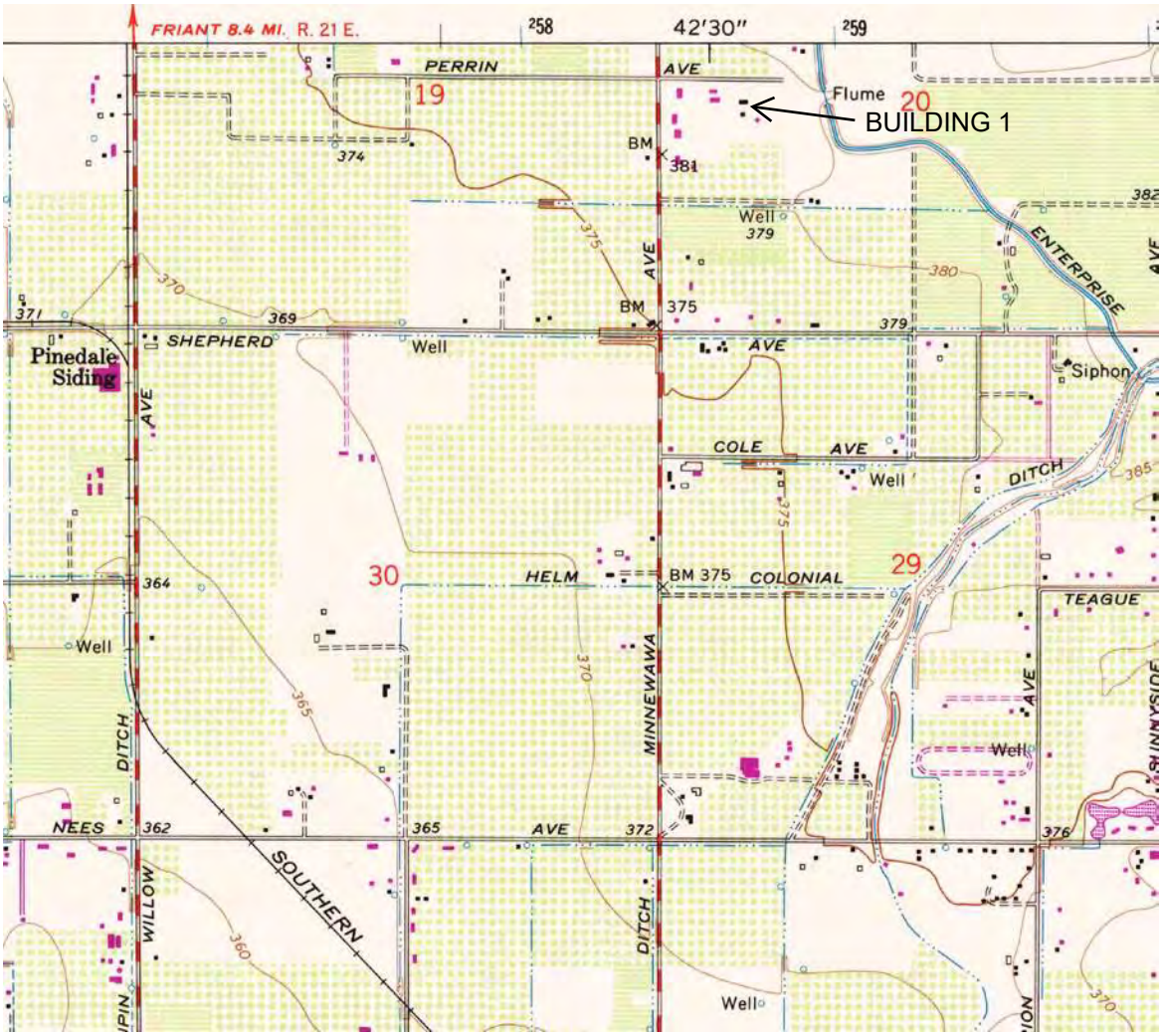
Primary #
HRI#
Trinomial

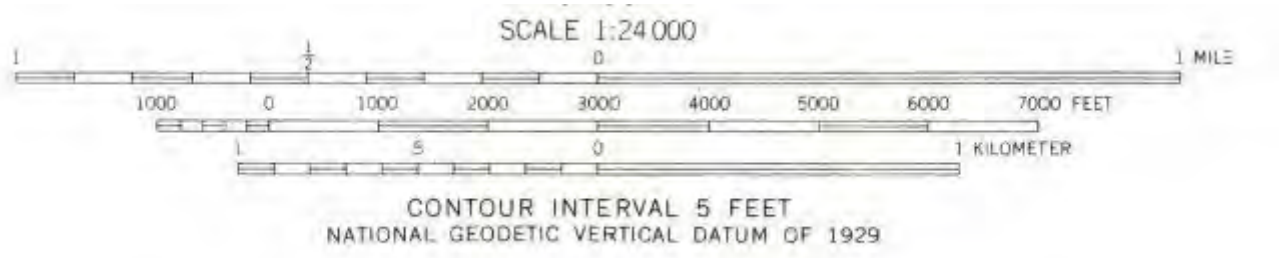


*Resource Name or #: TM6467 Building 1

*Map Name: Clovis 7.5'

*Scale: 1: 24,0000 *Date of Map: 1964






*Required information

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
# PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code
Other Listings
Review Code | Reviewer | Date

Page 1 of 5 *Resource Name or #: TM6467 Building 2

**P1. Other Identifier:**

***P2. Location:** ☐ **Not for Publication** ■ **Unrestricted** ***a. County:** Fresno

**and** (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** Clovis **Date:** 1964 **T** 12S ; **R** 21E ; NW¼ **of** SW¼ **of Sec** 20 ; M.D. **B.M.**

c. Address: 9452 N Minnewawa Avenue City: Clovis Zip: 93619

d. UTM: Zone: 11 ; (NAD27) 02 58 481 mE/ 40 83 984 mN (G.P.S.)

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) Elevation: 375'

About 480' S of Perrin Road to the driveway.

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

There are two residences at this address. One residence, currently occupied by the original owner, is a long narrow building oriented north-south and set back from the street. The other is north of the first and oriented east west. This is a modern home, dated 2008 per Assessor, and is currently vacant. Google Earth historic aerials confirm the construction date and indicate that it replaced a storage structure that had occupied the area.

The owner claims the occupied house was built in the mid 1960's, which is consistent with its appearance and other houses in the immediate area.. It is a Ranch Style with aluminum-framed windows, wood panel and stucco siding, new replacement composite roofing, brick chimney and a poured concrete foundation. It is a sidegabled building with a cross gable on the north side. This appears to be strictly decorative, because it does not extend out from the main mass of the building on the front and does not appear on the rear elevation at all. About 40% of Ranch houses have a cross gable (McAlester, 2015:598).

The rear has roof extensions for the full width of the building supported by square wood columns This is unusual in Ranch houses.

Behind both houses is a detached two-car garage with plywood siding, roller steel doors, composite roofing, and a a poured concrete foundation. Its age appears consistent with 1980's construction.

***P3b. Resource Attributes:** (List attributes and codes) HP2 - Single Family Property

***P4. Resources Present:** ■Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) Looking east at front elevation. 11/16/23

***P6. Date Constructed/Age and Sources:** ■Historic ☐Prehistoric ☐Both
1965 per owner

**P7. Owner and Address:**

9454 Minnewawa Ave
Clovis

***P8. Recorded by:** (Name, affiliation, and address)
Lawson/Gerry
Peak & Associates, Inc.
3941 Park Drive, Ste 20-329
El Dorado Hills, CA 95762

***P9. Date Recorded:** 11/16/23

***P10. Survey Type:** (Describe)
Complete pedestrian. For proposed development.

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") Cultural Resources Assessment of the TM6467 Project, Clovis, Fresno County, California. Peak & Associates, Inc. 2023.

***Attachments:** ☐NONE ■Location Map ■Sketch Map ■Continuation Sheet ■Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI#

# BUILDING, STRUCTURE, AND OBJECT RECORD



*NRHP Status Code 6Z

*Resource Name or # (Assigned by recorder) 6467 Building 2

B1. Historic Name:
B2. Common Name: 9452 N Minnewawa Avenue
B3. Original Use: Residence B4. Present Use: Vacant

*B5. **Architectural Style:** It is a cross gabled Ranch style which describes about 40% of the Ranch houses built in the US (McAlester 2015:598). It is thoroughly stereotypical of that style.

*B6. **Construction History:** (Construction date, alterations, and date of alterations)
Constructed 1965, according to the County Assessor's records.

*B7. **Moved?** ■No ☐Yes (C) ☐Unknown **Date:** **Original Location:**

*B8. **Related Features:** There is a garage located behind (east) of the residence using similar exterior materials as the residence.

B9a. Architect: Unknown b. Builder: Unknown

*B10. **Significance: Theme:** **Area:**
**Period of Significance:** **Property Type:** **Applicable Criteria:**
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

To be eligible for the California Register of Historical Resources (CRHR) a property must meet at least one of four criteria. CRHR Criterion A requires that the property be related to important historical events. There is no known association of this small rural property with such events. Similarly, there are no associations with important people in history (CRHR Criterion B).

The building is in a very common architectural style, and it is not an unusually fine exemplar of that style. . There is nothing in particular wrong with it, but there is nothing remarkable about it either. It is not eligible under CRHR Criterion C.

The building is quite recent and this, coupled with the absence of a well or privy pit, indicates that it has no likelihood of returning important data through historical archeology (CRHR Criterion D).

We conclude the building is not eligible for the California Register.

B11. Additional Resource Attributes: (List attributes and codes) none

*B12. **References:** McAlester, Virginia Savage 2015 *A Field Guide to American Houses.* Alfred A. Knopf, New York.

B13. Remarks:

*B14. **Evaluator:** M. Peak

* **Date of Evaluation:** 2023

(Sketch Map with north arrow required)

(See attached sketch map)

(This space reserved for official comments.)

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
**CONTINUATION SHEET**

Primary #
HRI#
Trinomial



***Resource Name or #** (Assigned by recorder) TM6467 Building 2

***Recorded by:** Lawson/Gerry ***Date:** 10/30/23 ■ Continuation ☐ Update



**Garage behind 1965 house**



**Newer house on property looking NE**

State of California ◆ Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
Primary #
HRI#
Trinomial

# SKETCH MAP

**Page** 4 **of** 5 ***Resource Name or #** (Assigned by recorder) TM6467 Building 2

***Drawn by:** Google Earth and Gerry ***Date of map:** 10/30/2023



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
# LOCATION MAP

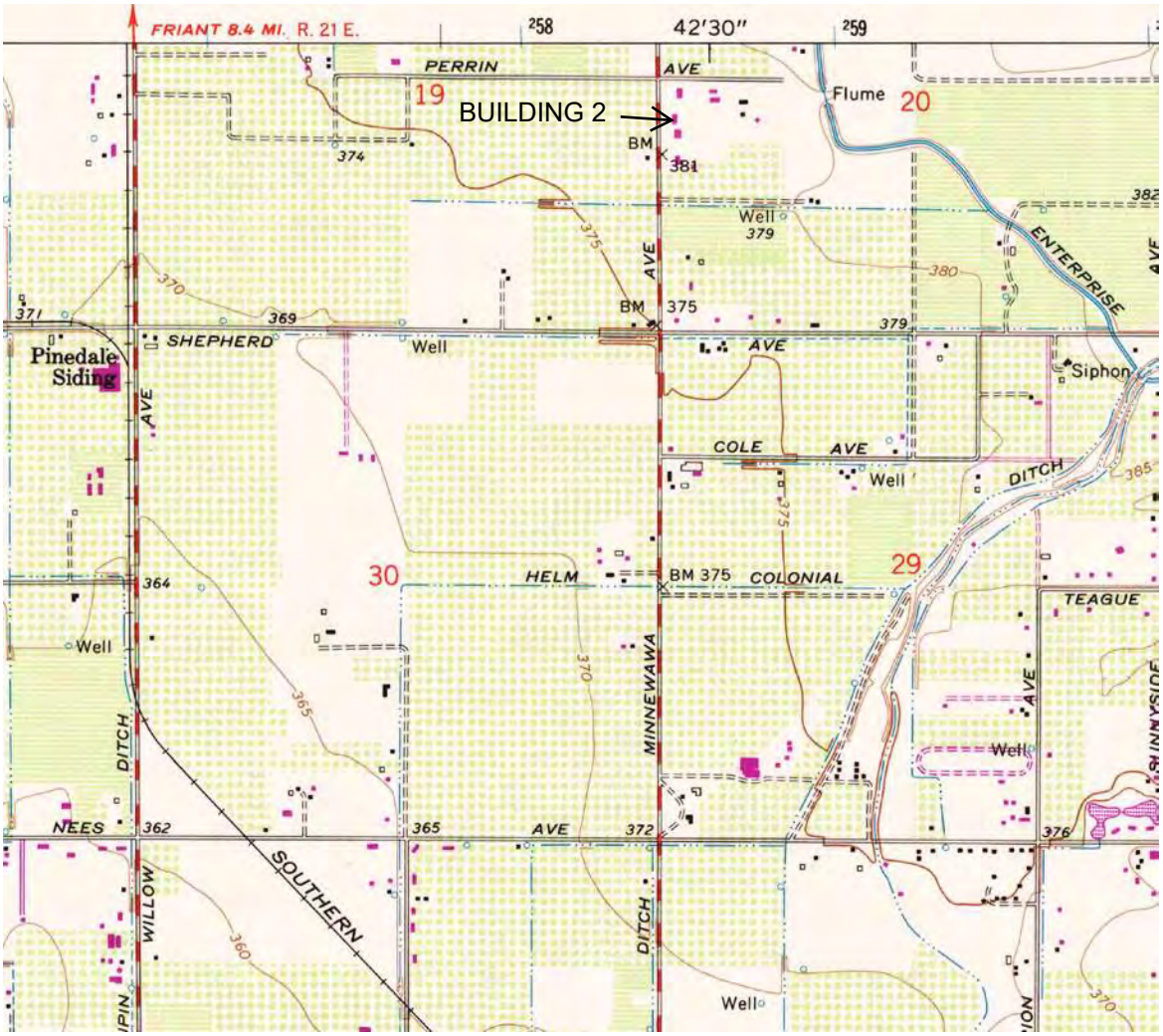
Primary #
HRI#
Trinomial

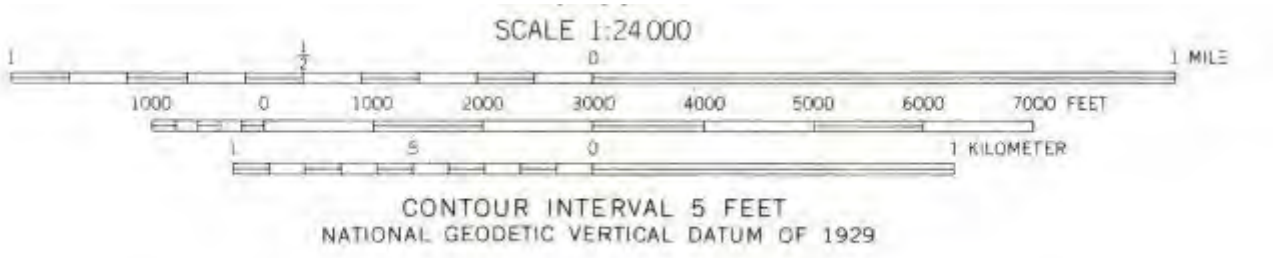


***Resource Name or #:** TM6467 Building 2

***Map Name:** Clovis 7.5'

***Scale:** 1: 24,0000 ***Date of Map:** 1964




**DPR 523J (1/95)**

***Required information**

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
# PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code
Other Listings
Review Code | Reviewer | Date

 *Resource Name or #: TM6467 Building 3

**P1. Other Identifier:**

***P2. Location:** ☐ **Not for Publication** ■ **Unrestricted** ***a. County:** Fresno

**and** (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** Clovis **Date:** 1964 **T** 12S ; **R** 21E ; NW¼ **of** SW¼ **of Sec** 20 ; M.D. **B.M.**

c. Address: 9434 N Minnewawa Avenue City: Clovis Zip: 93619

d. UTM: Zone: 11 ; (NAD27) 02 58 492 mE/ 40 83 933 mN (G.P.S.)

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) Elevation: 375'

About 640' S of Perrin Road to the northern access of a U-shaped driveway.

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

This building, currently occupied by a renter, is reported to have been constructed in the late 1960's by the owner and in 1965 by the County Assessor. There is a shed in the same style as the house that the owner says was built at the same time.

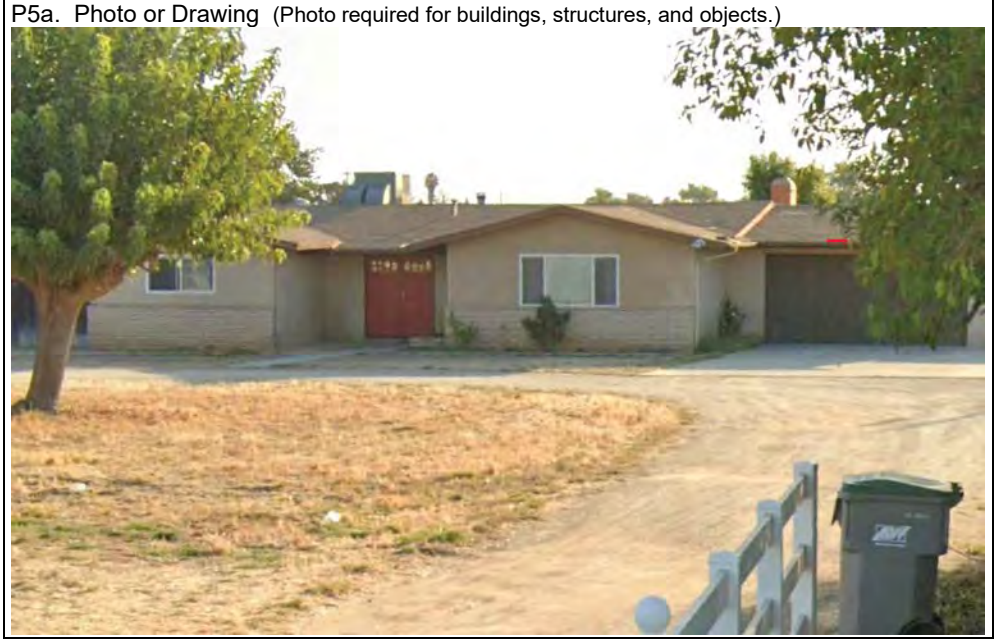
The house has combined stucco/brick exterior, attached garage, concrete foundation, replacement composite roofing, wide eves, replacement vinyl-framed windows and electrical and plumbing equipment consistent with a 1960's construction date.

The house does not fit comfortably into any defined style in residential architecture. It has most in common with Minimal Traditional, in that it has no architectural decorative features at all. However, it is newer than the dates when most Minimal Traditionals were built and it has other features that do not conform. It is a side gabled building with an attached garage on the south under its own gable and two crossgabled sections facing the street (west) flanking the entry way. On the rear the northern side gable is repeated, but most of the rear is occupied by a shed roofed segment facing an in-ground pool. This may be a feature added after the initial construction.

***P3b. Resource Attributes:** (List attributes and codes) HP2 - Single Family Property

***P4. Resources Present:** ■Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #) Looking east at front elevation. 11/16/23

***P6. Date Constructed/Age and Sources:** ■Historic ☐Prehistoric ☐Both
1965 per Assessor

***P7. Owner and Address:**

9454 Minnewawa Ave
Clovis

***P8. Recorded by:** (Name, affiliation, and address)
Lawson/Gerry
Peak & Associates, Inc.
3941 Park Drive, Ste 20-329
El Dorado Hills, CA 95762

***P9. Date Recorded:** 11/16/23

***P10. Survey Type:** (Describe)
Complete pedestrian. For proposed development.

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") Cultural Resources Assessment of the TM6467 Project, Clovis, Fresno County, California. Peak & Associates, Inc. 2023.

***Attachments:** ☐NONE ■Location Map ■Sketch Map ☐Continuation Sheet ■Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
Primary #
HRI#

# BUILDING, STRUCTURE, AND OBJECT RECORD



*NRHP Status Code 6Z

*Resource Name or # (Assigned by recorder) 6467 Building 3

B1. Historic Name:
B2. Common Name: 9434 N Minnewawa Avenue
B3. Original Use: Residence B4. Present Use: Vacant

*B5. **Architectural Style:** The house does not fit comfortably into any defined style in residential architecture. It has most in common with Minimal Traditional, in that it has no architectural decorative features at all. However, it is newer than the dates when most Minimal Traditionals were built, and it has other features that do not conform.

*B6. **Construction History:** (Construction date, alterations, and date of alterations)
Constructed 1965, according to the County Assessor's records.

*B7. **Moved?** ■No ☐Yes (C) ☐Unknown **Date:** **Original Location:**

*B8. **Related Features:** There is a storage structure located near the northeast corner of the residence using the aame exterior materials as the residence.

B9a. Architect: Unknown b. Builder: Unknown

*B10. **Significance: Theme:** **Area:**
**Period of Significance:** **Property Type:** **Applicable Criteria:**
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

To be eligible for the California Register of Historical Resources (CRHR) a property must meet at least one of four criteria. CRHR Criterion A requires that the property be related to important historical events. There is no known association of this small rural property with such events. Similarly, there are no associations with important people in history (CRHR Criterion B).

The building is in no particular architectural style. The double front-facing gables do not conform to a recognized style of the era. It is not an unusually good example of any style. It is not eligible under CRHR Criterion C.

The building is quite recent and this, coupled with the absence of a well or privy pit, indicates that it has no likelihood of returning important data through historical archeology (CRHR Criterion D).

We conclude the building is not eligible for the California Register.

B11. Additional Resource Attributes: (List attributes and codes) none

*B12. **References:** McAlester, Virginia Savage 2015 *A Field Guide to American Houses.* Alfred A. Knopf, New York.

B13. Remarks:

(Sketch Map with north arrow required)

*B14. **Evaluator:** M. Peak

* **Date of Evaluation:** 2023

(See attached sketch map)

(This space reserved for official comments.)

**State of California ◆ Natural Resources Agency** Primary #
**DEPARTMENT OF PARKS AND RECREATION** HRI#
# SKETCH MAP
Trinomial

**Page** 3 **of** 4 ***Resource Name or #** (Assigned by recorder) TM6467 Building 3

***Drawn by:** Google Earth and Gerry ***Date of map:** 10/30/2023



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
# LOCATION MAP

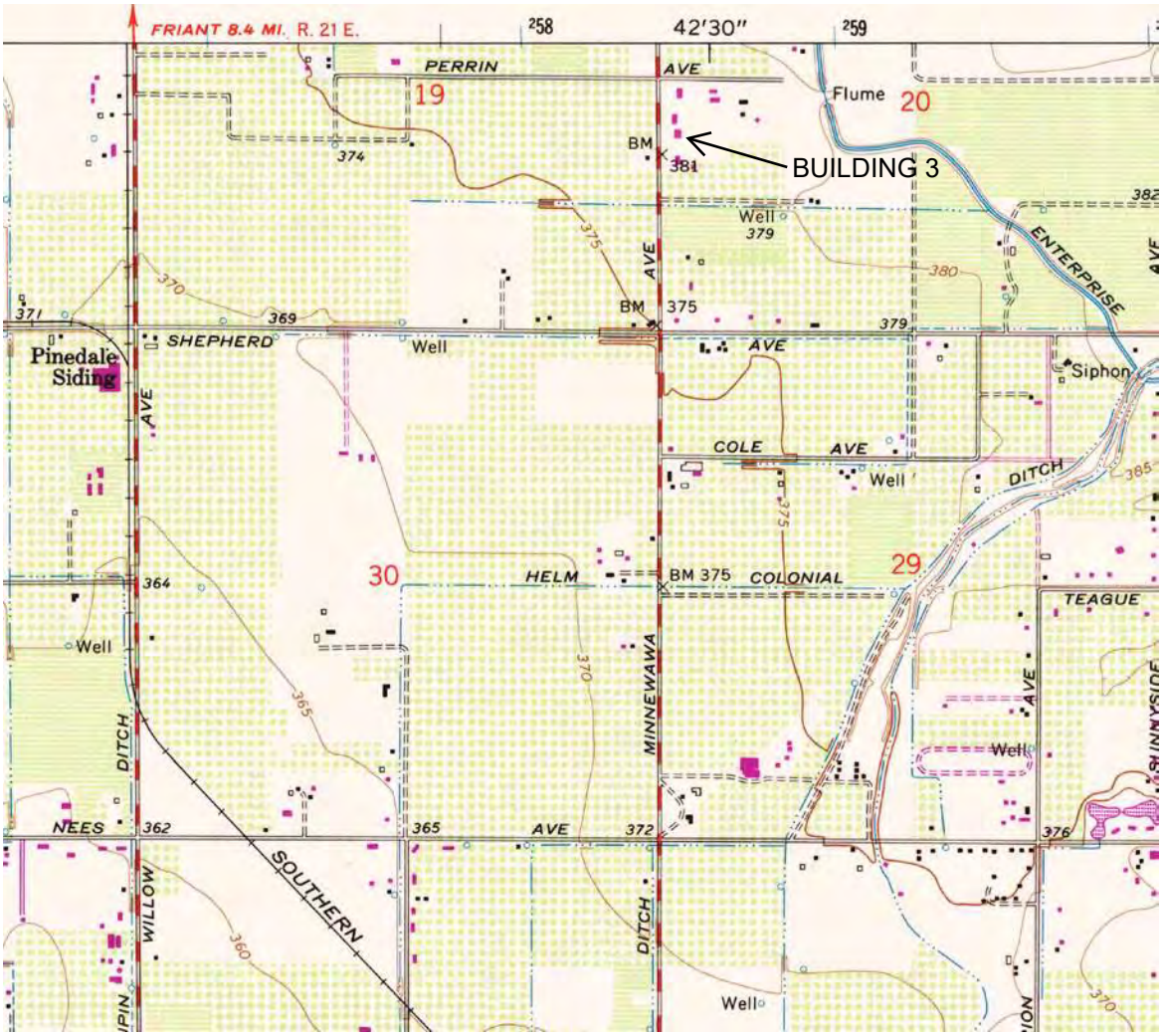
Primary #
HRI#
Trinomial

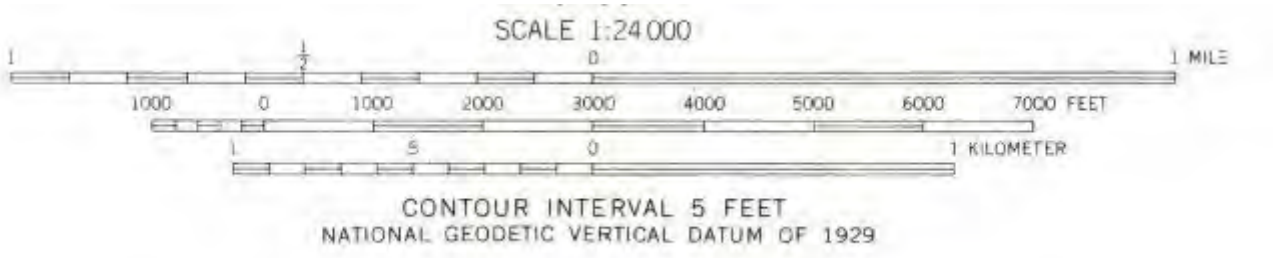


***Resource Name or #:** TM6467 Building 3

***Map Name:** Clovis 7.5'

***Scale:** 1: 24,0000 ***Date of Map:** 1964



# Traffic Impact Analysis Report

## Clovis and Perrin Subdivision

**Located on the Southwest Corner of Clovis Avenue at Minnewawa Avenue**

**In the City of Clovis, California**

***Prepared for:***

Bonadelle Neighborhoods
7030 North Fruit Avenue, Suite 101
Fresno, CA 93711

April 17, 2024

Project No. 006-049

***Traffic Engineering, Transportation Planning, & Parking Solutions***
516 W. Shaw Ave., Ste. 103
Fresno, CA 93704
Phone: (559) 570-8991
www.JLBtraffic.com

*Traffic Engineering, Transportation Planning, & Parking Solutions*

# Traffic Impact Analysis Report

## For the Clovis and Perrin Subdivision located on the Southwest Corner of Clovis Avenue at Perrin Avenue

In the City of Clovis, CA

April 17, 2024

This Traffic Impact Analysis Report has been prepared under the direction of a licensed Traffic Engineer. The licensed Traffic Engineer attests to the technical information contained therein and has judged the qualifications of any technical specialists providing engineering data from which recommendations, conclusions and decisions are based.

Prepared by:

Jose Luis Benavides, PE, TE

President

REGISTERED PROFESSIONAL ENGINEER
JOSE LUIS BENAVIDES
No.T 2328
Exp:06/30/23
TRAFFIC
STATE OF CALIFORNIA

*Traffic Engineering, Transportation Planning, & Parking Solutions*
516 W. Shaw Ave., Ste. 103
Fresno, CA 93704
Phone: (559) 570-8991
www.JLBtraffic.com

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# Introduction and Summary

## Introduction

This Report describes a Traffic Impact Analysis (TIA) prepared by JLB Traffic Engineering, Inc. (JLB) for the Clovis and Perrin Subdivision (Project) located on the southwest corner of Clovis Avenue at Perrin Avenue in the City of Clovis. The Project proposes to develop 162 single family residential units. Based on information provided to JLB, the Project is consistent with the City of Clovis *General Plan*. Figure 1 shows the location of the proposed Project site relative to the surrounding roadway network.

The purpose of the TIA is to evaluate the potential on-site and off-site traffic impacts, identify short-term and long-term roadway needs, determine potential roadway improvement measures and identify any critical traffic issues that should be addressed in the ongoing planning process. The TIA primarily focused on evaluating traffic conditions at study intersections that may potentially be impacted by the proposed Project. The Scope of Work was prepared via consultation with City of Clovis, City of Fresno, County of Fresno and Caltrans staff.

## Summary

The potential traffic impacts of the proposed Project were evaluated in accordance with the standards set forth by the Level of Service (LOS) policies of the City of Clovis, County of Fresno and Caltrans.

### *Existing Traffic Conditions*

- At present, the study intersection of Minnewawa Avenue at Behymer Avenue exceeds its LOS threshold during both peak periods. Additional details as to the recommended improvements for this intersection are presented later in this Report.
- At present, all study segments operate at an acceptable LOS during both peak periods.

### *Existing plus Project Traffic Conditions*

- JLB analyzed the location of the proposed access points relative to the existing local roads and driveways in the Project's vicinity. A review of the Project access points indicates that they are located at points that minimize traffic operational impacts to the existing roadway network.
- At buildout, the proposed Project is estimated to generate a maximum of 1,528 daily trips, 113 AM peak hour trips and 152 PM peak hour trips.
- Under this scenario, the study intersection of Minnewawa Avenue at Behymer Avenue is projected to exceed its LOS threshold during both peak periods. Additional details as to the recommended improvements for this intersection are presented later in this Report.
- Under this scenario, all study segments are projected to operate at an acceptable LOS during both peak periods.

## *Near Term plus Project Traffic Conditions*

- The total trip generation for the Near Term Projects is 114,510 weekday daily trips, 8,607 weekday AM peak hour trips and 11,147 weekday PM peak hour trips.
- Under this scenario, the study intersections of Minnewawa Avenue at Behymer Avenue, Peach Avenue at Shepherd Avenue and Minnewawa Avenue at Shepherd Avenue are projected to exceed their LOS thresholds during both peak periods. Additional details as to the recommended improvements for these intersections are presented later in this Report.
- Under this scenario, the study segments of Shepherd Avenue between Willow Avenue and Peach Avenue and Shepherd Avenue between Peach Avenue and Minnewawa Avenue are projected to exceed their LOS thresholds during one or both peak periods. Additional details as to the recommended improvements for these intersections are presented later in this Report.

## *Cumulative Year 2046 plus Project Traffic Conditions*

- Under this scenario, the study intersections of Minnewawa Avenue at Behymer Avenue, Minnewawa Avenue at Perrin Avenue, Clovis Avenue at Baron Avenue, Peach Avenue at Shepherd Avenue and Minnewawa Avenue at Shepherd Avenue are projected to exceed their LOS threshold during one or both peak periods. Additional details as to the recommended improvements for these intersections are presented later in this Report.
- Under this scenario, the study segments of Shepherd Avenue between Willow Avenue and Peach Avenue and Shepherd Avenue between Peach Avenue and Minnewawa Avenue are projected to exceed their LOS thresholds during both peak periods. Additional details as to the recommended improvements for these intersections are presented later in this Report.

## *Queuing Analysis*

- It is recommended that the City consider left-turn and right-turn lane storage lengths as indicated in the Queuing Analysis.

# Scope of Work

The TIA focused on evaluating traffic conditions at study intersections that may potentially be impacted by the proposed Project. On October 11, 2023, a Draft Scope of Work for the preparation of a Traffic Impact Analysis for this Project was provided to the City of Clovis, City of Fresno, County of Fresno and Caltrans for their review and comment.

On October 11, 2023, Caltrans replied that they had no comments on the proposed scope. On October 11, 2023, the City of Fresno replied that they had no comments on the proposed scope. On October 12, 2023, the County requested that the following study facilities be included in the analysis. The requested facilities include the intersections of Minnewawa Avenue at Behymer Avenue, Willow Avenue at Behymer Avenue and Willow Avenue at Shepherd Avenue. The requested facilities include the segments of Minnewawa Avenue between Shepherd Avenue and Perrin Avenue, Minnewawa Avenue between Perrin Avenue and Behymer Avenue, Behymer Avenue between Willow Avenue and Minnewawa Avenue, Shepherd Avenue between Willow Avenue and Peach Avenue, Shepherd Avenue between Peach Avenue and Minnewawa Avenue and Shepherd Avenue between Minnewawa Avenue and DeWitt Avenue. On October 16, 2023, the City of Clovis requested the intersection of Minnewawa Avenue at International Avenue, Willow Avenue and International Avenue and Peach Avenue at Shepherd Avenue be included in the analysis as well as the near term projects of Tract 6343, Tract 6205 and Heritage Grove – The Avenue. Based on further discussions with the City of Clovis and County of Fresno, the intersections of Willow Avenue at International Avenue, Minnewawa Avenue at International Avenue, Willow Avenue at Behymer Avenue and Willow Avenue at Shepherd Avenue as well as the segments of Behymer Avenue between Willow Avenue and Minnewawa Avenue and Shepherd Avenue between Minnewawa Avenue and DeWitt Avenue were no longer requested. The removal of these requested facilities centered around a project trip distribution which displayed that the minimum trip thresholds were not met by the requested agency or that they were not within the jurisdiction of the requested agency.

Based on the comments received, in addition to the facilities included in the Draft Scope of Work, this TIA also analyzes the intersections of Minnewawa Avenue at Behymer Avenue and Peach Avenue at Shepherd Avenue as well as the segments Minnewawa Avenue between Shepherd Avenue and Perrin Avenue, Minnewawa Avenue between Perrin Avenue and Shepherd Avenue, Shepherd Avenue between Willow Avenue and Peach Avenue and Shepherd Avenue between Peach Avenue and Minnewawa Avenue. Furthermore, this TIA includes the near term project of Tract 6343, Tract 6205 and Heritage Grove – The Avenue. The Scope of Work and the comments received from the lead agency and responsible agencies are included in Appendix A.

## Study Facilities

Roadway closures along Shepherd Avenue due to construction are projected to carry into late 2024 and possibly into 2025. For this reason, the City of Clovis agreed to allow a combination of recent and historical traffic counts to be utilized in this TIA. The historical count was conducted in February 2020, whereas the recent counts were conducted in September 2023, November 2023, February 2024 and March 2024. The City of Clovis accepted a growth rate of 2.00% in the AM peak and 3.44% in the PM peak for the traffic count of Peach Avenue at Shepherd Avenue which was collected in February 2020. The intersection turning movement counts included pedestrian and bicycle volumes. The traffic counts for the existing study intersections are contained in Appendix B. The existing intersection turning movement volumes, intersection geometrics and traffic controls are illustrated in Figure 2.

### *Study Intersections*

1. Minnewawa Avenue / Behymer Avenue
2. Minnewawa Avenue / Perrin Avenue
3. Clovis Avenue / Perrin Avenue (Future)
4. Clovis Avenue / Baron Avenue
5. Peach Avenue / Shepherd Avenue
6. Minnewawa Avenue / Shepherd Avenue
7. Clovis Avenue / Shepherd Avenue

### *Study Segments*

1. Minnewawa Avenue between Behymer Avenue and Perrin Avenue
2. Minnewawa Avenue between Perrin Avenue and Shepherd Avenue
3. Shepherd Avenue between Willow Avenue and Peach Avenue
4. Shepherd Avenue between Peach Avenue and Minnewawa Avenue

# Study Scenarios

## *Existing Traffic Conditions*

This scenario evaluates the Existing Traffic Conditions based on Year 2024 traffic volumes. To determine the Year 2024 traffic volumes, the traffic counts conducted in February 2020 were expanded by a growth rate of a growth rate of 2.00% for the AM peak and 3.44% for the PM peak as agreed upon by the City of Clovis. No adjustments were made to the counts collected in September 2023 or November 2023 as those were less than six months old at the time of the collection of the most recent 2024 counts. The most recent counts were collected in February and March 2024.

## *Existing plus Project Traffic Conditions*

This scenario evaluates total traffic volumes and roadway conditions based on the Existing plus Project Traffic Conditions. The Existing plus Project traffic volumes were obtained by adding the Project Only Trips to the Existing Traffic Conditions scenario. The Project Only Trips to the study facilities were developed based on existing travel patterns, the Fresno COG ABM Project Select Zone, the surrounding roadway network, engineering judgment, knowledge of the study area, existing residential and commercial densities, and the *City of Clovis General Plan* Circulation Element in the vicinity of the Project site. The Fresno COG Project Select Zone was prepared by Kittelson & Associates and plots are contained in Appendix C.

## *Near Term plus Project Traffic Conditions*

This scenario evaluates total traffic volumes and roadway conditions based on the Near Term plus Project Traffic Conditions. The Near Term plus Project traffic volumes were obtained by adding the Near Term related trips to the Existing plus Project Traffic Conditions scenario.

## *Cumulative Year 2046 plus Project Traffic Conditions*

This scenario evaluates total traffic volumes and roadways conditions based on the Cumulative Year 2046 plus Project Traffic Conditions. The Cumulative Year 2046 plus Project traffic volumes were obtained by using the Fresno COG activity-based model (ABM) (Base Year 2019 and Cumulative Year 2046) and existing traffic counts. Under this scenario, the increment method was utilized to determine the Cumulative Year 2046 plus Project traffic volumes. The Fresno COG ABM results were prepared by Kittelson & Associates and plots are contained in Appendix C.

# LOS Methodology

LOS is a qualitative index of the performance of an element of the transportation system. LOS is a rating scale running from "A" to "F", with "A" indicating no congestion of any kind and "F" indicating unacceptable congestion and delays. LOS in this study describes the operating conditions for signalized and unsignalized intersections.

The *Highway Capacity Manual* (HCM) 7th Edition is the standard reference published by the Transportation Research Board and contains the specific criteria and methods to be used in assessing LOS. U-turn movements were analyzed using HCM 2000 methodologies and would yield more accurate results for the reason that HCM 6 Edition methodologies do not allow the analysis of U-turns. Lane configurations not reflective of existing conditions are a result of software limitations and thus represent a worst-case scenario. Synchro software was used to define LOS in this study. Details regarding these calculations are included in Appendix D.

While LOS is no longer the criteria of significance for traffic impacts in the state of California, the City of Clovis continues to apply congestion-related conditions or requirements for land development projects through planning approval processes outside of CEQA Guidelines in order to continue the implementation of *City of Clovis General Plan* policies.

# LOS Thresholds

The *City of Clovis General Plan* has established LOS D as the acceptable level of traffic congestion on most major streets. Therefore, LOS D is used to evaluate the potential significance of LOS impacts to City of Clovis roadway facilities pursuant to the *City of Clovis General Plan*.

The *Fresno County General Plan* has established LOS C as the acceptable level of traffic congestion on county roads and streets that fall entirely outside the Sphere of Influence (SOI) of a City (Fresno County 2000). For those areas that fall within the SOI of a City, the LOS threshold of the City is used in this report. In this case, all study facilities fall within the City of Clovis SOI, therefore, the City of Clovis LOS thresholds are utilized.

Caltrans no longer considers delay as a significant impact to the environment, for land use projects and plans. According to the Caltrans document VMT Focused Transportation Impact Study Guidelines dated May 2020, Caltrans review of land use projects and plans is focused on a VMT metric consistent with CEQA. In this TIA, however, all study intersections fall within the City of Clovis SOI. Therefore, the City of Clovis LOS thresholds are utilized.

# Operational Analysis Assumptions and Defaults

The following operational analysis values, assumptions and defaults were used in this study to ensure a consistent analysis of LOS among the various scenarios.

- Yellow time consistent with the *California Manual on Uniform Traffic Control Devices* (CA MUTCD) based on approach speeds (Caltrans, 2024).
- Yellow time of 3.2 seconds for left-turn phases.
- All-red clearance intervals of 1.0 second for all phases.
- Walk intervals of 7.0 seconds.
- Flashing Don't Walk based on 3.5 feet/second walking speed with yellow plus all-red clearance subtracted and 2.0 seconds added.
- An average of 10 pedestrian calls per hour at signalized intersections.
- At existing intersections, the heavy vehicle factor observed for each intersection or a minimum of 3 percent were utilized under all scenarios.
- The number of observed pedestrians at existing intersections was utilized under all study scenarios.
- At existing intersections, the observed approach Peak Hour Factor (PHF) is utilized in the Existing, Existing plus Project and Near Term plus Project scenarios.
- For both Cumulative Year 2046 scenarios, the following PHF was utilized to reflect traffic operations and an increase in future traffic volumes. As roadways start to reach their saturated flow rates, PHF's tend to increase to 0.90 or higher in urban settings. A PHF of 0.92, or the existing PHF if higher, is utilized for all study intersections.

# Existing Traffic Conditions

## Roadway Network

The Project site and surrounding study area are illustrated in Figure 1. Important roadways serving the Project are discussed below.

***Peach Avenue*** is an existing north-south two-lane collector divided by a two-way left-turn lane in the vicinity of the proposed Project site. In this area, Peach Avenue exists between Shepherd Avenue and Herndon Avenue. The *City of Clovis General Plan* Circulation Element designates Peach Avenue as a collector through the City of Clovis SOI.

***Minnewawa Avenue*** is an existing north-south two-lane undivided thematic street (collector) adjacent to the proposed Project site. In this area, Minnewawa Avenue exists between Copper Avenue and Villa Avenue. The *City of Clovis General Plan* Circulation Element designates Minnewawa Avenue as a collector between Copper Avenue and Behymer Avenue, an arterial between Behymer Avenue and Alluvial Avenue and a collector between Bullard Avenue and Ashlan Avenue.

***Clovis Avenue*** is an existing north-south four-lane divided arterial in the vicinity of the proposed Project site. In this area, Clovis Avenue exists between Baron Avenue and the City of Clovis southern boundary. The *City of Clovis General Plan* Circulation Element designates Clovis Avenue as an arterial between Copper Avenue and the City of Clovis southern boundary.

***Behymer Avenue*** is an existing east-west two-lane undivided arterial in the vicinity of the proposed Project site. In this area, Behymer Avenue exists between Willow Avenue and Fowler Avenue. The *City of Clovis General Plan* Circulation Element designates Behymer Avenue as an arterial between Willow Avenue and Clovis Avenue and a collector between Clovis Avenue and Fowler Avenue.

***Perrin Avenue*** is an existing east-west two-lane undivided collector adjacent to the proposed Project site. In this area, Perrin Avenue exists between Willow Avenue and Minnewawa Avenue. The *City of Clovis General Plan* Circulation Element designates Perrin Avenue as a collector between Willow Avenue and Minnewawa Avenue.

***Shepherd Avenue*** is an existing east-west four-lane divided arterial in the vicinity of the proposed Project site. In this area, Shepherd Avenue exists between Willow Avenue and State Route 168. The *City of Clovis General Plan* Circulation Element designates Shepherd Avenue as an arterial between Willow Avenue and Clovis Avenue and an expressway between Clovis Avenue and State Route 168.

## Traffic Signal Warrants

The CA MUTCD indicates that an engineering study of traffic conditions, pedestrian characteristics and physical features of an intersection shall be conducted to determine whether the installation of traffic signal controls are justified. The CA MUTCD provides a total of nine (9) warrants to evaluate the need for traffic signal controls. These warrants include 1) Eight-Hour Vehicular Volume, 2) Four-Hour Vehicular Volume, 3) Peak Hour, 4) Pedestrian Volume, 5) School Crossing, 6) Coordinated Signal System, 7) Crash Experience, 8) Roadway Network and 9) Intersection Near a Grade Crossing. Signalization of an intersection may be appropriate if one or more of the signal warrants are satisfied. However, the CA MUTCD also states that "The satisfaction of a signal warrant or warrants shall not in itself require the installation of a traffic control signal" (Caltrans, 2024).

If traffic signal warrants are satisfied when a LOS threshold impact is identified at an unsignalized intersection, then installation of a traffic signal control may serve as an improvement measure. For instances where traffic signal warrants are satisfied, traffic signal control is not considered to be the default improvement measure. Since the installation of a traffic signal control typically results in additional delay to a larger percentage of road users, an attempt is made to improve the intersection approach lane geometrics in order to improve its LOS while maintaining the existing intersection controls. If the additional lanes do not result in acceptable LOS at the intersection, then in those cases implementation of a traffic signal control or a roundabout would be considered.

Warrant 3 was prepared for the unsignalized intersections under the Existing Traffic Conditions scenario. These warrants are contained in Appendix I. At present, Warrant 3 is met for the intersections of Minnewawa Avenue at Behymer Avenue and Peach Avenue at Shepherd Avenue during both peak periods. Based on the operational analysis and engineering judgment, signalization of these intersections is not recommended. The CA MUTCD states "satisfaction of a signal warrant or warrants shall not in itself require the installation of a traffic signal."

## Results of Existing Level of Service Analysis

Figure 2 illustrates the Existing Traffic Conditions turning movement volumes, intersection geometrics and traffic controls. LOS worksheets for the Existing Traffic Conditions scenario are provided in Appendix E. Table I presents a summary of the Existing peak hour LOS at the study intersections. Table II presents a summary of the Existing peak hour LOS at the study segments.

At present, the intersection of Minnewawa Avenue at Behymer Avenue exceeds its LOS threshold during both peak periods. It is recommended that the following improvements be considered for implementation to improve the LOS at this intersection.

- Minnewawa Avenue / Behymer Avenue
  - Add a northbound left-turn lane,
  - Modify the northbound left-through-right lane to a through-right lane;
  - Add a southbound left-turn lane; and
  - Modify the southbound left-through-right lane to a through-right lane.

## Table I: Existing Intersection LOS Results

| ID | Intersection | Intersection Control | AM (7 - 9) Peak Hour | | PM (4 - 6) Peak Hour | |
|---|---|---|---|---|---|---|
| | | | Average Delay (sec/veh) | LOS | Average Delay (sec/veh) | LOS |
| 1 | Minnewawa Avenue / Behymer Avenue | All-Way Stop | **39.5** | **E** | **55.9** | **F** |
| | | All-Way Stop (Improved) | 24.3 | C | 24.8 | C |
| 2 | Minnewawa Avenue / Perrin Avenue | Two-Way Stop | 14.3 | B | 16.3 | C |
| 3 | Clovis Avenue / Perrin Avenue | Does Not Exist | - | - | - | - |
| 4 | Clovis Avenue / Baron Avenue | Does Not Exist | - | - | - | - |
| 5 | Peach Avenue / Shepherd Avenue | Two -Way Stop | 16.7 | C | 26.0 | D |
| 6 | Minnewawa Avenue / Shepherd Avenue | Traffic Signal | 21.5 | C | 20.8 | C |
| 7 | Clovis Avenue / Shepherd Avenue | Traffic Signal | 19.9 | B | 20.1 | C |

Note: LOS = Level of Service based on average delay on signalized intersections and All-Way STOP Controls
LOS for two-way and one-way STOP controlled intersections are based on the worst approach/movement of the minor street.

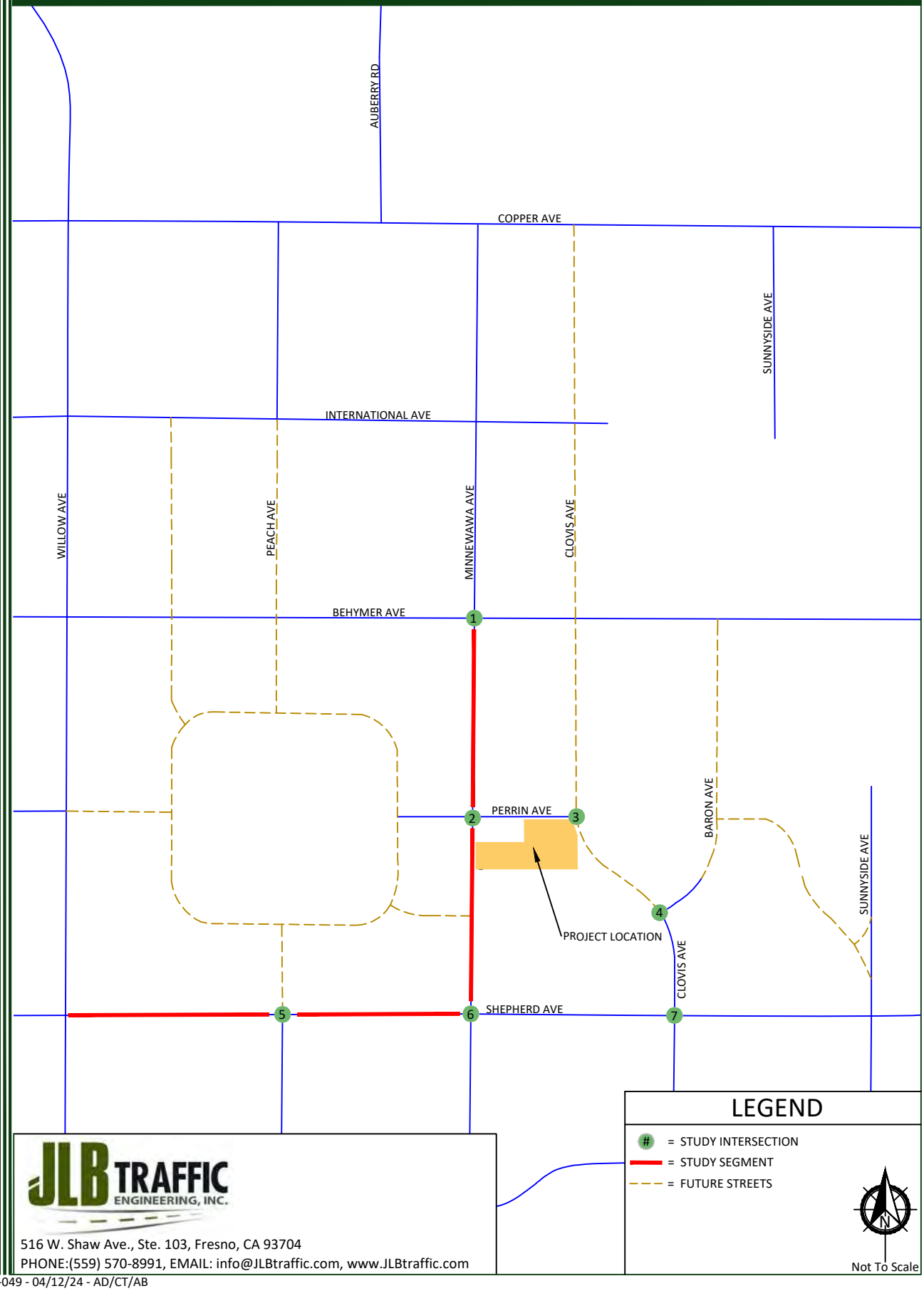
At present, all study segments operate at an acceptable LOS during both peak periods.

## Table II: Existing Segment LOS Results

| ID | Segment | Limits | Lanes | AM Peak Volume | AM LOS | PM Peak Volume | PM LOS |
|---|---|---|---|---|---|---|---|
| 1 | Minnewawa Avenue | Behymer Avenue and Perrin Avenue | 2 | 689 | B | 689 | C |
| 2 | Minnewawa Avenue | Perrin Avenue and Shepherd Avenue | 2 | 704 | B | 703 | C |
| 3 | Shepherd Avenue | Willow Avenue and Peach Avenue | 3 | 1,082 | C | 1,246 | C |
| 4 | Shepherd Avenue | Peach Avenue and Minnewawa Avenue | 3 | 1,229 | D | 1,216 | C |

# Clovis and Perrin Subdivision - City of Clovis
# Vicinity Map



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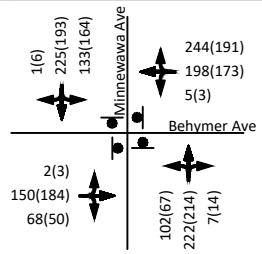
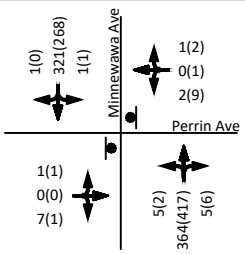
# Clovis and Perrin Subdivision - City of Clovis
# Existing - Traffic Volumes, Geometrics and Controls

AGENDA ITEM NO. 17.

| 1 | Minnewawa Ave & Behymer Ave | 2 | Minnewawa Ave & Perrin Ave | 3 | Clovis Ave & Perrin Ave | 4 | Clovis Ave & Baron Ave |
|---|---|---|---|---|---|---|---|

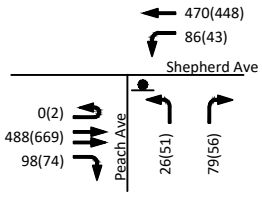


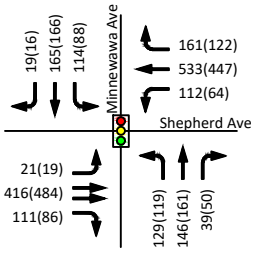



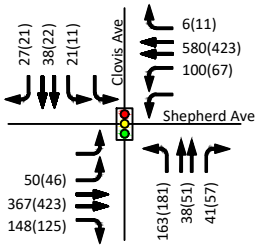

DOES NOT EXIST

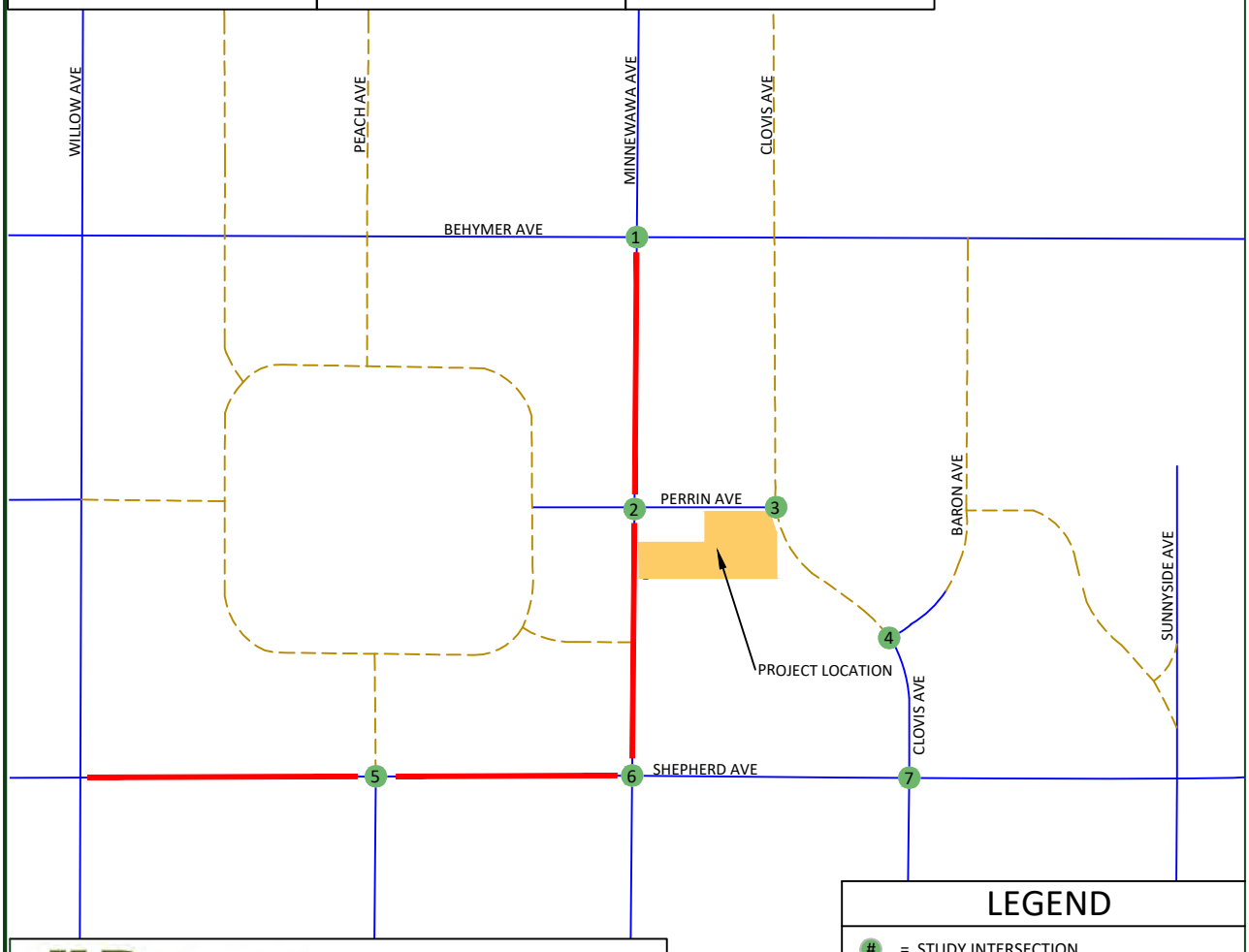
DOES NOT EXIST

| 5 | Peach Ave & Shepherd Ave | 6 | Minnewawa Ave & Shepherd Ave | 7 | Clovis Ave Shepherd Ave |
|---|---|---|---|---|---|




## LEGEND

- # = STUDY INTERSECTION
- = STUDY SEGMENT
- = FUTURE STREETS
- XX = AM PEAK HOUR TRIPS
- (XX) = PM PEAK HOUR TRIPS
- = STOP SIGN
- = TRAFFIC SIGNAL

N

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# Existing plus Project Traffic Conditions

## Project Description

The Project is proposing to develop the southwest corner of Clovis Avenue and Perrin Avenue with 162 single family residential units. Based on information provided to JLB, the Project is consistent with the City of Clovis *General Plan*. Figure 3 illustrates the latest Project Site Plan.

## Project Access

Based on the latest Project Site Plan, access to and from the Project site will be from two (2) access points. Project Driveway A is located on the south side of Perrin Avenue approximately 900 feet east of Minnewawa Avenue and is proposed to have full access. Project Driveway B is located on the east side of Minnewawa Avenue approximately 425 feet south of Perrin Avenue and proposed to have full access.

JLB analyzed the location of the existing and proposed roadways and access points relative to those in the vicinity of the Project site. A review of the existing and proposed roadways and access points indicates that they are located at points that minimize traffic operational impacts to existing and future roadway networks. The latest Project Site Plan can be found in Figure 3.

## Project Trip Generation

The trip generation rates for the proposed Project were obtained from the 11th Edition of the Trip Generation Manual published by the Institute of Transportation Engineers (ITE). Table III presents the trip generation for the proposed Project with trip generation rates for 162 dwelling units of Single-Family Detached Housing (210). At buildout, the proposed Project is estimated to generate approximately 1,528 daily trips, 113 AM peak hour trips and 152 PM peak hour trips.

**Table III: Project Trip Generation**

| *Land Use (ITE Code)* | *Size* | *Unit* | *Daily* | | *AM Peak Hour* | | | | | | *PM Peak Hour* | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | *Rate* | *Total* | *Trip Rate* | *In* | *Out* | *In* | *Out* | *Total* | *Trip Rate* | *In* | *Out* | *In* | *Out* | *Total* |
| | | | | | | *%* | | | | | | *%* | | | | |
| Single-Family Detached Housing (210) | 162 | d.u. | 9.43 | 1,528 | 0.70 | 26 | 74 | 29 | 84 | 113 | 0.94 | 63 | 37 | 96 | 56 | 152 |
| ***Total Driveway Trips*** | | | | **1,528** | | | | **29** | **84** | **113** | | | | **96** | **56** | **152** |

Note: d.u. = Dwelling Units

## Trip Distribution

The trip distribution assumptions were developed based on existing travel patterns, the Fresno COG ABM Project Select Zone, the existing roadway network, engineering judgment, existing residential and commercial densities and the *Clovis General Plan* Circulation Element in the vicinity of the Project site. The Project's trip generation data was provided to Kittelson & Associates to conduct a Project-specific Traffic Analysis Zone (TAZ) analysis using the Fresno COG ABM (Cumulative Year 2046). The Fresno COG Project Select Zone results are contained in Appendix C. Figure 4 illustrates the Project Only Trips at the study intersections.

## Active Transportation Plan

The City of Clovis *Active Transportation Plan* (ATP) is an extensive guide detailing the conception for active transportation in the City of Clovis that was adopted in September 2023. This ATP provides strategies to promote the use of walking, bicycling, transit and other alternative modes of transportation. In order to achieve these goals for active transportation, this ATP proposes a comprehensive network of citywide bikeways, trails and sidewalks. The recommended network would add 27 miles of Class I Bike Paths, 85 miles of Class II Bike Lanes, 11 miles of Class III Bike Routes, 8 miles of Paseos for a total of 131 miles of additional bikeways. This ATP also recommends bicycle detection at traffic signals, destination signage, bicycle parking and bikeway maintenance. This network will be constructed in conjunction with adjacent land developments, roadway maintenance and active transportation infrastructure projects using funds from different local, state and federal sources.

## Bikeways

The City of Clovis ATP classifies bicycle facilities into the following types:

- Class I Bikeway (Shared-Use Paths and Trails) – Provides a completely separated right-of-way for exclusive use of bicycles and pedestrians with crossflow minimized.
- Class II Bikeway (Bike Lane and Buffered Bike Lane) – Provides a striped lane for one-way bike travel on a street or highway.
- Class III Bikeway (Shared Roadway and Bicycle Boulevard) – Provides a shared use with pedestrians or motor vehicle traffic, typically on lower volume roadways.
- Class IV Bikeways (Separated Bike Lane) – Provides a protected lane for one-way bike travel (one-way cycle track) and protected lanes for two-way bike travel (two-way cycle track) on a street or highway.

Class II (Bike Lane) Bikeways exist in the vicinity of the Project site. In the vicinity of the Project site, Class II Bikeways exist along portions of Shepherd Avenue, Peach Avenue, Minnewawa Avenue and Clovis Avenue. The City of Clovis ATP recommends that Class I and Class II Bikeways be implemented adjacent to and in the vicinity of the Project site (City of Clovis, 2023). Adjacent to the Project site, a Class I Bikeway is planned along the west side of Minnewawa Avenue and a Class II Bikeway is planned along Perrin Avenue. In the vicinity of the Project site, Class II Bikeways are planned on Behymer Avenue, Perrin Avenue, Shepherd Avenue, Peach Avenue, Minnewawa Avenue and Clovis Avenue. In the vicinity of the Project site, a Class I Bikeway is planned on Clovis Avenue. Therefore, it is recommended that the Project construct a Class II Bikeway on its frontage to Perrin Avenue.

## Transit

Clovis Stageline and Round Up are the transit operators in the City of Clovis. At present, there is one (1) Stageline route that operates in the vicinity of the proposed Project site, Route 80. Stageline Route 80 operates on Clovis Unified School District schedule only. This route operates between 7:39 AM - 8:00 AM and 3:25 PM - 3:47 PM, stopping at each stop once during each operational period. This route starts at the intersection of Sunnyside Avenue at Fifth Avenue and goes to the intersection of Peach Avenue at Teague Avenue in the morning and reverses the route in the afternoon. The nearest stop to the Project is located at Buchanan High School.

## Roadway Network

The Existing plus Project Traffic Conditions scenario assumes that the existing roadway geometrics and traffic controls will remain in place with the exception of the Project with its access points, the extension of Clovis Avenue north of Baron Avenue to Perrin Avenue and the extension of Perrin Avenue east of Minnewawa Avenue to Clovis Avenue. Figure 5 illustrates the assumed intersection geometrics and traffic controls for these intersections under this scenario.

## Traffic Signal Warrants

Warrant 3 was prepared for the unsignalized study intersections under the Existing plus Project Traffic Conditions scenario. These warrants are contained in Appendix I. Under this scenario, the intersections of Minnewawa Avenue at Behymer Avenue and Peach Avenue at Shepherd Avenue are projected to satisfy the peak hour signal warrant during both peak periods. Based on the operational analysis and engineering judgment, signalization of these intersections is not recommended. The CA MUTCD states "satisfaction of a signal warrant or warrants shall not in itself require the installation of a traffic signal."

## Results of Existing plus Project Level of Service Analysis

Figure 5 illustrates the Existing plus Project turning movement volumes, intersection geometrics and traffic controls. LOS worksheets for the Existing plus Project Traffic Conditions scenario are provided in Appendix F. Table IV presents a summary of the Existing plus Project peak hour LOS at the study intersections. Table V presents a summary of the Existing plus Project peak hour LOS at the study segments.

Under this scenario, the intersection of Minnewawa Avenue at Behymer Avenue is projected to exceed its LOS threshold during both peak periods. It is recommended that the following improvements be considered for implementation to improve the LOS at this intersection.

- Minnewawa Avenue / Behymer Avenue
  - Add a northbound left-turn lane,
  - Modify the northbound left-through-right lane to a through-right lane;
  - Add a southbound left-turn lane; and
  - Modify the southbound left-through-right lane to a through-right lane.

## Table IV: Existing plus Project Intersection LOS Results

| ID | Intersection | Intersection Control | AM (7 - 9) Peak Hour | | PM (4 - 6) Peak Hour | |
|---|---|---|---|---|---|---|
| | | | Average Delay (sec/veh) | LOS | Average Delay (sec/veh) | LOS |
| 1 | Minnewawa Avenue / Behymer Avenue | All-Way Stop | **45.5** | **E** | **57.7** | **F** |
| | | All-Way Stop (Improved) | 25.2 | D | 25.4 | D |
| 2 | Minnewawa Avenue / Perrin Avenue | Two-Way Stop | 12.0 | B | 14.3 | B |
| 3 | Clovis Avenue / Perrin Avenue | Does Not Exist | - | - | - | - |
| 4 | Clovis Avenue / Baron Avenue | Two -Way Stop | 9.5 | A | 9.6 | A |
| 5 | Peach Avenue / Shepherd Avenue | Two -Way Stop | 17.1 | C | 27.2 | D |
| 6 | Minnewawa Avenue / Shepherd Avenue | Traffic Signal | 23.3 | C | 22.6 | C |
| 7 | Clovis Avenue / Shepherd Avenue | Traffic Signal | 18.9 | B | 19.0 | B |

Note: LOS = Level of Service based on average delay on signalized intersections and All-Way STOP Controls
LOS for two-way and one-way STOP controlled intersections are based on the worst approach/movement of the minor street.

Under this scenario, all study segments are projected to operate at an acceptable LOS during both peak periods.

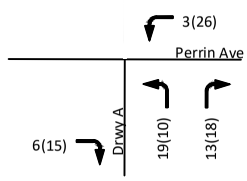
## Table V: Existing plus Project Segment LOS Results

| ID | Segment | Limits | Lanes | AM Peak Volume | AM LOS | PM Peak Volume | PM LOS |
|---|---|---|---|---|---|---|---|
| 1 | Minnewawa Avenue | Behymer Avenue and Perrin Avenue | 2 | 710 | B | 699 | C |
| 2 | Minnewawa Avenue | Perrin Avenue and Shepherd Avenue | 2 | 590 | B | 622 | B |
| 3 | Shepherd Avenue | Willow Avenue and Peach Avenue | 3 | 1,102 | C | 1,280 | C |
| 4 | Shepherd Avenue | Peach Avenue and Minnewawa Avenue | 3 | 1,251 | D | 1,253 | C |

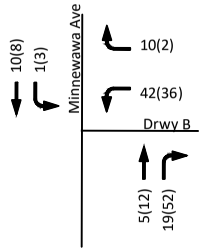
# Clovis and Perrin Subdivision - City of Clovis
# Project Site Plan

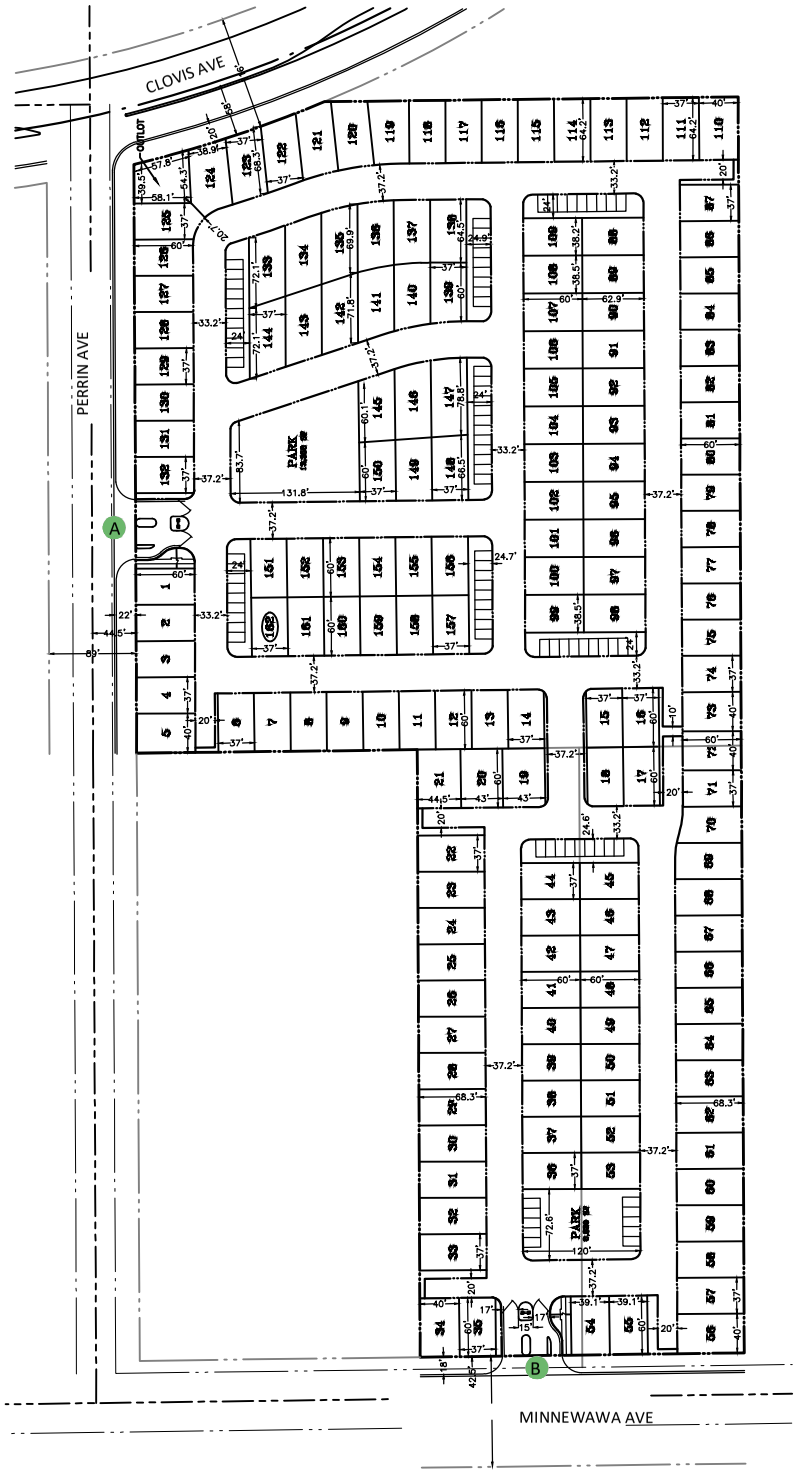
Figure 3

| | |
|---|---|
| A | Drwy A / Perrin Ave |




| | |
|---|---|
| B | Minnewawa Ave / Drwy B |

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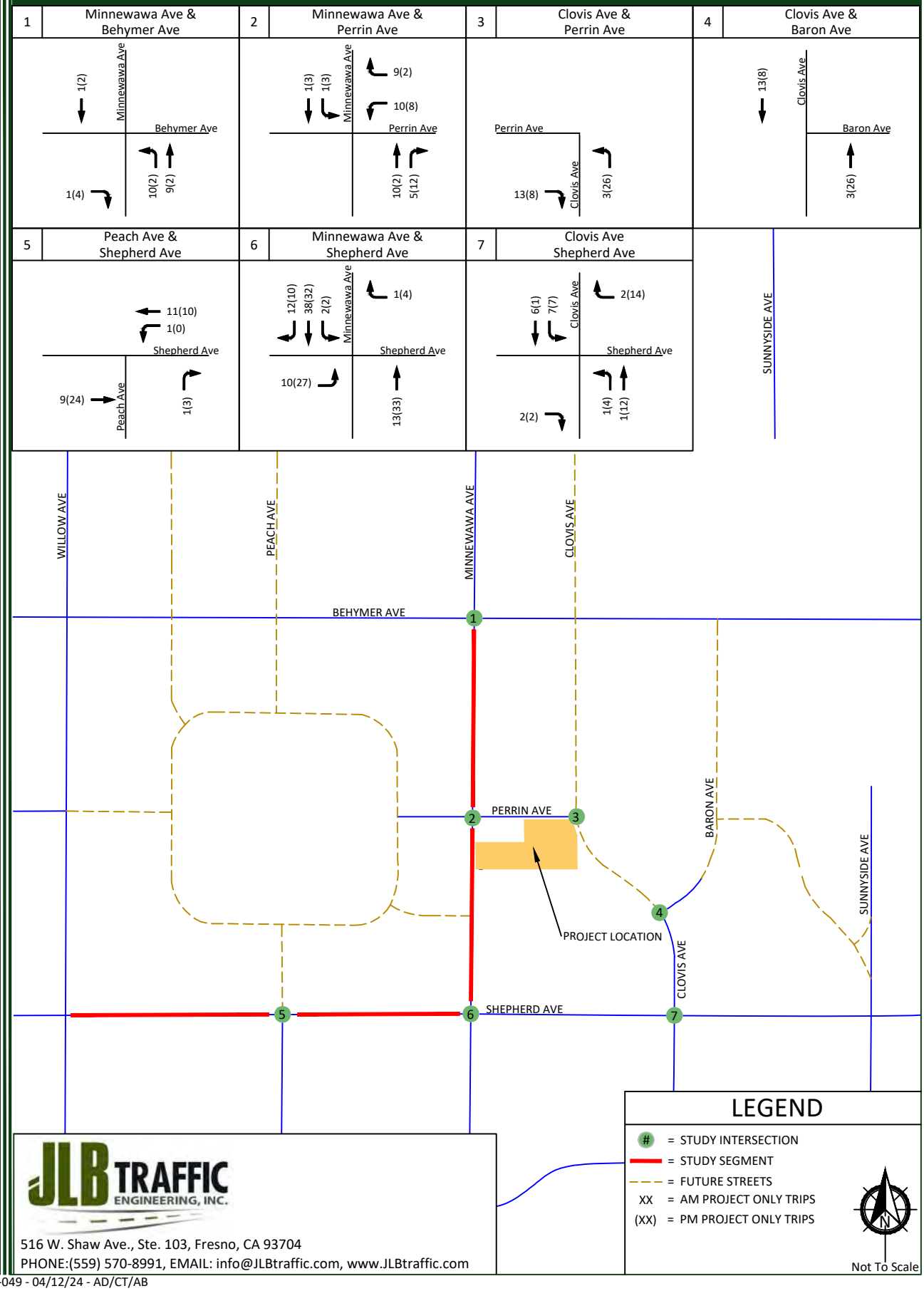
# Clovis and Perrin Subdivision - City of Clovis
# Project Only Trips






## LEGEND

- # = STUDY INTERSECTION
- = STUDY SEGMENT
- = FUTURE STREETS
- XX = AM PROJECT ONLY TRIPS
- (XX) = PM PROJECT ONLY TRIPS

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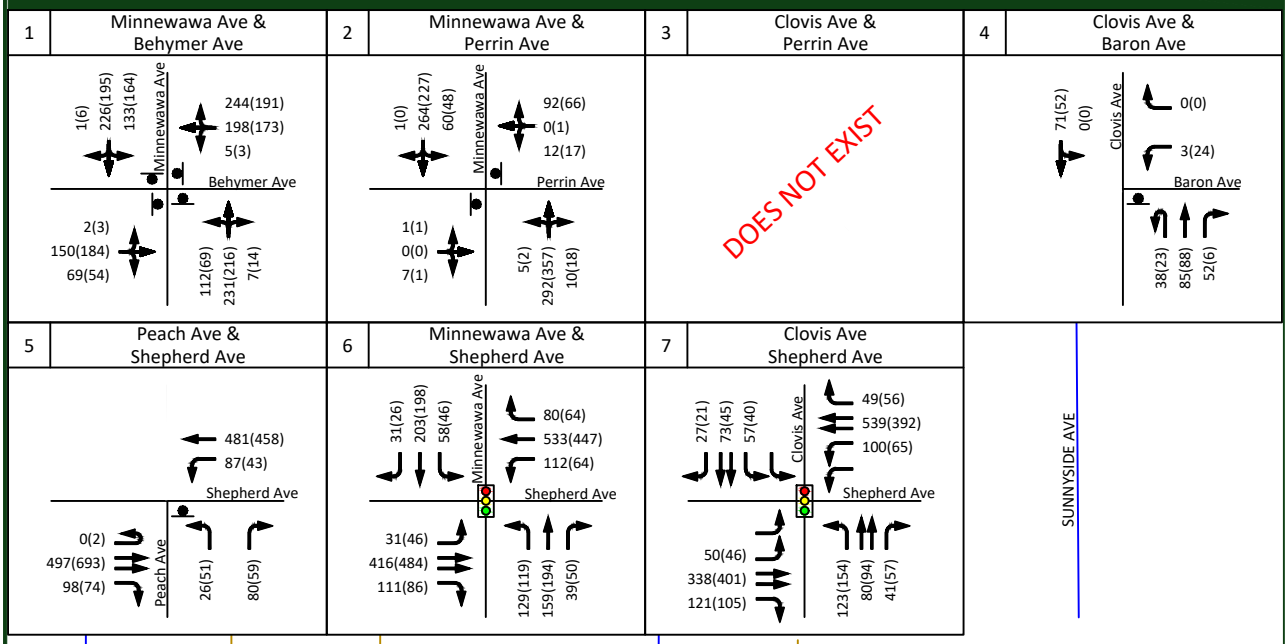
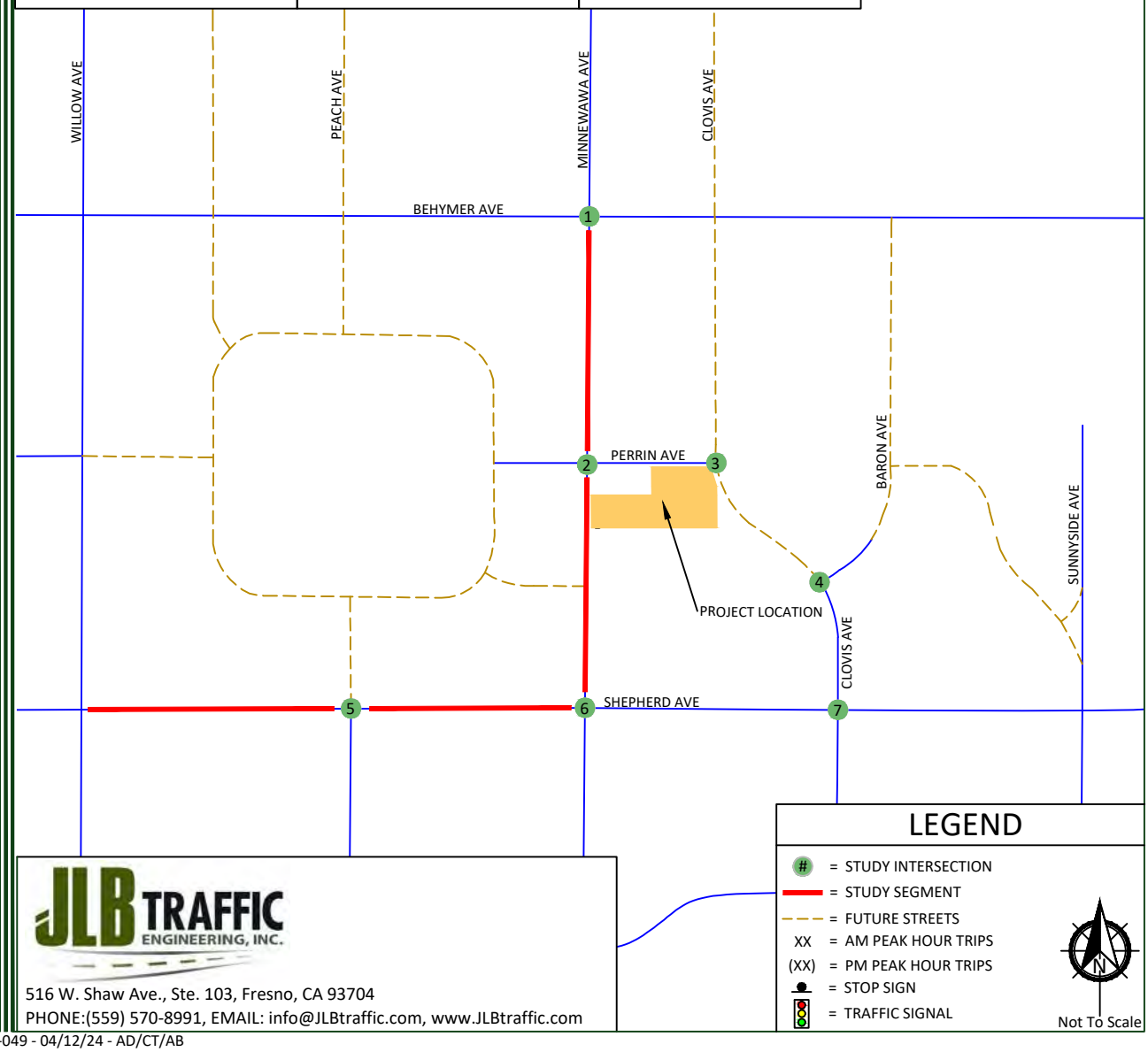
# Clovis and Perrin Subdivision - City of Clovis
# Existing plus Project - Traffic Volumes, Geometrics and Controls

AGENDA ITEM NO. 17.





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# Near Term plus Project Traffic Conditions

## Description of Near Term Projects

Near Term Projects consist of developments that are either under construction, built but not fully occupied, are not built but have final site development review (SDR) approval, or for which the lead agency or responsible agencies have knowledge of. The City of Clovis, County of Fresno and Caltrans staff were consulted throughout the preparation of this TIA regarding Near Term Projects that could potentially impact study facilities. JLB staff conducted a reconnaissance of the surrounding area to confirm the Near Term Projects. Therefore, the Near Term Projects listed in Table VI were within proximity of the Project site.

### Table VI: Near Term Projects' Trip Generation

| *Near Term Project ID* | *Near Term Project Name* | *Daily Trips* | *AM Peak Hour* | *PM Peak Hour* |
|---|---|---|---|---|
| A | Clovis Community Medical Center[2] | 21,006 | 1,135 | 1,857 |
| B | Copper River Ranch[2] | 26,553 | 1,768 | 2,343 |
| C | Golden Triangle[2] | 8,881 | 628 | 840 |
| D | Harlan Ranch Commercial[1] | 7,409 | 277 | 708 |
| E | Heritage Grove – The Avenue[1] | 3,786 | 192 | 380 |
| F | Locan 35[2] | 595 | 47 | 62 |
| G | P21-01385[1] | 7,364 | 510 | 550 |
| H | P21-02506[1] | 708 | 43 | 54 |
| I | P22-00358[1] | 482 | 46 | 36 |
| J | Research and Technology Park[3] | 16,053 | 2,349 | 2,152 |
| K | TT 6154[1] | 57 | 4 | 6 |
| L | TT 6200[2] | 3,776 | 296 | 396 |
| M | TT 6205[3] | 5,705 | 424 | 569 |
| N | TT 6264[1] | 66 | 5 | 7 |
| O | TT 6284[3] | 585 | 43 | 58 |
| P | TT 6343[3] | 5,564 | 413 | 555 |
| Q | TT 6375[3] | 3,649 | 271 | 364 |
| R | TT 6452[3] | 1,443 | 107 | 144 |
| S | TT 6268[1] | 94 | 7 | 10 |
| T | TT 6367[1] | 47 | 3 | 5 |
| U | Tru Hotel Site[1] | 687 | 39 | 51 |
| **Total Near Term Project Trips** | | **114,510** | **8,607** | **11,147** |

Note: 1 = Trip Generation prepared by JLB Traffic Engineering, Inc. based on readily available information
2 = Trip Generation based on JLB Traffic Engineering, Inc. Traffic Impact Analysis Report
3 = Trip Generation based on a Traffic Impact Analysis Report by another Traffic Engineering Firm

The trip generation listed in Table VI is that which is anticipated to be added to the streets and highways by Near Term Projects between the time of the preparation of this Report and five (5) years after buildout of the proposed Project. As shown in Table VI, the total trip generation for the Near Term Projects is 114,510 weekday daily trips, 8,607 weekday AM peak hour trips and 11,147 weekday PM peak hour trips. Figure 6 illustrates the location of the Near Term Projects and their combined trip assignment to the study intersections and segments under the Near Term plus Project Traffic Conditions scenario.

## Roadway Network

The Near Term plus Project Traffic Conditions scenario assumes that the Existing plus Project Traffic Conditions roadway geometrics and traffic controls will remain in place. Figure 7 illustrates the assumed intersection geometrics and traffic controls for these intersections under this scenario.

## Traffic Signal Warrants

Warrant 3 was prepared for the unsignalized study intersections under the Near Term plus Project Traffic Conditions scenario. These warrants are contained in Appendix I. Under this scenario, the intersections of Minnewawa Avenue at Behymer Avenue, Minnewawa Avenue at Perrin Avenue, Clovis Avenue at Baron Avenue and Peach Avenue at Shepherd Avenue are projected to satisfy the peak hour signal warrant during both peak periods. Based on the traffic signal warrants, operational analysis and engineering judgment, signalization of the intersections of Minnewawa Avenue at Behymer Avenue and Peach Avenue at Shepherd Avenue are recommended.

## Results of Near Term plus Project Level of Service Analysis

Figure 7 illustrates the Near Term plus Project turning movement volumes, intersection geometrics and traffic controls. LOS worksheets for the Near Term plus Project Traffic Conditions scenario are provided in Appendix G. Table VII presents a summary of the Near Term plus Project peak hour LOS at the study intersections. Table VIII presents a summary of the Near Term plus Project peak hour LOS at the study segments.

Under this scenario, the study intersections of Minnewawa Avenue at Behymer Avenue, Peach Avenue at Shepherd Avenue and Minnewawa Avenue at Shepherd Avenue are projected to exceed their LOS thresholds during both peak periods. It is recommended that the following improvements be considered for implementation to improve the LOS at these intersections.

- Minnewawa Avenue / Behymer Avenue
  - Add an eastbound left-turn lane;
  - Modify the eastbound left-through-right lane to a through-right lane;
  - Add a westbound left-turn lane;
  - Modify the westbound left-through-right lane to a through-right lane;
  - Add a northbound left-turn lane,
  - Modify the northbound left-through-right lane to a through-right lane;
  - Add a southbound left-turn lane;
  - Modify the southbound left-through-right lane to a through-right lane; and
  - Signalize the intersection with protective left-turn and pedestrian phasing.
- Peach Avenue / Shepherd Avenue
  - Add a second westbound through lane with a receiving lane west of Peach Avenue; and
  - Signalize the intersection with protective left-turn and pedestrian phasing.

- Minnewawa Avenue / Shepherd Avenue
  - Modify the westbound right-turn lane to a through-right lane with a receiving lane west of Minnewawa Avenue; and
  - Modify the traffic signal to accommodate the additional lane.

## Table VII: Near Term plus Project Intersection LOS Results

| ID | Intersection | Intersection Control | AM (7 - 9) Peak Hour | | PM (4 - 6) Peak Hour | |
|---|---|---|---|---|---|---|
| | | | Average Delay (sec/veh) | LOS | Average Delay (sec/veh) | LOS |
| 1 | Minnewawa Avenue / Behymer Avenue | All-Way Stop | **107.1** | **F** | **>120.0** | **F** |
| | | Traffic Signal (Improved) | 27.5 | C | 29.9 | C |
| 2 | Minnewawa Avenue / Perrin Avenue | Two-Way Stop | 13.7 | B | 19.2 | C |
| 3 | Clovis Avenue / Perrin Avenue | Does Not Exist | - | - | - | - |
| 4 | Clovis Avenue / Baron Avenue | Two-Way Stop | 26.2 | D | 26.5 | D |
| 5 | Peach Avenue / Shepherd Avenue | Two -Way Stop | **106.7** | **F** | **>120.0** | **F** |
| | | Traffic Signal (Improved) | 25.0 | C | 23.0 | C |
| 6 | Minnewawa Avenue / Shepherd Avenue | Traffic Signal | **80.0** | **E** | **90.1** | **F** |
| | | Traffic Signal (Improved) | 41.7 | D | 44.3 | D |
| 7 | Clovis Avenue / Shepherd Avenue | Traffic Signal | 40.8 | D | 44.7 | D |

Note: LOS = Level of Service based on average delay on signalized intersections and All-Way STOP Controls
LOS for two-way and one-way STOP controlled intersections are based on the worst approach/movement of the minor street.

Under this scenario, the study segments of Shepherd Avenue between Willow Avenue and Peach Avenue and Shepherd Avenue between Peach Avenue and Minnewawa Avenue are projected to exceed their LOS thresholds during one or both peak periods. It is recommended that the following improvements be considered for implementation to improve the LOS at these segments.

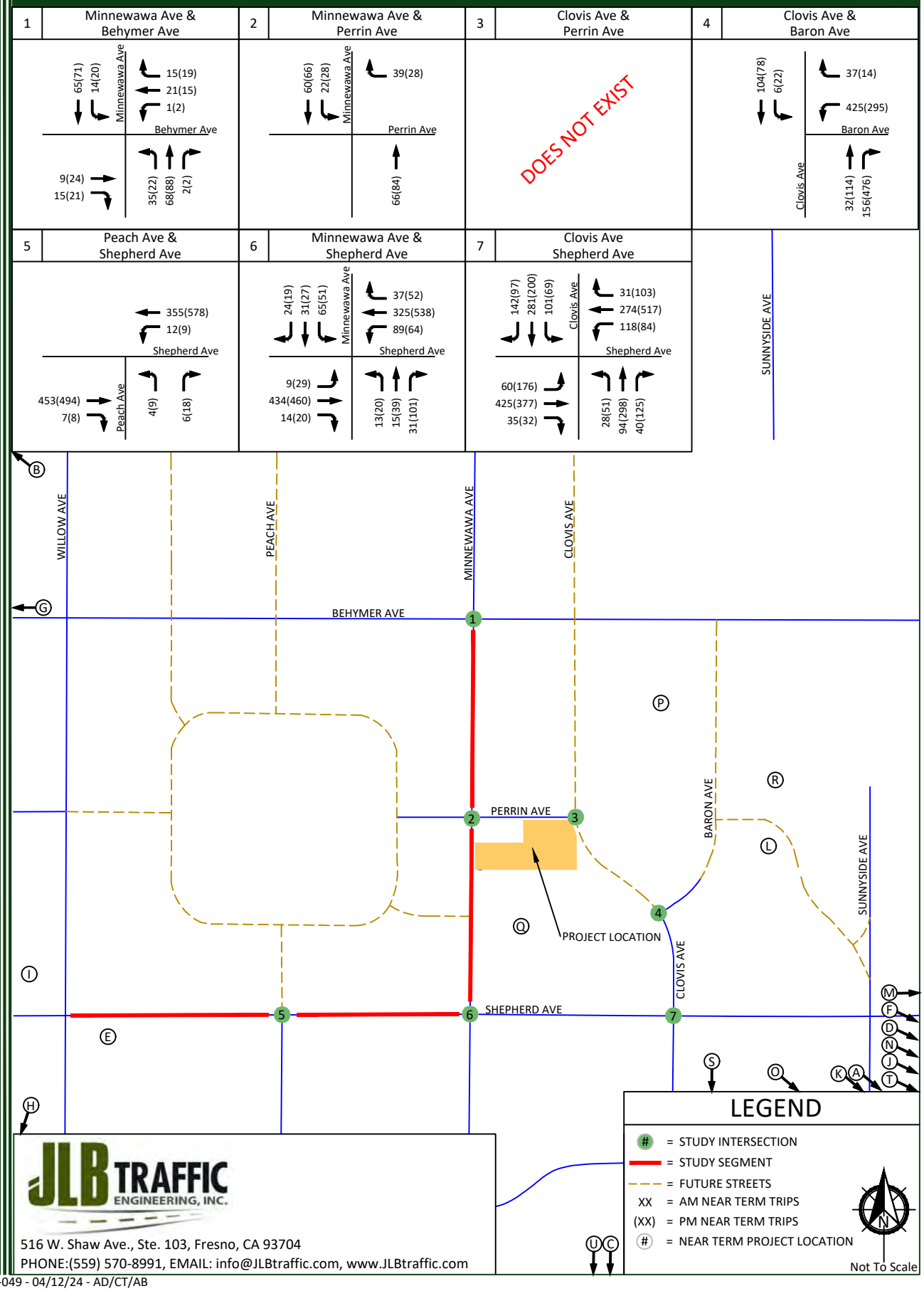
- Shepherd Avenue between Willow Avenue and Peach Avenue
  - Add a second westbound through lane.
- Shepherd Avenue between Peach Avenue and Minnewawa Avenue
  - Add a second westbound through lane.

## Table VIII: Near Term plus Project Segment LOS Results

| ID | Segment | Limits | Lanes | AM Peak Volume | AM LOS | PM Peak Volume | PM LOS |
|---|---|---|---|---|---|---|---|
| 1 | Minnewawa Avenue | Behymer Avenue and Perrin Avenue | 2 | 897 | C | 905 | C |
| 2 | Minnewawa Avenue | Perrin Avenue and Shepherd Avenue | 2 | 743 | B | 791 | C |
| 3 | Shepherd Avenue | Willow Avenue and Peach Avenue | 3 | 1,921 | D | 2,369 | E |
| | | Willow Avenue and Peach Avenue (Imp.) | 4 | | B | | B |
| 4 | Shepherd Avenue | Peach Avenue and Minnewawa Avenue (Imp.) | 3 | 2,070 | E | 2,352 | E |
| | | | 4 | | B | | B |

# Clovis and Perrin Subdivision - City of Clovis
# Near Term Projects' Trip Assignment

AGENDA ITEM NO. 17.




## LEGEND

- # = STUDY INTERSECTION
- = STUDY SEGMENT
- = FUTURE STREETS
- XX = AM NEAR TERM TRIPS
- (XX) = PM NEAR TERM TRIPS
- (#) = NEAR TERM PROJECT LOCATION

Not To Scale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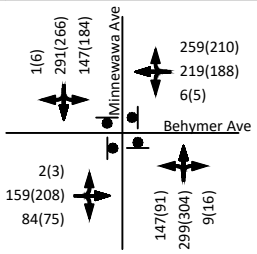
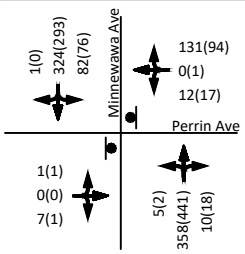
# Clovis and Perrin Subdivision - City of Clovis
# Near Term plus Project - Traffic Volumes, Geometrics and Controls

AGENDA ITEM NO. 17.

## 1 Minnewawa Ave & Behymer Ave



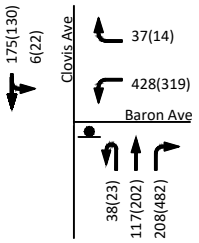

## 2 Minnewawa Ave & Perrin Ave



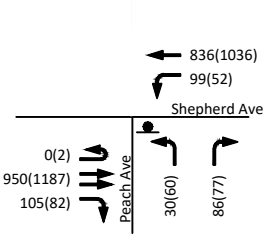

## 3 Clovis Ave & Perrin Ave

DOES NOT EXIST

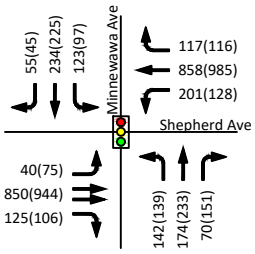
## 4 Clovis Ave & Baron Ave



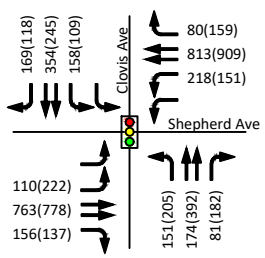

## 5 Peach Ave & Shepherd Ave



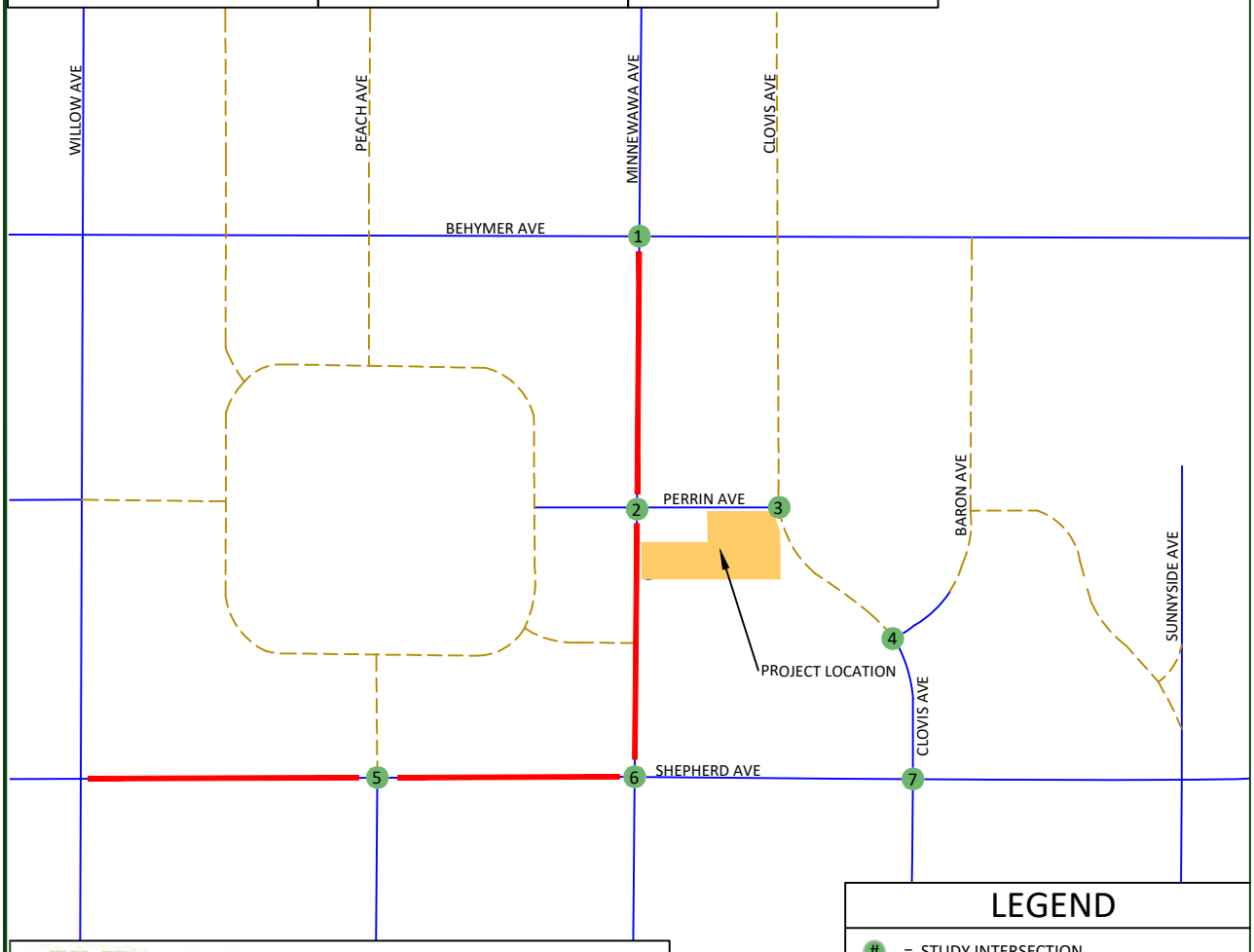

## 6 Minnewawa Ave & Shepherd Ave




## 7 Clovis Ave Shepherd Ave




SUNNYSIDE AVE




## LEGEND

- # = STUDY INTERSECTION
- = STUDY SEGMENT
- = FUTURE STREETS
- XX = AM PEAK HOUR TRIPS
- (XX) = PM PEAK HOUR TRIPS
- = STOP SIGN
- = TRAFFIC SIGNAL

N

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# Cumulative Year 2046 plus Project Traffic Conditions

## Roadway Network

The Cumulative Year 2046 plus Project Traffic Conditions scenario assumes that the Near Term plus Project roadway geometrics and traffic controls will remain in place with two exceptions. The two exceptions include the extension of Clovis Avenue north of Perrin Avenue to Copper Avenue and the extension of Peach Avenue north of Shepherd Avenue to Pryor Avenue. Figure 8 illustrates the assumed intersection geometrics and traffic controls for these intersections under this scenario.

## Traffic Signal Warrants

Warrant 3 was prepared for the unsignalized study intersections under the Cumulative Year 2046 plus Project Traffic Conditions scenario. These warrants are contained in Appendix I. Under this scenario, the intersections of Minnewawa Avenue at Behymer Avenue, Minnewawa Avenue at Perrin Avenue, Clovis Avenue at Perrin Avenue, Clovis Avenue at Baron Avenue and Peach Avenue at Shepherd Avenue are projected to satisfy the peak hour signal warrant during one or both peak periods. Based on the traffic signal warrants, operational analysis and engineering judgment, signalization of the intersections of Minnewawa Avenue at Behymer Avenue, Clovis Avenue at Baron Avenue and Peach Avenue at Shepherd Avenue are recommended.

## Results of Cumulative Year 2046 plus Project Level of Service Analysis

Figure 8 illustrates the Cumulative Year 2046 plus Project turning movement volumes, intersection geometrics and traffic controls. LOS worksheets for the Cumulative Year 2046 plus Project Traffic Conditions scenario are provided in Appendix H. Table IX presents a summary of the Cumulative Year 2046 plus Project peak hour LOS at the study intersections. Table X presents a summary of the Cumulative Year 2046 plus Project peak hour LOS at the study segments.

Under this scenario, the study intersections of Minnewawa Avenue at Behymer Avenue, Minnewawa Avenue at Perrin Avenue, Clovis Avenue at Baron Avenue, Peach Avenue at Shepherd Avenue and Minnewawa Avenue at Shepherd Avenue are projected to exceed their LOS thresholds during one or both peak periods. It is recommended that the following improvements be considered for implementation to improve the LOS at these intersections.

- Minnewawa Avenue / Behymer Avenue
  - Add an eastbound left-turn lane;
  - Modify the eastbound left-through-right lane to a through-right lane;
  - Add a westbound left-turn lane;
  - Modify the westbound left-through-right lane to a through-right lane;
  - Add a northbound left-turn lane,
  - Modify the northbound left-through-right lane to a through-right lane;
  - Add a southbound left-turn lane;
  - Modify the southbound left-through-right lane to a through-right lane; and
  - Signalize the intersection with protective left-turn and pedestrian phasing.

- Minnewawa Avenue / Perrin Avenue
  - Add an eastbound left-turn lane;
  - Modify the eastbound left-through-right lane to a through lane;
  - Add an eastbound right-turn lane;
  - Add a westbound left-turn lane;
  - Modify the westbound left-through-right lane to a through-right lane;
  - Add a northbound left-turn lane,
  - Modify the northbound left-through-right lane to a through-right lane;
  - Add a southbound left-turn lane; and
  - Modify the southbound left-through-right lane to a through-right lane.
- Clovis Avenue / Baron Avenue
  - Add a southbound left-turn lane; and
  - Signalize the intersection with protective left-turn and pedestrian phasing.
- Peach Avenue / Shepherd Avenue
  - Modify the westbound through-right lane to a through lane;
  - Add a second westbound through lane with a receiving lane west of Peach Avenue;
  - Add a westbound right-turn lane; and
  - Signalize the intersection with protective left-turn and pedestrian phasing.
- Minnewawa Avenue / Shepherd Avenue
  - Add a westbound through lane with receiving lane west of Minnewawa Avenue; and
  - Modify the traffic signal to accommodate the additional lane.

## Table IX: Cumulative Year 2046 plus Project Intersection LOS Results

| *ID* | *Intersection* | *Intersection Control* | *AM (7 - 9) Peak Hour* | | *PM (4 - 6) Peak Hour* | |
|---|---|---|---|---|---|---|
| | | | *Average Delay (sec/veh)* | *LOS* | *Average Delay (sec/veh)* | *LOS* |
| 1 | Minnewawa Avenue / Behymer Avenue | All-Way Stop | **>120.0** | **F** | **>120.0** | **F** |
| | | Traffic Signal (Improved) | 34.2 | C | 37.2 | D |
| 2 | Minnewawa Avenue / Perrin Avenue | Two-Way Stop | 31.0 | D | **69.6** | **F** |
| | | Two-Way Stop (Improved) | 23.6 | C | 33.4 | D |
| 3 | Clovis Avenue / Perrin Avenue | Two-Way Stop | 34.9 | D | 34.8 | D |
| 4 | Clovis Avenue / Baron Avenue | Two-Way Stop | **>120.0** | **F** | **>120.0** | **F** |
| | | Traffic Signal (Improved) | 28.3 | C | 23.8 | C |
| 5 | Peach Avenue / Shepherd Avenue | Two -Way Stop | **>120.0** | **F** | **>120.0** | **F** |
| | | Traffic Signal (Improved) | 39.6 | D | 28.2 | C |
| 6 | Minnewawa Avenue / Shepherd Avenue | Traffic Signal | **74.3** | **E** | **104.9** | **F** |
| | | Traffic Signal (Improved) | 52.9 | D | 53.2 | D |
| 7 | Clovis Avenue / Shepherd Avenue | Traffic Signal | 46.6 | D | 48.5 | D |

Note: LOS = Level of Service based on average delay on signalized intersections and All-Way STOP Controls
LOS for two-way and one-way STOP controlled intersections are based on the worst approach/movement of the minor street.

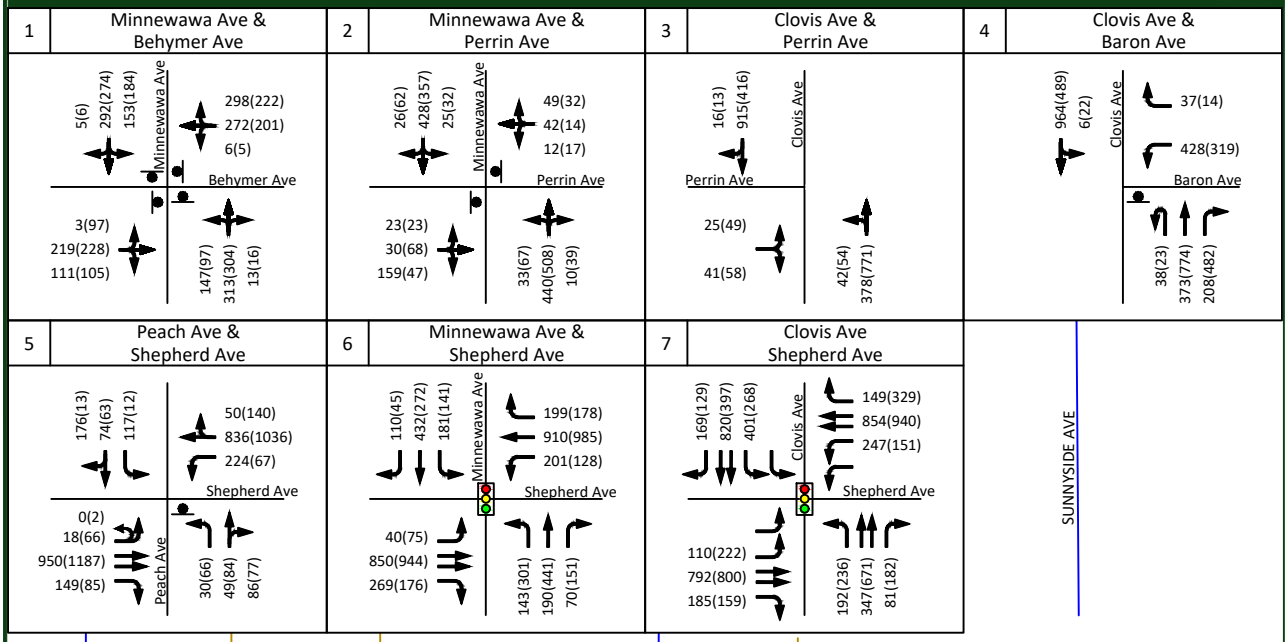
Under this scenario, the study segments of Shepherd Avenue between Willow Avenue and Peach Avenue and Shepherd Avenue between Peach Avenue and Minnewawa Avenue are projected to exceed their LOS thresholds during one or both peak periods. It is recommended that the following improvements be considered for implementation to improve the LOS at these segments.

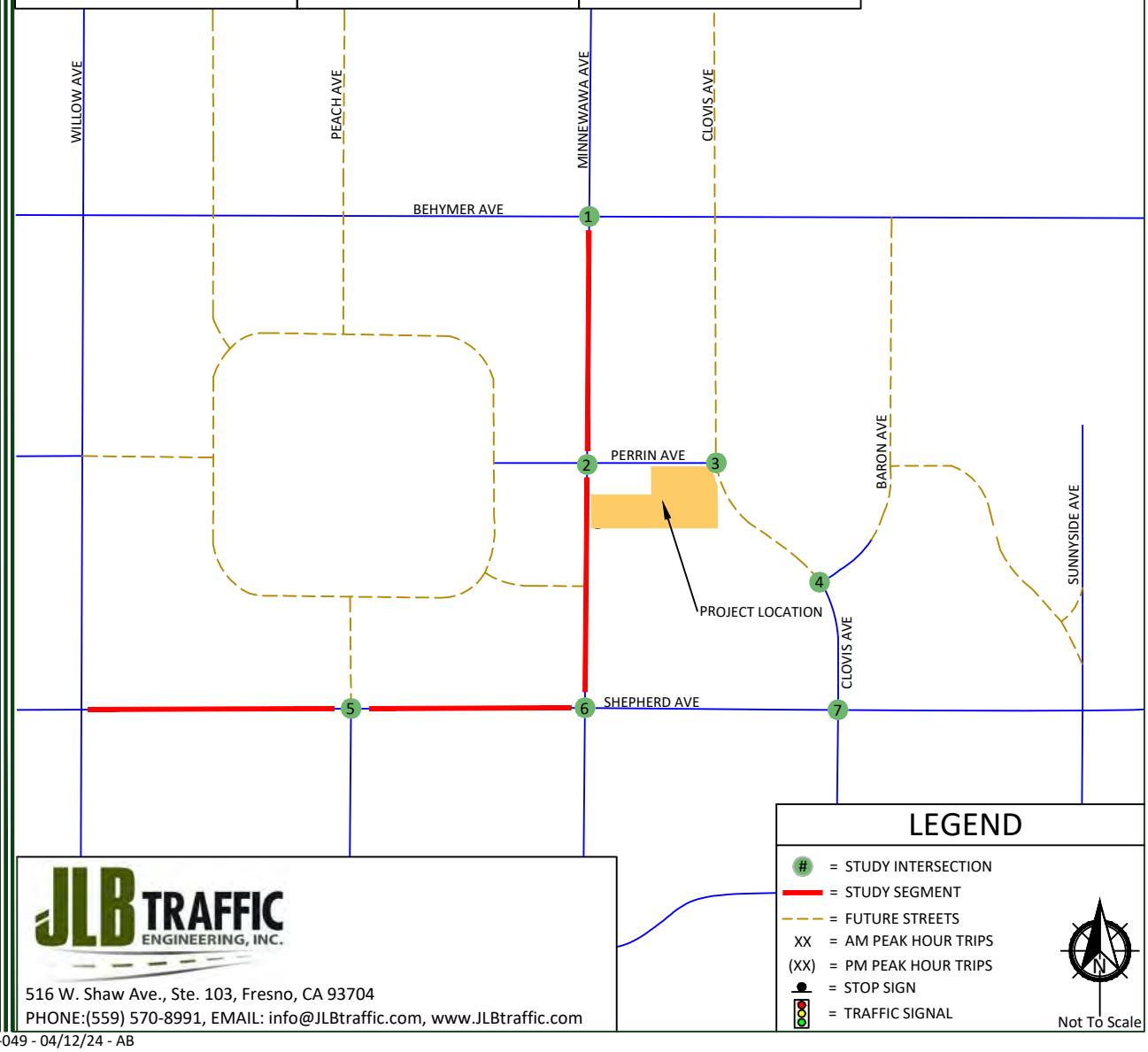
- Shepherd Avenue between Willow Avenue and Peach Avenue
  - Add a second westbound through lane.
- Shepherd Avenue between Peach Avenue and Minnewawa Avenue
  - Add a second westbound through lane.

**Table X: Cumulative Year 2046 plus Project Segment LOS Results**

| *ID* | *Segment* | *Limits* | *Lanes* | *AM Peak Volume* | *AM LOS* | *PM Peak Volume* | *PM LOS* |
|---|---|---|---|---|---|---|---|
| 1 | Minnewawa Avenue | Behymer Avenue and Perrin Avenue | 2 | 991 | C | 1,014 | C |
| 2 | Minnewawa Avenue | Perrin Avenue and Shepherd Avenue | 2 | 1,152 | D | 1,152 | D |
| 3 | Shepherd Avenue | Willow Avenue and Peach Avenue | 3 | 2,159 | E | 2,457 | E |
| | | Willow Avenue and Peach Avenue (Imp.) | 4 | | B | | B |
| 4 | Shepherd Avenue | Peach Avenue and Minnewawa Avenue | 3 | 2,322 | E | 2,526 | E |
| | | Peach Avenue and Minnewawa Avenue (Imp.) | 4 | | B | | B |

# Clovis and Perrin Subdivision - City of Clovis
# Cumulative Year 2046 plus Project - Traffic Volumes, Geometrics and Controls




## LEGEND

- # = STUDY INTERSECTION
- = STUDY SEGMENT
- = FUTURE STREETS
- XX = AM PEAK HOUR TRIPS
- (XX) = PM PEAK HOUR TRIPS
- = STOP SIGN
- = TRAFFIC SIGNAL

Not To Scale

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## Queuing Analysis

Table XI provides a queue length summary for left-turn and right-turn lanes at the study intersections under all study scenarios. The queuing analyses for the study intersections are contained in the LOS worksheets for the respective scenarios. Appendix D contains the methodologies used to evaluate these intersections. Queuing analyses were completed using SimTraffic output information. Synchro provides both 50th and 95th percentile maximum queue lengths (in feet). According to the *Synchro Studio 12 User Guide*, "the 50th percentile maximum queue is the maximum back of queue on a typical cycle and the 95th percentile queue is the maximum back of queue with 95th percentile volumes" (Cubic ITS, Inc., 2023). The queues shown in Table XI are the 95th percentile queue lengths for the respective lane movements.

The *California Highway Design Manual* (CA HDM) provides guidance for determining deceleration lengths for the left-turn and right-turn lanes based on design speeds. According to the CA HDM, tapers for right-turn lanes are "usually unnecessary since main line traffic need not be shifted laterally to provide space for the right-turn lane. If, in some rare instances, a lateral shift were needed, the approach taper would use the same formula as for a left-turn lane" (Caltrans, 2019). Therefore, a bay taper length pursuant to the CA HDM would need to be added, as necessary, to the recommended storage lengths presented in Table XI.

The storage capacity for the Cumulative Year 2046 plus Project Traffic Conditions shall be based on the SimTraffic output files and engineering judgment. The values in bold presented in Table XI are the projected queue lengths that will likely need to be accommodated by the Cumulative Year 2046 scenarios. At the remaining approaches of the study intersections, the existing storage capacity will be sufficient to accommodate the maximum queue.

## Table XI: Queuing Analysis

| ID | Intersection | Existing Queue Storage Length (ft.) | | Existing | | Existing plus Project | | Near Term plus Project | | Cumulative Year 2046 plus Project | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | AM | PM | AM | PM | AM | PM | AM | PM |
| 1 | Minnewawa Avenue / Behymer Avenue | Eastbound Left | * | * | * | * | * | 9 | 20 | 13 | **113** |
| | | Eastbound Through-Right | * | * | * | * | * | 109 | 150 | 167 | 179 |
| | | Eastbound Left-Through-Right | >500 | 84 | 82 | 97 | 67 | * | * | * | * |
| | | Westbound Left | * | * | * | * | * | 28 | 27 | **129** | 19 |
| | | Westbound Through-Right | * | * | * | * | * | 309 | 172 | 537 | 261 |
| | | Westbound Left-Through-Right | >500 | 153 | 92 | 139 | 125 | * | * | * | * |
| | | Northbound Left | * | 58 | 56 | 69 | 55 | 130 | 97 | 144 | **151** |
| | | Northbound Through-Right | * | 94 | 101 | 99 | 72 | 191 | 210 | 233 | 273 |
| | | Southbound Left | * | 65 | 60 | 47 | 64 | 158 | 171 | 147 | **281** |
| | | Southbound Through-Right | * | 81 | 77 | 98 | 68 | 163 | 154 | 175 | 285 |
| 2 | Minnewawa Avenue / Perrin Avenue | Eastbound Left | * | * | * | * | * | * | * | 36 | **42** |
| | | Eastbound Through | * | * | * | * | * | * | * | 47 | 76 |
| | | Eastbound Right | * | * | * | * | * | * | * | **83** | 41 |
| | | Eastbound Left-Through-Right | >500 | 22 | 11 | 21 | 11 | 22 | 8 | * | * |
| | | Westbound Left | * | * | * | * | * | * | * | 33 | **35** |
| | | Westbound Through-Right | * | * | * | * | * | * | * | 40 | 47 |
| | | Westbound Left-Through-Right | >500 | 19 | 23 | 71 | 51 | 70 | 79 | * | * |
| | | Northbound Left | * | * | * | * | * | * | * | 21 | **37** |
| | | Northbound Through-Right | * | * | * | * | * | * | * | 0 | 4 |
| | | Northbound Left-Through-Right | >500 | 0 | 0 | 8 | 7 | 0 | 0 | * | * |
| | | Southbound Left | * | * | * | * | * | * | * | **28** | 27 |
| | | Southbound Through-Right | * | * | * | * | * | * | * | 0 | 7 |
| | | Southbound Left-Through-Right | >500 | 0 | 0 | 91 | 35 | 61 | 89 | * | * |
| 3 | Clovis Avenue / Perrin Avenue | Eastbound Left-Right | * | * | * | * | * | * | * | 65 | 107 |
| | | Northbound Left-Through | * | * | * | * | * | * | * | 214 | 77 |
| | | Southbound Through-Right | * | * | * | * | * | * | * | 0 | 0 |

Note: * = Does not exist or is not projected to exist

## Table XI: Queuing Analysis (Continued)

| ID | Intersection | Existing Queue Storage Length (ft.) | | Existing | | Existing plus Project | | Near Term plus Project | | Cumulative Year 2046 plus Project | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | AM | PM | AM | PM | AM | PM | AM | PM |
| 4 | Clovis Avenue / Baron Avenue | Westbound Left | 100 | * | * | 8 | 32 | 193 | 133 | 216 | **231** |
| | | Westbound Right | >300 | * | * | 0 | 0 | 184 | 24 | 732 | 388 |
| | | Northbound Left | 140 | * | * | 16 | 12 | 29 | 21 | 77 | 64 |
| | | Northbound Through | * | * | * | 0 | 0 | 0 | 0 | 181 | 252 |
| | | Northbound Right | >300 | * | * | 0 | 0 | 0 | 13 | 84 | 105 |
| | | Southbound Left | * | * | * | * | * | * | * | 20 | **60** |
| | | Southbound Through | * | * | * | * | * | * | * | 1114 | 274 |
| | | Southbound Left-Through | * | * | * | 0 | 0 | 19 | 65 | * | * |
| 5 | Peach Avenue / Shepherd Avenue | Eastbound Left | 250 | 0 | 0 | 0 | 0 | 0 | 14 | 49 | **188** |
| | | Eastbound Through | >500 | 0 | 0 | 0 | 0 | 218 | 267 | 346 | 389 |
| | | Eastbound Through | >500 | 0 | 0 | 0 | 0 | 228 | 270 | 388 | 409 |
| | | Eastbound Right | 100 | 0 | 18 | 13 | 7 | 101 | 73 | **232** | 161 |
| | | Westbound Left | 250 | 68 | 52 | 61 | 50 | 139 | 163 | **412** | 109 |
| | | Westbound Through | >500 | 0 | 0 | 0 | 0 | 148 | 253 | 499 | 341 |
| | | Westbound Through | * | * | * | * | * | 166 | 270 | 407 | 359 |
| | | Westbound Right | * | * | * | * | * | * | * | **133** | 78 |
| | | Northbound Left | 220 | 36 | 60 | 41 | 71 | 72 | 85 | 58 | 116 |
| | | Northbound Through-Right | * | * | * | * | * | * | * | 175 | 233 |
| | | Northbound Right | >300 | 30 | 41 | 37 | 37 | 53 | 57 | * | * |
| | | Southbound Left | * | * | * | * | * | * | * | **156** | 37 |
| | | Southbound Through-Right | * | * | * | * | * | * | * | 237 | 109 |

Note: * = Does not exist or is not projected to exist

## Table XI: Queuing Analysis (Continued)

| ID | Intersection | Existing Queue Storage Length (ft.) | | Existing | | Existing plus Project | | Near Term plus Project | | Cumulative Year 2046 plus Project | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | AM | PM | AM | PM | AM | PM | AM | PM |
| 6 | Minnewawa Avenue / Shepherd Avenue | Eastbound Left | 240 | 35 | 39 | 55 | 68 | 85 | 179 | 93 | 192 |
| | | Eastbound Through | >500 | 113 | 138 | 101 | 143 | 305 | 359 | 362 | 435 |
| | | Eastbound Through | >500 | 134 | 161 | 123 | 164 | 340 | 358 | 379 | 467 |
| | | Eastbound Right | 50 | 61 | 100 | 76 | 100 | 158 | 143 | 190 | **193** |
| | | Westbound Left | 220 | 187 | 97 | 182 | 251 | 262 | 149 | 221 | 321 |
| | | Westbound Through | >500 | 499 | 333 | 322 | 441 | 303 | 305 | 325 | 432 |
| | | Westbound Through | * | * | * | * | * | * | * | 325 | 452 |
| | | Westbound Through-Right | * | * | * | * | * | 300 | 325 | * | * |
| | | Westbound Right | 190 | 275 | 181 | 199 | 156 | * | * | 149 | **391** |
| | | Northbound Left | 230 | 117 | 142 | 165 | 123 | 180 | 193 | 207 | **382** |
| | | Northbound Through | >500 | 115 | 131 | 155 | 128 | 186 | 220 | 179 | 479 |
| | | Northbound Right | >300 | 26 | 35 | 38 | 40 | 62 | 110 | 47 | 98 |
| | | Southbound Left | 260 | 125 | 138 | 89 | 64 | 139 | 176 | **282** | 199 |
| | | Southbound Through | >500 | 154 | 130 | 168 | 165 | 266 | 226 | 423 | 295 |
| | | Southbound Right | 15 | 42 | 37 | 41 | 41 | 46 | 146 | **239** | 148 |
| 7 | Clovis Avenue / Shepherd Avenue | Eastbound Dual Lefts | 250 | 42 | 44 | 55 | 45 | 122 | 253 | 142 | 303 |
| | | Eastbound Through | >500 | 99 | 154 | 161 | 188 | 293 | 375 | 353 | 511 |
| | | Eastbound Through | >500 | 96 | 126 | 119 | 174 | 258 | 352 | 354 | 484 |
| | | Eastbound Right | 50 | 74 | 91 | 88 | 86 | 101 | 103 | 137 | **141** |
| | | Westbound Dual Lefts | 250 | 72 | 61 | 67 | 42 | 146 | 98 | 181 | 179 |
| | | Westbound Through | >500 | 217 | 150 | 203 | 175 | 286 | 315 | 296 | 376 |
| | | Westbound Through | >500 | 195 | 134 | 192 | 138 | 286 | 313 | 302 | 416 |
| | | Westbound Right | 175 | 0 | 19 | 28 | 32 | 140 | 232 | 114 | **351** |
| | | Northbound Left | 230 | 219 | 271 | 109 | 171 | 179 | 263 | 186 | **325** |
| | | Northbound Through | >500 | 34 | 51 | 55 | 69 | 113 | 245 | 178 | 402 |
| | | Northbound Through | >500 | 12 | 33 | 38 | 25 | 116 | 272 | 176 | 397 |
| | | Northbound Right | 50 | 25 | 43 | 23 | 30 | 69 | 130 | 96 | **131** |
| | | Southbound Dual Left | 250 | 23 | 15 | 51 | 45 | 108 | 82 | 225 | 191 |
| | | Southbound Through | >500 | 51 | 28 | 63 | 28 | 170 | 122 | 342 | 233 |
| | | Southbound Through | >500 | 13 | 10 | 54 | 23 | 172 | 130 | 359 | 230 |
| | | Southbound Right | 100 | 24 | 25 | 42 | 17 | 83 | 71 | **250** | 138 |

Note: * = Does not exist or is not projected to exist

# Conclusions and Recommendations

Conclusions and recommendations regarding the proposed Project are presented below.

## *Existing Traffic Conditions*

- At present, the study intersection of Minnewawa Avenue at Behymer Avenue exceeds its LOS threshold during both peak periods. It is recommended that the following improvements be considered for implementation to improve the LOS at this intersection.
  - Minnewawa Avenue/ Behymer Avenue
    - Add a northbound left-turn lane;
    - Modify the northbound left-through-right lane to a through-right lane;
    - Add a southbound left-turn lane; and
    - Modify the southbound left-through-right lane to a through-right lane.
- At present, all study segments operate at an acceptable LOS during both peak periods.

## *Existing plus Project Traffic Conditions*

- JLB analyzed the location of the proposed access points relative to the existing local roads and driveways in the Project's vicinity. A review of the Project access points indicates that they are located at points that minimize traffic operational impacts to the existing roadway network.
- At buildout, the proposed Project is estimated to generate approximately 1,528 daily trips, 113 AM peak hour trips and 152 PM peak hour trips.
- Under this scenario, the study intersection of Minnewawa Avenue at Behymer Avenue is projected to exceed its LOS threshold during both peak periods. It is recommended that the following improvements be considered for implementation to improve the LOS at this intersection.
  - Minnewawa Avenue/ Behymer Avenue
    - Add a northbound left-turn lane;
    - Modify the northbound left-through-right lane to a through-right lane;
    - Add a southbound left-turn lane; and
    - Modify the southbound left-through-right lane to a through-right lane.
- Under this scenario, all study segments are projected to operate at an acceptable LOS during both peak periods.

## *Near Term plus Project Traffic Conditions*

- The total trip generation for the Near Term Projects is 114,510 weekday daily trips, 8,607 weekday AM peak hour trips and 11,147 weekday PM peak hour trips.
- Under this scenario, the study intersections of Minnewawa Avenue at Behymer Avenue, Peach Avenue at Shepherd Avenue and Minnewawa Avenue at Shepherd Avenue are projected to exceed their LOS thresholds during both peak periods. It is recommended that the following improvements be considered for implementation to improve the LOS at these intersections.

- Minnewawa Avenue/ Behymer Avenue
  - Add an eastbound left-turn lane;
  - Modify the eastbound left-through-right lane to a through-right lane;
  - Add a westbound left-turn lane;
  - Modify the westbound left-through-right lane to a through-right lane;
  - Add a northbound left-turn lane;
  - Modify the northbound left-through-right lane to a through-right lane;
  - Add a southbound left-turn lane;
  - Modify the southbound left-through-right lane to a through-right lane; and
  - Signalize the intersection with protective left-turn and pedestrian phasing.
- Peach Avenue / Shepherd Avenue
  - Add a second westbound through lane with a receiving lane west of Peach Avenue; and
  - Signalize the intersection with protective left-turn and pedestrian phasing.
- Minnewawa Avenue / Shepherd Avenue
  - Modify the westbound right-turn lane to a through-right lane with a receiving lane west of Minnewawa Avenue; and
  - Modify the traffic signal to accommodate the additional lane.

- Under this scenario, the study segments of Shepherd Avenue between Willow Avenue and Peach Avenue and Shepherd Avenue between Peach Avenue and Minnewawa Avenue are projected to exceed their LOS thresholds during one or both peak periods. It is recommended that the following improvements be considered for implementation to improve the LOS at these segments.
  - Shepherd Avenue between Willow Avenue and Peach Avenue
    - Add a second westbound through lane.
  - Shepherd Avenue between Peach Avenue and Minnewawa Avenue
    - Add a second westbound through lane.

### *Cumulative Year 2046 plus Project Traffic Conditions*

- Under this scenario, the study intersections of Minnewawa Avenue at Behymer Avenue, Minnewawa Avenue at Perrin Avenue, Clovis Avenue at Baron Avenue, Peach Avenue at Shepherd Avenue and Minnewawa Avenue at Shepherd Avenue are projected to exceed their LOS thresholds during one or both peak periods. It is recommended that the following improvements be considered for implementation to improve the LOS at these intersections.
  - Minnewawa Avenue/ Behymer Avenue
    - Add an eastbound left-turn lane;
    - Modify the eastbound left-through-right lane to a through-right lane;
    - Add a westbound left-turn lane;
    - Modify the westbound left-through-right lane to a through-right lane;
    - Add a northbound left-turn lane;
    - Modify the northbound left-through-right lane to a through-right lane;
    - Add a southbound left-turn lane;
    - Modify the southbound left-through-right lane to a through-right lane; and
    - Signalize the intersection with protective left-turn and pedestrian phasing.

- Minnewawa Avenue / Perrin Avenue
  - Add an eastbound left-turn lane;
  - Modify the eastbound left-through-right lane to a through lane;
  - Add an eastbound right-turn lane;
  - Add a westbound left-turn lane;
  - Modify the westbound left-through-right lane to a through-right lane;
  - Add a northbound left-turn lane;
  - Modify the northbound left-through-right lane to a through-right lane;
  - Add a southbound left-turn lane; and
  - Modify the southbound left-through-right lane to a though-right lane.
- Clovis Avenue / Baron Avenue
  - Add a southbound left-turn lane; and
  - Signalize the intersection with protective left-turn and pedestrian phasing.
- Peach Avenue / Shepherd Avenue
  - Modify the westbound through-right lane to a through lane;
  - Add a second westbound through lane with a receiving lane west of Peach Avenue;
  - Add a westbound right-turn lane; and
  - Signalize the intersection with protective left-turn and pedestrian phasing.
- Minnewawa Avenue / Shepherd Avenue
  - Add a westbound through lane with receiving lane west of Minnewawa Avenue; and
  - Modify the traffic signal to accommodate the additional lane.

- Under this scenario, the study segments of Shepherd Avenue between Willow Avenue and Peach Avenue and Shepherd Avenue between Peach Avenue and Minnewawa Avenue are projected to exceed their LOS thresholds during both peak periods. It is recommended that the following improvements be considered for implementation to improve the LOS at these segments.
  - Shepherd Avenue between Willow Avenue and Peach Avenue
    - Add a second westbound through lane.
  - Shepherd Avenue between Peach Avenue and Minnewawa Avenue
    - Add a second westbound through lane.

### *Queuing Analysis*

- It is recommended that the City consider left-turn and right-turn lane storage lengths as indicated in the Queuing Analysis.

# Study Participants

**JLB Traffic Engineering, Inc. Personnel:**

| | |
|---|---|
| Jose Luis Benavides, PE, TE | Project Manager |
| Matthew Arndt, EIT | Engineer I/II |
| Christian Sanchez, EIT | Engineer I/II |
| Adrian Benavides | Engineering Aide |
| Carlos Topete | Engineering Aide |
| Arjun Dhillon | Engineering Aide |
| Dennis Wynn | Sr. Engineering Technician |

**Persons Consulted:**

| | |
|---|---|
| Trent Walker | Bonadelle Neighborhoods |
| John A. Bonadelle | Bonadelle Neighborhoods |
| Sean Smith, PE | City of Clovis |
| Christopher Kelly | City of Clovis |
| Hector Luna | County of Fresno |
| David Padilla | Caltrans, D6 |
| Mike Aronson, PE | Kittelson & Associates |

# References

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Institute of Transportation Engineers. 2017. "Trip Generation Manual". Washington: Institute of Transportation Engineers.

National Academies of Sciences, Engineering, and Medicine. 2022. “Highway Capacity Manual 7th Edition: A Guide for Multimodal Mobility Analysis” Washington: The National Academies Press.

Transportation Research Board. 2016. "Highway Capacity Manual". Washington: The National Academy of Sciences.

# Appendix A: Scope of Work

October 11, 2023

Sean Smith, RCE, QSD
Associate Engineer
City of Clovis
1033 Fifth Street
Clovis, CA 93612

Via Email Only: seans@cityofclovis.com

***Subject:*** ***Proposed Scope of Work for the Preparation of a Traffic Impact Analysis and Vehicle Miles Traveled Analysis for the Single-Family Residential Project in the City of Clovis (JLB Project 006-049)***

Dear Mr. Smith,

**JLB Traffic Engineering, Inc. (JLB)** hereby submits this Draft Scope of Work for the preparation of a **Traffic Impact Analysis (TIA)** and **Vehicle Miles Traveled (VMT) Analysis** for Single-Family Residential **(Project)** located on the southwest corner of Clovis Avenue and Perrin Avenue in the City of Clovis. The project will include approximately 162 single family residential units. Based on information provided to JLB, the Project is consistent with the City of Clovis General Plan. An aerial of the Project Vicinity and Project Site Plan are shown in Exhibits A and B, respectively.

The purpose of the TIA and VMT analysis are to evaluate the potential on-site and off-site traffic impacts, identify roadway and circulation needs, determine potential mitigation measures and identify any critical traffic issues that should be addressed in the on-going planning process. JLB proposes the following Scope of Work to evaluate the on-site and off-site traffic impacts of the proposed Project.

## *Scope of Work*

- JLB will obtain recent or schedule and conduct new traffic counts at the study facility(ies) as necessary. These counts will include pedestrians and vehicles.
- JLB will request a Fresno Council of Governments (Fresno COG) traffic forecast model run for the Project (Select Zone Analysis) which will include the Project and the streets to be analyzed. The Fresno COG traffic forecasting model will be used to forecast traffic volumes for the Base Year 2023 and Cumulative Year 2046 scenarios.
- JLB will perform a site visit to observe existing traffic conditions, especially during the AM and PM peak hours. Existing roadway conditions, including intersection geometrics and traffic controls will be verified.
- JLB will evaluate on-site circulation and provide recommendations as necessary to improve circulation to and within the Project site.
- JLB will prepare CA MUTCD Warrant 3 “Peak Hour” for unsignalized study intersections under all study scenarios.
- JLB will qualitatively analyze existing and planned transit routes in the vicinity of the Project.

- JLB will qualitatively analyze existing and planned bikeways in the vicinity of the Project.
- JLB will forecast trip distribution based on turn count information, knowledge of the existing and planned circulation network in the vicinity of the Project, and the Fresno COG Activity Based Model (ABM).
- JLB will evaluate existing and forecasted levels of service (LOS) at the study intersection(s). JLB will use HCM 6th or HCM 2000 methodologies (as appropriate) within Synchro to perform this analysis for the AM and PM peak hours. JLB will identify the causes of poor LOS.

### *Study Scenarios*

1. Existing Traffic Conditions with needed improvements (if any);
2. Existing plus Project Traffic Conditions with proposed improvement measures (if any);
3. Near Term plus Project Traffic Conditions with proposed improvement measures (if any); and
4. Cumulative Year 2046 plus Project Traffic Conditions with proposed improvement measures (if any).

### *Weekday peak hours to be analyzed (Tuesday, Wednesday, or Thursday only)*

1. 7 - 9 AM peak hour
2. 4 - 6 PM peak hour

**Study Intersections**

1. Perrin Avenue / Minnewawa Avenue
2. Perrin Avenue / Clovis Avenue
3. Baron Avenue / Clovis Avenue
4. Shepherd Avenue / Minnewawa Avenue
5. Shepherd Avenue / Clovis Avenue

Queuing analysis is included in the proposed Scope of Work for the study intersection(s) listed above under all study scenarios. This analysis will be utilized to recommend minimum storage lengths for left-turn and right-turn lanes at all study intersections.

### *Study Segments*

1. None

### *Project Only Trip Assignment to the following State facilities*

1. None

### *Trip Generation*

The trip generation rates for the proposed Project were obtained from the 11th Edition of the Trip Generation Manual published by the Institute of Transportation Engineers (ITE). Table I presents the trip generation rates for the proposed Project with trip generation rates for Single-Family Detached Housing (210). At buildout, the Project is estimated to generate approximately 1,528 daily trips, 113 AM peak hour trips and 152 PM peak hour trips.

***Table I: Project Trip Generation***

| Land Use (ITE Code) | Size | Unit | Daily | | AM Peak Hour | | | | | | PM Peak Hour | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Rate | Total | Trip Rate | In % | Out % | In | Out | Total | Trip Rate | In % | Out % | In | Out | Total |
| Single-Family Detached Housing (210) | 162 | d.u. | 9.43 | 1,528 | 0.70 | 26 | 74 | 29 | 84 | 113 | 0.94 | 63 | 37 | 96 | 56 | 152 |
| ***Total Driveway Trips*** | | | | **1,528** | | | | **29** | **84** | **113** | | | | **96** | **56** | **152** |

## *Near Term Projects to be Included*

Based on our local knowledge of the study area and consultation with City of Clovis Planning & Development staff, JLB proposes to include near term projects in the vicinity of the proposed Project under the Near Term plus Project scenario. The near term projects proposed to be included in the Near Term scenario are:

| Project Name | General Location |
|---|---|
| 1. CCMC | NEC Temperance Ave and Herndon Ave |
| 2. Harlan Ranch | NEC DeWolf Ave and Owens Mountain Pkwy |
| 3. R&T Park | Temperance Ave and Alluvial Ave |
| 4. Tract 6050 | NWC Clovis Ave and Shepherd Ave |
| 5. Tract 6109 | SEC Temperance Ave and Powers Ave |
| 6. Tract 6200 | NEC Clovis Ave and Shepherd Ave |
| 7. Tract 6264 | NEC Locan Ave and Teague Ave |
| 8. Tract 6284 | SWQ Fowler Ave and Teague Ave |
| 9. Tract 6332 | NEQ Locan Ave and Teague Ave |
| 10. Tract 6389 | NEQ Locan Ave and Teague Ave |

The Scope of Work is based on our understanding of this Project and our experience with similar TIAs. JLB hereby requests written comments (letter or email) to the above scope of work preferably by November 3, 2023. In the absence of comments by November 3, 2023, it will be assumed that the Scope of Work is acceptable to the agency(ies) that have not submitted any comments. If you have any questions, require additional information, or need additional time to review the above Draft Scope of Work please contact me by phone at (559) 317-6243, or via email at marndt@JLBtraffic.com.

Sincerely,

Matthew Arndt
Engineer I/II

cc:
Hector Luna, County of Fresno
Harmanjit Dhaliwal, City of Fresno
David Padilla, Caltrans
Jose Benavides, JLB Traffic Engineering, Inc.

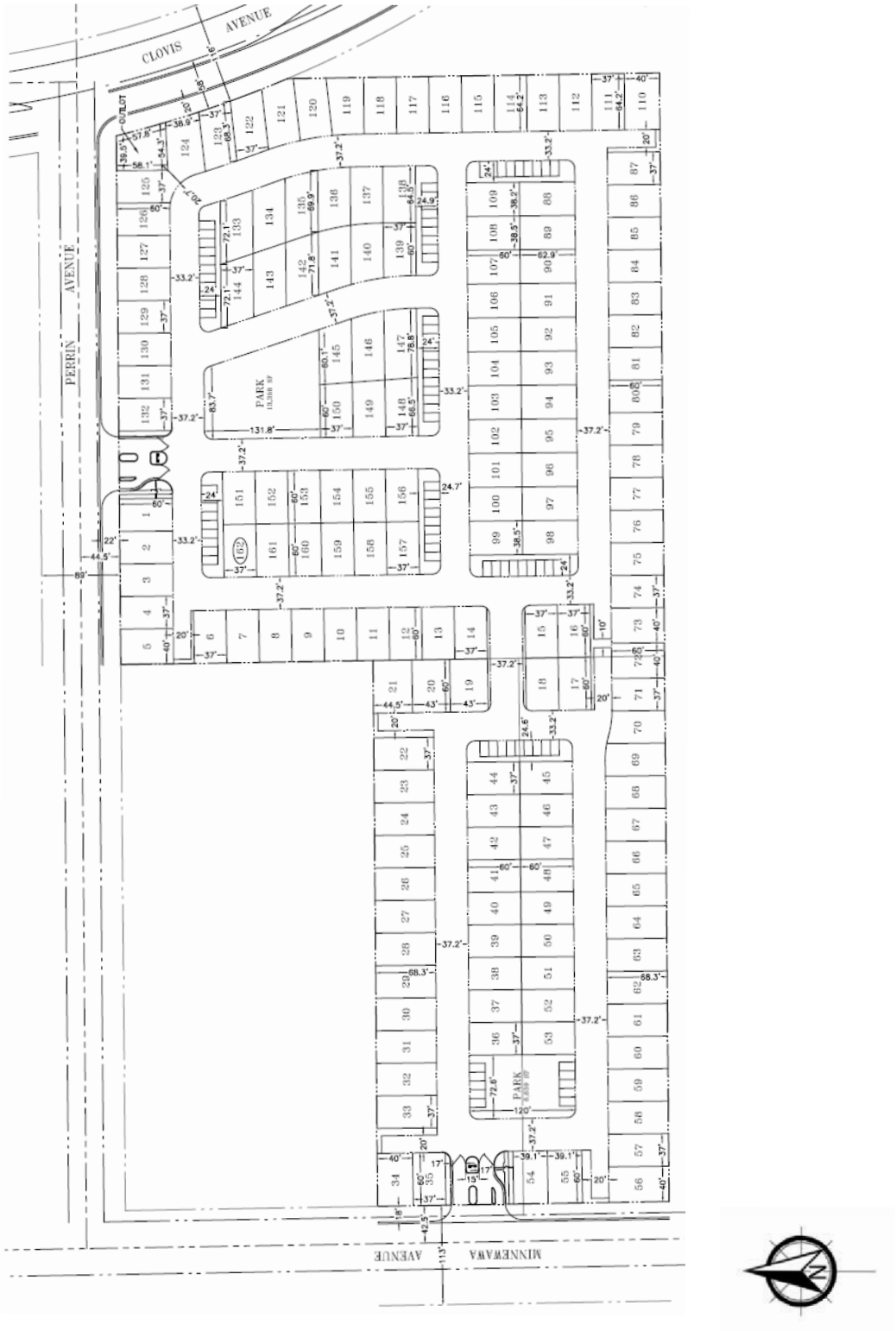


JLB TRAFFIC ENGINEERING, INC.
www.JLBtraffic.com
info@JLBtraffic.com
516 W. Shaw Ave., Ste. 103
Fresno, CA 93704
(559) 570-8991

# Exhibit A – Project Vicinity



# Exhibit B – Project Site Plan



## Matt Arndt

**From:** Padilla, Dave@DOT <dave.padilla@dot.ca.gov>
**Sent:** Wednesday, October 11, 2023 4:35 PM
**To:** Matt Arndt; Sean Smith
**Cc:** Luna, Hector; Harmanjit Dhaliwal; Jose Benavides; Xiong, Christopher@DOT
**Subject:** RE: Clovis Perrin Residential TIA Draft Scope of Work

Hello Ma. ,

We are satisfied with the TIA SOW. Please route the TIA once completed for our review.

Christopher: When you have an opportunity, please upload the project to GTS for our records.

Thank you,

David Padilla, Branch Chief
Caltrans Transportation Planning
(559) 905-9371

---

**From:** Matt Arndt <marndt@jlbtraffic.com>
**Sent:** Wednesday, October 11, 2023 8:45 AM
**To:** Sean Smith <SeanS@ci.clovis.ca.us>
**Cc:** Luna, Hector <HLuna@fresnocountyca.gov>; Harmanjit Dhaliwal <Harmanjit.Dhaliwal@fresno.gov>; Padilla, Dave@DOT <dave.padilla@dot.ca.gov>; Jose Benavides <jbenavides@jlbtraffic.com>
**Subject:** Clovis Perrin Residential TIA Draft Scope of Work

**EXTERNAL EMAIL.** Links/attachments may not be safe.

Hello,

Attached is the Draft Scope of Work for the preparation of a Traffic Impact Analysis for a residential subdivision on the southwest corner of Clovis Avenue and Perrin Avenue in the City of Clovis.

We kindly ask that you take a moment to review and comment on the proposed Draft Scope of Work. If you have any questions or require additional information, please contact me by phone at (559) 317-6243 or by responding to this email. We appreciate your time and attention to this matter and look forward to hearing from you soon.

Sincerely,

Matthew Arndt

JLB TRAFFIC ENGINEERING

*Traffic Engineering, Transportation Planning and Parking Solutions*
**Certified Disadvantaged Business Enterprise (DBE) and Small Business Enterprise (SBE)**

## Matt Arndt

**From:** Jose Benavides
**Sent:** Tuesday, January 23, 2024 1:50 PM
**To:** Luna, Hector
**Cc:** Harmanjit Dhaliwal; Padilla, Dave@DOT; Matt Arndt; Sean Smith
**Subject:** RE: Clovis Perrin Residential TIA Draft Scope of Work

Good afternoon Hector,

Via this email I would like to summarize our conversation related to the scope of work for the Clovis Perrin Residential Development Project. If I misinterpreted anything please let us know.

Based on our conversation the County of Fresno has agreed that analysis of the two intersections and three segments is no longer necessary. The instructions to be removed from the scope of work are 1) Minnewawa Avenue at Behymer Avenue, and Willow Avenue at Shepherd Avenue. The segments to be removed from the scope of work are 1) Behymer Avenue between Willow and Peach, 2) Behymer Avenue between Peach and Minnewawa, and 3) Shepherd Avenue between Minnewawa and DeWitt. As such the following list of intersections and segments are to be included in the final scope of work at the request of the County:

Intersections:

- Behymer Avenue and Willow Avenue

Segments:

- Minnewawa Avenue: Shepherd Avenue to Perrin Avenue
- Minnewawa Avenue: Perrin Avenue to Behymer Avenue
- Behymer Avenue: Peach Avenue to Minnewawa Avenue
- Shepherd Avenue: Peach Avenue to Minnewawa Avenue

Sincerely,

Jose Luis Benavides, P.E., T.E.
President

JLB TRAFFIC ENGINEERING, INC.

*Traffic Engineering, Transportation Planning and Parking Solutions*
**Certified Disadvantaged Business Enterprise (DBE) and Small Business Enterprise (SBE)**

516 W. Shaw Ave., Ste. 103
Fresno, CA 93704
Direct: (559) 317-6249
Main: (559) 570-8991
Cell: (559) 694-6000
Fax: (559) 317-6854
www.JLBtraffic.com

## Matt Arndt

**From:** Luna, Hector <HLuna@fresnocountyca.gov>
**Sent:** Thursday, October 12, 2023 8:45 AM
**To:** Matt Arndt; Sean Smith
**Cc:** Harmanjit Dhaliwal; Padilla, Dave@DOT; Jose Benavides
**Subject:** RE: Clovis Perrin Residential TIA Draft Scope of Work

Good morning Ma. ,

The County requests the following intersections and segments be analyzed:

Intersections:

- Behymer Avenue and Minnewawa Avenue
- Behymer Avenue and Willow Avenue
- Willow Avenue and Shepherd Avenue

Segments:

- Minnewawa Avenue: Shepherd Avenue to Perrin Avenue
- Minnewawa Avenue: Perrin Avenue to Behymer Avenue
- Behymer Avenue: Willow Avenue to Minnewawa Avenue
- Shepherd Avenue: Willow Avenue to Peach Avenue
- Shepherd Avenue: Peach Avenue to Minnewawa Avenue
- Shepherd Avenue: Minnewawa to Dewitt Avenue

Please route the TIA once completed for our review, thank you for the opportunity for the review of the Scope of Work.

Regards,

**Hector E. Luna** | **Senior Planner**
**Department of Public Works and Planning |**
**Water and Natural Resources Division |**
**Transportation Planning Unit**
2220 Tulare St. 6th Floor Fresno, CA 93721
Main Office: (559) 600-4292 | Direct: (559) 600-9672
Email: hluna@FresnoCountyCa.gov
Your input matters! Customer Service Survey

---

**From:** Matt Arndt <marndt@jlbtraffic.com>
**Sent:** Wednesday, October 11, 2023 8:45 AM
**To:** Sean Smith <SeanS@ci.clovis.ca.us>
**Cc:** Luna, Hector <HLuna@fresnocountyca.gov>; Harmanjit Dhaliwal <Harmanjit.Dhaliwal@fresno.gov>; Padilla, Dave@DOT <dave.padilla@dot.ca.gov>; Jose Benavides <jbenavides@jlbtraffic.com>
**Subject:** Clovis Perrin Residential TIA Draft Scope of Work

**CAUTION!!! - EXTERNAL EMAIL - THINK BEFORE YOU CLICK**

Hello,

Attached is the Draft Scope of Work for the preparation of a Traffic Impact Analysis for a residential s
southwest corner of Clovis Avenue and Perrin Avenue in the City of Clovis.

We kindly ask that you take a moment to review and comment on the proposed Draft Scope of Work. If you have any questions or require additional information, please contact me by phone at (559) 317-6243 or by responding to this email. We appreciate your time and attention to this matter and look forward to hearing from you soon.

Sincerely,

Matthew Arndt

JLB TRAFFIC ENGINEERING

*Traffic Engineering, Transportation Planning and Parking Solutions*
**Certified Disadvantaged Business Enterprise (DBE) and Small Business Enterprise (SBE)**

516 W. Shaw Ave., Ste. 103
Fresno, CA 93704
Office: (559) 570-8991
Direct: (559) 317-6243
Cell: (559) 360-1886
www.JLBtraffic.com

## Matt Arndt

**From:** Sean Smith <SeanS@ci.clovis.ca.us>
**Sent:** Thursday, February 1, 2024 5:13 PM
**To:** Matt Arndt; Jose Benavides
**Cc:** Jeff Brown; Ruben Amavizca; Christopher Kelly; Tara West
**Subject:** RE: [External] Clovis Perrin Residential TIA Draft Scope of Work

Jose,
Thank you for the Teams meeting today. We talked about the project's anticipated trip distribution and timing. Based on the projected low trip count, the City of Clovis is agreeable to removing the following intersections from the scope of the study:

1. Willow-Behymer
2. Willow-International
3. Minnewawa-International

Please feel free to contact me or other Engineering staff with any questions.

*Check https://cityofclovis.com/planning-and-development/engineering/resources-4/ for project status updates and other references.*
*The front counter is open 8am to 4:30pm; staff is otherwise available by appointment, email or phone.*

**Sean K. Smith PE QSD | Supervising Civil Engineer**
City of Clovis | Engineering Division
**Development Review**
1033 Fifth Street, Clovis, CA 93612
p. 559.324.2363 | f. 559-324-2843 | m. 559-765-7505
seans@cityofclovis.com

cc: project file

---

**From:** Sean Smith
**Sent:** Monday, October 16, 2023 12:09 PM
**To:** Matt Arndt <marndt@jlbtraffic.com>
**Cc:** Luna, Hector <HLuna@fresnocountyca.gov>; Harmanjit Dhaliwal <Harmanjit.Dhaliwal@fresno.gov>; Padilla, Dave@DOT <dave.padilla@dot.ca.gov>; Jose Benavides <jbenavides@jlbtraffic.com>; Gene Abella <genea@ci.clovis.ca.us>; Jeff Brown <JBrown@ci.clovis.ca.us>; Ruben Amavizca <rubena@ci.clovis.ca.us>
**Subject:** RE: [External] Clovis Perrin Residential TIA Draft Scope of Work

Matt
The City has three (3) additional intersections to consider and three (3) additional projects to add to the Near Term list. The intersections are also in addition to the 3 that the County included by way of email from Hector Luna.

Intersections:

1. Minnewawa-International (due to school traffic)
2. Willow-International (due to school traffic)
3. Peach-Shepherd (due to increase to east-west trips with a potential to increase the delay for N/b Peach)

Additional Near Term Projects:

1. TM6343 (Wilson)
2. TM6205 (Wilson)
3. Commercial + MFR at SEC Willow-Shepherd (Ricchuitti)

Thank you for the work and collaboration on this project. Please feel free to contact me or other Engineering staff with any questions or additional issues that you'd like us to consider.

*Check https://cityofclovis.com/planning-and-development/engineering/resources-4/ for project status updates and other references.*
*The front counter is open 8am to 4:30pm; staff is otherwise available by appointment, email or phone.*

**Sean K. Smith PE QSD | Supervising Civil Engineer**
City of Clovis | Engineering Division
**Development Review**
1033 Fifth Street, Clovis, CA 93612
p. 559.324.2363 | f. 559-324-2843 | m. 559-765-7505
seans@cityofclovis.com

cc: project file

---

**From:** Sean Smith <SeanS@ci.clovis.ca.us>
**Sent:** Wednesday, October 11, 2023 1:50 PM
**To:** Matt Arndt <marndt@jlbtraffic.com>
**Cc:** Luna, Hector <HLuna@fresnocountyca.gov>; Harmanjit Dhaliwal <Harmanjit.Dhaliwal@fresno.gov>; Padilla, Dave@DOT <dave.padilla@dot.ca.gov>; Jose Benavides <jbenavides@jlbtraffic.com>
**Subject:** Re: [External] Clovis Perrin Residential TIA Draft Scope of Work

Received, we will review and respond.

Thank you,

Sean Smith PE QSD
DRU Manager, City of Clovis

---

**From:** Matt Arndt <marndt@jlbtraffic.com>
**Sent:** Wednesday, October 11, 2023 8:45:16 AM
**To:** Sean Smith <SeanS@ci.clovis.ca.us>
**Cc:** Luna, Hector <HLuna@fresnocountyca.gov>; Harmanjit Dhaliwal <Harmanjit.Dhaliwal@fresno.gov>; Padilla, Dave@DOT <dave.padilla@dot.ca.gov>; Jose Benavides <jbenavides@jlbtraffic.com>
**Subject:** [External] Clovis Perrin Residential TIA Draft Scope of Work

Hello,

Attached is the Draft Scope of Work for the preparation of a Traffic Impact Analysis for a residential subdivision on the southwest corner of Clovis Avenue and Perrin Avenue in the City of Clovis.

We kindly ask that you take a moment to review and comment on the proposed Draft Scope of Work. If you have any questions or require additional information, please contact me by phone at (559) 317-6243 or by responding to this email. We appreciate your time and attention to this matter and look forward to hearing from you soon.

Sincerely,

Matthew Arndt

*Traffic Engineering, Transportation Planning and Parking Solutions*
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516 W. Shaw Ave., Ste. 103
Fresno, CA 93704
Office: (559) 570-8991
Direct: (559) 317-6243
Cell: (559) 360-1886
https://link.edgepilot.com/s/c5a6fb34/up3NtZ0wQEmVIVaQ7riLqQ?u=http://www.jlbtraffic.com/

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## Matt Arndt

**From:** Harmanjit Dhaliwal <Harmanjit.Dhaliwal@fresno.gov>
**Sent:** Wednesday, October 11, 2023 4:46 PM
**To:** Matt Arndt; Sean Smith
**Cc:** Luna, Hector; Padilla, Dave@DOT; Jose Benavides; Jill Gormley; Scott Tyler
**Subject:** RE: Clovis Perrin Residential TIA Draft Scope of Work
**Attachments:** L20231011 Clovis Perrin TIA Draft Scope of Work.pdf

Good A. ernoon Matt/Sean,

Thank you for the opportunity for the review of the Scope of Work. The City of Fresno will not need to review the Traffic Impact Analysis for the subject project. You will need to confirm with our Planning Department on the VMT Analysis.

Thanks,

***Harmanjit Dhaliwal, PE***
Licensed Engineer Manager
Land Planning & Subdivision Inspection Section, Public Works Department
2600 Fresno Street, Room 4064
Fresno, CA 93721-3623
Direct: (559) 621-8694
Main: (559) 621-8800
www.fresno.gov
***Building a Better Fresno***




**From:** Matt Arndt <marndt@jlbtraffic.com>
**Sent:** Wednesday, October 11, 2023 8:45 AM
**To:** Sean Smith <SeanS@ci.clovis.ca.us>
**Cc:** Luna, Hector <HLuna@fresnocountyca.gov>; Harmanjit Dhaliwal <Harmanjit.Dhaliwal@fresno.gov>; Padilla, Dave@DOT <dave.padilla@dot.ca.gov>; Jose Benavides <jbenavides@jlbtraffic.com>
**Subject:** Clovis Perrin Residential TIA Draft Scope of Work

**External Email:** Use caution with links and attachments

Hello,

Attached is the Draft Scope of Work for the preparation of a Traffic Impact Analysis for a residential subdivision on the southwest corner of Clovis Avenue and Perrin Avenue in the City of Clovis.

We kindly ask that you take a moment to review and comment on the proposed Draft Scope of Work questions or require additional information, please contact me by phone at (559) 317-6243 or by responding to this email. We appreciate your time and attention to this matter and look forward to hearing from you soon.

Sincerely,

Matthew Arndt

JLB TRAFFIC ENGINEERING

*Traffic Engineering, Transportation Planning and Parking Solutions*
**Certified Disadvantaged Business Enterprise (DBE) and Small Business Enterprise (SBE)**

516 W. Shaw Ave., Ste. 103
Fresno, CA 93704
Office: (559) 570-8991
Direct: (559) 317-6243
Cell: (559) 360-1886
www.JLBtraffic.com

# Appendix B: Traffic Counts

**Metro Traffic Data Inc.**
310 N. Irwin Street - Suite 20
Hanford, CA 93230

800-975-6938 Phone/Fax
www.metrotrafficdata.com

# Turning Movement Report

Prepared For:

**JLB Traffic Engineering, Inc.**
516 W. Shaw Ave, Suite 103
Fresno, CA 93704

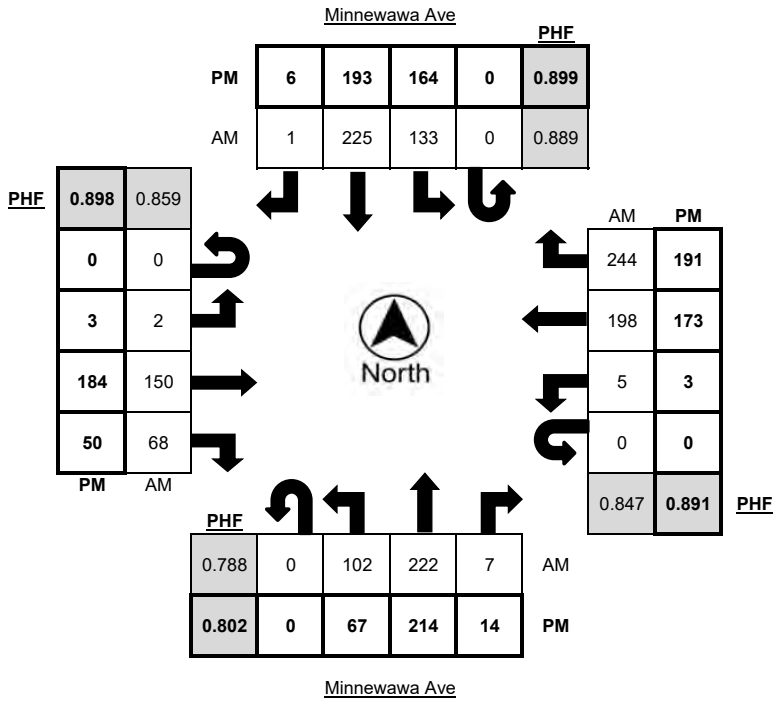
**LOCATION** Minnewawa Ave @ Behymer Ave
**LATITUDE** 36.8812
**COUNTY** Fresno
**LONGITUDE** -119.7112
**COLLECTION DATE** Thursday, September 14, 2023
**WEATHER** Clear

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks |
| 7:00 AM - 7:15 AM | 0 | 2 | 33 | 1 | 2 | 0 | 26 | 36 | 0 | 2 | 0 | 0 | 26 | 9 | 0 | 0 | 3 | 32 | 45 | 1 |
| 7:15 AM - 7:30 AM | 0 | 9 | 40 | 2 | 1 | 0 | 36 | 39 | 0 | 1 | 0 | 0 | 27 | 9 | 1 | 0 | 3 | 46 | 44 | 3 |
| 7:30 AM - 7:45 AM | 0 | 33 | 42 | 1 | 2 | 0 | 35 | 48 | 0 | 2 | 0 | 0 | 37 | 10 | 1 | 0 | 3 | 72 | 48 | 1 |
| 7:45 AM - 8:00 AM | 0 | 28 | 47 | 1 | 2 | 0 | 25 | 51 | 0 | 0 | 0 | 2 | 36 | 26 | 1 | 0 | 2 | 54 | 76 | 5 |
| 8:00 AM - 8:15 AM | 0 | 14 | 59 | 1 | 2 | 0 | 33 | 68 | 0 | 3 | 0 | 0 | 36 | 16 | 2 | 0 | 0 | 34 | 68 | 3 |
| 8:15 AM - 8:30 AM | 0 | 27 | 74 | 4 | 3 | 0 | 40 | 58 | 1 | 3 | 0 | 0 | 41 | 16 | 1 | 0 | 0 | 38 | 52 | 1 |
| 8:30 AM - 8:45 AM | 0 | 8 | 44 | 3 | 3 | 0 | 36 | 52 | 1 | 3 | 0 | 2 | 24 | 16 | 4 | 0 | 1 | 32 | 41 | 4 |
| 8:45 AM - 9:00 AM | 0 | 9 | 42 | 2 | 2 | 0 | 22 | 36 | 0 | 3 | 0 | 1 | 15 | 11 | 0 | 0 | 4 | 43 | 36 | 3 |
| **TOTAL** | **0** | **130** | **381** | **15** | **17** | **0** | **253** | **388** | **2** | **17** | **0** | **5** | **242** | **113** | **10** | **0** | **16** | **351** | **410** | **21** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks |
| 4:00 PM - 4:15 PM | 0 | 16 | 55 | 2 | 0 | 0 | 26 | 45 | 0 | 0 | 0 | 0 | 46 | 14 | 0 | 0 | 0 | 35 | 30 | 2 |
| 4:15 PM - 4:30 PM | 0 | 11 | 49 | 2 | 1 | 0 | 34 | 52 | 1 | 2 | 0 | 4 | 25 | 6 | 1 | 0 | 3 | 37 | 32 | 1 |
| 4:30 PM - 4:45 PM | 0 | 14 | 57 | 1 | 1 | 0 | 37 | 36 | 0 | 2 | 0 | 0 | 40 | 10 | 0 | 0 | 0 | 22 | 39 | 0 |
| 4:45 PM - 5:00 PM | 0 | 10 | 56 | 3 | 0 | 0 | 39 | 59 | 0 | 1 | 0 | 2 | 26 | 1 | 0 | 0 | 1 | 38 | 39 | 1 |
| 5:00 PM - 5:15 PM | 0 | 11 | 51 | 1 | 0 | 0 | 38 | 40 | 3 | 2 | 0 | 0 | 39 | 11 | 0 | 0 | 1 | 41 | 56 | 0 |
| 5:15 PM - 5:30 PM | 0 | 27 | 59 | 6 | 0 | 0 | 40 | 61 | 0 | 2 | 0 | 0 | 56 | 10 | 0 | 0 | 1 | 47 | 55 | 0 |
| 5:30 PM - 5:45 PM | 0 | 20 | 61 | 4 | 1 | 0 | 45 | 43 | 1 | 0 | 0 | 2 | 55 | 7 | 1 | 0 | 1 | 42 | 46 | 0 |
| 5:45 PM - 6:00 PM | 0 | 9 | 43 | 3 | 0 | 0 | 41 | 49 | 2 | 1 | 0 | 1 | 34 | 22 | 1 | 0 | 0 | 43 | 34 | 0 |
| **TOTAL** | **0** | **118** | **431** | **22** | **3** | **0** | **300** | **385** | **7** | **10** | **0** | **9** | **321** | **81** | **3** | **0** | **7** | **305** | **331** | **4** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks | U-Turn | Left | Thru | Right | Trucks |
| 7:30 AM - 8:30 AM | 0 | 102 | 222 | 7 | 9 | 0 | 133 | 225 | 1 | 8 | 0 | 2 | 150 | 68 | 5 | 0 | 5 | 198 | 244 | 10 |
| 5:00 PM - 6:00 PM | 0 | 67 | 214 | 14 | 1 | 0 | 164 | 193 | 6 | 5 | 0 | 3 | 184 | 50 | 2 | 0 | 3 | 173 | 191 | 0 |

| | PHF | Trucks |
|---|---|---|
| AM | 0.967 | 2.4% |
| PM | 0.872 | 0.6% |



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# Turning Movement Report

Prepared For:

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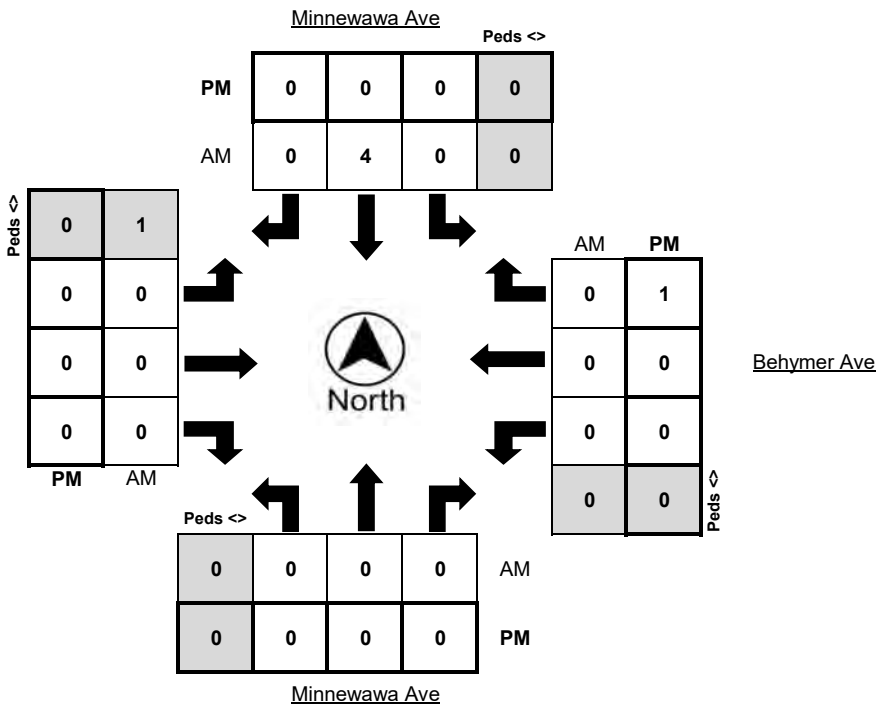
**LOCATION** Minnewawa Ave @ Behymer Ave
**LATITUDE** 36.8812
**COUNTY** Fresno
**LONGITUDE** -119.7112
**COLLECTION DATE** Thursday, September 14, 2023
**WEATHER** Clear

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:00 AM - 7:15 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM - 7:30 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM - 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM - 8:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:00 AM - 8:15 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM - 8:30 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM - 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM - 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL** | **0** | **1** | **0** | **0** | **0** | **6** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **1** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 4:00 PM - 4:15 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM - 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM - 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM - 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM - 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM - 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM - 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 5:45 PM - 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL** | **0** | **1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **1** | **0** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:30 AM - 8:30 AM | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00 PM - 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |

| | Bikes | Peds |
|---|---|---|
| AM Peak Total | 4 | 1 |
| PM Peak Total | 1 | 0 |



# JLB Traffic Engineering, Inc.

516 West Shaw Avenue, Suite 103
Fresno, CA, 93704
*Traffic Engineering, Transportation, & Parking Solutions*
*www.JLBtraffic.com*


File Name : Minnewawa at Perrin
Site Code : 00000000
Start Date : 2/14/2024
Page No : 1

Groups Printed- Unshifted

| | MINNEWAWA From North | | | | PERRIN From East | | | | MINNEWAWA From South | | | | PERRIN From West | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Int. Total |
| 07:00 AM | 0 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | 3 | 0 | 2 | 0 | 2 | 0 | 97 |
| 07:15 AM | 0 | 69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 0 | 0 | 0 | 1 | 1 | 0 | 141 |
| 07:30 AM | 0 | 63 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 71 | 1 | 0 | 0 | 0 | 0 | 0 | 136 |
| 07:45 AM | 0 | 87 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 88 | 2 | 0 | 2 | 0 | 0 | 0 | 183 |
| Total | 0 | 267 | 0 | 0 | 2 | 0 | 1 | 0 | 2 | 271 | 6 | 0 | 4 | 1 | 3 | 0 | 557 |
| 08:00 AM | 0 | 81 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 87 | 0 | 0 | 2 | 0 | 0 | 0 | 172 |
| 08:15 AM | 1 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 101 | 2 | 0 | 1 | 0 | 0 | 0 | 189 |
| 08:30 AM | 0 | 71 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 88 | 1 | 0 | 2 | 0 | 1 | 0 | 164 |
| 08:45 AM | 0 | 53 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 67 | 0 | 0 | 1 | 0 | 0 | 0 | 123 |
| Total | 1 | 287 | 2 | 0 | 0 | 0 | 1 | 0 | 4 | 343 | 3 | 0 | 6 | 0 | 1 | 0 | 648 |
| *** BREAK *** | | | | | | | | | | | | | | | | | |
| 04:00 PM | 0 | 56 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 102 | 0 | 0 | 0 | 0 | 0 | 0 | 163 |
| 04:15 PM | 0 | 79 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 104 | 1 | 0 | 1 | 0 | 0 | 0 | 188 |
| 04:30 PM | 0 | 53 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 77 | 0 | 0 | 0 | 0 | 0 | 0 | 132 |
| 04:45 PM | 0 | 76 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 86 | 1 | 0 | 0 | 0 | 0 | 0 | 164 |
| Total | 0 | 264 | 1 | 0 | 3 | 0 | 5 | 0 | 2 | 369 | 2 | 0 | 1 | 0 | 0 | 0 | 647 |
| 05:00 PM | 0 | 54 | 0 | 0 | 1 | 1 | 1 | 0 | 4 | 98 | 0 | 0 | 1 | 0 | 1 | 0 | 161 |
| 05:15 PM | 0 | 76 | 1 | 0 | 0 | 0 | 5 | 0 | 0 | 118 | 1 | 0 | 0 | 0 | 0 | 0 | 201 |
| 05:30 PM | 0 | 62 | 0 | 0 | 1 | 0 | 2 | 0 | 2 | 115 | 0 | 0 | 0 | 0 | 0 | 0 | 182 |
| 05:45 PM | 0 | 46 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 91 | 0 | 0 | 0 | 0 | 0 | 0 | 142 |
| Total | 0 | 238 | 3 | 0 | 2 | 1 | 10 | 0 | 7 | 422 | 1 | 0 | 1 | 0 | 1 | 0 | 686 |
| Grand Total | 1 | 1056 | 6 | 0 | 7 | 1 | 17 | 0 | 15 | 1405 | 12 | 0 | 12 | 1 | 5 | 0 | 2538 |
| Apprch % | 0.1 | 99.3 | 0.6 | 0 | 28 | 4 | 68 | 0 | 1 | 98.1 | 0.8 | 0 | 66.7 | 5.6 | 27.8 | 0 | |
| Total % | 0 | 41.6 | 0.2 | 0 | 0.3 | 0 | 0.7 | 0 | 0.6 | 55.4 | 0.5 | 0 | 0.5 | 0 | 0.2 | 0 | |

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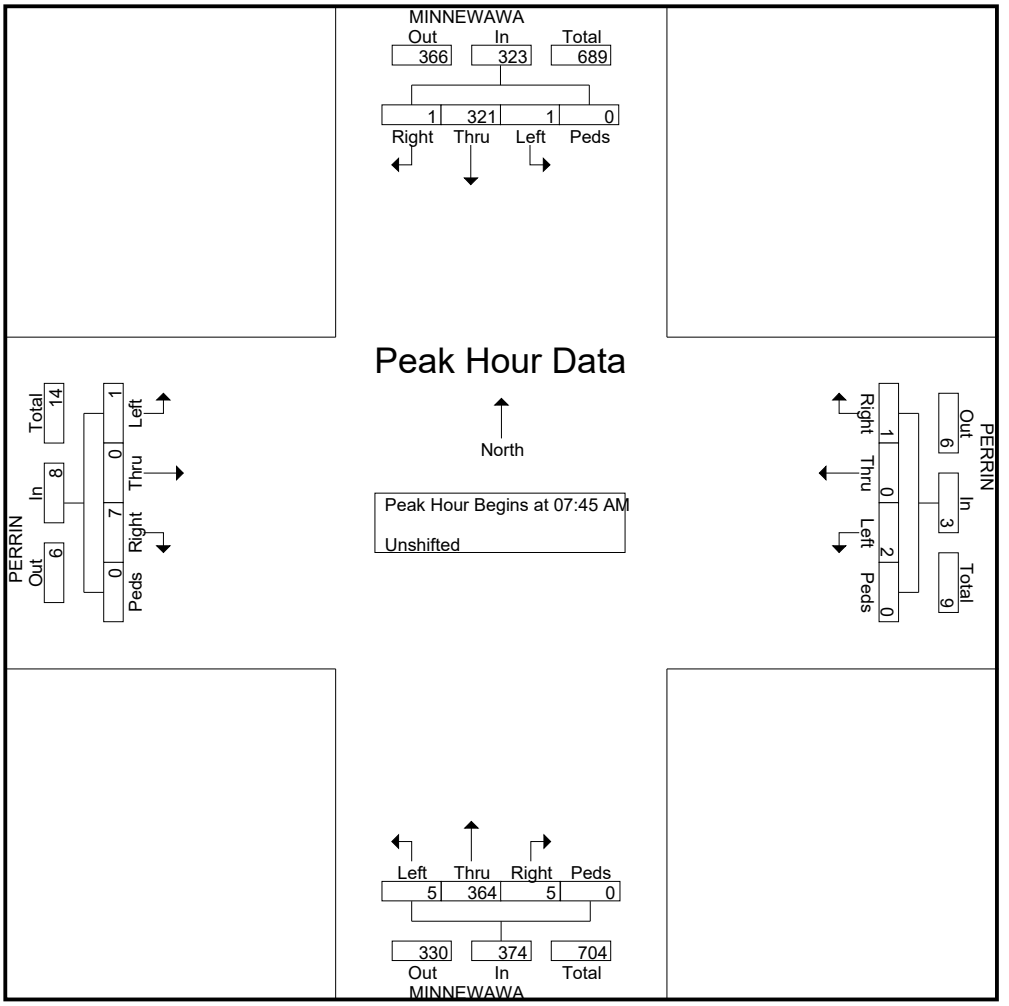
File Name : Minnewawa at Perrin
Site Code : 00000000
Start Date : 2/14/2024
Page No : 2

| | MINNEWAWA From North | | | | | PERRIN From East | | | | | MINNEWAWA From South | | | | | PERRIN From West | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | | | | | | | | | | | | |
| 07:45 AM | 0 | **87** | 0 | 0 | **87** | **1** | 0 | **1** | 0 | **2** | **2** | 88 | **2** | 0 | 92 | **2** | 0 | 0 | 0 | 2 | 183 |
| 08:00 AM | 0 | 81 | 0 | 0 | 81 | 0 | 0 | 1 | 0 | 1 | 1 | 87 | 0 | 0 | 88 | 2 | 0 | 0 | 0 | 2 | 172 |
| 08:15 AM | **1** | 82 | 0 | 0 | 83 | 0 | 0 | 0 | 0 | 0 | 2 | **101** | 2 | 0 | **105** | 1 | 0 | 0 | 0 | 1 | **189** |
| 08:30 AM | 0 | 71 | **1** | 0 | 72 | 0 | 0 | 0 | 0 | 0 | 0 | 88 | 1 | 0 | 89 | 2 | 0 | **1** | 0 | **3** | 164 |
| Total Volume | 1 | 321 | 1 | 0 | 323 | 1 | 0 | 2 | 0 | 3 | 5 | 364 | 5 | 0 | 374 | 7 | 0 | 1 | 0 | 8 | 708 |
| % App. Total | 0.3 | 99.4 | 0.3 | 0 | | 33.3 | 0 | 66.7 | 0 | | 1.3 | 97.3 | 1.3 | 0 | | 87.5 | 0 | 12.5 | 0 | | |
| PHF | .250 | .922 | .250 | .000 | .928 | .250 | .000 | .500 | .000 | .375 | .625 | .901 | .625 | .000 | .890 | .875 | .000 | .250 | .000 | .667 | .937 |



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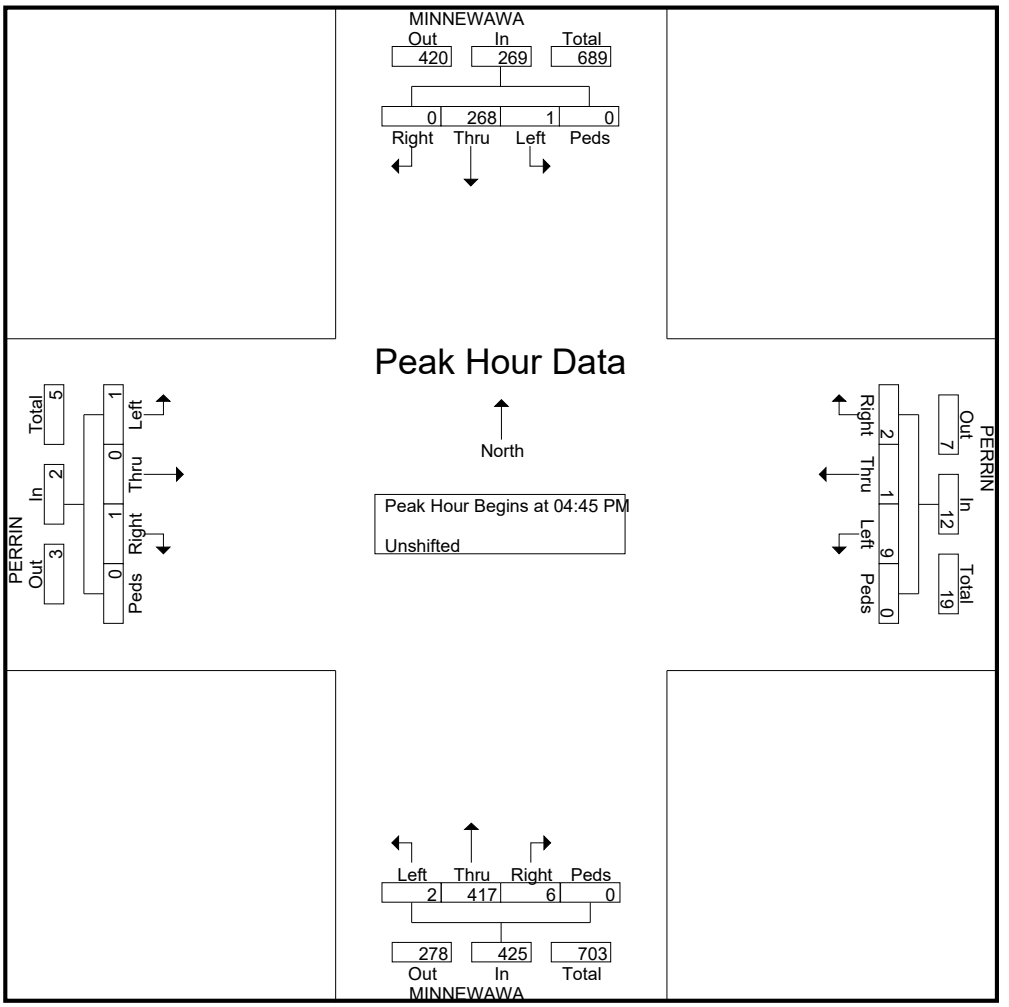
File Name : Minnewawa at Perrin
Site Code : 00000000
Start Date : 2/14/2024
Page No : 3

| | MINNEWAWA From North | | | | | PERRIN From East | | | | | MINNEWAWA From South | | | | | PERRIN From West | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:45 PM | | | | | | | | | | | | | | | | | | | | | |
| 04:45 PM | 0 | **76** | 0 | 0 | 76 | 0 | 0 | 1 | 0 | 1 | 0 | 86 | **1** | 0 | 87 | 0 | 0 | 0 | 0 | 0 | 164 |
| 05:00 PM | 0 | 54 | 0 | 0 | 54 | **1** | **1** | 1 | 0 | 3 | **4** | 98 | 0 | 0 | 102 | **1** | 0 | **1** | 0 | **2** | 161 |
| 05:15 PM | 0 | 76 | **1** | 0 | **77** | 0 | 0 | **5** | 0 | **5** | 0 | **118** | 1 | 0 | **119** | 0 | 0 | 0 | 0 | 0 | **201** |
| 05:30 PM | 0 | 62 | 0 | 0 | 62 | 1 | 0 | 2 | 0 | 3 | 2 | 115 | 0 | 0 | 117 | 0 | 0 | 0 | 0 | 0 | 182 |
| Total Volume | 0 | 268 | 1 | 0 | 269 | 2 | 1 | 9 | 0 | 12 | 6 | 417 | 2 | 0 | 425 | 1 | 0 | 1 | 0 | 2 | 708 |
| % App. Total | 0 | 99.6 | 0.4 | 0 | | 16.7 | 8.3 | 75 | 0 | | 1.4 | 98.1 | 0.5 | 0 | | 50 | 0 | 50 | 0 | | |
| PHF | .000 | .882 | .250 | .000 | .873 | .500 | .250 | .450 | .000 | .600 | .375 | .883 | .500 | .000 | .893 | .250 | .000 | .250 | .000 | .250 | .881 |



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File Name : Minnewawa at Perrin
Site Code : 00000000
Start Date : 2/14/2024
Page No : 1

Groups Printed- Bank 2

| | MINNEWAWA From North | | | | PERRIN From East | | | | MINNEWAWA From South | | | | PERRIN From West | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Int. Total |
| *** BREAK *** | | | | | | | | | | | | | | | | | |
| 04:45 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| *** BREAK *** | | | | | | | | | | | | | | | | | |
| Grand Total | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Apprch % | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total % | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

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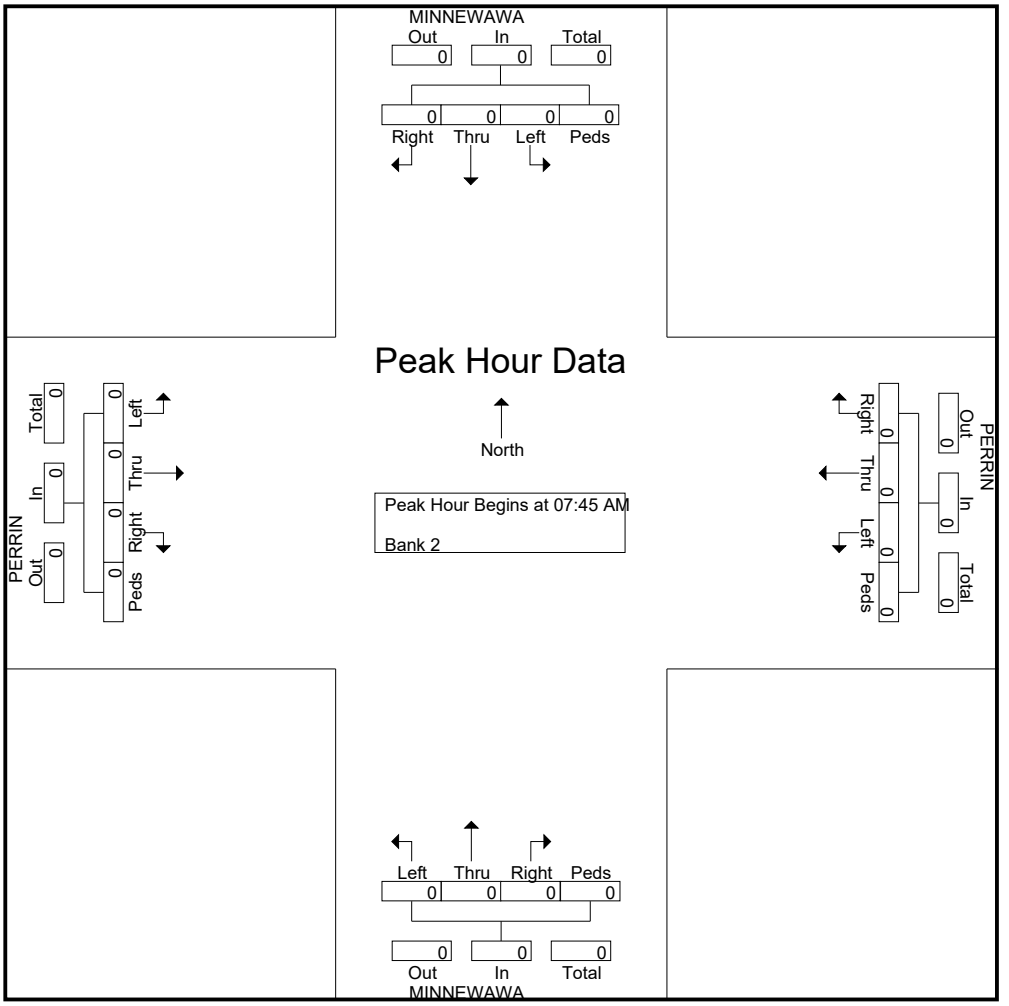
File Name : Minnewawa at Perrin
Site Code : 00000000
Start Date : 2/14/2024
Page No : 2

| | MINNEWAWA From North | | | | | PERRIN From East | | | | | MINNEWAWA From South | | | | | PERRIN From West | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:45 AM | | | | | | | | | | | | | | | | | | | | | |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |



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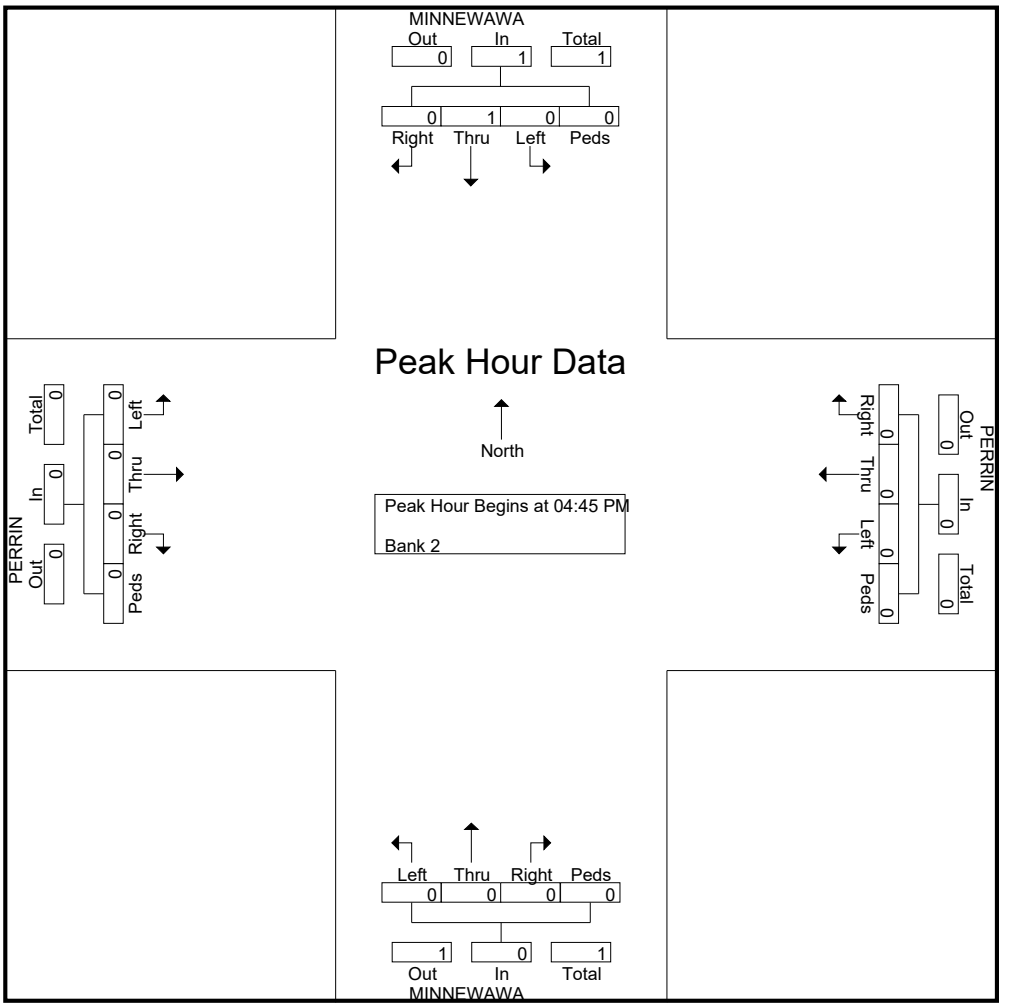
File Name : Minnewawa at Perrin
Site Code : 00000000
Start Date : 2/14/2024
Page No : 3

| | MINNEWAWA From North | | | | | PERRIN From East | | | | | MINNEWAWA From South | | | | | PERRIN From West | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:45 PM | | | | | | | | | | | | | | | | | | | | | |
| 04:45 PM | 0 | **1** | 0 | 0 | **1** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **1** |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| % App. Total | 0 | 100 | 0 | 0 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | |
| PHF | .000 | .250 | .000 | .000 | .250 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .250 |



# JLB Traffic Engineering, Inc.

516 West Shaw Avenue, Suite 103
Fresno, CA, 93704
*Traffic Engineering, Transportation, & Parking Solutions*
*www.JLBtraffic.com*


File Name : Clovis at Baron
Site Code : 00000000
Start Date : 3/7/2024
Page No : 1

Groups Printed- Unshifted - Bank 1

| | CLOVIS From North | | | | BARON From East | | | | CLOVIS From South | | | | BARON From West | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 27 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 12 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 23 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 23 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 7 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 20 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 52 | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 93 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 16 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 19 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 5 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 9 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 45 |
| *** BREAK *** | | | | | | | | | | | | | | | | | |
| 03:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 9 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 9 |
| 04:00 PM | 0 | 0 | 0 | 0 | 1 | 0 | 8 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 11 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 13 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 2 | 0 | 5 | 0 | 0 | 0 | 0 | 1 | 15 |
| 04:45 PM | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 0 | 2 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 17 |
| Total | 0 | 0 | 1 | 0 | 1 | 0 | 24 | 0 | 6 | 0 | 23 | 0 | 0 | 0 | 0 | 1 | 56 |
| 05:00 PM | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 9 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 11 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 6 |
| Total | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 1 | 0 | 21 | 0 | 0 | 0 | 0 | 1 | 27 |
| Grand Total | 0 | 0 | 1 | 1 | 1 | 0 | 45 | 0 | 68 | 0 | 112 | 0 | 0 | 0 | 0 | 2 | 230 |
| Apprch % | 0 | 0 | 50 | 50 | 2.2 | 0 | 97.8 | 0 | 37.8 | 0 | 62.2 | 0 | 0 | 0 | 0 | 100 | |
| Total % | 0 | 0 | 0.4 | 0.4 | 0.4 | 0 | 19.6 | 0 | 29.6 | 0 | 48.7 | 0 | 0 | 0 | 0 | 0.9 | |
| Unshifted | 0 | 0 | 1 | 1 | 1 | 0 | 45 | 0 | 68 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 119 |
| % Unshifted | 0 | 0 | 100 | 100 | 100 | 0 | 100 | 0 | 100 | 0 | 0.9 | 0 | 0 | 0 | 0 | 100 | 51.7 |
| Bank 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 111 | 0 | 0 | 0 | 0 | 0 | 111 |
| % Bank 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 99.1 | 0 | 0 | 0 | 0 | 0 | 48.3 |

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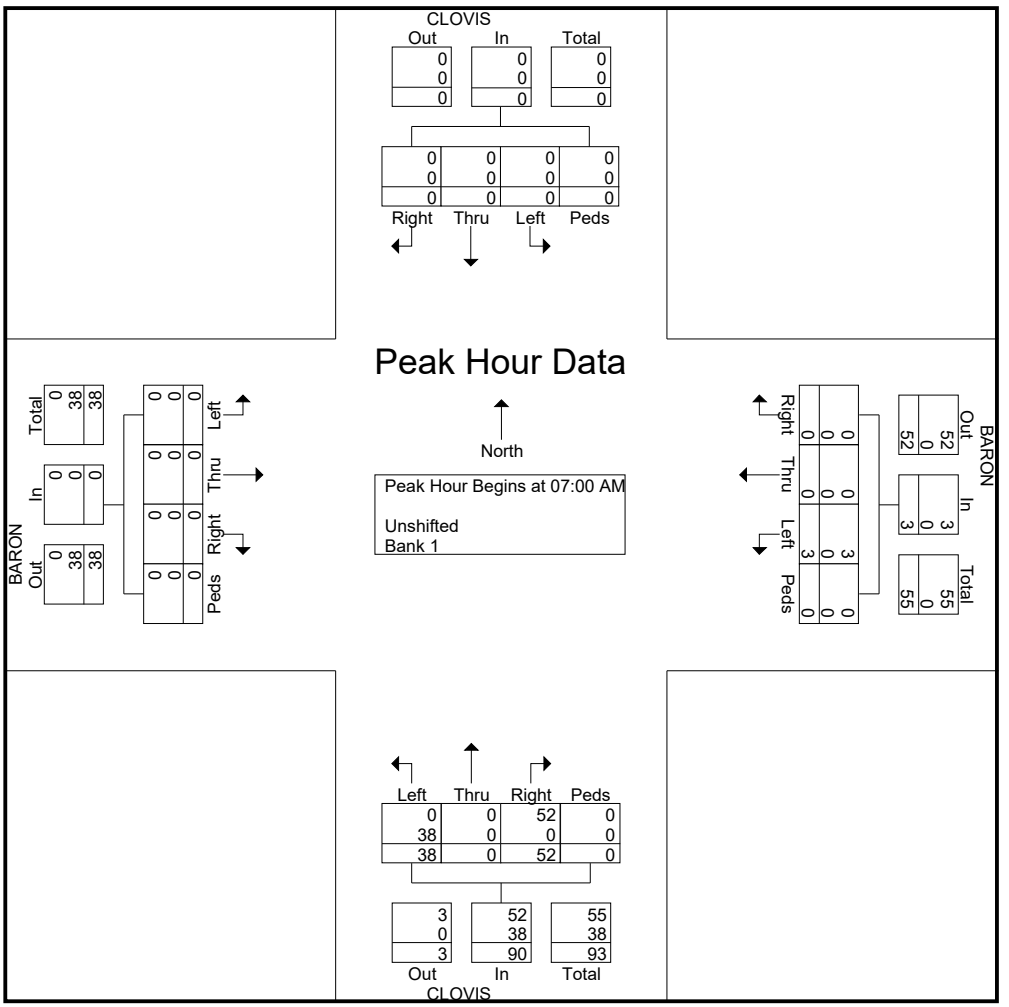
File Name : Clovis at Baron
Site Code : 00000000
Start Date : 3/7/2024
Page No : 2

| | CLOVIS From North | | | | | BARON From East | | | | | CLOVIS From South | | | | | BARON From West | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:00 AM | | | | | | | | | | | | | | | | | | | | | |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **19** | 0 | 8 | 0 | **27** | 0 | 0 | 0 | 0 | 0 | **27** |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 12 | 0 | 10 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 23 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 9 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 23 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **2** | 0 | **2** | 7 | 0 | **11** | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 20 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 52 | 0 | 38 | 0 | 90 | 0 | 0 | 0 | 0 | 0 | 93 |
| % App. Total | 0 | 0 | 0 | 0 | | 0 | 0 | 100 | 0 | | 57.8 | 0 | 42.2 | 0 | | 0 | 0 | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .375 | .000 | .375 | .684 | .000 | .864 | .000 | .833 | .000 | .000 | .000 | .000 | .000 | .861 |
| Unshifted | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 52 | 0 | 0 | 0 | 52 | 0 | 0 | 0 | 0 | 0 | 55 |
| % Unshifted | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 100 | 0 | 0 | 0 | 57.8 | 0 | 0 | 0 | 0 | 0 | 59.1 |
| Bank 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 38 |
| % Bank 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 42.2 | 0 | 0 | 0 | 0 | 0 | 40.9 |



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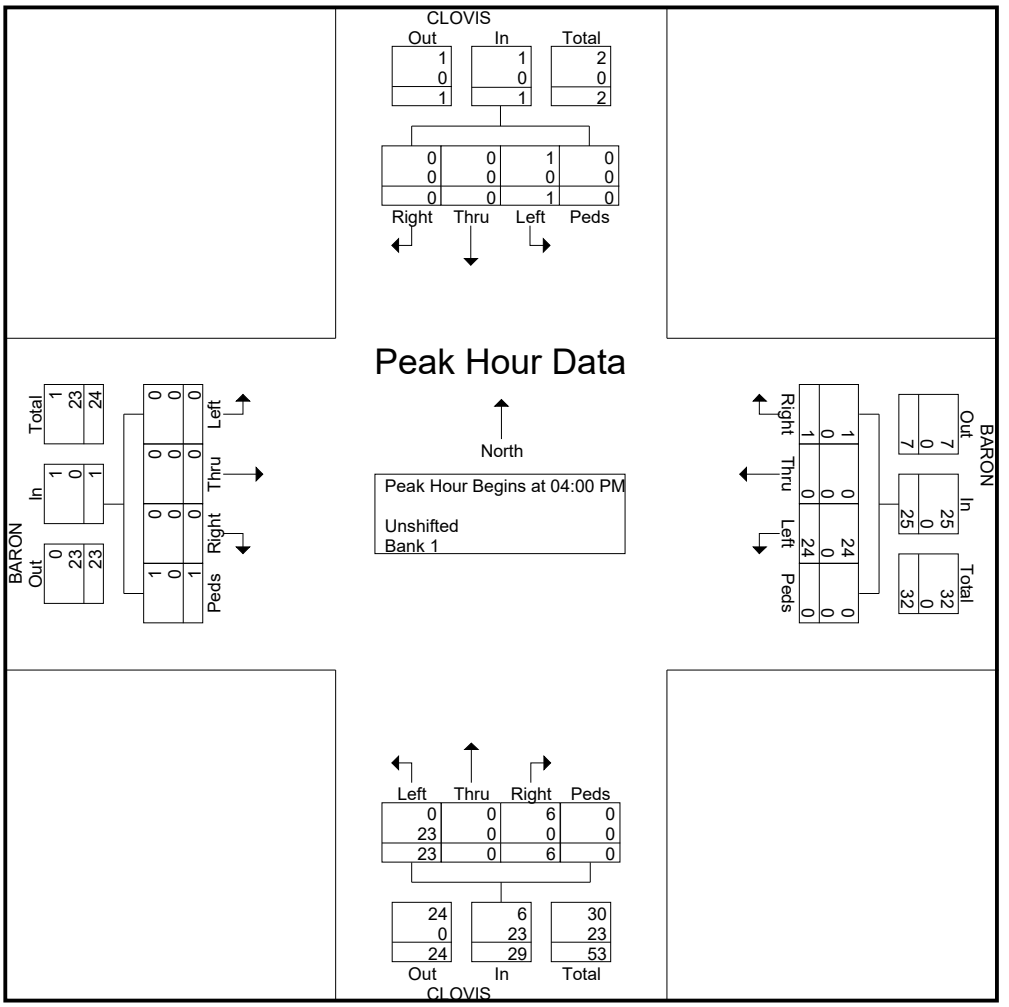
File Name : Clovis at Baron
Site Code : 00000000
Start Date : 3/7/2024
Page No : 3

| | CLOVIS From North | | | | | BARON From East | | | | | CLOVIS From South | | | | | BARON From West | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:00 PM | | | | | | | | | | | | | | | | | | | | | |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | **1** | 0 | **8** | 0 | **9** | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 11 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 1 | 0 | 7 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 13 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | **2** | 0 | 5 | 0 | 7 | 0 | 0 | 0 | **1** | **1** | 15 |
| 04:45 PM | 0 | 0 | **1** | 0 | **1** | 0 | 0 | 4 | 0 | 4 | 2 | 0 | **10** | 0 | **12** | 0 | 0 | 0 | 0 | 0 | **17** |
| Total Volume | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 24 | 0 | 25 | 6 | 0 | 23 | 0 | 29 | 0 | 0 | 0 | 1 | 1 | 56 |
| % App. Total | 0 | 0 | 100 | 0 | | 4 | 0 | 96 | 0 | | 20.7 | 0 | 79.3 | 0 | | 0 | 0 | 0 | 100 | | |
| PHF | .000 | .000 | .250 | .000 | .250 | .250 | .000 | .750 | .000 | .694 | .750 | .000 | .575 | .000 | .604 | .000 | .000 | .000 | .250 | .250 | .824 |
| Unshifted | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 24 | 0 | 25 | 6 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 1 | 1 | 33 |
| % Unshifted | 0 | 0 | 100 | 0 | 100 | 100 | 0 | 100 | 0 | 100 | 100 | 0 | 0 | 0 | 20.7 | 0 | 0 | 0 | 100 | 100 | 58.9 |
| Bank 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 23 |
| % Bank 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 79.3 | 0 | 0 | 0 | 0 | 0 | 41.1 |



**Metro Traffic Data Inc.**
310 N. Irwin Street - Suite 20
Hanford, CA 93230

800-975-6938 Phone/Fax
www.metrotrafficdata.com

# Turning Movement Report

Prepared For:

**JLB Traffic Engineering, Inc.**
516 W. Shaw Ave, Suite 103
Fresno, CA 93704

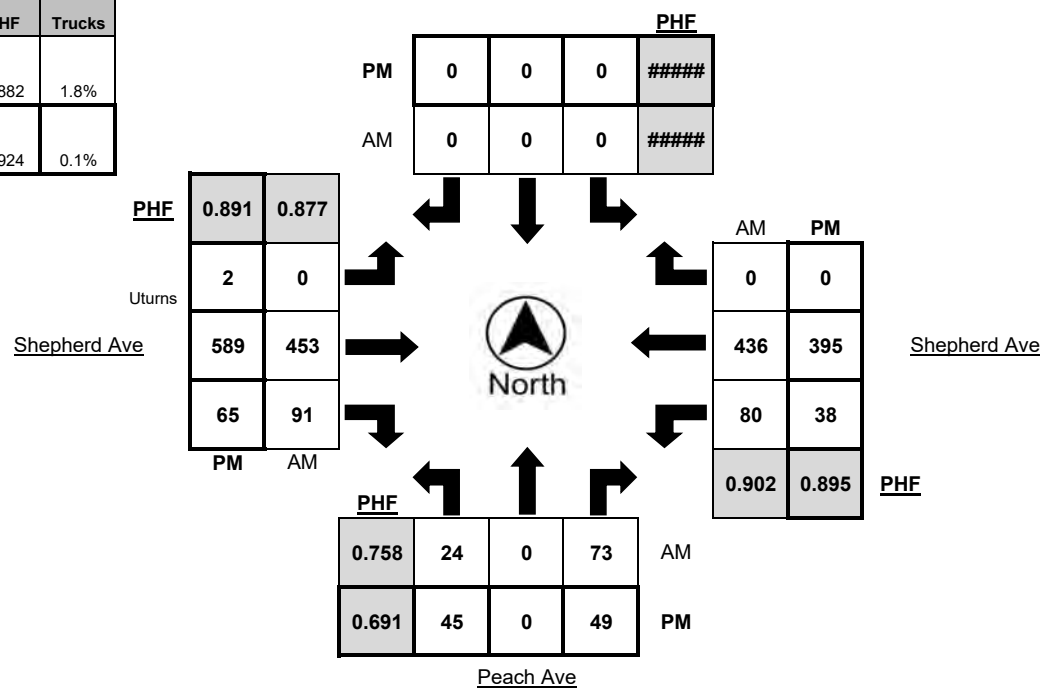
**LOCATION** Shepherd Ave @ Peach Ave
**LATITUDE** 36.8667
**COUNTY** Fresno
**LONGITUDE** -119.7201
**COLLECTION DATE** Tuesday, February 4, 2020
**WEATHER** Clear

| | Northbound | | | | Southbound | | | | Eastbound | | | | Westbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | **Left** | **Thru** | **Right** | **Trucks** | **Left** | **Thru** | **Right** | **Trucks** | **Left** | **Thru** | **Right** | **Trucks** | **Left** | **Thru** | **Right** | **Trucks** |
| **7:00 AM - 7:15 AM** | 7 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 75 | 13 | 1 | 9 | 84 | 0 | 3 |
| **7:15 AM - 7:30 AM** | 15 | 0 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 92 | 17 | 3 | 13 | 97 | 0 | 4 |
| **7:30 AM - 7:45 AM** | 1 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 116 | 28 | 3 | 26 | 100 | 0 | 4 |
| **7:45 AM - 8:00 AM** | 5 | 0 | 25 | 1 | 0 | 0 | 0 | 0 | 0 | 134 | 21 | 4 | 34 | 109 | 0 | 2 |
| **8:00 AM - 8:15 AM** | 11 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 111 | 21 | 1 | 10 | 111 | 0 | 0 |
| **8:15 AM - 8:30 AM** | 7 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 92 | 21 | 6 | 10 | 116 | 0 | 0 |
| **8:30 AM - 8:45 AM** | 8 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 11 | 1 | 8 | 102 | 0 | 3 |
| **8:45 AM - 9:00 AM** | 6 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 68 | 14 | 2 | 4 | 99 | 0 | 0 |
| **TOTAL** | **60** | **0** | **109** | **3** | **0** | **0** | **0** | **0** | **0** | **770** | **146** | **21** | **114** | **818** | **0** | **16** |

| | Northbound | | | | Southbound | | | | Eastbound | | | | Westbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | **Left** | **Thru** | **Right** | **Trucks** | **Left** | **Thru** | **Right** | **Trucks** | **Left** | **Thru** | **Right** | **Trucks** | **Left** | **Thru** | **Right** | **Trucks** |
| **4:00 PM - 4:15 PM** | 7 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 121 | 11 | 1 | 8 | 90 | 0 | 2 |
| **4:15 PM - 4:30 PM** | 12 | 0 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 136 | 12 | 0 | 7 | 105 | 0 | 0 |
| **4:30 PM - 4:45 PM** | 11 | 0 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 123 | 5 | 0 | 12 | 104 | 0 | 0 |
| **4:45 PM - 5:00 PM** | 15 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 143 | 13 | 0 | 7 | 94 | 0 | 0 |
| **5:00 PM - 5:15 PM** | 9 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 151 | 19 | 0 | 14 | 102 | 0 | 0 |
| **5:15 PM - 5:30 PM** | 15 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 166 | 18 | 0 | 8 | 87 | 0 | 0 |
| **5:30 PM - 5:45 PM** | 6 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 129 | 15 | 0 | 9 | 112 | 0 | 1 |
| **5:45 PM - 6:00 PM** | 9 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 119 | 26 | 2 | 7 | 105 | 0 | 0 |
| **TOTAL** | **84** | **0** | **77** | **2** | **0** | **0** | **0** | **0** | **3** | **1088** | **119** | **3** | **72** | **799** | **0** | **3** |

| | Northbound | | | | Southbound | | | | Eastbound | | | | Westbound | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PEAK HOUR** | **Left** | **Thru** | **Right** | **Trucks** | **Left** | **Thru** | **Right** | **Trucks** | **Left** | **Thru** | **Right** | **Trucks** | **Left** | **Thru** | **Right** | **Trucks** |
| **7:30 AM - 8:30 AM** | 24 | 0 | 73 | 1 | 0 | 0 | 0 | 0 | 0 | 453 | 91 | 14 | 80 | 436 | 0 | 6 |
| **4:45 PM - 5:45 PM** | 45 | 0 | 49 | 0 | 0 | 0 | 0 | 0 | 2 | 589 | 65 | 0 | 38 | 395 | 0 | 1 |

| | PHF | Trucks |
|---|---|---|
| **AM** | 0.882 | 1.8% |
| **PM** | 0.924 | 0.1% |



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# Turning Movement Report

Prepared For:

**JLB Traffic Engineering, Inc.**
516 W. Shaw Ave, Suite 103
Fresno, CA 93704

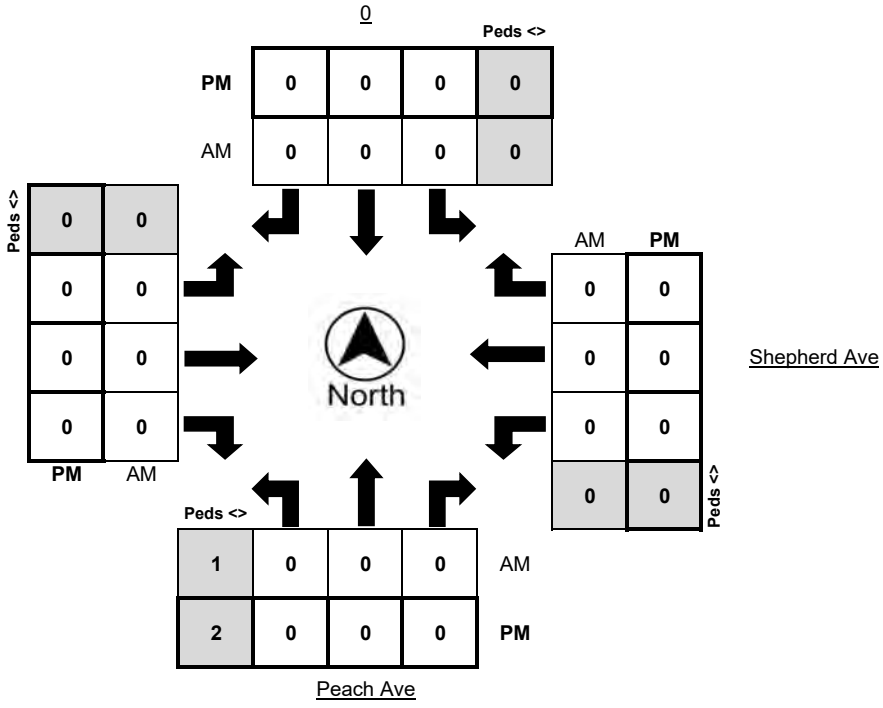
**LOCATION** Shepherd Ave @ Peach Ave
**LATITUDE** 36.8667
**COUNTY** Fresno
**LONGITUDE** -119.7201
**COLLECTION DATE** Tuesday, February 4, 2020
**WEATHER** Clear

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:00 AM - 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM - 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM - 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM - 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM - 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM - 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM - 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM - 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 4:00 PM - 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM - 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 4:30 PM - 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 4:45 PM - 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM - 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM - 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM - 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM - 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **4** | **0** | **0** | **0** | **1** | **0** | **1** | **0** | **0** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:30 AM - 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM - 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | Bikes | Peds |
|---|---|---|
| AM Peak Total | 0 | 1 |
| PM Peak Total | **0** | **2** |



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# Turning Movement Report

Prepared For:
**JLB Traffic Engineering, Inc.**
516 W. Shaw Ave, Suite 103
Fresno, CA 93704

**LOCATION** Minnewawa Ave @ Shepherd Ave
**COUNTY** Fresno
**COLLECTION DATE** Thursday, November 2, 2023

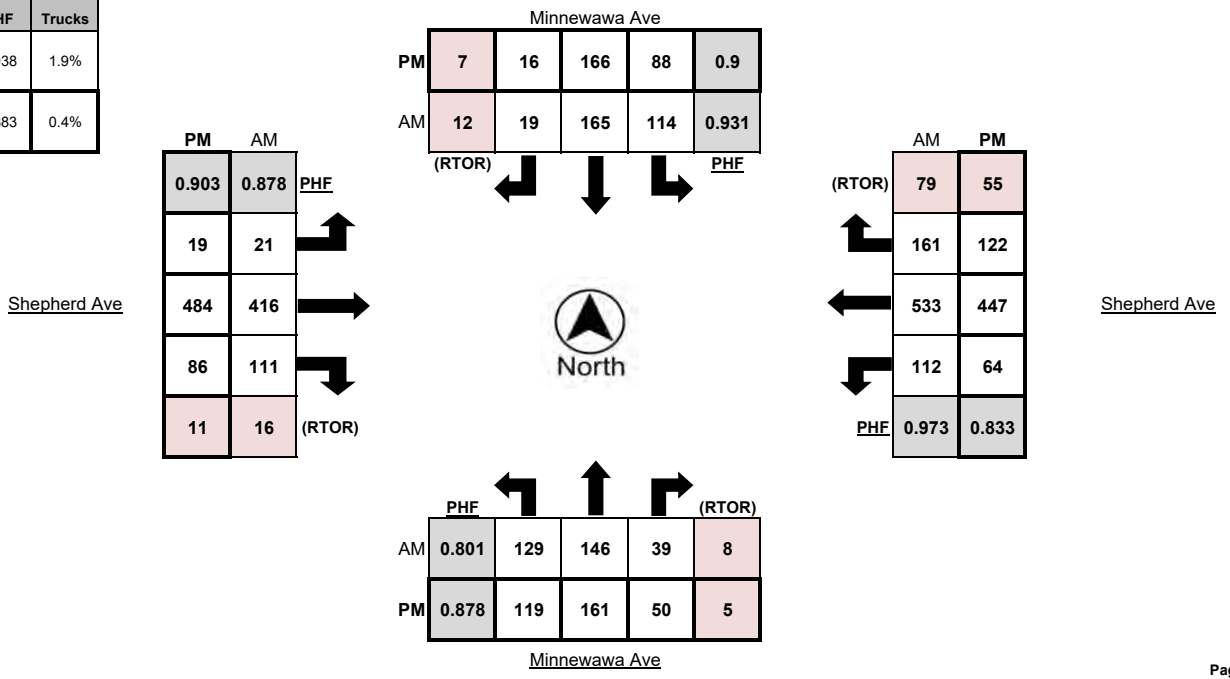
**LATITUDE** 36.8666
**LONGITUDE** -119.7111
**WEATHER** Clear

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks |
| 7:00 AM - 7:15 AM | 12 | 17 | 0 | 0 | 1 | 12 | 18 | 3 | 2 | 1 | 4 | 65 | 16 | 9 | 1 | 4 | 56 | 19 | 7 | 3 |
| 7:15 AM - 7:30 AM | 15 | 31 | 4 | 1 | 0 | 23 | 43 | 3 | 0 | 1 | 2 | 92 | 14 | 4 | 3 | 15 | 78 | 16 | 7 | 2 |
| 7:30 AM - 7:45 AM | 19 | 40 | 8 | 3 | 1 | 24 | 40 | 7 | 5 | 2 | 5 | 90 | 20 | 5 | 1 | 18 | 133 | 42 | 23 | 1 |
| 7:45 AM - 8:00 AM | 29 | 28 | 7 | 2 | 0 | 30 | 34 | 4 | 2 | 1 | 5 | 120 | 31 | 4 | 2 | 19 | 149 | 38 | 21 | 3 |
| 8:00 AM - 8:15 AM | 36 | 33 | 16 | 1 | 1 | 31 | 46 | 3 | 2 | 1 | 7 | 109 | 36 | 4 | 4 | 43 | 129 | 35 | 14 | 3 |
| 8:15 AM - 8:30 AM | 45 | 45 | 8 | 2 | 4 | 29 | 45 | 5 | 3 | 4 | 4 | 97 | 24 | 3 | 5 | 32 | 122 | 46 | 21 | 5 |
| 8:30 AM - 8:45 AM | 23 | 29 | 12 | 3 | 0 | 29 | 33 | 1 | 0 | 4 | 2 | 103 | 13 | 0 | 3 | 10 | 100 | 17 | 10 | 0 |
| 8:45 AM - 9:00 AM | 19 | 17 | 4 | 1 | 2 | 20 | 36 | 2 | 0 | 1 | 3 | 80 | 14 | 0 | 0 | 3 | 96 | 23 | 6 | 2 |
| **TOTAL** | **198** | **240** | **59** | **13** | **9** | **198** | **295** | **28** | **14** | **15** | **32** | **756** | **168** | **29** | **19** | **144** | **863** | **236** | **109** | **19** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks |
| 4:00 PM - 4:15 PM | 22 | 37 | 10 | 2 | 0 | 25 | 35 | 0 | 0 | 5 | 7 | 112 | 15 | 2 | 4 | 4 | 108 | 29 | 11 | 1 |
| 4:15 PM - 4:30 PM | 15 | 28 | 9 | 1 | 2 | 21 | 41 | 1 | 0 | 1 | 11 | 115 | 15 | 2 | 2 | 19 | 98 | 28 | 7 | 1 |
| 4:30 PM - 4:45 PM | 19 | 31 | 8 | 1 | 0 | 28 | 33 | 2 | 2 | 1 | 4 | 123 | 13 | 2 | 2 | 8 | 103 | 24 | 7 | 2 |
| 4:45 PM - 5:00 PM | 24 | 36 | 14 | 2 | 1 | 20 | 48 | 2 | 0 | 0 | 5 | 130 | 19 | 4 | 0 | 6 | 112 | 29 | 11 | 0 |
| 5:00 PM - 5:15 PM | 22 | 32 | 12 | 2 | 1 | 19 | 31 | 2 | 1 | 1 | 3 | 124 | 13 | 2 | 1 | 12 | 108 | 26 | 11 | 0 |
| 5:15 PM - 5:30 PM | 40 | 42 | 8 | 0 | 1 | 19 | 51 | 3 | 2 | 1 | 7 | 140 | 16 | 3 | 1 | 19 | 131 | 40 | 20 | 0 |
| 5:30 PM - 5:45 PM | 34 | 40 | 20 | 3 | 0 | 25 | 43 | 2 | 0 | 0 | 7 | 94 | 29 | 4 | 1 | 19 | 93 | 28 | 8 | 1 |
| 5:45 PM - 6:00 PM | 23 | 47 | 10 | 0 | 0 | 25 | 41 | 9 | 4 | 0 | 2 | 126 | 28 | 2 | 0 | 14 | 115 | 28 | 16 | 0 |
| **TOTAL** | **199** | **293** | **91** | **11** | **5** | **182** | **323** | **21** | **9** | **9** | **46** | **964** | **148** | **21** | **11** | **101** | **868** | **232** | **91** | **5** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks |
| 7:30 AM - 8:30 AM | 129 | 146 | 39 | 8 | 6 | 114 | 165 | 19 | 12 | 8 | 21 | 416 | 111 | 16 | 12 | 112 | 533 | 161 | 79 | 12 |
| 5:00 PM - 6:00 PM | 119 | 161 | 50 | 5 | 2 | 88 | 166 | 16 | 7 | 2 | 19 | 484 | 86 | 11 | 3 | 64 | 447 | 122 | 55 | 1 |

| | PHF | Trucks |
|---|---|---|
| AM | 0.938 | 1.9% |
| PM | 0.883 | 0.4% |



**Metro Traffic Data Inc.**
310 N. Irwin Street - Suite 20
Hanford, CA 93230

800-975-6938 Phone/Fax
www.metrotrafficdata.com

# Turning Movement Report

Prepared For:

**JLB Traffic Engineering, Inc.**
516 W. Shaw Ave, Suite 103
Fresno, CA 93704

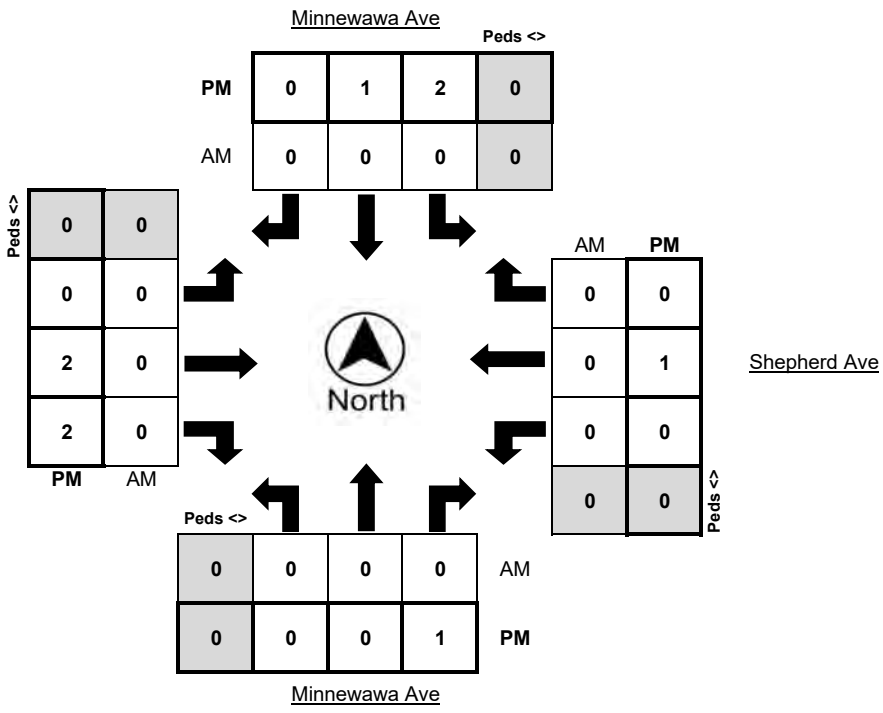
**LOCATION** Minnewawa Ave @ Shepherd Ave
**LATITUDE** 36.8666
**COUNTY** Fresno
**LONGITUDE** -119.7111
**COLLECTION DATE** Thursday, November 2, 2023
**WEATHER** Clear

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:00 AM - 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM - 7:30 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 7:30 AM - 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM - 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM - 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM - 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM - 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM - 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| **TOTAL** | **0** | **0** | **0** | **1** | **0** | **0** | **0** | **0** | **0** | **0** | **1** | **0** | **0** | **1** | **1** | **0** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 4:00 PM - 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM - 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM - 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM - 5:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM - 5:15 PM | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM - 5:30 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
| 5:30 PM - 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM - 6:00 PM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL** | **0** | **0** | **1** | **0** | **2** | **2** | **1** | **0** | **0** | **3** | **2** | **0** | **0** | **1** | **0** | **0** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:30 AM - 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM - 6:00 PM | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 1 | 0 | 0 |

| | Bikes | Peds |
|---|---|---|
| AM Peak Total | 0 | 0 |
| PM Peak Total | **9** | **0** |



**Metro Traffic Data Inc.**
310 N. Irwin Street - Suite 20
Hanford, CA 93230

800-975-6938 Phone/Fax
www.metrotrafficdata.com

# Turning Movement Report

Prepared For:
**JLB Traffic Engineering, Inc.**
516 W. Shaw Ave, Suite 103
Fresno, CA 93704

**LOCATION** Clovis Ave @ Shepherd Ave
**COUNTY** Fresno
**COLLECTION DATE** Thursday, November 2, 2023

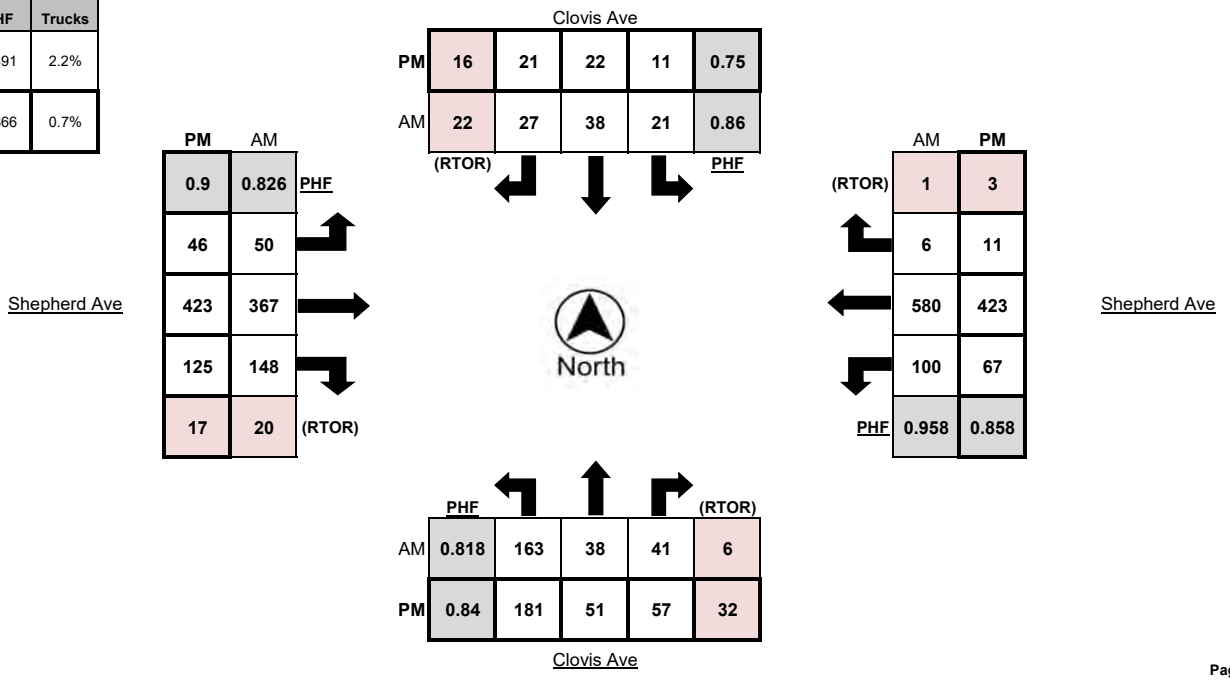
**LATITUDE** 36.8666
**LONGITUDE** -119.7021
**WEATHER** Clear

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks |
| 7:00 AM - 7:15 AM | 23 | 4 | 9 | 2 | 2 | 6 | 8 | 0 | 0 | 0 | 2 | 48 | 27 | 5 | 1 | 8 | 56 | 2 | 1 | 3 |
| 7:15 AM - 7:30 AM | 14 | 6 | 4 | 0 | 0 | 4 | 14 | 10 | 6 | 0 | 1 | 88 | 28 | 5 | 3 | 13 | 81 | 4 | 0 | 4 |
| 7:30 AM - 7:45 AM | 39 | 13 | 14 | 1 | 1 | 5 | 9 | 9 | 5 | 1 | 5 | 75 | 32 | 1 | 2 | 22 | 145 | 0 | 0 | 2 |
| 7:45 AM - 8:00 AM | 51 | 11 | 12 | 3 | 3 | 6 | 9 | 10 | 8 | 0 | 14 | 108 | 49 | 9 | 2 | 27 | 143 | 3 | 1 | 2 |
| 8:00 AM - 8:15 AM | 37 | 6 | 7 | 1 | 1 | 7 | 12 | 2 | 4 | 0 | 20 | 107 | 32 | 7 | 4 | 23 | 155 | 1 | 0 | 3 |
| 8:15 AM - 8:30 AM | 36 | 8 | 8 | 1 | 1 | 3 | 8 | 6 | 5 | 0 | 11 | 77 | 35 | 3 | 8 | 28 | 137 | 2 | 0 | 4 |
| 8:30 AM - 8:45 AM | 27 | 8 | 20 | 1 | 1 | 3 | 3 | 4 | 3 | 0 | 10 | 102 | 39 | 5 | 8 | 9 | 87 | 2 | 1 | 2 |
| 8:45 AM - 9:00 AM | 30 | 5 | 4 | 0 | 0 | 5 | 8 | 4 | 3 | 1 | 13 | 67 | 26 | 7 | 0 | 16 | 78 | 1 | 0 | 1 |
| **TOTAL** | **257** | **61** | **78** | **9** | **9** | **39** | **71** | **45** | **34** | **2** | **76** | **672** | **268** | **42** | **28** | **146** | **882** | **15** | **3** | **21** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks |
| 4:00 PM - 4:15 PM | 51 | 4 | 13 | 6 | 1 | 4 | 11 | 6 | 4 | 0 | 11 | 94 | 26 | 14 | 4 | 9 | 79 | 0 | 0 | 3 |
| 4:15 PM - 4:30 PM | 35 | 11 | 9 | 6 | 1 | 1 | 4 | 1 | 1 | 0 | 12 | 119 | 20 | 4 | 4 | 22 | 104 | 1 | 1 | 1 |
| 4:30 PM - 4:45 PM | 41 | 18 | 15 | 6 | 1 | 1 | 7 | 6 | 1 | 0 | 11 | 101 | 30 | 6 | 2 | 13 | 92 | 2 | 0 | 1 |
| 4:45 PM - 5:00 PM | 47 | 9 | 15 | 6 | 0 | 3 | 6 | 4 | 3 | 1 | 14 | 108 | 27 | 5 | 0 | 14 | 99 | 0 | 0 | 0 |
| 5:00 PM - 5:15 PM | 30 | 12 | 15 | 10 | 0 | 2 | 3 | 4 | 2 | 0 | 11 | 91 | 35 | 3 | 3 | 13 | 102 | 1 | 1 | 1 |
| 5:15 PM - 5:30 PM | 58 | 13 | 15 | 11 | 0 | 1 | 8 | 9 | 7 | 0 | 11 | 123 | 31 | 2 | 1 | 22 | 116 | 8 | 2 | 2 |
| 5:30 PM - 5:45 PM | 46 | 17 | 12 | 5 | 1 | 5 | 5 | 4 | 4 | 0 | 10 | 101 | 32 | 7 | 0 | 18 | 106 | 2 | 0 | 1 |
| 5:45 PM - 6:00 PM | 48 | 14 | 6 | 5 | 0 | 5 | 9 | 5 | 5 | 0 | 8 | 101 | 38 | 2 | 0 | 17 | 87 | 2 | 0 | 0 |
| **TOTAL** | **356** | **98** | **100** | **55** | **4** | **22** | **53** | **39** | **27** | **1** | **88** | **838** | **239** | **43** | **14** | **128** | **785** | **16** | **4** | **9** |

| | Northbound | | | | | Southbound | | | | | Eastbound | | | | | Westbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks | Left | Thru | Right | (RTOR) | Trucks |
| 7:30 AM - 8:30 AM | 163 | 38 | 41 | 6 | 6 | 21 | 38 | 27 | 22 | 1 | 50 | 367 | 148 | 20 | 16 | 100 | 580 | 6 | 1 | 11 |
| 4:45 PM - 5:45 PM | 181 | 51 | 57 | 32 | 1 | 11 | 22 | 21 | 16 | 1 | 46 | 423 | 125 | 17 | 4 | 67 | 423 | 11 | 3 | 4 |

| | PHF | Trucks |
|---|---|---|
| AM | 0.891 | 2.2% |
| PM | 0.866 | 0.7% |



**Metro Traffic Data Inc.**
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Hanford, CA 93230

800-975-6938 Phone/Fax
www.metrotrafficdata.com

# Turning Movement Report

Prepared For:

**JLB Traffic Engineering, Inc.**
516 W. Shaw Ave, Suite 103
Fresno, CA 93704

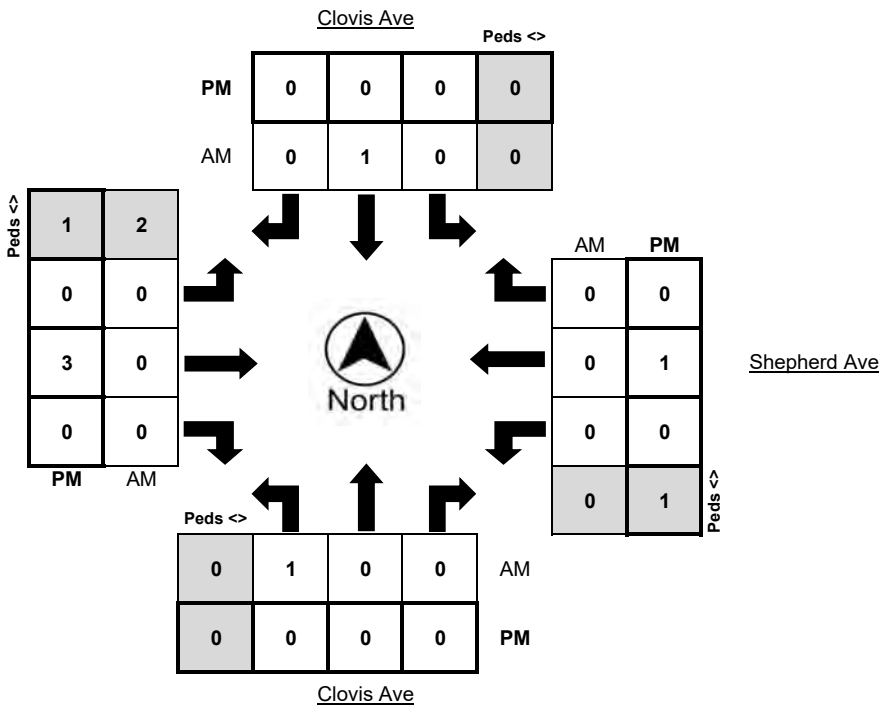
**LOCATION** Clovis Ave @ Shepherd Ave
**LATITUDE** 36.8666
**COUNTY** Fresno
**LONGITUDE** -119.7021
**COLLECTION DATE** Thursday, November 2, 2023
**WEATHER** Clear

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:00 AM - 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| 7:15 AM - 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| 7:30 AM - 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM - 8:00 AM | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 8:00 AM - 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM - 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM - 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM - 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| **TOTAL** | **1** | **0** | **0** | **0** | **0** | **1** | **0** | **0** | **0** | **0** | **0** | **1** | **0** | **3** | **0** | **4** |

| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 4:00 PM - 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 |
| 4:15 PM - 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM - 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:45 PM - 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM - 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM - 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| 5:30 PM - 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:45 PM - 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 |
| **TOTAL** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **4** | **0** | **5** | **1** | **1** | **0** | **2** |

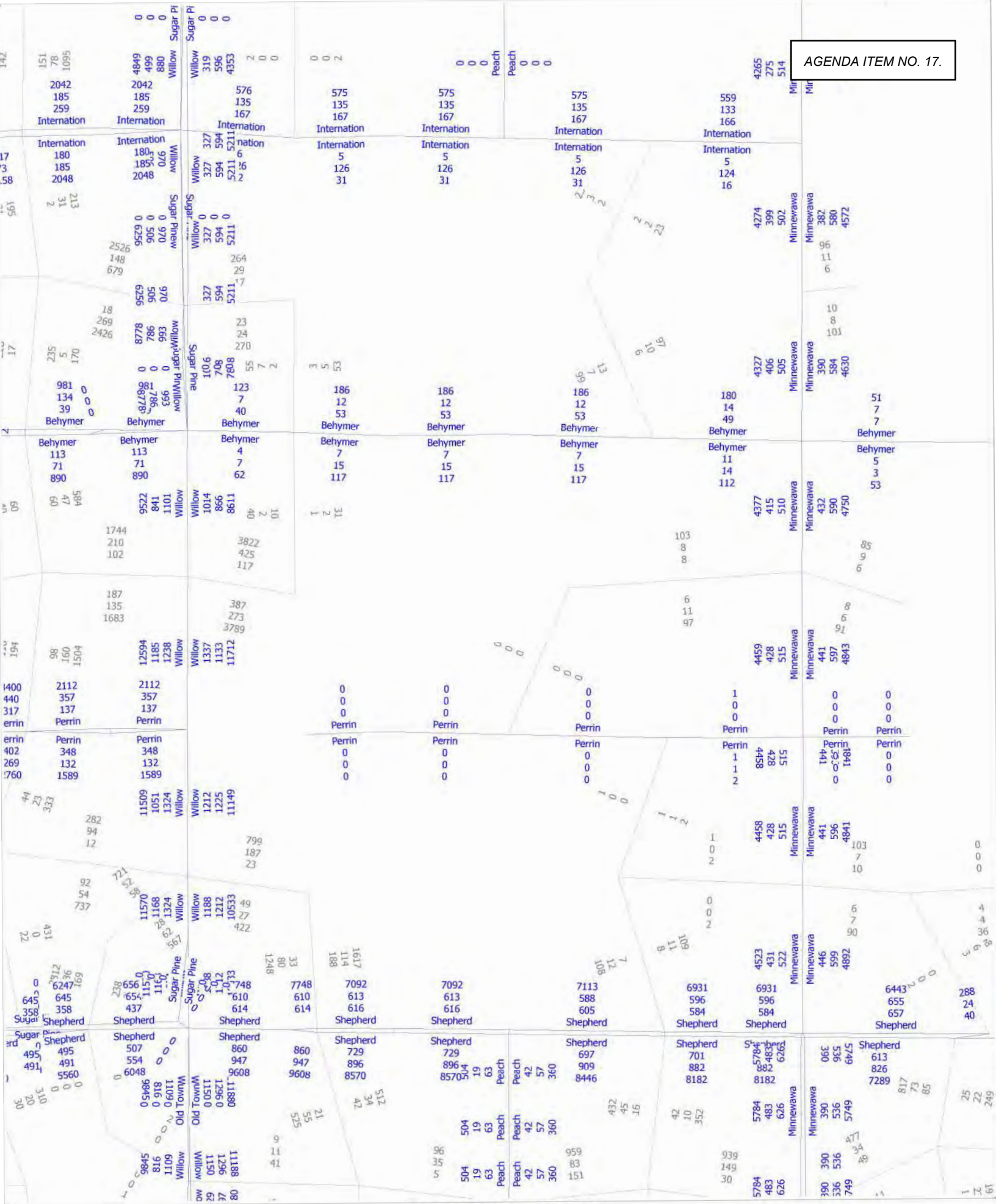
| | Northbound Bikes | | | N.Leg | Southbound Bikes | | | S.Leg | Eastbound Bikes | | | E.Leg | Westbound Bikes | | | W.Leg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEAK HOUR | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds |
| 7:30 AM - 8:30 AM | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4:45 PM - 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 1 | 0 | 1 |

| | Bikes | Peds |
|---|---|---|
| AM Peak Total | 2 | 2 |
| PM Peak Total | **4** | **2** |



# Appendix C: Traffic Modeling

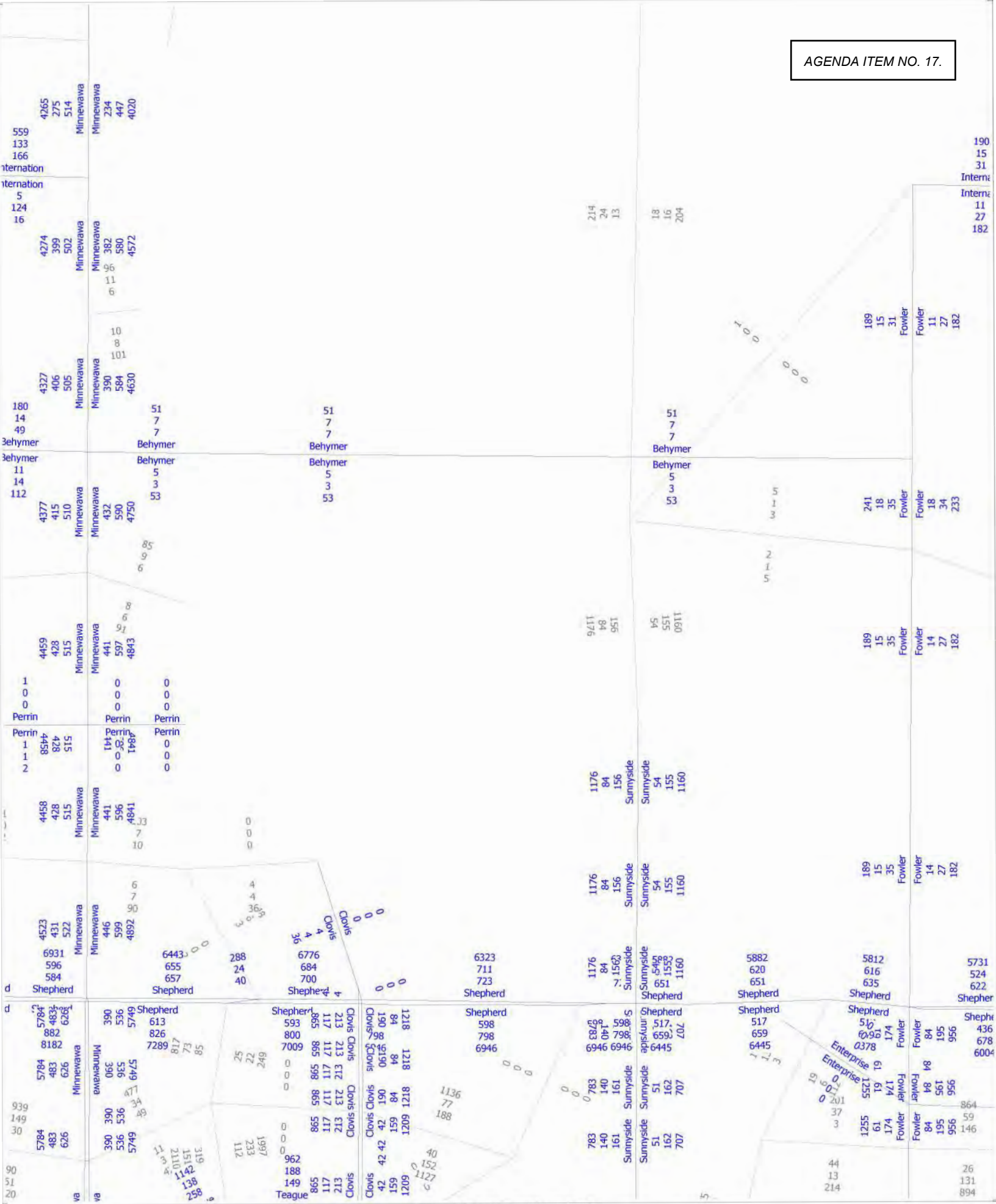
AGENDA ITEM NO. 17.




Clovis and Perrin Residential TIA
Base Year 2019 No Project
AM, PM and Daily Volumes

3228

(Licensed to JLB Traffic Engineering, Inc)

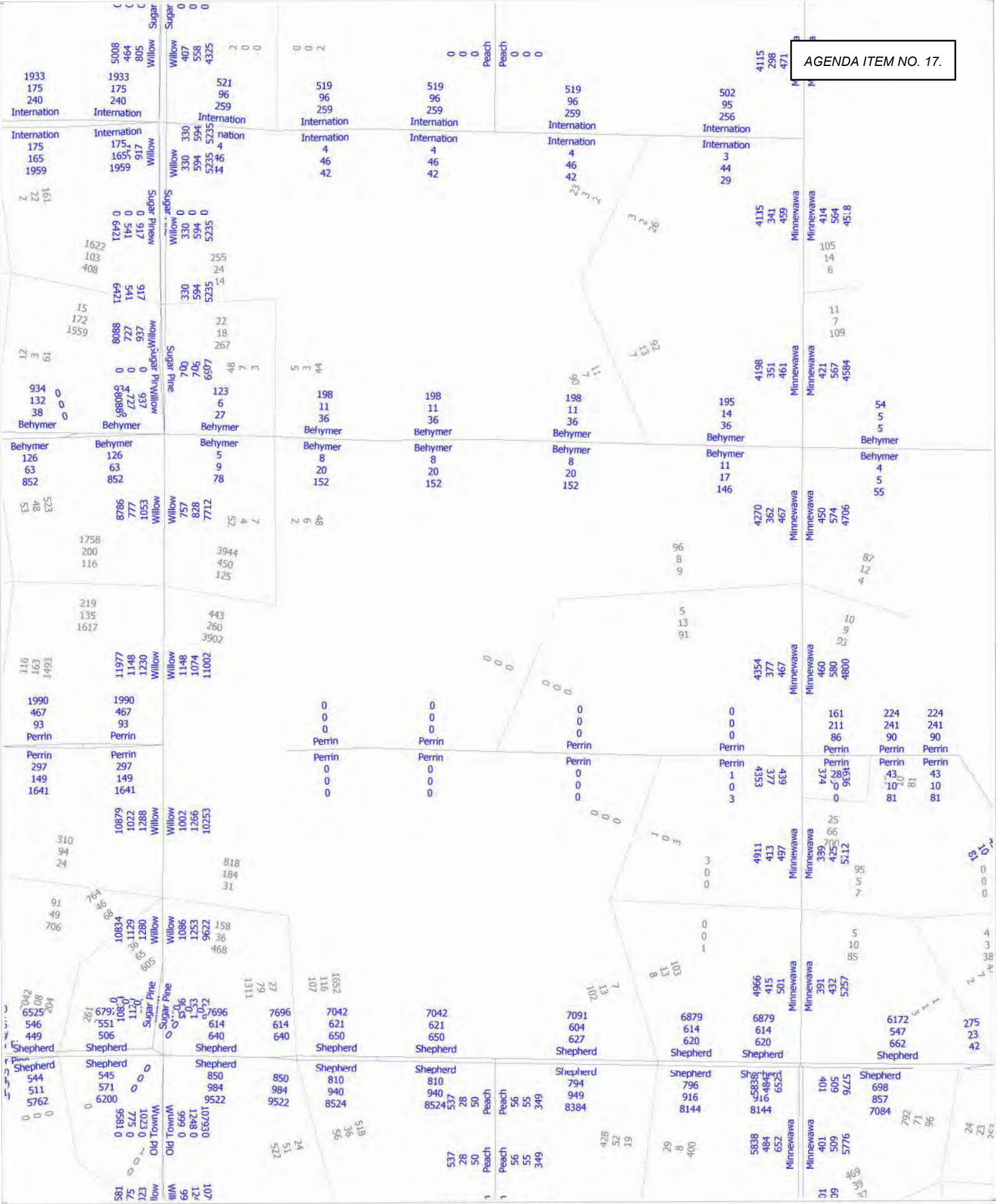



Clovis and Perrin Residential TIA
Base Year 2019 No Project
AM, PM and Daily Volumes



cube
(Licensed to JLB Traffic Engineering, Inc)

AGENDA ITEM NO. 17.

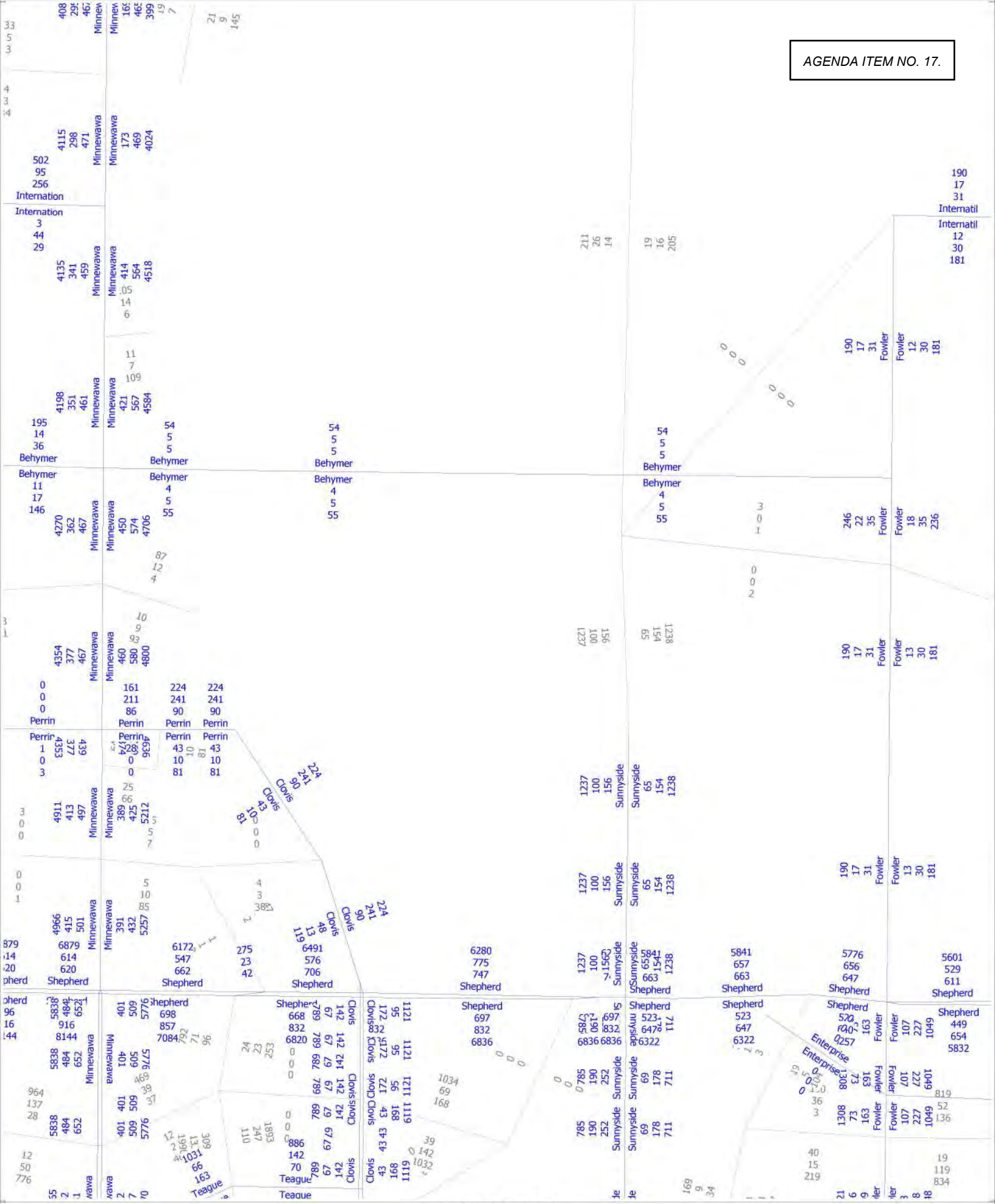


Clovis and Perrin TIA
Base Year 2019 plus Project
AM, PM and Daily Volumes

3230

cube
(Licensed to JLB Traffic Engineering, Inc)

AGENDA ITEM NO. 17.

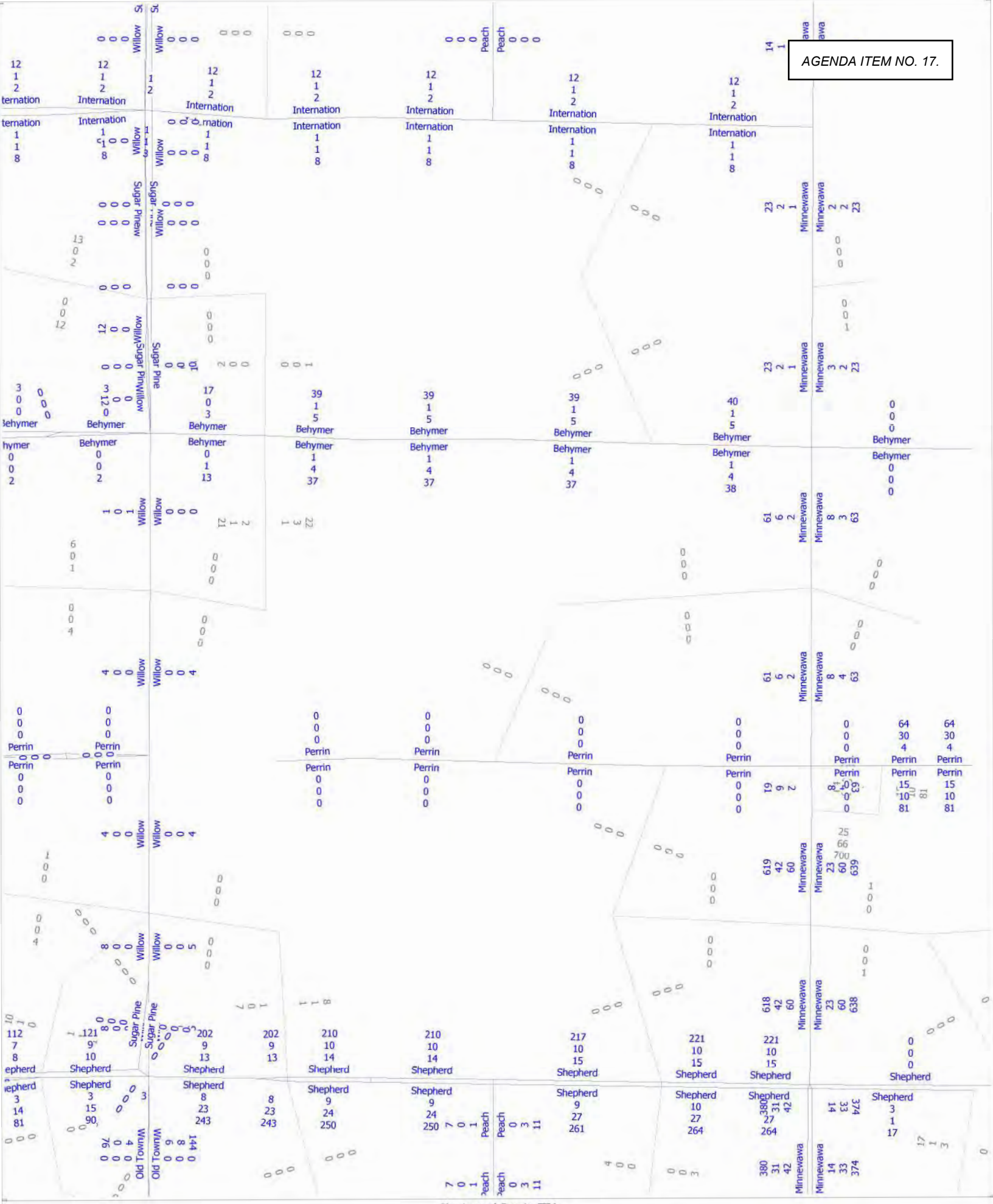



Clovis and Perrin TIA
Base Year 2019 plus Project
AM, PM and Daily Volumes

3231

(Licensed to JLB Traffic Engineering, Inc)

AGENDA ITEM NO. 17.




Clovis and Perrin TIA
Base Year 2019 plus Project - Select Zone
AM, PM and Daily Volumes

3232

cube
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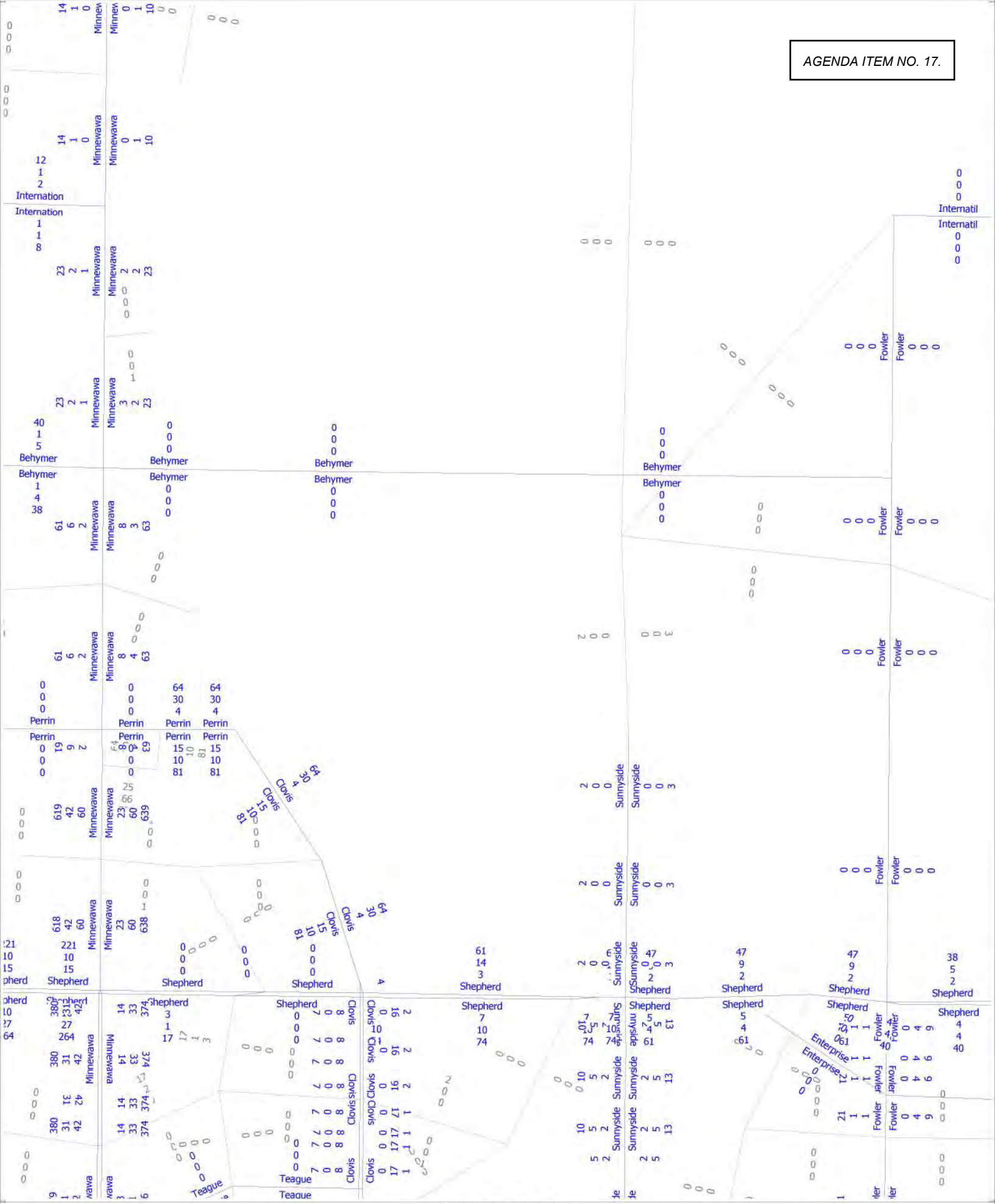


Clovis and Perrin TIA
Base Year 2019 plus Project - Select Zone
AM, PM and Daily Volumes



cube
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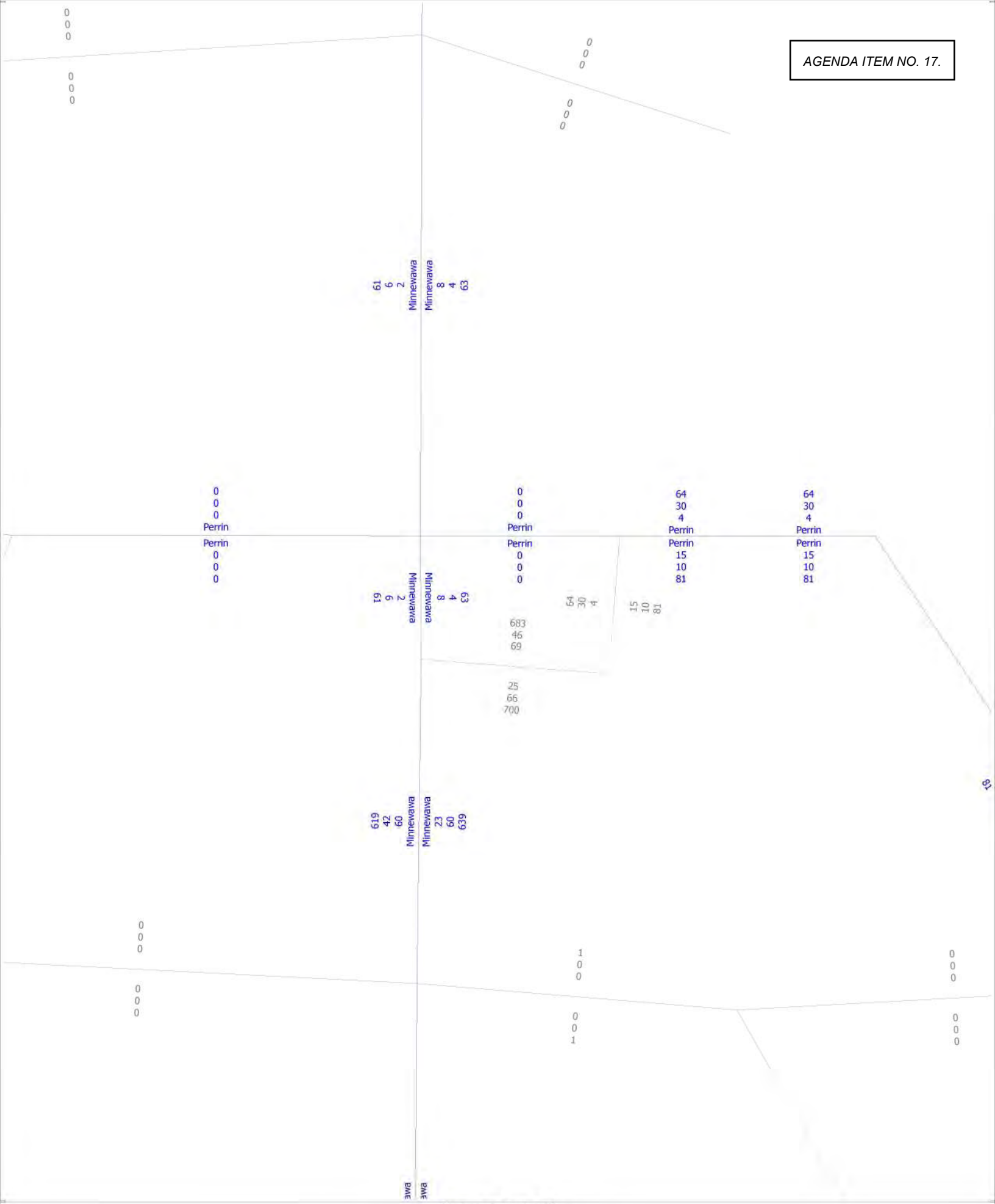
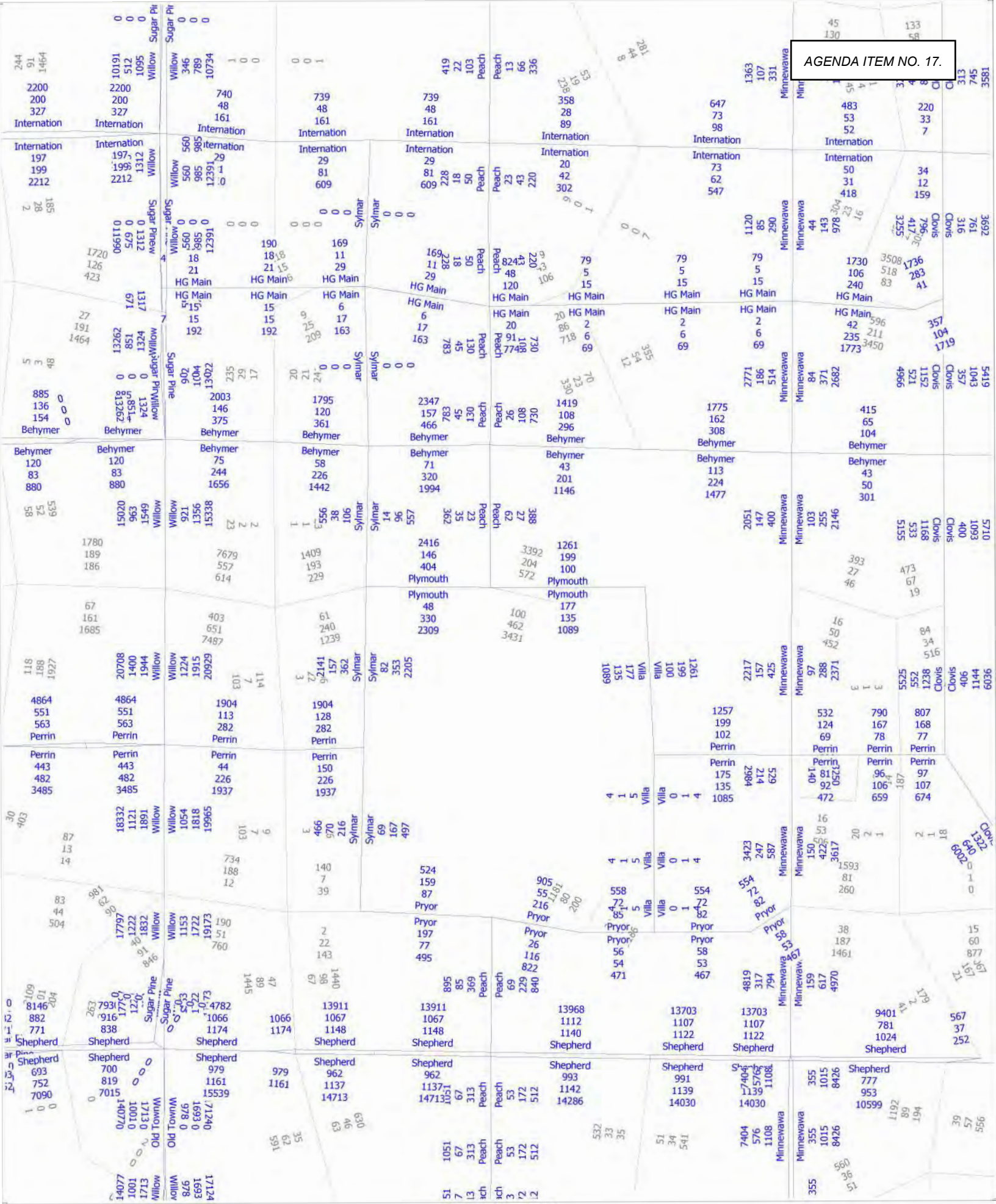



Clovis and Perrin TIA
Base Year 2019 plus Project - Select Zone
AM, PM and Daily Volumes



cube
(Licensed to JLB Traffic Engineering, Inc)

AGENDA ITEM NO. 17.

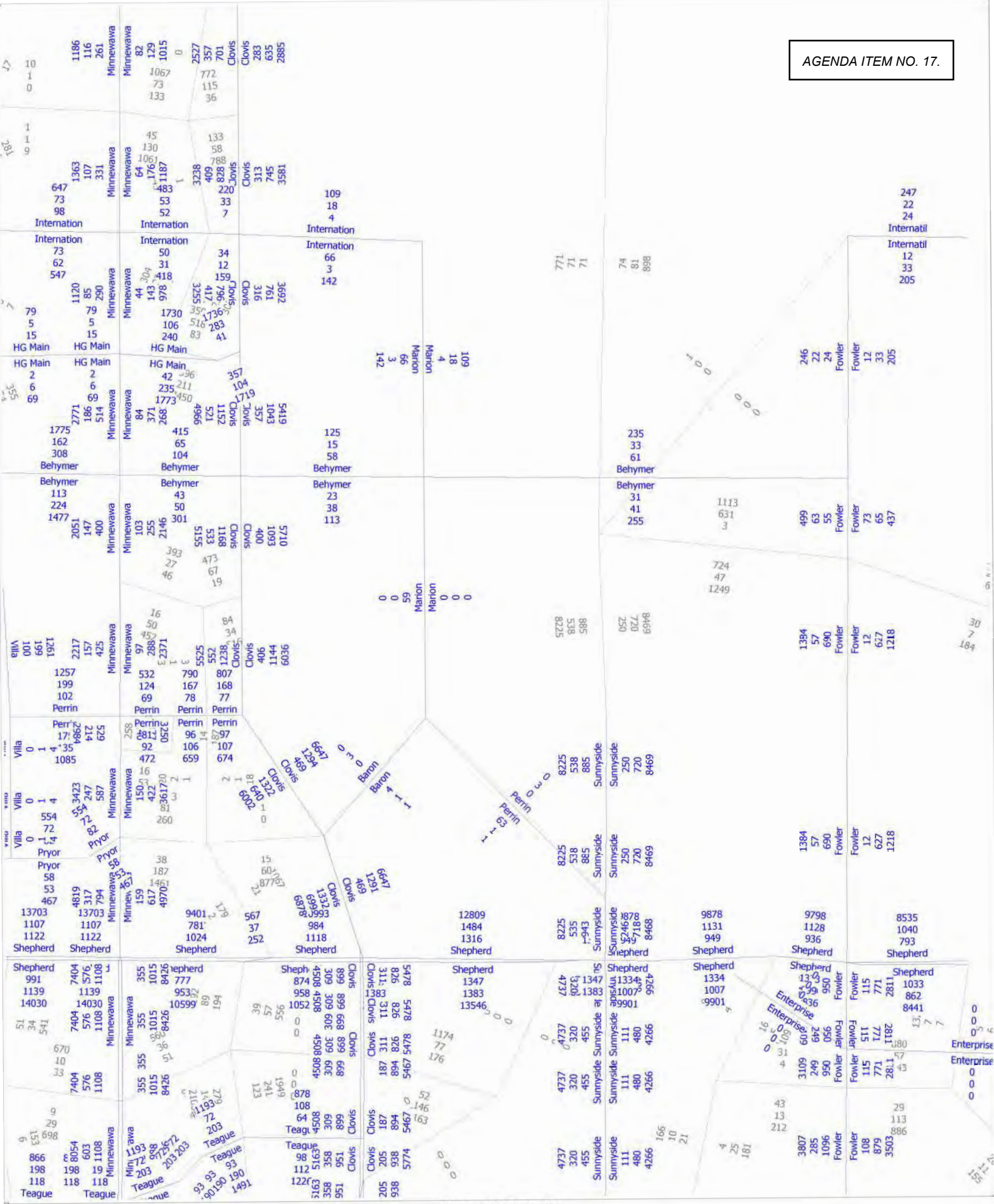


Clovis and Perrin TIA
Cumulative Year 2046 plus Project
AM, PM and Dialy Volumes



cube
(Licensed to JLB Traffic Engineering, Inc)

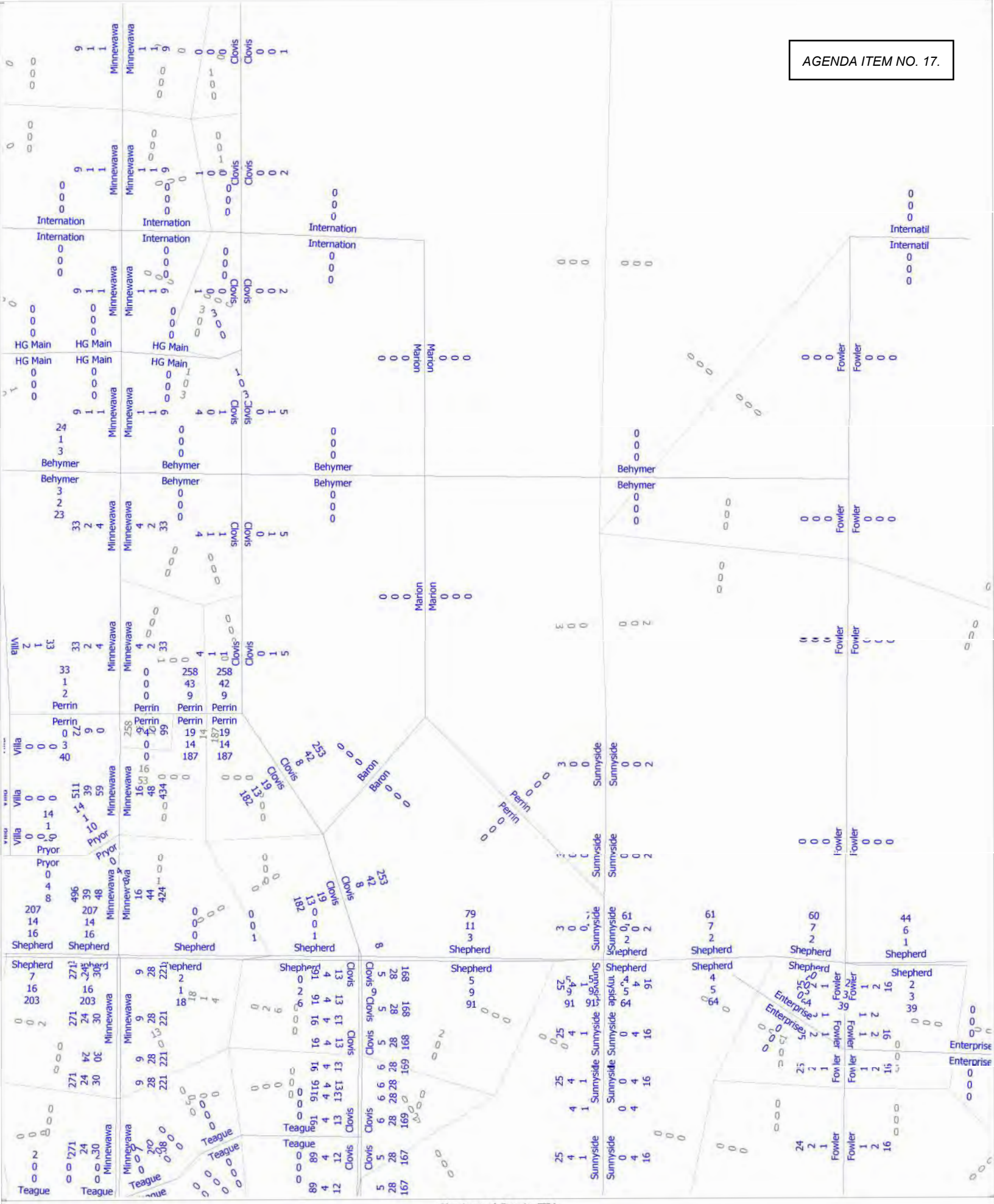
AGENDA ITEM NO. 17.




Clovis and Perrin TIA
Cumulative Year 2046 plus Project
AM, PM and Dialy Volumes

3236

(Licensed to JLB Traffic Engineering, Inc)




Clovis and Perrin TIA
Cumulative Year 2046 plus Project - Select Zone
AM, PM and Dialy Volumes



cube
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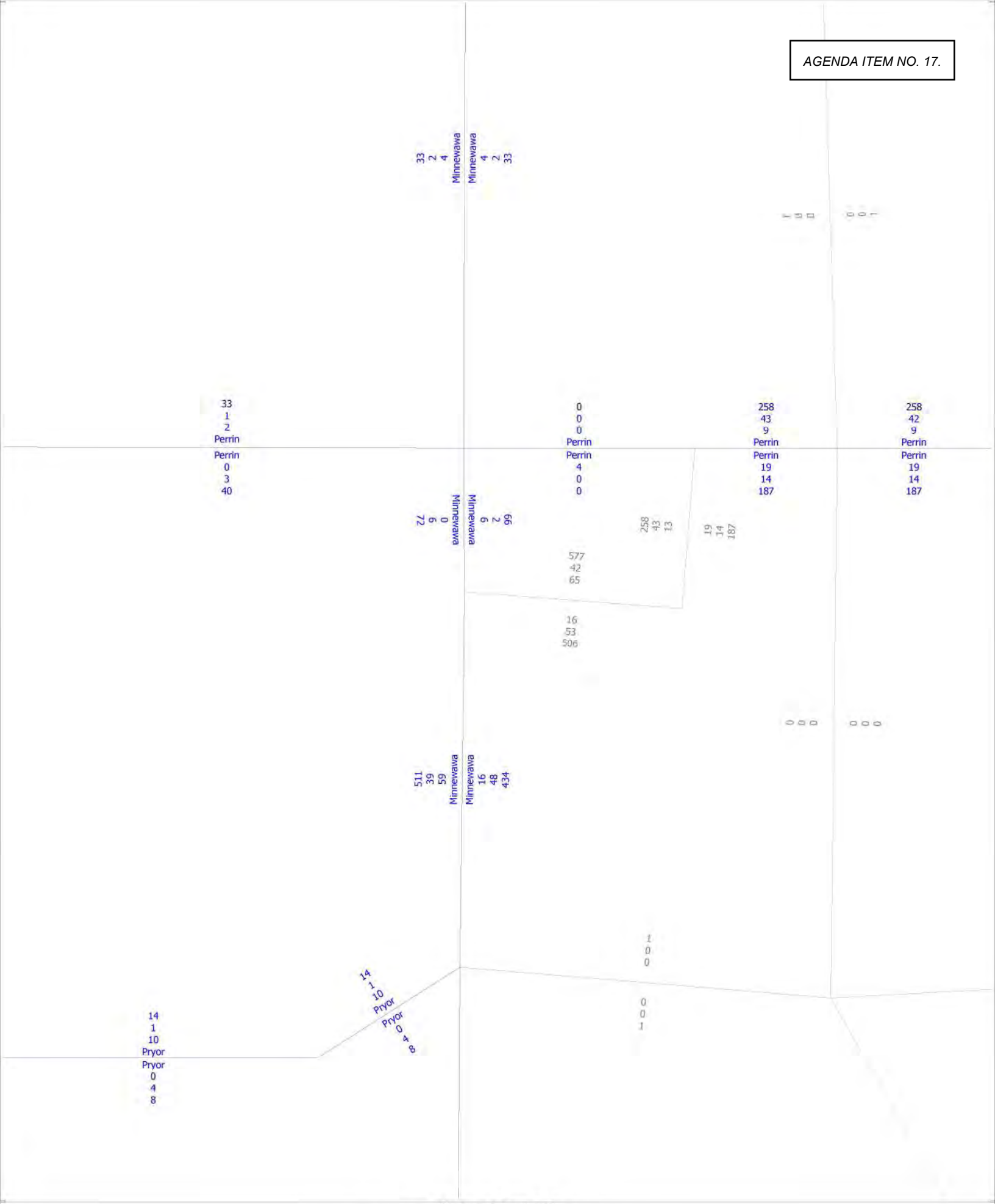


Clovis and Perrin TIA
Cumulative Year 2046 plus Project - Select Zone
AM, PM and Dialy Volumes



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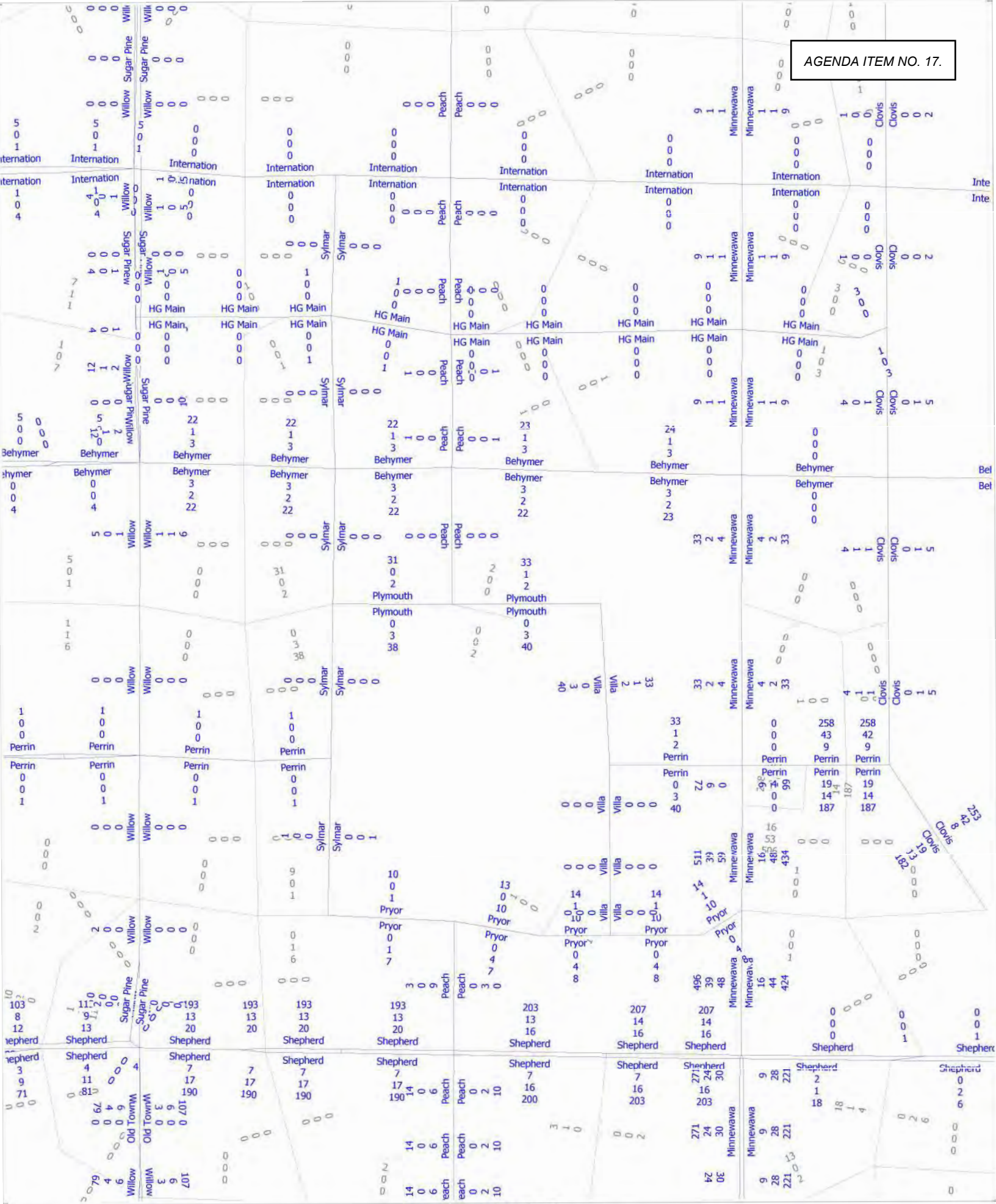
AGENDA ITEM NO. 17.




Clovis and Perrin TIA
Cumulative Year 2046 plus Project - Select Zone
AM, PM and Dialy Volumes

3239

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# Appendix D: Methodology

# Levels of Service Methodology

The description and procedures for calculating capacity and level of service (LOS) are found in the Transportation Research Board, Highway Capacity Manual (HCM). The HCM 7th Edition represents the research on capacity and quality of service for transportation facilities.

Quality of service requires quantitative measures to characterize operational conditions within a traffic stream. Level of service is a quality measure describing operational conditions within a traffic stream, generally in terms of such service measures as speed and travel time, freedom to maneuver, traffic interruptions, comfort and convenience.

Six levels of service are defined for each type of facility that has analysis procedures available. Letters designate each level of service (LOS), from A to F, with LOS A representing the best operating conditions and LOS F the worst. Each LOS represents a range of operating conditions and the driver's perception of these conditions. Safety is not included in the measures that establish an LOS.

## Intersection Levels of Service

One of the more important elements limiting and often interrupting the flow of traffic on a highway is the intersection. Flow on an interrupted facility is usually dominated by points of fixed operation such as traffic signals, stop signs and yield signs.

### *Signalized Intersections*

LOS can be characterized for the entire intersection, each intersection approach and each lane group. Control delay alone is used to characterize LOS for the entire intersection or an approach. Control delay and volume-to-capacity ratio are used to characterize LOS for a lane group. Delay quantifies the increase in travel time due to traffic signal control. It is also a surrogate measure of driver discomfort and fuel consumption. The volume-to-capacity ratio quantifies the degree to which a phase's capacity is utilized by a lane group. A description of LOS for signalized intersections is found in Table A-1.

**Table A-1: Signalized Intersection LOS Description (Motorized Vehicle Mode)**

| *Level of Service* | *Description* | *Average Control Delay (Seconds per Vehicle)* |
|---|---|---|
| A | Operations with a control delay of 10 seconds/vehicle or less and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is really low and either progression is exceptionally favorable or the cycle length is very short. If it's due to favorable progression, most vehicles arrive during the green indication and travel through the intersection without stopping. | ≤10 |
| B | Operations with control delay between 10.1 to 20.0 seconds/vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is highly favorable or the cycle length is short. More vehicles stop than with LOS A. | >10.0 to 20.0 |
| C | Operations with average control delays between 20.1 to 35.0 seconds/vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio no greater than 1.0, the progression is favorable or the cycle length is moderate. Individual cycle failures (i.e., one or more queued vehicles are not able to depart as a result of insufficient capacity during the cycle) may begin to appear at this level. The number of vehicles stopping is significant, although many vehicles still pass through the intersection without stopping. | >20 to 35 |
| D | Operations with control delay between 35.1 to 55.0 seconds/vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is high and either progression is ineffective or the cycle length is long. Many vehicles stop and individual cycle failures are noticeable. | >35 to 55 |
| E | Operations with control delay between 55.1 to 80.0 seconds/vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is high, progression is unfavorable and the cycle length is long. Individual cycle failures are frequent. | >55 to 80 |
| F | Operations with unacceptable control delay exceeding 80.0 seconds/vehicle and a volume-to-capacity ratio greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is very high, progression is very poor and the cycle length is long. Most cycles fail to clear the queue. | >80 |

Note: Source: Highway Capacity Manual 7th Edition

## *All-Way Stop Controlled Intersections*

All-way stop controlled intersections are common in the United States. They are characterized by having all approaches controlled by stop sign without any street having priority. Streets intersecting at all-way stop controlled intersections can be public or private. The intersection analysis boundaries for an all-way stop controlled intersection are assumed to be those of an isolated intersection, no upstream or downstream effects are accounted for in analysis.

## *Two-Way Stop Controlled Intersections*

Two-way stop controlled (TWSC) intersections are also common in the United States. A typical configuration is a four-leg intersection in which one street, the major street, is uncontrolled and the other street, the minor street, is controlled by stop signs. The other typical intersection is a three-leg intersection in which a single minor street approach is controlled by a stop sign.

For the analysis of the motorized vehicle mode, the methodology addresses special circumstances that may exist at two-way stop controlled intersections including two-stage gap acceptance, approaches with shared lanes, the presence of upstream traffic signals and flared approaches for minor-street right-turning vehicles. Table A-2 provides a description of LOS at unsignalized intersections.

### Table A-2: Unsignalized Intersection LOS Description (Motorized Vehicle Mode)

| ***Control Delay (Seconds per Vehicle)*** | ***LOS by Volume-to-Capacity Ratio*** | |
|---|---|---|
| | ***v/c ≤ 1.0*** | ***v/c > 1.0*** |
| ≤10 | A | F |
| >10 to 15 | B | F |
| >15 to 25 | C | F |
| >25 to 35 | D | F |
| >35 to 50 | E | F |
| >50 | F | F |

Note: Source: HCM 7th Edition, Exhibit 21-8.

## *Roundabout Controlled Intersections*

Roundabouts are intersections with a generally circular shape, characterized by yield on entry and circulation around a central island. Roundabouts have been used successfully throughout the world and are being used increasingly in the United States, especially since 1990. Intersection analysis models generally fall into two categories: regression models and analytical models. Regression models use field data to develop statistically derived relationships between geometric features and performance measures such as capacity and delay. Analytical models are based on traffic flow theory combined with field measures of driver behavior, resulting in an analytical formulation of the relationship of driver behavior, resulting in an analytical formulation of the relationship between those field measures and performance measures such as capacity and delay. Table A-3 provides a description of LOS at roundabout intersections.

### Table A-3: Roundabout Intersection Level of Service Description (Automobile Mode)

| ***Control Delay (Seconds per Vehicle)*** | ***LOS by Volume-to-Capacity Ratio*** | |
|---|---|---|
| | ***v/c ≤ 1.0*** | ***v/c > 1.0*** |
| ≤10 | A | F |
| >10 to 15 | B | F |
| >15 to 25 | C | F |
| >25 to 35 | D | F |
| >35 to 50 | E | F |
| >50 | F | F |

Note: Source: HCM 7th Edition, Exhibit 22-8.

## Segment Levels of Service

Segments are portions of roads without any interruption of flow. These typically include basic freeway segments, multilane highway segments, freeway weaving segments, freeway merge and diverge segments, two-lane highway segments and urban street segments.

### *Urban Street Segments (Motorized Vehicle Mode)*

The term “urban street segments” refers to two elements that are found: points and segments. A point is the boundary between links and is represented by an intersection or ramp terminal. A link is a length of roadway between two points. A link and its boundary are referred to as a segment. A signalized intersection is always used to define a boundary. Only intersections, or ramp terminals, in which the segment through volumes is uncontrolled can exist along the segment. A midsegment traffic control signal provided for the exclusive use of pedestrians should not be used to define a segment boundary. Chapter 18 of the Highway Capacity Manual categorizes each LOS as follows:

**LOS A** describes primarily free-flow operation. Vehicles are completely unimpeded in their ability to maneuver within the traffic stream. Control delay at signalized intersections is minimal. Travel speeds exceed 80 percent of the base free flow speed (FFS) and the volume-to-capacity ratio is no greater than 1.0.

**LOS B** describes reasonably unimpeded operation. The ability to maneuver within the traffic stream is only slightly restricted and control delay at the boundary intersections is not significant. The travel speed is between 67 and 80 percent of the base FFS and the volume-to-capacity ratio is no greater than 1.0.

**LOS C** describes stable operations. The ability to maneuver and change lanes in midblock location may be more restricted than at LOS B. Longer queues at the boundary intersections may contribute to lower travel speeds. The travel speed is between 50 and 67 percent of the base FFS and the volume-to-capacity ratio is no greater than 1.0.

**LOS D** indicates a less stable condition in which small increases in flow may cause substantial increases in delay and decreases in travel speed. This operation may be due to adverse signal progression, high volumes or inappropriate signal timing at the boundary intersections. The travel speed is between 40 and 50 percent of the base FFS and the volume-to-capacity ratio is no greater than 1.0.

**LOS E** is characterized as an unstable operation and has significant delay. Such operations may be due to some combination of adverse progression, high volume and inappropriate signal timing at the boundary intersections. The travel speed is between 30 and 40 percent of the base FFS and the volume-to-capacity ratio is no greater than 1.0.

**LOS F** is characterized by flow at extremely low speed. Congestion is likely occurring at the boundary intersections, as indicated by high delay and extensive queuing. The travel speed is 30 percent or less of the base FFS or the volume-to-capacity ratio is greater than 1.0.

***Urban Street Segments LOS***

Two performance measures are used to characterize vehicular LOS for a given direction of travel along an urban street segment. One measure is travel speed for through vehicles. This speed reflects the factors that influence running time along the link and the delay uncured by through vehicles at the boundary intersections. The second measures Is the volume-to-capacity ratio for the through movements at the downstream boundary intersection. These performance measures indicate the degree of mobility provided by the segment. Table A-4 provides a description of LOS for Urban Street Segments.

**Table A-4: Urban Street Segment Levels of Service (Motorized Vehicle Mode)**

| *LOS* | *Travel Speed Threshold by Base Free-Flow Speed (miles/hour)* | | | | | | | *Volume-to-Capacity Ratio* |
|---|---|---|---|---|---|---|---|---|
| | **55** | **50** | **45** | **40** | **35** | **30** | **25** | |
| A | >44 | >40 | >36 | >32 | >28 | >24 | >20 | ≤ 1.0 |
| B | >37 | >34 | >30 | >27 | >23 | >20 | >17 | |
| C | >28 | >25 | >23 | >20 | >18 | >15 | >13 | |
| D | >22 | >20 | >18 | >16 | >14 | >12 | >10 | |
| E | >17 | >15 | >14 | >12 | >11 | >9 | >8 | |
| F | ≤17 | ≤15 | ≤14 | ≤12 | ≤11 | ≤9 | ≤8 | |
| F | Any | | | | | | | > 1.0 |

Note: a = Volume-to-capacity ratio of through movement at downstream boundary intersection.
Source: Highway Capacity Manual 7th Edition, Exhibit 18-1.

## *Basic Freeway and Multilane Highway Segments*

Segments of multilane highways and basic freeways outside the influence of merging maneuvers, diverging maneuvers, weaving maneuvers, or signalized intersections define LOS by density. Density describes a motorist's proximity to other vehicles and is related to a motorist's freedom to maneuver within the traffic stream. Chapter 12 of the Highway Capacity Manual categorizes each LOS as follows:

**LOS A** describes free-flow operations. FFS prevails on the freeway or multilane highway, and vehicles are almost completely unimpeded in their ability to maneuver within the traffic stream. The effects of incidents or point breakdowns are easily absorbed.

**LOS B** represents reasonably free-flow operations, and FFS on the freeway or multilane highway is maintained. The ability to maneuver within the traffic stream is only slightly restricted, and the general level of physical and psychological comfort provided to drivers is still high. The effects of minor incidents are still easily absorbed.

**LOS C** provides for flow with speeds near the FFS of the freeway or multilane highway. Freedom to maneuver within the traffic stream is noticeably restricted, and lane changes require more care and vigilance on the part of the driver. Minor incidents may still be absorbed, but the local deterioration in service quality will be significant. Queues may be expected to form behind any significant blockages.

**LOS D** is the level at which speeds begin to decline with increasing flows, with density increasing more quickly. Freedom to maneuver within the traffic stream is seriously limited, and drivers experience reduced physical and psychological comfort levels. Even minor incidents can be expected to create queuing, because the traffic stream has little space to absorb disruptions.

**LOS E** describes operation at or near capacity. Operations on the freeway or multilane highway at this level are highly volatile because there are virtually no usable gaps within the traffic stream, leaving little room to maneuver within the traffic stream. Any disruption to the traffic stream, such as vehicles entering from a ramp or an access point or a vehicle changing lanes, can establish a disruption wave that propagates throughout the upstream traffic stream. Toward the upper boundary of LOS E, the traffic stream has no ability to dissipate even the most minor disruption, and any incident can be expected to produce a serious breakdown and substantial queuing. The physical and psychological comfort afforded to drivers is poor.

**LOS F** describes unstable flow. Such conditions exist within queues forming behind bottlenecks. Breakdowns occur for a number of reasons:

- Traffic incidents can temporarily reduce the capacity of a short segment so that the number of vehicles arriving at a point is greater than the number of vehicles that can move through it.
- Points of recurring congestion, such as merge or weaving segments and lane drops, experience very high demand in which the number of vehicles arriving is greater than the number of vehicles that can be discharged.
- In analyses using forecast volumes, the projected flow rate can exceed the estimated capacity of a given location.

***Basic Freeway***

Basic Freeway segments generally have four to eight lanes (in both directions) and posted speed limits between 50 and 75 mi/hr. The median type depends on right-of-way constraints and other factors. The performance measures include capacity, free flow speed, demand and volume-to-capacity ratio, space mean speed, average density and LOS. The following performance measures are evaluated for each segment: capacity, FFS, demand-to-capacity or volume-to-capacity ratios, space mean average, average density, travel time, vehicle miles traveled, vehicle hours of travel and vehicle hours of delay. Table A-5 provides a description of LOS for Basic Freeway Segments.

***Multilane Highway***

Multilane Highway segments generally have four to six lanes (in both directions) and posted speed limits between 40 and 55 mi/hr. These highways may be divided, undivided or divided by a two-way left-turn lane. The performance measures include capacity, free flow speed, demand and volume-to-capacity ratio, space mean speed, average density and LOS. The following performance measures are evaluated for each segment: capacity, FFS, demand-to-capacity or volume-to-capacity ratios, space mean average, average density, travel time, vehicle miles traveled, vehicle hours of travel and vehicle hours of delay. Table A-5 provides a description of LOS for Multilane Highway Segments.

**Table A-5: Basic Freeway and Multilane Highway Segment Level of Service Description**

| *Level of Service* | *Density (Passenger Cars per Mile per Lane)* | |
|---|---|---|
| | *Urban* | *Rural* |
| A | ≤11 | ≤6 |
| B | >11 to 18 | >6 to 14 |
| C | >18 to 26 | >14 to 22 |
| D | >26 to 35 | >22 to 29 |
| E | >35 to 45 | >29 to 39 |
| F | >45 or Demand Exceeds Capacity | >39 or Demand Exceeds Capacity |

Note: Source: HCM 7th Edition, Exhibit 10-6.

## *Two-Lane Highway Segments*

Two-Lane Highways generally have one lane per direction. The single lane in each direction may be supplemented with passing lanes, truck climbing lanes, turnouts or pullouts. If allowed, passing maneuvers are limited by the availability of gaps in the opposing traffic stream and by the availability of sufficient sight distance for a driver to discern the approach of an opposing vehicle safely. A principal measure of LOS is average speed, percent followers and follower density. Chapter 15 of the Highway Capacity Manual categorizes each LOS as follows:

At **LOS A**, motorists experience operating speeds near the posted speed limit and little difficulty in passing. Platooning is minimal and follower density is very low.

At **LOS B through LOS D,** represent gradations between the conditions for LOS A and LOS E.

At **LOS E**, speeds may still be reasonable, but platooning is significant and follower density is high. Passing, if allowed is essentially impossible.

**LOS F** exists whenever demand flow in one or both directions exceeds the segment s capacity. When demand exceeds capacity, it is expected that there will be a reduction in the capacity at the bottleneck.

***Two-Lane Highway***

The performance measures include average speed, FFS and follower density. The LOS output is calculated for an establish segment boundary that includes consistent terrain, lane widths, shoulder widths, facility classification and demand flow rate. Table A-6 provides a description of LOS for Two-Lane Highway Segments.

**Table A-6: Two-Lane Highway Segment Level of Service Description**

| *LOS* | *Follower Density (Followers per Mile per Lane)* | |
|---|---|---|
| | *Higher-Speed Highways Posted Speed Limit ≥ 50 miles per hour* | *Lower-Speed Highways Posted Speed Limit < 50 miles per hour* |
| A | ≤2.0 | ≤2.5 |
| B | >2.0 to 4.0 | >2.5 to 5.0 |
| C | >4.0 to 8.0 | >5.0 to 10.0 |
| D | >8.0 to 12.0 | >10.0 to 15.0 |
| E | >12.0 | >15.0 |

Note: Source: HCM 7th Edition, Exhibit 15-6.

# Appendix E: Existing Traffic Conditions

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 39.5 |
| Intersection LOS | E |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 2 | 150 | 68 | 5 | 198 | 244 | 102 | 222 | 7 | 133 | 225 | 1 |
| Future Vol, veh/h | 2 | 150 | 68 | 5 | 198 | 244 | 102 | 222 | 7 | 133 | 225 | 1 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 2 | 155 | 70 | 5 | 204 | 252 | 105 | 229 | 7 | 137 | 232 | 1 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 20.5 | 53.6 | 33.5 | 39.2 |
| HCM LOS | C | F | D | E |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 31% | 1% | 1% | 37% |
| Vol Thru, % | 67% | 68% | 44% | 63% |
| Vol Right, % | 2% | 31% | 55% | 0% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 331 | 220 | 447 | 359 |
| LT Vol | 102 | 2 | 5 | 133 |
| Through Vol | 222 | 150 | 198 | 225 |
| RT Vol | 7 | 68 | 244 | 1 |
| Lane Flow Rate | 341 | 227 | 461 | 370 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.77 | 0.529 | 0.935 | 0.826 |
| Departure Headway (Hd) | 8.119 | 8.399 | 7.436 | 8.034 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 447 | 429 | 493 | 452 |
| Service Time | 6.138 | 6.45 | 5.436 | 6.054 |
| HCM Lane V/C Ratio | 0.763 | 0.529 | 0.935 | 0.819 |
| HCM Control Delay, s/veh | 33.5 | 20.5 | 53.6 | 39.2 |
| HCM Lane LOS | D | C | F | E |
| HCM 95th-tile Q | 6.6 | 3 | 11.2 | 7.9 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.3 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 0 | 7 | 2 | 0 | 1 | 5 | 364 | 5 | 1 | 321 | 1 |
| Future Vol, veh/h | 1 | 0 | 7 | 2 | 0 | 1 | 5 | 364 | 5 | 1 | 321 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 1 | 0 | 7 | 2 | 0 | 1 | 5 | 387 | 5 | 1 | 341 | 1 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 742 | 747 | 342 | 744 | 745 | 390 | 343 | 0 | 0 | 393 | 0 | 0 |
| Stage 1 | 344 | 344 | - | 401 | 401 | - | - | - | - | - | - | - |
| Stage 2 | 398 | 403 | - | 344 | 345 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.13 | 6.53 | 6.23 | 7.13 | 6.53 | 6.23 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 4.027 | 3.327 | 3.527 | 4.027 | 3.327 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 330 | 340 | 698 | 329 | 341 | 656 | 1211 | - | - | 1161 | - | - |
| Stage 1 | 669 | 635 | - | 624 | 599 | - | - | - | - | - | - | - |
| Stage 2 | 626 | 598 | - | 670 | 634 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 328 | 338 | 698 | 324 | 339 | 656 | 1211 | - | - | 1161 | - | - |
| Mov Cap-2 Maneuver | 328 | 338 | - | 324 | 339 | - | - | - | - | - | - | - |
| Stage 1 | 668 | 634 | - | 620 | 596 | - | - | - | - | - | - | - |
| Stage 2 | 621 | 595 | - | 662 | 634 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 10.97 | 14.32 | 0.11 | 0.03 |
| HCM LOS | B | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 24 | - | - | 612 | 389 | 6 | - | - |
| HCM Lane V/C Ratio | 0.004 | - | - | 0.014 | 0.008 | 0.001 | - | - |
| HCM Control Delay (s/veh) | 8 | 0 | - | 11 | 14.3 | 8.1 | 0 | - |
| HCM Lane LOS | A | A | - | B | B | A | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | 0 | 0 | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 2.1 |

| Movement | EBU | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Vol, veh/h | 0 | 488 | 98 | 86 | 470 | 26 | 79 |
| Future Vol, veh/h | 0 | 488 | 98 | 86 | 470 | 26 | 79 |
| Conflicting Peds, #/hr | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | - | None | - | None | - | None |
| Storage Length | 250 | - | 100 | 250 | - | 220 | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | 0 | - |
| Grade, % | - | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 88 | 88 | 88 | 88 | 88 | 88 | 88 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 0 | 555 | 111 | 98 | 534 | 30 | 90 |

| Major/Minor | Major1 | | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|---|
| Conflicting Flow All | - | 0 | 0 | 667 | 0 | 1285 | 278 |
| Stage 1 | - | - | - | - | - | 556 | - |
| Stage 2 | - | - | - | - | - | 730 | - |
| Critical Hdwy | - | - | - | 4.145 | - | 6.645 | 6.945 |
| Critical Hdwy Stg 1 | - | - | - | - | - | 5.845 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | 5.445 | - |
| Follow-up Hdwy | - | - | - | 2.2285 | - | 3.5285 | 3.3285 |
| Pot Cap-1 Maneuver | - | - | - | 915 | - | 167 | 717 |
| Stage 1 | - | - | - | - | - | 537 | - |
| Stage 2 | - | - | - | - | - | 474 | - |
| Platoon blocked, % | | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | 914 | - | 149 | 716 |
| Mov Cap-2 Maneuver | - | - | - | - | - | 149 | - |
| Stage 1 | - | - | - | - | - | 536 | - |
| Stage 2 | - | - | - | - | - | 423 | - |

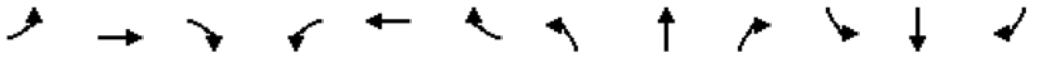
| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 1.46 | 16.74 |
| HCM LOS | | | C |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBU | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 149 | 716 | - | - | - | 914 | - |
| HCM Lane V/C Ratio | 0.198 | 0.125 | - | - | - | 0.107 | - |
| HCM Control Delay (s/veh) | 35 | 10.7 | 0 | - | - | 9.4 | - |
| HCM Lane LOS | D | B | A | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.7 | 0.4 | - | - | - | 0.4 | - |

# HCM 7th Signalized Intersection Summary
## 6: Minnewawa Avenue & Shepherd Avenue

Exis

04/08/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 21 | 416 | 111 | 112 | 533 | 161 | 129 | 146 | 39 | 114 | 165 | 19 |
| Future Volume (veh/h) | 21 | 416 | 111 | 112 | 533 | 161 | 129 | 146 | 39 | 114 | 165 | 19 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 22 | 443 | 118 | 119 | 567 | 171 | 137 | 155 | 41 | 121 | 176 | 20 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 71 | 1050 | 468 | 198 | 687 | 582 | 207 | 263 | 223 | 199 | 255 | 216 |
| Arrive On Green | 0.04 | 0.30 | 0.30 | 0.11 | 0.37 | 0.37 | 0.12 | 0.14 | 0.14 | 0.11 | 0.14 | 0.14 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 22 | 443 | 118 | 119 | 567 | 171 | 137 | 155 | 41 | 121 | 176 | 20 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 0.7 | 6.0 | 3.4 | 3.8 | 16.6 | 4.6 | 4.4 | 4.7 | 1.4 | 3.9 | 5.4 | 0.7 |
| Cycle Q Clear(g_c), s | 0.7 | 6.0 | 3.4 | 3.8 | 16.6 | 4.6 | 4.4 | 4.7 | 1.4 | 3.9 | 5.4 | 0.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 71 | 1050 | 468 | 198 | 687 | 582 | 207 | 263 | 223 | 199 | 255 | 216 |
| V/C Ratio(X) | 0.31 | 0.42 | 0.25 | 0.60 | 0.83 | 0.29 | 0.66 | 0.59 | 0.18 | 0.61 | 0.69 | 0.09 |
| Avail Cap(c_a), veh/h | 230 | 2078 | 927 | 260 | 1124 | 953 | 260 | 1044 | 885 | 230 | 991 | 840 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 28.0 | 16.9 | 16.0 | 25.3 | 17.1 | 13.3 | 25.3 | 24.1 | 22.7 | 25.3 | 24.6 | 22.6 |
| Incr Delay (d2), s/veh | 2.5 | 0.3 | 0.3 | 2.9 | 2.7 | 0.3 | 4.3 | 2.1 | 0.4 | 3.5 | 3.3 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 2.0 | 1.0 | 1.6 | 6.0 | 1.3 | 1.9 | 2.0 | 0.5 | 1.6 | 2.2 | 0.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 30.4 | 17.2 | 16.2 | 28.2 | 19.8 | 13.6 | 29.6 | 26.2 | 23.1 | 28.8 | 27.9 | 22.7 |
| LnGrp LOS | C | B | B | C | B | B | C | C | C | C | C | C |
| Approach Vol, veh/h | | 583 | | | 857 | | | 333 | | | 317 | |
| Approach Delay, s/veh | | 17.5 | | | 19.7 | | | 27.2 | | | 27.9 | |
| Approach LOS | | B | | | B | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 11.0 | 14.5 | 10.9 | 23.5 | 11.2 | 14.2 | 6.6 | 27.9 |
| Change Period (Y+Rc), s | 4.2 | * 6 | 4.2 | 5.7 | 4.2 | 6.0 | 4.2 | 5.7 |
| Max Green Setting (Gmax), s | 7.8 | * 34 | 8.8 | 35.3 | 8.8 | 32.0 | 7.8 | 36.3 |
| Max Q Clear Time (g_c+I1), s | 5.9 | 6.7 | 5.8 | 8.0 | 6.4 | 7.4 | 2.7 | 18.6 |
| Green Ext Time (p_c), s | 0.0 | 0.9 | 0.1 | 3.0 | 0.1 | 0.8 | 0.0 | 3.6 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 21.5 |
| HCM 7th LOS | C |

**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

# HCM 7th Signalized Intersection Summary
## 7: Clovis Avenue & Shepherd Avenue

Exis

04/08/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 50 | 367 | 148 | 100 | 580 | 6 | 163 | 38 | 41 | 21 | 38 | 27 |
| Future Volume (veh/h) | 50 | 367 | 148 | 100 | 580 | 6 | 163 | 38 | 41 | 21 | 38 | 27 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 56 | 412 | 166 | 112 | 652 | 7 | 183 | 43 | 46 | 24 | 43 | 30 |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 282 | 852 | 380 | 404 | 978 | 436 | 240 | 833 | 371 | 150 | 509 | 226 |
| Arrive On Green | 0.08 | 0.24 | 0.24 | 0.12 | 0.28 | 0.28 | 0.14 | 0.24 | 0.24 | 0.04 | 0.14 | 0.14 |
| Sat Flow, veh/h | 3428 | 3526 | 1572 | 3428 | 3526 | 1572 | 1767 | 3526 | 1572 | 3428 | 3526 | 1566 |
| Grp Volume(v), veh/h | 56 | 412 | 166 | 112 | 652 | 7 | 183 | 43 | 46 | 24 | 43 | 30 |
| Grp Sat Flow(s),veh/h/ln | 1714 | 1763 | 1572 | 1714 | 1763 | 1572 | 1767 | 1763 | 1572 | 1714 | 1763 | 1566 |
| Q Serve(g_s), s | 0.8 | 5.4 | 4.8 | 1.6 | 8.8 | 0.2 | 5.4 | 0.5 | 1.2 | 0.4 | 0.6 | 0.9 |
| Cycle Q Clear(g_c), s | 0.8 | 5.4 | 4.8 | 1.6 | 8.8 | 0.2 | 5.4 | 0.5 | 1.2 | 0.4 | 0.6 | 0.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 282 | 852 | 380 | 404 | 978 | 436 | 240 | 833 | 371 | 150 | 509 | 226 |
| V/C Ratio(X) | 0.20 | 0.48 | 0.44 | 0.28 | 0.67 | 0.02 | 0.76 | 0.05 | 0.12 | 0.16 | 0.08 | 0.13 |
| Avail Cap(c_a), veh/h | 497 | 2424 | 1081 | 497 | 2424 | 1081 | 289 | 2490 | 1111 | 497 | 2424 | 1077 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 23.0 | 17.5 | 17.3 | 21.6 | 17.2 | 14.1 | 22.4 | 15.9 | 16.2 | 24.8 | 19.9 | 20.1 |
| Incr Delay (d2), s/veh | 0.3 | 0.4 | 0.8 | 0.4 | 0.8 | 0.0 | 9.5 | 0.0 | 0.1 | 0.5 | 0.1 | 0.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 1.8 | 1.5 | 0.6 | 2.9 | 0.1 | 2.5 | 0.2 | 0.4 | 0.1 | 0.2 | 0.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 23.4 | 17.9 | 18.1 | 22.0 | 18.0 | 14.1 | 31.9 | 15.9 | 16.3 | 25.3 | 20.0 | 20.3 |
| LnGrp LOS | C | B | B | C | B | B | C | B | B | C | C | C |
| Approach Vol, veh/h | | 634 | | | 771 | | | 272 | | | 97 | |
| Approach Delay, s/veh | | 18.5 | | | 18.6 | | | 26.7 | | | 21.4 | |
| Approach LOS | | B | | | B | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 6.6 | 18.0 | 10.5 | 18.7 | 11.5 | 13.1 | 8.6 | 20.6 |
| Change Period (Y+Rc), s | 4.2 | 5.3 | 4.2 | 5.7 | 4.2 | 5.3 | 4.2 | 5.7 |
| Max Green Setting (Gmax), s | 7.8 | 38.0 | 7.8 | 37.0 | 8.8 | 37.0 | 7.8 | 37.0 |
| Max Q Clear Time (g_c+I1), s | 2.4 | 3.2 | 3.6 | 7.4 | 7.4 | 2.9 | 2.8 | 10.8 |
| Green Ext Time (p_c), s | 0.0 | 0.3 | 0.1 | 3.0 | 0.1 | 0.3 | 0.0 | 4.1 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 19.9 |
| HCM 7th LOS | B |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 55.9 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 3 | 184 | 50 | 3 | 173 | 191 | 67 | 214 | 14 | 164 | 193 | 6 |
| Future Vol, veh/h | 3 | 184 | 50 | 3 | 173 | 191 | 67 | 214 | 14 | 164 | 193 | 6 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 3 | 211 | 57 | 3 | 199 | 220 | 77 | 246 | 16 | 189 | 222 | 7 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 30.1 | 65.2 | 43.4 | 73.5 |
| HCM LOS | D | F | E | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 23% | 1% | 1% | 45% |
| Vol Thru, % | 73% | 78% | 47% | 53% |
| Vol Right, % | 5% | 21% | 52% | 2% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 295 | 237 | 367 | 363 |
| LT Vol | 67 | 3 | 3 | 164 |
| Through Vol | 214 | 184 | 173 | 193 |
| RT Vol | 14 | 50 | 191 | 6 |
| Lane Flow Rate | 339 | 272 | 422 | 417 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.833 | 0.687 | 0.97 | 0.998 |
| Departure Headway (Hd) | 8.947 | 9.193 | 8.274 | 8.611 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 407 | 395 | 439 | 421 |
| Service Time | 6.947 | 7.193 | 6.312 | 6.651 |
| HCM Lane V/C Ratio | 0.833 | 0.689 | 0.961 | 0.99 |
| HCM Control Delay, s/veh | 43.4 | 30.1 | 65.2 | 73.5 |
| HCM Lane LOS | E | D | F | F |
| HCM 95th-tile Q | 7.8 | 5 | 11.8 | 12.4 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.3 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 0 | 1 | 9 | 1 | 2 | 2 | 417 | 6 | 1 | 268 | 0 |
| Future Vol, veh/h | 1 | 0 | 1 | 9 | 1 | 2 | 2 | 417 | 6 | 1 | 268 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 1 | 0 | 1 | 10 | 1 | 2 | 2 | 474 | 7 | 1 | 305 | 0 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 786 | 792 | 305 | 789 | 789 | 477 | 305 | 0 | 0 | 481 | 0 | 0 |
| Stage 1 | 307 | 307 | - | 482 | 482 | - | - | - | - | - | - | - |
| Stage 2 | 479 | 485 | - | 307 | 307 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.13 | 6.53 | 6.23 | 7.13 | 6.53 | 6.23 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 4.027 | 3.327 | 3.527 | 4.027 | 3.327 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 309 | 320 | 733 | 307 | 322 | 586 | 1251 | - | - | 1077 | - | - |
| Stage 1 | 701 | 659 | - | 564 | 552 | - | - | - | - | - | - | - |
| Stage 2 | 566 | 550 | - | 701 | 659 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 305 | 319 | 733 | 306 | 321 | 586 | 1251 | - | - | 1077 | - | - |
| Mov Cap-2 Maneuver | 305 | 319 | - | 306 | 321 | - | - | - | - | - | - | - |
| Stage 1 | 700 | 658 | - | 562 | 550 | - | - | - | - | - | - | - |
| Stage 2 | 561 | 548 | - | 699 | 658 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 13.4 | 16.25 | 0.04 | 0.03 |
| HCM LOS | B | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 8 | - | - | 431 | 334 | 7 | - | - |
| HCM Lane V/C Ratio | 0.002 | - | - | 0.005 | 0.041 | 0.001 | - | - |
| HCM Control Delay (s/veh) | 7.9 | 0 | - | 13.4 | 16.3 | 8.3 | 0 | - |
| HCM Lane LOS | A | A | - | B | C | A | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | 0.1 | 0 | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 2.4 |

| Movement | EBU | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Vol, veh/h | 2 | 669 | 74 | 43 | 448 | 51 | 56 |
| Future Vol, veh/h | 2 | 669 | 74 | 43 | 448 | 51 | 56 |
| Conflicting Peds, #/hr | 0 | 0 | 2 | 2 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | - | None | - | None | - | None |
| Storage Length | 250 | - | 100 | 250 | - | 220 | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | 0 | - |
| Grade, % | - | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 2 | 727 | 80 | 47 | 487 | 55 | 61 |

| Major/Minor | Major1 | | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|---|
| Conflicting Flow All | - | 0 | 0 | 810 | 0 | 1314 | 366 |
| Stage 1 | - | - | - | - | - | 734 | - |
| Stage 2 | - | - | - | - | - | 580 | - |
| Critical Hdwy | - | - | - | 4.145 | - | 6.645 | 6.945 |
| Critical Hdwy Stg 1 | - | - | - | - | - | 5.845 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | 5.445 | - |
| Follow-up Hdwy | - | - | - | 2.2285 | - | 3.5285 | 3.3285 |
| Pot Cap-1 Maneuver | - | - | - | 809 | - | 160 | 630 |
| Stage 1 | - | - | - | - | - | 435 | - |
| Stage 2 | - | - | - | - | - | 556 | - |
| Platoon blocked, % | | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | 807 | - | 151 | 628 |
| Mov Cap-2 Maneuver | - | - | - | - | - | 151 | - |
| Stage 1 | - | - | - | - | - | 434 | - |
| Stage 2 | - | - | - | - | - | 524 | - |

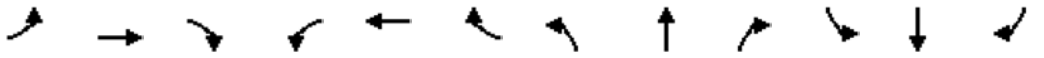
| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | | 0.85 | 26 |
| HCM LOS | | | D |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBU | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 151 | 628 | - | - | - | 807 | - |
| HCM Lane V/C Ratio | 0.367 | 0.097 | - | - | - | 0.058 | - |
| HCM Control Delay (s/veh) | 42.1 | 11.3 | - | - | - | 9.7 | - |
| HCM Lane LOS | E | B | - | - | - | A | - |
| HCM 95th %tile Q(veh) | 1.5 | 0.3 | - | - | - | 0.2 | - |

# HCM 7th Signalized Intersection Summary
## 6: Minnewawa Avenue & Shepherd Avenue

Exis

04/08/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 19 | 484 | 86 | 64 | 447 | 122 | 119 | 161 | 50 | 88 | 166 | 16 |
| Future Volume (veh/h) | 19 | 484 | 86 | 64 | 447 | 122 | 119 | 161 | 50 | 88 | 166 | 16 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 22 | 550 | 98 | 73 | 508 | 139 | 135 | 183 | 57 | 100 | 189 | 18 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 71 | 1007 | 449 | 166 | 629 | 533 | 213 | 296 | 250 | 192 | 273 | 232 |
| Arrive On Green | 0.04 | 0.29 | 0.29 | 0.09 | 0.34 | 0.34 | 0.12 | 0.16 | 0.16 | 0.11 | 0.15 | 0.15 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 22 | 550 | 98 | 73 | 508 | 139 | 135 | 183 | 57 | 100 | 189 | 18 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 0.7 | 7.5 | 2.7 | 2.2 | 14.2 | 3.7 | 4.1 | 5.2 | 1.8 | 3.0 | 5.5 | 0.6 |
| Cycle Q Clear(g_c), s | 0.7 | 7.5 | 2.7 | 2.2 | 14.2 | 3.7 | 4.1 | 5.2 | 1.8 | 3.0 | 5.5 | 0.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 71 | 1007 | 449 | 166 | 629 | 533 | 213 | 296 | 250 | 192 | 273 | 232 |
| V/C Ratio(X) | 0.31 | 0.55 | 0.22 | 0.44 | 0.81 | 0.26 | 0.63 | 0.62 | 0.23 | 0.52 | 0.69 | 0.08 |
| Avail Cap(c_a), veh/h | 242 | 2183 | 974 | 242 | 1149 | 974 | 304 | 1097 | 930 | 273 | 1042 | 883 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 26.6 | 17.2 | 15.5 | 24.4 | 17.1 | 13.7 | 23.9 | 22.3 | 20.9 | 24.0 | 23.1 | 21.0 |
| Incr Delay (d2), s/veh | 2.4 | 0.5 | 0.2 | 1.8 | 2.5 | 0.3 | 3.1 | 2.1 | 0.5 | 2.2 | 3.1 | 0.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 2.5 | 0.8 | 0.9 | 5.1 | 1.1 | 1.7 | 2.2 | 0.6 | 1.2 | 2.2 | 0.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 29.0 | 17.7 | 15.8 | 26.3 | 19.7 | 13.9 | 26.9 | 24.5 | 21.4 | 26.2 | 26.2 | 21.1 |
| LnGrp LOS | C | B | B | C | B | B | C | C | C | C | C | C |
| Approach Vol, veh/h | | 670 | | | 720 | | | 375 | | | 307 | |
| Approach Delay, s/veh | | 17.8 | | | 19.2 | | | 24.9 | | | 25.9 | |
| Approach LOS | | B | | | B | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 10.4 | 15.1 | 9.5 | 22.0 | 11.1 | 14.4 | 6.5 | 25.0 |
| Change Period (Y+Rc), s | 4.2 | * 6 | 4.2 | 5.7 | 4.2 | 6.0 | 4.2 | 5.7 |
| Max Green Setting (Gmax), s | 8.8 | * 34 | 7.8 | 35.3 | 9.8 | 32.0 | 7.8 | 35.3 |
| Max Q Clear Time (g_c+I1), s | 5.0 | 7.2 | 4.2 | 9.5 | 6.1 | 7.5 | 2.7 | 16.2 |
| Green Ext Time (p_c), s | 0.1 | 1.1 | 0.0 | 3.7 | 0.1 | 0.9 | 0.0 | 3.1 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 20.8 |
| HCM 7th LOS | C |

**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

# HCM 7th Signalized Intersection Summary
## 7: Clovis Avenue & Shepherd Avenue

Exis

04/08/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 46 | 423 | 125 | 67 | 423 | 11 | 181 | 51 | 57 | 11 | 22 | 21 |
| Future Volume (veh/h) | 46 | 423 | 125 | 67 | 423 | 11 | 181 | 51 | 57 | 11 | 22 | 21 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 53 | 486 | 144 | 77 | 486 | 13 | 208 | 59 | 66 | 13 | 25 | 24 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 276 | 805 | 359 | 346 | 878 | 392 | 258 | 949 | 423 | 88 | 526 | 234 |
| Arrive On Green | 0.08 | 0.23 | 0.23 | 0.10 | 0.25 | 0.25 | 0.15 | 0.27 | 0.27 | 0.03 | 0.15 | 0.15 |
| Sat Flow, veh/h | 3428 | 3526 | 1572 | 3428 | 3526 | 1572 | 1767 | 3526 | 1571 | 3428 | 3526 | 1569 |
| Grp Volume(v), veh/h | 53 | 486 | 144 | 77 | 486 | 13 | 208 | 59 | 66 | 13 | 25 | 24 |
| Grp Sat Flow(s),veh/h/ln | 1714 | 1763 | 1572 | 1714 | 1763 | 1572 | 1767 | 1763 | 1571 | 1714 | 1763 | 1569 |
| Q Serve(g_s), s | 0.7 | 6.4 | 4.0 | 1.1 | 6.2 | 0.3 | 5.9 | 0.6 | 1.7 | 0.2 | 0.3 | 0.7 |
| Cycle Q Clear(g_c), s | 0.7 | 6.4 | 4.0 | 1.1 | 6.2 | 0.3 | 5.9 | 0.6 | 1.7 | 0.2 | 0.3 | 0.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 276 | 805 | 359 | 346 | 878 | 392 | 258 | 949 | 423 | 88 | 526 | 234 |
| V/C Ratio(X) | 0.19 | 0.60 | 0.40 | 0.22 | 0.55 | 0.03 | 0.81 | 0.06 | 0.16 | 0.15 | 0.05 | 0.10 |
| Avail Cap(c_a), veh/h | 518 | 2526 | 1126 | 518 | 2526 | 1126 | 301 | 2594 | 1156 | 518 | 2526 | 1124 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 22.2 | 17.8 | 16.9 | 21.4 | 16.9 | 14.7 | 21.4 | 14.0 | 14.4 | 24.6 | 18.8 | 19.0 |
| Incr Delay (d2), s/veh | 0.3 | 0.7 | 0.7 | 0.3 | 0.5 | 0.0 | 13.0 | 0.0 | 0.2 | 0.8 | 0.0 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 2.1 | 1.2 | 0.4 | 2.0 | 0.1 | 3.0 | 0.2 | 0.5 | 0.1 | 0.1 | 0.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 22.5 | 18.6 | 17.6 | 21.7 | 17.4 | 14.7 | 34.4 | 14.1 | 14.6 | 25.4 | 18.9 | 19.2 |
| LnGrp LOS | C | B | B | C | B | B | C | B | B | C | B | B |
| Approach Vol, veh/h | | 683 | | | 576 | | | 333 | | | 62 | |
| Approach Delay, s/veh | | 18.7 | | | 17.9 | | | 26.9 | | | 20.4 | |
| Approach LOS | | B | | | B | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 5.5 | 19.2 | 9.4 | 17.5 | 11.7 | 13.0 | 8.4 | 18.6 |
| Change Period (Y+Rc), s | 4.2 | 5.3 | 4.2 | 5.7 | 4.2 | 5.3 | 4.2 | 5.7 |
| Max Green Setting (Gmax), s | 7.8 | 38.0 | 7.8 | 37.0 | 8.8 | 37.0 | 7.8 | 37.0 |
| Max Q Clear Time (g_c+I1), s | 2.2 | 3.7 | 3.1 | 8.4 | 7.9 | 2.7 | 2.7 | 8.2 |
| Green Ext Time (p_c), s | 0.0 | 0.5 | 0.1 | 3.4 | 0.1 | 0.2 | 0.0 | 3.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 20.1 |
| HCM 7th LOS | C |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 24.3 |
| Intersection LOS | C |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 2 | 150 | 68 | 5 | 198 | 244 | 102 | 222 | 7 | 133 | 225 | 1 |
| Future Vol, veh/h | 2 | 150 | 68 | 5 | 198 | 244 | 102 | 222 | 7 | 133 | 225 | 1 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 2 | 155 | 70 | 5 | 204 | 252 | 105 | 229 | 7 | 137 | 232 | 1 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 2 | 2 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 2 | 2 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 2 | 2 | 1 | 1 |
| HCM Control Delay, s/veh | 17.2 | 38.3 | 17.5 | 17.4 |
| HCM LOS | C | E | C | C |

| Lane | NBLn1 | NBLn2 | EBLn1 | WBLn1 | SBLn1 | SBLn2 |
|---|---|---|---|---|---|---|
| Vol Left, % | 100% | 0% | 1% | 1% | 100% | 0% |
| Vol Thru, % | 0% | 97% | 68% | 44% | 0% | 100% |
| Vol Right, % | 0% | 3% | 31% | 55% | 0% | 0% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 102 | 229 | 220 | 447 | 133 | 226 |
| LT Vol | 102 | 0 | 2 | 5 | 133 | 0 |
| Through Vol | 0 | 222 | 150 | 198 | 0 | 225 |
| RT Vol | 0 | 7 | 68 | 244 | 0 | 1 |
| Lane Flow Rate | 105 | 236 | 227 | 461 | 137 | 233 |
| Geometry Grp | 5 | 5 | 2 | 2 | 5 | 5 |
| Degree of Util (X) | 0.247 | 0.52 | 0.474 | 0.861 | 0.321 | 0.511 |
| Departure Headway (Hd) | 8.471 | 7.931 | 7.519 | 6.727 | 8.418 | 7.897 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes |
| Cap | 424 | 453 | 479 | 544 | 426 | 457 |
| Service Time | 6.235 | 5.694 | 5.584 | 4.727 | 6.181 | 5.659 |
| HCM Lane V/C Ratio | 0.248 | 0.521 | 0.474 | 0.847 | 0.322 | 0.51 |
| HCM Control Delay, s/veh | 14 | 19 | 17.2 | 38.3 | 15.1 | 18.7 |
| HCM Lane LOS | B | C | C | E | C | C |
| HCM 95th-tile Q | 1 | 2.9 | 2.5 | 9.3 | 1.4 | 2.8 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 24.8 |
| Intersection LOS | C |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 3 | 184 | 50 | 3 | 173 | 191 | 67 | 214 | 14 | 164 | 193 | 6 |
| Future Vol, veh/h | 3 | 184 | 50 | 3 | 173 | 191 | 67 | 214 | 14 | 164 | 193 | 6 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 3 | 211 | 57 | 3 | 199 | 220 | 77 | 246 | 16 | 189 | 222 | 7 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 2 | 2 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 2 | 2 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 2 | 2 | 1 | 1 |
| HCM Control Delay, s/veh | 21.4 | 36.5 | 20.4 | 18.8 |
| HCM LOS | C | E | C | C |

| Lane | NBLn1 | NBLn2 | EBLn1 | WBLn1 | SBLn1 | SBLn2 |
|---|---|---|---|---|---|---|
| Vol Left, % | 100% | 0% | 1% | 1% | 100% | 0% |
| Vol Thru, % | 0% | 94% | 78% | 47% | 0% | 97% |
| Vol Right, % | 0% | 6% | 21% | 52% | 0% | 3% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 67 | 228 | 237 | 367 | 164 | 199 |
| LT Vol | 67 | 0 | 3 | 3 | 164 | 0 |
| Through Vol | 0 | 214 | 184 | 173 | 0 | 193 |
| RT Vol | 0 | 14 | 50 | 191 | 0 | 6 |
| Lane Flow Rate | 77 | 262 | 272 | 422 | 189 | 229 |
| Geometry Grp | 5 | 5 | 2 | 2 | 5 | 5 |
| Degree of Util (X) | 0.187 | 0.596 | 0.587 | 0.832 | 0.452 | 0.514 |
| Departure Headway (Hd) | 8.749 | 8.185 | 7.758 | 7.1 | 8.623 | 8.083 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes |
| Cap | 410 | 440 | 463 | 510 | 417 | 446 |
| Service Time | 6.516 | 5.952 | 5.829 | 5.16 | 6.391 | 5.85 |
| HCM Lane V/C Ratio | 0.188 | 0.595 | 0.587 | 0.827 | 0.453 | 0.513 |
| HCM Control Delay, s/veh | 13.5 | 22.4 | 21.4 | 36.5 | 18.4 | 19.2 |
| HCM Lane LOS | B | C | C | E | C | C |
| HCM 95th-tile Q | 0.7 | 3.8 | 3.7 | 8.3 | 2.3 | 2.9 |

## Intersection: 1: Minnewawa Avenue & Behymer Avenue

| Movement | EB | WB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|
| Directions Served | LTR | LTR | L | TR | L | TR |
| Maximum Queue (ft) | 98 | 174 | 61 | 139 | 74 | 111 |
| Average Queue (ft) | 50 | 93 | 34 | 55 | 41 | 50 |
| 95th Queue (ft) | 84 | 153 | 58 | 94 | 65 | 81 |
| Link Distance (ft) | 2602 | 3212 | | 2594 | | 2594 |
| Upstream Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |
| Storage Bay Dist (ft) | | | 250 | | 250 | |
| Storage Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |

## Intersection: 2: Minnewawa Avenue & Perrin Avenue

| Movement | EB | WB |
|---|---|---|
| Directions Served | LTR | LTR |
| Maximum Queue (ft) | 28 | 25 |
| Average Queue (ft) | 6 | 4 |
| 95th Queue (ft) | 22 | 19 |
| Link Distance (ft) | 4816 | 1215 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

## Intersection: 5: Peach Avenue & Shepherd Avenue

| Movement | WB | NB | NB |
|---|---|---|---|
| Directions Served | L | L | R |
| Maximum Queue (ft) | 89 | 45 | 43 |
| Average Queue (ft) | 32 | 17 | 16 |
| 95th Queue (ft) | 68 | 36 | 30 |
| Link Distance (ft) | | | 2538 |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | 250 | 220 | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

## Intersection: 6: Minnewawa Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | WB | WB | WB | NB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | L | T | T | R | L | T | R | L | T | R | L | T |
| Maximum Queue (ft) | 51 | 132 | 160 | 93 | 339 | 560 | 250 | 128 | 127 | 40 | 133 | 224 |
| Average Queue (ft) | 11 | 68 | 84 | 31 | 83 | 251 | 105 | 70 | 63 | 8 | 76 | 85 |
| 95th Queue (ft) | 35 | 113 | 134 | 61 | 187 | 499 | 275 | 117 | 115 | 26 | 125 | 154 |
| Link Distance (ft) | | 2549 | 2549 | | | 1269 | | | 2555 | 2555 | | 2579 |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 240 | | | 50 | 220 | | 190 | 230 | | | 260 | |
| Storage Blk Time (%) | | | 24 | 1 | | 14 | | | | | | 43 |
| Queuing Penalty (veh) | | | 27 | 2 | | 39 | | | | | | 57 |

## Intersection: 6: Minnewawa Avenue & Shepherd Avenue

| Movement | SB |
|---|---|
| Directions Served | R |
| Maximum Queue (ft) | 45 |
| Average Queue (ft) | 15 |
| 95th Queue (ft) | 42 |
| Link Distance (ft) | |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | 15 |
| Storage Blk Time (%) | 3 |
| Queuing Penalty (veh) | 8 |

## Intersection: 7: Clovis Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | EB | WB | WB | WB | WB | NB | NB | NB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | L | L | T | T | R | L | L | T | T | L | T | T |
| Maximum Queue (ft) | 46 | 68 | 110 | 123 | 109 | 96 | 110 | 281 | 235 | 301 | 68 | 21 |
| Average Queue (ft) | 8 | 29 | 57 | 42 | 30 | 27 | 47 | 118 | 93 | 105 | 10 | 2 |
| 95th Queue (ft) | 29 | 54 | 99 | 96 | 74 | 67 | 77 | 217 | 195 | 219 | 34 | 12 |
| Link Distance (ft) | | | 1207 | 1207 | | | | 2012 | 2012 | | 2554 | 2554 |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 250 | 250 | | | 50 | 250 | 250 | | | 230 | | |
| Storage Blk Time (%) | | | | 4 | 1 | | | 1 | 0 | 5 | | |
| Queuing Penalty (veh) | | | | 6 | 3 | | | 1 | 0 | 1 | | |

## Intersection: 7: Clovis Avenue & Shepherd Avenue

| Movement | NB | SB | SB | SB | SB | SB |
|---|---|---|---|---|---|---|
| Directions Served | R | L | L | T | T | R |
| Maximum Queue (ft) | 20 | 41 | 43 | 62 | 22 | 34 |
| Average Queue (ft) | 12 | 7 | 4 | 24 | 3 | 10 |
| 95th Queue (ft) | 25 | 25 | 21 | 51 | 13 | 24 |
| Link Distance (ft) | | | | 1303 | 1303 | |
| Upstream Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |
| Storage Bay Dist (ft) | 50 | 250 | 250 | | | 100 |
| Storage Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |

## Network Summary

Network wide Queuing Penalty: 144

## Intersection: 1: Minnewawa Avenue & Behymer Avenue

| Movement | EB | WB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|
| Directions Served | LTR | LTR | L | TR | L | TR |
| Maximum Queue (ft) | 100 | 93 | 61 | 132 | 55 | 99 |
| Average Queue (ft) | 51 | 64 | 31 | 59 | 41 | 51 |
| 95th Queue (ft) | 82 | 92 | 56 | 101 | 60 | 77 |
| Link Distance (ft) | 2602 | 3212 | | 2594 | | 2594 |
| Upstream Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |
| Storage Bay Dist (ft) | | | 250 | | 250 | |
| Storage Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |

## Intersection: 2: Minnewawa Avenue & Perrin Avenue

| Movement | EB | WB |
|---|---|---|
| Directions Served | LTR | LTR |
| Maximum Queue (ft) | 23 | 26 |
| Average Queue (ft) | 2 | 6 |
| 95th Queue (ft) | 11 | 23 |
| Link Distance (ft) | 4816 | 1215 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

## Intersection: 5: Peach Avenue & Shepherd Avenue

| Movement | EB | WB | NB | NB |
|---|---|---|---|---|
| Directions Served | R | L | L | R |
| Maximum Queue (ft) | 41 | 74 | 68 | 43 |
| Average Queue (ft) | 3 | 21 | 31 | 20 |
| 95th Queue (ft) | 18 | 52 | 60 | 41 |
| Link Distance (ft) | | | | 2538 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | 100 | 250 | 220 | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

## Intersection: 6: Minnewawa Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | WB | WB | WB | NB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | L | T | T | R | L | T | R | L | T | R | L | T |
| Maximum Queue (ft) | 49 | 165 | 160 | 150 | 109 | 370 | 250 | 152 | 164 | 43 | 200 | 172 |
| Average Queue (ft) | 16 | 92 | 104 | 36 | 51 | 185 | 51 | 82 | 66 | 14 | 71 | 73 |
| 95th Queue (ft) | 39 | 138 | 161 | 100 | 97 | 333 | 181 | 142 | 131 | 35 | 138 | 130 |
| Link Distance (ft) | | 2549 | 2549 | | | 1269 | | | 2555 | 2555 | | 2579 |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 240 | | | 50 | 220 | | 190 | 230 | | | 260 | |
| Storage Blk Time (%) | | | 34 | 0 | | 10 | | | | | | 37 |
| Queuing Penalty (veh) | | | 29 | 0 | | 18 | | | | | | 39 |

## Intersection: 6: Minnewawa Avenue & Shepherd Avenue

| Movement | SB |
|---|---|
| Directions Served | R |
| Maximum Queue (ft) | 40 |
| Average Queue (ft) | 11 |
| 95th Queue (ft) | 37 |
| Link Distance (ft) | |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | 15 |
| Storage Blk Time (%) | 3 |
| Queuing Penalty (veh) | 8 |

## Intersection: 7: Clovis Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | EB | WB | WB | WB | WB | WB | NB | NB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | L | L | T | T | R | L | L | T | T | R | L | T |
| Maximum Queue (ft) | 46 | 67 | 156 | 152 | 110 | 85 | 67 | 181 | 174 | 20 | 306 | 89 |
| Average Queue (ft) | 7 | 31 | 87 | 60 | 33 | 19 | 34 | 88 | 57 | 6 | 145 | 16 |
| 95th Queue (ft) | 27 | 60 | 154 | 126 | 91 | 61 | 60 | 150 | 134 | 19 | 271 | 51 |
| Link Distance (ft) | | | 1207 | 1207 | | | | 2012 | 2012 | | | 2554 |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 250 | 250 | | | 50 | 250 | 250 | | | 175 | 230 | |
| Storage Blk Time (%) | | | | 9 | 1 | | | | 0 | | 8 | |
| Queuing Penalty (veh) | | | | 11 | 3 | | | | 0 | | 2 | |

## Intersection: 7: Clovis Avenue & Shepherd Avenue

| Movement | NB | NB | SB | SB | SB | SB | SB |
|---|---|---|---|---|---|---|---|
| Directions Served | T | R | L | L | T | T | R |
| Maximum Queue (ft) | 67 | 90 | 25 | 23 | 23 | 21 | 39 |
| Average Queue (ft) | 10 | 15 | 4 | 1 | 11 | 2 | 8 |
| 95th Queue (ft) | 33 | 43 | 19 | 10 | 28 | 10 | 25 |
| Link Distance (ft) | 2554 | | | | 1303 | 1303 | |
| Upstream Blk Time (%) | | | | | | | |
| Queuing Penalty (veh) | | | | | | | |
| Storage Bay Dist (ft) | | 50 | 250 | 250 | | | 100 |
| Storage Blk Time (%) | 0 | 0 | | | | | |
| Queuing Penalty (veh) | 0 | 0 | | | | | |

## Network Summary

Network wide Queuing Penalty: 110

# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Existing Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Minnewawa Avenue between Behymer Avenue and Perrin Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 389 | Opposing Demand Flow Rate, veh/h | 344 |
| Peak Hour Factor | 0.94 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.23 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.51614 | Speed Power Coefficient | 0.50665 |
| PF Slope Coefficient | -1.24680 | PF Power Coefficient | 0.79648 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 3.1 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 56.5 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 56.5 | Percent Followers, % | 44.5 |
| Segment Travel Time, minutes | 1.06 | Follower Density, followers/mi/ln | 3.1 |
| Vehicle LOS | B | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 3.1 | B |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Existing Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Minnewawa Avenue between Behymer Avenue and Perrin Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 483 | Opposing Demand Flow Rate, veh/h | 309 |
| Peak Hour Factor | 0.87 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.28 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.50626 | Speed Power Coefficient | 0.51332 |
| PF Slope Coefficient | -1.24102 | PF Power Coefficient | 0.79847 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 4.3 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 56.3 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 56.3 | Percent Followers, % | 50.0 |
| Segment Travel Time, minutes | 1.07 | Follower Density, followers/mi/ln | 4.3 |
| Vehicle LOS | C | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 4.3 | C |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Existing Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Minnewawa Avenue between Perrin Avenue and Shepherd Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 398 | Opposing Demand Flow Rate, veh/h | 351 |
| Peak Hour Factor | 0.94 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.23 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.51821 | Speed Power Coefficient | 0.50528 |
| PF Slope Coefficient | -1.24798 | PF Power Coefficient | 0.79607 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 3.2 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 56.5 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 56.5 | Percent Followers, % | 45.1 |
| Segment Travel Time, minutes | 1.06 | Follower Density, followers/mi/ln | 3.2 |
| Vehicle LOS | B | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 3.2 | B |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Existing Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Minnewawa Avenue between Perrin Avenue and Shepherd Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 483 | Opposing Demand Flow Rate, veh/h | 316 |
| Peak Hour Factor | 0.88 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.28 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.50823 | Speed Power Coefficient | 0.51197 |
| PF Slope Coefficient | -1.24219 | PF Power Coefficient | 0.79808 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 4.3 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 56.3 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 56.3 | Percent Followers, % | 50.1 |
| Segment Travel Time, minutes | 1.07 | Follower Density, followers/mi/ln | 4.3 |
| Vehicle LOS | C | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 4.3 | C |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Existing Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Shepherd Avenue between Willow Avenue and Peach Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Constrained | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 564 | Opposing Demand Flow Rate, veh/h | - |
| Peak Hour Factor | 0.88 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.33 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.72546 | Speed Power Coefficient | 0.41674 |
| PF Slope Coefficient | -1.31046 | PF Power Coefficient | 0.75667 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 5.8 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 55.7 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 55.7 | Percent Followers, % | 57.2 |
| Segment Travel Time, minutes | 1.08 | Follower Density, followers/mi/ln | 5.8 |
| Vehicle LOS | C | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 5.8 | C |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Existing Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Shepherd Avenue between Willow Avenue and Peach Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Constrained | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 569 | Opposing Demand Flow Rate, veh/h | - |
| Peak Hour Factor | 0.88 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.33 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.72546 | Speed Power Coefficient | 0.41674 |
| PF Slope Coefficient | -1.31046 | PF Power Coefficient | 0.75667 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 5.9 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 55.7 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 55.7 | Percent Followers, % | 57.5 |
| Segment Travel Time, minutes | 1.08 | Follower Density, followers/mi/ln | 5.9 |
| Vehicle LOS | C | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 5.9 | C |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Existing Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Shepherd Avenue between Peach Avenue and Minnewawa Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Constrained | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 765 | Opposing Demand Flow Rate, veh/h | - |
| Peak Hour Factor | 0.89 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.45 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.72546 | Speed Power Coefficient | 0.41674 |
| PF Slope Coefficient | -1.31046 | PF Power Coefficient | 0.75667 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 9.1 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 55.3 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 55.3 | Percent Followers, % | 65.7 |
| Segment Travel Time, minutes | 1.09 | Follower Density, followers/mi/ln | 9.1 |
| Vehicle LOS | D | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 9.1 | D |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Existing Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Shepherd Avenue between Peach Avenue and Minnewawa Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Constrained | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 669 | Opposing Demand Flow Rate, veh/h | - |
| Peak Hour Factor | 0.87 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.39 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.72546 | Speed Power Coefficient | 0.41674 |
| PF Slope Coefficient | -1.31046 | PF Power Coefficient | 0.75667 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 7.5 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 55.5 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 55.5 | Percent Followers, % | 62.0 |
| Segment Travel Time, minutes | 1.08 | Follower Density, followers/mi/ln | 7.5 |
| Vehicle LOS | C | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 7.5 | C |

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# Appendix F: Existing plus Project Traffic Conditions

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 45.5 |
| Intersection LOS | E |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 2 | 150 | 69 | 5 | 198 | 244 | 112 | 231 | 7 | 133 | 226 | 1 |
| Future Vol, veh/h | 2 | 150 | 69 | 5 | 198 | 244 | 112 | 231 | 7 | 133 | 226 | 1 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 2 | 155 | 71 | 5 | 204 | 252 | 115 | 238 | 7 | 137 | 233 | 1 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 21.8 | 63.6 | 40.2 | 42.8 |
| HCM LOS | C | F | E | E |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 32% | 1% | 1% | 37% |
| Vol Thru, % | 66% | 68% | 44% | 63% |
| Vol Right, % | 2% | 31% | 55% | 0% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 350 | 221 | 447 | 360 |
| LT Vol | 112 | 2 | 5 | 133 |
| Through Vol | 231 | 150 | 198 | 226 |
| RT Vol | 7 | 69 | 244 | 1 |
| Lane Flow Rate | 361 | 228 | 461 | 371 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.826 | 0.547 | 0.977 | 0.847 |
| Departure Headway (Hd) | 8.238 | 8.737 | 7.633 | 8.217 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 437 | 415 | 479 | 438 |
| Service Time | 6.327 | 6.737 | 5.633 | 6.306 |
| HCM Lane V/C Ratio | 0.826 | 0.549 | 0.962 | 0.847 |
| HCM Control Delay, s/veh | 40.2 | 21.8 | 63.6 | 42.8 |
| HCM Lane LOS | E | C | F | E |
| HCM 95th-tile Q | 7.8 | 3.2 | 12.5 | 8.3 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 2.5 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 0 | 7 | 12 | 0 | 92 | 5 | 292 | 10 | 60 | 264 | 1 |
| Future Vol, veh/h | 1 | 0 | 7 | 12 | 0 | 92 | 5 | 292 | 10 | 60 | 264 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 1 | 0 | 7 | 13 | 0 | 98 | 5 | 311 | 11 | 64 | 281 | 1 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 730 | 741 | 281 | 735 | 736 | 316 | 282 | 0 | 0 | 321 | 0 | 0 |
| Stage 1 | 409 | 409 | - | 327 | 327 | - | - | - | - | - | - | - |
| Stage 2 | 321 | 332 | - | 409 | 410 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.13 | 6.53 | 6.23 | 7.13 | 6.53 | 6.23 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 4.027 | 3.327 | 3.527 | 4.027 | 3.327 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 336 | 343 | 755 | 334 | 345 | 722 | 1275 | - | - | 1233 | - | - |
| Stage 1 | 617 | 594 | - | 684 | 646 | - | - | - | - | - | - | - |
| Stage 2 | 688 | 643 | - | 618 | 594 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 272 | 320 | 755 | 309 | 322 | 722 | 1275 | - | - | 1233 | - | - |
| Mov Cap-2 Maneuver | 272 | 320 | - | 309 | 322 | - | - | - | - | - | - | - |
| Stage 1 | 579 | 558 | - | 680 | 643 | - | - | - | - | - | - | - |
| Stage 2 | 592 | 639 | - | 574 | 558 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 10.91 | 11.99 | 0.13 | 1.49 |
| HCM LOS | B | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 29 | - | - | 618 | 626 | 332 | - | - |
| HCM Lane V/C Ratio | 0.004 | - | - | 0.014 | 0.177 | 0.052 | - | - |
| HCM Control Delay (s/veh) | 7.8 | 0 | - | 10.9 | 12 | 8.1 | 0 | - |
| HCM Lane LOS | A | A | - | B | B | A | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | 0.6 | 0.2 | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.1 |

| Movement | WBL | WBR | NBU | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Vol, veh/h | 3 | 0 | 38 | 85 | 52 | 0 | 71 |
| Future Vol, veh/h | 3 | 0 | 38 | 85 | 52 | 0 | 71 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free | Free |
| RT Channelized | - | None | - | - | None | - | None |
| Storage Length | 100 | 0 | 140 | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 |
| Grade, % | 0 | - | - | 0 | - | - | 0 |
| Peak Hour Factor | 86 | 86 | 86 | 86 | 86 | 86 | 86 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 3 | 0 | 44 | 99 | 60 | 0 | 83 |

| Major/Minor | Minor1 | | Major1 | | | Major2 | |
|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 181 | 99 | - | 0 | 0 | 159 | 0 |
| Stage 1 | 99 | - | - | - | - | - | - |
| Stage 2 | 83 | - | - | - | - | - | - |
| Critical Hdwy | 6.43 | 6.23 | - | - | - | 4.13 | - |
| Critical Hdwy Stg 1 | 5.43 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.43 | - | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 3.327 | - | - | - | 2.227 | - |
| Pot Cap-1 Maneuver | 806 | 954 | - | - | - | 1414 | - |
| Stage 1 | 923 | - | - | - | - | - | - |
| Stage 2 | 938 | - | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | | - |
| Mov Cap-1 Maneuver | 806 | 954 | - | - | - | 1414 | - |
| Mov Cap-2 Maneuver | 806 | - | - | - | - | - | - |
| Stage 1 | 923 | - | - | - | - | - | - |
| Stage 2 | 938 | - | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | 9.49 | | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBU | NBT | NBR | WBLn1 | WBLn2 | SBL | SBT |
|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | 806 | - | 1414 | - |
| HCM Lane V/C Ratio | - | - | - | 0.004 | - | - | - |
| HCM Control Delay (s/veh) | - | - | - | 9.5 | 0 | 0 | - |
| HCM Lane LOS | - | - | - | A | A | A | - |
| HCM 95th %tile Q(veh) | - | - | - | 0 | - | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 2.1 |

| Movement | EBU | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Vol, veh/h | 0 | 497 | 98 | 87 | 481 | 26 | 80 |
| Future Vol, veh/h | 0 | 497 | 98 | 87 | 481 | 26 | 80 |
| Conflicting Peds, #/hr | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | - | None | - | None | - | None |
| Storage Length | 250 | - | 100 | 250 | - | 220 | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | 0 | - |
| Grade, % | - | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 88 | 88 | 88 | 88 | 88 | 88 | 88 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 0 | 565 | 111 | 99 | 547 | 30 | 91 |

| Major/Minor | Major1 | | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|---|
| Conflicting Flow All | - | 0 | 0 | 677 | 0 | 1310 | 283 |
| Stage 1 | - | - | - | - | - | 566 | - |
| Stage 2 | - | - | - | - | - | 744 | - |
| Critical Hdwy | - | - | - | 4.145 | - | 6.645 | 6.945 |
| Critical Hdwy Stg 1 | - | - | - | - | - | 5.845 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | 5.445 | - |
| Follow-up Hdwy | - | - | - | 2.2285 | - | 3.5285 | 3.3285 |
| Pot Cap-1 Maneuver | - | - | - | 907 | - | 161 | 712 |
| Stage 1 | - | - | - | - | - | 530 | - |
| Stage 2 | - | - | - | - | - | 466 | - |
| Platoon blocked, % | | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | 906 | - | 144 | 711 |
| Mov Cap-2 Maneuver | - | - | - | - | - | 144 | - |
| Stage 1 | - | - | - | - | - | 530 | - |
| Stage 2 | - | - | - | - | - | 415 | - |

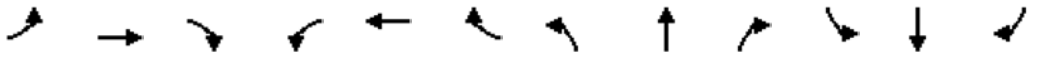
| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 1.45 | 17.09 |
| HCM LOS | | | C |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBU | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 144 | 711 | - | - | - | 906 | - |
| HCM Lane V/C Ratio | 0.206 | 0.128 | - | - | - | 0.109 | - |
| HCM Control Delay (s/veh) | 36.4 | 10.8 | 0 | - | - | 9.5 | - |
| HCM Lane LOS | E | B | A | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.7 | 0.4 | - | - | - | 0.4 | - |

# HCM 7th Signalized Intersection Summary
## 6: Minnewawa Avenue & Shepherd Avenue

Existing plus Pro

04/08/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 31 | 416 | 111 | 112 | 533 | 80 | 129 | 159 | 39 | 58 | 203 | 31 |
| Future Volume (veh/h) | 31 | 416 | 111 | 112 | 533 | 80 | 129 | 159 | 39 | 58 | 203 | 31 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 33 | 443 | 118 | 119 | 567 | 85 | 137 | 169 | 41 | 62 | 216 | 33 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 96 | 1088 | 485 | 189 | 671 | 569 | 197 | 350 | 296 | 144 | 294 | 250 |
| Arrive On Green | 0.05 | 0.31 | 0.31 | 0.11 | 0.36 | 0.36 | 0.11 | 0.19 | 0.19 | 0.08 | 0.16 | 0.16 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 33 | 443 | 118 | 119 | 567 | 85 | 137 | 169 | 41 | 62 | 216 | 33 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 1.2 | 6.4 | 3.6 | 4.1 | 18.0 | 2.3 | 4.8 | 5.2 | 1.4 | 2.1 | 7.1 | 1.2 |
| Cycle Q Clear(g_c), s | 1.2 | 6.4 | 3.6 | 4.1 | 18.0 | 2.3 | 4.8 | 5.2 | 1.4 | 2.1 | 7.1 | 1.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 96 | 1088 | 485 | 189 | 671 | 569 | 197 | 350 | 296 | 144 | 294 | 250 |
| V/C Ratio(X) | 0.35 | 0.41 | 0.24 | 0.63 | 0.84 | 0.15 | 0.70 | 0.48 | 0.14 | 0.43 | 0.73 | 0.13 |
| Avail Cap(c_a), veh/h | 215 | 1945 | 868 | 243 | 1053 | 892 | 243 | 948 | 804 | 243 | 928 | 787 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 29.2 | 17.5 | 16.5 | 27.3 | 18.8 | 13.8 | 27.4 | 23.2 | 21.6 | 28.0 | 25.6 | 23.1 |
| Incr Delay (d2), s/veh | 2.1 | 0.2 | 0.3 | 3.4 | 3.8 | 0.1 | 6.4 | 1.0 | 0.2 | 2.0 | 3.5 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.5 | 2.2 | 1.1 | 1.7 | 6.9 | 0.7 | 2.2 | 2.1 | 0.5 | 0.9 | 3.0 | 0.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 31.3 | 17.7 | 16.8 | 30.7 | 22.6 | 13.9 | 33.7 | 24.2 | 21.8 | 30.0 | 29.2 | 23.4 |
| LnGrp LOS | C | B | B | C | C | B | C | C | C | C | C | C |
| Approach Vol, veh/h | | 594 | | | 771 | | | 347 | | | 311 | |
| Approach Delay, s/veh | | 18.3 | | | 22.9 | | | 27.7 | | | 28.7 | |
| Approach LOS | | B | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 9.4 | 18.1 | 11.1 | 25.5 | 11.3 | 16.2 | 7.7 | 28.8 |
| Change Period (Y+Rc), s | 4.2 | * 6 | 4.2 | 5.7 | 4.2 | 6.0 | 4.2 | 5.7 |
| Max Green Setting (Gmax), s | 8.8 | * 33 | 8.8 | 35.3 | 8.8 | 32.0 | 7.8 | 36.3 |
| Max Q Clear Time (g_c+I1), s | 4.1 | 7.2 | 6.1 | 8.4 | 6.8 | 9.1 | 3.2 | 20.0 |
| Green Ext Time (p_c), s | 0.0 | 0.9 | 0.1 | 3.0 | 0.1 | 1.1 | 0.0 | 3.2 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 23.3 |
| HCM 7th LOS | C |

**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

# HCM 7th Signalized Intersection Summary
## 7: Clovis Avenue & Shepherd Avenue

Existing plus Pro

04/08/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 50 | 338 | 121 | 100 | 539 | 49 | 123 | 80 | 41 | 57 | 73 | 27 |
| Future Volume (veh/h) | 50 | 338 | 121 | 100 | 539 | 49 | 123 | 80 | 41 | 57 | 73 | 27 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 56 | 380 | 136 | 112 | 606 | 55 | 138 | 90 | 46 | 64 | 82 | 30 |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 284 | 807 | 360 | 409 | 936 | 417 | 227 | 681 | 304 | 309 | 546 | 243 |
| Arrive On Green | 0.08 | 0.23 | 0.23 | 0.12 | 0.27 | 0.27 | 0.13 | 0.19 | 0.19 | 0.09 | 0.15 | 0.15 |
| Sat Flow, veh/h | 3428 | 3526 | 1572 | 3428 | 3526 | 1572 | 1767 | 3526 | 1572 | 3428 | 3526 | 1566 |
| Grp Volume(v), veh/h | 56 | 380 | 136 | 112 | 606 | 55 | 138 | 90 | 46 | 64 | 82 | 30 |
| Grp Sat Flow(s),veh/h/ln | 1714 | 1763 | 1572 | 1714 | 1763 | 1572 | 1767 | 1763 | 1572 | 1714 | 1763 | 1566 |
| Q Serve(g_s), s | 0.8 | 4.9 | 3.8 | 1.6 | 8.0 | 1.4 | 3.9 | 1.1 | 1.3 | 0.9 | 1.1 | 0.9 |
| Cycle Q Clear(g_c), s | 0.8 | 4.9 | 3.8 | 1.6 | 8.0 | 1.4 | 3.9 | 1.1 | 1.3 | 0.9 | 1.1 | 0.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 284 | 807 | 360 | 409 | 936 | 417 | 227 | 681 | 304 | 309 | 546 | 243 |
| V/C Ratio(X) | 0.20 | 0.47 | 0.38 | 0.27 | 0.65 | 0.13 | 0.61 | 0.13 | 0.15 | 0.21 | 0.15 | 0.12 |
| Avail Cap(c_a), veh/h | 508 | 2478 | 1105 | 508 | 2478 | 1105 | 295 | 2545 | 1135 | 508 | 2478 | 1101 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 22.5 | 17.5 | 17.1 | 21.1 | 17.2 | 14.7 | 21.7 | 17.6 | 17.6 | 22.2 | 19.3 | 19.2 |
| Incr Delay (d2), s/veh | 0.3 | 0.4 | 0.7 | 0.4 | 0.8 | 0.1 | 2.6 | 0.1 | 0.2 | 0.3 | 0.1 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 1.6 | 1.2 | 0.5 | 2.6 | 0.4 | 1.5 | 0.4 | 0.4 | 0.3 | 0.4 | 0.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 22.8 | 18.0 | 17.8 | 21.5 | 17.9 | 14.9 | 24.3 | 17.7 | 17.9 | 22.5 | 19.4 | 19.4 |
| LnGrp LOS | C | B | B | C | B | B | C | B | B | C | B | B |
| Approach Vol, veh/h | | 572 | | | 773 | | | 274 | | | 176 | |
| Approach Delay, s/veh | | 18.4 | | | 18.2 | | | 21.0 | | | 20.5 | |
| Approach LOS | | B | | | B | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 8.9 | 15.5 | 10.5 | 17.7 | 11.0 | 13.5 | 8.6 | 19.7 |
| Change Period (Y+Rc), s | 4.2 | 5.3 | 4.2 | 5.7 | 4.2 | 5.3 | 4.2 | 5.7 |
| Max Green Setting (Gmax), s | 7.8 | 38.0 | 7.8 | 37.0 | 8.8 | 37.0 | 7.8 | 37.0 |
| Max Q Clear Time (g_c+I1), s | 2.9 | 3.3 | 3.6 | 6.9 | 5.9 | 3.1 | 2.8 | 10.0 |
| Green Ext Time (p_c), s | 0.0 | 0.6 | 0.1 | 2.7 | 0.1 | 0.5 | 0.0 | 3.9 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 18.9 |
| HCM 7th LOS | B |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 57.7 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 3 | 184 | 54 | 3 | 173 | 191 | 69 | 216 | 14 | 164 | 195 | 6 |
| Future Vol, veh/h | 3 | 184 | 54 | 3 | 173 | 191 | 69 | 216 | 14 | 164 | 195 | 6 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 3 | 211 | 62 | 3 | 199 | 220 | 79 | 248 | 16 | 189 | 224 | 7 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 31.1 | 65.1 | 45.4 | 78 |
| HCM LOS | D | F | E | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 23% | 1% | 1% | 45% |
| Vol Thru, % | 72% | 76% | 47% | 53% |
| Vol Right, % | 5% | 22% | 52% | 2% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 299 | 241 | 367 | 365 |
| LT Vol | 69 | 3 | 3 | 164 |
| Through Vol | 216 | 184 | 173 | 195 |
| RT Vol | 14 | 54 | 191 | 6 |
| Lane Flow Rate | 344 | 277 | 422 | 420 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.846 | 0.699 | 0.968 | 1.014 |
| Departure Headway (Hd) | 9.011 | 9.255 | 8.406 | 8.704 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 406 | 393 | 434 | 420 |
| Service Time | 7.011 | 7.255 | 6.406 | 6.704 |
| HCM Lane V/C Ratio | 0.847 | 0.705 | 0.972 | 1 |
| HCM Control Delay, s/veh | 45.4 | 31.1 | 65.1 | 78 |
| HCM Lane LOS | E | D | F | F |
| HCM 95th-tile Q | 8.1 | 5.2 | 11.6 | 12.9 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 2.2 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 0 | 1 | 17 | 1 | 66 | 2 | 357 | 18 | 48 | 227 | 0 |
| Future Vol, veh/h | 1 | 0 | 1 | 17 | 1 | 66 | 2 | 357 | 18 | 48 | 227 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 1 | 0 | 1 | 19 | 1 | 75 | 2 | 406 | 20 | 55 | 258 | 0 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 778 | 798 | 258 | 788 | 788 | 416 | 258 | 0 | 0 | 426 | 0 | 0 |
| Stage 1 | 367 | 367 | - | 420 | 420 | - | - | - | - | - | - | - |
| Stage 2 | 411 | 431 | - | 367 | 367 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.13 | 6.53 | 6.23 | 7.13 | 6.53 | 6.23 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 4.027 | 3.327 | 3.527 | 4.027 | 3.327 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 313 | 318 | 778 | 308 | 322 | 635 | 1301 | - | - | 1128 | - | - |
| Stage 1 | 650 | 620 | - | 609 | 587 | - | - | - | - | - | - | - |
| Stage 2 | 616 | 581 | - | 650 | 620 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 259 | 299 | 778 | 289 | 303 | 635 | 1301 | - | - | 1128 | - | - |
| Mov Cap-2 Maneuver | 259 | 299 | - | 289 | 303 | - | - | - | - | - | - | - |
| Stage 1 | 614 | 585 | - | 607 | 586 | - | - | - | - | - | - | - |
| Stage 2 | 541 | 580 | - | 613 | 585 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 14.33 | 13.76 | 0.04 | 1.46 |
| HCM LOS | B | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 9 | - | - | 388 | 506 | 314 | - | - |
| HCM Lane V/C Ratio | 0.002 | - | - | 0.006 | 0.189 | 0.048 | - | - |
| HCM Control Delay (s/veh) | 7.8 | 0 | - | 14.3 | 13.8 | 8.4 | 0 | - |
| HCM Lane LOS | A | A | - | B | B | A | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | 0.7 | 0.2 | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.2 |

| Movement | WBL | WBR | NBU | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Vol, veh/h | 24 | 0 | 23 | 88 | 6 | 0 | 52 |
| Future Vol, veh/h | 24 | 0 | 23 | 88 | 6 | 0 | 52 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free | Free |
| RT Channelized | - | None | - | - | None | - | None |
| Storage Length | 100 | 0 | 140 | - | 0 | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 |
| Grade, % | 0 | - | - | 0 | - | - | 0 |
| Peak Hour Factor | 82 | 82 | 82 | 82 | 82 | 82 | 82 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 29 | 0 | 28 | 107 | 7 | 0 | 63 |

| Major/Minor | Minor1 | | Major1 | | | Major2 | |
|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 171 | 107 | - | 0 | 0 | 115 | 0 |
| Stage 1 | 107 | - | - | - | - | - | - |
| Stage 2 | 63 | - | - | - | - | - | - |
| Critical Hdwy | 6.43 | 6.23 | - | - | - | 4.13 | - |
| Critical Hdwy Stg 1 | 5.43 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.43 | - | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 3.327 | - | - | - | 2.227 | - |
| Pot Cap-1 Maneuver | 817 | 944 | - | - | - | 1468 | - |
| Stage 1 | 915 | - | - | - | - | - | - |
| Stage 2 | 957 | - | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | | - |
| Mov Cap-1 Maneuver | 817 | 944 | - | - | - | 1468 | - |
| Mov Cap-2 Maneuver | 817 | - | - | - | - | - | - |
| Stage 1 | 915 | - | - | - | - | - | - |
| Stage 2 | 957 | - | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | 9.57 | | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBU | NBT | NBR | WBLn1 | WBLn2 | SBL | SBT |
|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | 817 | - | 1468 | - |
| HCM Lane V/C Ratio | - | - | - | 0.036 | - | - | - |
| HCM Control Delay (s/veh) | - | - | - | 9.6 | 0 | 0 | - |
| HCM Lane LOS | - | - | - | A | A | A | - |
| HCM 95th %tile Q(veh) | - | - | - | 0.1 | - | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 2.5 |

| Movement | EBU | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Vol, veh/h | 2 | 693 | 74 | 43 | 458 | 51 | 59 |
| Future Vol, veh/h | 2 | 693 | 74 | 43 | 458 | 51 | 59 |
| Conflicting Peds, #/hr | 0 | 0 | 2 | 2 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | - | None | - | None | - | None |
| Storage Length | 250 | - | 100 | 250 | - | 220 | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | 0 | - |
| Grade, % | - | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 2 | 753 | 80 | 47 | 498 | 55 | 64 |

| Major/Minor | Major1 | | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|---|
| Conflicting Flow All | - | 0 | 0 | 836 | 0 | 1351 | 379 |
| Stage 1 | - | - | - | - | - | 760 | - |
| Stage 2 | - | - | - | - | - | 591 | - |
| Critical Hdwy | - | - | - | 4.145 | - | 6.645 | 6.945 |
| Critical Hdwy Stg 1 | - | - | - | - | - | 5.845 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | 5.445 | - |
| Follow-up Hdwy | - | - | - | 2.2285 | - | 3.5285 | 3.3285 |
| Pot Cap-1 Maneuver | - | - | - | 791 | - | 152 | 617 |
| Stage 1 | - | - | - | - | - | 421 | - |
| Stage 2 | - | - | - | - | - | 550 | - |
| Platoon blocked, % | | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | 789 | - | 143 | 616 |
| Mov Cap-2 Maneuver | - | - | - | - | - | 143 | - |
| Stage 1 | - | - | - | - | - | 421 | - |
| Stage 2 | - | - | - | - | - | 517 | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | | 0.85 | 27.22 |
| HCM LOS | | | D |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBU | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 143 | 616 | - | - | - | 789 | - |
| HCM Lane V/C Ratio | 0.388 | 0.104 | - | - | - | 0.059 | - |
| HCM Control Delay (s/veh) | 45.4 | 11.5 | - | - | - | 9.8 | - |
| HCM Lane LOS | E | B | - | - | - | A | - |
| HCM 95th %tile Q(veh) | 1.7 | 0.3 | - | - | - | 0.2 | - |

# HCM 7th Signalized Intersection Summary
## 6: Minnewawa Avenue & Shepherd Avenue

Existing plus Pro

04/08/2024

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 46 | 484 | 86 | 64 | 447 | 64 | 119 | 194 | 50 | 46 | 198 | 26 |
| Future Volume (veh/h) | 46 | 484 | 86 | 64 | 447 | 64 | 119 | 194 | 50 | 46 | 198 | 26 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 52 | 550 | 98 | 73 | 508 | 73 | 135 | 220 | 57 | 52 | 225 | 30 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 131 | 1107 | 494 | 158 | 611 | 518 | 198 | 376 | 319 | 131 | 305 | 259 |
| Arrive On Green | 0.07 | 0.31 | 0.31 | 0.09 | 0.33 | 0.33 | 0.11 | 0.20 | 0.20 | 0.07 | 0.16 | 0.16 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 52 | 550 | 98 | 73 | 508 | 73 | 135 | 220 | 57 | 52 | 225 | 30 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 1.8 | 8.0 | 2.9 | 2.5 | 15.9 | 2.1 | 4.6 | 6.7 | 1.9 | 1.8 | 7.2 | 1.0 |
| Cycle Q Clear(g_c), s | 1.8 | 8.0 | 2.9 | 2.5 | 15.9 | 2.1 | 4.6 | 6.7 | 1.9 | 1.8 | 7.2 | 1.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 131 | 1107 | 494 | 158 | 611 | 518 | 198 | 376 | 319 | 131 | 305 | 259 |
| V/C Ratio(X) | 0.40 | 0.50 | 0.20 | 0.46 | 0.83 | 0.14 | 0.68 | 0.58 | 0.18 | 0.40 | 0.74 | 0.12 |
| Avail Cap(c_a), veh/h | 219 | 1979 | 883 | 219 | 1042 | 883 | 275 | 1024 | 868 | 219 | 944 | 800 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 27.8 | 17.5 | 15.8 | 27.2 | 19.5 | 14.8 | 26.8 | 22.7 | 20.7 | 27.8 | 25.0 | 22.4 |
| Incr Delay (d2), s/veh | 1.9 | 0.3 | 0.2 | 2.1 | 3.0 | 0.1 | 4.1 | 1.4 | 0.3 | 1.9 | 3.5 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.7 | 2.7 | 0.9 | 1.0 | 6.1 | 0.6 | 2.0 | 2.7 | 0.6 | 0.7 | 3.0 | 0.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 29.7 | 17.9 | 16.0 | 29.3 | 22.5 | 14.9 | 30.9 | 24.1 | 21.0 | 29.7 | 28.4 | 22.6 |
| LnGrp LOS | C | B | B | C | C | B | C | C | C | C | C | C |
| Approach Vol, veh/h | | 700 | | | 654 | | | 412 | | | 307 | |
| Approach Delay, s/veh | | 18.5 | | | 22.4 | | | 25.9 | | | 28.1 | |
| Approach LOS | | B | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 8.9 | 18.8 | 9.8 | 25.4 | 11.3 | 16.3 | 8.9 | 26.4 |
| Change Period (Y+Rc), s | 4.2 | * 6 | 4.2 | 5.7 | 4.2 | 6.0 | 4.2 | 5.7 |
| Max Green Setting (Gmax), s | 7.8 | * 35 | 7.8 | 35.3 | 9.8 | 32.0 | 7.8 | 35.3 |
| Max Q Clear Time (g_c+I1), s | 3.8 | 8.7 | 4.5 | 10.0 | 6.6 | 9.2 | 3.8 | 17.9 |
| Green Ext Time (p_c), s | 0.0 | 1.3 | 0.0 | 3.6 | 0.1 | 1.1 | 0.0 | 2.8 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 22.6 |
| HCM 7th LOS | C |

**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

# HCM 7th Signalized Intersection Summary
## 7: Clovis Avenue & Shepherd Avenue

Existing plus Pro

04/08/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 46 | 401 | 105 | 67 | 392 | 56 | 154 | 94 | 57 | 40 | 45 | 21 |
| Future Volume (veh/h) | 46 | 401 | 105 | 67 | 392 | 56 | 154 | 94 | 57 | 40 | 45 | 21 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 53 | 461 | 121 | 77 | 451 | 64 | 177 | 108 | 66 | 46 | 52 | 24 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 277 | 772 | 344 | 348 | 845 | 377 | 248 | 797 | 355 | 251 | 560 | 249 |
| Arrive On Green | 0.08 | 0.22 | 0.22 | 0.10 | 0.24 | 0.24 | 0.14 | 0.23 | 0.23 | 0.07 | 0.16 | 0.16 |
| Sat Flow, veh/h | 3428 | 3526 | 1572 | 3428 | 3526 | 1572 | 1767 | 3526 | 1570 | 3428 | 3526 | 1570 |
| Grp Volume(v), veh/h | 53 | 461 | 121 | 77 | 451 | 64 | 177 | 108 | 66 | 46 | 52 | 24 |
| Grp Sat Flow(s),veh/h/ln | 1714 | 1763 | 1572 | 1714 | 1763 | 1572 | 1767 | 1763 | 1570 | 1714 | 1763 | 1570 |
| Q Serve(g_s), s | 0.7 | 6.0 | 3.3 | 1.1 | 5.7 | 1.6 | 4.9 | 1.2 | 1.7 | 0.6 | 0.6 | 0.7 |
| Cycle Q Clear(g_c), s | 0.7 | 6.0 | 3.3 | 1.1 | 5.7 | 1.6 | 4.9 | 1.2 | 1.7 | 0.6 | 0.6 | 0.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 277 | 772 | 344 | 348 | 845 | 377 | 248 | 797 | 355 | 251 | 560 | 249 |
| V/C Ratio(X) | 0.19 | 0.60 | 0.35 | 0.22 | 0.53 | 0.17 | 0.71 | 0.14 | 0.19 | 0.18 | 0.09 | 0.10 |
| Avail Cap(c_a), veh/h | 524 | 2557 | 1140 | 524 | 2557 | 1140 | 305 | 2626 | 1170 | 524 | 2557 | 1138 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 21.9 | 17.9 | 16.9 | 21.1 | 16.9 | 15.4 | 20.9 | 15.8 | 16.0 | 22.2 | 18.3 | 18.3 |
| Incr Delay (d2), s/veh | 0.3 | 0.7 | 0.6 | 0.3 | 0.5 | 0.2 | 5.9 | 0.1 | 0.3 | 0.3 | 0.1 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 2.0 | 1.0 | 0.4 | 1.9 | 0.5 | 2.1 | 0.4 | 0.5 | 0.2 | 0.2 | 0.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 22.2 | 18.6 | 17.5 | 21.4 | 17.4 | 15.6 | 26.9 | 15.8 | 16.2 | 22.6 | 18.4 | 18.5 |
| LnGrp LOS | C | B | B | C | B | B | C | B | B | C | B | B |
| Approach Vol, veh/h | | 635 | | | 592 | | | 351 | | | 122 | |
| Approach Delay, s/veh | | 18.7 | | | 17.7 | | | 21.5 | | | 20.0 | |
| Approach LOS | | B | | | B | | | C | | | B | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 7.9 | 16.8 | 9.4 | 16.9 | 11.4 | 13.4 | 8.3 | 17.9 |
| Change Period (Y+Rc), s | 4.2 | 5.3 | 4.2 | 5.7 | 4.2 | 5.3 | 4.2 | 5.7 |
| Max Green Setting (Gmax), s | 7.8 | 38.0 | 7.8 | 37.0 | 8.8 | 37.0 | 7.8 | 37.0 |
| Max Q Clear Time (g_c+I1), s | 2.6 | 3.7 | 3.1 | 8.0 | 6.9 | 2.7 | 2.7 | 7.7 |
| Green Ext Time (p_c), s | 0.0 | 0.8 | 0.1 | 3.2 | 0.1 | 0.3 | 0.0 | 2.9 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 19.0 |
| HCM 7th LOS | B |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 25.2 |
| Intersection LOS | D |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 2 | 150 | 69 | 5 | 198 | 244 | 112 | 231 | 7 | 133 | 226 | 1 |
| Future Vol, veh/h | 2 | 150 | 69 | 5 | 198 | 244 | 112 | 231 | 7 | 133 | 226 | 1 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 2 | 155 | 71 | 5 | 204 | 252 | 115 | 238 | 7 | 137 | 233 | 1 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 2 | 2 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 2 | 2 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 2 | 2 | 1 | 1 |
| HCM Control Delay, s/veh | 17.7 | 40.4 | 18.2 | 17.7 |
| HCM LOS | C | E | C | C |

| Lane | NBLn1 | NBLn2 | EBLn1 | WBLn1 | SBLn1 | SBLn2 |
|---|---|---|---|---|---|---|
| Vol Left, % | 100% | 0% | 1% | 1% | 100% | 0% |
| Vol Thru, % | 0% | 97% | 68% | 44% | 0% | 100% |
| Vol Right, % | 0% | 3% | 31% | 55% | 0% | 0% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 112 | 238 | 221 | 447 | 133 | 227 |
| LT Vol | 112 | 0 | 2 | 5 | 133 | 0 |
| Through Vol | 0 | 231 | 150 | 198 | 0 | 226 |
| RT Vol | 0 | 7 | 69 | 244 | 0 | 1 |
| Lane Flow Rate | 115 | 245 | 228 | 461 | 137 | 234 |
| Geometry Grp | 5 | 5 | 2 | 2 | 5 | 5 |
| Degree of Util (X) | 0.273 | 0.544 | 0.483 | 0.873 | 0.324 | 0.519 |
| Departure Headway (Hd) | 8.524 | 7.985 | 7.626 | 6.818 | 8.51 | 7.988 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes |
| Cap | 420 | 451 | 472 | 535 | 422 | 452 |
| Service Time | 6.29 | 5.75 | 5.694 | 4.818 | 6.276 | 5.754 |
| HCM Lane V/C Ratio | 0.274 | 0.543 | 0.483 | 0.862 | 0.325 | 0.518 |
| HCM Control Delay, s/veh | 14.5 | 19.9 | 17.7 | 40.4 | 15.3 | 19.1 |
| HCM Lane LOS | B | C | C | E | C | C |
| HCM 95th-tile Q | 1.1 | 3.2 | 2.6 | 9.6 | 1.4 | 2.9 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 25.4 |
| Intersection LOS | D |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 3 | 184 | 54 | 3 | 173 | 191 | 69 | 216 | 14 | 164 | 195 | 6 |
| Future Vol, veh/h | 3 | 184 | 54 | 3 | 173 | 191 | 69 | 216 | 14 | 164 | 195 | 6 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 3 | 211 | 62 | 3 | 199 | 220 | 79 | 248 | 16 | 189 | 224 | 7 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 2 | 2 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 2 | 2 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 2 | 2 | 1 | 1 |
| HCM Control Delay, s/veh | 22 | 37.5 | 20.8 | 19.1 |
| HCM LOS | C | E | C | C |

| Lane | NBLn1 | NBLn2 | EBLn1 | WBLn1 | SBLn1 | SBLn2 |
|---|---|---|---|---|---|---|
| Vol Left, % | 100% | 0% | 1% | 1% | 100% | 0% |
| Vol Thru, % | 0% | 94% | 76% | 47% | 0% | 97% |
| Vol Right, % | 0% | 6% | 22% | 52% | 0% | 3% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 69 | 230 | 241 | 367 | 164 | 201 |
| LT Vol | 69 | 0 | 3 | 3 | 164 | 0 |
| Through Vol | 0 | 216 | 184 | 173 | 0 | 195 |
| RT Vol | 0 | 14 | 54 | 191 | 0 | 6 |
| Lane Flow Rate | 79 | 264 | 277 | 422 | 189 | 231 |
| Geometry Grp | 5 | 5 | 2 | 2 | 5 | 5 |
| Degree of Util (X) | 0.194 | 0.605 | 0.6 | 0.839 | 0.454 | 0.522 |
| Departure Headway (Hd) | 8.798 | 8.234 | 7.798 | 7.158 | 8.678 | 8.137 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes |
| Cap | 407 | 439 | 463 | 506 | 415 | 441 |
| Service Time | 6.566 | 6.002 | 5.872 | 5.219 | 6.449 | 5.908 |
| HCM Lane V/C Ratio | 0.194 | 0.601 | 0.598 | 0.834 | 0.455 | 0.524 |
| HCM Control Delay, s/veh | 13.7 | 22.9 | 22 | 37.5 | 18.5 | 19.5 |
| HCM Lane LOS | B | C | C | E | C | C |
| HCM 95th-tile Q | 0.7 | 3.9 | 3.9 | 8.5 | 2.3 | 2.9 |

## Intersection: 1: Minnewawa Avenue & Behymer Avenue

| Movement | EB | WB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|
| Directions Served | LTR | LTR | L | TR | L | TR |
| Maximum Queue (ft) | 110 | 161 | 89 | 118 | 54 | 115 |
| Average Queue (ft) | 62 | 88 | 41 | 59 | 32 | 58 |
| 95th Queue (ft) | 97 | 139 | 69 | 99 | 47 | 98 |
| Link Distance (ft) | 2602 | 3212 | | 2594 | | 2594 |
| Upstream Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |
| Storage Bay Dist (ft) | | | 250 | | 250 | |
| Storage Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |

## Intersection: 2: Minnewawa Avenue & Perrin Avenue

| Movement | EB | WB | NB | SB |
|---|---|---|---|---|
| Directions Served | LTR | LTR | LTR | LTR |
| Maximum Queue (ft) | 31 | 96 | 26 | 158 |
| Average Queue (ft) | 5 | 36 | 1 | 28 |
| 95th Queue (ft) | 21 | 71 | 8 | 91 |
| Link Distance (ft) | 4816 | 1433 | 2579 | 2594 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | | | | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

## Intersection: 4: Clovis Avenue & Baron Avenue

| Movement | WB | NB |
|---|---|---|
| Directions Served | L | U |
| Maximum Queue (ft) | 24 | 31 |
| Average Queue (ft) | 1 | 3 |
| 95th Queue (ft) | 8 | 16 |
| Link Distance (ft) | | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | 100 | 140 |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

## Intersection: 5: Peach Avenue & Shepherd Avenue

| Movement | EB | WB | NB | NB |
|---|---|---|---|---|
| Directions Served | R | L | L | R |
| Maximum Queue (ft) | 41 | 75 | 47 | 46 |
| Average Queue (ft) | 1 | 29 | 16 | 21 |
| 95th Queue (ft) | 13 | 61 | 41 | 37 |
| Link Distance (ft) | | | | 2538 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | 100 | 250 | 220 | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

## Intersection: 6: Minnewawa Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | WB | WB | WB | B17 | NB | NB | NB | SB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | L | T | T | R | L | T | R | T | L | T | R | L |
| Maximum Queue (ft) | 71 | 114 | 116 | 142 | 340 | 433 | 250 | 56 | 211 | 176 | 59 | 91 |
| Average Queue (ft) | 22 | 67 | 78 | 35 | 79 | 200 | 59 | 2 | 85 | 90 | 14 | 50 |
| 95th Queue (ft) | 55 | 101 | 123 | 76 | 182 | 322 | 199 | 18 | 165 | 155 | 38 | 89 |
| Link Distance (ft) | | 2549 | 2549 | | | 1269 | | 1207 | | 2555 | 2555 | |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 240 | | | 50 | 220 | | 190 | | 230 | | | 260 |
| Storage Blk Time (%) | | | 27 | 1 | | 12 | | | 0 | | | |
| Queuing Penalty (veh) | | | 30 | 2 | | 23 | | | 0 | | | |

## Intersection: 6: Minnewawa Avenue & Shepherd Avenue

| Movement | SB | SB |
|---|---|---|
| Directions Served | T | R |
| Maximum Queue (ft) | 201 | 44 |
| Average Queue (ft) | 98 | 13 |
| 95th Queue (ft) | 168 | 41 |
| Link Distance (ft) | 2579 | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | 15 |
| Storage Blk Time (%) | 51 | 3 |
| Queuing Penalty (veh) | 45 | 8 |

## Intersection: 7: Clovis Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | EB | WB | WB | WB | WB | WB | NB | NB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | L | L | T | T | R | L | L | T | T | R | L | T |
| Maximum Queue (ft) | 64 | 116 | 174 | 187 | 107 | 72 | 136 | 234 | 227 | 33 | 126 | 47 |
| Average Queue (ft) | 22 | 19 | 86 | 51 | 32 | 18 | 48 | 120 | 93 | 12 | 61 | 27 |
| 95th Queue (ft) | 51 | 58 | 161 | 119 | 88 | 51 | 83 | 203 | 192 | 28 | 109 | 55 |
| Link Distance (ft) | | | 1207 | 1207 | | | | 2012 | 2012 | | | 2554 |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 250 | 250 | | | 50 | 250 | 250 | | | 175 | 230 | |
| Storage Blk Time (%) | | | | 4 | 1 | | | 0 | 0 | | | |
| Queuing Penalty (veh) | | | | 5 | 2 | | | 0 | 0 | | | |

## Intersection: 7: Clovis Avenue & Shepherd Avenue

| Movement | NB | NB | SB | SB | SB | SB | SB |
|---|---|---|---|---|---|---|---|
| Directions Served | T | R | L | L | T | T | R |
| Maximum Queue (ft) | 63 | 20 | 89 | 46 | 81 | 82 | 62 |
| Average Queue (ft) | 13 | 8 | 26 | 15 | 28 | 19 | 16 |
| 95th Queue (ft) | 38 | 23 | 64 | 37 | 63 | 54 | 42 |
| Link Distance (ft) | 2554 | | | | 1269 | 1269 | |
| Upstream Blk Time (%) | | | | | | | |
| Queuing Penalty (veh) | | | | | | | |
| Storage Bay Dist (ft) | | 50 | 250 | 250 | | | 100 |
| Storage Blk Time (%) | 0 | | | | | 0 | |
| Queuing Penalty (veh) | 0 | | | | | 0 | |

## Network Summary

Network wide Queuing Penalty: 116

## Intersection: 1: Minnewawa Avenue & Behymer Avenue

| Movement | EB | WB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|
| Directions Served | LTR | LTR | L | TR | L | TR |
| Maximum Queue (ft) | 76 | 199 | 68 | 78 | 77 | 75 |
| Average Queue (ft) | 45 | 67 | 31 | 49 | 41 | 44 |
| 95th Queue (ft) | 67 | 125 | 55 | 72 | 64 | 68 |
| Link Distance (ft) | 2602 | 3212 | | 2594 | | 2594 |
| Upstream Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |
| Storage Bay Dist (ft) | | | 250 | | 250 | |
| Storage Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |

## Intersection: 2: Minnewawa Avenue & Perrin Avenue

| Movement | EB | WB | NB | SB |
|---|---|---|---|---|
| Directions Served | LTR | LTR | LTR | LTR |
| Maximum Queue (ft) | 24 | 54 | 21 | 31 |
| Average Queue (ft) | 2 | 30 | 1 | 13 |
| 95th Queue (ft) | 11 | 51 | 7 | 35 |
| Link Distance (ft) | 4816 | 1429 | 2579 | 2594 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | | | | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

## Intersection: 4: Clovis Avenue & Baron Avenue

| Movement | WB | NB |
|---|---|---|
| Directions Served | L | U |
| Maximum Queue (ft) | 24 | 27 |
| Average Queue (ft) | 13 | 2 |
| 95th Queue (ft) | 32 | 12 |
| Link Distance (ft) | | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | 100 | 140 |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

## Intersection: 5: Peach Avenue & Shepherd Avenue

| Movement | EB | WB | NB | NB |
|---|---|---|---|---|
| Directions Served | R | L | L | R |
| Maximum Queue (ft) | 20 | 72 | 91 | 43 |
| Average Queue (ft) | 1 | 17 | 32 | 22 |
| 95th Queue (ft) | 7 | 50 | 71 | 37 |
| Link Distance (ft) | | | | 2538 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | 100 | 250 | 220 | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

## Intersection: 6: Minnewawa Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | WB | WB | WB | NB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | L | T | T | R | L | T | R | L | T | R | L | T |
| Maximum Queue (ft) | 88 | 158 | 162 | 144 | 339 | 627 | 250 | 134 | 150 | 79 | 70 | 227 |
| Average Queue (ft) | 36 | 89 | 103 | 36 | 82 | 208 | 38 | 71 | 68 | 15 | 29 | 87 |
| 95th Queue (ft) | 68 | 143 | 164 | 100 | 251 | 441 | 156 | 123 | 128 | 40 | 64 | 165 |
| Link Distance (ft) | | 2549 | 2549 | | | 1269 | | | 2555 | 2555 | | 2579 |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 240 | | | 50 | 220 | | 190 | 230 | | | 260 | |
| Storage Blk Time (%) | | | 34 | 1 | | 11 | | | | | | 46 |
| Queuing Penalty (veh) | | | 30 | 3 | | 14 | | | | | | 33 |

## Intersection: 6: Minnewawa Avenue & Shepherd Avenue

| Movement | SB |
|---|---|
| Directions Served | R |
| Maximum Queue (ft) | 40 |
| Average Queue (ft) | 14 |
| 95th Queue (ft) | 41 |
| Link Distance (ft) | |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | 15 |
| Storage Blk Time (%) | 3 |
| Queuing Penalty (veh) | 8 |

## Intersection: 7: Clovis Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | EB | WB | WB | WB | WB | WB | NB | NB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | L | L | T | T | R | L | L | T | T | R | L | T |
| Maximum Queue (ft) | 48 | 46 | 206 | 225 | 110 | 47 | 46 | 200 | 156 | 44 | 197 | 83 |
| Average Queue (ft) | 21 | 20 | 95 | 72 | 31 | 11 | 24 | 95 | 63 | 13 | 99 | 34 |
| 95th Queue (ft) | 45 | 44 | 188 | 174 | 86 | 33 | 51 | 175 | 138 | 32 | 171 | 69 |
| Link Distance (ft) | | | 1207 | 1207 | | | | 2012 | 2012 | | | 2554 |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 250 | 250 | | | 50 | 250 | 250 | | | 175 | 230 | |
| Storage Blk Time (%) | | | | 14 | 1 | | | | 0 | | | |
| Queuing Penalty (veh) | | | | 15 | 1 | | | | 0 | | | |

## Intersection: 7: Clovis Avenue & Shepherd Avenue

| Movement | NB | NB | SB | SB | SB | SB | SB |
|---|---|---|---|---|---|---|---|
| Directions Served | T | R | L | L | T | T | R |
| Maximum Queue (ft) | 42 | 59 | 67 | 65 | 23 | 42 | 20 |
| Average Queue (ft) | 7 | 11 | 20 | 12 | 13 | 6 | 5 |
| 95th Queue (ft) | 25 | 30 | 48 | 41 | 28 | 23 | 17 |
| Link Distance (ft) | 2554 | | | | 1268 | 1268 | |
| Upstream Blk Time (%) | | | | | | | |
| Queuing Penalty (veh) | | | | | | | |
| Storage Bay Dist (ft) | | 50 | 250 | 250 | | | 100 |
| Storage Blk Time (%) | 0 | 0 | | | | | |
| Queuing Penalty (veh) | 0 | 0 | | | | | |

## Network Summary

Network wide Queuing Penalty: 103

# HCS7 Two-Lane Highway Report

## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Existing plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Minnewawa Avenue between Behymer Avenue and Perrin Avenue | Units | U.S. Customary |

## Segment 1

### Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

### Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 410 | Opposing Demand Flow Rate, veh/h | 346 |
| Peak Hour Factor | 0.94 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.24 |

### Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.51673 | Speed Power Coefficient | 0.50625 |
| PF Slope Coefficient | -1.24714 | PF Power Coefficient | 0.79636 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 3.3 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

### Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 56.5 |

### Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 56.5 | Percent Followers, % | 45.8 |
| Segment Travel Time, minutes | 1.06 | Follower Density, followers/mi/ln | 3.3 |
| Vehicle LOS | B | | |

### Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 3.3 | B |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Existing plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Minnewawa Avenue between Behymer Avenue and Perrin Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 487 | Opposing Demand Flow Rate, veh/h | 316 |
| Peak Hour Factor | 0.87 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.29 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.50828 | Speed Power Coefficient | 0.51194 |
| PF Slope Coefficient | -1.24222 | PF Power Coefficient | 0.79806 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 4.4 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 56.2 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 56.2 | Percent Followers, % | 50.3 |
| Segment Travel Time, minutes | 1.07 | Follower Density, followers/mi/ln | 4.4 |
| Vehicle LOS | C | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 4.4 | C |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Existing plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Minnewawa Avenue between Perrin Avenue and Shepherd Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 327 | Opposing Demand Flow Rate, veh/h | 301 |
| Peak Hour Factor | 0.94 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.19 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.50385 | Speed Power Coefficient | 0.51498 |
| PF Slope Coefficient | -1.23957 | PF Power Coefficient | 0.79896 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 2.3 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 56.8 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 56.8 | Percent Followers, % | 39.8 |
| Segment Travel Time, minutes | 1.06 | Follower Density, followers/mi/ln | 2.3 |
| Vehicle LOS | B | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 2.3 | B |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Existing plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Minnewawa Avenue between Perrin Avenue and Shepherd Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 428 | Opposing Demand Flow Rate, veh/h | 278 |
| Peak Hour Factor | 0.88 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.25 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.49695 | Speed Power Coefficient | 0.51981 |
| PF Slope Coefficient | -1.23537 | PF Power Coefficient | 0.80037 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 3.5 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 56.4 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 56.4 | Percent Followers, % | 46.6 |
| Segment Travel Time, minutes | 1.06 | Follower Density, followers/mi/ln | 3.5 |
| Vehicle LOS | B | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 3.5 | B |

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# HCS7 Two-Lane Highway Report

AGENDA ITEM NO. 17.

## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Existing plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Shepherd Avenue between Willow Avenue and Peach Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Constrained | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 50 | Access Point Density, pts/mi | 4.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 576 | Opposing Demand Flow Rate, veh/h | - |
| Peak Hour Factor | 0.88 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.34 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 51.7 |
| Speed Slope Coefficient | 3.36232 | Speed Power Coefficient | 0.41674 |
| PF Slope Coefficient | -1.35765 | PF Power Coefficient | 0.73804 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 7.0 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 49.2 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 49.2 | Percent Followers, % | 59.5 |
| Segment Travel Time, minutes | 1.22 | Follower Density, followers/mi/ln | 7.0 |
| Vehicle LOS | C | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 7.0 | C |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Existing plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Shepherd Avenue between Willow Avenue and Peach Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Constrained | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 50 | Access Point Density, pts/mi | 4.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 581 | Opposing Demand Flow Rate, veh/h | - |
| Peak Hour Factor | 0.88 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.34 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 51.7 |
| Speed Slope Coefficient | 3.36232 | Speed Power Coefficient | 0.41674 |
| PF Slope Coefficient | -1.35765 | PF Power Coefficient | 0.73804 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 7.0 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 49.2 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 49.2 | Percent Followers, % | 59.7 |
| Segment Travel Time, minutes | 1.22 | Follower Density, followers/mi/ln | 7.0 |
| Vehicle LOS | C | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 7.0 | C |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Existing plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Shepherd Avenue between Peach Avenue and Minnewawa Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Constrained | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 50 | Access Point Density, pts/mi | 4.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 779 | Opposing Demand Flow Rate, veh/h | - |
| Peak Hour Factor | 0.89 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.46 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 51.7 |
| Speed Slope Coefficient | 3.36232 | Speed Power Coefficient | 0.41674 |
| PF Slope Coefficient | -1.35765 | PF Power Coefficient | 0.73804 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 10.8 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 48.8 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 48.8 | Percent Followers, % | 67.7 |
| Segment Travel Time, minutes | 1.23 | Follower Density, followers/mi/ln | 10.8 |
| Vehicle LOS | D | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 10.8 | D |

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# HCS7 Two-Lane Highway Report

## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Existing plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Shepherd Avenue between Peach Avenue and Minnewawa Avenue | Units | U.S. Customary |

## Segment 1

### Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Constrained | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 50 | Access Point Density, pts/mi | 4.0 |

### Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 680 | Opposing Demand Flow Rate, veh/h | - |
| Peak Hour Factor | 0.87 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.40 |

### Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 51.7 |
| Speed Slope Coefficient | 3.36232 | Speed Power Coefficient | 0.41674 |
| PF Slope Coefficient | -1.35765 | PF Power Coefficient | 0.73804 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 8.9 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

### Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 49.0 |

### Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 49.0 | Percent Followers, % | 64.0 |
| Segment Travel Time, minutes | 1.22 | Follower Density, followers/mi/ln | 8.9 |
| Vehicle LOS | C | | |

### Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 8.9 | C |

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# Appendix G: Near Term plus Project Traffic Conditions

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 107.1 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 2 | 159 | 84 | 6 | 219 | 259 | 147 | 299 | 9 | 147 | 291 | 1 |
| Future Vol, veh/h | 2 | 159 | 84 | 6 | 219 | 259 | 147 | 299 | 9 | 147 | 291 | 1 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 2 | 164 | 87 | 6 | 226 | 267 | 152 | 308 | 9 | 152 | 300 | 1 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 32.7 | 127.9 | 122.4 | 110 |
| HCM LOS | D | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 32% | 1% | 1% | 33% |
| Vol Thru, % | 66% | 65% | 45% | 66% |
| Vol Right, % | 2% | 34% | 54% | 0% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 455 | 245 | 484 | 439 |
| LT Vol | 147 | 2 | 6 | 147 |
| Through Vol | 299 | 159 | 219 | 291 |
| RT Vol | 9 | 84 | 259 | 1 |
| Lane Flow Rate | 469 | 253 | 499 | 453 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 1.143 | 0.663 | 1.165 | 1.105 |
| Departure Headway (Hd) | 9.676 | 10.793 | 9.158 | 9.78 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 380 | 338 | 399 | 376 |
| Service Time | 7.676 | 8.793 | 7.158 | 7.78 |
| HCM Lane V/C Ratio | 1.234 | 0.749 | 1.251 | 1.205 |
| HCM Control Delay, s/veh | 122.4 | 32.7 | 127.9 | 110 |
| HCM Lane LOS | F | D | F | F |
| HCM 95th-tile Q | 16.4 | 4.5 | 17.8 | 15 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 3 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 0 | 7 | 12 | 0 | 131 | 5 | 358 | 10 | 82 | 324 | 1 |
| Future Vol, veh/h | 1 | 0 | 7 | 12 | 0 | 131 | 5 | 358 | 10 | 82 | 324 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 1 | 0 | 7 | 13 | 0 | 139 | 5 | 381 | 11 | 87 | 345 | 1 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 911 | 922 | 345 | 916 | 917 | 386 | 346 | 0 | 0 | 391 | 0 | 0 |
| Stage 1 | 520 | 520 | - | 397 | 397 | - | - | - | - | - | - | - |
| Stage 2 | 391 | 402 | - | 519 | 520 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.13 | 6.53 | 6.23 | 7.13 | 6.53 | 6.23 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 4.027 | 3.327 | 3.527 | 4.027 | 3.327 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 254 | 269 | 695 | 252 | 271 | 659 | 1208 | - | - | 1162 | - | - |
| Stage 1 | 538 | 531 | - | 627 | 602 | - | - | - | - | - | - | - |
| Stage 2 | 631 | 599 | - | 538 | 530 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 181 | 243 | 695 | 225 | 244 | 659 | 1208 | - | - | 1162 | - | - |
| Mov Cap-2 Maneuver | 181 | 243 | - | 225 | 244 | - | - | - | - | - | - | - |
| Stage 1 | 488 | 481 | - | 623 | 598 | - | - | - | - | - | - | - |
| Stage 2 | 495 | 595 | - | 483 | 481 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 12.14 | 13.65 | 0.11 | 1.68 |
| HCM LOS | B | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 24 | - | - | 513 | 567 | 362 | - | - |
| HCM Lane V/C Ratio | 0.004 | - | - | 0.017 | 0.268 | 0.075 | - | - |
| HCM Control Delay (s/veh) | 8 | 0 | - | 12.1 | 13.7 | 8.4 | 0 | - |
| HCM Lane LOS | A | A | - | B | B | A | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0.1 | 1.1 | 0.2 | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 12.1 |

| Movement | WBL | WBR | NBU | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Vol, veh/h | 428 | 37 | 38 | 117 | 208 | 6 | 175 |
| Future Vol, veh/h | 428 | 37 | 38 | 117 | 208 | 6 | 175 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free | Free |
| RT Channelized | - | None | - | - | None | - | None |
| Storage Length | 100 | 0 | 140 | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 |
| Grade, % | 0 | - | - | 0 | - | - | 0 |
| Peak Hour Factor | 86 | 86 | 86 | 86 | 86 | 86 | 86 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 498 | 43 | 44 | 136 | 242 | 7 | 203 |

| Major/Minor | Minor1 | | Major1 | | | Major2 | |
|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 353 | 136 | - | 0 | 0 | 378 | 0 |
| Stage 1 | 136 | - | - | - | - | - | - |
| Stage 2 | 217 | - | - | - | - | - | - |
| Critical Hdwy | 6.43 | 6.23 | - | - | - | 4.13 | - |
| Critical Hdwy Stg 1 | 5.43 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.43 | - | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 3.327 | - | - | - | 2.227 | - |
| Pot Cap-1 Maneuver | 642 | 910 | - | - | - | 1175 | - |
| Stage 1 | 888 | - | - | - | - | - | - |
| Stage 2 | 816 | - | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | | - |
| Mov Cap-1 Maneuver | 638 | 910 | - | - | - | 1175 | - |
| Mov Cap-2 Maneuver | 638 | - | - | - | - | - | - |
| Stage 1 | 888 | - | - | - | - | - | - |
| Stage 2 | 811 | - | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | 26.24 | | 0.27 |
| HCM LOS | D | | |

| Minor Lane/Major Mvmt | NBU | NBT | NBR | WBLn1 | WBLn2 | SBL | SBT |
|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | 638 | 910 | 60 | - |
| HCM Lane V/C Ratio | - | - | - | 0.78 | 0.047 | 0.006 | - |
| HCM Control Delay (s/veh) | - | - | - | 27.7 | 9.2 | 8.1 | 0 |
| HCM Lane LOS | - | - | - | D | A | A | A |
| HCM 95th %tile Q(veh) | - | - | - | 7.5 | 0.1 | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 6.5 |

| Movement | EBU | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Vol, veh/h | 0 | 950 | 105 | 99 | 836 | 30 | 86 |
| Future Vol, veh/h | 0 | 950 | 105 | 99 | 836 | 30 | 86 |
| Conflicting Peds, #/hr | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | - | None | - | None | - | None |
| Storage Length | 250 | - | 100 | 250 | - | 220 | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | 0 | - |
| Grade, % | - | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 88 | 88 | 88 | 88 | 88 | 88 | 88 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 0 | 1080 | 119 | 113 | 950 | 34 | 98 |

| Major/Minor | Major1 | | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|---|
| Conflicting Flow All | - | 0 | 0 | 1200 | 0 | 2256 | 541 |
| Stage 1 | - | - | - | - | - | 1081 | - |
| Stage 2 | - | - | - | - | - | 1175 | - |
| Critical Hdwy | - | - | - | 4.145 | - | 6.645 | 6.945 |
| Critical Hdwy Stg 1 | - | - | - | - | - | 5.845 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | 5.445 | - |
| Follow-up Hdwy | - | - | - | 2.2285 | - | 3.5285 | 3.3285 |
| Pot Cap-1 Maneuver | - | - | - | 575 | - | 39 | 484 |
| Stage 1 | - | - | - | - | - | 286 | - |
| Stage 2 | - | - | - | - | - | 291 | - |
| Platoon blocked, % | | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | 574 | - | ~ 32 | 484 |
| Mov Cap-2 Maneuver | - | - | - | - | - | ~ 32 | - |
| Stage 1 | - | - | - | - | - | 286 | - |
| Stage 2 | - | - | - | - | - | 234 | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | 0 | 1.35 | 106.66 |
| HCM LOS | | | F |

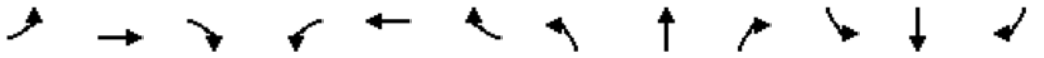
| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBU | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 32 | 484 | - | - | - | 574 | - |
| HCM Lane V/C Ratio | 1.077 | 0.202 | - | - | - | 0.196 | - |
| HCM Control Delay (s/veh) | $ 371.4 | 14.3 | 0 | - | - | 12.8 | - |
| HCM Lane LOS | F | B | A | - | - | B | - |
| HCM 95th %tile Q(veh) | 3.7 | 0.7 | - | - | - | 0.7 | - |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

# HCM 7th Signalized Intersection Summary
## 6: Minnewawa Avenue & Shepherd Avenue

Near Term plus Pro

04/08/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 40 | 850 | 125 | 201 | 858 | 117 | 142 | 174 | 70 | 123 | 234 | 55 |
| Future Volume (veh/h) | 40 | 850 | 125 | 201 | 858 | 117 | 142 | 174 | 70 | 123 | 234 | 55 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 43 | 904 | 133 | 214 | 913 | 124 | 151 | 185 | 74 | 131 | 249 | 59 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 324 | 1622 | 724 | 234 | 734 | 622 | 123 | 231 | 195 | 166 | 294 | 249 |
| Arrive On Green | 0.18 | 0.46 | 0.46 | 0.13 | 0.40 | 0.40 | 0.07 | 0.12 | 0.12 | 0.09 | 0.16 | 0.16 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 43 | 904 | 133 | 214 | 913 | 124 | 151 | 185 | 74 | 131 | 249 | 59 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 2.3 | 20.9 | 5.6 | 13.4 | 44.3 | 5.8 | 7.8 | 10.9 | 3.6 | 8.1 | 14.6 | 2.4 |
| Cycle Q Clear(g_c), s | 2.3 | 20.9 | 5.6 | 13.4 | 44.3 | 5.8 | 7.8 | 10.9 | 3.6 | 8.1 | 14.6 | 2.4 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 324 | 1622 | 724 | 234 | 734 | 622 | 123 | 231 | 195 | 166 | 294 | 249 |
| V/C Ratio(X) | 0.13 | 0.56 | 0.18 | 0.92 | 1.24 | 0.20 | 1.23 | 0.80 | 0.38 | 0.79 | 0.85 | 0.24 |
| Avail Cap(c_a), veh/h | 324 | 1622 | 724 | 234 | 734 | 622 | 123 | 542 | 459 | 166 | 530 | 449 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 38.3 | 22.0 | 17.8 | 48.0 | 33.8 | 22.2 | 52.1 | 47.7 | 25.5 | 49.6 | 45.8 | 17.8 |
| Incr Delay (d2), s/veh | 0.2 | 1.4 | 0.6 | 37.0 | 121.1 | 0.7 | 154.4 | 6.4 | 1.2 | 21.7 | 6.6 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.0 | 8.2 | 2.0 | 8.0 | 42.9 | 2.1 | 8.6 | 5.3 | 1.9 | 4.4 | 6.9 | 1.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 38.5 | 23.3 | 18.4 | 85.0 | 155.0 | 22.9 | 206.5 | 54.1 | 26.7 | 71.3 | 52.4 | 18.3 |
| LnGrp LOS | D | C | B | F | F | C | F | D | C | E | D | B |
| Approach Vol, veh/h | | 1080 | | | 1251 | | | 410 | | | 439 | |
| Approach Delay, s/veh | | 23.3 | | | 129.9 | | | 105.3 | | | 53.5 | |
| Approach LOS | | C | | | F | | | F | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 16.5 | 19.2 | 19.0 | 57.2 | 12.0 | 23.8 | 26.2 | 50.0 |
| Change Period (Y+Rc), s | 6.0 | * 5.3 | 4.2 | 5.7 | 4.2 | 6.0 | 5.7 | * 5.7 |
| Max Green Setting (Gmax), s | 7.8 | * 33 | 14.8 | 37.3 | 7.8 | 32.0 | 7.8 | * 44 |
| Max Q Clear Time (g_c+I1), s | 10.1 | 12.9 | 15.4 | 22.9 | 9.8 | 16.6 | 4.3 | 46.3 |
| Green Ext Time (p_c), s | 0.0 | 1.1 | 0.0 | 5.2 | 0.0 | 1.2 | 0.0 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 80.0 |
| HCM 7th LOS | E |

**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

# HCM 7th Signalized Intersection Summary
## 7: Clovis Avenue & Shepherd Avenue

Near Term plus Pro

04/08/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 110 | 763 | 156 | 218 | 813 | 80 | 151 | 174 | 81 | 158 | 354 | 169 |
| Future Volume (veh/h) | 110 | 763 | 156 | 218 | 813 | 80 | 151 | 174 | 81 | 158 | 354 | 169 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 124 | 857 | 175 | 245 | 913 | 90 | 170 | 196 | 91 | 178 | 398 | 190 |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 234 | 991 | 442 | 929 | 1754 | 782 | 170 | 329 | 147 | 542 | 581 | 258 |
| Arrive On Green | 0.07 | 0.28 | 0.28 | 0.27 | 0.50 | 0.50 | 0.10 | 0.09 | 0.09 | 0.16 | 0.16 | 0.16 |
| Sat Flow, veh/h | 3428 | 3526 | 1572 | 3428 | 3526 | 1572 | 1767 | 3526 | 1572 | 3428 | 3526 | 1567 |
| Grp Volume(v), veh/h | 124 | 857 | 175 | 245 | 913 | 90 | 170 | 196 | 91 | 178 | 398 | 190 |
| Grp Sat Flow(s),veh/h/ln | 1714 | 1763 | 1572 | 1714 | 1763 | 1572 | 1767 | 1763 | 1572 | 1714 | 1763 | 1567 |
| Q Serve(g_s), s | 3.9 | 25.9 | 7.5 | 6.3 | 19.7 | 1.7 | 10.8 | 6.0 | 6.2 | 5.2 | 11.9 | 12.9 |
| Cycle Q Clear(g_c), s | 3.9 | 25.9 | 7.5 | 6.3 | 19.7 | 1.7 | 10.8 | 6.0 | 6.2 | 5.2 | 11.9 | 12.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 234 | 991 | 442 | 929 | 1754 | 782 | 170 | 329 | 147 | 542 | 581 | 258 |
| V/C Ratio(X) | 0.53 | 0.86 | 0.40 | 0.26 | 0.52 | 0.12 | 1.00 | 0.60 | 0.62 | 0.33 | 0.69 | 0.74 |
| Avail Cap(c_a), veh/h | 239 | 1133 | 505 | 929 | 1754 | 782 | 170 | 1165 | 519 | 542 | 1165 | 518 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 50.4 | 38.2 | 18.0 | 32.0 | 19.1 | 3.6 | 50.6 | 48.7 | 48.9 | 41.9 | 44.0 | 44.5 |
| Incr Delay (d2), s/veh | 2.1 | 10.0 | 2.6 | 0.1 | 1.1 | 0.3 | 68.2 | 1.7 | 4.2 | 0.4 | 1.4 | 4.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.7 | 11.9 | 3.9 | 2.5 | 7.6 | 1.1 | 7.8 | 2.6 | 2.5 | 2.2 | 5.1 | 5.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 52.6 | 48.2 | 20.6 | 32.2 | 20.2 | 3.9 | 118.8 | 50.5 | 53.1 | 42.2 | 45.5 | 48.5 |
| LnGrp LOS | D | D | C | C | C | A | F | D | D | D | D | D |
| Approach Vol, veh/h | | 1156 | | | 1248 | | | 457 | | | 766 | |
| Approach Delay, s/veh | | 44.5 | | | 21.4 | | | 76.4 | | | 45.5 | |
| Approach LOS | | D | | | C | | | E | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 23.0 | 15.8 | 36.1 | 37.2 | 15.0 | 23.8 | 11.8 | 61.4 |
| Change Period (Y+Rc), s | 5.3 | * 5.3 | 5.7 | * 5.7 | 4.2 | 5.3 | 4.2 | 5.7 |
| Max Green Setting (Gmax), s | 10.8 | * 37 | 8.8 | * 36 | 10.8 | 37.0 | 7.8 | 37.0 |
| Max Q Clear Time (g_c+I1), s | 17.2 | 8.2 | 8.3 | 27.9 | 12.8 | 14.9 | 5.9 | 21.7 |
| Green Ext Time (p_c), s | 0.2 | 1.4 | 0.0 | 3.6 | 0.0 | 2.9 | 0.1 | 5.3 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 40.8 |
| HCM 7th LOS | D |

**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 146.9 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 3 | 208 | 75 | 5 | 188 | 210 | 91 | 304 | 16 | 184 | 266 | 6 |
| Future Vol, veh/h | 3 | 208 | 75 | 5 | 188 | 210 | 91 | 304 | 16 | 184 | 266 | 6 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 3 | 239 | 86 | 6 | 216 | 241 | 105 | 349 | 18 | 211 | 306 | 7 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 57.9 | 130.5 | 155.5 | 209.4 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 22% | 1% | 1% | 40% |
| Vol Thru, % | 74% | 73% | 47% | 58% |
| Vol Right, % | 4% | 26% | 52% | 1% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 411 | 286 | 403 | 456 |
| LT Vol | 91 | 3 | 5 | 184 |
| Through Vol | 304 | 208 | 188 | 266 |
| RT Vol | 16 | 75 | 210 | 6 |
| Lane Flow Rate | 472 | 329 | 463 | 524 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 1.221 | 0.86 | 1.155 | 1.362 |
| Departure Headway (Hd) | 10.865 | 11.804 | 10.594 | 10.544 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 340 | 309 | 347 | 351 |
| Service Time | 8.865 | 9.804 | 8.594 | 8.544 |
| HCM Lane V/C Ratio | 1.388 | 1.065 | 1.334 | 1.493 |
| HCM Control Delay, s/veh | 155.5 | 57.9 | 130.5 | 209.4 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 17.7 | 7.6 | 15.9 | 23 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 2.8 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 0 | 1 | 17 | 1 | 94 | 2 | 441 | 18 | 76 | 293 | 0 |
| Future Vol, veh/h | 1 | 0 | 1 | 17 | 1 | 94 | 2 | 441 | 18 | 76 | 293 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 1 | 0 | 1 | 19 | 1 | 107 | 2 | 501 | 20 | 86 | 333 | 0 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1012 | 1032 | 333 | 1022 | 1022 | 511 | 333 | 0 | 0 | 522 | 0 | 0 |
| Stage 1 | 506 | 506 | - | 516 | 516 | - | - | - | - | - | - | - |
| Stage 2 | 506 | 526 | - | 506 | 506 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.13 | 6.53 | 6.23 | 7.13 | 6.53 | 6.23 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 4.027 | 3.327 | 3.527 | 4.027 | 3.327 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 217 | 232 | 707 | 214 | 235 | 560 | 1221 | - | - | 1040 | - | - |
| Stage 1 | 547 | 538 | - | 540 | 533 | - | - | - | - | - | - | - |
| Stage 2 | 547 | 527 | - | 547 | 538 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 156 | 208 | 707 | 191 | 211 | 560 | 1221 | - | - | 1040 | - | - |
| Mov Cap-2 Maneuver | 156 | 208 | - | 191 | 211 | - | - | - | - | - | - | - |
| Stage 1 | 491 | 483 | - | 539 | 531 | - | - | - | - | - | - | - |
| Stage 2 | 440 | 526 | - | 491 | 483 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 19.18 | 16.92 | 0.03 | 1.81 |
| HCM LOS | C | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 8 | - | - | 256 | 428 | 371 | - | - |
| HCM Lane V/C Ratio | 0.002 | - | - | 0.009 | 0.297 | 0.083 | - | - |
| HCM Control Delay (s/veh) | 8 | 0 | - | 19.2 | 16.9 | 8.8 | 0 | - |
| HCM Lane LOS | A | A | - | C | C | A | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | 1.2 | 0.3 | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 7.6 |

| Movement | WBL | WBR | NBU | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Vol, veh/h | 319 | 14 | 23 | 202 | 482 | 22 | 130 |
| Future Vol, veh/h | 319 | 14 | 23 | 202 | 482 | 22 | 130 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free | Free |
| RT Channelized | - | None | - | - | None | - | None |
| Storage Length | 100 | 0 | 140 | - | 0 | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 |
| Grade, % | 0 | - | - | 0 | - | - | 0 |
| Peak Hour Factor | 82 | 82 | 82 | 82 | 82 | 82 | 82 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 389 | 17 | 28 | 246 | 588 | 27 | 159 |

| Major/Minor | Minor1 | | Major1 | | | Major2 | |
|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 459 | 246 | - | 0 | 0 | 834 | 0 |
| Stage 1 | 246 | - | - | - | - | - | - |
| Stage 2 | 212 | - | - | - | - | - | - |
| Critical Hdwy | 6.43 | 6.23 | - | - | - | 4.13 | - |
| Critical Hdwy Stg 1 | 5.43 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.43 | - | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 3.327 | - | - | - | 2.227 | - |
| Pot Cap-1 Maneuver | 559 | 790 | - | - | - | 795 | - |
| Stage 1 | 792 | - | - | - | - | - | - |
| Stage 2 | 821 | - | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | | - |
| Mov Cap-1 Maneuver | 538 | 790 | - | - | - | 795 | - |
| Mov Cap-2 Maneuver | 538 | - | - | - | - | - | - |
| Stage 1 | 792 | - | - | - | - | - | - |
| Stage 2 | 790 | - | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | 26.5 | | 1.4 |
| HCM LOS | D | | |

| Minor Lane/Major Mvmt | NBU | NBT | NBR | WBLn1 | WBLn2 | SBL | SBT |
|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | 538 | 790 | 261 | - |
| HCM Lane V/C Ratio | - | - | - | 0.723 | 0.022 | 0.034 | - |
| HCM Control Delay (s/veh) | - | - | - | 27.2 | 9.7 | 9.7 | 0 |
| HCM Lane LOS | - | - | - | D | A | A | A |
| HCM 95th %tile Q(veh) | - | - | - | 5.9 | 0.1 | 0.1 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 29.8 |

| Movement | EBU | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Vol, veh/h | 2 | 1187 | 82 | 52 | 1036 | 60 | 77 |
| Future Vol, veh/h | 2 | 1187 | 82 | 52 | 1036 | 60 | 77 |
| Conflicting Peds, #/hr | 0 | 0 | 2 | 2 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | - | None | - | None | - | None |
| Storage Length | 250 | - | 100 | 250 | - | 220 | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | 0 | - |
| Grade, % | - | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 2 | 1290 | 89 | 57 | 1126 | 65 | 84 |

| Major/Minor | Major1 | | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|---|
| Conflicting Flow All | - | 0 | 0 | 1381 | 0 | 2536 | 647 |
| Stage 1 | - | - | - | - | - | 1297 | - |
| Stage 2 | - | - | - | - | - | 1239 | - |
| Critical Hdwy | - | - | - | 4.145 | - | 6.645 | 6.945 |
| Critical Hdwy Stg 1 | - | - | - | - | - | 5.845 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | 5.445 | - |
| Follow-up Hdwy | - | - | - | 2.2285 | - | 3.5285 | 3.3285 |
| Pot Cap-1 Maneuver | - | - | - | 490 | - | ~ 26 | 412 |
| Stage 1 | - | - | - | - | - | 220 | - |
| Stage 2 | - | - | - | - | - | 270 | - |
| Platoon blocked, % | | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | 489 | - | ~ 23 | 412 |
| Mov Cap-2 Maneuver | - | - | - | - | - | ~ 23 | - |
| Stage 1 | - | - | - | - | - | 219 | - |
| Stage 2 | - | - | - | - | - | 239 | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s/v | | 0.64 | $ 537.75 |
| HCM LOS | | | F |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBU | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 23 | 412 | - | - | - | 489 | - |
| HCM Lane V/C Ratio | 2.88 | 0.203 | - | - | - | 0.116 | - |
| HCM Control Delay (s/veh) | $ 1207.4 | 16 | - | - | - | 13.3 | - |
| HCM Lane LOS | F | C | - | - | - | B | - |
| HCM 95th %tile Q(veh) | 8.3 | 0.8 | - | - | - | 0.4 | - |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

# HCM 7th Signalized Intersection Summary
## 6: Minnewawa Avenue & Shepherd Avenue

Near Term plus Pro

04/08/2024

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 75 | 944 | 106 | 128 | 985 | 116 | 139 | 233 | 151 | 97 | 225 | 45 |
| Future Volume (veh/h) | 75 | 944 | 106 | 128 | 985 | 116 | 139 | 233 | 151 | 97 | 225 | 45 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 85 | 1073 | 120 | 145 | 1119 | 132 | 158 | 265 | 172 | 110 | 256 | 51 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 225 | 1813 | 809 | 170 | 875 | 741 | 120 | 309 | 262 | 106 | 311 | 263 |
| Arrive On Green | 0.13 | 0.51 | 0.51 | 0.10 | 0.47 | 0.47 | 0.07 | 0.17 | 0.17 | 0.06 | 0.17 | 0.17 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 85 | 1073 | 120 | 145 | 1119 | 132 | 158 | 265 | 172 | 110 | 256 | 51 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 5.7 | 27.6 | 5.2 | 10.5 | 61.3 | 6.3 | 8.8 | 18.0 | 10.6 | 7.8 | 17.3 | 2.7 |
| Cycle Q Clear(g_c), s | 5.7 | 27.6 | 5.2 | 10.5 | 61.3 | 6.3 | 8.8 | 18.0 | 10.6 | 7.8 | 17.3 | 2.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 225 | 1813 | 809 | 170 | 875 | 741 | 120 | 309 | 262 | 106 | 311 | 263 |
| V/C Ratio(X) | 0.38 | 0.59 | 0.15 | 0.85 | 1.28 | 0.18 | 1.32 | 0.86 | 0.66 | 1.04 | 0.82 | 0.19 |
| Avail Cap(c_a), veh/h | 225 | 1813 | 809 | 188 | 875 | 741 | 120 | 481 | 408 | 106 | 457 | 387 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 52.0 | 22.0 | 16.6 | 57.9 | 34.3 | 19.8 | 60.6 | 52.7 | 32.2 | 61.1 | 52.3 | 25.4 |
| Incr Delay (d2), s/veh | 1.0 | 1.4 | 0.4 | 28.1 | 134.3 | 0.5 | 191.1 | 9.0 | 2.8 | 97.8 | 7.7 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.5 | 11.0 | 1.9 | 5.9 | 58.0 | 2.3 | 10.2 | 9.0 | 4.1 | 6.3 | 8.4 | 1.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 53.1 | 23.5 | 17.0 | 86.0 | 168.7 | 20.3 | 251.7 | 61.7 | 35.0 | 158.9 | 59.9 | 25.8 |
| LnGrp LOS | D | C | B | F | F | C | F | E | C | F | E | C |
| Approach Vol, veh/h | | 1278 | | | 1396 | | | 595 | | | 417 | |
| Approach Delay, s/veh | | 24.8 | | | 146.1 | | | 104.4 | | | 81.9 | |
| Approach LOS | | C | | | F | | | F | | | F | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.8 | 27.0 | 16.7 | 72.6 | 13.0 | 27.8 | 22.2 | 67.0 |
| Change Period (Y+Rc), s | 6.0 | * 5.3 | 4.2 | 5.7 | 4.2 | 6.0 | 5.7 | * 5.7 |
| Max Green Setting (Gmax), s | 7.8 | * 34 | 13.8 | 55.3 | 8.8 | 32.0 | 7.8 | * 61 |
| Max Q Clear Time (g_c+I1), s | 9.8 | 20.0 | 12.5 | 29.6 | 10.8 | 19.3 | 7.7 | 63.3 |
| Green Ext Time (p_c), s | 0.0 | 1.6 | 0.0 | 8.0 | 0.0 | 1.1 | 0.0 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 90.1 |
| HCM 7th LOS | F |

**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

# HCM 7th Signalized Intersection Summary
## 7: Clovis Avenue & Shepherd Avenue

Near Term plus Pro

04/08/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 222 | 778 | 137 | 151 | 909 | 159 | 205 | 392 | 182 | 109 | 245 | 118 |
| Future Volume (veh/h) | 222 | 778 | 137 | 151 | 909 | 159 | 205 | 392 | 182 | 109 | 245 | 118 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 255 | 894 | 157 | 174 | 1045 | 183 | 236 | 451 | 209 | 125 | 282 | 136 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 285 | 1030 | 459 | 957 | 1762 | 786 | 260 | 735 | 328 | 203 | 426 | 189 |
| Arrive On Green | 0.08 | 0.29 | 0.29 | 0.28 | 0.50 | 0.50 | 0.15 | 0.21 | 0.21 | 0.06 | 0.12 | 0.12 |
| Sat Flow, veh/h | 3428 | 3526 | 1572 | 3428 | 3526 | 1572 | 1767 | 3526 | 1570 | 3428 | 3526 | 1569 |
| Grp Volume(v), veh/h | 255 | 894 | 157 | 174 | 1045 | 183 | 236 | 451 | 209 | 125 | 282 | 136 |
| Grp Sat Flow(s),veh/h/ln | 1714 | 1763 | 1572 | 1714 | 1763 | 1572 | 1767 | 1763 | 1570 | 1714 | 1763 | 1569 |
| Q Serve(g_s), s | 9.6 | 31.3 | 7.0 | 5.0 | 27.4 | 8.6 | 17.1 | 15.1 | 8.5 | 4.6 | 9.9 | 10.9 |
| Cycle Q Clear(g_c), s | 9.6 | 31.3 | 7.0 | 5.0 | 27.4 | 8.6 | 17.1 | 15.1 | 8.5 | 4.6 | 9.9 | 10.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 285 | 1030 | 459 | 957 | 1762 | 786 | 260 | 735 | 328 | 203 | 426 | 189 |
| V/C Ratio(X) | 0.90 | 0.87 | 0.34 | 0.18 | 0.59 | 0.23 | 0.91 | 0.61 | 0.64 | 0.61 | 0.66 | 0.72 |
| Avail Cap(c_a), veh/h | 285 | 1220 | 544 | 957 | 1762 | 786 | 269 | 1302 | 580 | 232 | 1003 | 446 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 59.0 | 43.6 | 17.0 | 35.6 | 23.1 | 18.4 | 54.6 | 46.7 | 13.7 | 59.7 | 54.6 | 55.0 |
| Incr Delay (d2), s/veh | 28.2 | 9.9 | 2.0 | 0.1 | 1.5 | 0.7 | 31.2 | 0.8 | 2.1 | 3.8 | 1.8 | 5.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 5.2 | 14.5 | 3.9 | 2.0 | 11.0 | 3.1 | 9.7 | 6.5 | 5.7 | 2.1 | 4.4 | 4.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 87.3 | 53.5 | 19.0 | 35.7 | 24.6 | 19.1 | 85.8 | 47.5 | 15.8 | 63.5 | 56.4 | 60.1 |
| LnGrp LOS | F | D | B | D | C | B | F | D | B | E | E | E |
| Approach Vol, veh/h | | 1306 | | | 1402 | | | 896 | | | 543 | |
| Approach Delay, s/veh | | 56.0 | | | 25.3 | | | 50.2 | | | 58.9 | |
| Approach LOS | | E | | | C | | | D | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 11.9 | 32.4 | 42.0 | 43.7 | 23.3 | 21.0 | 15.0 | 70.7 |
| Change Period (Y+Rc), s | 4.2 | 5.3 | 5.7 | * 5.7 | 4.2 | 5.3 | 4.2 | 5.7 |
| Max Green Setting (Gmax), s | 8.8 | 48.0 | 8.8 | * 45 | 19.8 | 37.0 | 10.8 | 43.0 |
| Max Q Clear Time (g_c+I1), s | 6.6 | 17.1 | 7.0 | 33.3 | 19.1 | 12.9 | 11.6 | 29.4 |
| Green Ext Time (p_c), s | 0.1 | 3.6 | 0.1 | 4.7 | 0.1 | 2.0 | 0.0 | 6.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 44.7 |
| HCM 7th LOS | D |

**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

# HCM 7th Signalized Intersection Summary
## 1: Minnewawa Avenue & Behymer Avenue

Near Term plus Pro

04/10/2024

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 2 | 159 | 84 | 6 | 219 | 259 | 147 | 299 | 9 | 147 | 291 | 1 |
| Future Volume (veh/h) | 2 | 159 | 84 | 6 | 219 | 259 | 147 | 299 | 9 | 147 | 291 | 1 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 2 | 164 | 87 | 6 | 226 | 267 | 152 | 308 | 9 | 152 | 300 | 1 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 8 | 370 | 196 | 22 | 258 | 304 | 206 | 392 | 11 | 206 | 404 | 1 |
| Arrive On Green | 0.00 | 0.32 | 0.32 | 0.01 | 0.33 | 0.33 | 0.12 | 0.22 | 0.22 | 0.12 | 0.22 | 0.22 |
| Sat Flow, veh/h | 1767 | 1141 | 605 | 1767 | 775 | 916 | 1767 | 1794 | 52 | 1767 | 1848 | 6 |
| Grp Volume(v), veh/h | 2 | 0 | 251 | 6 | 0 | 493 | 152 | 0 | 317 | 152 | 0 | 301 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 0 | 1747 | 1767 | 0 | 1691 | 1767 | 0 | 1846 | 1767 | 0 | 1854 |
| Q Serve(g_s), s | 0.1 | 0.0 | 7.0 | 0.2 | 0.0 | 17.1 | 5.2 | 0.0 | 10.1 | 5.2 | 0.0 | 9.4 |
| Cycle Q Clear(g_c), s | 0.1 | 0.0 | 7.0 | 0.2 | 0.0 | 17.1 | 5.2 | 0.0 | 10.1 | 5.2 | 0.0 | 9.4 |
| Prop In Lane | 1.00 | | 0.35 | 1.00 | | 0.54 | 1.00 | | 0.03 | 1.00 | | 0.00 |
| Lane Grp Cap(c), veh/h | 8 | 0 | 567 | 22 | 0 | 562 | 206 | 0 | 404 | 206 | 0 | 406 |
| V/C Ratio(X) | 0.27 | 0.00 | 0.44 | 0.27 | 0.00 | 0.88 | 0.74 | 0.00 | 0.78 | 0.74 | 0.00 | 0.74 |
| Avail Cap(c_a), veh/h | 222 | 0 | 730 | 222 | 0 | 707 | 250 | 0 | 802 | 250 | 0 | 805 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 30.9 | 0.0 | 16.6 | 30.4 | 0.0 | 19.6 | 26.6 | 0.0 | 22.9 | 26.6 | 0.0 | 22.6 |
| Incr Delay (d2), s/veh | 17.7 | 0.0 | 0.5 | 6.6 | 0.0 | 10.1 | 8.9 | 0.0 | 3.4 | 8.9 | 0.0 | 2.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.1 | 0.0 | 2.3 | 0.1 | 0.0 | 6.8 | 2.4 | 0.0 | 4.0 | 2.4 | 0.0 | 3.7 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 48.6 | 0.0 | 17.1 | 37.0 | 0.0 | 29.7 | 35.4 | 0.0 | 26.3 | 35.4 | 0.0 | 25.3 |
| LnGrp LOS | D | | B | D | | C | D | | C | D | | C |
| Approach Vol, veh/h | | 253 | | | 499 | | | 469 | | | 453 | |
| Approach Delay, s/veh | | 17.4 | | | 29.8 | | | 29.3 | | | 28.7 | |
| Approach LOS | | B | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 11.4 | 19.6 | 5.0 | 26.2 | 11.4 | 19.6 | 4.5 | 26.7 |
| Change Period (Y+Rc), s | 4.2 | 6.0 | 4.2 | 6.0 | 4.2 | 6.0 | 4.2 | 6.0 |
| Max Green Setting (Gmax), s | 8.8 | 27.0 | 7.8 | 26.0 | 8.8 | 27.0 | 7.8 | 26.0 |
| Max Q Clear Time (g_c+I1), s | 7.2 | 12.1 | 2.2 | 9.0 | 7.2 | 11.4 | 2.1 | 19.1 |
| Green Ext Time (p_c), s | 0.1 | 1.3 | 0.0 | 1.1 | 0.1 | 1.2 | 0.0 | 1.6 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 27.5 |
| HCM 7th LOS | C |

# HCM 7th Signalized Intersection Summary
## 5: Peach Avenue & Shepherd Avenue

Near Term plus Pro

04/10/2024



| Movement | EBU | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Volume (veh/h) | 0 | 950 | 105 | 99 | 836 | 30 | 86 |
| Future Volume (veh/h) | 0 | 950 | 105 | 99 | 836 | 30 | 86 |
| Initial Q (Qb), veh | | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | | | 1.00 | 1.00 | | 1.00 | 1.00 |
| Parking Bus, Adj | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | | 1080 | 119 | 112 | 950 | 34 | 98 |
| Peak Hour Factor | | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Percent Heavy Veh, % | | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | | 1271 | 566 | 752 | 2933 | 140 | 125 |
| Arrive On Green | | 0.36 | 0.36 | 0.85 | 1.00 | 0.08 | 0.08 |
| Sat Flow, veh/h | | 3618 | 1570 | 1767 | 3618 | 1767 | 1572 |
| Grp Volume(v), veh/h | | 1080 | 119 | 112 | 950 | 34 | 98 |
| Grp Sat Flow(s),veh/h/ln | | 1763 | 1570 | 1767 | 1763 | 1767 | 1572 |
| Q Serve(g_s), s | | 35.0 | 6.5 | 1.3 | 0.0 | 2.2 | 7.6 |
| Cycle Q Clear(g_c), s | | 35.0 | 6.5 | 1.3 | 0.0 | 2.2 | 7.6 |
| Prop In Lane | | | 1.00 | 1.00 | | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | | 1271 | 566 | 752 | 2933 | 140 | 125 |
| V/C Ratio(X) | | 0.85 | 0.21 | 0.15 | 0.32 | 0.24 | 0.79 |
| Avail Cap(c_a), veh/h | | 1686 | 751 | 752 | 2933 | 466 | 415 |
| HCM Platoon Ratio | | 1.00 | 1.00 | 2.00 | 2.00 | 1.00 | 1.00 |
| Upstream Filter(I) | | 1.00 | 1.00 | 0.74 | 0.74 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | | 36.5 | 27.4 | 5.4 | 0.0 | 53.6 | 56.1 |
| Incr Delay (d2), s/veh | | 7.2 | 0.8 | 0.1 | 0.2 | 0.9 | 10.4 |
| Initial Q Delay(d3), s/veh | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | | 15.5 | 2.5 | 0.5 | 0.1 | 1.0 | 3.3 |
| Unsig. Movement Delay, s/veh | | | | | | | |
| LnGrp Delay(d), s/veh | | 43.8 | 28.3 | 5.5 | 0.2 | 54.5 | 66.4 |
| LnGrp LOS | | D | C | A | A | D | E |
| Approach Vol, veh/h | | 1199 | | | 1062 | 132 | |
| Approach Delay, s/veh | | 42.2 | | | 0.8 | 63.4 | |
| Approach LOS | | D | | | A | E | |

| Timer - Assigned Phs | 2 | 3 | 4 | | | 8 |
|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 15.1 | 58.5 | 50.4 | | | 108.9 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | * 5.7 | | | 5.7 |
| Max Green Setting (Gmax), s | 32.7 | 16.8 | * 59 | | | 68.3 |
| Max Q Clear Time (g_c+I1), s | 9.6 | 3.3 | 37.0 | | | 2.0 |
| Green Ext Time (p_c), s | 0.3 | 0.2 | 7.7 | | | 7.3 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 25.0 |
| HCM 7th LOS | C |

**Notes**

User approved ignoring U-Turning movement.

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 40 | 850 | 125 | 201 | 858 | 117 | 142 | 174 | 70 | 123 | 234 | 55 |
| Future Volume (veh/h) | 40 | 850 | 125 | 201 | 858 | 117 | 142 | 174 | 70 | 123 | 234 | 55 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 43 | 904 | 133 | 214 | 913 | 124 | 151 | 185 | 74 | 131 | 249 | 59 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 418 | 1572 | 701 | 240 | 1040 | 141 | 177 | 311 | 263 | 156 | 289 | 245 |
| Arrive On Green | 0.47 | 0.89 | 0.89 | 0.14 | 0.33 | 0.33 | 0.10 | 0.17 | 0.17 | 0.09 | 0.16 | 0.16 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 3119 | 424 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 43 | 904 | 133 | 214 | 516 | 521 | 151 | 185 | 74 | 131 | 249 | 59 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1763 | 1779 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 1.7 | 7.1 | 1.4 | 14.8 | 34.2 | 34.2 | 10.4 | 11.4 | 5.1 | 9.0 | 16.2 | 2.5 |
| Cycle Q Clear(g_c), s | 1.7 | 7.1 | 1.4 | 14.8 | 34.2 | 34.2 | 10.4 | 11.4 | 5.1 | 9.0 | 16.2 | 2.5 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.24 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 418 | 1572 | 701 | 240 | 588 | 593 | 177 | 311 | 263 | 156 | 289 | 245 |
| V/C Ratio(X) | 0.10 | 0.57 | 0.19 | 0.89 | 0.88 | 0.88 | 0.85 | 0.60 | 0.28 | 0.84 | 0.86 | 0.24 |
| Avail Cap(c_a), veh/h | 418 | 1572 | 701 | 268 | 715 | 722 | 197 | 504 | 427 | 182 | 479 | 406 |
| HCM Platoon Ratio | 2.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.88 | 0.88 | 0.88 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 25.4 | 4.1 | 3.8 | 52.7 | 38.9 | 39.0 | 54.9 | 47.7 | 45.1 | 55.6 | 51.0 | 17.0 |
| Incr Delay (d2), s/veh | 0.1 | 1.4 | 0.5 | 26.9 | 16.9 | 16.7 | 26.9 | 1.8 | 0.6 | 24.7 | 8.4 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.7 | 1.7 | 0.5 | 8.1 | 16.8 | 16.9 | 5.8 | 5.3 | 2.0 | 5.0 | 7.9 | 1.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 25.5 | 5.4 | 4.3 | 79.6 | 55.8 | 55.7 | 81.8 | 49.6 | 45.7 | 80.4 | 59.4 | 17.5 |
| LnGrp LOS | C | A | A | E | E | E | F | D | D | F | E | B |
| Approach Vol, veh/h | | 1080 | | | 1251 | | | 410 | | | 439 | |
| Approach Delay, s/veh | | 6.1 | | | 59.8 | | | 60.7 | | | 60.0 | |
| Approach LOS | | A | | | E | | | E | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 15.2 | 26.8 | 21.1 | 61.0 | 16.6 | 25.3 | 35.0 | 47.0 |
| Change Period (Y+Rc), s | 4.2 | * 6 | 4.2 | 5.7 | 4.2 | 6.0 | 5.7 | * 5.7 |
| Max Green Setting (Gmax), s | 12.8 | * 34 | 18.8 | 39.3 | 13.8 | 32.0 | 7.8 | * 50 |
| Max Q Clear Time (g_c+I1), s | 11.0 | 13.4 | 16.8 | 9.1 | 12.4 | 18.2 | 3.7 | 36.2 |
| Green Ext Time (p_c), s | 0.0 | 1.1 | 0.1 | 6.8 | 0.0 | 1.1 | 0.0 | 5.1 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 41.7 |
| HCM 7th LOS | D |

**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

# HCM 7th Signalized Intersection Summary
## 1: Minnewawa Avenue & Behymer Avenue

Near Term plus Pro

04/10/2024

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 3 | 208 | 75 | 5 | 188 | 210 | 91 | 304 | 16 | 184 | 266 | 6 |
| Future Volume (veh/h) | 3 | 208 | 75 | 5 | 188 | 210 | 91 | 304 | 16 | 184 | 266 | 6 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 3 | 239 | 86 | 6 | 216 | 241 | 105 | 349 | 18 | 211 | 306 | 7 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 11 | 392 | 141 | 22 | 246 | 274 | 176 | 420 | 22 | 253 | 512 | 12 |
| Arrive On Green | 0.01 | 0.30 | 0.30 | 0.01 | 0.31 | 0.31 | 0.10 | 0.24 | 0.24 | 0.14 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1767 | 1302 | 469 | 1767 | 801 | 894 | 1767 | 1749 | 90 | 1767 | 1807 | 41 |
| Grp Volume(v), veh/h | 3 | 0 | 325 | 6 | 0 | 457 | 105 | 0 | 367 | 211 | 0 | 313 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 0 | 1771 | 1767 | 0 | 1695 | 1767 | 0 | 1839 | 1767 | 0 | 1848 |
| Q Serve(g_s), s | 0.1 | 0.0 | 10.5 | 0.2 | 0.0 | 17.2 | 3.8 | 0.0 | 12.7 | 7.8 | 0.0 | 9.8 |
| Cycle Q Clear(g_c), s | 0.1 | 0.0 | 10.5 | 0.2 | 0.0 | 17.2 | 3.8 | 0.0 | 12.7 | 7.8 | 0.0 | 9.8 |
| Prop In Lane | 1.00 | | 0.26 | 1.00 | | 0.53 | 1.00 | | 0.05 | 1.00 | | 0.02 |
| Lane Grp Cap(c), veh/h | 11 | 0 | 533 | 22 | 0 | 520 | 176 | 0 | 441 | 253 | 0 | 523 |
| V/C Ratio(X) | 0.27 | 0.00 | 0.61 | 0.28 | 0.00 | 0.88 | 0.60 | 0.00 | 0.83 | 0.83 | 0.00 | 0.60 |
| Avail Cap(c_a), veh/h | 205 | 0 | 686 | 205 | 0 | 656 | 205 | 0 | 712 | 258 | 0 | 771 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 33.2 | 0.0 | 20.1 | 32.9 | 0.0 | 22.1 | 28.9 | 0.0 | 24.2 | 28.0 | 0.0 | 20.8 |
| Incr Delay (d2), s/veh | 12.3 | 0.0 | 1.1 | 6.7 | 0.0 | 10.9 | 3.5 | 0.0 | 4.6 | 20.2 | 0.0 | 1.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.1 | 0.0 | 3.8 | 0.1 | 0.0 | 7.2 | 1.6 | 0.0 | 5.2 | 4.3 | 0.0 | 3.7 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 45.5 | 0.0 | 21.2 | 39.6 | 0.0 | 33.0 | 32.4 | 0.0 | 28.8 | 48.2 | 0.0 | 21.9 |
| LnGrp LOS | D | | C | D | | C | C | | C | D | | C |
| Approach Vol, veh/h | | 328 | | | 463 | | | 472 | | | 524 | |
| Approach Delay, s/veh | | 21.5 | | | 33.1 | | | 29.6 | | | 32.5 | |
| Approach LOS | | C | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.8 | 22.1 | 5.0 | 26.2 | 10.9 | 25.0 | 4.6 | 26.6 |
| Change Period (Y+Rc), s | 4.2 | 6.0 | 4.2 | 6.0 | 4.2 | 6.0 | 4.2 | 6.0 |
| Max Green Setting (Gmax), s | 9.8 | 26.0 | 7.8 | 26.0 | 7.8 | 28.0 | 7.8 | 26.0 |
| Max Q Clear Time (g_c+I1), s | 9.8 | 14.7 | 2.2 | 12.5 | 5.8 | 11.8 | 2.1 | 19.2 |
| Green Ext Time (p_c), s | 0.0 | 1.4 | 0.0 | 1.3 | 0.0 | 1.3 | 0.0 | 1.4 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 29.9 |
| HCM 7th LOS | C |

# HCM 7th Signalized Intersection Summary
## 5: Peach Avenue & Shepherd Avenue

Near Term plus Pro

04/10/2024



| Movement | EBU | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Volume (veh/h) | 2 | 1187 | 82 | 52 | 1036 | 60 | 77 |
| Future Volume (veh/h) | 2 | 1187 | 82 | 52 | 1036 | 60 | 77 |
| Initial Q (Qb), veh | | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | | | 1.00 | 1.00 | | 1.00 | 1.00 |
| Parking Bus, Adj | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | | 1290 | 89 | 57 | 1126 | 65 | 84 |
| Peak Hour Factor | | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | | 1502 | 668 | 650 | 2962 | 126 | 112 |
| Arrive On Green | | 0.43 | 0.43 | 0.74 | 1.00 | 0.07 | 0.07 |
| Sat Flow, veh/h | | 3618 | 1569 | 1767 | 3618 | 1767 | 1572 |
| Grp Volume(v), veh/h | | 1290 | 89 | 57 | 1126 | 65 | 84 |
| Grp Sat Flow(s),veh/h/ln | | 1763 | 1569 | 1767 | 1763 | 1767 | 1572 |
| Q Serve(g_s), s | | 41.1 | 4.3 | 1.1 | 0.0 | 4.4 | 6.5 |
| Cycle Q Clear(g_c), s | | 41.1 | 4.3 | 1.1 | 0.0 | 4.4 | 6.5 |
| Prop In Lane | | | 1.00 | 1.00 | | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | | 1502 | 668 | 650 | 2962 | 126 | 112 |
| V/C Ratio(X) | | 0.86 | 0.13 | 0.09 | 0.38 | 0.52 | 0.75 |
| Avail Cap(c_a), veh/h | | 1913 | 851 | 650 | 2962 | 466 | 415 |
| HCM Platoon Ratio | | 1.00 | 1.00 | 2.00 | 2.00 | 1.00 | 1.00 |
| Upstream Filter(I) | | 1.00 | 1.00 | 0.60 | 0.60 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | | 32.2 | 21.6 | 10.5 | 0.0 | 55.5 | 56.5 |
| Incr Delay (d2), s/veh | | 6.6 | 0.4 | 0.0 | 0.2 | 3.2 | 9.6 |
| Initial Q Delay(d3), s/veh | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | | 17.6 | 1.6 | 0.4 | 0.1 | 2.0 | 2.8 |
| Unsig. Movement Delay, s/veh | | | | | | | |
| LnGrp Delay(d), s/veh | | 38.8 | 22.1 | 10.5 | 0.2 | 58.8 | 66.1 |
| LnGrp LOS | | D | C | B | A | E | E |
| Approach Vol, veh/h | | 1379 | | | 1183 | 149 | |
| Approach Delay, s/veh | | 37.7 | | | 0.7 | 62.9 | |
| Approach LOS | | D | | | A | E | |

| Timer - Assigned Phs | 2 | 3 | 4 | | | 8 |
|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 14.1 | 51.3 | 58.5 | | | 109.9 |
| Change Period (Y+Rc), s | 5.3 | 5.7 | * 5.7 | | | 5.7 |
| Max Green Setting (Gmax), s | 32.7 | 8.8 | * 67 | | | 68.3 |
| Max Q Clear Time (g_c+I1), s | 8.5 | 3.1 | 43.1 | | | 2.0 |
| Green Ext Time (p_c), s | 0.4 | 0.0 | 9.8 | | | 9.4 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 23.0 |
| HCM 7th LOS | C |

**Notes**

User approved ignoring U-Turning movement.

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

# HCM 7th Signalized Intersection Summary
## 6: Minnewawa Avenue & Shepherd Avenue

Near Term plus Pro

04/10/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 75 | 944 | 106 | 128 | 985 | 116 | 139 | 233 | 151 | 97 | 225 | 45 |
| Future Volume (veh/h) | 75 | 944 | 106 | 128 | 985 | 116 | 139 | 233 | 151 | 97 | 225 | 45 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 85 | 1073 | 120 | 145 | 1119 | 132 | 158 | 265 | 172 | 110 | 256 | 51 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 313 | 1688 | 753 | 170 | 1225 | 144 | 182 | 312 | 265 | 151 | 296 | 251 |
| Arrive On Green | 0.24 | 0.64 | 0.64 | 0.10 | 0.39 | 0.39 | 0.10 | 0.17 | 0.17 | 0.09 | 0.16 | 0.16 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 3177 | 374 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 85 | 1073 | 120 | 145 | 620 | 631 | 158 | 265 | 172 | 110 | 256 | 51 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1763 | 1788 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 4.9 | 23.0 | 3.8 | 10.0 | 41.3 | 41.5 | 10.9 | 17.2 | 10.0 | 7.5 | 16.7 | 2.4 |
| Cycle Q Clear(g_c), s | 4.9 | 23.0 | 3.8 | 10.0 | 41.3 | 41.5 | 10.9 | 17.2 | 10.0 | 7.5 | 16.7 | 2.4 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.21 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 313 | 1688 | 753 | 170 | 680 | 690 | 182 | 312 | 265 | 151 | 296 | 251 |
| V/C Ratio(X) | 0.27 | 0.64 | 0.16 | 0.85 | 0.91 | 0.91 | 0.87 | 0.85 | 0.65 | 0.73 | 0.86 | 0.20 |
| Avail Cap(c_a), veh/h | 313 | 1688 | 753 | 182 | 729 | 740 | 182 | 519 | 440 | 154 | 479 | 406 |
| HCM Platoon Ratio | 1.33 | 1.33 | 1.33 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.84 | 0.84 | 0.84 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 40.8 | 15.9 | 12.4 | 55.1 | 36.1 | 36.1 | 54.8 | 50.0 | 30.2 | 55.3 | 50.8 | 20.7 |
| Incr Delay (d2), s/veh | 0.4 | 1.5 | 0.4 | 28.6 | 18.6 | 18.8 | 32.7 | 6.8 | 2.7 | 15.7 | 9.1 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.1 | 7.1 | 1.3 | 5.7 | 20.1 | 20.5 | 6.4 | 8.3 | 3.8 | 3.9 | 8.2 | 1.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 41.2 | 17.5 | 12.8 | 83.8 | 54.7 | 54.9 | 87.5 | 56.8 | 32.9 | 71.0 | 60.0 | 21.1 |
| LnGrp LOS | D | B | B | F | D | D | F | E | C | E | E | C |
| Approach Vol, veh/h | | 1278 | | | 1396 | | | 595 | | | 417 | |
| Approach Delay, s/veh | | 18.6 | | | 57.8 | | | 58.0 | | | 58.1 | |
| Approach LOS | | B | | | E | | | E | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 16.6 | 26.2 | 16.2 | 65.1 | 17.0 | 25.8 | 27.7 | 53.5 |
| Change Period (Y+Rc), s | 6.0 | * 5.3 | 4.2 | 5.7 | 4.2 | 6.0 | 5.7 | * 5.7 |
| Max Green Setting (Gmax), s | 10.6 | * 35 | 12.8 | 46.3 | 12.8 | 32.0 | 7.8 | * 51 |
| Max Q Clear Time (g_c+I1), s | 19.5 | 19.2 | 12.0 | 25.0 | 12.9 | 18.7 | 6.9 | 43.5 |
| Green Ext Time (p_c), s | 0.0 | 1.7 | 0.0 | 7.5 | 0.0 | 1.1 | 0.0 | 4.3 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 44.3 |
| HCM 7th LOS | D |

**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

## Intersection: 1: Minnewawa Avenue & Behymer Avenue

| Movement | EB | EB | WB | WB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|---|---|
| Directions Served | L | TR | L | TR | L | TR | L | TR |
| Maximum Queue (ft) | 23 | 128 | 31 | 374 | 182 | 249 | 181 | 204 |
| Average Queue (ft) | 1 | 69 | 8 | 177 | 75 | 113 | 95 | 96 |
| 95th Queue (ft) | 9 | 109 | 28 | 309 | 130 | 191 | 158 | 163 |
| Link Distance (ft) | | 2601 | | 3212 | | 2588 | | 2588 |
| Upstream Blk Time (%) | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | |
| Storage Bay Dist (ft) | 250 | | 250 | | 250 | | 250 | |
| Storage Blk Time (%) | | | | 3 | | 0 | | |
| Queuing Penalty (veh) | | | | 0 | | 0 | | |

## Intersection: 2: Minnewawa Avenue & Perrin Avenue

| Movement | EB | WB | SB |
|---|---|---|---|
| Directions Served | LTR | LTR | LTR |
| Maximum Queue (ft) | 25 | 94 | 85 |
| Average Queue (ft) | 5 | 41 | 22 |
| 95th Queue (ft) | 22 | 70 | 61 |
| Link Distance (ft) | 4816 | 1433 | 2588 |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

## Intersection: 4: Clovis Avenue & Baron Avenue

| Movement | WB | WB | NB | SB |
|---|---|---|---|---|
| Directions Served | L | R | U | LT |
| Maximum Queue (ft) | 200 | 379 | 31 | 50 |
| Average Queue (ft) | 107 | 44 | 8 | 3 |
| 95th Queue (ft) | 193 | 184 | 29 | 19 |
| Link Distance (ft) | | 1517 | | 1658 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | 100 | | 140 | |
| Storage Blk Time (%) | 15 | | | |
| Queuing Penalty (veh) | 6 | | | |

## Intersection: 5: Peach Avenue & Shepherd Avenue

| Movement | EB | EB | EB | WB | WB | WB | NB | NB |
|---|---|---|---|---|---|---|---|---|
| Directions Served | T | T | R | L | T | T | L | R |
| Maximum Queue (ft) | 323 | 340 | 180 | 159 | 186 | 199 | 109 | 64 |
| Average Queue (ft) | 96 | 100 | 29 | 76 | 48 | 60 | 25 | 25 |
| 95th Queue (ft) | 218 | 228 | 101 | 139 | 148 | 166 | 72 | 53 |
| Link Distance (ft) | 2694 | 2694 | | | 2549 | 2549 | | 2538 |
| Upstream Blk Time (%) | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | |
| Storage Bay Dist (ft) | | | 100 | 250 | | | 220 | |
| Storage Blk Time (%) | 1 | 6 | | | | | | |
| Queuing Penalty (veh) | 0 | 7 | | | | | | |

## Intersection: 6: Minnewawa Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | WB | WB | WB | NB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | L | T | T | R | L | T | TR | L | T | R | L | T |
| Maximum Queue (ft) | 113 | 348 | 411 | 150 | 339 | 363 | 368 | 241 | 235 | 84 | 160 | 310 |
| Average Queue (ft) | 36 | 176 | 198 | 63 | 147 | 138 | 145 | 102 | 103 | 28 | 93 | 174 |
| 95th Queue (ft) | 85 | 305 | 340 | 158 | 262 | 303 | 300 | 180 | 186 | 62 | 139 | 266 |
| Link Distance (ft) | | 2549 | 2549 | | | 1269 | 1269 | | 2555 | 2555 | | 2578 |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 240 | | | 50 | 220 | | | 230 | | | 260 | |
| Storage Blk Time (%) | | 3 | 39 | 2 | 0 | 6 | | 0 | 0 | | | 60 |
| Queuing Penalty (veh) | | 1 | 49 | 7 | 2 | 12 | | 0 | 0 | | | 107 |

## Intersection: 6: Minnewawa Avenue & Shepherd Avenue

| Movement | SB |
|---|---|
| Directions Served | R |
| Maximum Queue (ft) | 45 |
| Average Queue (ft) | 27 |
| 95th Queue (ft) | 46 |
| Link Distance (ft) | |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | 15 |
| Storage Blk Time (%) | 6 |
| Queuing Penalty (veh) | 22 |

## Intersection: 7: Clovis Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | EB | WB | WB | WB | WB | WB | NB | NB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | L | L | T | T | R | L | L | T | T | R | L | T |
| Maximum Queue (ft) | 96 | 302 | 405 | 392 | 110 | 185 | 237 | 317 | 296 | 275 | 219 | 139 |
| Average Queue (ft) | 41 | 67 | 133 | 96 | 38 | 76 | 100 | 175 | 174 | 32 | 112 | 59 |
| 95th Queue (ft) | 88 | 155 | 293 | 258 | 101 | 129 | 163 | 286 | 286 | 140 | 179 | 113 |
| Link Distance (ft) | | | 1207 | 1207 | | | | 2012 | 2012 | | | 2554 |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 250 | 250 | | | 50 | 250 | 250 | | | 175 | 230 | |
| Storage Blk Time (%) | | 0 | 2 | 10 | 2 | | 0 | 1 | 8 | | 0 | |
| Queuing Penalty (veh) | | 0 | 2 | 16 | 8 | | 0 | 3 | 7 | | 0 | |

## Intersection: 7: Clovis Avenue & Shepherd Avenue

| Movement | NB | NB | SB | SB | SB | SB | SB |
|---|---|---|---|---|---|---|---|
| Directions Served | T | R | L | L | T | T | R |
| Maximum Queue (ft) | 175 | 100 | 182 | 187 | 187 | 192 | 91 |
| Average Queue (ft) | 60 | 28 | 56 | 48 | 112 | 117 | 47 |
| 95th Queue (ft) | 116 | 69 | 111 | 104 | 170 | 172 | 83 |
| Link Distance (ft) | 2554 | | | | 1269 | 1269 | |
| Upstream Blk Time (%) | | | | | | | |
| Queuing Penalty (veh) | | | | | | | |
| Storage Bay Dist (ft) | | 50 | 250 | 250 | | | 100 |
| Storage Blk Time (%) | 16 | 1 | | | | 15 | 0 |
| Queuing Penalty (veh) | 13 | 1 | | | | 26 | 1 |

## Network Summary

Network wide Queuing Penalty: 289

## Intersection: 1: Minnewawa Avenue & Behymer Avenue

| Movement | EB | EB | WB | WB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|---|---|
| Directions Served | L | TR | L | TR | L | TR | L | TR |
| Maximum Queue (ft) | 30 | 181 | 53 | 204 | 118 | 310 | 186 | 202 |
| Average Queue (ft) | 4 | 88 | 5 | 100 | 53 | 125 | 100 | 82 |
| 95th Queue (ft) | 20 | 150 | 27 | 172 | 97 | 210 | 171 | 154 |
| Link Distance (ft) | | 2601 | | 3212 | | 2588 | | 2588 |
| Upstream Blk Time (%) | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | |
| Storage Bay Dist (ft) | 250 | | 250 | | 250 | | 250 | |
| Storage Blk Time (%) | | | | | | 0 | | |
| Queuing Penalty (veh) | | | | | | 0 | | |

## Intersection: 2: Minnewawa Avenue & Perrin Avenue

| Movement | EB | WB | SB |
|---|---|---|---|
| Directions Served | LTR | LTR | LTR |
| Maximum Queue (ft) | 23 | 96 | 131 |
| Average Queue (ft) | 1 | 43 | 30 |
| 95th Queue (ft) | 8 | 79 | 89 |
| Link Distance (ft) | 4816 | 1429 | 2588 |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

## Intersection: 4: Clovis Avenue & Baron Avenue

| Movement | WB | WB | NB | NB | SB |
|---|---|---|---|---|---|
| Directions Served | L | R | U | R | LT |
| Maximum Queue (ft) | 172 | 20 | 29 | 22 | 74 |
| Average Queue (ft) | 75 | 9 | 4 | 2 | 21 |
| 95th Queue (ft) | 133 | 24 | 21 | 13 | 65 |
| Link Distance (ft) | | 1505 | | 1268 | 1679 |
| Upstream Blk Time (%) | | | | | |
| Queuing Penalty (veh) | | | | | |
| Storage Bay Dist (ft) | 100 | | 140 | | |
| Storage Blk Time (%) | 4 | | | | |
| Queuing Penalty (veh) | 0 | | | | |

## Intersection: 5: Peach Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | WB | WB | WB | NB | NB |
|---|---|---|---|---|---|---|---|---|---|
| Directions Served | U | T | T | R | L | T | T | L | R |
| Maximum Queue (ft) | 28 | 334 | 348 | 180 | 369 | 448 | 441 | 94 | 87 |
| Average Queue (ft) | 2 | 143 | 137 | 18 | 52 | 83 | 107 | 44 | 28 |
| 95th Queue (ft) | 14 | 267 | 270 | 73 | 163 | 253 | 270 | 85 | 57 |
| Link Distance (ft) | | 2694 | 2694 | | | 2549 | 2549 | | 2538 |
| Upstream Blk Time (%) | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | |
| Storage Bay Dist (ft) | 250 | | | 100 | 250 | | | 220 | |
| Storage Blk Time (%) | | 2 | 13 | | | 1 | | | |
| Queuing Penalty (veh) | | 0 | 10 | | | 1 | | | |

## Intersection: 6: Minnewawa Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | WB | WB | WB | NB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | L | T | T | R | L | T | TR | L | T | R | L | T |
| Maximum Queue (ft) | 359 | 420 | 459 | 150 | 159 | 461 | 441 | 213 | 268 | 150 | 199 | 284 |
| Average Queue (ft) | 66 | 181 | 185 | 52 | 94 | 162 | 180 | 113 | 130 | 51 | 93 | 143 |
| 95th Queue (ft) | 179 | 359 | 358 | 143 | 149 | 305 | 325 | 193 | 220 | 110 | 176 | 226 |
| Link Distance (ft) | | 2549 | 2549 | | | 1269 | 1269 | | 2555 | 2555 | | 2578 |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 240 | | | 50 | 220 | | | 230 | | | 260 | |
| Storage Blk Time (%) | | 3 | 34 | 1 | | 4 | | 0 | 0 | | | 25 |
| Queuing Penalty (veh) | | 3 | 36 | 3 | | 5 | | 0 | 1 | | | 36 |

## Intersection: 6: Minnewawa Avenue & Shepherd Avenue

| Movement | SB |
|---|---|
| Directions Served | R |
| Maximum Queue (ft) | 200 |
| Average Queue (ft) | 42 |
| 95th Queue (ft) | 146 |
| Link Distance (ft) | |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | 100 |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

## Intersection: 7: Clovis Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | EB | WB | WB | WB | WB | WB | NB | NB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | L | L | T | T | R | L | L | T | T | R | L | T |
| Maximum Queue (ft) | 244 | 364 | 601 | 563 | 110 | 110 | 128 | 375 | 319 | 275 | 287 | 348 |
| Average Queue (ft) | 134 | 157 | 195 | 170 | 37 | 46 | 68 | 217 | 215 | 86 | 166 | 130 |
| 95th Queue (ft) | 226 | 279 | 375 | 352 | 103 | 90 | 105 | 315 | 313 | 232 | 263 | 245 |
| Link Distance (ft) | | | 1207 | 1207 | | | | 2012 | 2012 | | | 2554 |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 250 | 250 | | | 50 | 250 | 250 | | | 175 | 230 | |
| Storage Blk Time (%) | 0 | 0 | 7 | 25 | 1 | | | 4 | 15 | | 3 | 0 |
| Queuing Penalty (veh) | 1 | 2 | 15 | 34 | 4 | | | 6 | 24 | | 7 | 1 |

## Intersection: 7: Clovis Avenue & Shepherd Avenue

| Movement | NB | NB | SB | SB | SB | SB | SB |
|---|---|---|---|---|---|---|---|
| Directions Served | T | R | L | L | T | T | R |
| Maximum Queue (ft) | 353 | 100 | 90 | 112 | 147 | 148 | 89 |
| Average Queue (ft) | 152 | 73 | 43 | 44 | 69 | 71 | 33 |
| 95th Queue (ft) | 272 | 130 | 75 | 88 | 122 | 130 | 71 |
| Link Distance (ft) | 2554 | | | | 1268 | 1268 | |
| Upstream Blk Time (%) | | | | | | | |
| Queuing Penalty (veh) | | | | | | | |
| Storage Bay Dist (ft) | | 50 | 250 | 250 | | | 100 |
| Storage Blk Time (%) | 36 | 5 | | | | 3 | 0 |
| Queuing Penalty (veh) | 66 | 10 | | | | 4 | 0 |

## Network Summary

Network wide Queuing Penalty: 268

# HCS7 Two-Lane Highway Report

## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Near Term plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Minnewawa Avenue between Behymer Avenue and Perrin Avenue | Units | U.S. Customary |

## Segment 1

### Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

### Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 521 | Opposing Demand Flow Rate, veh/h | 433 |
| Peak Hour Factor | 0.94 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.31 |

### Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.53968 | Speed Power Coefficient | 0.49163 |
| PF Slope Coefficient | -1.25964 | PF Power Coefficient | 0.79182 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 4.9 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

### Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 56.1 |

### Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 56.1 | Percent Followers, % | 52.9 |
| Segment Travel Time, minutes | 1.07 | Follower Density, followers/mi/ln | 4.9 |
| Vehicle LOS | C | | |

### Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 4.9 | C |

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# HCS7 Two-Lane Highway Report

## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Near Term plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Minnewawa Avenue between Behymer Avenue and Perrin Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 616 | Opposing Demand Flow Rate, veh/h | 424 |
| Peak Hour Factor | 0.87 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.36 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.53747 | Speed Power Coefficient | 0.49299 |
| PF Slope Coefficient | -1.25849 | PF Power Coefficient | 0.79226 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 6.4 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 55.8 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 55.8 | Percent Followers, % | 57.6 |
| Segment Travel Time, minutes | 1.07 | Follower Density, followers/mi/ln | 6.4 |
| Vehicle LOS | C | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 6.4 | C |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Near Term plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Minnewawa Avenue between Perrin Avenue and Shepherd Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 438 | Opposing Demand Flow Rate, veh/h | 352 |
| Peak Hour Factor | 0.94 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.26 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.51850 | Speed Power Coefficient | 0.50508 |
| PF Slope Coefficient | -1.24815 | PF Power Coefficient | 0.79601 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 3.7 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 56.4 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 56.4 | Percent Followers, % | 47.7 |
| Segment Travel Time, minutes | 1.06 | Follower Density, followers/mi/ln | 3.7 |
| Vehicle LOS | B | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 3.7 | B |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Near Term plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Minnewawa Avenue between Perrin Avenue and Shepherd Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 482 | Opposing Demand Flow Rate, veh/h | 417 |
| Peak Hour Factor | 0.88 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.28 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.53568 | Speed Power Coefficient | 0.49409 |
| PF Slope Coefficient | -1.25755 | PF Power Coefficient | 0.79261 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 4.3 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 56.2 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 56.2 | Percent Followers, % | 50.6 |
| Segment Travel Time, minutes | 1.07 | Follower Density, followers/mi/ln | 4.3 |
| Vehicle LOS | C | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 4.3 | C |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Near Term plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Shepherd Avenue between Willow Avenue and Peach Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Constrained | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 50 | Access Point Density, pts/mi | 4.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 984 | Opposing Demand Flow Rate, veh/h | - |
| Peak Hour Factor | 0.88 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.58 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 51.7 |
| Speed Slope Coefficient | 3.36232 | Speed Power Coefficient | 0.41674 |
| PF Slope Coefficient | -1.35765 | PF Power Coefficient | 0.73804 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 15.0 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 48.5 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 48.5 | Percent Followers, % | 73.9 |
| Segment Travel Time, minutes | 1.24 | Follower Density, followers/mi/ln | 15.0 |
| Vehicle LOS | D | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 15.0 | D |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Near Term plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Shepherd Avenue between Willow Avenue and Peach Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Constrained | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 50 | Access Point Density, pts/mi | 4.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 1248 | Opposing Demand Flow Rate, veh/h | - |
| Peak Hour Factor | 0.88 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.73 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 51.7 |
| Speed Slope Coefficient | 3.36232 | Speed Power Coefficient | 0.41674 |
| PF Slope Coefficient | -1.35765 | PF Power Coefficient | 0.73804 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 20.7 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 48.1 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 48.1 | Percent Followers, % | 79.8 |
| Segment Travel Time, minutes | 1.25 | Follower Density, followers/mi/ln | 20.7 |
| Vehicle LOS | E | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 20.7 | E |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Near Term plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Shepherd Avenue between Peach Avenue and Minnewawa Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Constrained | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 50 | Access Point Density, pts/mi | 4.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 1185 | Opposing Demand Flow Rate, veh/h | - |
| Peak Hour Factor | 0.89 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.70 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 51.7 |
| Speed Slope Coefficient | 3.36232 | Speed Power Coefficient | 0.41674 |
| PF Slope Coefficient | -1.35765 | PF Power Coefficient | 0.73804 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 19.3 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 48.2 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 48.2 | Percent Followers, % | 78.5 |
| Segment Travel Time, minutes | 1.24 | Follower Density, followers/mi/ln | 19.3 |
| Vehicle LOS | E | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 19.3 | E |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Near Term plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Shepherd Avenue between Peach Avenue and Minnewawa Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Constrained | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 50 | Access Point Density, pts/mi | 4.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 1344 | Opposing Demand Flow Rate, veh/h | - |
| Peak Hour Factor | 0.87 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.79 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 51.7 |
| Speed Slope Coefficient | 3.36232 | Speed Power Coefficient | 0.41674 |
| PF Slope Coefficient | -1.35765 | PF Power Coefficient | 0.73804 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 22.8 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 48.0 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 48.0 | Percent Followers, % | 81.5 |
| Segment Travel Time, minutes | 1.25 | Follower Density, followers/mi/ln | 22.8 |
| Vehicle LOS | E | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 22.8 | E |

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# HCS7 Multilane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/10/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Near Term plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Shepherd Avenue between Willow Avenue and Peach Avenue | Units | U.S. Customary |

## Direction 1 Geometric Data

| | | | |
|---|---|---|---|
| Direction 1 | Eastbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 4.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance ($LC_R$), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.0 | | |

## Direction 1 Adjustment Factors

| | | | |
|---|---|---|---|
| Driver Population | Mostly Familiar | Final Speed Adjustment Factor (SAF) | 0.975 |
| Driver Population SAF | 0.975 | Final Capacity Adjustment Factor (CAF) | 0.968 |
| Driver Population CAF | 0.968 | | |

## Direction 1 Demand and Capacity

| | | | |
|---|---|---|---|
| Volume(V) veh/h | 1055 | Heavy Vehicle Adjustment Factor ($f_{HV}$) | 0.971 |
| Peak Hour Factor | 0.88 | Flow Rate ($V_p$), pc/h/ln | 618 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 2052 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity ($c_{adj}$), pc/h/ln | 1986 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.31 |

## Direction 1 Speed and Density

| | | | |
|---|---|---|---|
| Lane Width Adjustment ($f_{LW}$) | 0.0 | Average Speed (S), mi/h | 52.6 |
| Total Lateral Clearance Adj. ($f_{LLC}$) | 0.0 | Density (D ), pc/mi/ln | 11.7 |
| Median Type Adjustment ($f_M$) | 0.0 | Level of Service (LOS) | B |
| Access Point Density Adjustment ($f_A$) | 1.0 | | |

## Direction 1 Bicycle LOS

| | | | |
|---|---|---|---|
| Flow Rate in Outside Lane ($v_{OL}$),veh/h | 599 | Effective Speed Factor ($S_t$) | 4.62 |
| Effective Width of Volume ($W_v$), ft | 18 | Bicyle LOS Score (BLOS) | 3.15 |
| Average Effective Width ($W_e$), ft | 24 | Bicycle Level of Service (LOS) | C |

| Direction 2 Geometric Data | | | |
|---|---|---|---|
| Direction 2 | Westbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 4.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance ($LC_R$), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.0 | | |

| Direction 2 Adjustment Factors | | | |
|---|---|---|---|
| Driver Population | Mostly Familiar | Final Speed Adjustment Factor (SAF) | 0.975 |
| Driver Population SAF | 0.975 | Final Capacity Adjustment Factor (CAF) | 0.968 |
| Driver Population CAF | 0.968 | | |

| Direction 2 Demand and Capacity | | | |
|---|---|---|---|
| Volume(V) veh/h | 866 | Heavy Vehicle Adjustment Factor ($f_{HV}$) | 0.971 |
| Peak Hour Factor | 0.88 | Flow Rate ($V_p$), pc/h/ln | 506 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 2052 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity ($c_{adj}$), pc/h/ln | 1986 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.25 |

| Direction 2 Speed and Density | | | |
|---|---|---|---|
| Lane Width Adjustment ($f_{LW}$) | 0.0 | Average Speed (S), mi/h | 52.6 |
| Total Lateral Clearance Adj. ($f_{LLC}$) | 0.0 | Density (D ), pc/mi/ln | 9.6 |
| Median Type Adjustment ($f_M$) | 0.0 | Level of Service (LOS) | A |
| Access Point Density Adjustment ($f_A$) | 1.0 | | |

| Direction 2 Bicycle LOS | | | |
|---|---|---|---|
| Flow Rate in Outside Lane ($v_{OL}$),veh/h | 599 | Effective Speed Factor ($S_t$) | 4.62 |
| Effective Width of Volume ($W_v$), ft | 18 | Bicyle LOS Score (BLOS) | 3.15 |
| Average Effective Width ($W_e$), ft | 24 | Bicycle Level of Service (LOS) | C |

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# HCS7 Multilane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/10/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Near Term plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Shepherd Avenue between Willow Avenue and Peach Avenue | Units | U.S. Customary |

## Direction 1 Geometric Data

| | | | |
|---|---|---|---|
| Direction 1 | Eastbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 4.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance ($LC_R$), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.0 | | |

## Direction 1 Adjustment Factors

| | | | |
|---|---|---|---|
| Driver Population | Mostly Familiar | Final Speed Adjustment Factor (SAF) | 0.975 |
| Driver Population SAF | 0.975 | Final Capacity Adjustment Factor (CAF) | 0.968 |
| Driver Population CAF | 0.968 | | |

## Direction 1 Demand and Capacity

| | | | |
|---|---|---|---|
| Volume(V) veh/h | 1271 | Heavy Vehicle Adjustment Factor ($f_{HV}$) | 0.971 |
| Peak Hour Factor | 0.88 | Flow Rate ($V_p$), pc/h/ln | 744 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 2052 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity ($c_{adj}$), pc/h/ln | 1986 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.37 |

## Direction 1 Speed and Density

| | | | |
|---|---|---|---|
| Lane Width Adjustment ($f_{LW}$) | 0.0 | Average Speed (S), mi/h | 52.6 |
| Total Lateral Clearance Adj. ($f_{LLC}$) | 0.0 | Density (D ), pc/mi/ln | 14.1 |
| Median Type Adjustment ($f_M$) | 0.0 | Level of Service (LOS) | B |
| Access Point Density Adjustment ($f_A$) | 1.0 | | |

## Direction 1 Bicycle LOS

| | | | |
|---|---|---|---|
| Flow Rate in Outside Lane ($v_{OL}$),veh/h | 722 | Effective Speed Factor ($S_t$) | 4.62 |
| Effective Width of Volume ($W_v$), ft | 18 | Bicyle LOS Score (BLOS) | 3.25 |
| Average Effective Width ($W_e$), ft | 24 | Bicycle Level of Service (LOS) | C |

## Direction 2 Geometric Data

| | | | |
|---|---|---|---|
| Direction 2 | Westbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 4.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance ($LC_R$), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.0 | | |

## Direction 2 Adjustment Factors

| | | | |
|---|---|---|---|
| Driver Population | Mostly Familiar | Final Speed Adjustment Factor (SAF) | 0.975 |
| Driver Population SAF | 0.975 | Final Capacity Adjustment Factor (CAF) | 0.968 |
| Driver Population CAF | 0.968 | | |

## Direction 2 Demand and Capacity

| | | | |
|---|---|---|---|
| Volume(V) veh/h | 1098 | Heavy Vehicle Adjustment Factor ($f_{HV}$) | 0.971 |
| Peak Hour Factor | 0.88 | Flow Rate ($V_p$), pc/h/ln | 642 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 2052 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity ($c_{adj}$), pc/h/ln | 1986 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.32 |

## Direction 2 Speed and Density

| | | | |
|---|---|---|---|
| Lane Width Adjustment ($f_{LW}$) | 0.0 | Average Speed (S), mi/h | 52.6 |
| Total Lateral Clearance Adj. ($f_{LLC}$) | 0.0 | Density (D ), pc/mi/ln | 12.2 |
| Median Type Adjustment ($f_M$) | 0.0 | Level of Service (LOS) | B |
| Access Point Density Adjustment ($f_A$) | 1.0 | | |

## Direction 2 Bicycle LOS

| | | | |
|---|---|---|---|
| Flow Rate in Outside Lane ($v_{OL}$),veh/h | 722 | Effective Speed Factor ($S_t$) | 4.62 |
| Effective Width of Volume ($W_v$), ft | 18 | Bicyle LOS Score (BLOS) | 3.25 |
| Average Effective Width ($W_e$), ft | 24 | Bicycle Level of Service (LOS) | C |

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# HCS7 Multilane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/10/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Near Term plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Shepherd Avenue between Peach Avenue and Minnewawa Avenue | Units | U.S. Customary |

## Direction 1 Geometric Data

| | | | |
|---|---|---|---|
| Direction 1 | Eastbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 4.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance ($LC_R$), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.0 | | |

## Direction 1 Adjustment Factors

| | | | |
|---|---|---|---|
| Driver Population | Mostly Familiar | Final Speed Adjustment Factor (SAF) | 0.975 |
| Driver Population SAF | 0.975 | Final Capacity Adjustment Factor (CAF) | 0.968 |
| Driver Population CAF | 0.968 | | |

## Direction 1 Demand and Capacity

| | | | |
|---|---|---|---|
| Volume(V) veh/h | 1015 | Heavy Vehicle Adjustment Factor ($f_{HV}$) | 0.971 |
| Peak Hour Factor | 0.89 | Flow Rate ($V_p$), pc/h/ln | 588 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 2052 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity ($c_{adj}$), pc/h/ln | 1986 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.30 |

## Direction 1 Speed and Density

| | | | |
|---|---|---|---|
| Lane Width Adjustment ($f_{LW}$) | 0.0 | Average Speed (S), mi/h | 52.6 |
| Total Lateral Clearance Adj. ($f_{LLC}$) | 0.0 | Density (D ), pc/mi/ln | 11.2 |
| Median Type Adjustment ($f_M$) | 0.0 | Level of Service (LOS) | B |
| Access Point Density Adjustment ($f_A$) | 1.0 | | |

## Direction 1 Bicycle LOS

| | | | |
|---|---|---|---|
| Flow Rate in Outside Lane ($v_{OL}$),veh/h | 570 | Effective Speed Factor ($S_t$) | 4.62 |
| Effective Width of Volume ($W_v$), ft | 18 | Bicyle LOS Score (BLOS) | 3.13 |
| Average Effective Width ($W_e$), ft | 24 | Bicycle Level of Service (LOS) | C |

| Direction 2 Geometric Data | | | |
|---|---|---|---|
| Direction 2 | Westbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 4.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance ($LC_R$), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.0 | | |

| Direction 2 Adjustment Factors | | | |
|---|---|---|---|
| Driver Population | Mostly Familiar | Final Speed Adjustment Factor (SAF) | 0.975 |
| Driver Population SAF | 0.975 | Final Capacity Adjustment Factor (CAF) | 0.968 |
| Driver Population CAF | 0.968 | | |

| Direction 2 Demand and Capacity | | | |
|---|---|---|---|
| Volume(V) veh/h | 1055 | Heavy Vehicle Adjustment Factor ($f_{HV}$) | 0.971 |
| Peak Hour Factor | 0.89 | Flow Rate ($V_p$), pc/h/ln | 610 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 2052 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity ($c_{adj}$), pc/h/ln | 1986 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.31 |

| Direction 2 Speed and Density | | | |
|---|---|---|---|
| Lane Width Adjustment ($f_{LW}$) | 0.0 | Average Speed (S), mi/h | 52.6 |
| Total Lateral Clearance Adj. ($f_{LLC}$) | 0.0 | Density (D ), pc/mi/ln | 11.6 |
| Median Type Adjustment ($f_M$) | 0.0 | Level of Service (LOS) | B |
| Access Point Density Adjustment ($f_A$) | 1.0 | | |

| Direction 2 Bicycle LOS | | | |
|---|---|---|---|
| Flow Rate in Outside Lane ($v_{OL}$),veh/h | 570 | Effective Speed Factor ($S_t$) | 4.62 |
| Effective Width of Volume ($W_v$), ft | 18 | Bicyle LOS Score (BLOS) | 3.13 |
| Average Effective Width ($W_e$), ft | 24 | Bicycle Level of Service (LOS) | C |

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# HCS7 Multilane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/10/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Near Term plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Shepherd Avenue between Peach Avenue and Minnewawa Avenue | Units | U.S. Customary |

## Direction 1 Geometric Data

| | | | |
|---|---|---|---|
| Direction 1 | Eastbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 4.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance ($LC_R$), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.0 | | |

## Direction 1 Adjustment Factors

| | | | |
|---|---|---|---|
| Driver Population | Mostly Familiar | Final Speed Adjustment Factor (SAF) | 0.975 |
| Driver Population SAF | 0.975 | Final Capacity Adjustment Factor (CAF) | 0.968 |
| Driver Population CAF | 0.968 | | |

## Direction 1 Demand and Capacity

| | | | |
|---|---|---|---|
| Volume(V) veh/h | 1125 | Heavy Vehicle Adjustment Factor ($f_{HV}$) | 0.971 |
| Peak Hour Factor | 0.87 | Flow Rate ($V_p$), pc/h/ln | 666 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 2052 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity ($c_{adj}$), pc/h/ln | 1986 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.34 |

## Direction 1 Speed and Density

| | | | |
|---|---|---|---|
| Lane Width Adjustment ($f_{LW}$) | 0.0 | Average Speed (S), mi/h | 52.6 |
| Total Lateral Clearance Adj. ($f_{LLC}$) | 0.0 | Density (D ), pc/mi/ln | 12.7 |
| Median Type Adjustment ($f_M$) | 0.0 | Level of Service (LOS) | B |
| Access Point Density Adjustment ($f_A$) | 1.0 | | |

## Direction 1 Bicycle LOS

| | | | |
|---|---|---|---|
| Flow Rate in Outside Lane ($v_{OL}$),veh/h | 647 | Effective Speed Factor ($S_t$) | 4.62 |
| Effective Width of Volume ($W_v$), ft | 18 | Bicyle LOS Score (BLOS) | 3.19 |
| Average Effective Width ($W_e$), ft | 24 | Bicycle Level of Service (LOS) | C |

## Direction 2 Geometric Data

| | | | |
|---|---|---|---|
| Direction 2 | Westbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 4.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance ($LC_R$), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.0 | | |

## Direction 2 Adjustment Factors

| | | | |
|---|---|---|---|
| Driver Population | Mostly Familiar | Final Speed Adjustment Factor (SAF) | 0.975 |
| Driver Population SAF | 0.975 | Final Capacity Adjustment Factor (CAF) | 0.968 |
| Driver Population CAF | 0.968 | | |

## Direction 2 Demand and Capacity

| | | | |
|---|---|---|---|
| Volume(V) veh/h | 1169 | Heavy Vehicle Adjustment Factor ($f_{HV}$) | 0.971 |
| Peak Hour Factor | 0.87 | Flow Rate ($V_p$), pc/h/ln | 692 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 2052 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity ($c_{adj}$), pc/h/ln | 1986 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.35 |

## Direction 2 Speed and Density

| | | | |
|---|---|---|---|
| Lane Width Adjustment ($f_{LW}$) | 0.0 | Average Speed (S), mi/h | 52.6 |
| Total Lateral Clearance Adj. ($f_{LLC}$) | 0.0 | Density (D ), pc/mi/ln | 13.2 |
| Median Type Adjustment ($f_M$) | 0.0 | Level of Service (LOS) | B |
| Access Point Density Adjustment ($f_A$) | 1.0 | | |

## Direction 2 Bicycle LOS

| | | | |
|---|---|---|---|
| Flow Rate in Outside Lane ($v_{OL}$),veh/h | 647 | Effective Speed Factor ($S_t$) | 4.62 |
| Effective Width of Volume ($W_v$), ft | 18 | Bicyle LOS Score (BLOS) | 3.19 |
| Average Effective Width ($W_e$), ft | 24 | Bicycle Level of Service (LOS) | C |

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# Appendix H: Cumulative Year 2046 plus Project Traffic Conditions

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 181.4 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 3 | 219 | 111 | 6 | 272 | 298 | 147 | 313 | 13 | 153 | 292 | 5 |
| Future Vol, veh/h | 3 | 219 | 111 | 6 | 272 | 298 | 147 | 313 | 13 | 153 | 292 | 5 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 3 | 226 | 114 | 6 | 280 | 307 | 152 | 323 | 13 | 158 | 301 | 5 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 68.4 | 265.7 | 180.2 | 158.2 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 31% | 1% | 1% | 34% |
| Vol Thru, % | 66% | 66% | 47% | 65% |
| Vol Right, % | 3% | 33% | 52% | 1% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 473 | 333 | 576 | 450 |
| LT Vol | 147 | 3 | 6 | 153 |
| Through Vol | 313 | 219 | 272 | 292 |
| RT Vol | 13 | 111 | 298 | 5 |
| Lane Flow Rate | 488 | 343 | 594 | 464 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 1.278 | 0.901 | 1.498 | 1.218 |
| Departure Headway (Hd) | 11.633 | 12.669 | 10.519 | 11.84 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 317 | 288 | 350 | 311 |
| Service Time | 9.633 | 10.669 | 8.519 | 9.84 |
| HCM Lane V/C Ratio | 1.539 | 1.191 | 1.697 | 1.492 |
| HCM Control Delay, s/veh | 180.2 | 68.4 | 265.7 | 158.2 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 18.7 | 8.2 | 28.1 | 16.6 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 7.9 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 23 | 30 | 159 | 12 | 42 | 49 | 33 | 440 | 10 | 25 | 428 | 26 |
| Future Vol, veh/h | 23 | 30 | 159 | 12 | 42 | 49 | 33 | 440 | 10 | 25 | 428 | 26 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 24 | 32 | 169 | 13 | 45 | 52 | 35 | 468 | 11 | 27 | 455 | 28 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1083 | 1071 | 469 | 1068 | 1080 | 473 | 483 | 0 | 0 | 479 | 0 | 0 |
| Stage 1 | 522 | 522 | - | 544 | 544 | - | - | - | - | - | - | - |
| Stage 2 | 561 | 549 | - | 524 | 536 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.13 | 6.53 | 6.23 | 7.13 | 6.53 | 6.23 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 4.027 | 3.327 | 3.527 | 4.027 | 3.327 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 194 | 220 | 592 | 199 | 217 | 589 | 1075 | - | - | 1078 | - | - |
| Stage 1 | 536 | 529 | - | 522 | 518 | - | - | - | - | - | - | - |
| Stage 2 | 511 | 515 | - | 534 | 522 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 129 | 203 | 592 | 112 | 201 | 589 | 1075 | - | - | 1078 | - | - |
| Mov Cap-2 Maneuver | 129 | 203 | - | 112 | 201 | - | - | - | - | - | - | - |
| Stage 1 | 518 | 511 | - | 498 | 495 | - | - | - | - | - | - | - |
| Stage 2 | 405 | 492 | - | 346 | 504 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 30.97 | 28.97 | 0.58 | 0.44 |
| HCM LOS | D | D | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 122 | - | - | 356 | 257 | 93 | - | - |
| HCM Lane V/C Ratio | 0.033 | - | - | 0.633 | 0.426 | 0.025 | - | - |
| HCM Control Delay (s/veh) | 8.5 | 0 | - | 31 | 29 | 8.4 | 0 | - |
| HCM Lane LOS | A | A | - | D | D | A | A | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 4.1 | 2 | 0.1 | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.9 |

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 25 | 41 | 42 | 378 | 915 | 16 |
| Future Vol, veh/h | 25 | 41 | 42 | 378 | 915 | 16 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 27 | 45 | 46 | 411 | 995 | 17 |

| Major/Minor | Minor2 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 1505 | 1003 | 1012 | 0 | - | 0 |
| Stage 1 | 1003 | - | - | - | - | - |
| Stage 2 | 502 | - | - | - | - | - |
| Critical Hdwy | 6.43 | 6.23 | 4.13 | - | - | - |
| Critical Hdwy Stg 1 | 5.43 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.43 | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 3.327 | 2.227 | - | - | - |
| Pot Cap-1 Maneuver | 133 | 292 | 681 | - | - | - |
| Stage 1 | 353 | - | - | - | - | - |
| Stage 2 | 606 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 121 | 292 | 681 | - | - | - |
| Mov Cap-2 Maneuver | 121 | - | - | - | - | - |
| Stage 1 | 322 | - | - | - | - | - |
| Stage 2 | 606 | - | - | - | - | - |

| Approach | EB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | 34.9 | 1.07 | 0 |
| HCM LOS | D | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---|---|---|---|---|---|
| Capacity (veh/h) | 180 | - | 190 | - | - |
| HCM Lane V/C Ratio | 0.067 | - | 0.377 | - | - |
| HCM Control Delay (s/veh) | 10.7 | 0 | 34.9 | - | - |
| HCM Lane LOS | B | A | D | - | - |
| HCM 95th %tile Q(veh) | 0.2 | - | 1.6 | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 236.8 |

| Movement | WBL | WBR | NBU | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Vol, veh/h | 428 | 37 | 38 | 373 | 208 | 6 | 964 |
| Future Vol, veh/h | 428 | 37 | 38 | 373 | 208 | 6 | 964 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free | Free |
| RT Channelized | - | None | - | - | None | - | None |
| Storage Length | 100 | 0 | 140 | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 |
| Grade, % | 0 | - | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 465 | 40 | 41 | 405 | 226 | 7 | 1048 |

| Major/Minor | Minor1 | | Major1 | | | Major2 | |
|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1466 | 405 | - | 0 | 0 | 632 | 0 |
| Stage 1 | 405 | - | - | - | - | - | - |
| Stage 2 | 1061 | - | - | - | - | - | - |
| Critical Hdwy | 6.43 | 6.23 | - | - | - | 4.13 | - |
| Critical Hdwy Stg 1 | 5.43 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.43 | - | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 3.327 | - | - | - | 2.227 | - |
| Pot Cap-1 Maneuver | ~ 140 | 643 | - | - | - | 946 | - |
| Stage 1 | 671 | - | - | - | - | - | - |
| Stage 2 | ~ 331 | - | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | | - |
| Mov Cap-1 Maneuver | ~ 138 | 643 | - | - | - | 946 | - |
| Mov Cap-2 Maneuver | ~ 138 | - | - | - | - | - | - |
| Stage 1 | 671 | - | - | - | - | - | - |
| Stage 2 | ~ 326 | - | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | $ 1045.92 | | 0.05 |
| HCM LOS | F | | |

| Minor Lane/Major Mvmt | NBU | NBT | NBR | WBLn1 | WBLn2 | SBL | SBT |
|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | 138 | 643 | 11 | - |
| HCM Lane V/C Ratio | - | - | - | 3.374 | 0.063 | 0.007 | - |
| HCM Control Delay (s/veh) | - | - | $ | 1135.4 | 11 | 8.8 | 0 |
| HCM Lane LOS | - | - | - | F | B | A | A |
| HCM 95th %tile Q(veh) | - | - | - | 44.8 | 0.2 | 0 | - |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

| Intersection | |
|---|---|
| Int Delay, s/veh | 527.5 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 18 | 950 | 149 | 224 | 836 | 50 | 30 | 49 | 86 | 117 | 74 | 176 |
| Future Vol, veh/h | 18 | 950 | 149 | 224 | 836 | 50 | 30 | 49 | 86 | 117 | 74 | 176 |
| Conflicting Peds, #/hr | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 250 | - | 100 | 250 | - | - | 220 | - | - | 220 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 20 | 1033 | 162 | 243 | 909 | 54 | 33 | 53 | 93 | 127 | 80 | 191 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 963 | 0 | 0 | 1196 | 0 | 0 | 2509 | 2523 | 517 | 2005 | 2658 | 936 |
| Stage 1 | - | - | - | - | - | - | 1073 | 1073 | - | 1423 | 1423 | - |
| Stage 2 | - | - | - | - | - | - | 1436 | 1450 | - | 582 | 1235 | - |
| Critical Hdwy | 4.145 | - | - | 4.145 | - | - | 7.345 | 6.545 | 6.945 | 7.345 | 6.545 | 6.245 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.545 | 5.545 | - | 6.145 | 5.545 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.145 | 5.545 | - | 6.545 | 5.545 | - |
| Follow-up Hdwy | 2.2285 | - | - | 2.2285 | - | - | 3.5285 | 4.0285 | 3.3285 | 3.5285 | 4.0285 | 3.3285 |
| Pot Cap-1 Maneuver | 708 | - | - | 577 | - | - | ~ 16 | ~ 27 | 502 | ~ 39 | ~ 22 | 319 |
| Stage 1 | - | - | - | - | - | - | 235 | 294 | - | 167 | 200 | - |
| Stage 2 | - | - | - | - | - | - | 164 | 194 | - | 465 | 246 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 708 | - | - | 577 | - | - | ~ 4 | ~ 15 | 501 | ~ 18 | ~ 13 | 319 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | ~ 4 | ~ 15 | - | ~ 18 | ~ 13 | - |
| Stage 1 | - | - | - | - | - | - | 228 | 286 | - | ~ 96 | 115 | - |
| Stage 2 | - | - | - | - | - | - | ~ 11 | 112 | - | 299 | 239 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 0.16 | 3.17 | $ 2130.04 | $ 2997.77 |
| HCM LOS | | | F | F |

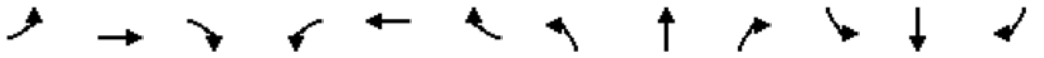
| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | SBLn2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 4 | 40 | 708 | - | - | 577 | - | - | 18 | 39 |
| HCM Lane V/C Ratio | 8.85 | 3.659 | 0.028 | - | - | 0.422 | - | - | 7.134 | 7.017 |
| HCM Control Delay (s/veh) | $ 5395.8 | $ 1404.3 | 10.2 | - | - | 15.7 | - | - | $ 3184.9 | $ 2910.2 |
| HCM Lane LOS | F | F | B | - | - | C | - | - | F | F |
| HCM 95th %tile Q(veh) | 5.7 | 16.6 | 0.1 | - | - | 2.1 | - | - | 16.6 | 32.3 |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

# HCM 7th Signalized Intersection Summary
## 6: Minnewawa Avenue & Shepherd Avenue

Cumulative Year 2046 plus Pro

04/08/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 40 | 850 | 269 | 201 | 910 | 199 | 143 | 190 | 70 | 181 | 432 | 110 |
| Future Volume (veh/h) | 40 | 850 | 269 | 201 | 910 | 199 | 143 | 190 | 70 | 181 | 432 | 110 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 43 | 904 | 286 | 214 | 968 | 212 | 152 | 202 | 74 | 193 | 460 | 117 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 90 | 1279 | 570 | 240 | 808 | 685 | 140 | 243 | 206 | 352 | 483 | 409 |
| Arrive On Green | 0.05 | 0.36 | 0.36 | 0.14 | 0.44 | 0.44 | 0.08 | 0.13 | 0.13 | 0.20 | 0.26 | 0.26 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 43 | 904 | 286 | 214 | 968 | 212 | 152 | 202 | 74 | 193 | 460 | 117 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 2.9 | 27.3 | 17.6 | 14.8 | 54.0 | 10.9 | 9.8 | 13.2 | 4.0 | 12.2 | 30.2 | 5.9 |
| Cycle Q Clear(g_c), s | 2.9 | 27.3 | 17.6 | 14.8 | 54.0 | 10.9 | 9.8 | 13.2 | 4.0 | 12.2 | 30.2 | 5.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 90 | 1279 | 570 | 240 | 808 | 685 | 140 | 243 | 206 | 352 | 483 | 409 |
| V/C Ratio(X) | 0.48 | 0.71 | 0.50 | 0.89 | 1.20 | 0.31 | 1.09 | 0.83 | 0.36 | 0.55 | 0.95 | 0.29 |
| Avail Cap(c_a), veh/h | 111 | 1279 | 570 | 268 | 808 | 685 | 140 | 479 | 406 | 352 | 483 | 410 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 57.2 | 33.9 | 30.8 | 52.7 | 35.0 | 22.8 | 57.1 | 52.5 | 28.0 | 44.6 | 45.1 | 23.7 |
| Incr Delay (d2), s/veh | 3.8 | 3.3 | 3.1 | 26.9 | 101.0 | 1.2 | 101.8 | 7.2 | 1.1 | 1.8 | 29.3 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.4 | 11.6 | 6.8 | 8.1 | 45.1 | 4.1 | 8.2 | 6.5 | 2.1 | 5.3 | 17.1 | 2.7 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 61.1 | 37.2 | 33.9 | 79.6 | 136.0 | 24.0 | 158.9 | 59.7 | 29.1 | 46.4 | 74.4 | 24.0 |
| LnGrp LOS | E | D | C | E | F | C | F | E | C | D | E | C |
| Approach Vol, veh/h | | 1233 | | | 1394 | | | 428 | | | 770 | |
| Approach Delay, s/veh | | 37.3 | | | 110.3 | | | 89.6 | | | 59.7 | |
| Approach LOS | | D | | | F | | | F | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 30.7 | 21.5 | 21.1 | 50.7 | 14.0 | 38.3 | 12.0 | 59.7 |
| Change Period (Y+Rc), s | 6.0 | * 5.3 | 4.2 | 5.7 | 4.2 | 6.0 | 5.7 | * 5.7 |
| Max Green Setting (Gmax), s | 10.8 | * 32 | 18.8 | 43.0 | 9.8 | 32.3 | 7.8 | * 54 |
| Max Q Clear Time (g_c+I1), s | 14.2 | 15.2 | 16.8 | 29.3 | 11.8 | 32.2 | 4.9 | 56.0 |
| Green Ext Time (p_c), s | 0.0 | 1.1 | 0.1 | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 74.3 |
| HCM 7th LOS | E |

**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 110 | 792 | 185 | 247 | 854 | 149 | 192 | 347 | 81 | 401 | 820 | 169 |
| Future Volume (veh/h) | 110 | 792 | 185 | 247 | 854 | 149 | 192 | 347 | 81 | 401 | 820 | 169 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 120 | 861 | 201 | 268 | 928 | 162 | 209 | 377 | 88 | 436 | 891 | 184 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 212 | 967 | 431 | 490 | 1295 | 578 | 236 | 507 | 226 | 897 | 990 | 441 |
| Arrive On Green | 0.06 | 0.27 | 0.27 | 0.14 | 0.37 | 0.37 | 0.13 | 0.14 | 0.14 | 0.26 | 0.28 | 0.28 |
| Sat Flow, veh/h | 3428 | 3526 | 1572 | 3428 | 3526 | 1572 | 1767 | 3526 | 1572 | 3428 | 3526 | 1569 |
| Grp Volume(v), veh/h | 120 | 861 | 201 | 268 | 928 | 162 | 209 | 377 | 88 | 436 | 891 | 184 |
| Grp Sat Flow(s),veh/h/ln | 1714 | 1763 | 1572 | 1714 | 1763 | 1572 | 1767 | 1763 | 1572 | 1714 | 1763 | 1569 |
| Q Serve(g_s), s | 4.2 | 29.1 | 9.3 | 9.0 | 28.0 | 4.0 | 14.4 | 12.7 | 6.3 | 13.3 | 30.2 | 11.8 |
| Cycle Q Clear(g_c), s | 4.2 | 29.1 | 9.3 | 9.0 | 28.0 | 4.0 | 14.4 | 12.7 | 6.3 | 13.3 | 30.2 | 11.8 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 212 | 967 | 431 | 490 | 1295 | 578 | 236 | 507 | 226 | 897 | 990 | 441 |
| V/C Ratio(X) | 0.57 | 0.89 | 0.47 | 0.55 | 0.72 | 0.28 | 0.89 | 0.74 | 0.39 | 0.49 | 0.90 | 0.42 |
| Avail Cap(c_a), veh/h | 216 | 1052 | 469 | 490 | 1295 | 578 | 268 | 1052 | 469 | 897 | 1052 | 468 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 56.5 | 43.2 | 18.7 | 49.4 | 33.7 | 5.5 | 52.8 | 50.9 | 48.2 | 38.7 | 42.9 | 36.3 |
| Incr Delay (d2), s/veh | 3.3 | 12.1 | 3.6 | 1.3 | 3.4 | 1.2 | 26.0 | 2.2 | 1.1 | 0.4 | 10.1 | 0.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.9 | 13.7 | 3.6 | 3.8 | 12.0 | 3.2 | 7.9 | 5.6 | 2.5 | 5.5 | 14.0 | 4.5 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 59.8 | 55.3 | 22.3 | 50.7 | 37.1 | 6.7 | 78.8 | 53.1 | 49.3 | 39.1 | 53.0 | 36.9 |
| LnGrp LOS | E | E | C | D | D | A | E | D | D | D | D | D |
| Approach Vol, veh/h | | 1182 | | | 1358 | | | 674 | | | 1511 | |
| Approach Delay, s/veh | | 50.2 | | | 36.2 | | | 60.6 | | | 47.0 | |
| Approach LOS | | D | | | D | | | E | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 7.8 | 23.1 | 23.4 | 39.7 | 20.7 | 40.1 | 11.9 | 51.3 |
| Change Period (Y+Rc), s | 5.3 | * 5.3 | 5.7 | * 5.7 | 4.2 | 5.3 | 4.2 | 5.7 |
| Max Green Setting (Gmax), s | 18.8 | * 37 | 11.8 | * 37 | 18.8 | 37.0 | 7.8 | 41.0 |
| Max Q Clear Time (g_c+I1), s | 15.3 | 14.7 | 11.0 | 31.1 | 16.4 | 32.2 | 6.2 | 30.0 |
| Green Ext Time (p_c), s | 0.6 | 2.5 | 0.1 | 2.9 | 0.1 | 2.6 | 0.0 | 4.7 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 46.6 |
| HCM 7th LOS | D |

**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 174.8 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 97 | 228 | 105 | 5 | 201 | 222 | 97 | 304 | 16 | 184 | 274 | 6 |
| Future Vol, veh/h | 97 | 228 | 105 | 5 | 201 | 222 | 97 | 304 | 16 | 184 | 274 | 6 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 105 | 248 | 114 | 5 | 218 | 241 | 105 | 330 | 17 | 200 | 298 | 7 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay, s/veh | 166.8 | 154.5 | 159.9 | 214.2 |
| HCM LOS | F | F | F | F |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 23% | 23% | 1% | 40% |
| Vol Thru, % | 73% | 53% | 47% | 59% |
| Vol Right, % | 4% | 24% | 52% | 1% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 417 | 430 | 428 | 464 |
| LT Vol | 97 | 97 | 5 | 184 |
| Through Vol | 304 | 228 | 201 | 274 |
| RT Vol | 16 | 105 | 222 | 6 |
| Lane Flow Rate | 453 | 467 | 465 | 504 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 1.218 | 1.239 | 1.207 | 1.362 |
| Departure Headway (Hd) | 12.275 | 12.036 | 11.93 | 11.846 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 299 | 304 | 307 | 313 |
| Service Time | 10.275 | 10.036 | 9.93 | 9.846 |
| HCM Lane V/C Ratio | 1.515 | 1.536 | 1.515 | 1.61 |
| HCM Control Delay, s/veh | 159.9 | 166.8 | 154.5 | 214.2 |
| HCM Lane LOS | F | F | F | F |
| HCM 95th-tile Q | 16.2 | 17.1 | 16.2 | 21.1 |

| Intersection | |
|---|---|
| Int Delay, s/veh | 10.5 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 23 | 68 | 47 | 17 | 14 | 32 | 67 | 508 | 39 | 32 | 357 | 62 |
| Future Vol, veh/h | 23 | 68 | 47 | 17 | 14 | 32 | 67 | 508 | 39 | 32 | 357 | 62 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 25 | 74 | 51 | 18 | 15 | 35 | 73 | 552 | 42 | 35 | 388 | 67 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1197 | 1232 | 422 | 1214 | 1244 | 573 | 455 | 0 | 0 | 595 | 0 | 0 |
| Stage 1 | 491 | 491 | - | 719 | 719 | - | - | - | - | - | - | - |
| Stage 2 | 705 | 740 | - | 495 | 525 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.13 | 6.53 | 6.23 | 7.13 | 6.53 | 6.23 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 4.027 | 3.327 | 3.527 | 4.027 | 3.327 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 162 | 176 | 630 | 158 | 173 | 517 | 1100 | - | - | 977 | - | - |
| Stage 1 | 557 | 546 | - | 418 | 431 | - | - | - | - | - | - | - |
| Stage 2 | 425 | 422 | - | 555 | 528 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 118 | 151 | 630 | 68 | 149 | 517 | 1100 | - | - | 977 | - | - |
| Mov Cap-2 Maneuver | 118 | 151 | - | 68 | 149 | - | - | - | - | - | - | - |
| Stage 1 | 530 | 520 | - | 376 | 388 | - | - | - | - | - | - | - |
| Stage 2 | 343 | 380 | - | 416 | 502 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 69.62 | 45.22 | 0.93 | 0.63 |
| HCM LOS | F | E | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 194 | - | - | 192 | 155 | 124 | - | - |
| HCM Lane V/C Ratio | 0.066 | - | - | 0.782 | 0.44 | 0.036 | - | - |
| HCM Control Delay (s/veh) | 8.5 | 0 | - | 69.6 | 45.2 | 8.8 | 0 | - |
| HCM Lane LOS | A | A | - | F | E | A | A | - |
| HCM 95th %tile Q(veh) | 0.2 | - | - | 5.3 | 2 | 0.1 | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 3.1 |

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 49 | 58 | 54 | 771 | 416 | 13 |
| Future Vol, veh/h | 49 | 58 | 54 | 771 | 416 | 13 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 53 | 63 | 59 | 838 | 452 | 14 |

| Major/Minor | Minor2 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 1415 | 459 | 466 | 0 | - | 0 |
| Stage 1 | 459 | - | - | - | - | - |
| Stage 2 | 955 | - | - | - | - | - |
| Critical Hdwy | 6.43 | 6.23 | 4.13 | - | - | - |
| Critical Hdwy Stg 1 | 5.43 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.43 | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 3.327 | 2.227 | - | - | - |
| Pot Cap-1 Maneuver | 151 | 600 | 1090 | - | - | - |
| Stage 1 | 634 | - | - | - | - | - |
| Stage 2 | 372 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 136 | 600 | 1090 | - | - | - |
| Mov Cap-2 Maneuver | 136 | - | - | - | - | - |
| Stage 1 | 570 | - | - | - | - | - |
| Stage 2 | 372 | - | - | - | - | - |

| Approach | EB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s/v | 34.79 | 0.56 | 0 |
| HCM LOS | D | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---|---|---|---|---|---|
| Capacity (veh/h) | 118 | - | 234 | - | - |
| HCM Lane V/C Ratio | 0.054 | - | 0.498 | - | - |
| HCM Control Delay (s/veh) | 8.5 | 0 | 34.8 | - | - |
| HCM Lane LOS | A | A | D | - | - |
| HCM 95th %tile Q(veh) | 0.2 | - | 2.5 | - | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 111.6 |

| Movement | WBL | WBR | NBU | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Vol, veh/h | 319 | 14 | 23 | 774 | 482 | 22 | 489 |
| Future Vol, veh/h | 319 | 14 | 23 | 774 | 482 | 22 | 489 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free | Free |
| RT Channelized | - | None | - | - | None | - | None |
| Storage Length | 100 | 0 | 140 | - | 0 | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 |
| Grade, % | 0 | - | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 347 | 15 | 25 | 841 | 524 | 24 | 532 |

| Major/Minor | Minor1 | | Major1 | | | Major2 | |
|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1421 | 841 | - | 0 | 0 | 1365 | 0 |
| Stage 1 | 841 | - | - | - | - | - | - |
| Stage 2 | 579 | - | - | - | - | - | - |
| Critical Hdwy | 6.43 | 6.23 | - | - | - | 4.13 | - |
| Critical Hdwy Stg 1 | 5.43 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.43 | - | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 3.327 | - | - | - | 2.227 | - |
| Pot Cap-1 Maneuver | ~ 149 | 363 | - | - | - | 500 | - |
| Stage 1 | 421 | - | - | - | - | - | - |
| Stage 2 | 558 | - | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | | - |
| Mov Cap-1 Maneuver | ~ 139 | 363 | - | - | - | 500 | - |
| Mov Cap-2 Maneuver | ~ 139 | - | - | - | - | - | - |
| Stage 1 | 421 | - | - | - | - | - | - |
| Stage 2 | 520 | - | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, $/? | 710.75 | | 0.54 |
| HCM LOS | F | | |

| Minor Lane/Major Mvmt | NBU | NBT | NBR | WBLn1 | WBLn2 | SBL | SBT |
|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | 139 | 363 | 77 | - |
| HCM Lane V/C Ratio | - | - | - | 2.488 | 0.042 | 0.048 | - |
| HCM Control Delay (s/veh) | - | - | - | $ 741.3 | 15.4 | 12.6 | 0 |
| HCM Lane LOS | - | - | - | F | C | B | A |
| HCM 95th %tile Q(veh) | - | - | - | 30.2 | 0.1 | 0.2 | - |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

| Intersection | |
|---|---|
| Int Delay, s/veh | 374.8 |

| Movement | EBU | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | | |
| Traffic Vol, veh/h | 2 | 66 | 1187 | 85 | 67 | 1036 | 140 | 66 | 84 | 77 | 12 | 63 | 13 |
| Future Vol, veh/h | 2 | 66 | 1187 | 85 | 67 | 1036 | 140 | 66 | 84 | 77 | 12 | 63 | 13 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | 250 | - | 100 | 250 | - | - | 220 | - | - | 220 | - | - |
| Veh in Median Storage, # | - | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 2 | 72 | 1290 | 92 | 73 | 1126 | 152 | 72 | 91 | 84 | 13 | 68 | 14 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | - | 1278 | 0 | 0 | 1385 | 0 | 0 | 2746 | 2864 | 647 | 2186 | 2880 | 1202 |
| Stage 1 | - | - | - | - | - | - | - | 1440 | 1440 | - | 1348 | 1348 | - |
| Stage 2 | - | - | - | - | - | - | - | 1306 | 1424 | - | 839 | 1532 | - |
| Critical Hdwy | - | 4.145 | - | - | 4.145 | - | - | 7.345 | 6.545 | 6.945 | 7.345 | 6.545 | 6.245 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | - | 6.545 | 5.545 | - | 6.145 | 5.545 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | - | 6.145 | 5.545 | - | 6.545 | 5.545 | - |
| Follow-up Hdwy | - | 2.2285 | - | - | 2.2285 | - | - | 3.5285 | 4.0285 | 3.3285 | 3.5285 | 4.0285 | 3.3285 |
| Pot Cap-1 Maneuver | - | 537 | - | - | 488 | - | - | ~ 11 | ~ 16 | 412 | 29 | ~ 16 | 223 |
| Stage 1 | - | - | - | - | - | - | - | 139 | 196 | - | 184 | 217 | - |
| Stage 2 | - | - | - | - | - | - | - | 195 | 199 | - | 326 | 176 | - |
| Platoon blocked, % | | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | ~ -34 | ~ -34 | - | - | 488 | - | - | ~ 7 | ~ 12 | 412 | 17 | ~ 12 | 223 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | - | ~ 7 | ~ 12 | - | 17 | ~ 12 | - |
| Stage 1 | - | - | - | - | - | - | - | 120 | 168 | - | 157 | 185 | - |
| Stage 2 | - | - | - | - | - | - | - | 98 | 170 | - | 102 | 152 | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | | 0.74 | $ 3833.38 | $ 2442.56 |
| HCM LOS | | | F | F |

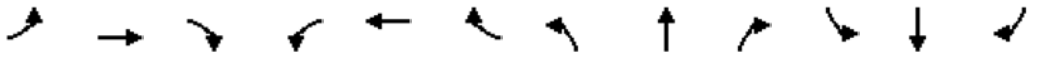
| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | SBLn2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 7 | 22 | + | - | - | 488 | - | - | 17 | 14 |
| HCM Lane V/C Ratio | 9.634 | 7.831 | - | - | - | 0.149 | - | - | 0.78 | 5.928 |
| HCM Control Delay (s/veh) | $ 4854 | $ 3415 | - | - | - | 13.7 | - | - | $ 450.3 | $ 2757.1 |
| HCM Lane LOS | F | F | - | - | - | B | - | - | F | F |
| HCM 95th %tile Q(veh) | 10.6 | 22.1 | - | - | - | 0.5 | - | - | 2 | 11.3 |

| Notes | | | |
|---|---|---|---|
| ~: Volume exceeds capacity | $: Delay exceeds 300s | +: Computation Not Defined | *: All major volume in platoon |

# HCM 7th Signalized Intersection Summary
## 6: Minnewawa Avenue & Shepherd Avenue

Cumulative Year 2046 plus Pro

04/08/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 75 | 944 | 176 | 128 | 985 | 178 | 301 | 441 | 151 | 141 | 272 | 45 |
| Future Volume (veh/h) | 75 | 944 | 176 | 128 | 985 | 178 | 301 | 441 | 151 | 141 | 272 | 45 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 82 | 1026 | 191 | 139 | 1071 | 193 | 327 | 479 | 164 | 153 | 296 | 49 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 871 | 2925 | 1304 | 164 | 775 | 657 | 215 | 507 | 430 | 160 | 466 | 395 |
| Arrive On Green | 0.49 | 0.83 | 0.83 | 0.09 | 0.42 | 0.42 | 0.12 | 0.27 | 0.27 | 0.09 | 0.25 | 0.25 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 82 | 1026 | 191 | 139 | 1071 | 193 | 327 | 479 | 164 | 153 | 296 | 49 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 3.2 | 9.1 | 3.1 | 10.1 | 54.3 | 10.6 | 15.8 | 32.9 | 15.3 | 11.2 | 18.5 | 2.6 |
| Cycle Q Clear(g_c), s | 3.2 | 9.1 | 3.1 | 10.1 | 54.3 | 10.6 | 15.8 | 32.9 | 15.3 | 11.2 | 18.5 | 2.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 871 | 2925 | 1304 | 164 | 775 | 657 | 215 | 507 | 430 | 160 | 466 | 395 |
| V/C Ratio(X) | 0.09 | 0.35 | 0.15 | 0.85 | 1.38 | 0.29 | 1.52 | 0.94 | 0.38 | 0.95 | 0.64 | 0.12 |
| Avail Cap(c_a), veh/h | 871 | 2925 | 1304 | 188 | 775 | 657 | 215 | 524 | 444 | 160 | 466 | 395 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 17.5 | 2.7 | 2.1 | 58.1 | 37.9 | 25.1 | 57.1 | 46.3 | 74.1 | 58.8 | 43.4 | 25.4 |
| Incr Delay (d2), s/veh | 0.0 | 0.3 | 0.2 | 26.5 | 179.9 | 1.1 | 257.4 | 25.8 | 0.6 | 57.3 | 2.8 | 0.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.3 | 1.8 | 0.6 | 5.6 | 61.7 | 4.0 | 22.2 | 18.3 | 6.1 | 7.4 | 8.5 | 1.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 17.6 | 3.0 | 2.4 | 84.5 | 217.7 | 26.3 | 314.5 | 72.1 | 74.6 | 116.1 | 46.2 | 25.5 |
| LnGrp LOS | B | A | A | F | F | C | F | E | E | F | D | C |
| Approach Vol, veh/h | | 1299 | | | 1403 | | | 970 | | | 498 | |
| Approach Delay, s/veh | | 3.8 | | | 178.2 | | | 154.2 | | | 65.7 | |
| Approach LOS | | A | | | F | | | F | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 17.8 | 40.8 | 16.2 | 115.3 | 20.0 | 38.6 | 71.5 | 60.0 |
| Change Period (Y+Rc), s | 6.0 | * 5.3 | 4.2 | 5.7 | 4.2 | 6.0 | 5.7 | * 5.7 |
| Max Green Setting (Gmax), s | 11.8 | * 37 | 13.8 | 48.3 | 15.8 | 32.0 | 7.8 | * 54 |
| Max Q Clear Time (g_c+I1), s | 13.2 | 34.9 | 12.1 | 11.1 | 17.8 | 20.5 | 5.2 | 56.3 |
| Green Ext Time (p_c), s | 0.0 | 0.6 | 0.1 | 8.6 | 0.0 | 1.2 | 0.0 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 104.9 |
| HCM 7th LOS | F |

**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

# HCM 7th Signalized Intersection Summary
## 7: Clovis Avenue & Shepherd Avenue

Cumulative Year 2046 plus Pro



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 222 | 800 | 159 | 151 | 940 | 329 | 236 | 671 | 182 | 268 | 397 | 129 |
| Future Volume (veh/h) | 222 | 800 | 159 | 151 | 940 | 329 | 236 | 671 | 182 | 268 | 397 | 129 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 241 | 870 | 173 | 164 | 1022 | 358 | 257 | 729 | 198 | 291 | 432 | 140 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 258 | 999 | 446 | 680 | 1473 | 657 | 281 | 873 | 389 | 348 | 699 | 312 |
| Arrive On Green | 0.08 | 0.28 | 0.28 | 0.20 | 0.42 | 0.42 | 0.16 | 0.25 | 0.25 | 0.10 | 0.20 | 0.20 |
| Sat Flow, veh/h | 3428 | 3526 | 1572 | 3428 | 3526 | 1572 | 1767 | 3526 | 1571 | 3428 | 3526 | 1570 |
| Grp Volume(v), veh/h | 241 | 870 | 173 | 164 | 1022 | 358 | 257 | 729 | 198 | 291 | 432 | 140 |
| Grp Sat Flow(s),veh/h/ln | 1714 | 1763 | 1572 | 1714 | 1763 | 1572 | 1767 | 1763 | 1571 | 1714 | 1763 | 1570 |
| Q Serve(g_s), s | 9.1 | 30.5 | 7.7 | 5.2 | 30.9 | 15.2 | 18.6 | 25.5 | 14.1 | 10.8 | 14.6 | 10.2 |
| Cycle Q Clear(g_c), s | 9.1 | 30.5 | 7.7 | 5.2 | 30.9 | 15.2 | 18.6 | 25.5 | 14.1 | 10.8 | 14.6 | 10.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 258 | 999 | 446 | 680 | 1473 | 657 | 281 | 873 | 389 | 348 | 699 | 312 |
| V/C Ratio(X) | 0.93 | 0.87 | 0.39 | 0.24 | 0.69 | 0.54 | 0.91 | 0.84 | 0.51 | 0.84 | 0.62 | 0.45 |
| Avail Cap(c_a), veh/h | 258 | 1166 | 520 | 680 | 1473 | 657 | 296 | 1139 | 507 | 443 | 1003 | 447 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 59.8 | 44.3 | 16.9 | 43.9 | 31.0 | 13.2 | 53.8 | 46.4 | 42.1 | 57.3 | 47.6 | 45.9 |
| Incr Delay (d2), s/veh | 38.1 | 10.3 | 2.5 | 0.2 | 2.7 | 3.2 | 30.2 | 4.3 | 1.0 | 10.6 | 0.9 | 1.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 5.2 | 14.2 | 4.4 | 2.2 | 13.0 | 5.5 | 10.4 | 11.4 | 5.4 | 5.1 | 6.3 | 4.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 97.9 | 54.6 | 19.5 | 44.1 | 33.7 | 16.4 | 83.9 | 50.7 | 43.1 | 68.0 | 48.5 | 46.9 |
| LnGrp LOS | F | D | B | D | C | B | F | D | D | E | D | D |
| Approach Vol, veh/h | | 1284 | | | 1544 | | | 1184 | | | 863 | |
| Approach Delay, s/veh | | 58.0 | | | 30.8 | | | 56.6 | | | 54.8 | |
| Approach LOS | | E | | | C | | | E | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 18.5 | 37.5 | 31.5 | 42.5 | 24.9 | 31.1 | 14.0 | 60.0 |
| Change Period (Y+Rc), s | 5.3 | * 5.3 | 5.7 | * 5.7 | 4.2 | 5.3 | 4.2 | 5.7 |
| Max Green Setting (Gmax), s | 16.8 | * 42 | 8.8 | * 43 | 21.8 | 37.0 | 9.8 | 42.0 |
| Max Q Clear Time (g_c+I1), s | 12.2 | 27.5 | 7.2 | 32.5 | 20.6 | 16.6 | 11.1 | 32.9 |
| Green Ext Time (p_c), s | 0.4 | 4.5 | 0.1 | 4.3 | 0.1 | 2.9 | 0.0 | 5.0 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 48.5 |
| HCM 7th LOS | D |

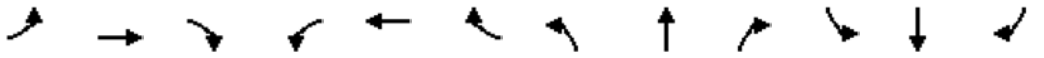
**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

# HCM 7th Signalized Intersection Summary
## 1: Minnewawa Avenue & Behymer Avenue

Cumulative Year 2046 plus Pro

04/09/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 3 | 219 | 111 | 6 | 272 | 298 | 147 | 313 | 13 | 153 | 292 | 5 |
| Future Volume (veh/h) | 3 | 219 | 111 | 6 | 272 | 298 | 147 | 313 | 13 | 153 | 292 | 5 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 3 | 226 | 114 | 6 | 280 | 307 | 152 | 323 | 13 | 158 | 301 | 5 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 11 | 423 | 214 | 22 | 299 | 328 | 189 | 395 | 16 | 196 | 412 | 7 |
| Arrive On Green | 0.01 | 0.36 | 0.36 | 0.01 | 0.37 | 0.37 | 0.11 | 0.22 | 0.22 | 0.11 | 0.23 | 0.23 |
| Sat Flow, veh/h | 1767 | 1163 | 587 | 1767 | 809 | 887 | 1767 | 1771 | 71 | 1767 | 1820 | 30 |
| Grp Volume(v), veh/h | 3 | 0 | 340 | 6 | 0 | 587 | 152 | 0 | 336 | 158 | 0 | 306 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 0 | 1750 | 1767 | 0 | 1696 | 1767 | 0 | 1843 | 1767 | 0 | 1850 |
| Q Serve(g_s), s | 0.1 | 0.0 | 10.8 | 0.2 | 0.0 | 23.4 | 5.9 | 0.0 | 12.2 | 6.1 | 0.0 | 10.8 |
| Cycle Q Clear(g_c), s | 0.1 | 0.0 | 10.8 | 0.2 | 0.0 | 23.4 | 5.9 | 0.0 | 12.2 | 6.1 | 0.0 | 10.8 |
| Prop In Lane | 1.00 | | 0.34 | 1.00 | | 0.52 | 1.00 | | 0.04 | 1.00 | | 0.02 |
| Lane Grp Cap(c), veh/h | 11 | 0 | 637 | 22 | 0 | 627 | 189 | 0 | 410 | 196 | 0 | 419 |
| V/C Ratio(X) | 0.27 | 0.00 | 0.53 | 0.28 | 0.00 | 0.94 | 0.80 | 0.00 | 0.82 | 0.81 | 0.00 | 0.73 |
| Avail Cap(c_a), veh/h | 196 | 0 | 672 | 196 | 0 | 651 | 221 | 0 | 681 | 221 | 0 | 684 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 34.8 | 0.0 | 17.6 | 34.4 | 0.0 | 21.3 | 30.7 | 0.0 | 26.0 | 30.5 | 0.0 | 25.2 |
| Incr Delay (d2), s/veh | 12.4 | 0.0 | 0.7 | 6.7 | 0.0 | 20.6 | 16.6 | 0.0 | 4.1 | 17.6 | 0.0 | 2.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.1 | 0.0 | 3.7 | 0.1 | 0.0 | 11.0 | 3.1 | 0.0 | 5.0 | 3.3 | 0.0 | 4.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 47.1 | 0.0 | 18.4 | 41.1 | 0.0 | 41.9 | 47.3 | 0.0 | 30.0 | 48.2 | 0.0 | 27.7 |
| LnGrp LOS | D | | B | D | | D | D | | C | D | | C |
| Approach Vol, veh/h | | 343 | | | 593 | | | 488 | | | 464 | |
| Approach Delay, s/veh | | 18.6 | | | 41.9 | | | 35.4 | | | 34.6 | |
| Approach LOS | | B | | | D | | | D | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.0 | 21.7 | 5.1 | 31.6 | 11.7 | 21.9 | 4.6 | 32.0 |
| Change Period (Y+Rc), s | 4.2 | 6.0 | 4.2 | 6.0 | 4.2 | 6.0 | 4.2 | 6.0 |
| Max Green Setting (Gmax), s | 8.8 | 26.0 | 7.8 | 27.0 | 8.8 | 26.0 | 7.8 | 27.0 |
| Max Q Clear Time (g_c+I1), s | 8.1 | 14.2 | 2.2 | 12.8 | 7.9 | 12.8 | 2.1 | 25.4 |
| Green Ext Time (p_c), s | 0.0 | 1.3 | 0.0 | 1.5 | 0.0 | 1.2 | 0.0 | 0.6 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 34.2 |
| HCM 7th LOS | C |

| Intersection | |
|---|---|
| Int Delay, s/veh | 5.3 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 23 | 30 | 159 | 12 | 42 | 49 | 33 | 440 | 10 | 25 | 428 | 26 |
| Future Vol, veh/h | 23 | 30 | 159 | 12 | 42 | 49 | 33 | 440 | 10 | 25 | 428 | 26 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 250 | - | 250 | 250 | - | - | 250 | - | - | 250 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 24 | 32 | 169 | 13 | 45 | 52 | 35 | 468 | 11 | 27 | 455 | 28 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1083 | 1071 | 469 | 1068 | 1080 | 473 | 483 | 0 | 0 | 479 | 0 | 0 |
| Stage 1 | 522 | 522 | - | 544 | 544 | - | - | - | - | - | - | - |
| Stage 2 | 561 | 549 | - | 524 | 536 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.13 | 6.53 | 6.23 | 7.13 | 6.53 | 6.23 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 4.027 | 3.327 | 3.527 | 4.027 | 3.327 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 194 | 220 | 592 | 199 | 217 | 589 | 1075 | - | - | 1078 | - | - |
| Stage 1 | 536 | 529 | - | 522 | 518 | - | - | - | - | - | - | - |
| Stage 2 | 511 | 515 | - | 534 | 522 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 132 | 207 | 592 | 114 | 205 | 589 | 1075 | - | - | 1078 | - | - |
| Mov Cap-2 Maneuver | 132 | 207 | - | 114 | 205 | - | - | - | - | - | - | - |
| Stage 1 | 523 | 516 | - | 505 | 501 | - | - | - | - | - | - | - |
| Stage 2 | 410 | 498 | - | 349 | 509 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 17.89 | 23.58 | 0.58 | 0.44 |
| HCM LOS | C | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | EBLn2 | EBLn3 | WBLn1 | WBLn2 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 1075 | - | - | 132 | 207 | 592 | 114 | 316 | 1078 | - | - |
| HCM Lane V/C Ratio | 0.033 | - | - | 0.185 | 0.154 | 0.286 | 0.112 | 0.307 | 0.025 | - | - |
| HCM Control Delay (s/veh) | 8.5 | - | - | 38.4 | 25.5 | 13.5 | 40.5 | 21.4 | 8.4 | - | - |
| HCM Lane LOS | A | - | - | E | D | B | E | C | A | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.7 | 0.5 | 1.2 | 0.4 | 1.3 | 0.1 | - | - |



| Movement | WBL | WBR | NBU | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Volume (veh/h) | 428 | 37 | 38 | 373 | 208 | 6 | 964 |
| Future Volume (veh/h) | 428 | 37 | 38 | 373 | 208 | 6 | 964 |
| Initial Q (Qb), veh | 0 | 0 | | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | | | 1.00 | 1.00 | |
| Parking Bus, Adj | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 465 | 40 | | 405 | 226 | 7 | 1048 |
| Peak Hour Factor | 0.92 | 0.92 | | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | | 3 | 3 | 3 | 3 |
| Cap, veh/h | 490 | 436 | | 1097 | 929 | 24 | 1189 |
| Arrive On Green | 0.28 | 0.28 | | 1.00 | 1.00 | 0.01 | 0.64 |
| Sat Flow, veh/h | 1767 | 1572 | | 1856 | 1572 | 1767 | 1856 |
| Grp Volume(v), veh/h | 465 | 40 | | 405 | 226 | 7 | 1048 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1572 | | 1856 | 1572 | 1767 | 1856 |
| Q Serve(g_s), s | 29.9 | 2.2 | | 0.0 | 0.0 | 0.5 | 54.1 |
| Cycle Q Clear(g_c), s | 29.9 | 2.2 | | 0.0 | 0.0 | 0.5 | 54.1 |
| Prop In Lane | 1.00 | 1.00 | | | 1.00 | 1.00 | |
| Lane Grp Cap(c), veh/h | 490 | 436 | | 1097 | 929 | 24 | 1189 |
| V/C Ratio(X) | 0.95 | 0.09 | | 0.37 | 0.24 | 0.29 | 0.88 |
| Avail Cap(c_a), veh/h | 503 | 447 | | 1097 | 929 | 119 | 1189 |
| HCM Platoon Ratio | 1.00 | 1.00 | | 2.00 | 2.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | | 0.85 | 0.85 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 41.1 | 31.1 | | 0.0 | 0.0 | 56.7 | 17.2 |
| Incr Delay (d2), s/veh | 27.5 | 0.1 | | 0.8 | 0.5 | 6.5 | 9.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 16.6 | 0.8 | | 0.2 | 0.1 | 0.2 | 22.5 |
| Unsig. Movement Delay, s/veh | | | | | | | |
| LnGrp Delay(d), s/veh | 68.6 | 31.2 | | 0.8 | 0.5 | 63.2 | 26.7 |
| LnGrp LOS | E | C | | A | A | E | C |
| Approach Vol, veh/h | 505 | | | 631 | | | 1055 |
| Approach Delay, s/veh | 65.6 | | | 0.7 | | | 27.0 |
| Approach LOS | E | | | A | | | C |

| Timer - Assigned Phs | 1 | 2 | | | | 6 | | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 5.8 | 73.9 | | | | 79.6 | | 36.4 |
| Change Period (Y+Rc), s | 4.2 | 5.3 | | | | 5.3 | | 4.2 |
| Max Green Setting (Gmax), s | 7.8 | 61.5 | | | | 61.5 | | 33.0 |
| Max Q Clear Time (g_c+I1), s | 2.5 | 2.0 | | | | 56.1 | | 31.9 |
| Green Ext Time (p_c), s | 0.0 | 3.2 | | | | 3.3 | | 0.2 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 28.3 |
| HCM 7th LOS | C |

**Notes**

User approved ignoring U-Turning movement.

AGENDA ITEM NO. 17.
04/09/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 18 | 950 | 149 | 224 | 836 | 50 | 30 | 49 | 86 | 117 | 74 | 176 |
| Future Volume (veh/h) | 18 | 950 | 149 | 224 | 836 | 50 | 30 | 49 | 86 | 117 | 74 | 176 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 20 | 1033 | 162 | 243 | 909 | 54 | 33 | 53 | 93 | 127 | 80 | 191 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 508 | 1584 | 706 | 268 | 1059 | 472 | 78 | 66 | 115 | 201 | 91 | 218 |
| Arrive On Green | 0.29 | 0.45 | 0.45 | 0.20 | 0.40 | 0.40 | 0.04 | 0.11 | 0.11 | 0.11 | 0.19 | 0.19 |
| Sat Flow, veh/h | 1767 | 3526 | 1571 | 1767 | 3526 | 1570 | 1767 | 604 | 1060 | 1767 | 486 | 1161 |
| Grp Volume(v), veh/h | 20 | 1033 | 162 | 243 | 909 | 54 | 33 | 0 | 146 | 127 | 0 | 271 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1571 | 1767 | 1763 | 1570 | 1767 | 0 | 1665 | 1767 | 0 | 1647 |
| Q Serve(g_s), s | 0.9 | 26.5 | 7.3 | 15.6 | 27.3 | 2.5 | 2.1 | 0.0 | 9.9 | 8.0 | 0.0 | 18.6 |
| Cycle Q Clear(g_c), s | 0.9 | 26.5 | 7.3 | 15.6 | 27.3 | 2.5 | 2.1 | 0.0 | 9.9 | 8.0 | 0.0 | 18.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.64 | 1.00 | | 0.70 |
| Lane Grp Cap(c), veh/h | 508 | 1584 | 706 | 268 | 1059 | 472 | 78 | 0 | 181 | 201 | 0 | 309 |
| V/C Ratio(X) | 0.04 | 0.65 | 0.23 | 0.91 | 0.86 | 0.11 | 0.42 | 0.00 | 0.81 | 0.63 | 0.00 | 0.88 |
| Avail Cap(c_a), veh/h | 508 | 1584 | 706 | 271 | 1428 | 636 | 119 | 0 | 459 | 201 | 0 | 483 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.33 | 1.33 | 1.33 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 0.72 | 0.72 | 0.72 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 29.8 | 24.9 | 19.6 | 45.5 | 32.6 | 25.1 | 54.0 | 0.0 | 50.5 | 49.1 | 0.0 | 45.8 |
| Incr Delay (d2), s/veh | 0.0 | 2.1 | 0.8 | 24.7 | 6.7 | 0.4 | 3.6 | 0.0 | 8.2 | 6.3 | 0.0 | 10.9 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.4 | 10.6 | 2.7 | 8.0 | 10.9 | 0.9 | 1.0 | 0.0 | 4.4 | 3.8 | 0.0 | 8.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 29.8 | 27.0 | 20.4 | 70.2 | 39.2 | 25.5 | 57.6 | 0.0 | 58.7 | 55.4 | 0.0 | 56.7 |
| LnGrp LOS | C | C | C | E | D | C | E | | E | E | | E |
| Approach Vol, veh/h | | 1215 | | | 1206 | | | 179 | | | 398 | |
| Approach Delay, s/veh | | 26.1 | | | 44.9 | | | 58.5 | | | 56.3 | |
| Approach LOS | | C | | | D | | | E | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 8.5 | 17.9 | 21.8 | 57.8 | 9.3 | 27.1 | 39.1 | 40.6 |
| Change Period (Y+Rc), s | 5.3 | * 5.3 | 4.2 | 5.7 | 4.2 | 5.3 | 5.7 | * 5.7 |
| Max Green Setting (Gmax), s | 9.8 | * 32 | 17.8 | 37.0 | 7.8 | 34.0 | 7.8 | * 47 |
| Max Q Clear Time (g_c+I1), s | 10.0 | 11.9 | 17.6 | 28.5 | 4.1 | 20.6 | 2.9 | 29.3 |
| Green Ext Time (p_c), s | 0.0 | 0.7 | 0.0 | 4.4 | 0.0 | 1.2 | 0.0 | 5.5 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 39.6 |
| HCM 7th LOS | D |

**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

# HCM 7th Signalized Intersection Summary
## 6: Minnewawa Avenue & Shepherd Avenue

Cumulative Year 2046 plus Pro



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 40 | 850 | 269 | 201 | 910 | 199 | 143 | 190 | 70 | 181 | 432 | 110 |
| Future Volume (veh/h) | 40 | 850 | 269 | 201 | 910 | 199 | 143 | 190 | 70 | 181 | 432 | 110 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 43 | 904 | 286 | 214 | 968 | 212 | 152 | 202 | 74 | 193 | 460 | 117 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 243 | 1003 | 448 | 300 | 1116 | 498 | 165 | 471 | 399 | 220 | 500 | 424 |
| Arrive On Green | 0.05 | 0.09 | 0.09 | 0.17 | 0.32 | 0.32 | 0.09 | 0.25 | 0.25 | 0.12 | 0.27 | 0.27 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 43 | 904 | 286 | 214 | 968 | 212 | 152 | 202 | 74 | 193 | 460 | 117 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 2.7 | 29.4 | 20.3 | 13.3 | 30.0 | 8.6 | 9.9 | 10.6 | 2.8 | 12.5 | 27.9 | 6.8 |
| Cycle Q Clear(g_c), s | 2.7 | 29.4 | 20.3 | 13.3 | 30.0 | 8.6 | 9.9 | 10.6 | 2.8 | 12.5 | 27.9 | 6.8 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 243 | 1003 | 448 | 300 | 1116 | 498 | 165 | 471 | 399 | 220 | 500 | 424 |
| V/C Ratio(X) | 0.18 | 0.90 | 0.64 | 0.71 | 0.87 | 0.43 | 0.92 | 0.43 | 0.19 | 0.88 | 0.92 | 0.28 |
| Avail Cap(c_a), veh/h | 243 | 1033 | 461 | 300 | 1276 | 569 | 165 | 512 | 434 | 225 | 565 | 479 |
| HCM Platoon Ratio | 0.33 | 0.33 | 0.33 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.71 | 0.71 | 0.71 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 49.0 | 50.9 | 46.8 | 45.5 | 37.3 | 15.0 | 52.2 | 36.2 | 14.9 | 49.9 | 41.1 | 33.4 |
| Incr Delay (d2), s/veh | 0.2 | 9.5 | 4.9 | 7.7 | 9.1 | 2.7 | 48.4 | 0.6 | 0.2 | 29.5 | 19.0 | 0.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.2 | 15.1 | 9.1 | 6.2 | 13.6 | 4.6 | 6.5 | 4.7 | 1.6 | 7.0 | 14.6 | 2.5 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 49.3 | 60.5 | 51.7 | 53.2 | 46.5 | 17.7 | 100.6 | 36.9 | 15.1 | 79.4 | 60.2 | 33.8 |
| LnGrp LOS | D | E | D | D | D | B | F | D | B | E | E | C |
| Approach Vol, veh/h | | 1233 | | | 1394 | | | 428 | | | 770 | |
| Approach Delay, s/veh | | 58.1 | | | 43.1 | | | 55.7 | | | 61.0 | |
| Approach LOS | | E | | | D | | | E | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 8.6 | 34.7 | 23.9 | 38.7 | 16.1 | 37.3 | 20.2 | 42.4 |
| Change Period (Y+Rc), s | 4.2 | 5.3 | 4.2 | 5.7 | 5.3 | * 6 | 4.2 | 5.7 |
| Max Green Setting (Gmax), s | 4.4 | 32.0 | 15.8 | 34.0 | 10.8 | * 35 | 7.8 | 42.0 |
| Max Q Clear Time (g_c+I1), s | 4.5 | 12.6 | 15.3 | 31.4 | 11.9 | 29.9 | 4.7 | 32.0 |
| Green Ext Time (p_c), s | 0.0 | 1.1 | 0.0 | 1.6 | 0.0 | 1.4 | 0.0 | 4.7 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 52.9 |
| HCM 7th LOS | D |

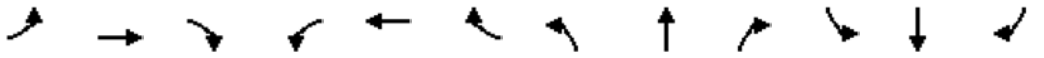
**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

# HCM 7th Signalized Intersection Summary
## 1: Minnewawa Avenue & Behymer Avenue

Cumulative Year 2046 plus Pro

04/09/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 97 | 228 | 105 | 5 | 201 | 222 | 97 | 304 | 16 | 184 | 274 | 6 |
| Future Volume (veh/h) | 97 | 228 | 105 | 5 | 201 | 222 | 97 | 304 | 16 | 184 | 274 | 6 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 105 | 248 | 114 | 5 | 218 | 241 | 105 | 330 | 17 | 200 | 298 | 7 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 159 | 455 | 209 | 18 | 240 | 265 | 159 | 389 | 20 | 223 | 467 | 11 |
| Arrive On Green | 0.09 | 0.38 | 0.38 | 0.01 | 0.30 | 0.30 | 0.09 | 0.22 | 0.22 | 0.13 | 0.26 | 0.26 |
| Sat Flow, veh/h | 1767 | 1203 | 553 | 1767 | 805 | 890 | 1767 | 1749 | 90 | 1767 | 1805 | 42 |
| Grp Volume(v), veh/h | 105 | 0 | 362 | 5 | 0 | 459 | 105 | 0 | 347 | 200 | 0 | 305 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 0 | 1756 | 1767 | 0 | 1695 | 1767 | 0 | 1839 | 1767 | 0 | 1848 |
| Q Serve(g_s), s | 4.5 | 0.0 | 12.5 | 0.2 | 0.0 | 20.2 | 4.5 | 0.0 | 14.0 | 8.6 | 0.0 | 11.4 |
| Cycle Q Clear(g_c), s | 4.5 | 0.0 | 12.5 | 0.2 | 0.0 | 20.2 | 4.5 | 0.0 | 14.0 | 8.6 | 0.0 | 11.4 |
| Prop In Lane | 1.00 | | 0.31 | 1.00 | | 0.53 | 1.00 | | 0.05 | 1.00 | | 0.02 |
| Lane Grp Cap(c), veh/h | 159 | 0 | 664 | 18 | 0 | 506 | 159 | 0 | 409 | 223 | 0 | 478 |
| V/C Ratio(X) | 0.66 | 0.00 | 0.55 | 0.28 | 0.00 | 0.91 | 0.66 | 0.00 | 0.85 | 0.90 | 0.00 | 0.64 |
| Avail Cap(c_a), veh/h | 178 | 0 | 664 | 178 | 0 | 568 | 178 | 0 | 617 | 223 | 0 | 667 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 34.1 | 0.0 | 18.9 | 38.1 | 0.0 | 26.2 | 34.1 | 0.0 | 28.9 | 33.4 | 0.0 | 25.5 |
| Incr Delay (d2), s/veh | 7.5 | 0.0 | 0.9 | 8.0 | 0.0 | 17.3 | 7.5 | 0.0 | 7.1 | 33.6 | 0.0 | 1.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.1 | 0.0 | 4.5 | 0.1 | 0.0 | 9.4 | 2.1 | 0.0 | 6.2 | 5.4 | 0.0 | 4.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 41.6 | 0.0 | 19.8 | 46.0 | 0.0 | 43.5 | 41.6 | 0.0 | 36.0 | 67.0 | 0.0 | 27.0 |
| LnGrp LOS | D | | B | D | | D | D | | D | E | | C |
| Approach Vol, veh/h | | 467 | | | 464 | | | 452 | | | 505 | |
| Approach Delay, s/veh | | 24.7 | | | 43.5 | | | 37.3 | | | 42.8 | |
| Approach LOS | | C | | | D | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 14.0 | 23.2 | 5.0 | 35.3 | 11.2 | 26.0 | 11.2 | 29.1 |
| Change Period (Y+Rc), s | 4.2 | 6.0 | 4.2 | 6.0 | 4.2 | 6.0 | 4.2 | 6.0 |
| Max Green Setting (Gmax), s | 9.8 | 26.0 | 7.8 | 26.0 | 7.8 | 28.0 | 7.8 | 26.0 |
| Max Q Clear Time (g_c+I1), s | 10.6 | 16.0 | 2.2 | 14.5 | 6.5 | 13.4 | 6.5 | 22.2 |
| Green Ext Time (p_c), s | 0.0 | 1.2 | 0.0 | 1.4 | 0.0 | 1.2 | 0.0 | 0.9 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 37.2 |
| HCM 7th LOS | D |

| Intersection | |
|---|---|
| Int Delay, s/veh | 5.9 |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 23 | 68 | 47 | 17 | 14 | 32 | 67 | 508 | 39 | 32 | 357 | 62 |
| Future Vol, veh/h | 23 | 68 | 47 | 17 | 14 | 32 | 67 | 508 | 39 | 32 | 357 | 62 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 250 | - | 250 | 250 | - | - | 250 | - | - | 250 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mvmt Flow | 25 | 74 | 51 | 18 | 15 | 35 | 73 | 552 | 42 | 35 | 388 | 67 |

| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conflicting Flow All | 1197 | 1232 | 422 | 1214 | 1244 | 573 | 455 | 0 | 0 | 595 | 0 | 0 |
| Stage 1 | 491 | 491 | - | 719 | 719 | - | - | - | - | - | - | - |
| Stage 2 | 705 | 740 | - | 495 | 525 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.13 | 6.53 | 6.23 | 7.13 | 6.53 | 6.23 | 4.13 | - | - | 4.13 | - | - |
| Critical Hdwy Stg 1 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.13 | 5.53 | - | 6.13 | 5.53 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.527 | 4.027 | 3.327 | 3.527 | 4.027 | 3.327 | 2.227 | - | - | 2.227 | - | - |
| Pot Cap-1 Maneuver | 162 | 176 | 630 | 158 | 173 | 517 | 1100 | - | - | 977 | - | - |
| Stage 1 | 557 | 546 | - | 418 | 431 | - | - | - | - | - | - | - |
| Stage 2 | 425 | 422 | - | 555 | 528 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 124 | 159 | 630 | 73 | 156 | 517 | 1100 | - | - | 977 | - | - |
| Mov Cap-2 Maneuver | 124 | 159 | - | 73 | 156 | - | - | - | - | - | - | - |
| Stage 1 | 537 | 527 | - | 390 | 403 | - | - | - | - | - | - | - |
| Stage 2 | 356 | 394 | - | 423 | 509 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| HCM Control Delay, s/v | 33.35 | 32.92 | 0.93 | 0.63 |
| HCM LOS | D | D | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | EBLn2 | EBLn3 | WBLn1 | WBLn2 | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity (veh/h) | 1100 | - | - | 124 | 159 | 630 | 73 | 303 | 977 | - | - |
| HCM Lane V/C Ratio | 0.066 | - | - | 0.202 | 0.465 | 0.081 | 0.252 | 0.165 | 0.036 | - | - |
| HCM Control Delay (s/veh) | 8.5 | - | - | 41.2 | 46 | 11.2 | 70.1 | 19.2 | 8.8 | - | - |
| HCM Lane LOS | A | - | - | E | E | B | F | C | A | - | - |
| HCM 95th %tile Q(veh) | 0.2 | - | - | 0.7 | 2.2 | 0.3 | 0.9 | 0.6 | 0.1 | - | - |



| Movement | WBL | WBR | NBU | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | |
| Traffic Volume (veh/h) | 319 | 14 | 23 | 774 | 482 | 22 | 489 |
| Future Volume (veh/h) | 319 | 14 | 23 | 774 | 482 | 22 | 489 |
| Initial Q (Qb), veh | 0 | 0 | | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | | | 1.00 | 1.00 | |
| Parking Bus, Adj | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 347 | 15 | | 841 | 524 | 24 | 532 |
| Peak Hour Factor | 0.92 | 0.92 | | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | | 3 | 3 | 3 | 3 |
| Cap, veh/h | 378 | 337 | | 1142 | 968 | 109 | 1319 |
| Arrive On Green | 0.21 | 0.21 | | 0.62 | 0.62 | 0.06 | 0.71 |
| Sat Flow, veh/h | 1767 | 1572 | | 1856 | 1572 | 1767 | 1856 |
| Grp Volume(v), veh/h | 347 | 15 | | 841 | 524 | 24 | 532 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1572 | | 1856 | 1572 | 1767 | 1856 |
| Q Serve(g_s), s | 24.2 | 1.0 | | 40.2 | 24.2 | 1.6 | 14.7 |
| Cycle Q Clear(g_c), s | 24.2 | 1.0 | | 40.2 | 24.2 | 1.6 | 14.7 |
| Prop In Lane | 1.00 | 1.00 | | | 1.00 | 1.00 | |
| Lane Grp Cap(c), veh/h | 378 | 337 | | 1142 | 968 | 109 | 1319 |
| V/C Ratio(X) | 0.92 | 0.04 | | 0.74 | 0.54 | 0.22 | 0.40 |
| Avail Cap(c_a), veh/h | 488 | 434 | | 1142 | 968 | 109 | 1319 |
| HCM Platoon Ratio | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | | 0.61 | 0.61 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 48.4 | 39.3 | | 17.0 | 14.0 | 56.2 | 7.4 |
| Incr Delay (d2), s/veh | 19.1 | 0.1 | | 2.6 | 1.3 | 1.0 | 0.9 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 12.6 | 0.4 | | 16.1 | 8.1 | 0.7 | 5.2 |
| Unsig. Movement Delay, s/veh | | | | | | | |
| LnGrp Delay(d), s/veh | 67.6 | 39.4 | | 19.7 | 15.3 | 57.2 | 8.3 |
| LnGrp LOS | E | D | | B | B | E | A |
| Approach Vol, veh/h | 362 | | | 1365 | | | 556 |
| Approach Delay, s/veh | 66.4 | | | 18.0 | | | 10.4 |
| Approach LOS | E | | | B | | | B |

| Timer - Assigned Phs | 1 | 2 | | | | 6 | | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 12.0 | 82.8 | | | | 94.8 | | 31.2 |
| Change Period (Y+Rc), s | 4.2 | 5.3 | | | | 5.3 | | 4.2 |
| Max Green Setting (Gmax), s | 7.8 | 69.7 | | | | 69.7 | | 34.8 |
| Max Q Clear Time (g_c+I1), s | 3.6 | 42.2 | | | | 16.7 | | 26.2 |
| Green Ext Time (p_c), s | 0.0 | 8.8 | | | | 3.4 | | 0.8 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 23.8 |
| HCM 7th LOS | C |

**Notes**

User approved ignoring U-Turning movement.

# HCM 7th Signalized Intersection Summary
## 5: Peach Avenue & Shepherd Avenue

Cumulative Year 2046 plus Pro

04/09/2024



| Movement | EBU | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 2 | 66 | 1187 | 85 | 67 | 1036 | 140 | 66 | 84 | 77 | 12 | 63 | 13 |
| Future Volume (veh/h) | 2 | 66 | 1187 | 85 | 67 | 1036 | 140 | 66 | 84 | 77 | 12 | 63 | 13 |
| Initial Q (Qb), veh | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | | 72 | 1290 | 92 | 73 | 1126 | 152 | 72 | 91 | 84 | 13 | 68 | 14 |
| Peak Hour Factor | | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | | 101 | 1427 | 635 | 503 | 2271 | 1011 | 129 | 109 | 100 | 40 | 94 | 19 |
| Arrive On Green | | 0.06 | 0.40 | 0.40 | 0.57 | 1.00 | 1.00 | 0.07 | 0.12 | 0.12 | 0.02 | 0.06 | 0.06 |
| Sat Flow, veh/h | | 1767 | 3526 | 1569 | 1767 | 3526 | 1570 | 1767 | 888 | 820 | 1767 | 1493 | 307 |
| Grp Volume(v), veh/h | | 72 | 1290 | 92 | 73 | 1126 | 152 | 72 | 0 | 175 | 13 | 0 | 82 |
| Grp Sat Flow(s),veh/h/ln | | 1767 | 1763 | 1569 | 1767 | 1763 | 1570 | 1767 | 0 | 1708 | 1767 | 0 | 1800 |
| Q Serve(g_s), s | | 5.0 | 43.3 | 4.7 | 2.4 | 0.0 | 0.0 | 5.0 | 0.0 | 12.6 | 0.9 | 0.0 | 5.6 |
| Cycle Q Clear(g_c), s | | 5.0 | 43.3 | 4.7 | 2.4 | 0.0 | 0.0 | 5.0 | 0.0 | 12.6 | 0.9 | 0.0 | 5.6 |
| Prop In Lane | | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.48 | 1.00 | | 0.17 |
| Lane Grp Cap(c), veh/h | | 101 | 1427 | 635 | 503 | 2271 | 1011 | 129 | 0 | 209 | 40 | 0 | 114 |
| V/C Ratio(X) | | 0.72 | 0.90 | 0.14 | 0.15 | 0.50 | 0.15 | 0.56 | 0.00 | 0.84 | 0.33 | 0.00 | 0.72 |
| Avail Cap(c_a), veh/h | | 137 | 1539 | 685 | 503 | 2271 | 1011 | 137 | 0 | 461 | 109 | 0 | 457 |
| HCM Platoon Ratio | | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | | 1.00 | 1.00 | 1.00 | 0.46 | 0.46 | 0.46 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | | 58.4 | 35.2 | 23.7 | 20.0 | 0.0 | 0.0 | 56.4 | 0.0 | 54.1 | 60.6 | 0.0 | 57.9 |
| Incr Delay (d2), s/veh | | 10.5 | 9.7 | 0.5 | 0.1 | 0.4 | 0.1 | 4.3 | 0.0 | 8.6 | 4.6 | 0.0 | 8.3 |
| Initial Q Delay(d3), s/veh | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | | 2.5 | 19.3 | 1.8 | 1.0 | 0.1 | 0.0 | 2.3 | 0.0 | 5.8 | 0.5 | 0.0 | 2.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | | 69.0 | 44.9 | 24.2 | 20.0 | 0.4 | 0.1 | 60.8 | 0.0 | 62.6 | 65.2 | 0.0 | 66.2 |
| LnGrp LOS | | E | D | C | C | A | A | E | | E | E | | E |
| Approach Vol, veh/h | | | 1454 | | | 1351 | | | 247 | | | 95 | |
| Approach Delay, s/veh | | | 44.8 | | | 1.4 | | | 62.1 | | | 66.1 | |
| Approach LOS | | | D | | | A | | | E | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 7.1 | 20.7 | 41.5 | 56.7 | 14.5 | 13.3 | 11.4 | 86.9 |
| Change Period (Y+Rc), s | 4.2 | 5.3 | 5.7 | * 5.7 | 5.3 | * 5.3 | 4.2 | 5.7 |
| Max Green Setting (Gmax), s | 7.8 | 34.0 | 9.8 | * 55 | 9.8 | * 32 | 9.8 | 55.0 |
| Max Q Clear Time (g_c+I1), s | 2.9 | 14.6 | 4.4 | 45.3 | 7.0 | 7.6 | 7.0 | 2.0 |
| Green Ext Time (p_c), s | 0.0 | 0.8 | 0.1 | 5.7 | 0.0 | 0.3 | 0.0 | 10.1 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 28.2 |
| HCM 7th LOS | C |

**Notes**

User approved ignoring U-Turning movement.

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 75 | 944 | 176 | 128 | 985 | 178 | 301 | 441 | 151 | 141 | 272 | 45 |
| Future Volume (veh/h) | 75 | 944 | 176 | 128 | 985 | 178 | 301 | 441 | 151 | 141 | 272 | 45 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 82 | 1026 | 191 | 139 | 1071 | 193 | 327 | 479 | 164 | 153 | 296 | 49 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 218 | 1326 | 591 | 151 | 1151 | 513 | 335 | 526 | 446 | 178 | 335 | 284 |
| Arrive On Green | 0.12 | 0.38 | 0.38 | 0.09 | 0.33 | 0.33 | 0.19 | 0.28 | 0.28 | 0.10 | 0.18 | 0.18 |
| Sat Flow, veh/h | 1767 | 3526 | 1572 | 1767 | 3526 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Grp Volume(v), veh/h | 82 | 1026 | 191 | 139 | 1071 | 193 | 327 | 479 | 164 | 153 | 296 | 49 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1763 | 1572 | 1767 | 1763 | 1572 | 1767 | 1856 | 1572 | 1767 | 1856 | 1572 |
| Q Serve(g_s), s | 5.4 | 32.3 | 6.0 | 9.8 | 37.0 | 8.7 | 23.2 | 31.4 | 10.5 | 10.7 | 19.6 | 3.3 |
| Cycle Q Clear(g_c), s | 5.4 | 32.3 | 6.0 | 9.8 | 37.0 | 8.7 | 23.2 | 31.4 | 10.5 | 10.7 | 19.6 | 3.3 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 218 | 1326 | 591 | 151 | 1151 | 513 | 335 | 526 | 446 | 178 | 335 | 284 |
| V/C Ratio(X) | 0.38 | 0.77 | 0.32 | 0.92 | 0.93 | 0.38 | 0.98 | 0.91 | 0.37 | 0.86 | 0.88 | 0.17 |
| Avail Cap(c_a), veh/h | 218 | 1326 | 591 | 151 | 1184 | 528 | 335 | 629 | 533 | 194 | 471 | 399 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.75 | 0.75 | 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 50.8 | 34.6 | 8.6 | 57.2 | 41.0 | 17.5 | 50.8 | 43.6 | 36.1 | 55.8 | 50.3 | 43.7 |
| Incr Delay (d2), s/veh | 0.8 | 3.4 | 1.1 | 49.4 | 14.3 | 2.1 | 42.7 | 15.8 | 0.5 | 28.4 | 13.6 | 0.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.4 | 13.7 | 3.8 | 6.3 | 17.5 | 0.3 | 13.9 | 16.2 | 4.0 | 6.0 | 10.0 | 1.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 51.6 | 38.0 | 9.7 | 106.6 | 55.4 | 19.6 | 93.4 | 59.4 | 36.6 | 84.1 | 63.9 | 44.0 |
| LnGrp LOS | D | D | A | F | E | B | F | E | D | F | E | D |
| Approach Vol, veh/h | | 1299 | | | 1403 | | | 970 | | | 498 | |
| Approach Delay, s/veh | | 34.7 | | | 55.5 | | | 67.0 | | | 68.2 | |
| Approach LOS | | C | | | E | | | E | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 16.9 | 41.0 | 15.0 | 53.1 | 29.2 | 28.7 | 21.2 | 46.8 |
| Change Period (Y+Rc), s | 4.2 | 5.3 | 4.2 | 5.7 | 5.3 | * 6 | 5.7 | * 5.7 |
| Max Green Setting (Gmax), s | 13.8 | 42.7 | 10.8 | 39.3 | 23.8 | * 32 | 7.8 | * 42 |
| Max Q Clear Time (g_c+I1), s | 12.7 | 33.4 | 11.8 | 34.3 | 25.2 | 21.6 | 7.4 | 39.0 |
| Green Ext Time (p_c), s | 0.0 | 2.3 | 0.0 | 3.0 | 0.0 | 1.1 | 0.0 | 2.1 |

| Intersection Summary | |
|---|---|
| HCM 7th Control Delay, s/veh | 53.2 |
| HCM 7th LOS | D |

**Notes**

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

## Intersection: 1: Minnewawa Avenue & Behymer Avenue

| Movement | EB | EB | WB | WB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|---|---|
| Directions Served | L | TR | L | TR | L | TR | L | TR |
| Maximum Queue (ft) | 30 | 183 | 370 | 593 | 139 | 273 | 162 | 182 |
| Average Queue (ft) | 2 | 97 | 20 | 279 | 80 | 136 | 85 | 99 |
| 95th Queue (ft) | 13 | 167 | 129 | 537 | 144 | 233 | 147 | 175 |
| Link Distance (ft) | | 2601 | | 3212 | | 2582 | | 2588 |
| Upstream Blk Time (%) | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | |
| Storage Bay Dist (ft) | 250 | | 250 | | 250 | | 250 | |
| Storage Blk Time (%) | | | | 22 | | 1 | | |
| Queuing Penalty (veh) | | | | 1 | | 1 | | |

## Intersection: 2: Minnewawa Avenue & Perrin Avenue

| Movement | EB | EB | EB | WB | WB | NB | SB |
|---|---|---|---|---|---|---|---|
| Directions Served | L | T | R | L | TR | L | L |
| Maximum Queue (ft) | 31 | 52 | 118 | 28 | 52 | 25 | 31 |
| Average Queue (ft) | 15 | 25 | 48 | 12 | 30 | 6 | 8 |
| 95th Queue (ft) | 36 | 47 | 83 | 33 | 40 | 21 | 28 |
| Link Distance (ft) | | 4816 | | | 1426 | | |
| Upstream Blk Time (%) | | | | | | | |
| Queuing Penalty (veh) | | | | | | | |
| Storage Bay Dist (ft) | 250 | | 250 | 250 | | 250 | 250 |
| Storage Blk Time (%) | | | | | | | |
| Queuing Penalty (veh) | | | | | | | |

## Intersection: 3: Clovis Avenue & Perrin Avenue

| Movement | EB | NB |
|---|---|---|
| Directions Served | LR | LT |
| Maximum Queue (ft) | 70 | 268 |
| Average Queue (ft) | 38 | 70 |
| 95th Queue (ft) | 65 | 214 |
| Link Distance (ft) | 1426 | 1658 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

## Intersection: 4: Clovis Avenue & Baron Avenue

| Movement | WB | WB | NB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|---|
| Directions Served | L | R | U | T | R | L | T |
| Maximum Queue (ft) | 200 | 699 | 92 | 194 | 122 | 31 | 1306 |
| Average Queue (ft) | 194 | 445 | 34 | 84 | 36 | 4 | 648 |
| 95th Queue (ft) | 216 | 732 | 77 | 181 | 84 | 20 | 1114 |
| Link Distance (ft) | | 1517 | | 1269 | 1269 | | 1658 |
| Upstream Blk Time (%) | | | | | | | |
| Queuing Penalty (veh) | | | | | | | |
| Storage Bay Dist (ft) | 100 | | 140 | | | 250 | |
| Storage Blk Time (%) | 65 | | | 5 | | | 35 |
| Queuing Penalty (veh) | 24 | | | 2 | | | 2 |

## Intersection: 5: Peach Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | UL | T | T | R | L | T | T | R | L | TR | L | TR |
| Maximum Queue (ft) | 53 | 359 | 418 | 180 | 370 | 587 | 513 | 370 | 67 | 206 | 199 | 281 |
| Average Queue (ft) | 16 | 227 | 238 | 114 | 259 | 203 | 162 | 23 | 26 | 83 | 82 | 131 |
| 95th Queue (ft) | 49 | 346 | 388 | 232 | 412 | 499 | 407 | 133 | 58 | 175 | 156 | 237 |
| Link Distance (ft) | | 2694 | 2694 | | | 2549 | 2549 | | | 2538 | | 1268 |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 250 | | | 100 | 250 | | | 250 | 220 | | 220 | |
| Storage Blk Time (%) | | 6 | 35 | 1 | 34 | 4 | 6 | | | 0 | | 3 |
| Queuing Penalty (veh) | | 1 | 52 | 3 | 142 | 10 | 3 | | | 0 | | 3 |

## Intersection: 6: Minnewawa Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | NB | NB | NB | SB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | L | T | T | R | L | T | T | R | L | T | R | L |
| Maximum Queue (ft) | 116 | 528 | 458 | 150 | 243 | 393 | 384 | 370 | 202 | 198 | 64 | 379 |
| Average Queue (ft) | 41 | 178 | 200 | 104 | 120 | 170 | 172 | 45 | 125 | 101 | 23 | 156 |
| 95th Queue (ft) | 93 | 362 | 379 | 190 | 221 | 325 | 325 | 149 | 207 | 179 | 47 | 282 |
| Link Distance (ft) | | 2549 | 2549 | | | 1269 | 1269 | | | 2555 | 2555 | |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 240 | | | 50 | 220 | | | 250 | 230 | | | 260 |
| Storage Blk Time (%) | | 4 | 47 | 13 | 2 | 10 | 7 | | | | | 0 |
| Queuing Penalty (veh) | | 2 | 127 | 53 | 8 | 19 | 14 | | | | | 1 |

## Intersection: 6: Minnewawa Avenue & Shepherd Avenue

| Movement | SB | SB |
|---|---|---|
| Directions Served | T | R |
| Maximum Queue (ft) | 457 | 200 |
| Average Queue (ft) | 267 | 94 |
| 95th Queue (ft) | 423 | 239 |
| Link Distance (ft) | 2548 | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | 100 |
| Storage Blk Time (%) | 41 | 1 |
| Queuing Penalty (veh) | 120 | 4 |

## Intersection: 7: Clovis Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | EB | WB | WB | WB | WB | WB | NB | NB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | L | L | T | T | R | L | L | T | T | R | L | T |
| Maximum Queue (ft) | 91 | 362 | 363 | 367 | 110 | 177 | 262 | 335 | 356 | 275 | 200 | 178 |
| Average Queue (ft) | 44 | 57 | 276 | 263 | 88 | 94 | 116 | 216 | 209 | 37 | 112 | 112 |
| 95th Queue (ft) | 84 | 199 | 353 | 354 | 137 | 166 | 195 | 296 | 302 | 114 | 186 | 178 |
| Link Distance (ft) | | | 1207 | 1207 | | | | 2012 | 2012 | | | 2554 |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 250 | 250 | | | 50 | 250 | 250 | | | 175 | 230 | |
| Storage Blk Time (%) | | 0 | 9 | 30 | 8 | | 0 | 3 | 18 | | | |
| Queuing Penalty (veh) | | 0 | 10 | 56 | 33 | | 0 | 8 | 27 | | | |

## Intersection: 7: Clovis Avenue & Shepherd Avenue

| Movement | NB | NB | SB | SB | SB | SB | SB |
|---|---|---|---|---|---|---|---|
| Directions Served | T | R | L | L | T | T | R |
| Maximum Queue (ft) | 237 | 100 | 250 | 388 | 390 | 370 | 190 |
| Average Queue (ft) | 93 | 41 | 122 | 141 | 256 | 276 | 142 |
| 95th Queue (ft) | 176 | 96 | 189 | 260 | 342 | 359 | 250 |
| Link Distance (ft) | 2554 | | | | 1269 | 1269 | |
| Upstream Blk Time (%) | | | | | | | |
| Queuing Penalty (veh) | | | | | | | |
| Storage Bay Dist (ft) | | 50 | 250 | 250 | | | 100 |
| Storage Blk Time (%) | 27 | 2 | 0 | 1 | 6 | 40 | 1 |
| Queuing Penalty (veh) | 21 | 4 | 0 | 3 | 25 | 67 | 5 |

## Network Summary

Network wide Queuing Penalty: 855

## Intersection: 1: Minnewawa Avenue & Behymer Avenue

| Movement | EB | EB | WB | WB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|---|---|
| Directions Served | L | TR | L | TR | L | TR | L | TR |
| Maximum Queue (ft) | 135 | 200 | 31 | 268 | 182 | 332 | 367 | 538 |
| Average Queue (ft) | 66 | 110 | 4 | 177 | 79 | 151 | 154 | 124 |
| 95th Queue (ft) | 113 | 179 | 19 | 261 | 151 | 273 | 281 | 285 |
| Link Distance (ft) | | 2601 | | 3212 | | 2582 | | 2588 |
| Upstream Blk Time (%) | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | |
| Storage Bay Dist (ft) | 250 | | 250 | | 250 | | 250 | |
| Storage Blk Time (%) | | | | 1 | | 2 | 7 | 0 |
| Queuing Penalty (veh) | | | | 0 | | 2 | 19 | 0 |

## Intersection: 2: Minnewawa Avenue & Perrin Avenue

| Movement | EB | EB | EB | WB | WB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|---|---|---|
| Directions Served | L | T | R | L | TR | L | TR | L | TR |
| Maximum Queue (ft) | 53 | 114 | 52 | 52 | 53 | 47 | 12 | 31 | 22 |
| Average Queue (ft) | 17 | 41 | 22 | 11 | 28 | 15 | 0 | 7 | 1 |
| 95th Queue (ft) | 42 | 76 | 41 | 35 | 47 | 37 | 4 | 27 | 7 |
| Link Distance (ft) | | 4816 | | | 1423 | | 2548 | | 2582 |
| Upstream Blk Time (%) | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | |
| Storage Bay Dist (ft) | 250 | | 250 | 250 | | 250 | | 250 | |
| Storage Blk Time (%) | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | |

## Intersection: 3: Clovis Avenue & Perrin Avenue

| Movement | EB | NB |
|---|---|---|
| Directions Served | LR | LT |
| Maximum Queue (ft) | 118 | 98 |
| Average Queue (ft) | 56 | 25 |
| 95th Queue (ft) | 107 | 77 |
| Link Distance (ft) | 1423 | 1679 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

## Intersection: 4: Clovis Avenue & Baron Avenue

| Movement | WB | WB | NB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|---|
| Directions Served | L | R | U | T | R | L | T |
| Maximum Queue (ft) | 199 | 467 | 96 | 415 | 172 | 74 | 354 |
| Average Queue (ft) | 175 | 140 | 27 | 108 | 49 | 25 | 141 |
| 95th Queue (ft) | 231 | 388 | 64 | 252 | 105 | 60 | 274 |
| Link Distance (ft) | | 1505 | | 1268 | 1268 | | 1679 |
| Upstream Blk Time (%) | | | | | | | |
| Queuing Penalty (veh) | | | | | | | |
| Storage Bay Dist (ft) | 100 | | 140 | | | 250 | |
| Storage Blk Time (%) | 40 | 0 | | 3 | | | 2 |
| Queuing Penalty (veh) | 6 | 0 | | 1 | | | 0 |

## Intersection: 5: Peach Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | NB | NB | SB | SB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | UL | T | T | R | L | T | T | R | L | TR | L | TR |
| Maximum Queue (ft) | 369 | 518 | 581 | 180 | 114 | 355 | 377 | 78 | 153 | 324 | 68 | 127 |
| Average Queue (ft) | 92 | 231 | 247 | 59 | 59 | 211 | 221 | 39 | 59 | 111 | 11 | 49 |
| 95th Queue (ft) | 188 | 389 | 409 | 161 | 109 | 341 | 359 | 78 | 116 | 233 | 37 | 109 |
| Link Distance (ft) | | 2694 | 2694 | | | 2549 | 2549 | | | 2538 | | 1284 |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 250 | | | 100 | 250 | | | 250 | 220 | | 220 | |
| Storage Blk Time (%) | | 8 | 29 | | | 6 | 8 | | | 3 | | |
| Queuing Penalty (veh) | | 6 | 25 | | | 4 | 11 | | | 2 | | |

## Intersection: 6: Minnewawa Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | NB | NB | NB | SB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | L | T | T | R | L | T | T | R | L | T | R | L |
| Maximum Queue (ft) | 276 | 475 | 567 | 150 | 340 | 451 | 476 | 370 | 350 | 624 | 143 | 264 |
| Average Queue (ft) | 91 | 249 | 272 | 98 | 172 | 340 | 343 | 175 | 262 | 310 | 42 | 110 |
| 95th Queue (ft) | 192 | 435 | 467 | 193 | 321 | 432 | 452 | 391 | 382 | 479 | 98 | 199 |
| Link Distance (ft) | | 2549 | 2549 | | | 1269 | 1269 | | | 2555 | 2555 | |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 240 | | | 50 | 220 | | | 250 | 230 | | | 260 |
| Storage Blk Time (%) | | 15 | 50 | 4 | 1 | 31 | 27 | | 17 | 19 | | 0 |
| Queuing Penalty (veh) | | 12 | 88 | 20 | 3 | 40 | 49 | | 74 | 57 | | 1 |

## Intersection: 6: Minnewawa Avenue & Shepherd Avenue

| Movement | SB | SB |
|---|---|---|
| Directions Served | T | R |
| Maximum Queue (ft) | 330 | 200 |
| Average Queue (ft) | 167 | 42 |
| 95th Queue (ft) | 295 | 148 |
| Link Distance (ft) | 2548 | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | 100 |
| Storage Blk Time (%) | 29 | 0 |
| Queuing Penalty (veh) | 54 | 0 |

## Intersection: 7: Clovis Avenue & Shepherd Avenue

| Movement | EB | EB | EB | EB | EB | WB | WB | WB | WB | WB | NB | NB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Directions Served | L | L | T | T | R | L | L | T | T | R | L | T |
| Maximum Queue (ft) | 241 | 365 | 518 | 492 | 110 | 96 | 370 | 409 | 458 | 275 | 330 | 449 |
| Average Queue (ft) | 116 | 207 | 352 | 331 | 70 | 45 | 108 | 280 | 298 | 186 | 196 | 255 |
| 95th Queue (ft) | 197 | 409 | 511 | 484 | 141 | 87 | 271 | 376 | 416 | 351 | 325 | 402 |
| Link Distance (ft) | | | 1207 | 1207 | | | | 2012 | 2012 | | | 2554 |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 250 | 250 | | | 50 | 250 | 250 | | | 175 | 230 | |
| Storage Blk Time (%) | 0 | 0 | 26 | 37 | 4 | | 0 | 13 | 31 | 1 | 5 | 15 |
| Queuing Penalty (veh) | 0 | 1 | 57 | 59 | 18 | | 0 | 20 | 101 | 4 | 17 | 35 |

## Intersection: 7: Clovis Avenue & Shepherd Avenue

| Movement | NB | NB | SB | SB | SB | SB | SB |
|---|---|---|---|---|---|---|---|
| Directions Served | T | R | L | L | T | T | R |
| Maximum Queue (ft) | 464 | 100 | 268 | 278 | 301 | 299 | 190 |
| Average Queue (ft) | 256 | 77 | 112 | 110 | 140 | 140 | 63 |
| 95th Queue (ft) | 397 | 131 | 186 | 195 | 233 | 230 | 138 |
| Link Distance (ft) | 2554 | | | | 1268 | 1268 | |
| Upstream Blk Time (%) | | | | | | | |
| Queuing Penalty (veh) | | | | | | | |
| Storage Bay Dist (ft) | | 50 | 250 | 250 | | | 100 |
| Storage Blk Time (%) | 49 | 7 | 0 | 0 | 1 | 31 | 3 |
| Queuing Penalty (veh) | 89 | 22 | 0 | 0 | 2 | 40 | 7 |

## Network Summary

Network wide Queuing Penalty: 945

# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Cumulative Year 2046 plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Minnewawa Avenue between Behymer Avenue and Perrin Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 545 | Opposing Demand Flow Rate, veh/h | 510 |
| Peak Hour Factor | 0.94 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.32 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.55798 | Speed Power Coefficient | 0.48081 |
| PF Slope Coefficient | -1.26869 | PF Power Coefficient | 0.78827 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 5.3 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 56.0 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 56.0 | Percent Followers, % | 54.4 |
| Segment Travel Time, minutes | 1.07 | Follower Density, followers/mi/ln | 5.3 |
| Vehicle LOS | C | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 5.3 | C |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Cumulative Year 2046 plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Minnewawa Avenue between Behymer Avenue and Perrin Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 647 | Opposing Demand Flow Rate, veh/h | 530 |
| Peak Hour Factor | 0.87 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.38 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.56260 | Speed Power Coefficient | 0.47820 |
| PF Slope Coefficient | -1.27085 | PF Power Coefficient | 0.78738 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 6.9 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 55.7 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 55.7 | Percent Followers, % | 59.4 |
| Segment Travel Time, minutes | 1.08 | Follower Density, followers/mi/ln | 6.9 |
| Vehicle LOS | C | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 6.9 | C |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Cumulative Year 2046 plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Minnewawa Avenue between Perrin Avenue and Shepherd Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 769 | Opposing Demand Flow Rate, veh/h | 456 |
| Peak Hour Factor | 0.94 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.45 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.54543 | Speed Power Coefficient | 0.48814 |
| PF Slope Coefficient | -1.26258 | PF Power Coefficient | 0.79070 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 8.9 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 55.5 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 55.5 | Percent Followers, % | 64.2 |
| Segment Travel Time, minutes | 1.08 | Follower Density, followers/mi/ln | 8.9 |
| Vehicle LOS | D | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 8.9 | D |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Cumulative Year 2046 plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Minnewawa Avenue between Perrin Avenue and Shepherd Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 0.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 789 | Opposing Demand Flow Rate, veh/h | 520 |
| Peak Hour Factor | 0.88 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.46 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 58.4 |
| Speed Slope Coefficient | 3.56047 | Speed Power Coefficient | 0.47940 |
| PF Slope Coefficient | -1.26986 | PF Power Coefficient | 0.78779 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 9.3 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 55.4 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 55.4 | Percent Followers, % | 65.1 |
| Segment Travel Time, minutes | 1.08 | Follower Density, followers/mi/ln | 9.3 |
| Vehicle LOS | D | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 9.3 | D |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Cumulative Year 2046 plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Shepherd Avenue between Willow Avenue and Peach Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Constrained | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 50 | Access Point Density, pts/mi | 4.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 1184 | Opposing Demand Flow Rate, veh/h | - |
| Peak Hour Factor | 0.88 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.70 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 51.7 |
| Speed Slope Coefficient | 3.36232 | Speed Power Coefficient | 0.41674 |
| PF Slope Coefficient | -1.35765 | PF Power Coefficient | 0.73804 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 19.3 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 48.2 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 48.2 | Percent Followers, % | 78.5 |
| Segment Travel Time, minutes | 1.24 | Follower Density, followers/mi/ln | 19.3 |
| Vehicle LOS | E | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 19.3 | E |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Cumulative Year 2046 plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Shepherd Avenue between Willow Avenue and Peach Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Constrained | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 50 | Access Point Density, pts/mi | 4.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 1269 | Opposing Demand Flow Rate, veh/h | - |
| Peak Hour Factor | 0.88 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.75 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 51.7 |
| Speed Slope Coefficient | 3.36232 | Speed Power Coefficient | 0.41674 |
| PF Slope Coefficient | -1.35765 | PF Power Coefficient | 0.73804 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 21.2 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 48.1 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 48.1 | Percent Followers, % | 80.2 |
| Segment Travel Time, minutes | 1.25 | Follower Density, followers/mi/ln | 21.2 |
| Vehicle LOS | E | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 21.2 | E |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Cumulative Year 2046 plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Shepherd Avenue between Peach Avenue and Minnewawa Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Constrained | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 50 | Access Point Density, pts/mi | 4.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 1307 | Opposing Demand Flow Rate, veh/h | - |
| Peak Hour Factor | 0.89 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.77 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 51.7 |
| Speed Slope Coefficient | 3.36232 | Speed Power Coefficient | 0.41674 |
| PF Slope Coefficient | -1.35765 | PF Power Coefficient | 0.73804 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 22.0 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 48.1 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 48.1 | Percent Followers, % | 80.9 |
| Segment Travel Time, minutes | 1.25 | Follower Density, followers/mi/ln | 22.0 |
| Vehicle LOS | E | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 22.0 | E |

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# HCS7 Two-Lane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/8/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Cumulative Year 2046 plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Shepherd Avenue between Peach Avenue and Minnewawa Avenue | Units | U.S. Customary |

# Segment 1

## Vehicle Inputs

| | | | |
|---|---|---|---|
| Segment Type | Passing Constrained | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 50 | Access Point Density, pts/mi | 4.0 |

## Demand and Capacity

| | | | |
|---|---|---|---|
| Directional Demand Flow Rate, veh/h | 1530 | Opposing Demand Flow Rate, veh/h | - |
| Peak Hour Factor | 0.87 | Total Trucks, % | 3.00 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.90 |

## Intermediate Results

| | | | |
|---|---|---|---|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 51.7 |
| Speed Slope Coefficient | 3.36232 | Speed Power Coefficient | 0.41674 |
| PF Slope Coefficient | -1.35765 | PF Power Coefficient | 0.73804 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 27.0 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

## Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|---|---|---|---|---|
| 1 | Tangent | 5280 | - | - | 47.8 |

## Vehicle Results

| | | | |
|---|---|---|---|
| Average Speed, mi/h | 47.8 | Percent Followers, % | 84.4 |
| Segment Travel Time, minutes | 1.26 | Follower Density, followers/mi/ln | 27.0 |
| Vehicle LOS | E | | |

## Facility Results

| T | Follower Density, followers/mi/ln | LOS |
|---|---|---|
| 1 | 27.0 | E |

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# HCS7 Multilane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/10/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Cumulative Year 2046 plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Shepherd Avenue between Willow Avenue and Peach Avenue | Units | U.S. Customary |

## Direction 1 Geometric Data

| | | | |
|---|---|---|---|
| Direction 1 | Eastbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 4.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance ($LC_R$), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.0 | | |

## Direction 1 Adjustment Factors

| | | | |
|---|---|---|---|
| Driver Population | Mostly Familiar | Final Speed Adjustment Factor (SAF) | 0.975 |
| Driver Population SAF | 0.975 | Final Capacity Adjustment Factor (CAF) | 0.968 |
| Driver Population CAF | 0.968 | | |

## Direction 1 Demand and Capacity

| | | | |
|---|---|---|---|
| Volume(V) veh/h | 1117 | Heavy Vehicle Adjustment Factor ($f_{HV}$) | 0.971 |
| Peak Hour Factor | 0.88 | Flow Rate ($V_p$), pc/h/ln | 654 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 2052 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity ($c_{adj}$), pc/h/ln | 1986 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.33 |

## Direction 1 Speed and Density

| | | | |
|---|---|---|---|
| Lane Width Adjustment ($f_{LW}$) | 0.0 | Average Speed (S), mi/h | 52.6 |
| Total Lateral Clearance Adj. ($f_{LLC}$) | 0.0 | Density (D ), pc/mi/ln | 12.4 |
| Median Type Adjustment ($f_M$) | 0.0 | Level of Service (LOS) | B |
| Access Point Density Adjustment ($f_A$) | 1.0 | | |

## Direction 1 Bicycle LOS

| | | | |
|---|---|---|---|
| Flow Rate in Outside Lane ($v_{OL}$),veh/h | 635 | Effective Speed Factor ($S_t$) | 4.62 |
| Effective Width of Volume ($W_v$), ft | 18 | Bicyle LOS Score (BLOS) | 3.18 |
| Average Effective Width ($W_e$), ft | 24 | Bicycle Level of Service (LOS) | C |

## Direction 2 Geometric Data

| | | | |
|---|---|---|---|
| Direction 2 | Westbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 4.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance ($LC_R$), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.0 | | |

## Direction 2 Adjustment Factors

| | | | |
|---|---|---|---|
| Driver Population | Mostly Familiar | Final Speed Adjustment Factor (SAF) | 0.975 |
| Driver Population SAF | 0.975 | Final Capacity Adjustment Factor (CAF) | 0.968 |
| Driver Population CAF | 0.968 | | |

## Direction 2 Demand and Capacity

| | | | |
|---|---|---|---|
| Volume(V) veh/h | 1042 | Heavy Vehicle Adjustment Factor ($f_{HV}$) | 0.971 |
| Peak Hour Factor | 0.88 | Flow Rate ($V_p$), pc/h/ln | 610 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 2052 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity ($c_{adj}$), pc/h/ln | 1986 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.31 |

## Direction 2 Speed and Density

| | | | |
|---|---|---|---|
| Lane Width Adjustment ($f_{LW}$) | 0.0 | Average Speed (S), mi/h | 52.6 |
| Total Lateral Clearance Adj. ($f_{LLC}$) | 0.0 | Density (D ), pc/mi/ln | 11.6 |
| Median Type Adjustment ($f_M$) | 0.0 | Level of Service (LOS) | B |
| Access Point Density Adjustment ($f_A$) | 1.0 | | |

## Direction 2 Bicycle LOS

| | | | |
|---|---|---|---|
| Flow Rate in Outside Lane ($v_{OL}$),veh/h | 635 | Effective Speed Factor ($S_t$) | 4.62 |
| Effective Width of Volume ($W_v$), ft | 18 | Bicyle LOS Score (BLOS) | 3.18 |
| Average Effective Width ($W_e$), ft | 24 | Bicycle Level of Service (LOS) | C |

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# HCS7 Multilane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/10/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Cumulative Year 2046 plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Shepherd Avenue between Willow Avenue and Peach Avenue | Units | U.S. Customary |

## Direction 1 Geometric Data

| | | | |
|---|---|---|---|
| Direction 1 | Eastbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 4.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance ($LC_R$), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.0 | | |

## Direction 1 Adjustment Factors

| | | | |
|---|---|---|---|
| Driver Population | Mostly Familiar | Final Speed Adjustment Factor (SAF) | 0.975 |
| Driver Population SAF | 0.975 | Final Capacity Adjustment Factor (CAF) | 0.968 |
| Driver Population CAF | 0.968 | | |

## Direction 1 Demand and Capacity

| | | | |
|---|---|---|---|
| Volume(V) veh/h | 1340 | Heavy Vehicle Adjustment Factor ($f_{HV}$) | 0.971 |
| Peak Hour Factor | 0.88 | Flow Rate ($V_p$), pc/h/ln | 784 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 2052 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity ($c_{adj}$), pc/h/ln | 1986 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.39 |

## Direction 1 Speed and Density

| | | | |
|---|---|---|---|
| Lane Width Adjustment ($f_{LW}$) | 0.0 | Average Speed (S), mi/h | 52.6 |
| Total Lateral Clearance Adj. ($f_{LLC}$) | 0.0 | Density (D ), pc/mi/ln | 14.9 |
| Median Type Adjustment ($f_M$) | 0.0 | Level of Service (LOS) | B |
| Access Point Density Adjustment ($f_A$) | 1.0 | | |

## Direction 1 Bicycle LOS

| | | | |
|---|---|---|---|
| Flow Rate in Outside Lane ($v_{OL}$),veh/h | 761 | Effective Speed Factor ($S_t$) | 4.62 |
| Effective Width of Volume ($W_v$), ft | 18 | Bicyle LOS Score (BLOS) | 3.27 |
| Average Effective Width ($W_e$), ft | 24 | Bicycle Level of Service (LOS) | C |

## Direction 2 Geometric Data

| | | | |
|---|---|---|---|
| Direction 2 | Westbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 4.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance ($LC_R$), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.0 | | |

## Direction 2 Adjustment Factors

| | | | |
|---|---|---|---|
| Driver Population | Mostly Familiar | Final Speed Adjustment Factor (SAF) | 0.975 |
| Driver Population SAF | 0.975 | Final Capacity Adjustment Factor (CAF) | 0.968 |
| Driver Population CAF | 0.968 | | |

## Direction 2 Demand and Capacity

| | | | |
|---|---|---|---|
| Volume(V) veh/h | 1117 | Heavy Vehicle Adjustment Factor ($f_{HV}$) | 0.971 |
| Peak Hour Factor | 0.88 | Flow Rate ($V_p$), pc/h/ln | 654 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 2052 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity ($c_{adj}$), pc/h/ln | 1986 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.33 |

## Direction 2 Speed and Density

| | | | |
|---|---|---|---|
| Lane Width Adjustment ($f_{LW}$) | 0.0 | Average Speed (S), mi/h | 52.6 |
| Total Lateral Clearance Adj. ($f_{LLC}$) | 0.0 | Density (D ), pc/mi/ln | 12.4 |
| Median Type Adjustment ($f_M$) | 0.0 | Level of Service (LOS) | B |
| Access Point Density Adjustment ($f_A$) | 1.0 | | |

## Direction 2 Bicycle LOS

| | | | |
|---|---|---|---|
| Flow Rate in Outside Lane ($v_{OL}$),veh/h | 761 | Effective Speed Factor ($S_t$) | 4.62 |
| Effective Width of Volume ($W_v$), ft | 18 | Bicyle LOS Score (BLOS) | 3.27 |
| Average Effective Width ($W_e$), ft | 24 | Bicycle Level of Service (LOS) | C |

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# HCS7 Multilane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/10/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Cumulative Year 2046 plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | AM Peak |
| Project Description | Shepherd Avenue between Peach Avenue and Minnewawa Avenue | Units | U.S. Customary |

## Direction 1 Geometric Data

| | | | |
|---|---|---|---|
| Direction 1 | Eastbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 4.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance ($LC_R$), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.0 | | |

## Direction 1 Adjustment Factors

| | | | |
|---|---|---|---|
| Driver Population | Mostly Familiar | Final Speed Adjustment Factor (SAF) | 0.975 |
| Driver Population SAF | 0.975 | Final Capacity Adjustment Factor (CAF) | 0.968 |
| Driver Population CAF | 0.968 | | |

## Direction 1 Demand and Capacity

| | | | |
|---|---|---|---|
| Volume(V) veh/h | 1159 | Heavy Vehicle Adjustment Factor ($f_{HV}$) | 0.971 |
| Peak Hour Factor | 0.89 | Flow Rate ($V_p$), pc/h/ln | 670 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 2052 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity ($c_{adj}$), pc/h/ln | 1986 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.34 |

## Direction 1 Speed and Density

| | | | |
|---|---|---|---|
| Lane Width Adjustment ($f_{LW}$) | 0.0 | Average Speed (S), mi/h | 52.6 |
| Total Lateral Clearance Adj. ($f_{LLC}$) | 0.0 | Density (D ), pc/mi/ln | 12.7 |
| Median Type Adjustment ($f_M$) | 0.0 | Level of Service (LOS) | B |
| Access Point Density Adjustment ($f_A$) | 1.0 | | |

## Direction 1 Bicycle LOS

| | | | |
|---|---|---|---|
| Flow Rate in Outside Lane ($v_{OL}$),veh/h | 651 | Effective Speed Factor ($S_t$) | 4.62 |
| Effective Width of Volume ($W_v$), ft | 18 | Bicyle LOS Score (BLOS) | 3.19 |
| Average Effective Width ($W_e$), ft | 24 | Bicycle Level of Service (LOS) | C |

| Direction 2 Geometric Data | | | |
|---|---|---|---|
| Direction 2 | Westbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 4.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance ($LC_R$), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.0 | | |

| Direction 2 Adjustment Factors | | | |
|---|---|---|---|
| Driver Population | Mostly Familiar | Final Speed Adjustment Factor (SAF) | 0.975 |
| Driver Population SAF | 0.975 | Final Capacity Adjustment Factor (CAF) | 0.968 |
| Driver Population CAF | 0.968 | | |

| Direction 2 Demand and Capacity | | | |
|---|---|---|---|
| Volume(V) veh/h | 1163 | Heavy Vehicle Adjustment Factor ($f_{HV}$) | 0.971 |
| Peak Hour Factor | 0.89 | Flow Rate ($V_p$), pc/h/ln | 673 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 2052 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity ($c_{adj}$), pc/h/ln | 1986 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.34 |

| Direction 2 Speed and Density | | | |
|---|---|---|---|
| Lane Width Adjustment ($f_{LW}$) | 0.0 | Average Speed (S), mi/h | 52.6 |
| Total Lateral Clearance Adj. ($f_{LLC}$) | 0.0 | Density (D ), pc/mi/ln | 12.8 |
| Median Type Adjustment ($f_M$) | 0.0 | Level of Service (LOS) | B |
| Access Point Density Adjustment ($f_A$) | 1.0 | | |

| Direction 2 Bicycle LOS | | | |
|---|---|---|---|
| Flow Rate in Outside Lane ($v_{OL}$),veh/h | 651 | Effective Speed Factor ($S_t$) | 4.62 |
| Effective Width of Volume ($W_v$), ft | 18 | Bicyle LOS Score (BLOS) | 3.19 |
| Average Effective Width ($W_e$), ft | 24 | Bicycle Level of Service (LOS) | C |

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# HCS7 Multilane Highway Report



## Project Information

| | | | |
|---|---|---|---|
| Analyst | JLB Traffic Engineering, Inc. | Date | 4/10/2024 |
| Agency | JLB Traffic Engineering, Inc. | Analysis Year | Cumulative Year 2046 plus Project Traffic Conditions |
| Jurisdiction | City of Clovis | Time Analyzed | PM Peak |
| Project Description | Shepherd Avenue between Peach Avenue and Minnewawa Avenue | Units | U.S. Customary |

## Direction 1 Geometric Data

| | | | |
|---|---|---|---|
| Direction 1 | Eastbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 4.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance ($LC_R$), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.0 | | |

## Direction 1 Adjustment Factors

| | | | |
|---|---|---|---|
| Driver Population | Mostly Familiar | Final Speed Adjustment Factor (SAF) | 0.975 |
| Driver Population SAF | 0.975 | Final Capacity Adjustment Factor (CAF) | 0.968 |
| Driver Population CAF | 0.968 | | |

## Direction 1 Demand and Capacity

| | | | |
|---|---|---|---|
| Volume(V) veh/h | 1195 | Heavy Vehicle Adjustment Factor ($f_{HV}$) | 0.971 |
| Peak Hour Factor | 0.87 | Flow Rate ($V_p$), pc/h/ln | 708 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 2052 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity ($c_{adj}$), pc/h/ln | 1986 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.36 |

## Direction 1 Speed and Density

| | | | |
|---|---|---|---|
| Lane Width Adjustment ($f_{LW}$) | 0.0 | Average Speed (S), mi/h | 52.6 |
| Total Lateral Clearance Adj. ($f_{LLC}$) | 0.0 | Density (D ), pc/mi/ln | 13.5 |
| Median Type Adjustment ($f_M$) | 0.0 | Level of Service (LOS) | B |
| Access Point Density Adjustment ($f_A$) | 1.0 | | |

## Direction 1 Bicycle LOS

| | | | |
|---|---|---|---|
| Flow Rate in Outside Lane ($v_{OL}$),veh/h | 687 | Effective Speed Factor ($S_t$) | 4.62 |
| Effective Width of Volume ($W_v$), ft | 18 | Bicyle LOS Score (BLOS) | 3.22 |
| Average Effective Width ($W_e$), ft | 24 | Bicycle Level of Service (LOS) | C |

| Direction 2 Geometric Data | | | |
|---|---|---|---|
| Direction 2 | Westbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 4.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance ($LC_R$), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.0 | | |

| Direction 2 Adjustment Factors | | | |
|---|---|---|---|
| Driver Population | Mostly Familiar | Final Speed Adjustment Factor (SAF) | 0.975 |
| Driver Population SAF | 0.975 | Final Capacity Adjustment Factor (CAF) | 0.968 |
| Driver Population CAF | 0.968 | | |

| Direction 2 Demand and Capacity | | | |
|---|---|---|---|
| Volume(V) veh/h | 1331 | Heavy Vehicle Adjustment Factor ($f_{HV}$) | 0.971 |
| Peak Hour Factor | 0.87 | Flow Rate ($V_p$), pc/h/ln | 788 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 2052 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity ($c_{adj}$), pc/h/ln | 1986 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.40 |

| Direction 2 Speed and Density | | | |
|---|---|---|---|
| Lane Width Adjustment ($f_{LW}$) | 0.0 | Average Speed (S), mi/h | 52.6 |
| Total Lateral Clearance Adj. ($f_{LLC}$) | 0.0 | Density (D ), pc/mi/ln | 15.0 |
| Median Type Adjustment ($f_M$) | 0.0 | Level of Service (LOS) | B |
| Access Point Density Adjustment ($f_A$) | 1.0 | | |

| Direction 2 Bicycle LOS | | | |
|---|---|---|---|
| Flow Rate in Outside Lane ($v_{OL}$),veh/h | 687 | Effective Speed Factor ($S_t$) | 4.62 |
| Effective Width of Volume ($W_v$), ft | 18 | Bicyle LOS Score (BLOS) | 3.22 |
| Average Effective Width ($W_e$), ft | 24 | Bicycle Level of Service (LOS) | C |

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# Appendix I: Traffic Signal Warrants

# Warrant 3: Peak Hour (Rural)

**Existing Traffic Conditions**

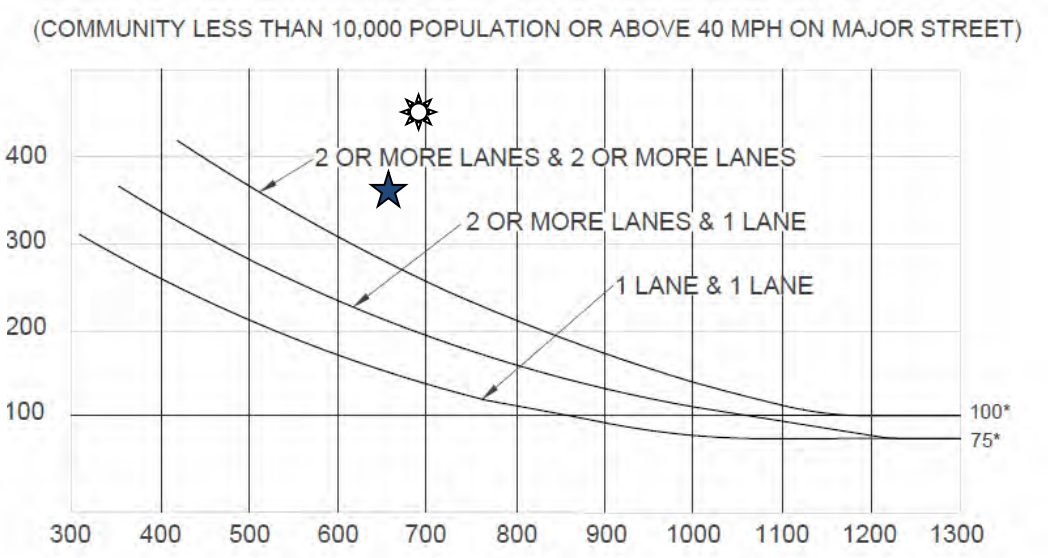
**1. Minnewawa Avenue / Behymer Avenue**

**AM (PM) Peak Hour**

**Behymer Avenue**

**Highest Approach Volume =**

**447 (367) VPH**




**Minnewawa Avenue Total of Both Approaches =**

**690 (658) VPH**

*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor street approach with one lane.

**AM Peak Hour – Signal Warrant is Met**

**PM Peak Hour – Signal Warrant is Met**

Source: California Manual of Uniform Traffic Control Devices (CA MUTCD 2014 Edition)
Chapter 4C: Traffic Control Signal Needs Studies
Part 4: Highway Traffic Signals
November 7, 2014

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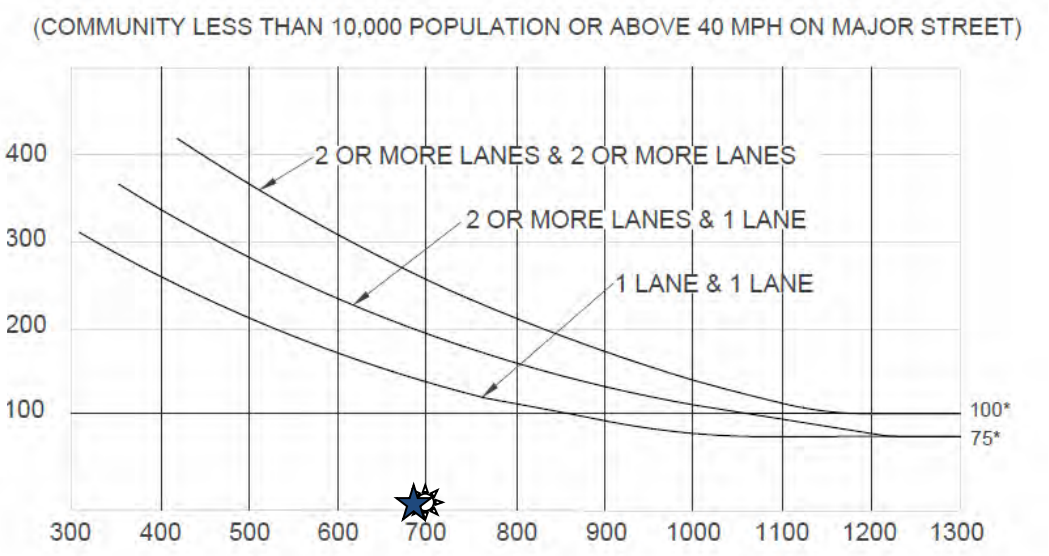
(559) 570-8991

# Warrant 3: Peak Hour (Rural)

**Existing Traffic Conditions**
**2. Minnewawa Avenue / Perrin Avenue**
**AM (PM) Peak Hour**

**Perrin Avenue**
**Highest Approach Volume =**
**8 (12) VPH**




**Minnewawa Avenue Total of Both Approaches =**

**697 (694) VPH**

*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor street approach with one lane.

**AM Peak Hour – Signal Warrant is Not Met**

**PM Peak Hour – Signal Warrant is Not Met**

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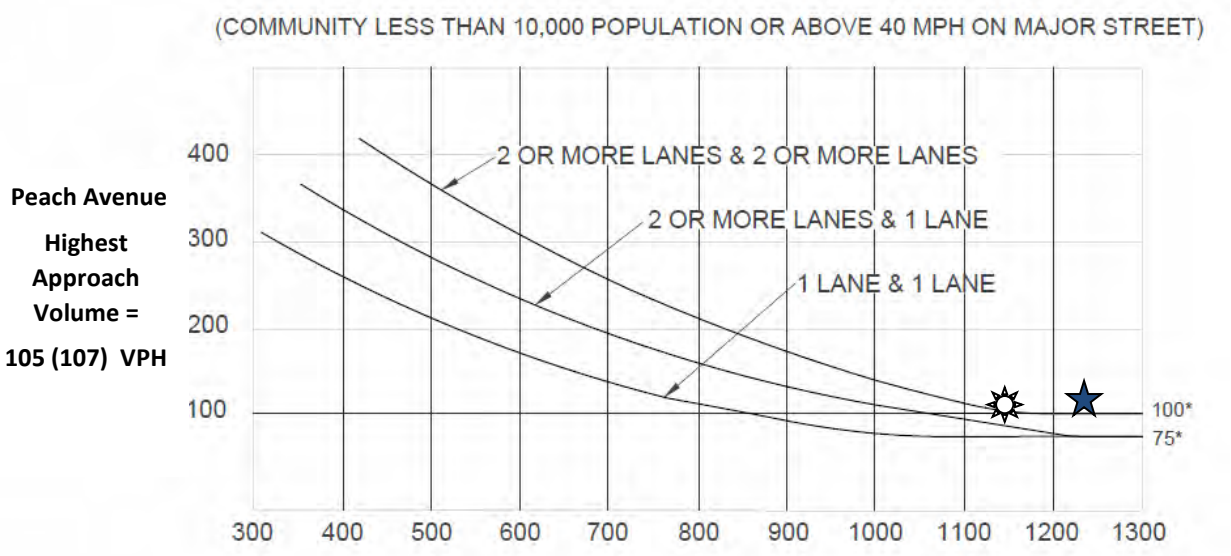
# Warrant 3: Peak Hour (Rural)

**Existing Traffic Conditions**
**5. Peach Avenue / Shepherd Avenue**
**AM (PM) Peak Hour**




**Shepherd Avenue Total of Both Approaches =**

**1142 (1236) VPH**

*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor street approach with one lane.

**AM Peak Hour – Signal Warrant is Met**

**PM Peak Hour – Signal Warrant is Met**

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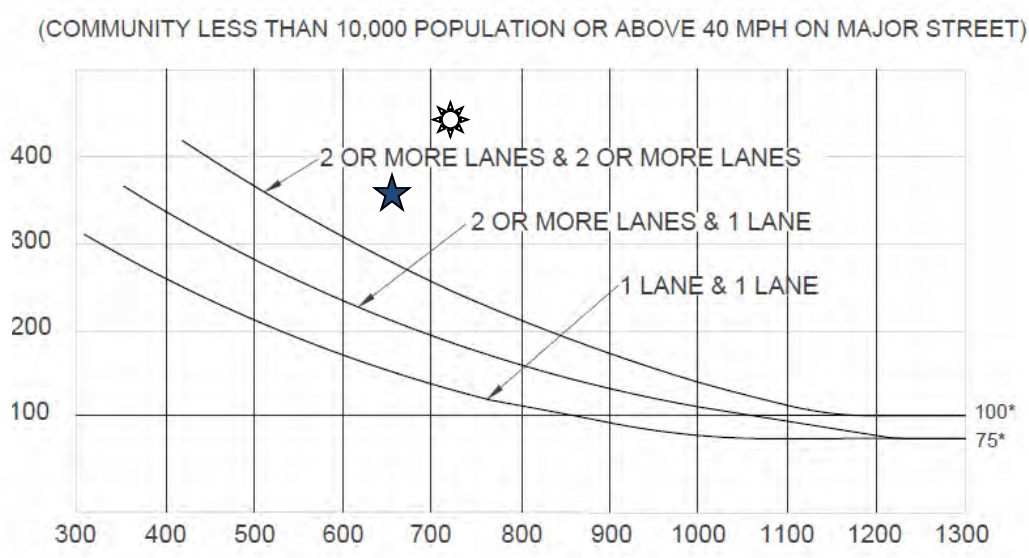
# Warrant 3: Peak Hour (Rural)

**Existing plus Project Traffic Conditions**
**1. Minnewawa Avenue / Behymer Avenue**
**AM (PM) Peak Hour**

**Behymer Avenue Highest Approach Volume = 447 (367) VPH**




**Minnewawa Avenue Total of Both Approaches =**

**710 (664) VPH**

*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor street approach with one lane.

**AM Peak Hour – Signal Warrant is Met**

**PM Peak Hour – Signal Warrant is Met**

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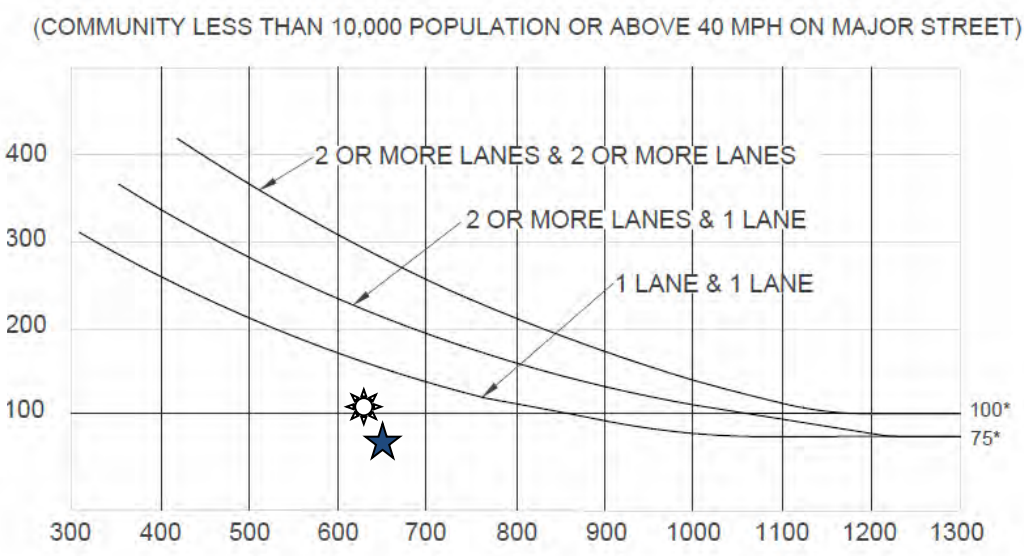
# Warrant 3: Peak Hour (Rural)

**Existing plus Project Traffic Conditions**
**2. Minnewawa Avenue / Perrin Avenue**
**AM (PM) Peak Hour**

**Perrin Avenue Highest Approach Volume = 104 (84) VPH**




**Minnewawa Avenue Total of Both Approaches = 632 (652) VPH**

*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor street approach with one lane.

**AM Peak Hour – Signal Warrant is Not Met**
**PM Peak Hour – Signal Warrant is Not Met**

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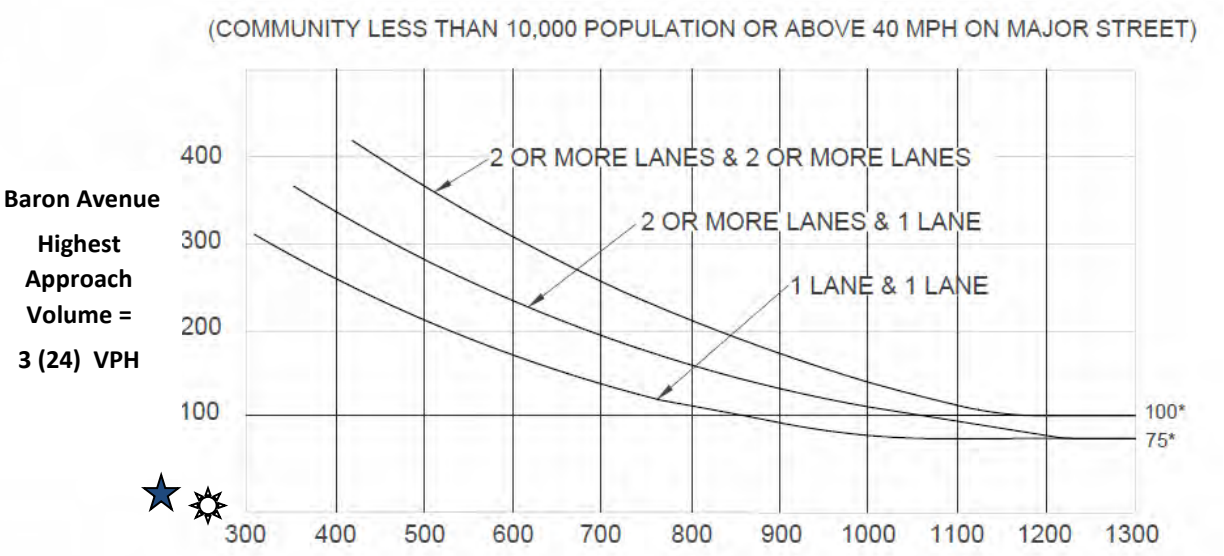
# Warrant 3: Peak Hour (Rural)

**Existing plus Project Traffic Conditions**
**4. Clovis Avenue / Baron Avenue**
**AM (PM) Peak Hour**




**Clovis Avenue Total of Both Approaches =**

**246 (169) VPH**

*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor street approach with one lane.

**AM Peak Hour – Signal Warrant is Not Met**

**PM Peak Hour – Signal Warrant is Not Met**

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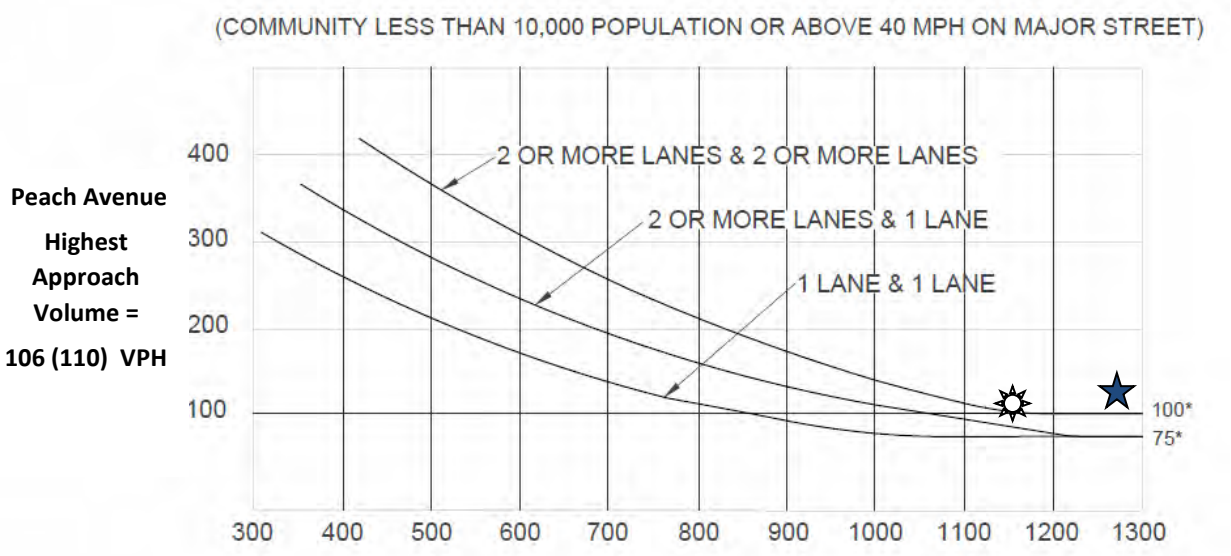
# Warrant 3: Peak Hour (Rural)

**Existing plus Project Traffic Conditions**
**5. Peach Avenue / Shepherd Avenue**
**AM (PM) Peak Hour**




**Peach Avenue Highest Approach Volume = 106 (110) VPH**

**Shepherd Avenue Total of Both Approaches = 1163 (1270) VPH**

*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor street approach with one lane.

**AM Peak Hour – Signal Warrant is Met**

**PM Peak Hour – Signal Warrant is Met**

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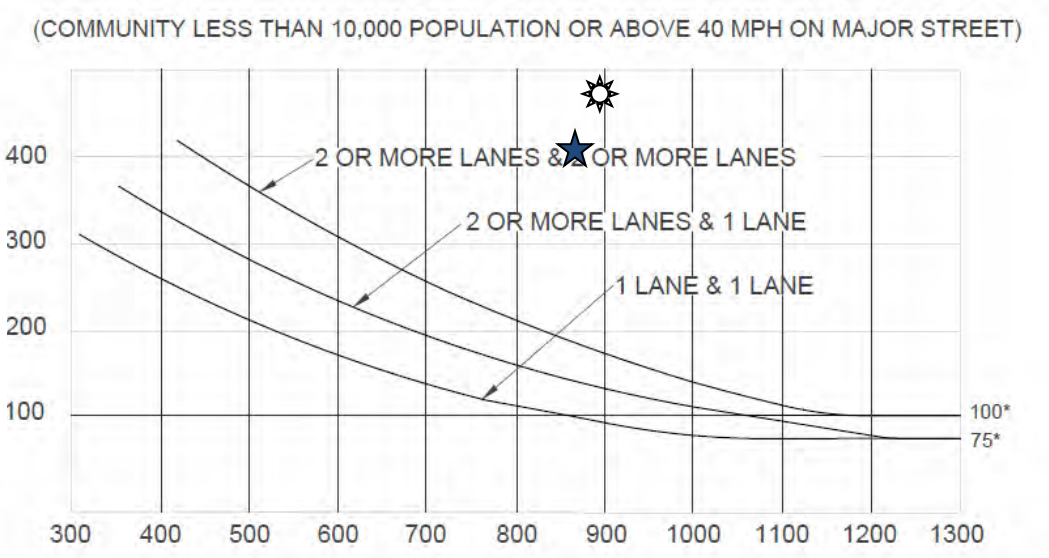
# Warrant 3: Peak Hour (Rural)

**Near Term plus Project Traffic Conditions**
**1. Minnewawa Avenue / Behymer Avenue**
**AM (PM) Peak Hour**

**Behymer Avenue Highest Approach Volume = 484 (403) VPH**




**Minnewawa Avenue Total of Both Approaches =**

**894 (867) VPH**

*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor street approach with one lane.

**AM Peak Hour – Signal Warrant is Met**

**PM Peak Hour – Signal Warrant is Met**

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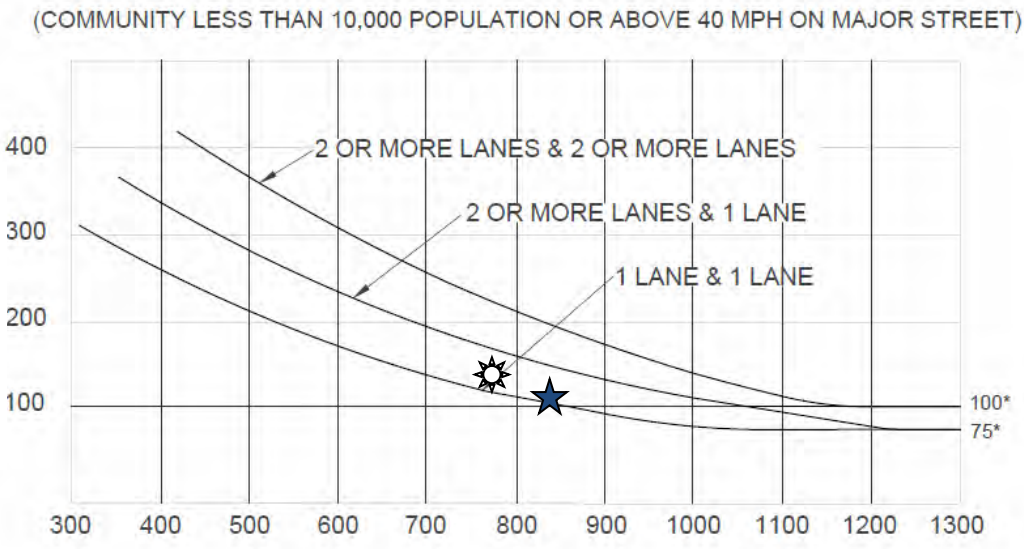
# Warrant 3: Peak Hour (Rural)

**Near Term plus Project Traffic Conditions**
**2. Minnewawa Avenue / Perrin Avenue**
**AM (PM) Peak Hour**

**Perrin Avenue Highest Approach Volume = 143 (112) VPH**




**Minnewawa Avenue Total of Both Approaches =**

**780 (830) VPH**

*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor street approach with one lane.

**AM Peak Hour – Signal Warrant is Met**

**PM Peak Hour – Signal Warrant is Met**

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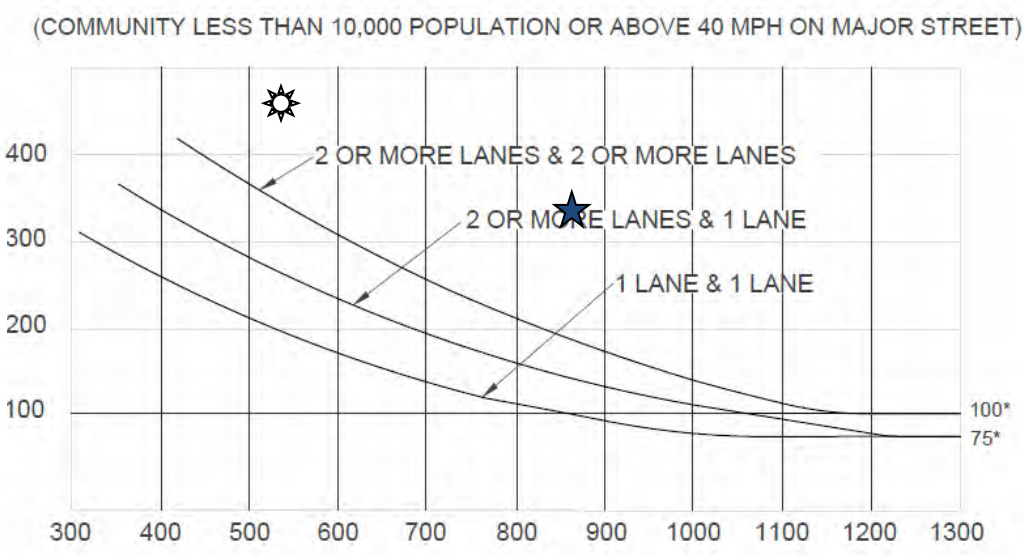
# Warrant 3: Peak Hour (Rural)

**Near Term plus Project Traffic Conditions**
**4. Clovis Avenue / Baron Avenue**
**AM (PM) Peak Hour**

**Baron Avenue Highest Approach Volume = 465 (333) VPH**




**Clovis Avenue Total of Both Approaches = 544 (859) VPH**

*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor street approach with one lane.

**AM Peak Hour – Signal Warrant is Met**

**PM Peak Hour – Signal Warrant is Met**

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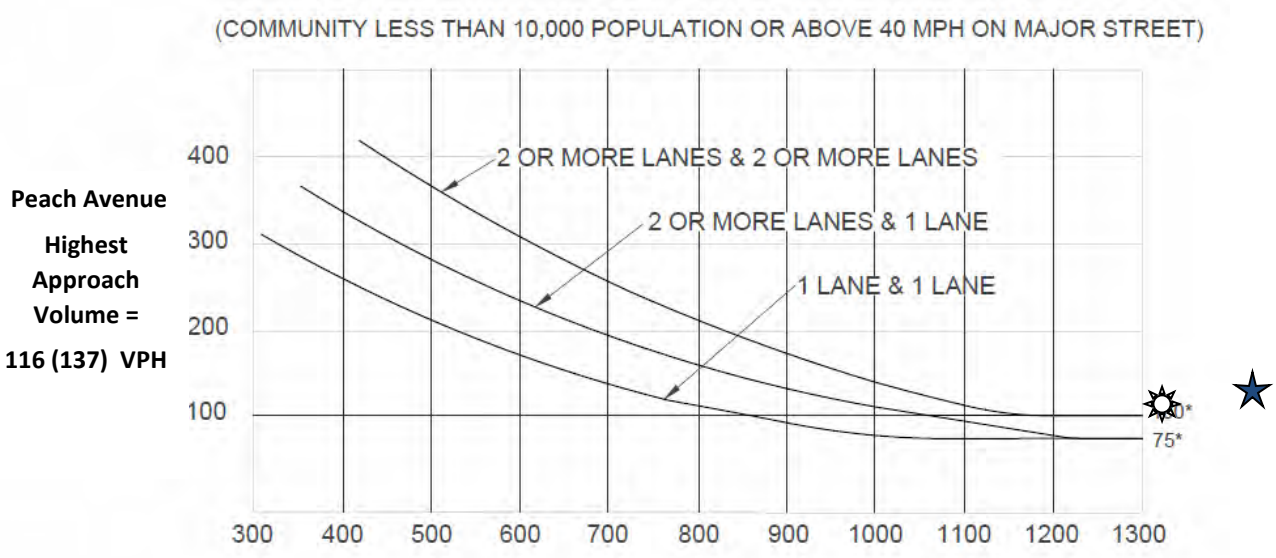
# Warrant 3: Peak Hour (Rural)

**Near Term plus Project Traffic Conditions**
**5. Peach Avenue / Shepherd Avenue**
**AM (PM) Peak Hour**




**Peach Avenue Highest Approach Volume = 116 (137) VPH**

**Shepherd Avenue Total of Both Approaches = 1990 (2356) VPH**

*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor street approach with one lane.

**AM Peak Hour – Signal Warrant is Met**

**PM Peak Hour – Signal Warrant is Met**

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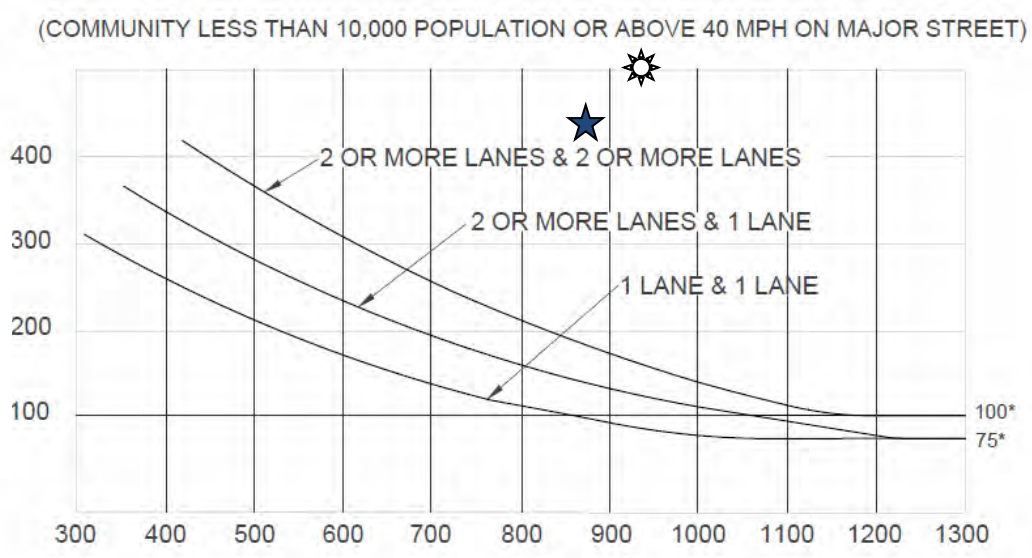
# Warrant 3: Peak Hour (Rural)

**Cumulative Year 2046 plus Project Traffic Conditions**
**1. Minnewawa Avenue / Behymer Avenue**
**AM (PM) Peak Hour**

**Behymer Avenue Highest Approach Volume = 576 (430) VPH**




**Minnewawa Avenue Total of Both Approaches =**

**923 (881) VPH**

*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor street approach with one lane.

**AM Peak Hour – Signal Warrant is Met**

**PM Peak Hour – Signal Warrant is Met**

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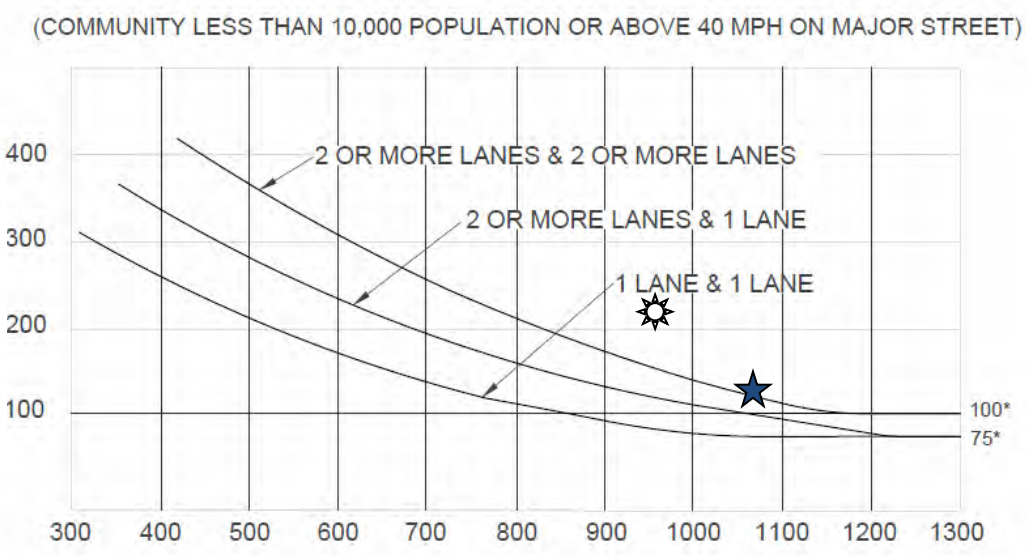
# Warrant 3: Peak Hour (Rural)

**Cumulative Year 2046 plus Project Traffic Conditions**
**2. Minnewawa Avenue / Perrin Avenue**
**AM (PM) Peak Hour**

**Perrin Avenue Highest Approach Volume = 212 (138) VPH**




**Minnewawa Avenue Total of Both Approaches =**

**962 (1065) VPH**

*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor street approach with one lane.

**AM Peak Hour – Signal Warrant is Met**

**PM Peak Hour – Signal Warrant is Met**

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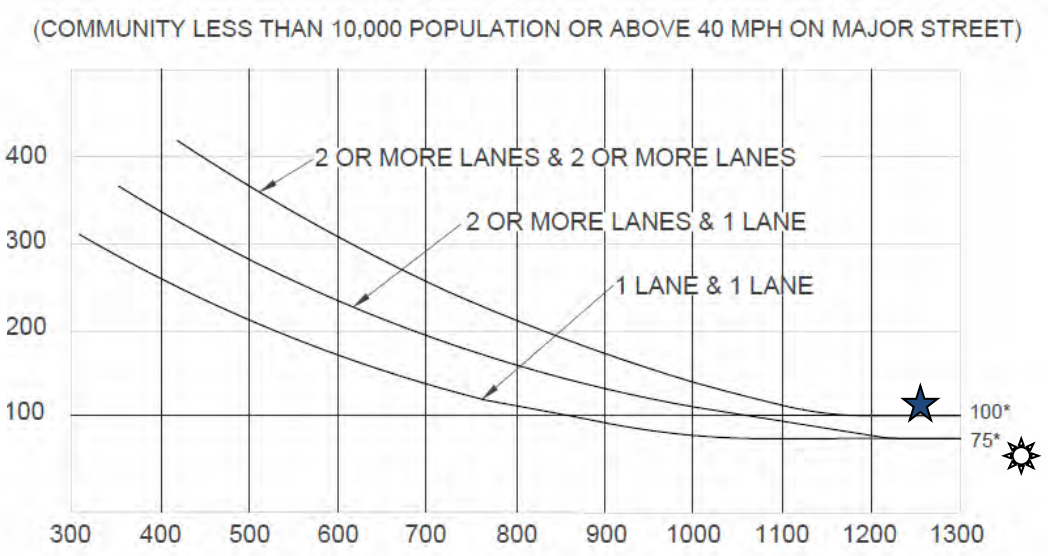
# Warrant 3: Peak Hour (Rural)

**Cumulative Year 2046 plus Project Traffic Conditions**
**3. Clovis Avenue / Perrin Avenue**
**AM (PM) Peak Hour**

**Perrin Avenue Highest Approach Volume = 66 (107) VPH**




**Clovis Avenue Total of Both Approaches =**

**1351 (1254) VPH**

*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor street approach with one lane.

**AM Peak Hour – Signal Warrant is Not Met**

**PM Peak Hour – Signal Warrant is Met**

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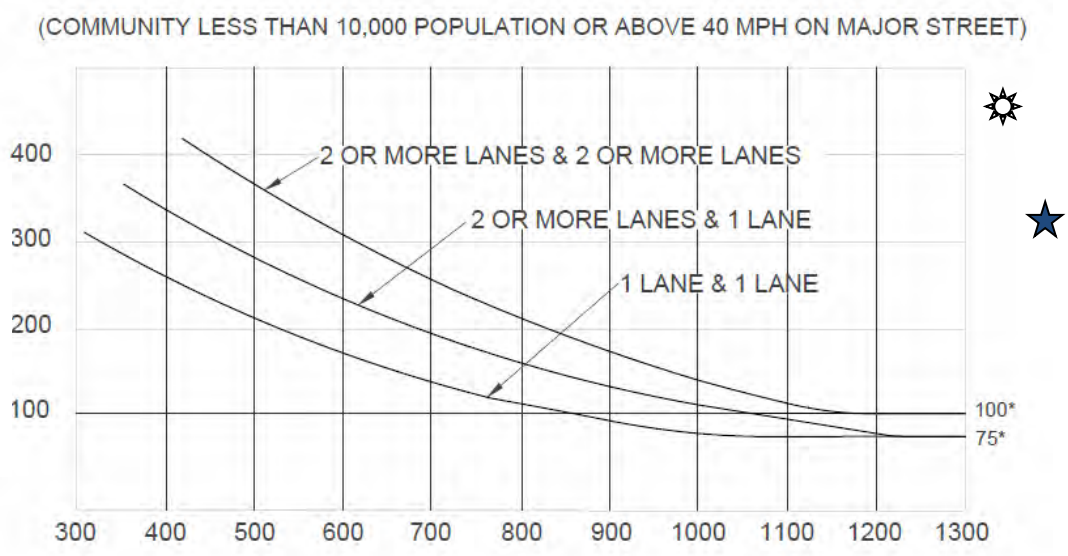
# Warrant 3: Peak Hour (Rural)

**Cumulative Year 2046 plus Project Traffic Conditions**
**4. Clovis Avenue / Baron Avenue**
**AM (PM) Peak Hour**

**Baron Avenue Highest Approach Volume = 465 (333) VPH**




**Clovis Avenue Total of Both Approaches =**

**1589 (1790) VPH**

*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor street approach with one lane.

**AM Peak Hour – Signal Warrant is Met**

**PM Peak Hour – Signal Warrant is Met**

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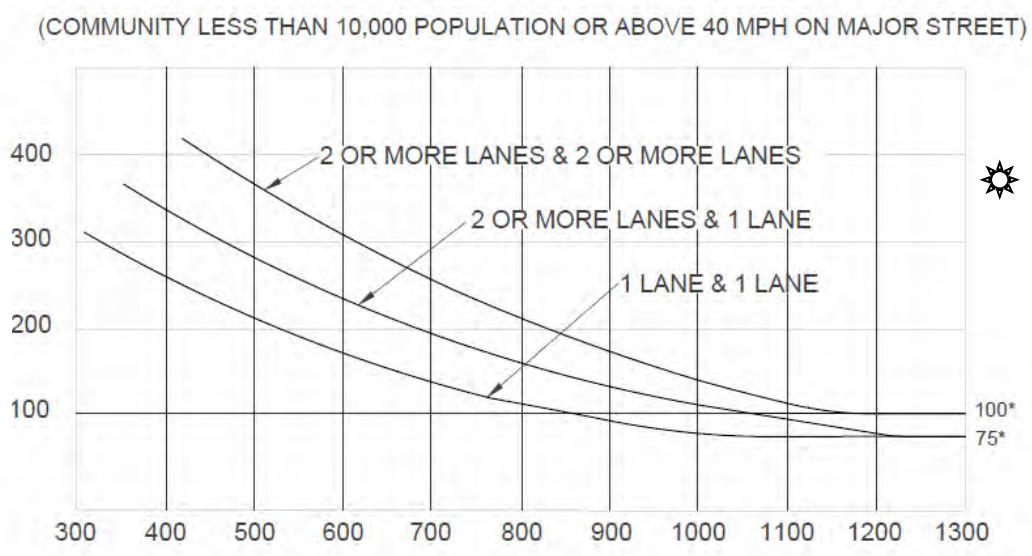
# Warrant 3: Peak Hour (Rural)

**Cumulative Year 2046 plus Project Traffic Conditions**
**5. Peach Avenue / Shepherd Avenue**
**AM (PM) Peak Hour**

**Peach Avenue Highest Approach Volume = 367 (227) VPH**




**Shepherd Avenue Total of Both Approaches =**

**2227 (2583) VPH**

*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor street approach with one lane.

**AM Peak Hour – Signal Warrant is Met**

**PM Peak Hour – Signal Warrant is Met**

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# Vehicle Miles Traveled Analysis

## Clovis and Perrin Subdivision

**Located on the Southwest Corner of Clovis Avenue and Perrin Avenue**

**In the City of Clovis, California**

***Prepared for***

Bonadelle Neighborhoods
7030 N. Fruit Avenue, Suite 101
Fresno, CA 93711

April 19, 2024

Project No. 006-049

***Traffic Engineering, Transportation Planning, & Parking Solutions***
516 W. Shaw Ave., Ste. 103
Fresno, CA 93710
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# Vehicle Miles Traveled Analysis

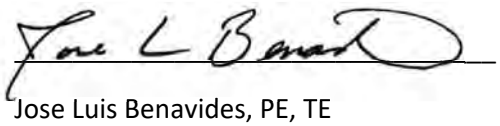
## For Clovis and Perrin Development located on the Southwest Corner of Clovis Avenue and Perrin Avenue

In the City of Clovis, California

April 19, 2024

This Vehicle Miles Traveled Analysis Report has been prepared under the direction of a licensed Traffic Engineer. The licensed Traffic Engineer attests to the technical information contained therein and has judged the qualifications of any technical specialists providing engineering data from which recommendations, conclusions and decisions are based.

Prepared by:



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# Project Description

This report describes a **Vehicle Miles Traveled Analysis (VMT) Analysis** prepared **by JLB Traffic Engineering, Inc. (JLB)** for the **Clovis and Perrin Development (Project)** located on the Southwest Corner of Clovis Avenue and Perrin Avenue in the City of Clovis. The Project proposes to develop the site with 162 single family residential units. Based on information provided to JLB, the Project is consistent with the City of Clovis *General Plan*. A Project Site Plan is shown in Exhibit A.

# VMT Analysis

## Regulatory Setting

Senate Bill (SB) 743 requires that relevant California Environmental Quality Act (CEQA) analysis of transportation impacts be conducted using a metric known as VMT instead of level of service (LOS). VMT measures how much actual auto travel (additional miles driven) a proposed project would create on California roads. If the project adds excessive car travel onto our roads, the project may cause a significant transportation impact.

The State CEQA Guidelines were amended to implement SB 743, by adding Section 15064.3. Among its provisions, Section 15064.3 confirms that, except with respect to transportation projects, a project's effect on automobile delay shall not constitute a significant environmental impact. Therefore, LOS measures of impacts on traffic facilities are no longer a relevant CEQA criteria for transportation impacts.

CEQA Guidelines Section 15064.3(b)(4) states that "[a] lead agency has discretion to choose the most appropriate methodology to evaluate a project's vehicle miles traveled, including whether to express the change in absolute terms, per capita, per household or in any other measure. A lead agency may use models to estimate a project's vehicle miles traveled and may revise those estimates to reflect professional judgment based on substantial evidence. Any assumptions used to estimate vehicle miles traveled and any revision to model outputs should be documented and explained in the environmental document prepared for the project. The standard of adequacy in Section 15151 shall apply to the analysis described in this section."

On October 17, 2022, the City of Clovis adopted the *Transportation Impact Analysis Guidelines* for VMT pursuant to Senate Bill 743 which was effective on July 1, 2020. The City of Clovis *Transportation Impact Analysis Guidelines* document was prepared and adopted consistent with the requirements of CEQA Guidelines Sections 15064.3 and 15064.7. The December 2018 Technical Advisory on Evaluating Transportation Impacts in CEQA (TA) published by the Governor's Office of Planning and Research (OPR), was utilized as a reference and guidance document in the preparation of the Clovis VMT thresholds.

The City of Clovis *Transportation Impact Analysis Guidelines* adopted a screening standard and criteria that can be used to screen out qualified development projects that meet the adopted criteria from needing to prepare a detailed VMT Analysis. These criteria may be size, location, proximity to transit, of trip making potential. In general, development projects that are consistent with the City of Clovis' General Plan and Zoning that meet one or more of the following criteria can be screened out from a quantitative VMT analysis.

1. Project Located in a Transit Priority Area/High Quality Transit Corridor (within 0.5 miles of a transit stop).
2. Project is Local-serving Retail of less than 100,000 square feet.
3. Project is a Low Trip Generator (Less than 500 average daily trips)
4. Project is 100% Affordable Housing Units
5. Project is located in a Low VMT Zone

This screening tool is consistent with the OPR December 2018 Guidance referenced above. The screening tool includes an analysis of those portions of the City that satisfy the standard of reducing VMT by 13% from existing per capita and per employee VMT averages within the relevant region. The relevant region adopted by the City of Clovis *Transportation Impact Analysis Guidelines* is Fresno County. The City of Clovis *Transportation Impact Analysis Guidelines* Section 2.1.1.6. regarding project screening states that "… projects that are inconsistent with the RTP/SCS would not qualify for screening out of a detailed VMT analysis".

For projects that are not screened out, a quantitative analysis of VMT impacts must be prepared and compared against the adopted VMT thresholds of significance. The City of Clovis *Transportation Impact Analysis Guidelines* document includes thresholds of significance for development projects, transportation projects, and land use plans. These thresholds of significance were developed using the County of Fresno as the applicable region, and the required reduction of VMT (as adopted in the Clovis VMT Thresholds) corresponds to Fresno County's contribution to the statewide GHG emission reduction target. In order to reach the statewide GHG reduction target of 15%, Fresno County must reduce its GHG emissions by 13%. The method of reducing GHG by 13% is to reduce VMT by 13% as well.

VMT is simply the product of a number of trips and those trips' lengths. The first step in a VMT analysis is to establish the baseline average VMT, which requires the definition of a region. The City of Clovis *Transportation Impact Analysis Guidelines* provide that the Fresno County average VMT per Capita (appropriate for residential land uses) and Employee (appropriate for office/commercial non-retail land uses) are 16.1 and 25.6, respectively. The City's threshold targets a 13% reduction in VMT for residential and office/commercial non-retail land uses and a net zero (0) increase in regional VMT for commercial retail land uses.

The City's adopted thresholds for development projects correspond to the regional averages modeled by Fresno COG's ABM. For residential and office development projects, the adopted threshold of significance is a 13% reduction, which means that projects that generate VMT in excess of a 13% reduction from the existing regional VMT per capita or per employee would have a significant environmental impact. Projects that reduce VMT by 13% or more are less than significant. The adopted threshold for all other land use types that don't require a General Plan Amendment or Zone Change is no net increase in VMT per employee. The adopted threshold for retail projects is any net increase in Regional VMT compared to the existing Regional VMT. Quantitative assessments of the VMT generated by a development project are determined using the COG ABM, which is a tour-based model.

For mixed use projects, the City of Clovis *Transportation Impact Analysis Guidelines* state that the VMT can be estimated based on each component of the project, independently, after taking credit for internal trip

capture. It also confirms that mixed use projects must use the Fresno COG's Activity Based Model. The VMT per capita (for the residential component) and the total VMT (for the retail component) is then compared against the relevant threshold.

The target VMT for residential and commercial non-retail land uses are (16.1 X (1-.13) = 14.0) 14.0 VMT per capita and (25.6 X (1-.13) = 22.3) 22.3 VMT per employee, respectively. The target VMT for all other type of land uses that are consistent with the General Plan is 25.6 VMT per employee. The threshold for retail land uses is a net zero (0) increase in Regional VMT for retail land uses (City of Clovis, 2020).

Projects that are consistent with the General Plan and do not meet a VMT Screening Criteria would be required to identify feasible VMT mitigation measures. If it cannot be demonstrated that mitigation would reduce VMT of the proposed Project below the applicable threshold, then a significant and unavoidable impact would be reported. Section 4.2.2.3 of the City of Clovis *Transportation Impact Analysis Guidelines* states that significant and unavoidable VMT impacts associated with City of Clovis *General Plan* development have already been disclosed. Thus, the Project can tier off of the Clovis General Plan SEIR with a Mitigated Negative Declaration (MND) with VMT mitigation.

## VMT Results

Table I summarizes the VMT results for the Project derived from the Fresno COG ABM. Per the Fresno COG ABM, the Project results in an output of 51.6 VMT per Capita which is greater than the threshold of 14.0 VMT per Capita. Exhibit B presents the Project VMT output from the Fresno COG ABM.

### Table I: VMT Results Prior to Mitigation

| *Project Components* | *Fresno COG Results[1]* | *City of Clovis VMT Threshold[2]* | *Above VMT Threshold?* |
|---|---|---|---|
| Residential | 51.6 | 14.0 | Yes |

Note: 1 = VMT Results from Fresno COG ABM Output.
2 = VMT Threshold per City of Clovis *Transportation Impact Analysis Guidelines*.

## VMT Mitigation

The VMT mitigation measures considered for this Project include those appropriate for the respective land use as noted in the City of Clovis *Transportation Impact Analysis Guidelines*. Exhibit C presents a summary of the VMT reduction associated with each mitigation measure utilized in this Report. The selected VMT reduction rates appropriate for the Project were based on the *Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity* published by the California Air Pollution Control Officers Association (CAPCOA). The mitigation measure found feasible is Increase Residential Density (T-1). As can be seen in Table II, the mitigation measure results in a reduction of 3.1 VMT per Capita. After the application of the mitigation measure, the Project is projected to have a VMT per Capita of 48.5. In conclusion, despite the reductions from the feasible VMT mitigation measure, the Project is projected to result in a significant but unavoidable VMT impact. Section 4.2.2.3 of the Clovis Transportation Impact Analysis Guidelines states that significant and unavoidable VMT impacts associated with City of Clovis *General Plan* development have already been disclosed. Considering the Project is consistent with the City of Clovis *General Plan*, the significant and unavoidable VMT impacts have been disclosed. Thus, the Project can tier off the Clovis General Plan SEIR with an MND with VMT mitigation.

**Table II: VMT Mitigation**

| *Project Components* | *Fresno COG Results[1]* | *Reduction from VMT Mitigation[2]* | *VMT After Mitigation* | *City of Clovis VMT Threshold[2]* | *Above VMT Threshold?* |
|---|---|---|---|---|---|
| Residential | 51.6 | 3.1 | 48.5 | 14.0 | Yes |

Note: 1 = VMT Results from Kittelson & Associates per Fresno COG ABM.
2 = VMT Thresholds and Mitigations per City of Clovis *Transportation Impact Analysis Guidelines*.

## Conclusion

Conclusions regarding the VMT Analysis of the proposed Project are provided below.

- Per the Fresno COG VMT Analysis output, the Project is projected to result in a VMT per Capita of 51.6 prior to mitigation.
- The mitigation measure found feasible is Increase Residential Density (T-1).
- After the implementation of feasible mitigations measure, the Project's VMT per Capita would be reduced by 3.1. Therefore, the Project is projected to yield 48.5 VMT per Capita.
- The City of Clovis threshold for residential projects is 14.0 VMT per Capita.
- Therefore, the Project is projected to result in significant but unavoidable VMT impacts.
- The Project is consistent with the City of Clovis *General Plan*.
- Since significant and unavoidable VMT impacts associated with City of Clovis *General Plan* development have already been disclosed, the Project, which includes the VMT mitigation measure presented within this report, can be processed with an MND.

# Study Participants

**JLB Traffic Engineering, Inc. Personnel:**

| | |
|---|---|
| Jose Luis Benavides, PE, TE | Project Manager |
| Matthew Arndt, EIT | Engineer I/II |
| Christian Sanchez, EIT | Engineer I/II |
| Adrian Benavides | Engineering Aide |
| Carlos Topete | Engineering Aide |
| Dennis Wynn | Sr. Engineering Technician |

**Persons Consulted:**

| | |
|---|---|
| John Bonadelle | Bonadelle Neighborhoods |
| Trent Walker | Bonadelle Neighborhoods |
| Sean Smith, PE | City of Clovis |
| Mike Aronson, PE | Kittleson & Associates |

# References

California Air Pollution Control Officers Association. 2021. "Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Health and Equity". Sacramento: State of California.

Caltrans. 2020. "Vehicle Miles Traveled-Focused Transportation Impact Study Guide". Sacramento: State of California.

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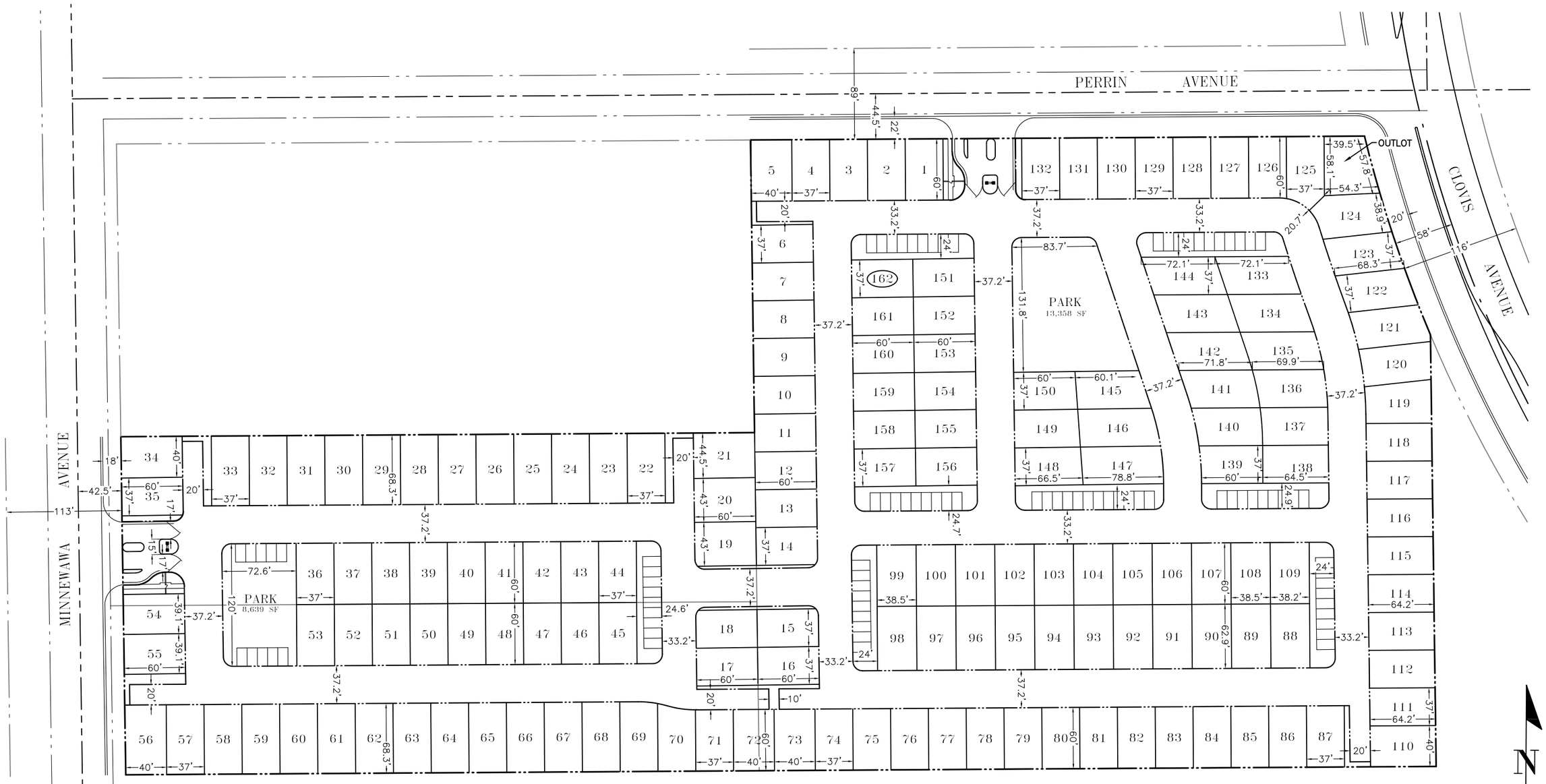
# Exhibit A: Project Site Plan




SCALE: 1" = 100'

*SITE INFO*

*37' X 60' LOTS*
*14.57 GROSS AC*
*13.95 NET AC*
*162 LOTS*
*DENSITY: 11.61 U/AC*
*87 PARKING STALLS*
*MAXIMUM LOTS:*
*MEDIUM – 7.0 DU/AC * 4.71 NET AC = 32.97 DU*
*MEDIUM–HIGH – 15 DU/AC * 9.24 NET AC = 138.60 DU*
*TOTAL DU ALLOWED = (32.97+138.6) = 171 LOTS*

# LAYOUT 5 - 37'x60' LOTS
# WITH PASEO CORNER

8-14-23

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*Civil Engineers*
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# Exhibit B: Fresno COG ABM Output

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# MEMORANDUM

December 1, 2023

Project #: 29745

To: Mr. Jose Luis Benavides, P.E., President
JLB Traffic Engineering, Inc.
516 W. Shaw Ave., Suite 103
Fresno CA 93704

CC: Matt Arndt, JLB

From: Mike Aronson, P.E.

RE: Clovis Perrin Residential VMT

Kittelson & Associates, Inc. (Kittelson) has applied the Fresno activity-based travel model to evaluate vehicle-miles of travel (VMT) associated with proposed single-family residential project located on the southwest corner of Clovis Avenue and Perrin Avenue in the City of Clovis. The project will include approximately 162 single family residential units. A new TAZ 2856 was created for the 162 single-family units.

## Project VMT

The VMT associated with the proposed project is listed in Table 1. The VMT per employee for the project of 51.6 (16.3 internal, 35.3 external) would exceed the impact threshold, based on 13 percent below the regional average, by 268 percent.

*Table 1: Clovis Perrin Residential Project VMT*

| | Per Capita | Per Employee |
|---|---|---|
| Project VMT from 2019 Model | 47.8 | n/a |
| Adjustment for New/Old Model | 1.08 | n/a |
| Project VMT | **51.6** | n/a |

# Exhibit C: VMT Mitigations

# Clovis and Perrin Subdivision VMT Analysis

| | |
|---|---|
| **TAZ:** | **1404** |
| Land Use: | Residential |
| Fresno COG VMT Output: | 51.6 |
| *City of Clovis VMT Threshold:* | *14.0* |
| % deviation from target threshold: | 72.8% |

| Measure | VMT Mitigation | Maximum Reduction | VMT Reduction (%) |
|---|---|---|---|
| ***Project/Site Scale*** | | | |
| *Land Use* | | | |
| T-1 | Increase Residential Density | 30.0% | 6.1% |
| T-2 | Increase Job Density | 30.0% | 0.0% |
| T-3 | Provide Transit-Oriented Development | 31.0% | 0.0% |
| T-4 | Integrate Affordable and Below Market Rate Housing | 28.6% | 0.0% |
| | Combined Land Use | 65.0% | 6.1% |
| *Trip Reduction Programs* | | | |
| T-5 | Implement CTR Program (Voluntary) | 4.0% | 0.0% |
| T-6 | Implement CTR Program (Mandatory and Monitoring) | 26.0% | 0.0% |
| T-7 | Implement CTR Marketing | 4.0% | 0.0% |
| T-8 | Provide Ridesharing Program | 8.0% | 0.0% |
| T-9 | Implement Subsidized or Discounted Transit Program | 5.5% | 0.0% |
| T-10 | Provide End-of-Trip Bicycle Facilities | 4.4% | 0.0% |
| T-11 | Provide Employer-Sponsored Vanpool | 20.4% | 0.0% |
| T-12 | Price Workplace Parking | 20.0% | 0.0% |
| T-13 | Implement Employee Parking Cash-Out | 12.0% | 0.0% |
| | Combined Trip Reduction Programs | 45.0% | 0.0% |
| *Parking or Road Pricing/Management* | | | |
| T-14 | Provide Electric Vehicle Charging Infrastructure | 11.9% | 0.0% |
| T-15 | Limit Residential Parking Supply | 13.7% | 0.0% |
| T-16 | Unbundle Residential Parking Costs from Property Costs | 15.7% | 0.0% |
| | Combined Parking or Road Pricing/Management | 35.0% | 0.0% |
| | ***Combined Project/Site Scale Mitigations*** | ***70.0%*** | ***6.1%*** |
| ***Plan/Community Scale*** | | | |
| *Land Use* | | | |
| T-17 | Improve Street Connectivity | 30.0% | 0.0% |
| *Neighborhood Design* | | | |
| T-18 | Provide Pedestrian Network Improvement | 6.4% | 0.0% |
| T-19-A | Construct or Improve Bike Facility | 0.8% | 0.0% |
| T-19-B | Construct or Improve Bike Boulevard | 0.2% | 0.0% |
| T-20 | Expand Bikeway Network | 0.5% | 0.0% |
| T-21-A | Implement Conventional Carshare Program | 0.15% | 0.0% |
| T-21-B | Implement Electric Carshare Program | 0.18% | 0.0% |
| T-22-A | Implement Pedal (Non-Electric) Bikeshare Program | 0.02% | 0.0% |
| T-22-B | Implement Electric Bikeshare Program | 0.06% | 0.0% |

| | | | |
|---|---|---|---|
| T-22-C | Implement Implement Scootershare Program | 0.7% | 0.0% |
| | Combined Neighborhood Design | 10.0% | 0.0% |
| | *Trip Reduction Programs* | | |
| T-23 | Provide Community-Based Travel Planning | 2.3% | 0.0% |
| | *Parking Or Road Pricing/Management* | | |
| T-24 | Implement Market Price Public Parking (On-Street) | 30.0% | 0.0% |
| | *Transit* | | |
| T-25 | Extend Transit Network Coverage or Hours | 4.6% | 0.0% |
| T-26 | Increase Transit Service Frequency | 11.3% | 0.0% |
| T-27 | Implement Transit-Supportive Roadway Treatments | 0.6% | 0.0% |
| T-28 | Provide Bus Rapid Transit | 13.8% | 0.0% |
| T-29 | Reduce Transit Fares | 1.2% | 0.0% |
| | Combined Transit | 15.0% | 0.0% |
| | ***Combined Project/Site Scale Mitigations*** | ***70.0%*** | ***0.0%*** |
| | ***Clean Vehicles and Fuels*** | | |
| T-30 | Use Cleaner-Fuel Vehicles | N/A | N/A |
| | ***VMT Mitigation Calculations*** | | |
| | **TAZ:** | | **1404** |
| | Land Use: | | Residential |
| | Fresno COG VMT Output: | | 51.6 |
| | Mitigation VMT Reduction: | | -3.1 |
| | Project VMT after Mitigations: | | 48.5 |
| | City of Clovis VMT Threshold: | | 14.01 |
| | **Target VMT Satisfied?** | | **FALSE** |